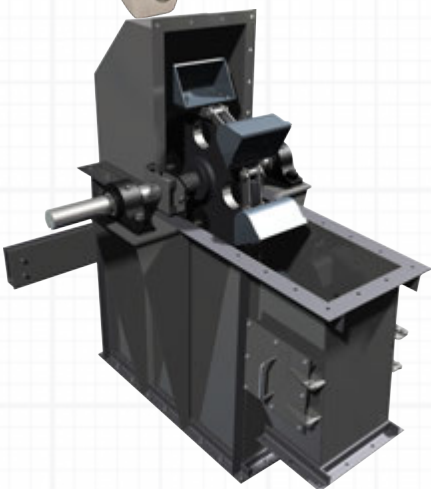
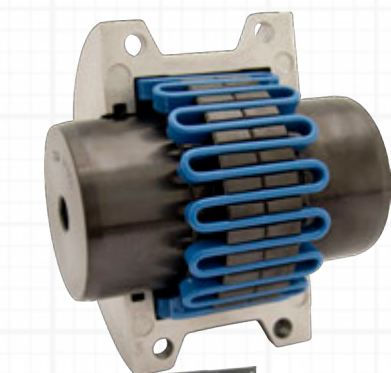


Martin **BIG CATALOG**

Power Transmission
Material Handling
Conveyor Pulleys
Idlers
Industrial Hand Tools
Body & Fender Tools
Engineering Information



Martin Catalog Updates



SECTION A - SPECIALITY PRODUCTS

- Updated content and new look

SECTION B - INTERCHANGEABLE BUSHINGS

- Updated content and new look

SECTION C - COUPLINGS

- Updated content and new look
- New Blue-Flex® Grid Coupling (C-33 — C47)

SECTION F - ENGINEERING CLASS SPROCKETS

- Updated content and new look

SECTION H - MATERIAL HANDLING

- Updated content and new look
- New Bucket Elevator Section (H-122 — H-151)
 - » Completely new pages with additional information
 - » Updated drawings and detailed renders
 - » Additional Component Information: Head Platforms, Ladders, Sprockets, Traction Wheels, Steel Buckets, Pulleys, and Take-Up Frame

SECTION J - INDUSTRIAL HAND TOOLS

- Updated content and new look
- New Tools:
 - » Adjustable Auto Wrench (J-19)
 - » Light Weight Dinging Hammer (J-90)

SECTION K - SYNCHRONOUS DRIVES

- Updated content and new look

SECTION L - PLASTICS

- Updated content and new look

SECTION M - CONVEYOR PULLEYS

- Updated content and new look
- New *Martin* Elite Series Conveyor Pulley (M-5 — M-29)
- New Engineered Class Pulley Section (M-89 — M-95)
 - » Completely new pages with additional information
 - » Including information on our Clean Flight® Wing Pulley and Data Sheet
 - » Additional Component Information: Shafting and Take-Up Frames

SECTION N - IDLERS

- New product line
 - » Complete line of CEMA C, D & E Idlers

SPECIALTY PRODUCTS

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Made To Order Specialty Products

Martin



SPLIT S820 SPROCKET



**TAPER BUSHED
ADJUSTABLE HUB**



**SPECIAL BEARING
HOUSING**

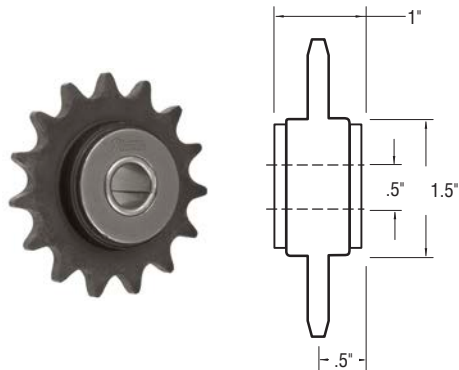


Martin Semi-Steel 800 Series Conveyor Sprockets
are Available for All your Flat Top Chain Needs.

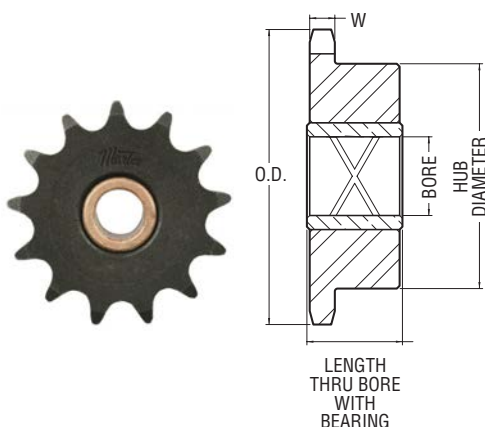


The Most Complete Line of
Idler Sprockets.

Bronze Bushed Type



Bronze Bearing Type



Bronze Bushed Idler Sprocket

No. Teeth	Catalog Number	Chain Size	O.D	Stock Bore	LTB without Bearing	Wt. Lbs.
20	31E20	35	2.6	.5	.75	.46
15	41E15	41-40	2.65	.5	.75	.5
15	51E15	50	3.32	.5	.75	.7
14	61E14	60-60H	3.74	.5	.75	.92

Above idlers have oil impregnated sintered bronze bearings and are mounted on steel journals. Idler RPM to 2500. Radial load rating to 50 pounds.

Bronze Bearing Idler Sprocket

No. Teeth	Catalog Number	Bearing Type	Chain Size	O.D	Stock Bore	LTB without Bearing	LTB with Bearing	W	Hub Dia.	Wt. Lbs.
5	35BR15 1/2	Bronze	35	1.99	.5	.75	.94	.168	1.35	.30
21	35BR21 7/8	Bronze	35	2.71	.875	.88	1.06	.168	2	.75
13	41BR13 1/2	Bronze	41	2.33	.5	.88	.94	.227	1.56	.50
19	41BR19 7/8	Bronze	41	3.29	.875	1	1.06	.227	2.5	1
13	40BR13 1/2	Bronze	40	2.33	.5	.88	.94	.284	1.56	.50
19	40BR19 7/8	Bronze	40	3.29	.875	1	1.06	.284	2.5	1.25
13	50BR13 1/2	Bronze	50	2.91	.5	.88	.94	.343	1.87	.90
17	50BR17 7/8	Bronze	50	3.72	.875	1	1.06	.343	2.62	1.50
15	60BR15 7/8	Bronze	60	3.98	.875	1	1.06	.459	2.62	1.75
17	60BR17 1 1/8	Bronze	60	4.46	1.125	1.25	1.56	.459	3.25	2.75
15	80BR15 1 1/8	Bronze	80	5.3	1.125	1.50	1.56	.575	3.5	4.25

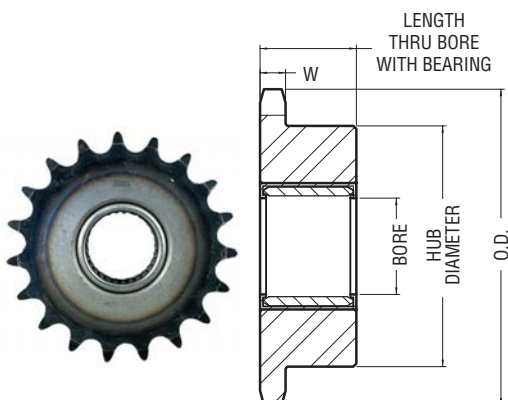
.875" & 1.125" bore have double loop grease groove.

Radial Load Capacity in Pounds at Various Speeds Needle Bearings

Idler Size	RPM					
	100	500	1000	1500	2000	2500
.5 Bore	1021	630	512	453	416	389
1 Bore	2751	1698	1379	1221	1120	1048
1.5 Bore	6306	3891	3160	2798	2567	-

Ratings shown above are based on an average bearing life of 2500 hours.

Needle Bearing Type



Needle Bearing Idler Sprocket

No. Teeth	Catalog Number	Bearing Type	Chain Size	O.D	Stock Bore	LTB without Bearing	LTB with Bearing	W	Hub Dia.	Wt. Lbs.
19	25NB19H 1/2	Needle	25	1.65	.5	.75	.75	.11	1.22	.1
13	35NB13H 1/2	Needle	35	1.75	.5	.75	.75	.168	1.18	.2
19	35NB19H 1	Needle	35	2.47	1	1	1	.168	1.84	.5
19	41NB19H 1	Needle	41	3.29	1	1	1	.227	2.5	1
19	40NB19H 1	Needle	40	3.29	1	1	1	.284	2.5	1.1
17	50NB17H 1	Needle	50	3.72	1	1	1	.343	2.25	1.3
17	60NB17H 1	Needle	60	4.46	1	1	1	.459	3	2.6
13	80NB13H 1	Needle	80	4.66	1	1.25	1.25	.575	2.63	2.9
11	100NB11H 1 1/2	Needle	100	5.01	1.5	1.88	1.88	.692	3.56	3.6
11	120NB11H 1 1/2	Needle	120	6.01	1.5	2.13	2.13	.924	3.56	7
11	140NB11H 1 1/2	Needle	140	7.01	1.5	2.25	2.25	.924	4.25	1.9
9	160NB9H 1 1/2	Needle	160	6.7	1.5	2.25	2.25	1.156	3.63	9.6

Idler Sprockets



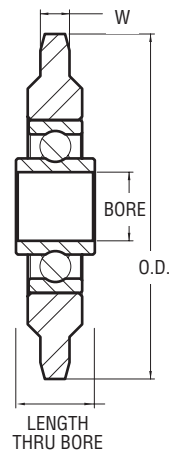
Ball Bearing Idler Sprocket – Hardened Teeth

No. Teeth	Discontinued Part Number	Catalog Number	Bearing Type	Chain Size	O.D.	Stock Bore	LTB without Bearing	LTB with Bearing	W	Wt. Lbs.
20		25BB20 3/8 *	Ball	25	1.73	.394	.11	.35	.11	.1
19		35BB19H 3/8	Ball	35	2.47	.394	.38	.38	.168	.35
19		35BB19H 1/2	Ball	35	2.47	.51	.48	.72	.168	.35
20	35BB20H	35BB20H 5/8	Ball	35	2.59	.638	.48	.72	.168	.38
18		41BB18H 1/2	Ball	41	3.14	.51	.48	.72	.227	.51
18		41BB18H 5/8	Ball	41	3.14	.638	.48	.72	.227	.51
17	40BB17H	40BB17H 5/8	Ball	40	2.97	.638	.48	.72	.284	.52
18		40BB18H 1/2	Ball	40	3.14	.51	.48	.72	.284	.53
18	40BB18H	40BB18H 5/8	Ball	40	3.14	.638	.48	.72	.284	.53
25		40BB25H 5/8	Ball	40	4.26	.638	.48	.72	.284	.9
35		40BB35H 5/8	Ball	40	5.86	.638	.48	.72	.284	1.77
48		40BB48H 5/8	Ball	40	7.93	.638	.22	.72	.284	3.37
15	50BB15H	50BB15H 5/8	Ball	50	3.32	.638	.48	.72	.343	.75
17		50BB17H 1/2	Ball	50	3.72	.51	.48	.72	.343	.78
17	50BB17H	50BB17H 5/8	Ball	50	3.72	.638	.48	.72	.343	.78
25		50BB25H 3/4	Ball	50	5.32	.75	.59	.61	.343	1.66
39		50BB39H 3/4	Ball	50	8.12	.75	.32	.61	.343	4.09
12		60BB12H 5/8	Ball	60	3.25	.638		.72	.459	.72
13	60BB13H	60BB13H 5/8	Ball	60	3.49	.638	.48	.72	.459	.76
15		60BB15H 1/2	Ball	60	3.98	.51		.72	.459	1.06
15	60BB15H	60BB15H 5/8	Ball	60	3.98	.638	.48	.72	.459	1.06
17		60BB17H 5/8	Ball	60	4.46	.638	.48	.72	.459	1.1
12	80BB12H	80BB12H 3/4	Ball	80	4.33	.75	.59	.61	.575	1.5

Note: .394 Stock Bore is +.000 .0003; .510 Stock Bore is +.005 .000; .638 Stock Bore is +.005 .000; .750 Stock Bore is +.005 .000. Discontinued Part Numbers will be replaced with Catalog Number when existing inventory is exhausted.

* Unhardened Teeth

Ball Bearing Type

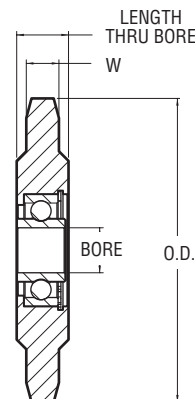


Ball Bearing Idler Sprockets – Non Metallic Teeth

No. Teeth	Catalog Number	Bearing Type	Chain Size	O.D.	Stock Bore	LTB without Bearing	LTB with Bearing	W	Wt. Lbs.
17	40BB17NM 1/2	Ball	40	2.97	.510	0.72	.72	.284	.24
18	40BB18NM 5/8	Ball	40	3.14	.638	0.72	.72	.284	.23
17	50BB17NM 1/2	Ball	50	3.72	.510	0.72	.72	.343	.29
18	50BB18NM 5/8	Ball	50	3.92	.638	0.72	.72	.343	.29
15	60BB15NM 1/2	Ball	60	3.98	.510	0.72	.72	.459	.32
16	60BB16NM 5/8	Ball	60	4.22	.638	0.72	.72	.459	.33
12	80BB12NM 3/4	Ball	80	4.33	.750	0.96	.61	.575	.44

Note: .510 Stock Bore is +.005 .000; .638 Stock Bore is +.005 .000; .750 Stock Bore is +.005 .000

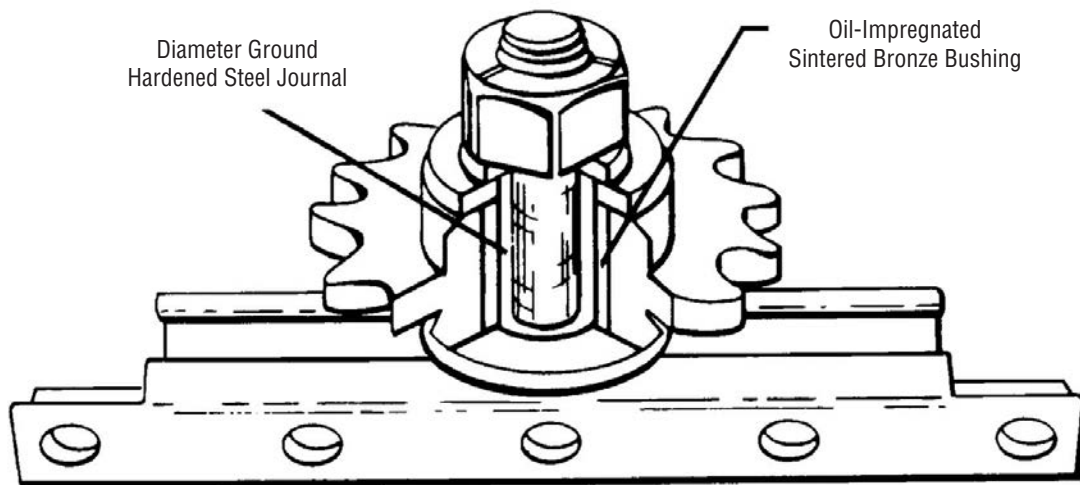
Non-Metallic Teeth Ball Bearing Type



Radial Load Capacity in Pounds at Various Speeds Ball Bearings

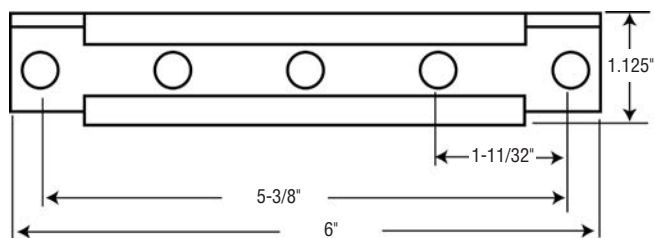
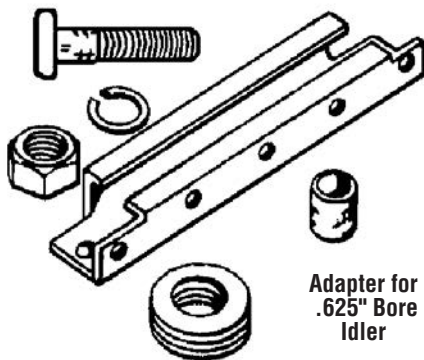
Idler Size	RPM					
	100	500	1000	1500	2000	2500
.375" Bore	620	363	288	252	229	212
.5" & .625" Bore	800	460	360	320	290	270
.75" Bore	1290	755	600	523	478	440

Ratings shown above are based on an average bearing life of 2500 hours.

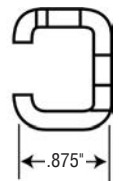


Chain Tightener (Less Idler Sprocket)

No. E-5006



Attachment Bolts Not
Furnished



Attachments Holes
for 5/16" Bolts

Martin Chain Tighteners are economical to use . . . they provide everything needed for a quick, easy installation . . . they save time and money . . . there is no need to design, procure or custom make and assemble separate parts . . . they accommodate mounting in several different positions . . . parallel or at 90° to the mounting surface . . . as cantilever or attached each end.

Features of *Martin* Idlers

Smooth-running, oil-impregnated, sintered bronze, extra-duty bearing press-fitted in sprocket. Steel journal case hardened . . . for maximum resistance to wear . . . diameter ground surface for free running under load.

Steel sprockets used in *Martin* Idlers . . . are accurately machined (not stamped) the same as sprockets normally supplied for power transmission use.

800 Series Conveyor Sprockets

Martin Series 800 Conveyor Sprockets Manufactured From High Quality Semi-Steel



**815 Solid Face
with Guide Ring Holes
for Straight Running Chains**

**THE NEW
"QRS®"
SPLIT**



PAT. # 4,964,842

**Split
81.62520 Solid and Grooved Face
with Guide Ring Holes
Steel and Thermoplastic**



**820 Grooved Face for
Straight Running Chain**



**821 Heavy Duty
for Wide Hinged Chain
Straight Running**



**880 and 882 Single Duty
for Side Flex Chains**



881 for Side Flex Chain

815, 820, and 881 sprockets are all double duty. Sprockets with an odd number of teeth are recommended to reduce wear since a given tooth engages the chain every other revolution. Sprockets with 19, 21, 23, and 25 teeth are preferred. Sprockets with even number of teeth should be advanced one tooth periodically to attain even wear.

Martin "QRS"[®] Split Sprocket

Series 81.62520 Split Sprockets for Flat Top Conveyor Chains

Split Sprockets Manufactured
from Steel and Thermoplastic Material
Stocked in 21, 23, 25, and 27 Tooth Sizes

Martin's **Quick Replacement Split Sprocket** eliminates the time-consuming and costly dismounting of shafts and pillow blocks to remove worn sprockets — all that's required is a wrench

"QRS" Split Thermoplastic Sprocket Advantages:
Lightweight — Service Temp. to 300°F — Low Temp. Toughness
— Excellent Resistance to Oils, Grease, Soaps, and Detergents
— Outstanding Abrasion and Impact Resistance

Available with solid and grooved face
and furnished with rust resistant plated steel bolts and nuts

Split (plated carbon steel and stainless) Guide Rings
available, if necessary, for easy assembly



Split Steel and Thermoplastic Stock Bore



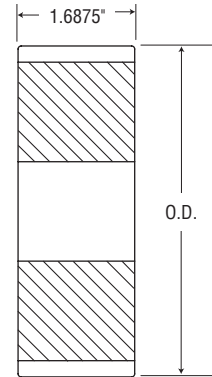
Series 815 Sprockets — Split Steel

Catalog Number	No. Teeth		Pitch Diameter †	Outside Diameter †	Bore †		Weight ††
	Actual	Effective			Stock	Maximum	
QRS815A21	21	10.5	5.089 (129.26)	5.12 (130.0)	.75 (19.1)	1.5 (38.1)	5.0 (2.27)
QRS815A23	23	11.5	5.560 (141.22)	5.59 (142.0)	.75 (19.1)	1.5 (38.1)	5.6 (2.54)
QRS815A25	25	12.5	6.032 (153.21)	6.07 (154.2)	.75 (19.1)	1.5 (38.1)	6.6 (3.0)
QRS815A27	27	13.5	6.504 (165.20)	6.56 (166.6)	.75 (19.1)	1.5 (38.1)	7.8 (3.54)

Supplied with 5/16 -18 standard setscrew @ 90° to split.

† Inches (mm)

†† Lbs (kg)



Solid Face

Series 815 Sprockets — Split Thermoplastic

Catalog Number	No. Teeth		Pitch Diameter †	Outside Diameter †	Bore †		Weight ††
	Actual	Effective			Stock	Maximum	
QRS815A21P	21	10.5	5.089 (129.26)	5.12 (130.0)	.75 (19.1)	1.5 (38.1)	.94 (.43)
QRS815A23P	23	11.5	5.560 (141.22)	5.59 (142.0)	.75 (19.1)	1.5 (38.1)	1.00 (.45)
QRS815A25P	25	12.5	6.032 (153.21)	6.07 (154.2)	.75 (19.1)	1.5 (38.1)	1.10 (.50)
QRS815A27P	27	13.5	6.504 (165.20)	6.56 (166.6)	.75 (19.1)	1.5 (38.1)	1.25 (.57)

Thermoplastic temperature operating range -20°F to +300°F

Supplied with 5/16 -18 standard setscrew @ 90° to split.

† Inches (mm)

†† Lbs (kg)



Series 820 Sprockets — Split Steel

Catalog Number	No. Teeth		Pitch Diameter †	Outside Diameter †	Bore †		Weight ††
	Actual	Effective			Stock	Maximum	
QRS820A21	21	10.5	5.089 (129.26)	5.12 (130.0)	.75 (19.1)	1.5 (38.1)	5.0 (2.27)
QRS820A23	23	11.5	5.560 (141.22)	5.59 (142.0)	.75 (19.1)	1.5 (38.1)	5.6 (2.54)
QRS820A25	25	12.5	6.032 (153.21)	6.07 (154.2)	.75 (19.1)	1.5 (38.1)	6.6 (3.0)
QRS820A27	27	13.5	6.504 (165.20)	6.56 (166.6)	.75 (19.1)	1.5 (38.1)	7.8 (3.54)

Supplied with 5/16-18 standard setscrew @ 90° to split.

† Inches (mm)

†† Lbs (kg)



PAT. # 4,964,842

Series 820 Sprockets — Split Thermoplastic

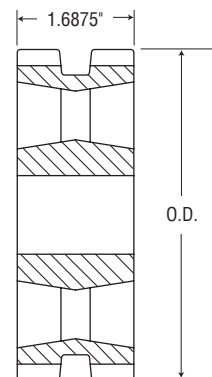
Catalog Number	No. Teeth		Pitch Diameter †	Outside Diameter †	Bore †		Weight ††
	Actual	Effective			Stock	Maximum	
QRS820A21P	21	10.5	5.089 (129.26)	5.12 (130.0)	.75 (19.1)	1.5 (38.1)	.94 (.43)
QRS820A23P	23	11.5	5.560 (141.22)	5.59 (142.0)	.75 (19.1)	1.5 (38.1)	1.00 (.45)
QRS820A25P	25	12.5	6.032 (153.21)	6.07 (154.2)	.75 (19.1)	1.5 (38.1)	1.10 (.50)
QRS820A27P	27	13.5	6.504 (165.20)	6.56 (166.6)	.75 (19.1)	1.5 (38.1)	1.25 (.57)

Thermoplastic temperature operating range -20°F to +300°F

Supplied with 5/16 -18 standard setscrew @ 90° to split.

† Inches (mm)

†† Lbs (kg)



Grooved Face

For Guide Ring Specifications See page A-12.

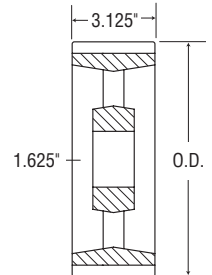
Series 821 Sprockets — Semi-Steel — Stock Bore

Catalog Number	No. Teeth		Pitch Diameter †	Outside Diameter †	Bore †		Weight ††
	Actual	Effective			Stock	Maximum	
821A21	21	10.5	5.089 (129.26)	5.12 (130.0)	1 (25.4)	1.75 (44.5)	6.7 (3.0)
821A23	23	11.5	5.560 (141.22)	5.59 (142.0)	1 (25.4)	1.75 (44.5)	7 (3.2)
821A25	25	12.5	6.032 (153.21)	6.07 (154.2)	1 (25.4)	1.75 (44.5)	7.3 (3.3)
821A27	27	13.5	6.504 (165.20)	6.56 (166.6)	1 (25.4)	1.75 (44.5)	7.6 (3.4)
821A29	29	14.5	6.978 (177.24)	7.05 (179.1)	1 (25.4)	1.75 (44.5)	8.0 (3.6)

† Inches (mm)

†† Lbs (kg)

821 Series also runs with 815 H chain.



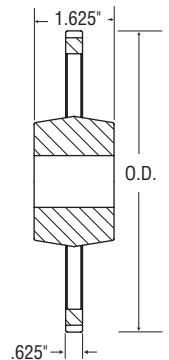
Series 880 Sprockets — Semi-Steel — Stock Bore

Catalog Number	No. Teeth		Pitch Diameter †	Outside Diameter †	Bore †		Weight ††
	Actual	Effective			Stock	Maximum	
880C9 •	9	9	4.386 (111.40)	4.33 (110.0)	.75 (19.1)	1.75 (44.5)	2.8 (1.3)
880C10	10	10	4.854 (123.29)	4.82 (122.4)	.75 (19.1)	1.75 (44.5)	3.2 (1.4)
880C11	11	11	5.324 (135.22)	5.31 (134.9)	.75 (19.1)	1.75 (44.5)	3.4 (1.5)
880C12	12	12	5.796 (147.22)	5.80 (147.3)	.75 (19.1)	1.75 (44.5)	3.6 (1.6)
880C15	15	15	7.215 (182.26)	7.26 (184.4)	.75 (19.1)	1.75 (44.5)	4.2 (1.9)

• Block Body – Other sizes are arm body.

† Inches (mm)

†† Lbs (kg)

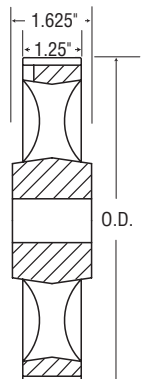


Series 881 Sprockets — Semi-Steel — Stock Bore

Catalog Number	No. Teeth		Pitch Diameter †	Outside Diameter †	Bore †		Weight ††
	Actual	Effective			Stock	Maximum	
881C21	21	10.5	5.089 (129.26)	5.120 (130.05)	.75 (19.1)	1.75 (44.5)	4.2 (1.9)
881C23	23	11.5	5.560 (141.22)	5.590 (141.99)	.75 (19.1)	1.75 (44.5)	4.6 (2.1)
881C25	25	12.5	6.032 (153.21)	6.070 (154.18)	.75 (19.1)	1.75 (44.5)	5.0 (2.3)

† Inches (mm)

†† Lbs (kg)



800 Series Conveyor Sprockets



Series 820 Sprockets — Semi-Steel — Stock Bore

Catalog Number	No. Teeth		Pitch Diameter †	Outside Diameter †	Bore †		Weight ††
	Actual	Effective			Stock	Maximum	
820A13B •	13	6.5	3.228 (81.99)	3.11 (79.0)	.75 (19.1)	1.25 (31.8)	2.4 (1.1)
820A15B •	15	7.5	3.688 (93.68)	3.63 (92.2)	.75 (19.1)	1.25 (31.8)	3.6 (1.6)
820A17B •	17	8.5	4.153 (105.49)	4.12 (104.7)	.75 (19.1)	1.6875 (42.9)	4.7 (2.1)
820A19	19	9.5	4.620 (117.35)	4.61 (117.1)	.75 (19.1)	1.25 (31.8)	3.1 (1.5)
820A20	20	10	4.854 (123.29)	4.86 (123.4)	.75 (19.1)	1.25 (31.8)	3.8 (1.7)
820A21	21	10.5	5.089 (129.26)	5.12 (130.0)	.75 (19.1)	1.75 (44.5)	4.6 (2.1)
820A21B •	21	10.5	5.089 (129.26)	5.12 (130.0)	.75 (19.1)	2.5 (63.5)	7.1 (3.3)
820A22	22	11	5.324 (135.23)	5.35 (135.9)	.75 (19.1)	1.75 (44.5)	4.2 (1.9)
820A23	23	11.5	5.560 (141.22)	5.59 (142.0)	.75 (19.1)	1.75 (44.5)	5.3 (2.4)
820A24	24	12	5.796 (147.22)	5.83 (148.1)	.75 (19.1)	1.75 (44.5)	4.4 (2.0)
820A25	25	12.5	6.032 (153.21)	6.07 (154.2)	.75 (19.1)	2 (50.8)	5.6 (2.4)
820A25B •	25	12.5	6.032 (153.21)	6.07 (154.2)	.75 (19.1)	3-3/16 (81.0)	9.6 (4.4)
820A27	27	13.5	6.504 (165.20)	6.56 (166.6)	.75 (19.1)	2 (50.8)	6.5 (2.8)
820A29	29	14.5	6.978 (177.24)	7.05 (179.1)	.75 (19.1)	2 (50.8)	6.8 (3.1)
820A31	31	15.5	7.452 (189.28)	7.53 (191.3)	.75 (19.1)	2 (50.8)	6.9 (3.1)
820A41	41	20.5	9.826 (249.58)	9.93 (252.2)	.75 (19.1)	2.5 (64)	16.00 (7.1)

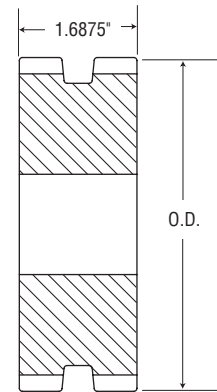
• Block Body — Other sizes are arm body.

† Inches (mm)

†† Lbs (kg)

Max. bore shown is with Standard Keyway and Setscrew.

820 Series stocked grooved. (Guide ring holes in 21, 23, 25, and 27 tooth sizes can be provided upon request).

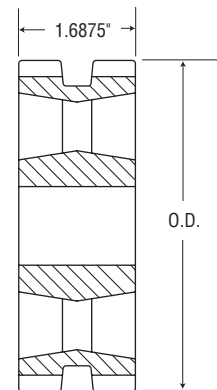


Steel

Series 820 Sprockets — Semi-Steel — Bored-to-Size

Catalog Number	Inch/Metric				
	Stock Finished Bores With Standard Keyway and Setscrew				
820BS19	1" (25.4)				
820BS21	1" (25.4)				
820BS23	.875" (22.2)	1" (25.4)	1.125" (28.6)	1.187" (30.2)	1.25" (31.8)
820BS25	1" (25.4)				
820BS27	1" (25.4)				

Stock grooved without guide ring holes. All arm body.



Cast

Series 815 Sprockets — Semi-Steel — Stock Bore

Catalog Number	No. Teeth		Pitch Diameter †	Outside Diameter †	Bore †		Weight ††
	Actual	Effective			Stock	Maximum	
815A13B •	13	6.5	3.228 (81.99)	3.11 (79.0)	.75 (19.1)	1.25 (31.8)	2.4 (1.1)
815A15B •	15	7.5	3.688 (93.68)	3.63 (92.2)	.75 (19.1)	1.25 (31.8)	3.6 (1.6)
815A17B •	17	8.5	4.153 (105.49)	4.12 (104.7)	.75 (19.1)	111/16 (42.9)	4.7 (2.1)
815A19	19	9.5	4.620 (117.35)	4.61 (117.1)	.75 (19.1)	1.25 (31.8)	3.1 (1.5)
815A20	20	10	4.854 (123.29)	4.86 (123.4)	.75 (19.1)	1.25 (31.8)	3.8 (1.7)
815A21	21	10.5	5.089 (129.26)	5.12 (130.0)	.75 (19.1)	1.75 (44.5)	4.6 (2.1)
815A21B •	21	10.5	5.089 (129.26)	5.12 (130.0)	.75 (19.1)	2.5 (63.5)	7.1 (3.3)
815A22	22	11	5.324 (135.23)	5.35 (135.9)	.75 (19.1)	1.75 (44.5)	4.2 (1.9)
815A23	23	11.5	5.560 (141.22)	5.59 (142.0)	.75 (19.1)	1.75 (44.5)	5.3 (2.4)
815A24	24	12	5.796 (147.22)	5.83 (148.1)	.75 (19.1)	1.75 (44.5)	4.4 (2.0)
815A25	25	12.5	6.032 (153.21)	6.07 (154.2)	.75 (19.1)	2 (50.8)	5.6 (2.4)
815A25B •	25	12.5	6.032 (153.21)	6.07 (154.2)	.75 (19.1)	3-3/16 (81.0)	9.6 (4.4)
815A27	27	13.5	6.504 (165.20)	6.56 (166.6)	.75 (19.1)	2 (50.8)	6.5 (2.8)
815A29	29	14.5	6.978 (177.24)	7.05 (179.1)	.75 (19.1)	2 (50.8)	6.8 (3.1)
815A31	31	15.5	7.452 (189.28)	7.53 (191.3)	.75 (19.1)	2 (50.8)	6.9 (3.1)
815A41	41	20.5	9.826 (249.58)	9.93 (252.2)	.75 (19.1)	2.5 (64)	16.00 (7.1)

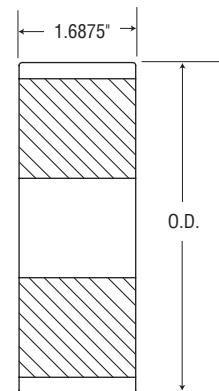
• Block Body — Other sizes are arm body.

† Inches (mm)

†† Lbs (kg)

Max. bore shown is with Standard Keyway and Setscrew.

815 Series stocked not grooved, with guide ring holes.

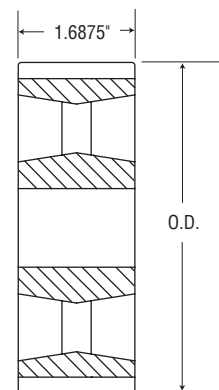


Steel

Series 815 Sprockets — Semi-Steel — Bored-to-Size

Catalog Number	Inch/Metric				
	Stock Finished Bores With Standard Keyway and Setscrew				
815BS19		1" (25.4)			
815BS21		1" (25.4)			
815BS23	.875" (22.2)	1" (25.4)	1.125" (28.6)	1.187" (30.2)	1.25" (31.8)
815BS25		1" (25.4)		1.187" (30.2)	1.25" (31.8)
815BS27		1" (25.4)			

Stock grooved without guide ring holes. All arm body.



Cast

Series 800 Conveyor Sprockets



Series 822 Sprockets — Stock Bore

Catalog Number	No. Teeth		Pitch Diameter †	Outside Diameter †	Bore †		Weight ††
	Actual	Effective			Stock	Maximum	
882C9	9	9	4.386 (111.40)	4.430 (112.5)	.75 (19.1)	1.75 (44.5)	3.8 (1.8)
882C10	10	10	4.854 (123.29)	4.920 (125.0)	.75 (19.1)	1.75 (44.5)	4.2 (1.9)
882C11	11	11	5.325 (135.25)	5.410 (137.40)	.75 (19.1)	1.75 (44.5)	4.4 (2.1)
882C12 •	12	12	5.796 (147.21)	5.90 (149.90)	.75 (19.1)	1.75 (44.5)	4.6 (2.2)

• Arm Body — Other sizes are block body.

† Inches (mm)

†† Lbs (kg)



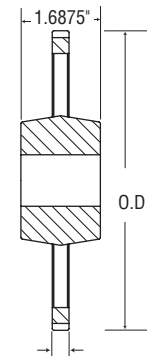
815 Guide Rings — Steel and Stainless Steel

Catalog Number ★	O.D. †	Thick †	Weight †† Per Set
GR15-16	3.62	1/16	.23
GR15-16SS	(91.9)	(1.6)	(.10)
GR17-18	4.11	1/16	.26
GR17-18SS	(104.4)	(1.6)	(.120)
GR19-20	4.58	1/8	.37
GR19-20SS	(116.3)	(3.2)	(.17)
GR21-22	5.09	1/8	.44
GR21-22SS	(129.3)	(3.2)	(.20)
GR23-24	5.56	1/8	.46
GR23-24SS	(141.2)	(3.2)	(.21)
GR25-26	6.04	1/8	.47
GR25-26SS	(153.4)	(3.2)	(.21)
GR27-28	6.53	1/8	.53
GR27-28SS	(165.9)	(3.2)	(.24)
GR29-30	7.02	1/8	.56
GR29-30SS	(178.3)	(3.2)	(.25)
GR31-32	7.50	1/8	.67
GR31-32SS	(190.5)	(3.2)	(.30)
GR41-42	9.89	1/8	.92
GR41-42SS	(251.2)	(3.2)	(.42)

★ Carbon Steel
Stainless Steel

† Inches (mm)

†† Lbs (kg)



Custom Capabilities Forgings

Martin Tool and Forge, located in Fort Worth, Texas, has been a leading supplier of quality American forged products since 1917. *Martin* forgings are well regarded for Quality, Innovation, Reliability & Cost Savings.

Know how garnered over many decades provides unsurpassed benefit for the industrial user of custom forgings. This includes all phases in the forging process - die design and engineering, forging, coining, heat treating, and polishing.

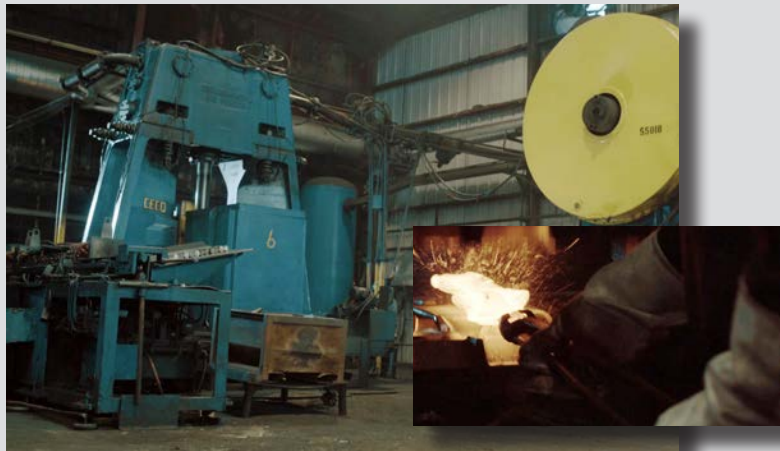
Hammers ranging in size from 1,000 to 5,000 pounds produce finished parts from a few ounces to 50 pounds. Various alloys, considerable capacity, and secondary machining capability enable *Martin* to deliver near 100% density requirements in a cost effective manner.

Manufacturing Capabilities

Martin utilizes **closed impression die forging** where two dies containing the impression of the shape are brought together deforming the metal. *Martin* provides two types of closed impression die forgings: **Hammer Forgings** and **Press Forgings**.

Hammer Forging

Forging on a hammer is carried out in a succession of die impressions using repeated blows. Hammer forging can work to nearer net shape with smaller forging allowance, therefore on high cost or difficult to machine alloys there can be significant advantages in the Hammer Forging process. Hammer forgings can usually produce larger and heavier parts than press forgings.



Press Forging

The stock is usually hit only once in each die impression. Increased deformation and control achieved through press forging will give the material better consistency of properties.



Material Capabilities

Hammers

Up to 20" length

Carbon Steel	.25 to 45 lb
Alloy Steel	.25 to 45 lb
Stainless Steel	.15 to 25 lb

Presses

Up to
12" diameter or 14" length

Carbon Steel	1.5 to 40 lb
Alloy Steel	1.5 to 40 lb
Stainless Steel	1.5 to 20 lb



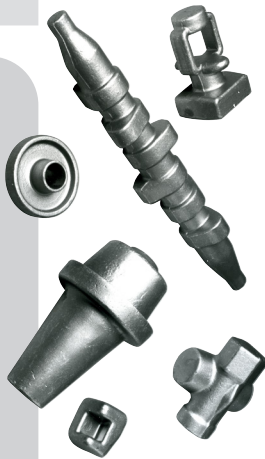
Secondary Operations

Other metalworking and inspection processes complement the forging of carbon, alloy and stainless steel components and parts.

- Heat Treatment
- Grinding, Polishing
- CNC Machining, Broaching
- Cleaning
- Magnetic Particle Inspection
- Plating or Coating
- Liquid Penetrant Inspection
- Coining

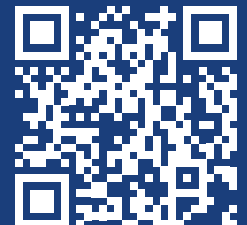
Benefits

- **High impact strength and structural integrity**
- Extremely **high consistency** of material and dimensions of parts
- **Higher strength to weight ratios** reduce both weight and size when close fit or weight issues are a factor
- Forging can produce **complex shapes** that otherwise may require multiple manufacturing processes
- Forged parts are **compatible with most secondary operations** such as heat treating, machining and fabrication
- In many cases **one forged part can be created where multiple parts were originally used**, reducing labor cost
- *Martin's* dedication to quality and service, is second to none



Case Study:

- Application:** Counter weight on unit handling equipment
- Problem:** Parts were being milled in-house from purchased burned plate. Process was expensive, but low volumes had prevented consideration of alternate methods of manufacture.
- Solution:** Instead of utilizing their expensive CNC milling equipment on relatively low-tech parts, *Martin* designed a simple die for a forged part, which worked well for medium quantity production runs. When compared to sourcing costs, production time, and scrap, the forged part was less expensive than the milled part. The real savings has resulted from the enhanced utilization of the CNC milling equipment for other, more profitable work



Watch the Forge & Foundry Video
scan QR code or visit: <http://bit.ly/Forge-Foundry>

Custom Capabilities Sintered Metal



Sintered Metal

Sintered metal is an excellent choice for a wide variety of products especially those with irregular shapes that would be difficult to manufacture using conventional methods.

Commonly associated with large quantity runs of fairly simple products, the sintered metal process also effectively addresses small quantities for many complex and multi-level parts where intricate machining or milling was required. Smooth surface finishes, self-lubrication, and tolerance repeatability are just a few of the attributes resulting from this technology. Using a wide range of alloys, *Martin* produces custom sintered parts for many industries and applications.

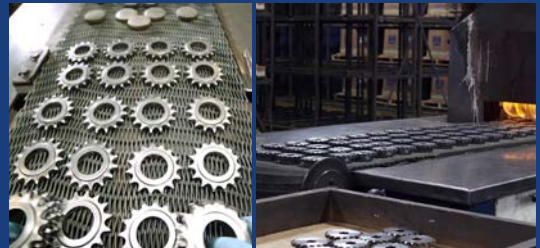
Advantages

- Superior resistance and performance
- Uniform tolerances
- High density
- Extremely smooth surface finish
- Self-lubricating
- 12% less weight than Steel

Manufacturing

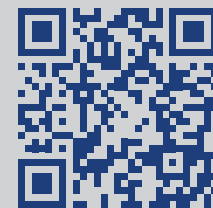
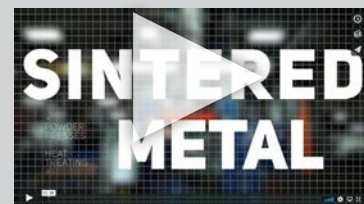
Martin Sintered Steel presses average 750 tons, and can press up to 2000 tons.

Presses delivering more than 880 tons of pressure form parts from bronze, iron, copper, manganese, etc.



Case Study:

- Application:** Timing plate on an agricultural implement
- Problem:** Production of parts required several steps and the use of several outside sources. All these factors led to inconsistent tolerances, difficulty in coordination of lead times, scrapped parts and production interruptions.
- Solution:** *Martin* reviewed sample parts and prints. *Martin* met with OEM engineering and service personnel to better understand the application. The *Martin* sintered component reduced the total cost of each part by an average of 54%, slashed acquisition costs and allowed for deliveries using staged release dates



Watch the
Sintered Metal Video

scan QR code or visit:
<http://bit.ly/SinteredMetal>

Foundry

Operating its own foundry enables *Martin* to provide its customers with quality assurance, quick lead times, and application engineering assistance on cast and ductile iron parts.

With an upper range of 96" in diameter and 10,000 pounds, our own pattern shop, and streamlined access to secondary machining, *Martin's* comprehensive capabilities serve a broad spectrum of industrial uses.



Case Study:

Application: Conveyor

Problem: Redesign of equipment required flywheel and synchronous drive to be used in more compact area. The two separate components had clearance problems.

Solution: *Martin* designed a one piece casting which allowed machining of a duplex drive to fit in tight area. Equipment is more compact, one final part rather than two saves costs, and installation time is reduced

FORGE & FOUNDRY

Watch the Forge & Foundry Video

scan QR code or visit: <http://bit.ly/Forge-Foundry>

Injection Molded Plastics

Since the inception of our line of injection molded plastic components, *Martin* has emerged as a leading supplier of cost effective non-metallic products.

A combination of polymers are used to achieve desired wear, corrosion resistance, and color characteristics. Injection molded plastic is also advantageous in non-sparking and sanitary applications.

While the final form of most components is achieved directly from the press, *Martin* is able to perform secondary machining on molded parts if necessary.



Case Study:

Application: Packaging equipment

Problem: A sticky product required cleaning with a caustic solution which led to corrosion based fatigue of a threaded collar. In addition, high maintenance costs in the field were encountered due to difficulty of replacing the seized collar.

Solution: A *Martin* manufactured part made of glass filled nylon was produced. The *Martin* part withstood constant exposure to the caustic solution and prevented the seizing of threads which provided a longer part life. Unit price was reduced by approximately 34%, warranty claims dropped significantly and the user logo stamped on the part aided in capturing replacement part sales

Custom Capabilities

Milled Plastics



Milled Plastics

Whether it is a simple alteration, rebore, or a product requiring secondary operations such as drilling, tapping, or inserts, *Martin's* trained and dedicated staff are standing ready to tackle your most demanding request.

Our CNC machines are able to mill a variety of plastic and non-metallic materials from 1/16" to over 8" thick, with diameters from 2" to 60" in a variety of unique shapes.

Additionally, secondary operations may be completed in-house when projects require both non-metallic and metallic components to complete one unit.

Martin manufactures parts from a variety of materials including Nylon, UHMW, Acetal and more. They can be solid construction or multiple pieces requiring secondary operations. One part or 1,000, count on *Martin* to provide you with quick turnaround times on all your Made-to-Order plastic parts.

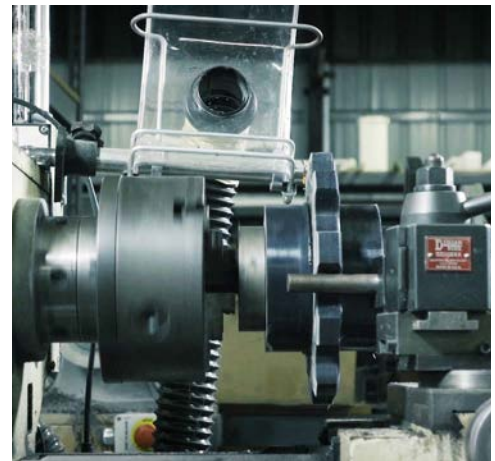


Case Study:

Application: Split bearing block made of UHMW found on the ends of an agitator that stirs a chemical treating solution in a beef processing plant. Thus the components are continuously submerged into a corrosive liquid

Problem: This agitator is an integral part of the streamlined processing at this facility, therefore it is necessary to have components readily on hand and available to keep it up and running. However, this customer was struggling to get the split bearing blocks from their current supplier in a timely manner.

Solution: Realizing an opportunity to service this end user, *Martin* was able to provide a quality component with a quick delivery at a lower price than the previous supplier. These split block bearings are used in many different industries and applications



Spin weld parts up to 12½" Diameter.

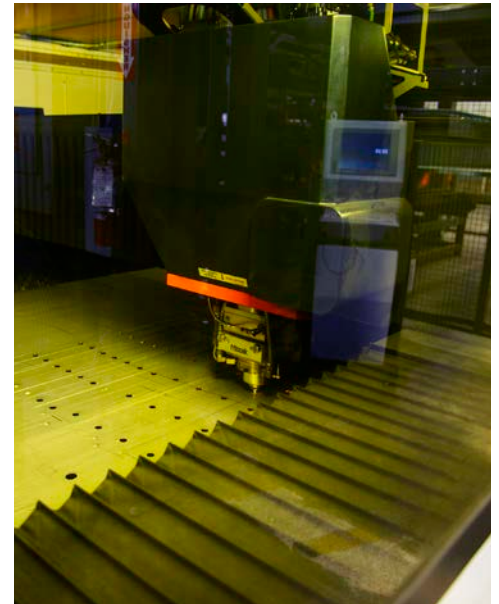


Watch the Machining Plastics Video

scan QR code or visit: <http://bit.ly/MilledPlastics>

Laser Cutter

Martin has two laser cutting tables in their material handling division. These lasers are self loading and unloading, which means that once set up is complete, they can run unattended. These lasers can cut up to 3/4" thick mild or stainless steel and have a work envelope of 2 meters x 4 meters.



Water Jet - High Pressure Water Cutter

Our waterjet cutter penetrates stainless steel conveyor type sprockets and a number of other components with more precision than a burn table.



Advantages

- No material limitations
- Work Envelope: 150" x 79"
- 5 axis capability
- Highest in the industry water pressure of 87,500 PSI
- Easily cut up to 5" steel plate precisely and accurately, and up to 6" with adjustments



Watch the Water Jet Video

scan QR code or visit: <https://bit.ly/WJetCapability>

INTERCHANGEABLE BUSHINGS

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Stock QD Bushings

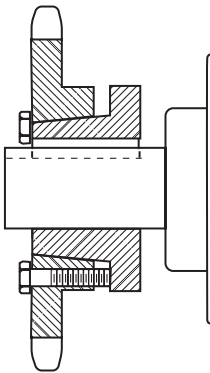


Martin MOUNTING PROCEDURE – QD BUSHINGS

IMPORTANT – BE SURE TAPERED CONE SURFACES OF QD BUSHING AND INSIDE OF SHEAVE OR SPROCKET HUB ARE DRY AND FREE OF ALL FOREIGN SUBSTANCES SUCH AS PAINT, GREASE, OR DIRT.

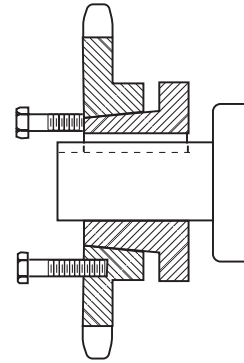
STANDARD MOUNTING ASSEMBLY FOR QD SHEAVES AND SPROCKETS

MOUNTING



1. Be sure the tapered cone surfaces of the bushing and the inside of the driven product are clean and free of anti-seize lubricants.
2. Slide QD bushing on shaft, flange end first. Assemble key.
3. Position QD bushing on shaft. Tighten set screw over key "hand tight" with standard Allen wrench only. Do not use excessive force.
4. Slide large end of sheave or sprocket taper bore into position over cone aligning drilled bolt holes in sheave or sprocket with tapped holes in flange of bushing. Assemble pull-up bolts and lock washers.
NOTE: Install M thru S bushings in the hub so that the two extra holes in the hub are located as far as possible from the bushing's saw cut.
5. Tighten pull-up bolts alternately and evenly to tightness indicated in torque table on back. Do not use extensions on wrench handles. There should be a gap between the face of the sheave or sprocket hub and the flange of the QD bushing to insure a satisfactory cone grip and press fit.
CAUTION: THIS GAP MUST NOT BE CLOSED.

DISMOUNTING



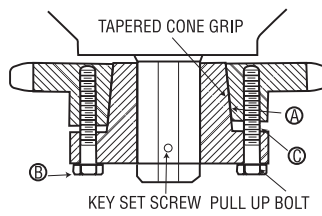
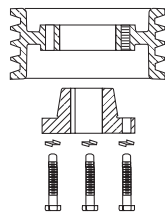
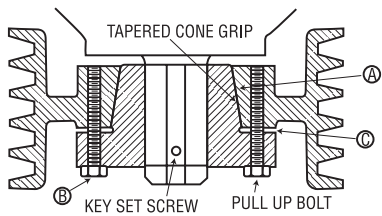
1. Remove pull-up bolts and screw them into TAPPED holes in sheave or sprocket and against flange of QD bushing to break cone grip.
1. Loosen set screw and slide QD bushing from shaft.

WARNING: Because of the possible danger to person(s) or property from accidents which may result from the improper use of products, it is important that correct procedures be followed: Products must be used in accordance with the engineering information specified in the catalog. Proper installation, maintenance and operation procedures must be observed. The instructions given above must be followed. Inspections should be made as necessary to assure safe operation under prevailing conditions. All rotating power transmission products when used in a drive are potentially dangerous and must be guarded by the user as required by applicable laws, regulations, standards, and good safety practice. (Refer to ANSI Standard B15.1.)

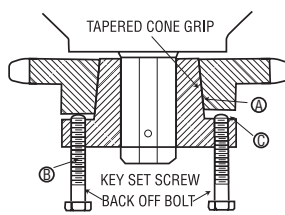
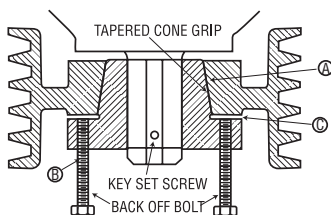
REVERSE Mounting Assembly

FOR QD SHEAVES AND SPROCKETS USING JA, SH, SD, SDS, SK, SF, E, F, AND J BUSHINGS

These bushings, as well as the sprockets and sheaves for them, are each drilled with six holes (three drilled and three tapped) to allow pull-up bolts to be inserted from either side. This enables variations of mounting characteristics to suit a particular installation.



1. Be sure the tapered cone surfaces of the bushing and the inside of the driven product are clean and free of anti-seize lubricants.
2. Assemble sheave or sprocket with bolts inserted (But not tightened) through DRILLED holes in bushing flange into TAPPED holes in sheave, sprocket, or other *Martin* QD part.
3. With key in shaft keyseat, slide assembly into approximate position on shaft with flange end of bushing away from bearing.
4. Position QD bushing on shaft by tightening set screw over key "hand tight" with standard Allen wrench only. Do not use excessive force.
5. Tighten pull-up bolts alternately and evenly to tightness indicated in torque table below. Do not use extensions on wrench handles. There should be a gap between the face of the sheave or sprocket hub and the flange of the QD bushing to insure a satisfactory cone grip and press fit. **CAUTION: THIS GAP MUST NOT BE CLOSED.**



1. Remove pull-up bolts and screw them into TAPPED holes in bushing flange and against hub of sheave or sprocket to break cone grip.
2. Loosen set screw in bushing flange and slide QD bushing from shaft.

CAUTION

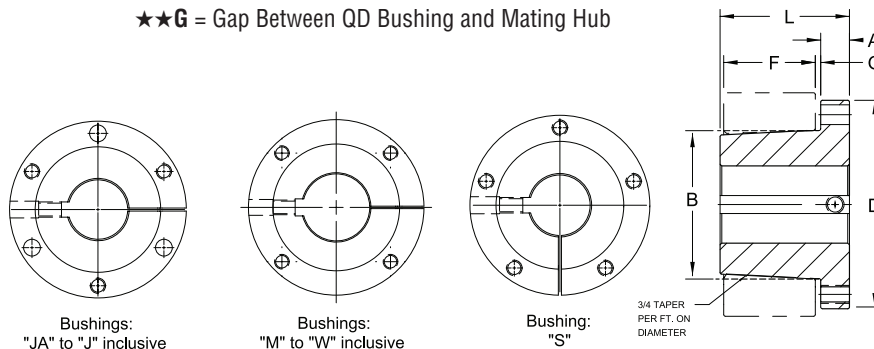
WARNING: USE OF ANTI-SEIZE LUBRICANT ON TAPERED CONE SURFACE OR ON BOLT THREADS WHEN MOUNTING MAY RESULT IN DAMAGE TO SHEAVE AND SPROCKETS. THIS VOIDS ALL MANUFACTURER'S WARRANTIES

BOLT TORQUE TABLE

QD Bushing Size	Set Screw	Wrench Torque in./lbs.
JA	10 – 24	60
SH, SDS, SD	.25 – 20	108
SK	.3125 – 18	180
SF	.375 – 16	360
E	.5 – 13	720
F	.5625 – 12	900
J	.625 – 11	1620
M	.75 – 10	2700
N	.875 – 9	3600
P	1 – 8	5400
W	1.125 – 7	7200
S	1.25 – 7	9000

★F = Length of Mating Bore

★★G = Gap Between QD Bushing and Mating Hub



Bushing	Dimensions (Inches)								Screws Required	Stock Bore Range			Average Weight (Approx.)
	A	B	D	E	★F	★★G	L	Cap Bolt Circle		Min.	Maximum		
											Standard Keyway	Shallow Keyway	
SF-STL	.563	3.125	4.625	1.5	1.25	.125	2.063	3.875	3.375 × 2	.5	2.313	2.813	3.0
E-STL	.75	3.834	6	1.875	1.625	.125	2.625	5	3.5 × 2.75	.875	2.875	3.5	10.0
F-STL	.813	4.437	6.625	2.813	2.5	.188	3.625	5.625	3.563 × 3.625	1	3.313	4	11.5
J-STL	1	5.148	7.25	3.5	3.188	.188	4.5	6.25	3.625 × 4.5	1.438	3.75	4.5	18.0
M-STL	1.25	6.5	9	5.5	5.188	.188	6.75	7.875	4.75 × 6.75	2	4.75	5.5	37.0
N-STL	1.5	7	10	6.625	6.25	.438	8.125	8.5	4.875 × 8.5	2.5	5.125	5.875	57.0

Bushing	Bores	Keyway
SF-STL	2.375 – 2.563	.625 × .188
	2.625 – 2.75	.625 × .063
	2.813 – 2.875	.75 × .063
	2.938	.75 × .031
	.875 – 2.875	STD.
E-STL	2.938 – 3.25	.75 × .125
	3.313 – 3.5	.875 × .063
F-STL	1 – 3.313	STD.
	3.375 – 3.75	.875 × .188
	3.875 – 3.938	1 × .125
	4	NONE
J-STL	3.438 – 3.75	STD.
	3.813 – 4.5	1 × .125
	2 – 4.75	STD.
M-STL	4.813 – 5.5	1.25 × .25
	2.5 – 5.125	STD.
N-STL	5.188 – 5.5	1.25 × .25
	5.563 – 5.875	1.5 × .25

Shallow Key Dimension — Standard			
Keyset	Key	Keyset	Key
.25 × .031	.25 × .156	.75 × .125	.75 × .5
.25 × .063	.25 × .188	.875 × .063	.875 × .5
.375 × .031	.375 × .219	.875 × .188	.875 × .625
.375 × .063	.375 × .25	1 × .125	1 × .625
.375 × .125	.375 × .313	1.25 × .25	1.25 × .875
.5 × .031	.5 × .281	1.5 × .125	1.5 × .875
.5 × .063	.5 × .313	1.5 × .25	1.5 × 1
.5 × .125	.5 × .375	1.75 × .125	1.75 × .75
.625 × .063	.625 × .375	1.75 × .25	1.75 × .875
.75 × .063	.75 × .438	2 × .25	2 × 1

Shallow Key Dimension — Steel			
Keyset	Key	Keyset	Key
.25 × .031	.25 × .156	.75 × .063	.75 × .438
.25 × .063	.25 × .188	.75 × .125	.75 × .5
.375 × .031	.375 × .219	.875 × .063	.875 × .5
.375 × .063	.375 × .25	.875 × .188	.875 × .625
.375 × .125	.375 × .313	1 × .125	1 × .625
.5 × .031	.5 × .094	1.25 × .25	1.25 × .875
.5 × .063	.5 × .313	1.5 × .25	1.5 × 1
.5 × .125	.5 × .375	1.75 × .125	1.75 × .75
.625 × .063	.625 × .375	1.75 × .375	1.75 × 1
.625 × .188	.625 × .5	2 × .25	2 × 1

Shallow Key Dimension — Standard		
Bores	Keyset	Key
.875	.188 × .094	.188 × .188
.938 – 1.25	.25 × .125	.25 × .25
1.313 – 1.375	.313 × .156	.313 × .313
1.438 – 1.75	.375 × .188	.375 × .375
1.813 – 2.25	.5 × .25	.5 × .5
2.313 – 2.75	.625 × .313	.625 × .625
2.813 – 3.25	.75 × .375	.75 × .75
3.313 – 3.75	.875 × .438	.875 × .875
3.813 – 4.5	1 × .5	1 × 1
4.563 – 5.5	1.25 × .625	1.25 × 1.25
5.563 – 6.5	1.5 × .75	1.5 × 1.5
6.563 – 7.5	1.75 × .75	1.75 × 1.5
7.563 – 9	2 × .75	2.5 × 1.5
9.063 – 11	2.5 × .875	—
1.688 – 13	3 × 1	—

Bushing	Plain Bores Not Split
SH-STL	.5
SD-STL	.5
SK-STL	.5
SF-STL	.5
E-STL	.875 – 1.938
F-STL	1 – 2.438 – 2.938
J-STL	1.438 – 2.938
M-STL	2 – 2.938
N-STL	2.438 – 4.938

Reborable QD bushings made of Stainless Steel are available in many sizes. Non stock sizes are available on MTO basis.

Standard QD Bushings



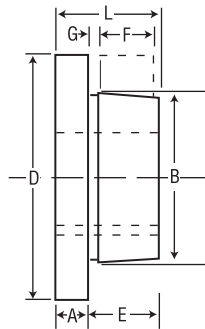
Bushing	Dimensions (Inches)								Cap Screws Required	Min.	Stock Bore Range		Set Screw Size	Average Weight (lb)
	A	B	D	E	F	G	L	Bolt Circle			Maximum			
	Standard Keyway		Shallow Keyway											
JA	.375	1.375	2	.688	.563	.210	1	1.665	3 - 10 x 1	.375	1	1.25	10 - 24	0.9
SH	.438	1.871	2.688	.875	.813	.243	1.25	2.25	3 - .25 x 1.375	.5	1.375	1.688	.25 - 20	1.0
SDS	.5	2.187	3.188	.875	.75	.265	1.315	2.688	3 - .25 x 1.375	.5	1.688	2	.25 - 20	1.0
SD	.5	2.187	3.188	.938	1.25	.260	1.813	2.688	3 - .25 x 1.875	.5	1.688	1.938	.25 - 20	1.5
SK	.563	2.812	3.875	1.375	1.25	.317	1.875	3.313	3 - .313 x 2	.5	2.125	2.5	.313 - 18	2.0
SF	.563	3.125	4.625	1.5	1.25	.322	2	3.875	3 - .375 x 2	.5	2.313	2.316	.313 - 18	3.0
E	.75	3.834	6	1.875	1.625	.327	2.625	5	3 - .5 x 2.75	.875	2.875	3.5	.375 - 16	10.0
F	.813	4.437	6.625	2.813	2.5	.423	3.625	5.625	3 - .563 x 3.625	1	3.313	3.938	.5 - 13	11.5
J	1	5.148	7.25	3.5	3.188	.423	4.5	6.25	3 - .625 x 4.5	1.438	3.75	4.5	.625 - 11	18.0
M	1.25	6.5	9	5.5	5.188	.423	6.75	7.875	4 - .75 x 6.75	1.938	4.75	5.5	.75 - 10	37.0
N	1.5	7	10.25	6.625	6.25	.423	8.125	8.5	4 - .875 x 8.5	2.438	5.125	6	.75 - 10	57.0
P	1.75	8.25	11.75	7.625	7.25	.423	9.375	10	4 - 1 x 9.5	2.938	5.938	7	.875 - 9	120.0
W	2	10.437	15	9.375	9	.564	11.375	12.75	4 - 1.125 x 11.5	4	7.5	8.5	1 - 8	250.0
S	3.25	12.125	17.75	12.5	-	.814	15.75	15	5 - 1.25 x 15.5	6	8.25	10	1.25 - 7	400.0

Inch Bore

Bushing	Bores	Keyway
JA	.375 - .438	NO K.W.
	.5 - 1	STD.
	1.063 - 1.125	.25 x .063
	.813	.25 x .063
	1.25	NO K.W.
SH	.5 - 1.375	STD.
	1.438 - 1.5	.375 x .063
	1.563 - 1.625	.375 x .063
SDS	1.688	NO K.W.
	.5 - 1.688	STD.
	1.75	.375 x .125
	1.813	.5 x .125
	1.875 - 1.938	.5 x .063
SD	2	NO K.W.
	.5 - 1.688	STD.
	1.75	.375 x .125
	1.813	.5 x .125
	1.875	.5 x .063
SK	1.938	NO K.W.
	2	NO K.W.
	.5 - 2.125	STD.
	2.188 - 2.25	.5 x .125
	2.313 - 2.5	.625 x .063
SF	2.563 - 2.625	NO K.W.
	.5 - 2.25	STD.
	2.313 - 2.5	.625 x .188
	2.563 - 2.75	.625 x .063
	2.813 - 2.875	.75 x .063
E	2.938	.75 x .031
	.875 - 2.875	STD.
	2.938 - 3.25	.75 x .125
	3.375 - 3.5	.875 x .063
	3.313	.875 x .125
F	1 - 3.313	STD.
	3.375 - 3.75	.875 x .188
	3.875 - 3.938	1 x .125
	4	NONE
J	1.25 - 3.75	STD.
	3.813 - 4.5	1 x .125
M	2 - 4.75	STD.
	4.813 - 5.5	1.25 x .25
N	2.438 - 5	STD.
	5.125 - 5.5	1.25 x .25
	5.563 - 6	1.5 x .25
P	2.938 - 5.938	STD.
	6 - 6.5	1.5 x .25
	6.563 - 7	1.75 x .125
W	4 - 7.5	STD.
	7.563 - 8.5	2 x .25

Millimeter Bore

Bushing	Bores MM	Key Stock Size ★ w x t
SH	24, 25, 28, 30	8 x 7
	32, 35	10 x 8
SDS	24, 25, 28, 30	8 x 7
	32, 35, 38	10 x 8
	40, 42	12 x 8
SD	24, 25, 28, 30	8 x 7
	32, 35, 38	10 x 8
	40, 42	12 x 8
SK	24, 25, 28, 30	8 x 7
	32, 35, 38	10 x 8
	40, 42	12 x 8
	48, 50	14 x 9
	55	16 x 10
SF	28, 30	8 x 7
	32, 35, 38	10 x 8
	40, 42	12 x 8
	48, 50	14 x 9
	55	16 x 10
E	60	18 x 11
	35, 38	10 x 8
	40, 42	12 x 8
	48, 50	14 x 9
	55	16 x 10
F	60, 65	18 x 11
	70, 75	20 x 12
	80, 85	22 x 14
	90	25 x 14
	70, 75	20 x 12
J	80, 85	22 x 14
	90, 95	25 x 14
	100	28 x 16
	50	14 x 9
	55	16 x 10

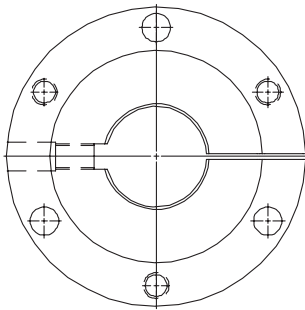


★ Important — The metric system does not refer to keyseat or keyway dimensions as does the English system; instead, dimensions are given for the key itself which is rectangular in shape, not square as in the English system.

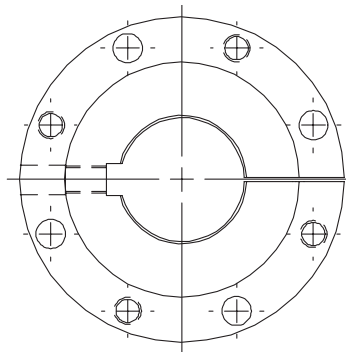
NOTE:
.03937" = 1mm
Ex—24 mm = 0.94488"

TO ORDER:
SH 24 mm

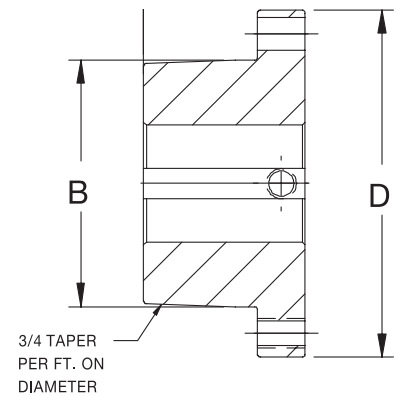
Keystock provided for nonstandard keyways.



Bushings:
JS



Bushings:
MS to WS inclusive



Inch Bore

Bushing	Bores	Keyway	Weight lbs (approx)
JS	2.438	.625 x .313	19
	2.938	.75 x .375	17
	3.438	.875 x .438	15
	3.5		15
	3.938	1 x .125	13
4.438	10		
MS	3.438	.875 x .438	38
	3.5		37
	3.938	1 x .5	34
	4.438		30
	4.938	1.25 x .25	26
	5.438		21
5.5	20		
NS	3.938	1 x .5	54
	4.438		49
	4.938	1.25 x .625	43
	5.438	1.25 x .25	38
	5.5		37
5.938	1.5 x .25	31	
6		30	
PS	4.938	1.25 x .625	76
	5.438		70
	5.938	1.5 x .75	62
	6	1.5 x .25	62
	6.438		55
6.5		54	
6.938	1.75 x .125	47	
7		45	
WS	5.438	1.25 x .625	154
	5.15/16		145
	6	1.5 x .75	144
	6.438		136
	6.5		135
	6.938	1.75 x .75	126
	7		125
	7.5		114
	7.938	2 x .25	106
8	105		
8.438	94		
8.5	93		



Martin QD Short Bushings are suitable for use in belt conveyor applications wherever the short hubs of a conveyor pulley require the QD Short Bushing style.

Millimeter Bore

Bushing	Dimensions (Inches)						Cap Screws Required	Set Screw Size
	A	B	D	E	L	Bolt Circle		
JS	1	5.148	7.25	2.38	3.38	6.25	.625 x 2.5 (3)	.625
MS	1.19	6.5	9	3.62	4.81	7.88	.75 x 3 (4)	.75
NS	1.5	70	10	4.5	6	8.5	.875 x 3.5 (4)	.75
PS	1.5	8.25	11.75	5	6.5	10	1 x 4 (4)	.875
WS	1.75	10.437	15	5.5	7.25	12.75	1.125 x 5 (4)	1

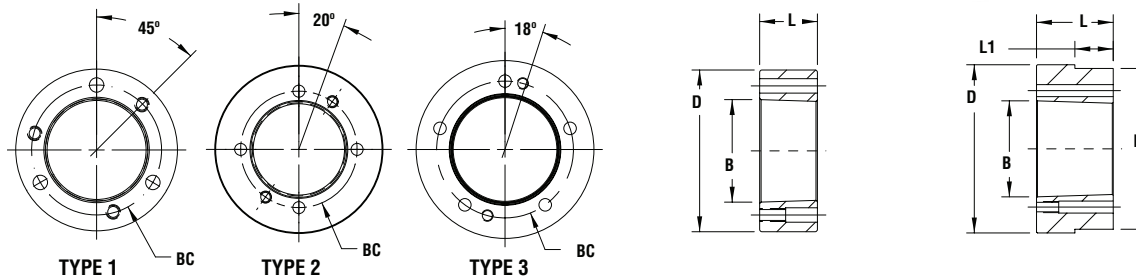
QD and QD Short Weld-On Hubs



QD Weld-On Hubs

Martin QD Weld-On Hubs are suitable for use in many applications, such as welding to plate steel sprockets.

QD Weld-On Hubs are made of steel, drilled, tapped and tapered bored for QD bushings

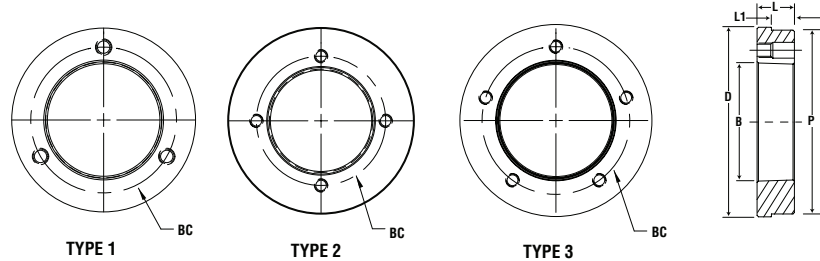


Catalog Number	Dimensions (Inches)						Type Drilling	Weight (lbs)	Mounting
	D ★	L	B (nom)	P	L ₁	BC			
JA-A	2.25	.563	1.37	—	—	1-21/32	1	0.4	STD or Reverse Mount ↓
SH-A	3	.813	1.87	—	—	2.25	1	1.0	
SDS-A	3.5	.75	2.18	—	—	2.688	1	1.2	
SK-A	4.375	1.25	2.81	—	—	3.313	1	3.0	
SF-A	5	1.25	3.12	—	—	3.875	1	4.0	
E-A	6.25	1.625	3.83	—	—	5	1	9.0	
F-A	7	2.5	4.44	—	—	5.625	1	16.0	
J-A	7.75	3.188	5.14	—	—	6.25	1	22.5	
M-A	9.5	5.188	6.49	9.25	3.563	7.875	2	50.0	
N-A	10.5	6.25	6.99	10.25	4.5	8.5	2	75.0	
P-A	13	7.25	8.24	—	—	10	2	155.0	STD Mount Only
W-A	15.5	9	10.43	—	—	12.75	2	300.0	
S-A	19.5	12	12.12	18.75	7.5	15	3	558.0	

★ Tolerance of D Dimension (or P dimension where applicable) JA-A Thru J-A = (+.002) M-A Thru S-A = (+.003)

QD Short Weld-On Hubs

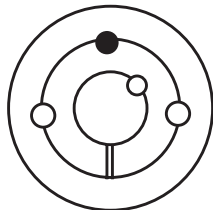
Martin QD Short Weld-On Hubs are designed for use in conveyor pulleys.



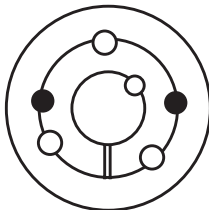
Catalog Number	Dimensions (Inches)						Type Drilling	Weight (lbs)	Mounting
	D	L	B (nom)	P ★	L ₁	BC			
SFS-A	5	1	3.12	4.75	.563	3.875	1	3.0	Reverse Mount Only
ES-A	6.25	1.125	3.83	6	.625	5	1	5.5	
FS-A	7	1.25	4.44	6.75	1.063	5.625	1	7.4	
JS-A	8.25	1.625	5.14	8	1	6.25	1	13.8	
MS-A	9.5	2.375	6.49	9.25	1.625	7.875	2	22.9	
NS-A	10.25	2.375	6.99	10	1.563	8.5	2	26.8	
PS-A	12.25	2.875	8.24	12	2	10	2	47.9	
WS-A	15.25	3.375	10.43	14.875	2.438	12.75	2	84.2	
SS-A	17.5	3.875	12.12	17	2.75	15	3	121.8	

★ Tolerance of P Dimension SFS-A Thru MS-A = (+.004) NS-A Thru PS-A = (+.005) WS-A Thru SS-A = (+.006)

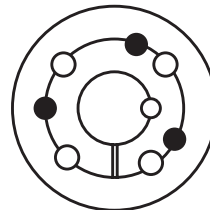
IMPORTANT NOTE: Please follow the instructions on this sheet in order for the *Martin* bushing to perform satisfactorily.



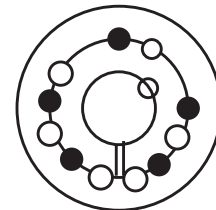
1008 to 3030



3535 to 6050



7060 to 10085



102100

INSTALLATION

1. Clean all oil, dirt, and paint from shaft, bushing bore, outside of bushing and component (sprocket, sheave...etc.) bore.
2. Insert bushing into component. Match the hole pattern, not the threaded holes (each hole will be threaded on one side only.)
3. Thread set or cap screws into those half threaded holes indicated by ○ on above diagram. Mount assembly on shaft.
4. Alternately torque set or cap screws* to recommended torque setting in chart below.
5. On 3535 and larger bushings use a block, sleeve or drift and hammer large end of bushing (do not hammer bushing directly).
6. Repeat steps 4 and 5 until torque wrench reading, after hammering, is the same as before hammering.
7. Fill all unoccupied holes with grease.

REMOVAL

1. Remove all set or cap screws.
2. Insert set or cap screws in holes indicated by ● on drawing. Loosen bushing by alternately tightening set or cap screws.
3. To reinstall, complete all seven (7) installation instructions.

RECOMMENDED TORQUE		
Bushing No.	Set Screw	Wrench Torque in/lb
1008, 1108 1210, 1215, 1310 1610, 1615	1/4 – 20 Socket Set Screw	55
	5/16 – 18 Socket Set Screw	165
	3/8 – 16 Socket Set Screw	175
	3/8 – 16 Socket Set Screw	175
2012 2317, 2525 3020, 3030	7/16 – 14 Socket Set Screw	280
	1/2 – 13 Socket Set Screw	430
	5/8 – 11 Socket Set Screw	800
3535 4040 4545	1/2 – 13 Socket Set Screw	1000
	5/8 – 11 Socket Set Screw	1700
	3/4 – 10 Socket Set Screw	2450
5050 6050, 7060, 8065 10085, 120100	7/8 – 9 Socket Set Screw	3100
	1-1/4 – 7 Socket Set Screw	7820
	1-1/2 – 6 Socket Set Screw	13700

If two bushings are used on same component and shaft, fully tighten one bushing before working on the other

CAUTION

WARNING: USE OF ANTI-SEIZE LUBRICANT ON TAPERED CONE SURFACE OR ON BOLT THREADS WHEN MOUNTING MAY RESULT IN DAMAGE TO SHEAVE AND SPROCKETS. THIS VOIDS ALL MANUFACTURER'S WARRANTIES

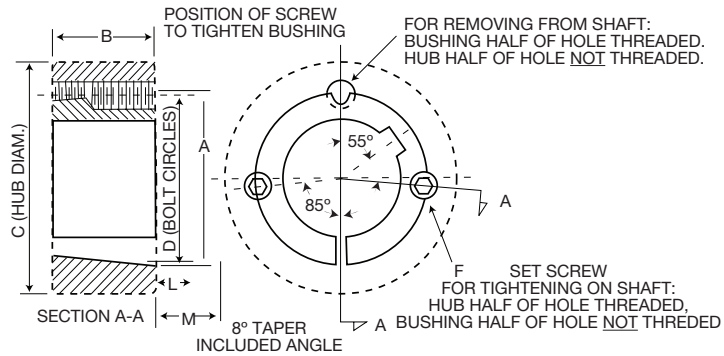
WARNING: Because of the possible danger to person(s) or property from accidents which may result from the improper use of products, it is important that correct procedures be followed: Products must be used in accordance with the engineering information specified in the catalog. Proper installation, maintenance and operation procedures must be observed. The instructions given above must be followed. Inspections should be made as necessary to assure safe operation under prevailing conditions. All rotating power transmission products when used in a drive are potentially dangerous and must be guarded by the user as required by applicable laws, regulations, standards, and good safety practice. (Refer to ANSI Standard B15.1.)

Taper Bushings Dimensions



No. 1008 to 3030 Taper Bushings

Bushing Number	Bore	Wt. lbs (appr)	Bushing Keyseat	Shaft Keyseat
1008	.5 to .563	.27	.125 x .063	.125 x .063
	.625 to .875	.21	.188 x .094	.188 x .094
	.938 to 1	.16	.25 x .063 ▼	.25 x .125
1108	.5 to .563	.33	.125 x .063	.125 x .063
	.625 to .875	.27	.188 x .094	.188 x .094
	.938 to 1	.22	.25 x .125	.25 x .125
	1.063 to 1.125	.17	.25 x .063 ▼	.25 x .125
1210	.5 to .563	.61	.125 x .063	.125 x .063
	.625 to .875	.55	.188 x .094	.188 x .094
	.938 to 1.25	.49	.25 x .125	.25 x .125
1215	.5 to .563	.8	.125 x .063	.125 x .063
	.625 to .875	.7	.188 x .094	.188 x .094
	.938 to 1.25	.6	.25 x .125	.25 x .125
1310	.5 to .563	.7	.125 x .063	.125 x .063
	.625 to .875	.7	.188 x .094	.188 x .094
	.938 to 1.25	.6	.25 x .125	.25 x .125
	1.313 to 1.375	.6	.313 x .156	.313 x .156
1610	.5 to .563	.9	.125 x .063	.125 x .063
	.625 to .875	.8	.188 .094	.188 .094
	.938 to 1.25	.7	.25 x .125	.25 x .125
	1.313 to 1.375	.7	.313 x .156	.313 x .156
	1.438 to 1.5	.6	.375 x .188	.375 x .188
1615	.5 to .563	.9	.125 x .063	.125 x .063
	.625 to .875	.8	.188 .094	.188 .094
	.938 to 1.25	.7	.25 x .125	.25 x .125
	1.313 to 1.375	.7	.313 x .156	.313 x .156
	1.438 to 1.5	.6	.375 x .188	.375 x .188
2012	.5 to .563	1.2	.125 x .063	.125 x .063
	.625 to .875	1.1	.188 x .094	.188 x .094
	.938 to 1.25	1.0	.25 x .125	.25 x .125
	1.313 to 1.375	.8	.313 x .156	.313 x .156
	1.438 to 1.5	.7	.375 x .188	.375 x .188
2517	.5 to .563	1.7	.125 x .063	.125 x .063
	.625 to .875	1.6	.188 x .094	.188 x .094
	.938 to 1.25	1.5	.25 x .125 ▼	.25 x .125
	1.313 to 1.375	1.4	.313 x .156	.313 x .156
	1.438 to 1.75	1.2	.375 x .188	.375 x .188
2525	.5 to .563	3.5	.125 x .063	.125 x .063
	.625 to .875	3.4	.188 x .094	.188 x .094
	.938 to 1.25	3.3	.25 x .125	.25 x .125
	1.313 to 1.375	3.2	.313 x .156	.313 x .156
	1.438 to 1.75	3.0	.375 x .188	.375 x .188
3020	.5 to .563	9.2	.25 x .125	.25 x .125
	.625 to .875	8.9	.313 x .156	.313 x .156
	.938 to 1.25	8.6	.375 x .188	.375 x .188
	1.313 to 1.375	8.9	.313 x .156	.313 x .156
	1.438 to 1.75	8.6	.375 x .188	.375 x .188
3030	.5 to .563	9.2	.25 x .125	.25 x .125
	.625 to .875	8.9	.313 x .156	.313 x .156
	.938 to 1.25	8.6	.375 x .188	.375 x .188
	1.313 to 1.375	8.9	.313 x .156	.313 x .156
	1.438 to 1.75	8.6	.375 x .188	.375 x .188



Dimensions

Bushing Number	A	B	C Ø			D	F †	L ★		M ★★	
			Class 20 Gray Iron	Class 30 Gray Iron	Steel			Standard Hex. Key	Short Key ‡	Std. Hex. Key	Short Key ‡
1008	1.386	.875	2.375	2.188	1.938	1.328	.25 x .5	1.125	.625	1.25	.75
1108	1.511	.875	2.5	2.313	2.063	1.453	.25 x .5	1.125	.625	1.25	.75
1210	1.875	1	3.625	3.25	2.875	1.75	.375 x .625	1.375	.813	1.625	1.063
1215	1.875	1.5	3.125	2.875	2.625	1.75	.375 x .625	1.375	.813	1.625	1.063
1310	2	1	3.75	3.375	3	1.875	.375 x .625	1.375	.813	1.625	1.063
1610	2.25	1	4	3.625	3.25	2.125	.375 x .625	1.375	.813	1.625	1.063
1615	2.25	1.5	3.5	3.25	3	2.125	.375 x .625	1.375	.813	1.625	1.063
2012	2.75	1.25	4.75	4.375	3.875	2.625	.438 x .875	1.563	.938	2	1.375
2517	3.375	1.75	5.5	4.875	4.375	3.25	.5 x 1	1.625	1	2.25	1.625
2525	3.375	2.5	4.75	4.5	4.25	3.25	.5 x 1	1.625	1	2.25	1.625
3020	4.25	2	7	6.25	5.625	4	.625 x 1.25	1.813	1.188	2.688	2.063
3030	4.25	3	6.25	5.75	5.375	4	.625 x 1.25	1.813	1.188	2.688	2.063

Bushings cannot be bored larger than largest bore listed.

For detail dimensions required for machining hubs, consult factory.

▼ Key furnished for these sizes only.

Ø For general reference. Severe conditions may require larger hub. Heavy well-located web may permit smaller hub. Hub diameter required depends on the particular application. Consult *Martin* giving full information on the proposed design. Hub diameters shown are based on 20,000, 30,000, and 50,000 P.S.I. minimum ultimate tensile strength respectively for Class 20 gray iron, Class 30 gray iron, and steel hubs.

† 2 screws required. Use in positions shown for tightening bushing on shaft. In removing bushing from shaft, remove screws and use one of them in the other hole. Bushing price includes screws.

★ Space required to tighten bushing. Also space required to loosen screws to permit removal of hub by puller.

★★ Space required to loosen bushing using one screw as jackscrew — no puller required.

‡ Standard hex key cut to minimum usable length.

No. 3535 to 5050 Bushings

Bushing Number	Bore	Weight	Bushing Keyseat	Shaft Keyseat	A	B	C Ø			D	F †	G	R
							Class 20 Gray Iron	Class 30 Gray Iron	Steel				
3535	1.188 to 1.25	14	.25 × .125	.25 × .125	5	3.5	7.75	7	6.5	4.83	.5 × 1.5	39°	▲
	1.313 to 1.375	14	.313 × .156	.313 × .156									
	1.438 to 1.75	13	.375 × .188	.375 × .188									
	1.813 to 2.25	12	.5 × .25	.5 × .25									
	2.313 to 2.75	11	.625 × .313	.625 × .313									
	2.813 to 3.25	9	.75 × .375	.75 × .375									
3.313 to 3.5	8	▼ .875 × .25	.875 × .438										
4040	1.438 to 1.75	22	.375 × .188	.375 × .188	5.75	4	9.5	8.5	7.75	5.54	.625 × 1.75	40°	▲
	1.813 to 2.25	21	.5 × .25	.5 × .25									
	2.313 to 2.75	19	.625 × .313	.625 × .313									
	2.813 to 3.25	17	.75 × .375	.75 × .375									
	3.313 to 3.625	15	.875 × .438	.875 × .438									
	3.688 to 3.75	14	.875 × .438	.875 × .438									
	3.813 to 4	13	▼ 1 × .25	1 × .5									
4545	1.938 to 2.25	30	.5 × .25	.5 × .25	6.375	4.5	10.5	9.5	8.75	6.13	.75 × 2	40°	▲
	2.313 to 2.75	28	.625 × .313	.625 × .313									
	2.813 to 3.25	26	.75 × .375	.75 × .375									
	3.313 to 3.75	23	.875 × .438	.875 × .438									
	3.813 to 4.25	20	1 × .5	1 × .5									
	4.313 to 4.5	18	▼ 1 × .25	1 × .5									
5050	2.313 to 2.75	38	.625 × .313	.625 × .313	7	5	11.5	10.5	9.5	6.72	.875 × 2.25	37°	▲
	2.813 to 3.25	35	.75 × .375	.75 × .375									
	3.313 to 3.75	32	.875 × .438	.875 × .438									
	3.813 to 4.5	27	1 × .5	1 × .5									
	4.563 to 5	24	▼ 1.25 × .438	1.25 × .625									

No. 4030 to 5040 Short Taper Bushings

Bushing Number	Bore	Weight	Bushing Keyseat	Shaft Keyseat	A	B	C Ø			D	F †	G	R
							Class 20 Gray Iron	Class 30 Gray Iron	Steel				
4030	1.438 to 1.75	24	.375 × .188	.375 × .188	5.75	3	9.5	8.5	7.75	5.54	.625 × 1.75	39°	▲
	1.813 to 2.25	21	.5 × .25	.5 × .25									
	2.313 to 2.75	20	.625 × .313	.625 × .313									
	2.813 to 3.25	18	.75 × .375	.75 × .375									
	3.313 to 3.688	15	.875 × .438	.875 × .25									
	3.75	13	▼ .875 × .25	.875 × .438									
	3.813	13	1 × .5	1 × .5									
	3.875 to 4.438	13	1 × .25	1 × .5									
4535	1.938 to 2.25	31	.5 × .25	.5 × .25	6.375	3.5	10.5	9.5	8.75	6.13	.75 × 2	40°	▲
	2.313 to 2.75	29	.625 × .313	.625 × .313									
	2.813 to 3.25	25	.75 × .375	.75 × .375									
	3.313 to 3.688	23	.875 × .438	.875 × .438									
	3.813 to 4.25	20	1 × .5	1 × .5									
	4.375 to 4.5	17	▼ 1 × .25	1 × .5									
4.75 to 4.938	15	▼ 1.25 × .25	1.25 × .625										
5040	2.438 to 2.75	40	.625 × .313	.625 × .313	7	4	11.5	10.5	9.5	6.72	.875 × 2.25	37°	▲
	2.813 to 3.25	37	.75 × .375	.75 × .375									
	3.313 to 3.75	33	.875 × .438	.875 × .438									
	3.813 to 4.5	29	1 × .5	1 × .5									
	4.75 to 5	23	▼ 1.25 × .25	1.25 × .625									

Bushings cannot be bored larger than largest bore listed.

For detail dimensions required for machining hubs, consult factory.

▼ Key furnished for these sizes only.

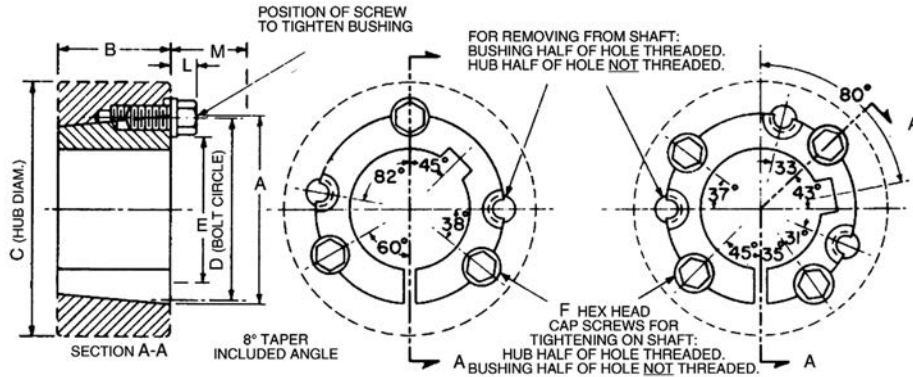
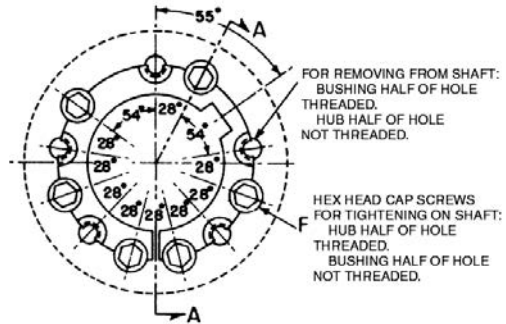
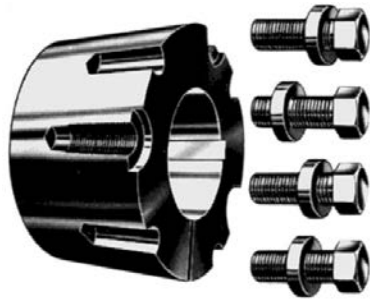
Ø For general reference. Severe conditions may require larger hub. Heavy well located web may permit smaller hub. Hub diameter required depends on the particular application. Consult factory giving full information on the proposed design. Hub diameters shown are based on 20,000, 30,000, and 50,000 P.S.I. minimum ultimate tensile strength respectively for Class 20 gray iron, Class 30 gray iron, and steel hubs.

† 3 screws required. Use in positions shown for tightening bushing on shaft. In

removing bushing from shaft, remove screws and use two of them in the other two holes. Bushing price includes screws. See following footnote.

▲ Provide sufficient space to tighten and loosen bushing. Width across flats of screw head is same as screw diameter which is shown in column F.

Taper Bushings Dimensions



No 6050 to 120100 Taper Bushings

Bushing Number	Bore	Weight	Bushing Keyseat	Shaft Keyseat	A	B	C Ø			D	E	F †	L ★	M ★★
							Class 20 Gray Iron	Class 30 Gray Iron	Steel					
6050	3.813 to 4.5	60	1 × .5	1 × .5	9.25	5	17	15.5	13.5	9	6.75	1.25 × 3.5	1.625	4.375
	4.916 to 5.5	55	1.25 × .625	1.25 × .625										
	5.563 to 6	50	1.5 × .75	1.5 × .75										
7060	4.563 to 5.5	85	1.25 × .625	1.25 × .625	10.25	6	18.5	17	14.75	10	7.75	1.25 × 3.5	1.625	4.375
	5.563 to 6.5	75	1.5 × .75	1.5 × .75										
	6.563 to 7	65	1.75 × .75	1.75 × .75										
◊ 8065	5.063 to 5.5	120	1.25 × .625	1.25 × .625	11.25	6.5	19	17.5	15.5	11	8.75	1.25 × 3.5	1.625	4.375
	5.563 to 6.5	105	1.5 × .75	1.5 × .75										
	6.563 to 7.5	90	1.75 × .75	1.75 × .75										
	7.563 to 8	75	2 × .75	2 × .75										
◊ 10085	6.563 to 7.5	260	1.75 × .75	1.75 × .75	14.75	8.5	23.5	22	19.5	14.5	11.75	1.5 × 4.25	2	5.375
	7.563 to 9	230	2 × .75	2 × .75										
	9.063 to 10	190	2.5 × .875	2.5 × .875										
◊ 120100	7.563 to 9	410	2 × .75	2 × .75	17.25	10	28	26	23	17	14.25	1.5 × 4.25	2	5.375
	9.063 to 11	360	2.5 × .875	2.5 × .875										
	11.063 to 12	290	3 × 1	3 × 1										

Bushings cannot be bored larger than largest bore listed.

For detail dimensions required for machining hubs, consult *Martin*.

Ø For general reference. Severe conditions may require larger hub. Heavy well located web may permit smaller hub. Hub diameter required depends on the particular application. Consult *Martin* giving full information on the proposed design. Hub diameters shown are based on 20,000, 30,000, and 50,000 P.S.I. minimum ultimate tensile strength respectively for Class 20 gray iron, Class 30 gray iron, and steel hubs.

† 3 screws for 6050; four for 7060 to 10085; six for 120100. Use in positions shown for tightening bushing on shaft. In loosening bushing, remove screws and use all except one in the other holes. Bushing price includes screws.

★ Space required to tighten bushing. Also space required to loosen screws

to permit removal of hub by puller.

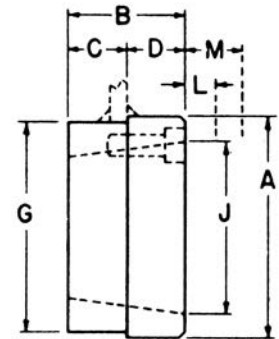
★★ Space required to loosen bushing using screws as jackscrews—no puller required.

◊ Not currently stocked — Available on order.

Type S

Martin Taper Bushed Type S Weld-On Hubs are suitable for use in many applications such as for welding to plate steel sprockets. The outside diameters of these hubs have been reduced to a minimum. This is permissible because of the reinforcing strength of the items to which they are to be welded. Cases where the attached item is of small dimensions should be referred to *Martin*.

Type S Weld-On Hubs are made of steel, drilled, tapped, and taper bored for Tapered Bushings. Their small size and the convenience and advantages of Taper Bushed construction make them of great value on many devices for use on shafts.



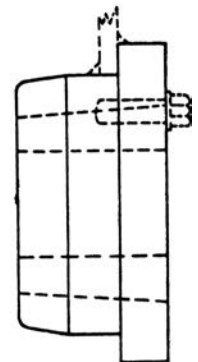
Bushing Number	For Use with Bushing Number	Max. Bore of Bushing	Weight	A	B \diamond	C $\star\star$	D ∇	G	J
S16-4	1610	1.625	.9	3	1	.275	.725	2.875 †	2.25
S16-6	1610	1.625	.9	3	1	.450	.550	2.875 †	2.25
S20-6	2012	2	1.8	3.563	1.25	.450	.800	3.438 †	2.75
S20-8	2012	2	1.4	3.563	1.25	.570	.680	3.438 †	2.75
S25-6	2517	2.5	2.6	4.25	1.75	.450	1.300	4.125 †	3.375
S25-8	2517	2.5	2.6	4.25	1.75	.565	1.185	4.125 †	3.375
S25-10	2517	2.5	2.5	4.25	1.75	.685	1.065	4.125 †	3.375
S25-16	2517	2.5	2.4	4.25	1.75	1.090	.660	4.125 †	3.375
S30-10	3020	3	4.3	5.25	2	.675	1.325	5.125 †	4.25
S30-16	3020	3	4.2	5.25	2	1.090	.910	5.125 †	4.25
S35	3535	3.5	12.8	6.5	3.5	1.160	2.340	6.375 \emptyset	5

See dimension tables on preceding page for bushing data and wrench space required.

- † + .000 - .002
- \diamond + .005 - .010
- \emptyset + .001 - .003
- ∇ + .000 - .005
- $\star\star$ + .010 - .010

Type WA

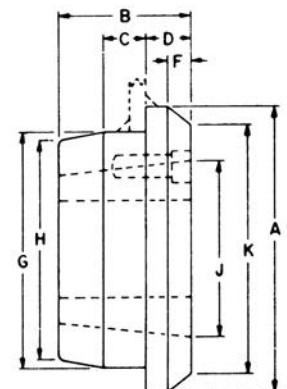
Type WA Weld-On Hubs are made of steel, drilled, tapped, and taper bored to receive Tapered Bushings. They are very useful for welding into fan rotors, pulleys, plate sprockets, impellers, agitators, and many other devices which must be firmly fastened to the shaft.



Bushing Number	For Use with Bushing Number	Max. Bore of Bushing	Weight	A	B	C	D	F	G	H	J	K
WA12	1215	1.25	1.3	2.875	1.5	.375	.625	.375	2.5 †	2.375	1.875	2.625
WA16	1615	1.625	1.5	3.25	1.5	.375	.625	.375	2.875 †	2.75	2.25	3
WA25	2517	2.5	4.0	4.875	1.75	.5	.75	.375	4.375 †	4.25	3.375	4.625
WA30	3030	3	8.6	5.5	3	.75	.75	.25	5.125 †	4.813	4.125	5
WA35	3535	3.5	15	6.75	3.5	1.25	1	.375	6.25 †	5.938	5	6
WA40	4040	4	29	7.75	4	1.5	1	.375	7.25 †	6.875	5.75	7
WA45	4545	4.5	42	8.75	4.5	1.75	1	.375	8 †	7.625	6.375	8
WA50	5050	5	57	9.5	5	1.75	1	.375	8.75 •	8.375	7	8.75
WA60	6050	6	115	13.25	5	1.75	1.25	-	12.25 \star	11.875	9.25	-
WA70	7060	7	155	14.5	6	2.25	1.25	-	13.5 \star	13.25	10.25	-
WA80	8065	8	180	15.25	6.5	2.25	1.25	-	14.25 \star	14	11.25	-
WA100	10085	10	340	19.75	8.5	3.5	1.5	-	18.75 \star	18.25	14.75	-

See dimension tables on preceding page for bushing data and wrench space required.

- † + .000 - .002
- + .000 - .003
- \star + .000 - .004



Taper Bushings Metric and Reborable



Stock Taper Bushings With Metric Bores and Keyways

★ Metric Bores	★ Metric Keyway	Taper Bushing Number			
14, 16	5 × 2.3	1008	1108	1210	
		1215	1610	1615	
18, 19 20, 22	6 × 2.8	1008	1108	1210	1215
		1610	1615	2012	2517
24	8 × 3.3	1108	1210	1215	
		1610	1615	2012	2517
25	8 × 3.3	1210	1215	1610	
		1615	2012	2517	
28, 30	8 × 3.3	1210	1215	1610	
		1615	2012	2517	3020
32	10 × 3.3	1610	1615		
		2012	2517	3020	
35	10 × 3.3	1610	1615		
		2012	2517	3020	
38	10 × 3.3	1610	1615		
		2012	2517	3020	
40, 42	12 × 3.3	2012			
		2517	3020		
45, 48	14 × 3.8	2012			
		2517	3020		
50	14 × 3.8	2517	3020		
		55	16 × 4.3	2517	3020

★ Millimeter Bores and Keyways from ISO Std. R773. 1" = 25.4 millimeters

NOTE: For other metric bore sizes consult factory.

Stock Reborable Taper Bushings With No Keyways

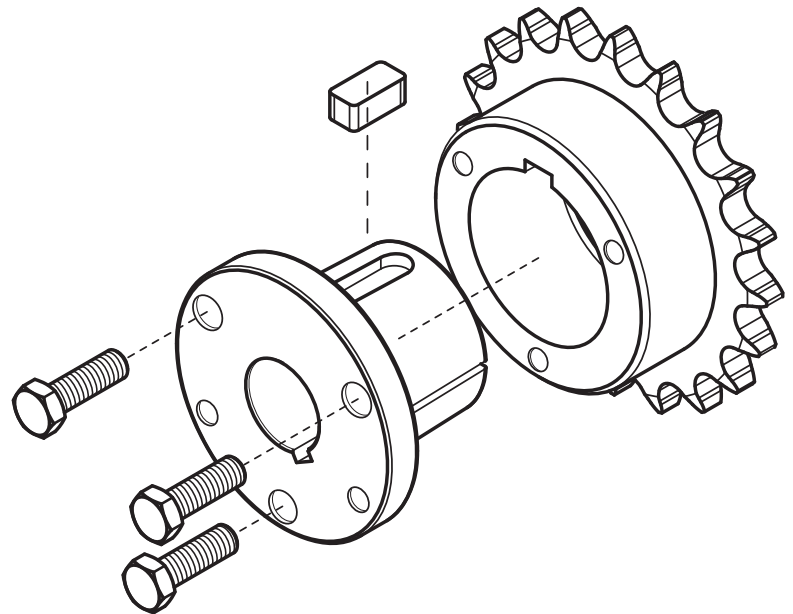
Sintered Steel		Gray Iron		Steel		Stainless Steel	
1008	.563			1008	.5	1008	.5
1108	.5			1108	.5	1108	
1210	.563			1210	.5	1210	.5
1215	.5			1215	.5	1215	
1310	.5			1310		1310	
1610	.5 1.313			1610	.5	1610	.5
1615	.5 1.313			1615	.5	1615	
2012	.5			2012	.5	2012	.5
2517	.5 1.563			2517	.5	2517	.5
		2525	2.125	2525		2525	
3020	.938 1.688	3020	.938 1.438 2.938	3020	.938	3020	.938
		3030	.938 2.438 2.938	3030		3030	
		3535	1.188 2.438 2.938	3535		3535	
		4040	1.438 3.438 3.938	4040		4040	
		4545	3.938 4.438	4545		4545	
		5050	2.438 3.938				
		6050	3.438 5.438				
		7060	3.938				
		8065	4.438				
		10085	7				
		H120100	8				

★ Not currently stocked. Consult factory for availability and pricing.

The MST® bushings are easy to install and remove. They are split through the barrel and have a taper to provide a true clamp on the shaft. They are keyed to both the shaft and the hub to help during “blind” installations.

INSTALLATION

1. Be sure the tapered cone surfaces of the bushing and the inside of the driven product are clean and free of anti-seize lubricants.
2. Place bushing in sprocket or other *Martin* MST® part.
3. Place cap screws loosely in pull-up holes. Bushing remains loose to assure sliding fit on shaft
4. With key on shaft, slide sprocket to desired position on shaft. Be sure heads of cap screws are accessible.
5. Align sprocket. Tighten screws alternately and progressively - until they are pulled up tight (see table below). Do not use extensions on wrench handles. Do not allow sprocket to be drawn in contact with flange of bushing. There should be a gap between bushing flange and sprocket. **CAUTION: THIS GAP MUST NOT BE CLOSED**



REMOVAL

1. Loosen and remove cap screws.
2. Insert cap screws in tapped removal holes.
3. Tighten inserted screws until sprocket is loose on shaft.
4. Remove sprocket from shaft.

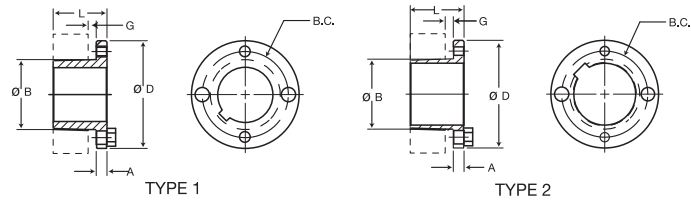
WRENCH TORQUE VALUE FOR TIGHTENING BUSHING

MST® Bushing Size	Size of Cap Screw	Wrench Torque in/lb
G	.25 × .625	95
H	.25 × .75	95
P	.313 × 1	192
Q	.375 × 1.25	348
R	.375 × 1.75	348
S	.5 × 2.25	840
U	.625 × 2.75	1680
W	.75 × 3	3000

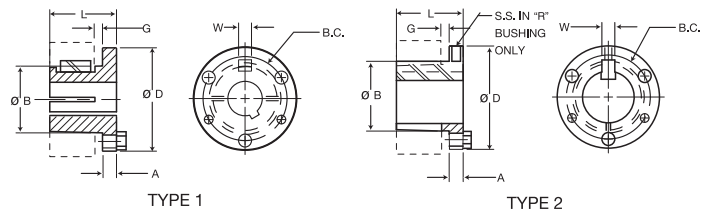
CAUTION

WARNING: USE OF ANTI-SEIZE LUBRICANT ON TAPERED CONE SURFACE OR ON BOLT THREADS WHEN MOUNTING MAY RESULT IN DAMAGE TO SHEAVE AND SPROCKETS. THIS VOIDS ALL MANUFACTURER’S WARRANTIES

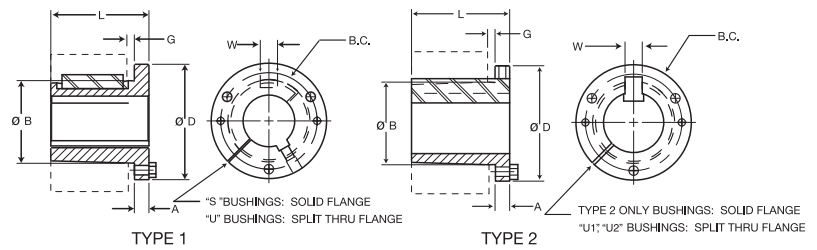
WARNING: Because of the possible danger to person(s) or property from accidents which may result from the improper use of products, it is important that correct procedures be followed: Products must be used in accordance with the engineering information specified in the catalog. Proper installation, maintenance and operation procedures must be observed. The instructions given above must be followed. Inspections should be made as necessary to assure safe operation under prevailing conditions. All rotating power transmission products when used in a drive are potentially dangerous and must be guarded by the user as required by applicable laws, regulations, standards, and good safety practice. (Refer to ANSI Standard B15.1.)



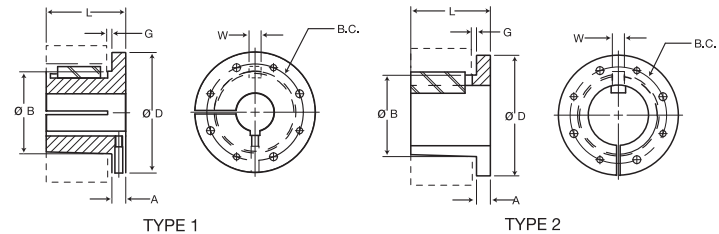
"G" & "H" BUSHINGS



"P", "Q" & "R" BUSHINGS



"S" & "U" BUSHINGS



"W" BUSHINGS



Bushing Specifications

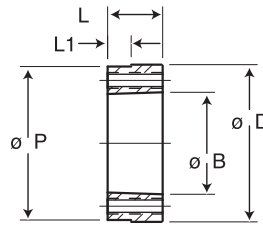
Part Number	Dimensions							Stock Bore Range		Cap Screws		Av. Wt. Lbs.	Wrench Torque In./lbs.
	D	L	A	B Large End	G	B.C.	W	Type 1	Type 2	No.	Size		
G	2	1.00	.25	1.172	.19	1.56	—	.375 – .938	1	2	.25 × .625	.5	95
H	2.5	1.25	.25	1.625	.19	2	—	.375 – 1.375	1.438 – 1.5	2	.25 × .75	.8	95
P1	3	1.94	.41	1.938	.22	2.44	.375	.5 – 1.438	1.5 – 1.75	3	.313 × 1	1.3	192
P2	3	2.94	.41	1.938	.22	2.44	.375	.75 – 1.438	1.5 – 1.75	3	.313 × 1	1.5	192
P3	3	4.44	.41	1.938	.22	2.44	.375	1.125 – 1.375	1.625	3	.313 × 1	2.0	192
Q1	4.12	2.50	.53	2.875	.22	3.38	.5	.75 – 2.063	2.125 – 2.688	3	.375 × 1.25	3.5	348
Q2	4.12	3.50	.53	2.875	.22	3.38	.5	1 – 2.063	2.125 – 2.625	3	.375 × 1.25	4.5	348
Q3	4.12	5.00	.53	2.875	.22	3.38	.5	1.375 – 2.063	2.125 – 2.5	3	.375 × 1.25	5.5	348
R1	5.38	2.88	.62	4	.25	4.62	.75	1.125 – 2.813	2.875 – 3.75	3	.375 × 1.75	7.5	348
R2	5.38	4.88	.62	4	.25	4.62	.75	1.375 – 2.813	2.875 – 3.625	3	.375 × 1.75	11.0	348
S1	6.38	4.38	.75	4.625	.31	5.38	.75	1.688 – 3.188	3.25 – 4.25	3	.5 × 2.25	13.5	840
S2	6.38	6.75	.75	4.625	.31	5.38	.75	1.875 – 3.188	3.25 – 4.188	3	.5 × 2.25	19.0	840
U0	8.38	5.25	1.06	6	.44	7	1.25	2.375 – 3.063	—	3	.625 × 2.75	30.0	1680
U0	8.38	4.94	.75	6	.44	7	1.25	3.25 – 4.25	4.375 – 5.5	3	.625 × 2.75	27.0	1680
U1	8.38	7.12	1.06	6	.44	7	1.25	2.375 – 4.25	4.375 – 5.5	3	.625 × 2.75	40.0	1680
U2	8.38	10.12	1.06	6	.44	7	1.25	2.438 – 4.25	4.375 – 5	3	.625 × 2.75	50.0	1680
W1	12.5	8.25	1.44	8.5	.44	10	1.25	3.375 – 6.188	6.25 – 7.438	4	.75 × 3	104.0	3000
W2	12.5	11.25	1.44	8.5	.44	10	1.25	3.375 – 6.188	6.25 – 7.438	4	.75 × 3	133.0	3000

All tapers are .75" per 12" on Diameter.

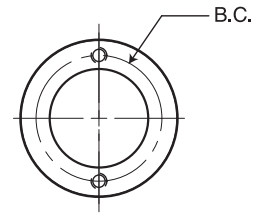
All dimensions are in inches except, as noted.

All bushings are cast iron, ductile iron, sintered steel, or steel. Consult manufacturer for clarification.

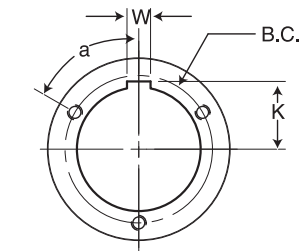
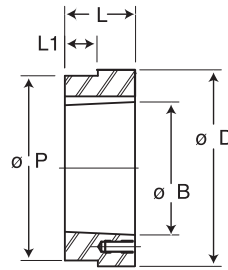
Metric bushings also available.



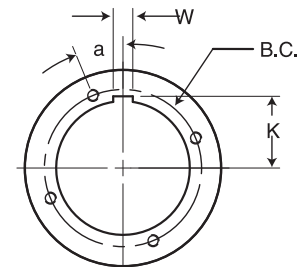
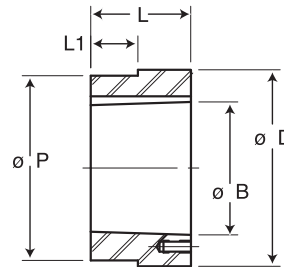
ALL TAPERS .75" PER FT.
ON DIAMETER



"H" HUBS



"P," "Q," "R," "S," "Y" "U" HUBS



"W" HUBS

Bushing Specifications

Part Number	For Bushing	Dimensions									Tapped Holes		Wt. Lbs.
		D	L	P	L1	B	K	B.C.	W	a°	No.	Size	
HH1	H	2.5	.88	2.375	.174	1.621	—	2	—	—	2	.25 – 20	.6
HCH1	H	2.5	.88	2.375	.625	1.621	—	2	—	—	2	.25 – 20	.7
HP1	P1	3.0	1.31	2.875	.292	1.938	1.094	2.438	.375	60	3	.313 – 18	1.4
HCP1	P1	3.0	1.31	2.875	1	1.938	1.094	2.438	.375	60	3	.313 – 18	1.1
HP2	P2	3	2.31	2.875	1.1	1.938	1.094	2.438	.375	60	3	.313 – 18	2.5
HQ1	Q1	4.5	1.75	4.375	.709	2.875	1.562	3.375	.5	60	3	.375 – 16	4.4
HCQ1	Q1	4.5	1.75	4.375	1.25	2.875	1.562	3.375	.5	60	3	.375 – 16	4.4
HQ2	Q2	4.5	2.75	4.375	1.606	2.875	1.562	3.375	.5	60	3	.375 – 16	6.9
HR1	R1	5.75	2.00	5.625	.709	4	2.188	4.625	.75	60	3	.375 – 16	7.3
HR2	R2	5.75	4.00	5.625	1.606	4	2.188	4.625	.75	60	3	.375 – 16	15.4
HS1	S1	6.75	3.31	6.5	.946	4.625	2.562	5.375	.75	60	3	.5 – 13	17.3
HS2	S2	6.75	5.69	6.5	2.963	4.625	2.562	5.375	.75	60	3	.5 – 13	30.4
HU0	U0	8.5	3.75	8.25	2	6	3.25	7	1.25	60	3	.625 – 11	32.0
HU1	U1	8.5	5.62	8.25	2.963	6	3.25	7	1.25	60	3	.625 – 11	44.6
HU2	U2	8.5	8.62	8.25	6.016	6	3.25	7	1.25	60	3	.625 – 11	69.0
HW1	W1	12.5	6.38	12.25	2.963	8.5	4.562	10	1.25	22.5	4	.75 – 10	130.0

All tapers are .75" per 12" on Diameter.

All dimensions are in inches, except as noted.

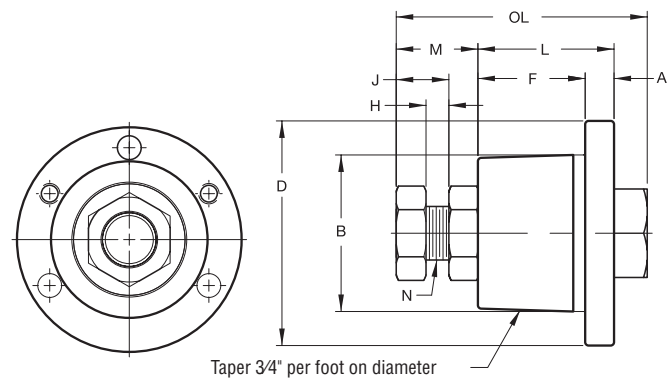
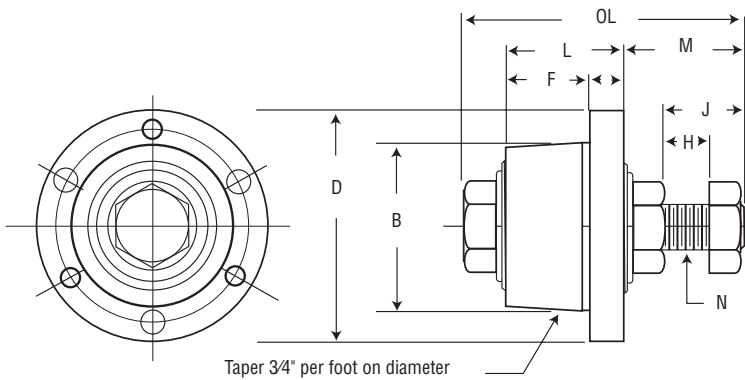
QD and MST® Idler Bushings



Martin Idler Bushings are designed to accommodate stock V-belt drives, sprockets, timing belt pulleys, or other products that use QD or MST® type bushings.

They are equipped with two electric motor grade, permanently lubricated ball bearings, mounted on a precision shoulder bolt. Shoulder bolt and two hex jam nuts are zinc plated.

Installation is made by slipping the threaded shaft through a hole bored in support structure, and tightening the locking nut. Sheaves, sprockets, or other products can be removed without dismounting the idler bushing. Available in sizes as shown below. Boxed complete with all mounting hardware and instructions.



QD Radial Load Ratings (lbs) 2500 Hours Service Life

Part Number	RPM				
	100	500	1000	1200	1800
SH-BB	1260	740	580	540	480
SD-BB	1740	1020	800	760	660
SK-BB	2370	1360	1070	1000	880
SF-BB	2550	1500	1180	1100	980
E-BB	4640	2720	2140	2020	1780

Service Temperature Range -40° F Minimum +248° F Maximum.

MST® Radial Load Ratings (lbs) 2500 Hours Service Life

Part Number	RPM				
	100	500	1000	1200	1800
H-BB 1/2	1411	825	655	616	538
P1-BB 5/8	1752	1024	813	765	668
Q1-BB 3/4	2344	1371	1088	1024	894
Q1-BB 1	2555	1494	1186	1116	975

Service Temperature Range -40° F Minimum +248° F Maximum.

Part Number	Dimensions									
	A	B	D	F	H	J	L	M	N	OL
SH-BB	.438	1.871	2.688	.75	.625	.938	1.313	1.313	.438	3.063
SD-BB	.5	2.187	3.188	1.25	.688	.688	1.813	1.563	.625	3.875
SK-BB	.563	2.812	3.875	1.25	.75	.813	1.938	1.75	.75	4.563
SF-BB	.563	3.125	4.625	1.25	.75	.938	2.063	2.125	.875	5
E-BB	.75	3.834	6	1.625	1.438	2.188	2.625	3.188	1.375	6.875
H-BB 1/2	.25	1.625	2.5	1	.375	1.063	1.25	1	.5	2.563
P1-BB 5/8	.406	1.937	3	1.531	.531	.922	1.938	1.313	.625	3.641
Q1-BB 3/4	.531	2.875	4.125	1.938	.313	.781	2.5	1.25	.75	4.219
Q1-BB 1	.531	2.875	4.125	1.938	.281	.891	2.5	1.5	1	4.609

COUPLINGS

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Coupling Comparison Chart



Selection Criterion	Coupling Type						
	ML - Jaw	Chain	Quadra-Flex	<i>Martin</i> -Flex	Go-Flex	Blue-Flex	
Shaft Size Range	inch	1/8" to 2-5/8"	7/16" to 6-1/8"	3/8" to 5-1/2"	3/8" to 3-1/2"	1/2" to 11"	1/2" to 13"
	mm	4 to 65	12 to 160	9 to 140	9 to 90	12 to 280	12 to 330
Torque Range	in-lbs	3.5 to 6,228	1,921 to 151,622**	60 to 72,480	649 to 9,076	365 to 1,680,000	460 to 1,650,000
	Nm	0.4 to 704	218 to 17,135	6.78 to 8,190	73 to 1025	40 to 189,840	52 to 186,450
Maximum Angular Misalignment Capability		1/2° to 1°	2°	1°	4°	2°	.25°
Temperature Range Standard Element		-40° to 212° F	-30° to 225° F	-30° to 275° F	-40° to 180° F	-60° to 212° F	-40° to 250° F
		-40° to 100° C	-35° to 108° C	-35° to 135° C	-40° to 85° C	-50° to 100° C	-40° to 121° C
Reactionary Loads due to Misalignment		Medium	Low	Low	Medium	Low	High
Torque to OD Capability		Good	Good	Fair	Fair	Fair	Good
Speed Capability		Good	Good	Fair	Fair	Good	Good
Torsional Stiffness		Low	Medium	Low	Low	Medium	Medium
Ease of Installation/Maintenance		Excellent	Excellent	Excellent	Excellent	Excellent	Fair
Chemical Resistance		Good	Good	Good	Fair	Good	Fair
Adaptable to Several Designs		Excellent	Poor	Excellent	Good	Excellent	Excellent
Damping Capacity		Good	Poor	Excellent	Excellent	Good	Good
Industry Interchangeable		Yes	Yes	Yes	Yes	Yes	Yes

** MAX Allowable Torque below 50 RPM

*** Half-Coupling ONLY

Whatever Your Need For Couplings — *Martin* Has Them

Martin Jaw Couplings

Two Complete Lines of Jaw Couplings. One for Greater Horsepower and One for Interchangeability.



ML — Type



MS — Type

Martin-Flex® flexible couplings

Smoothly transmit power while compensating for shaft misalignment to 4°, parallel misalignment to .125" and end float to .313". The two piece flange design provides quick and easy installation and the elastomeric element absorbs shock and torsional vibration through a wide temperature range.



Martin Chain Couplings

The most complete line of Chain Couplings available in the industry



S/B



BS



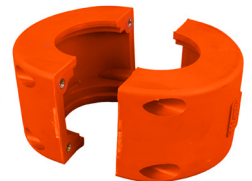
TB



QD



Aluminum



Plastic

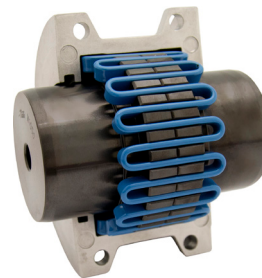
Martin Quadra-Flex®

A proven design which offers long life, torsional flexibility, ease of installation, and withstands misalignment, shock, and vibration.



Martin Blue-Flex® Grid Couplings

Are the best option where both high torque levels and dampening requirements exist.



Martin Go-Flex® Flexible Couplings

Is one of the easiest to install, maintain, and repair!

**Quadra-Flex®
4-Way Flexing**

Martin

QUADRA-FLEX® FLEXIBLE COUPLINGS



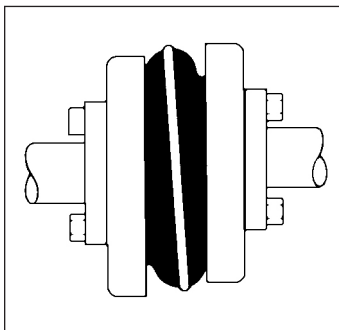
Stocked Nationwide
In Sizes 3 Through 16

Styles J, S, B, and
SC Spacers



Martin Quadra-Flex® Couplings, Non Lubricated,
Maintenance Free, Easy and Quick Installation

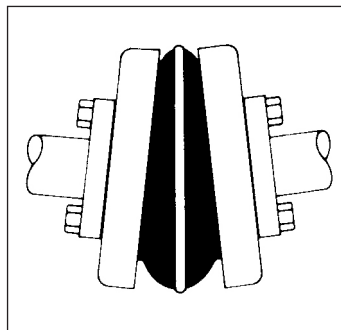
Handles All Combinations of Shock, Vibration, and Misalignment



Parallel

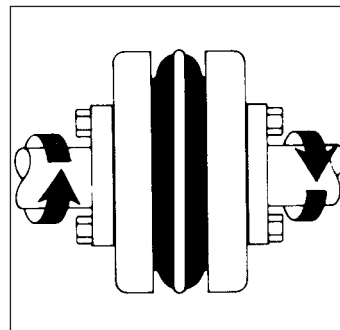
Quadra-Flex® couplings absorb parallel misalignment without wear and with minimal loss of energy.

The amount of parallel offset handled varies by size from .015" on the size 5 up to .062" on the size 16. This minimizes the radial loads on bearings when parallel misalignment occurs.



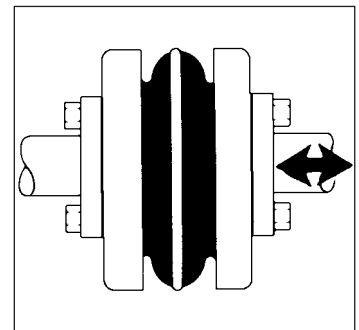
Angular

Due to the flexing characteristics of the sleeve and the locking action of the teeth, Quadra-Flex® couplings easily handle angular misalignment up to 1 degree without any appreciable wear.



Torsional

Quadra-Flex® sleeves are torsionally resilient and are well suited to absorbing shocks and dampening vibrations that would otherwise be transmitted between the equipment.



S/B

The axial flexibility of the sleeve allows the Quadra-Flex® coupling to accept a limited amount of end float. This serves to reduce thrust loads transferred to bearings. Quadra-Flex® units will accept axial movement of approximately .125".

Available in Three Styles

Type J and S Flanges

Bored-to-size flanges are manufactured for a slip fit on standard shafting. Available from stock in a wide range of shaft sizes.



Available in Three Styles

Manufactured from high strength cast iron to fit standard QD bushings in sizes 6 thru 16.



Fast Coupling Disassembly

Martin offers the first true drop-out spacer assembly for the 4JSC spacer coupling. The center portion of the spacer can be taken out, just as in the 5SC thru 14SC, by simply removing four cap screws in each hub. The couplings center section can then be lifted out and the pump gaskets exposed. Flats on the spacer hubs facilitate turning shafts with a wrench.



Type SC Spacer Flange

Quadra-Flex® SC Spacer Couplings feature all standard spacing requirements for the pump industry. Spacer sizes range from sizes 4 thru 14.



Quadra-Flex® Nomenclature

Type	Description
J ★	SINTERED STEEL, BORED-TO-SIZE
S	CAST IRON, BORED-TO-SIZE
B	CAST IRON, QD BUSHED
SC	SPACER COUPLING FLANGES

★ #6 Currently Supplied in Cast Iron

Hubs — (For SC flanges)

Type	Description
H	REGULAR LENGTH
HS	SHORT LENGTH

Quadra-Flex® couplings come in a variety of styles and designs to meet specific customer needs. These include flanges and sleeves of various types and materials. The total product line includes 13 sizes varying in torque ratings up to 72,000 in-lbs.

When ordering Quadra-Flex® couplings, the following basic procedure should help expedite order processing. For coupling flanges, give the basic coupling size, then the letter for the type flange followed by the bore size required. For coupling sleeves, give the coupling size followed by the letter(s) designating the type and material required. (See above)

The following are various examples for reference:

Example: Type J Flange

	Size	Flange	Bore
5J × .75"	5	J	.75"
7S × 30mm	7	S	30mm

(Note: Bored-to-size flanges are furnished with standard keyway and 2 setscrews unless specified otherwise.)

Sleeves

Type	Description
JEM	TPR – 1-PIECE SOLID, THERMOPLASTIC
JEMS	TPR – 1-PIECE SPLIT, THERMOPLASTIC
EM	TPR – 2-PIECE W/RETAINING RING
E	EPDM – 2-PIECE W/RETAINING RING
N	NEOPRENE – 2-PIECE W/RETAINING RING
H	HYTREL – 1-PIECE SOLID
HS	HYTREL – 2-PIECE

Example: Type B Flange

	Size	Flange	Bushing
8B — SH	8	B	SH

(Note: The SH bushing with required bore size should be specified separately.)

Example: Sleeves

	Size	Style & Material
8JEM	8	Solid, TPR
13E	13	2 Piece, EPDM

(Note: Unless specified, TPR (3 thru 12) or EPDM (13 thru 16) will be supplied.)

Example: Complete spacer coupling

1	6EM	(6 TPR 2 Piece Sleeve)
2	6sc35	(Flanges for 3.5" dropout)
1	6H × 1"	(6 Spacer Hub for 1" Bore)
1	6H × 1.125"	(6 Spacer Hub for 1.125" Bore)

Sleeve Selection



Quadra-Flex® coupling sleeves are available in four different types of compounds. These include TPR (Thermoplastic Rubber) in types JEM, JEMS, EM; EPDM Rubber in type E; Neoprene in type N; Hytrel in type H and HS. To determine the sleeve best suited for the application, the material characteristics are given below.

TPR (Sizes 3-12)

Quadra-Flex® couplings are usually supplied with TPR sleeves in sizes 3-12. TPR is a general use sleeve which combines the characteristics of both EPDM & Neoprene into one. These sleeves operate within a temperature range from -50° F to +275° F (-46° C to +135° C). Torsional flexibility is 15°.

EPDM (Sizes 13-16)

Quadra-Flex® couplings are usually supplied with EPDM rubber sleeves in sizes 13-16. EPDM is a general use sleeve and can operate within a temperature range from -30° F to +275° F (-34° C to +135° C). Torsional flexibility is 15°.

NEOPRENE (Sizes 11-16)

Neoprene flexible sleeves are also available in sizes 11-14. These sleeves offer a higher resistance than EPDM and are self-extinguishing. Operating temperature range for this sleeve is 0° F to +200° F (-18° C to +93° C). Torsional flexibility is 15°.

*HYTREL® (Sizes 6-14)

Hytrel sleeves are molded specifically for high torque applications. The type H will transmit approximately four times as much power as an equivalent TPR, EPDM, or Neoprene sleeve. Hytrel has an operating temperature from -65° F to +250° F (-54° C to +121° C). Torsional flexibility is 7°.

Note: Do not use a Hytrel sleeve as a replacement for a TPR, EPDM, or Neoprene sleeve.

Sleeve Chemical Resistance

Resistance To:	TPR	EPDM	Neoprene	Hytrel ★	Resistance To:	TPR	EPDM	Neoprene	Hytrel ★
Acetone	A	A	B	B	Kerosene	B	X	B	T
Ammonia, Anhydrous	B	T	A	N	Lacquer Solvents	T	...	C	B
Ammonium Hydroxide Solutions	T	A	A(158F)	T	Lubricating Oils	B	X	B(158F)	A
ASTM hydrocarbon test fluid	N	C	X	A	Methyl Alcohol	A	T	A(158F)	A
ASTM oil no. 1	B	C	A	A	Mineral Oil	B	X	A	A
ASTM oil no. 3	B	C	B(158F)	A	Naphtha	B	C	C	A
ASTM reference fuel A	B	C	A	A	Nitric Acid, 10%	A	T	B	B
ASTM reference fuel B	B	C	C	A	Nitrobenzene	T	A	C	C
ASTM reference fuel C	B	X	C	B	Phenol	T	T	B	C
Benzene	C	C	C	B	Phosphoric Acid, 20%	A	T	T	N
Butane	B	B	A	A	Phosphate Esters	A	A	C	A
Carbon Tetrachloride	X	C	C	C	Pickling Solution (20% Nitric Acid, 4% HF)	N	X	B-C	X
Chlorobenzene	C	X	X	X	Soap Solutions	A	T	A(158F)	A
Chloroform	X	C	C	C	Sodium Hydroxide, 20%	A	A	A	A
Chromic Acid, 10-50%	T	T	C	N	Stearic Acid	T	T	B(158F)	T
Dowtherm A Solvent	X	N	B	N	Sulfuric Acid, up to 50%	A	T	A(158F)	A
Ethyl Alcohol	A	A	A(158F)	A	Sulfuric Acid, up to 80%	A	T	B-C	C
Ethylene Glycol	A	A	A(158F)	A	Tannic Acid, 10%	T	T	A	T
Fuel Oil	B	X	A	A	Toluene	C	C	C	B
Gasoline	B	B-C	B	A	Trichloroethylene	C	X	C	C
Glycerine	A	T	A(158F)	A	Turpentine	B	C	C	N
Hydraulic Oils	B	N	A	A	Water	A	A(158F)	A(212F)	A(158F)
Hydrochloric Acid, 20%	A	T	A	B	Xylene	C	C	X	B
Hydrogen Peroxide, 881/2%	N	T	B	T					
Isopropyl	A	T	A	A					

A — Fluid has little or no effect
 B — Fluid has minor to moderate effect
 C — Fluid has severe effect

N — No evaluation has been attempted.
 T — No data; likely to be compatible
 X — No data; not likely to be compatible

*Hytrel is a Registered Trademark of Dupont

Selection Procedure

When the driver is an electric motor with standard speed.

Step 1. Determine Service Factor (SF) Symbol based on equipment listed on page C-10.

Step 2. Determine proper Service Factor from chart at top of page C-10.

Step 3. Refer to page C-12 and C-13 for proper selection of coupling. Based on chemical resistance and operating environment found on page C-8, select from chart the type of sleeve material. Find RPM of motor, then, in the column for service factor determined in Step 2, read down to the corresponding horsepower of motor being used as the driver. The number listed is the correct coupling size.

Example: A coupling is needed to connect a 25 HP standard electric motor to a lumber log haul at 1750 RPM.

1. Service Factor Symbol — H
2. Service Factor — 2.0
3. Coupling Size — 9 with TPR sleeve or 6 with Hytrel Sleeve

Step 4. Select flanges from pages C-15 thru C-19, check coupling bore size range for proper shaft fit.

★ **NOTE: Do not oversize coupling hub — will cause premature wear of element.**

When the driver is other than an electric motor or the speeds are different than those shown in the chart on page C-11.

Step 1. Follow steps 1 & 2 in previous procedure.

Step 2. Calculate Horsepower at 100 RPM as follows:

$$\text{HP at 100 RPM} = \frac{\text{HP} \times \text{Service Factor} \times 100}{\text{Coupling RPM}}$$

Step 3. Select coupling size from Tables A or C. Find a HP equal to or greater than the HP/100 RPM

Step 4. Check Maximum bore to be sure that both shaft sizes do not exceed figure listed for size selected in step 4. If maximum is exceeded select the next largest size which will allow for bore size. Do not exceed maximum RPM for new size selected.

Example: A bucket elevator is driven by a motor/reducer and requires a coupling to transmit 14 HP at 1300 RPM.

1. Service Factor Symbol — M
2. Service Factor — 1.5
3. HP at 100 RPM = $\frac{14 \times 1.5 \times 100}{1300} = 1.61 \text{ HP/100 RPM}$
4. Refer to page C-11; under column for 100 RPM the required 1.61 HP falls between the size 7 (1.2) and the size 8 (1.8). Correct selection is size 8 with TPR sleeve. Check bore sizes for flanges on pages C-15 thru C-19.

Maximum RPM and Allowable Misalignment

Size	Maximum RPM	Types JEM, JEMS, EM, E and N		Types H and HS	
		Parallel	Angular	Parallel	Angular
3	9200	0.010	0.035	—	—
4	7600	0.010	0.043	—	—
5	7600	0.015	0.056	—	—
6	6000	0.015	0.070	0.010	0.016
7	5250	0.020	0.081	0.012	0.020
8	4500	0.020	0.094	0.015	0.025
9	3750	0.025	0.109	0.017	0.028
10	3600	0.025	0.128	0.020	0.032
11	3600	0.032	0.151	0.022	0.037
12	2800	0.032	0.175	0.025	0.042
13	2400	0.040	0.195	0.030	0.050
14	2200	0.045	0.242	0.035	0.060
16	1500	0.062	0.330	—	—

Note: Values shown above apply if the actual torque transmitted is more than 1/4 the coupling rating. For lesser torque, reduce the above values by .5.

Service Factors For Quadra-Flex® Couplings

Service Factor Symbol	Electric Motor Standard Torque	Electric Motor High Torque	Turbines	Reciprocating Engines
L (LIGHT)	1.25	1.5	1.0	1.5
M (MEDIUM)	1.5	2.0	1.25	2.0
H (HEAVY)	2.0	2.5	1.5	2.5

Table 1

Application	SF Symbol	Application	SF Symbols	Application	SF Symbols
AGITATORS - Paddle, Propeller, Screw	L	DISC FEEDER	L	MILLS	
BAND RESAW	M	DOUGH MIXER	M	Ball, Pebble, Rod, Tube	H
BARGE HAUL PULLER	H	DRAW BENCH CONVEYOR & Main Drive	H	Rubber, Tumbling	H
BARKING (Lumber)	H	DREDGES		Dryer and Cooler	M
BAR SCREEN (sewage)	L	Cable Reel, Pumps	M	MIXER	
BATCHES (textile)	L	Cutter Head Drive, Jig Drive	H	Concrete, Muller	M
BEATER AND PULPER (paper)	M	Screen Drive	H	Banbury	H
BENDING ROLL (metal)	M	Maneuvering and Utility Winch	M	ORE CRUSHER	H
BLEACHER (paper)	L	Stacker	M	OVEN CONVEYOR	L
BLOWERS		DYNAMOMETER	L	PLANER (metal or wood)	M
Centrifugal, Vane	L	DRYERS (rotary)	M	PRESSES	
Lobe	M	EDGER (lumber)	H	Brick, Briquette Machine	H
BOTTLING MACHINERY	L	ELEVATORS		Notching, Paper, Punch, Printing	M
BREW KETTLES (distilling)	L	Bucket	M	PUG MILL	M
BUCKET ELEVATOR OR CONVEYOR	M	Escalator	L	PULP GRINDER (paper)	H
CALENDERS		Freight, Passenger, Service, Man Lift	H	PULVERIZERS	
Calender (paper)	M	ESCALATORS	L	Hammermill — light duty, Roller	M
Calender-super (paper, rubber)	H	EXTRUDER (metal)	H	Hammermill — heavy duty, Hog	H
CANE KNIVES (sugar)	M	FANS		PUMPS	
CARD MACHINE (textile)	H	Centrifugal	L	Centrifugal, Axial	L
CAR DUMPERS	H	Cooling Tower	H	Gear, Lobe, Vane	M
CEMENT KILN	H	Forced Draft, Large Industrial, Mine	M	Reciprocating — sgl. or dbl. acting	*
CENTRIFUGAL BLOWERS		FEEDERS		REEL, REWINDER (paper) CABLE	M
COMPRESSORS, FANS or PUMPS	L	Apron, Belt, Disc	L	ROD MILL	H
CHEMICAL FEEDERS (sewage)	L	Reciprocating	H	SAWDUST CONVEYOR	L
CHILLER (oil)	M	Screw	M	SCREENS	
CHIPPER (paper)	H	FILTER, PRESS-OIL	M	Air Washing, Water	L
CIRCULAR RESAW	M	GENERATORS		Rotary for coal or sand	M
CLARIFIER or CLASSIFIER	L	Uniform load	L	Vibrating	H
CLAY WORKING MACHINERY	M	Varying load, Holst	M	SCREW CONVEYOR	L
COLLECTORS (sewage)	L	Welders	H	SLAB CONVEYOR (lumber)	M
COMPRESSORS		GRIT COLLECTOR (sewage)	L	SLITTERS (metal)	M
Centrifugal	L	GRIZZLY	H	SOAPERS (textile)	L
Reciprocating	*	HAMMERMILL		SORTING TABLE (lumber)	M
Screw, Lobe	L	Light Duty, Intermittent	M	SPINNER (textile)	M
CONCRETE MIXERS	M	Heavy Duty, Continuous	H	STOKER	L
CONVERTING MACHINE (paper)	M	HOISTS		SUCTION ROLL (paper)	M
CONVEYORS		Heavy Duty	H	TENTER FRAMES (textile)	M
Apron, Assembly Belt, Flight	L	Medium Duty	M	TIRE BUILDING MACHINES	H
Oven, Screw	L	JORDAN (paper)	H	TIRE & TUBE PRESS OPENER	L
Bucket	M	KILN, ROTARY	H	TUMBLING BARRELS	H
COOKERS- Brewing, Distilling, Food	L	LAUNDRY WASHER or TUMBLER	H	WASHER and THICKENER (paper)	M
COOLING TOWER FANS	H	LINE SHAFTS	L	WINCHES	M
COUCH (paper)	M	LOG HAUL (lumber)	H	WINDERS, Paper, Textile, Wire	M
CRANES & HOISTS		LOOM (textile)	M	WINDLASS	M
Heavy Duty Mine	H	MACHINE TOOLS, MAIN DRIVE	M	WIRE	
CRUSHERS — Cane (sugar), Stone, Ore	H	MANGLE (textile)	L	Drawing	H
CUTTER — Paper	H	MASH TUBS (distilling)	L	Winding	M
CYLINDER (paper)	H	MEAT GRINDER	M	WOODWORKING MACHINERY	L
DEWATERING SCREEN (sewage)	M	METAL FORMING MACHINES	M		

Coupling Rating

Table 2A **Thermoplastic Rubber (TPR), EPDM & Neoprene**

Coupling Size	Sleeve Construction	Basic HP Rating Per Given RPM					Rated Torque (in-lb)	Torsional • Stiffness Factor (in-lb/radians)	Maximum RPM
		100	860	1160	1750	3500			
3	TPR	0.12	1.1	1.4	2.2	4.3	78	229	9200
4	TPR	0.25	2.1	2.9	4.3	8.7	156	458	7600
5	TPR	0.50	4.3	5.7	8.7	17	312	916	7600
6	TPR	0.93	8	11	16	32	585	1718	6000
7	TPR	1.5	13	17	26	52	940	2769	5250
8	TPR	2.3	20	27	41	82	1475	4335	4500
9	TPR	3.7	32	43	65	130	2340	6875	3750
10	TPR	5.9	51	69	104	207	3735	10980	3600
11	TPR	9.3	80	108	164	327	5890	17300	3600
12	TPR	15	128	172	260	-	9360	27500	2800
13	EPDM & Neoprene	23	201	271	410	-	14750	43350	2400
14	EPDM & Neoprene	37	319	431	650	-	23400	68755	2200
16	EPDM	75	645	870	-	-	47250	180480	1500

Table 2C

Hytrell

Coupling Size	Sleeve Construction	Basic HP Rating Per Given RPM					Rated Torque (in-lb)	Torsional • Stiffness Factor (in-lb/radians)	Maximum RPM
		100	860	1160	1750	3500			
3★	HYTREL	-	-	-	-	-	-	-	-
4★	HYTREL	-	-	-	-	-	-	-	-
5★	HYTREL	-	-	-	-	-	-	-	-
6	HYTREL	2.90	25	33	50	100	1800	10000	6000
7	HYTREL	4.6	39	53	80	160	2875	20000	5250
8	HYTREL	7.2	62	83	126	252	4530	30000	4500
9	HYTREL	11.4	98	133	200	400	7200	47500	3750
10	HYTREL	18	155	209	315	630	11350	100000	3600
11	HYTREL	29	246	331	500	1000	18000	125000	3600
12	HYTREL	50	430	580	875	-	31500	225000	2800
13	HYTREL	75	645	870	1312	-	47268	368900	2400
14	HYTREL	115	989	1334	2013	-	72480	593250	2200

- ★ Hytrell sleeves are available on a made-to-order basis, Consult factory.
- Values shown are for an ambient temperature of 75° F (24° C)

Sleeve Selection Chart



Selection Chart for TPR¹, EPDM, & Neoprene Sleeves

HP	860 RPM Motor					1160 RPM Motor					1750 RPM Motor					3500 RPM Motor				
	Service Factor					Service Factor					Service Factor					Service Factor				
	1.0	1.25	1.5	2.0	2.5	1.0	1.25	1.5	2.0	2.5	1.0	1.25	1.5	2.0	2.5	1.0	1.25	1.5	2.0	2.5
.5	3	3	3	4	4	3	3	3	3	4	3	3	3	3	3	—	—	—	—	—
.75	3	4	4	4	5	3	3	4	4	4	3	3	3	3	4	3	3	3	3	3
1	4	4	4	5	5	3	4	4	4	5	3	3	3	4	4	3	3	3	3	3
1.5	4	5	5	5	6	4	4	5	5	5	3	4	4	4	5	3	3	3	3	4
2	5	5	5	6	6	4	5	5	5	6	4	4	4	5	5	3	3	3	4	4
3	5	6	6	6	7	5	5	6	6	6	4	5	5	5	6	3	4	4	4	5
5	6	6	7	7	8	6	6	6	7	7	5	5	6	6	6	4	4	5	5	5
7.5	7	7	8	8	9	6	7	7	8	8	6	6	6	7	7	5	5	5	6	6
10	7	8	8	9	9	7	7	8	8	9	6	6	7	7	8	5	5	6	6	6
15	8	9	9	10	10	8	8	9	9	10	7	7	8	8	9	6	6	6	7	7
20	9	9	10	10	11	8	9	9	10	10	7	8	8	9	9	6	6	7	7	8
25	9	10	10	11	11	9	9	10	10	11	8	8	9	9	10	6	7	7	8	8
30	10	10	11	11	12	9	10	10	11	11	8	9	9	10	10	7	7	8	8	9
40	10	11	11	12	12	10	10	11	11	12	9	9	10	10	11	7	8	8	9	9
50	11	11	12	12	13	10	11	11	12	12	9	10	10	11	11	8	8	9	9	10
60	11	12	12	13	13	11	11	12	12	13	10	10	11	11	12	8	9	9	10	10
75	12	12	13	13	14	11	12	12	13	13	10	11	11	12	12	9	9	10	10	11
100	12	13	13	14	14	12	12	13	13	14	11	11	12	12	13	9	10	10	11	11
125	13	13	14	14	—	12	13	13	14	14	11	12	12	13	13	10	10	11	11	—
150	13	14	14	16	16	13	13	14	14	16	12	12	13	13	14	10	11	11	—	—
200	14	14	16	16	16	13	14	14	16	16	12	13	13	14	14	11	11	—	—	—
250	14	16	16	16	16	14	14	16	16	16	13	13	14	14	—	11	—	—	—	—
300	16	16	16	16	—	14	16	16	16	16	13	14	14	—	—	—	—	—	—	—
350	16	16	16	—	—	16	16	16	16	16	14	14	—	—	—	—	—	—	—	—
400	16	16	16	—	—	16	16	16	16	—	14	14	—	—	—	—	—	—	—	—
450	16	16	—	—	—	16	16	16	—	—	14	—	—	—	—	—	—	—	—	—
500	16	16	—	—	—	16	16	16	—	—	14	—	—	—	—	—	—	—	—	—
600	16	—	—	—	—	16	16	—	—	—	—	—	—	—	—	—	—	—	—	—
700	—	—	—	—	—	16	16	—	—	—	—	—	—	—	—	—	—	—	—	—
800	—	—	—	—	—	16	—	—	—	—	—	—	—	—	—	—	—	—	—	—

¹ Thermoplastic Rubber

Caution: Applications involving reciprocating engines and reciprocating driven devices are subject to critical rotational speeds which may damage the coupling and/or connected equipment. Contact factory with specific requirements.



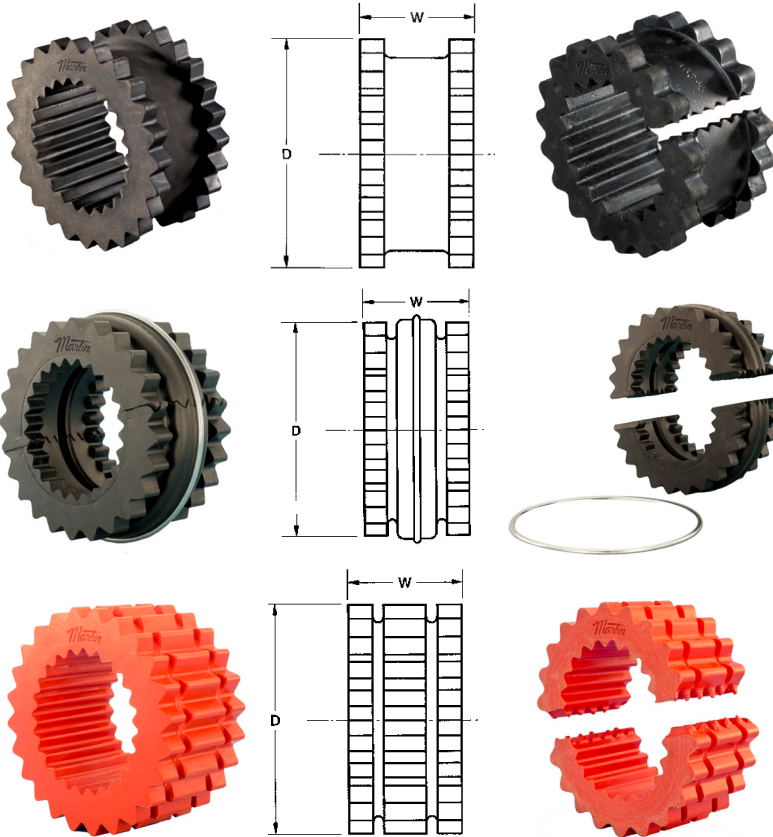
Hytrell Selection Chart

Selection Chart for Hytrell Sleeves

HP	860 RPM Motor					1160 RPM Motor					1750 RPM Motor					3500 RPM Motor				
	Service Factor					Service Factor					Service Factor					Service Factor				
	1.0	1.25	1.5	2.0	2.5	1.0	1.25	1.5	2.0	2.5	1.0	1.25	1.5	2.0	2.5	1.0	1.25	1.5	2.0	2.5
1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7.5	6H	6H	6H	6H	6H	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10	6H	6H	6H	6H	6H	6H	6H	6H	6H	6H	—	—	—	—	—	—	—	—	—	—
15	6H	6H	6H	7H	7H	6H	6H	6H	6H	7H	6H	6H	6H	6H	6H	—	—	—	—	—
20	6H	6H	7H	7H	8H	6H	6H	6H	7H	7H	6H	6H	6H	6H	6H	—	—	—	—	—
25	6H	7H	7H	8H	8H	6H	6H	7H	7H	8H	6H	6H	6H	6H	7H	—	—	—	—	—
30	7H	7H	8H	8H	9H	6H	7H	7H	8H	8H	6H	6H	6H	7H	7H	6H	6H	6H	6H	6H
40	7H	8H	8H	9H	9H	7H	7H	8H	8H	9H	6H	6H	7H	7H	8H	6H	6H	6H	6H	6H
50	8H	8H	9H	9H	10H	7H	8H	8H	9H	9H	6H	7H	7H	8H	8H	6H	6H	6H	6H	7H
60	8H	9H	9H	10H	10H	8H	8H	9H	9H	10H	7H	7H	8H	8H	9H	6H	6H	6H	7H	7H
75	9H	9H	10H	10H	11H	8H	9H	9H	10H	10H	7H	8H	8H	9H	9H	6H	6H	7H	7H	8H
100	9H	10H	10H	11H	11H	9H	9H	10H	10H	11H	8H	8H	9H	9H	10H	6H	7H	7H	8H	8H
125	10H	10H	11H	11H	12H	9H	10H	10H	11H	11H	8H	9H	9H	10H	10H	7H	7H	8H	8H	9H
150	10H	11H	11H	12H	12H	10H	10H	11H	11H	12H	9H	9H	10H	10H	11H	7H	8H	8H	9H	9H
200	11H	11H	12H	12H	13H	10H	11H	11H	12H	12H	9H	10H	10H	11H	11H	8H	8H	9H	9H	10H
250	11H	12H	12H	13H	13H	11H	11H	12H	12H	13H	10H	10H	11H	11H	12H	8H	9H	9H	10H	10H
300	12H	12H	13H	13H	14H	11H	12H	12H	13H	13H	10H	11H	11H	12H	12H	9H	9H	10H	10H	11H
350	12H	12H	13H	14H	14H	12H	12H	12H	13H	14H	11H	11H	12H	12H	12H	9H	10H	10H	11H	11H
400	12H	13H	13H	14H	14H	12H	12H	13H	13H	14H	11H	11H	12H	12H	13H	9H	10H	10H	11H	11H
500	13H	13H	14H	14H	—	12H	13H	13H	14H	14H	11H	12H	12H	13H	13H	10H	10H	11H	11H	—
600	13H	14H	14H	—	—	13H	13H	13H	14H	—	12H	12H	13H	13H	14H	10H	11H	11H	—	—
700	14H	14H	—	—	—	13H	13H	14H	14H	—	12H	12H	13H	14H	14H	11H	11H	—	—	—
800	14H	14H	—	—	—	13H	14H	14H	—	—	12H	13H	13H	14H	14H	11H	11H	—	—	—
900	14H	—	—	—	—	14H	14H	14H	—	—	13H	13H	14H	14H	—	11H	—	—	—	—
1000	—	—	—	—	—	14H	14H	—	—	—	13H	13H	14H	14H	—	11H	—	—	—	—

Quadra-Flex® Sleeves

Martin flexible sleeve elements are offered in four material compounds (Thermoplastic Rubber (TPR), EPDM, Neoprene, and Hytrel) available in three construction styles. Our EM sleeve offers the combination of EPDM's extended temperature range as well as the higher oil resistance which Neoprene provides.



Types JEM — JEMS

Type J sleeves are molded Thermoplastic Rubber (TPR). Available in 1 piece solid (JEM), and 1 piece split, construction (JEMS). TPR material will handle higher temperature ranges as well as be oil resistant.

Types EM — E — N

Type EM, E, and N sleeves are of two piece molded construction with Retaining Ring. They are available in Thermoplastic Rubber (Type TPR), EPDM (Type E), or Neoprene (Type N). These can be used with any type flanges within a given size range.

Types H & HS

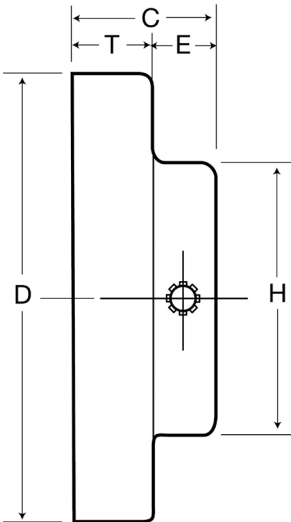
Martin H & HS sleeves are molded Hytrel for higher torque loading than standard EM sleeves. H & HS sleeves cannot be used with style J and B flanges. Hytrel sleeves are not a direct replacement for TPR, EPDM, or Neoprene sleeves.

Dimensions (Inches)

Coupling Size	JEM — JEMS Sleeves			EM — E — N Sleeves			H & HS Sleeves Hytrel •		
	D	W	Wt. (lb)	D	W	Wt. (lb)	D	W	Wt. (lb)
3	1.875	1	.06	—	—	—	—	—	—
4	2.313	1.25	.10	2.313	1.25	.11	—	—	—
5	2.938	1.563	.20	2.938	1.563	.25	—	—	—
6	3.75	1.875	.35	3.75	1.875	1.0	3.75	1.875	.44
7	4.344	2.188	.50	4.344	2.188	.77	4.344	2.188	.69
8	5.063	2.5	.85	5.063	2.5	1.4	5.063	2.5	1.4
9	6	3	2.00	6	3	2.0	6	3	1.8
10	7.063	3.438	2.20	7.063	3.438	2.9	7.063	3.438	3.00
11	—	—	—	8.188	4	4.67	8.188	4	4.70
12	—	—	—	9.563	4.688	8.1	9.563	4.688	8.00
13	—	—	—	11.188	5.5	13.0	11.188	5.5	11.8
14	—	—	—	13.094	6.5	21.1	13.094	6.5	19.3
16	—	—	—	17.906	8.75	53.0	—	—	—

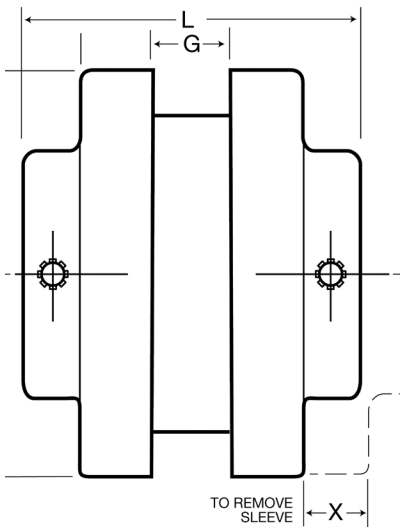
• 13 & 14 Hytrel available with HS sleeves only.

Quadra-Flex® Type J Flanges



Quadra-Flex® Type J Flanges

Martin Type J Flanges are supplied bored to size with standard keyway and two setscrews to slip fit on standard shafting.



Type J Flanges use the *Martin* JEM 1 Piece, the *Martin* JEMS 1 piece split and the *Martin* EM 2 piece split sleeves.

(Note: Hytrel sleeves are not intended for use with this type of flange.)

Dimensions (Inches)

Coupling Size	Dimensions								Weight (lb) ★	Finished Bore Sizes •						Max. Bore	Millimeters						
	C	D	E	G	H	L	T	X		(Inches)													
3J	.813	2.062	.438	.375	1.25	2	.375	.563	.26	.375**	.5	.625	.75			.75	—	—	—				
	.813	2.062	.438	.375	1.5	2	.375	.563	.26				.875		.875	—	—	—					
4J	.875	2.460	.438	.625	1.625	2.375	.438	.75	.47		.5	.625	.75	.875	.938	1	1	15	20	25			
5J	.688	3.25	.469	.75	1.875	2.875	.594	.969	.86		.5	.625	.75	.875	.938	1	1.125	—	—	—			
6J	.531	4	.594	.875	1.938	3.313	.625	1.094	1.73			.625	.75	.875	.938	1	—	—	—	—			
	.531	4	.594	.875	2.5	3.313	.625	1.094	1.70								1.125	1.188	1.25	1.375	1.375	—	—

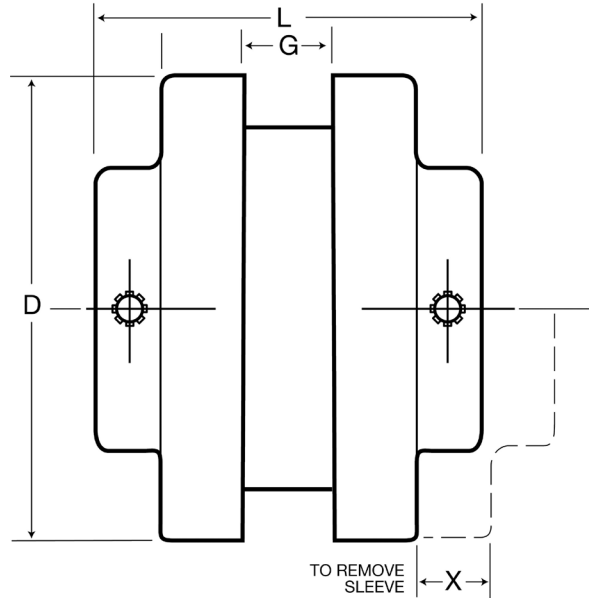
★ Approximate weight for each flange.
 ** .375" Bore has no Keyway
 • J flanges can be rebored if necessary.

Type S Flanges



Quadra-Flex® Type S Couplings (Bored to Size)

Type S flexible coupling flanges are bored to size to fit on any standard shaft. They are produced from high strength cast iron. Units are easy to install and remove and are stocked in a wide range of bore sizes as shown on the next page.



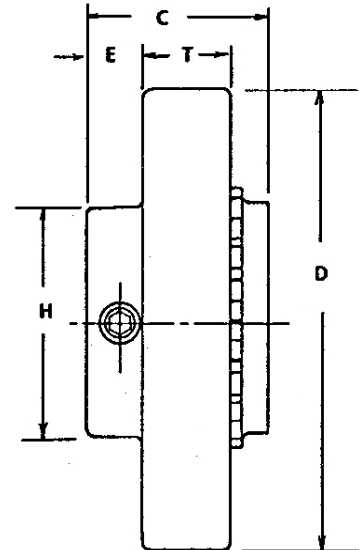
Dimensions

Coupling Size	Flange Diameter (D)	Bore (Inches)			Hub (Inches)			G	L	T	X	Weight (lb) •
		Stock	Rec. Max. ★	Rec. Max. ★★	Hub Diameter (H)	Length Thru (C)	Hub Projected (E)					
5S	3.25	.5	1.188	1.25	1.875	1.375	.453	.75	2.813	.594	.969	1.0
6S	4	.625	1.438	1.5	2.5	1.625	.531	.875	3.5	.75	1.094	2.1
	4	.625	—	1.875	2.5	1.563	.813	.875	4	.75	1.094	2.1
7S	4.625	.625	1.625	1.875	2.813	1.844	.688	1	3.938	.781	1.313	2.7
8S	5.45	.75	1.938	2.25	3.25	.719	.75	1.125	4.438	.906	1.5	4.5
	5.45	.75	—	2.375	3.25	1.938	1.031	1.125	5	.906	1.5	4.5
9S	6.35	.875	2.375	2.5	3.625	2.406	.781	1.438	5.063	1.031	1.75	6.5
	6.35	.875	—	2.875	4.125	2.281	1.25	1.438	6	1.031	1.75	6.5
10S	7.5	1.125	2.75	3.125	4.375	2.719	.813	1.625	5.688	1.219	2	11.3
	7.5	1.125	—	3.375	4.75	2.688	1.469	1.625	7	1.219	2	11.3
11S	8.625	1.25	3.375	3.625	5.25	3.438	1.125	1.875	7.125	1.5	2.375	17.6
	8.625	1.25	—	3.875	5.625	3.063	1.563	1.875	8	1.5	2.375	17.6
12S	10	1.5	3.875	3.938	5.75	4	.594	2.313	8.25	1.688	2.688	27.2
13S	11.75	2	4.5	—	6.75	4.375	.938	2.688	9.25	1.969	3.063	45.6
14S	13.875	2	5	—	7.5	4.5	.688	3.25	9.875	2.25	3.5	70.0
16S	18.875	2	5.5	6	8	6	2	4.75	14.25	2.75	4.25	162.0

- ★ Recommended max. bore with standard keyway.
- ★★ Recommended max. bore with shallow keyway. See chart on page C-18 for recommended keyway size.
- Approximate weight for each flange.

Quadra-Flex® Type S Couplings (Bored to Size)

Type S flexible coupling flanges are bored to size to fit on any standard shaft. They are produced from high strength cast iron. Units are easy to install and remove and are stocked in a wide range of bore sizes as shown on the next page.

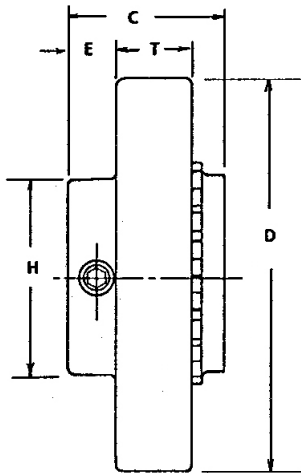


Inches / Millimeters

Coupling Size	Finished Bore Sizes
	Inches /mm
5S	.625, .75, .813, .875, .938, 1, 1.063, 1.125, 1.188, 1.25 15mm, 20mm, 25mm
6S	.75, .875, .938, 1, 1.063, 1.125, 1.188, 1.25, 1.313, 1.375, 1.438, 1.5, 1.625, 1.75, 1.875 20mm, 25mm, 28mm, 30mm, 35mm
7S	.75, .875, .938, 1, 1.063, 1.125, 1.188, 1.25, 1.313, 1.375, 1.438, 1.5, 1.563, 1.625, 1.688, 1.75, 1.875 25mm, 28mm, 30mm, 38mm, 42mm
8S	.875, .938, 1, 1.063, 1.125, 1.188, 1.25, 1.313, 1.375, 1.438, 1.5, 1.563, 1.625, 1.688, 1.75, 1.875, 1.938, 2.063, 2.125, 2.375 28mm, 30mm, 32mm, 38mm, 42mm, 48mm
9S	.938, 1, 1.063, 1.125, 1.25, 1.375, 1.438, 1.5, 1.563, 1.625, 1.688, 1.75, 1.875, 1.938, 2, 2.063, 2.125, 2.188, 2.25, 2.375, 2.5, 2.875 30mm, 32mm, 38mm, 42mm, 48mm
10S	1.125, 1.25, 1.375, 1.438, 1.5, 1.563, 1.625, 1.688, 1.75, 1.875, 1.938, 2, 2.063, 2.125, 2.188, 2.25, 2.375, 2.438, 2.5, 2.75, 2.875, 3.375 55mm, 60mm
11S	1.25, 1.375, 1.438, 1.563, 1.625, 1.75, 1.875, 2.063, 2.125, 2.25, 2.375, 2.625, 2.75, 2.875, 3.375, 3.875
12S	1.875, 2.125, 2.375, 2.625, 2.875, 3.375, 3.875, 3.938 90mm
13S	2.375, 2.875, 3.375
14S	2.875
16S	*

* Plain bore only.

Keyseat Dimensions



Standard Keyway Dimensions

Shaft Diameter	Width	Depth
.5 – .563	.125	.063
.625 – .875	.188	.094
.938 – 1.25	.25	.125
.938 – 1.375	.313	.156
1.438 – 1.75	.375	.188
1.813 – 2.75	.5	.25
2.313 – 2.75	.625	.313
2.813 – 3.25	.75	.375
3.313 – 3.75	.875	.438
3.813 – 4.5	1	.5
4.563 – 5.5	1.25	.625
5.563 – 6.5	1.5	.75

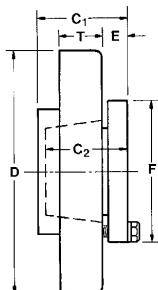
Bore Tolerances for Types J and S Flanges, SC Hubs

Shaft Diameter	Width
UP to 1	+0.000 to +0.010
1.063 to 2.125	+0.000 to +0.015
2.188 to 2.625	+0.000 to +0.020
2.688 to 3.688	+0.000 to +0.025
3.75 to 4.75	+0.000 to +0.030
4.813 to 6	+0.000 to +0.035

Shallow Keyseat Dimensions

Coupling Size	Hub Dia. (H)	Length Thru (C)	Shallow Keyseat Dimensions								
			Bore	Keyway	Key	Bore	Keyway	Key	Bore	Keyway	Key
6S	2.5	1.313	1.625	.375 x .125	.375 x .313 x 1.25	1.75	.375 x .063	.375 x .25 x 1.25	1.875	.5 x .063	.5 x .313 x 1.5
	2.813	1.563									
7S	2.813	1.818	1.875	.5 x .125	.5 x .375 x 1.813	–	–	–	–	–	–
8S	3.25	2.188	2.125	.5 x .188	.5 x .438 x 2.063	2.375	.625 x .125	.625 x .438 x 1.938	–	–	–
	3.25	1.938	2.125	.5 x .188	.5 x .438 x 2.063	2.375	.625 x .125	.625 x .438 x 1.938	–	–	–
9S	3.625	2.406	2.5	.625 x .188	.625 x .375 x 2.375	2.875	.75 x .125	.75 x .5 x 2.063	–	–	–
	4.125	2.281	2.5	.625 x .188	.625 x .375 x 2.375	2.875	.75 x .125	.75 x .5 x 2.063	–	–	–
10S	4.375	2.636	2.875	.75 x .25	.75 x .625 x 2.688	3.375	.875 x .188	.875 x .375 x 2.688	–	–	–
	4.75	2.688	2.875	.75 x .25	.75 x .625 x 2.688	3.375	.875 x .188	.875 x .375 x 2.688	–	–	–
11S	3.25	3.438	3.875	1 x .25	1 x .75 x 3	–	–	–	–	–	–
	4.875	3.438	3.875	1 x .25	1 x .75 x 3	–	–	–	–	–	–
	5.25	3.438	3.875	1 x .25	1 x .75 x 3	–	–	–	–	–	–
	5.625	3.063	3.875	1 x .25	1 x .75 x 3	–	–	–	–	–	–
12S	3.75	4	3.938	1 x .25	1 x .75 x 3.938	–	–	–	–	–	–
	4.875	4	3.938	1 x .25	1 x .75 x 3.938	–	–	–	–	–	–
	5.75	4	3.938	1 x .25	1 x .75 x 3.938	–	–	–	–	–	–

Type B Bushed Quadra-Flex®



Flanges

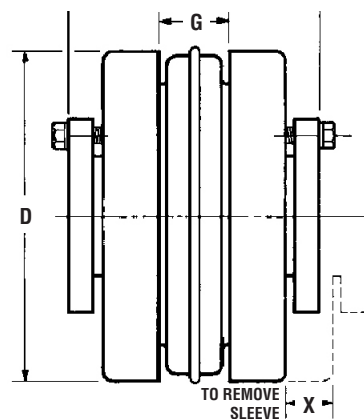
Type B flanges are made of high quality cast iron, the same high strength cast iron used in the Type S and SC Quadra-Flex® flanges. Type B is designed to accommodate *Martin* QD bushings for easy installation and removal. Type B flanges are not intended for use with Hytrel sleeves

Coupling Size	Bushing Required	Dimensions										Max. Bore ★	Weight (lb) †	
		C ₁	C ₂	D	E	F	G	L	T	X	Flange		Bushing	
6B	JA	1.531	1	4.000	.438	2	.875	3.313	.758	1.094	1.188	1.7	.9	
7B	JA	1.594	1	4.625	.438	2	1	3.438	.758	1.313	1.188	2.0	1.0	
8B	SH	1.818	1.25	5.450	.5	2.688	1.438	3.938	2.281	1.5	1.625	3.1	1.0	
9B	SD	2.188	1-1.188	6.350	.438	3.188	1.438	4.625	1.031	1.75	1.938	4.9	1.5	
10B	SK	1.818	1.875	7.500	.625	3.875	1.625	5.313	1.219	2	2.5	7.0	2.0	
11B	SF	2.125	2	8.625	.625	4.625	1.875	6.125	1.5	2.375	2.75	11.8	3.0	
12B	E	2.688	2.625	10.000	.875	6	2.313	7.438	1.688	2.688	3.438	17.2	10.0	
13B	F	3.688	3.625	11.750	1	6.625	2.688	8.625	1.939	3	3.938	30.5	11.5	
14B	F	3.688	3.625	13.875	1	6.625	3.25	9.75	2.25	3.5	3.938	51.0	11.5	
16B	J	4.75	4.5	18.875	1.188	7.25	4.75	12.625	2.75	4.25	4.5	120.0	18.0	

★ Maximum bore with keyseat.
 † Approximate weight for each flange.

QD Bushing Keyway Dimensions

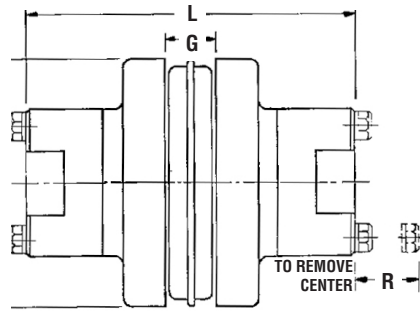
Shaft Diameter	Width	
JA	.5 - 1	STANDARD
	.688 - 1.125	.25 × .063
	.813	.25 × .063
	1.25	NO K.S.
SH	.5 - 1.375	STANDARD
	1.438 - 1.625	.375 × .063
	1.688	NO K.S.
SD	.5 - 1.688	STANDARD
	1.75	.375 × .125
	1.813	.5 × .125
	1.875 - 1.938	.5 × .063
SK	2	NO K.S.
	.5 - 2.125	STANDARD
	2.188 - 2.25	.5 × .125
	2.313 - 2.5	.625 × .063
SF	2.563 - 2.625	NO K.S.
	.5 - 2.25	STANDARD
	2.313 - 2.5	.625 × .188
	2.563 - 2.75	.625 × .063
E	2.813 - 2.875	.75 × .063
	2.938	.75 × 1/32
	.875 - 2.875	STANDARD
	2.813 - 3.25	.75 × .125
F	3.313 - 3.438	.875 × .063
	3.5	.875 × .063
	1 - 3.313	STANDARD
	3.375 - 3.75	.875 × .188
J	3.813 - 3.938	1 × .125
	4	NO K.S.
	1.25 - 3.75	STANDARD
	3.813 - 3.938	1 × .125
	4 - 4.5	1 × .125



Bushings

Martin QD bushings offer convenient mounting of the flange to the shaft securely without setscrews. They are tapered and are split through both the bushing flange and taper to provide a clamp fit, eliminating wobble, vibration, and fretting corrosion. This is the same bushing used in *Martin* sprockets and sheaves and is readily available.

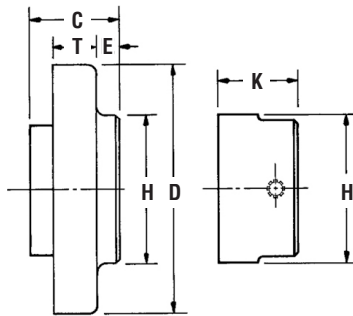
Type SC Spacer Couplings



The dimensions for completely assembled Quadra-Flex® Type SC Spacer Couplings are shown below. See next page for dimensions of separate components.

Coupling Size	Required Distance Between Shafts	Use Flange Number	Use Hub Number	Max. Bore Standard Keyway	Dimensions				Weight ² (lb) •
					D	L ²	G	R	
4JSC	3.5	4JSC35 ¹	4H	1.125	2.460	5.625	.625	.5	4.7
5SC	3.5	5SC35	5H	1.125	3.250	5.625	.75	.563	4.1
6SC	3.5	6SC35	6H	1.375	4.000	5.875	.875	.75	7.1
	4.375	6SC44	6H	1.375	4.000	6.75	.875	.75	7.9
	5	6SC50	6H	1.375	4.000	7.375	.875	.75	8.5
7SC	3.5	7SC35	7H	1.625	4.625	6.375	1	.625	9.1
	4.375	7SC44	7H	1.625	4.625	7.25	1	.625	10.1
	5	7SC50	7H	1.625	4.625	7.875	1	.625	10.7
8SC	3.5	8SC35	8H	1.875	5.450	6.875	1.125	.813	14.7
	3.5	8SC35-10	10H★	2.375	5.450	8.125	1.125	.813	22.7
	4.375	8SC44	8H	1.875	5.450	7.75	1.125	.813	16.1
	5	8SC50	8H	1.875	5.450	8.375	1.125	.813	15.9
	5	8SC50-10	10H★	2.375	5.450	9.625	1.125	.813	26.5
9SC	3.5	9SC35	9H★	2.125	6.350	7.5	1.438	.688	22.0
	4.375	9SC44	9H★	2.125	6.350	8.25	1.438	.688	23.4
	5	9SC50	9H★	2.125	6.350	8.875	1.438	.688	24.6
	5	9SC50-11	11H★	2.875	6.350	10.375	1.438	.813	40.2
	7	9SC70-11	11H★	2.875	6.350	12.375	1.438	.813	48.2
	7.75	9SC78-11	11H★	2.875	6.350	13.125	1.438	.813	50.8
10SC	4.75	10SC48	10H★	2.375	7.500	9.375	1.625	.813	35.4
	5	10SC50	10H★	2.375	7.500	9.625	1.625	.813	38.2
	7	10SC70-13	13H★	3.375	7.500	13.625	1.625	1.875	71.8
	7.75	10SC78-13	13H★	3.375	7.500	14.375	1.625	1.875	75.6
	10	10SC100-13	13H★	3.375	7.500	16.625	1.625	1.875	89.0
11SC	4.75	11SC48	11H★	2.875	8.625	10.625	1.875	.813	54.5
	5	11SC50	11H★	2.875	8.625	10.375	1.875	.813	54.8
	7	11SC70-14	14H	3.875	8.625	14.625	1.875	2	85.7
	7.75	11SC78-14	14H	3.875	8.625	15.375	1.875	2	90.1
	10	11SC100-14	14H	3.875	8.625	17.625	1.875	2	102.5
12SC	7	12SC70	12H★	2.875	10.000	12.875	2.313	1.5	87.7
	7	12SC70-14	14H	3.875	10.000	14.625	2.313	2	98.9
	7.75	12SC78	12H★	2.875	10.000	13.625	2.313	1.5	91.5
	7.75	12SC78-14	14H	3.875	10.000	15.375	2.313	2	103.3
	10	12SC100-14	14H	3.875	10.000	17.625	2.313	2	115.5
13SC	7.75	13SC78	13H★	3.375	11.750	14.375	2.688	1.875	121.8
14SC	7.75	14SC78	14H	3.875	13.875	15.375	3.25	2	179.4

★ Short (HS) hub also available.
 • Approximate weight for completely assembled spacer coupling.
¹ 4JSC35 × 1.125 has a shallow keyway.
² "L" dimension and weight will change if one or two short (HS) hubs are used.
 NOTE: Refer to page C-23 to order — specify components separately.



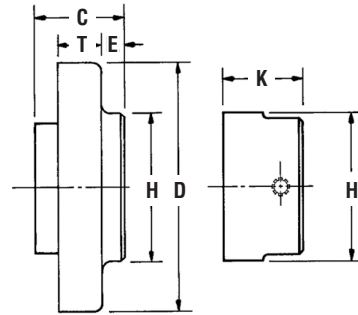
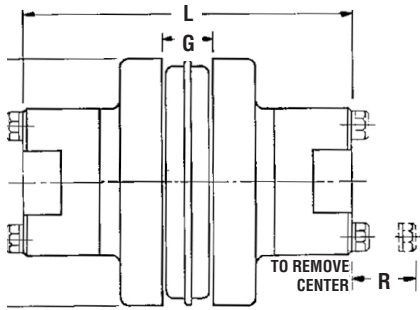
Type SC Flanges and Hubs

Tables below provide dimensional information for Quadra-Flex® Flanges and Hubs used for Spacer Couplings. Assembled dimensions are listed on opposite page. Any of the sleeves shown on page C-14 can be used.

Coupling Size	Flange Number	For Distance Between Shafts ★	For Hubs	Dimensions					Weight (lb) •
				D	E	H	C	T	
4JSC	4JSC35	3.5	4H	2.460	.438	2	.875	.438	1.2
5SC	5SC35	3.5	5H	3.250	.797	2	1.688	.594	1.2
6SC	6SC35	3.5	6H	4.000	.594	2.5	1.625	.697	2.0
	6SC44	4.375	6H	4.000	.344	2.5	2.063	.697	2.4
	6SC50	5	6H	4.000	1.344	2.5	2.375	.697	2.7
7SC	7SC35	3.5	7H	4.625	.469	2.813	1.625	.758	2.3
	7SC44	4.375	7H	4.625	.879	2.813	2.063	.758	2.8
	7SC50	5	7H	4.625	.531	2.813	2.375	.758	3.1
8SC	8SC35	3.5	8H	5.450	.281	3.25	1.625	.879	3.5
	8SC35-10	3.5	10H-10HS	5.450	.281	4.375	1.625	.879	3.4
	8SC44	4.375	8H	5.450	.697	3.54	2.063	.879	4.2
	8SC50	5	8H	5.450	.344	3.25	2.375	.879	4.6
	8SC50-10	5	10H-10HS	5.450	.344	4.375	2.375	.879	5.3
9SC	9SC35	3.5	9H-9HS	6.350	.063	3.625	1.688	.344	5.1
	9SC44	4.375	9H-9HS	6.350	.438	3.625	2.063	.344	5.8
	9SC50	5	9H-9HS	6.350	.75	3.625	2.375	.344	6.4
	9SC50-11	5	11H-11HS	6.350	.75	5.25	2.375	.344	6.9
	9SC70-11	7	11H-11HS	6.350	1.75	5.25	3.375	.344	10.9
	9SC78-11	7.75	11H-11HS	6.350	2.125	5.25	3.75	.344	12.1
10SC	10SC48	4.75	10H-10HS	7.500	.344	4.375	2.25	.531	9.8
	10SC50	5	10H-10HS	7.500	.469	4.375	2.375	.531	10.1
	10SC70-13	7	13H-13HS	7.500	1.469	6.125	3.375	.531	14.5
	10SC78-13	7.75	13H-13HS	7.500	1.818	6.125	3.75	.531	16.3
	10SC100-13	10	13H-13HS	7.500	2.939	6.125	4.875	.531	22.5
11SC	11SC48	4.75	11H-11HS	8.625	.031	5.25	1.5	1.5	12.5
	11SC50	5	11H11HS	8.625	.063	5.25	1.563	1.5	12.7
	11SC70-14	7	14H	8.625	.688	6.5	2.563	1.5	16.1
	11SC78-14	7.75	14H	8.625	1.438	6.5	2.938	1.5	18.3
	11SC100-14	10	14H	8.625	2.563	6.5	4.063	1.5	24.5
12SC	12SC70	7	12H-12HS	10.000	.636	5.75	2.469	1.688	23.2
	12SC70-14	7	14H	10.000	.636	6.5	2.469	1.688	21.2
	12SC78	7.75	12H-12HS	10.000	.344	5.75	2.818	1.688	25.1
	12SC78-14	7.75	14H	10.000	.344	6.5	2.818	1.688	23.4
	12SC100-14	10	14H	10.000	.758	6.5	3.939	1.688	29.5
13SC	13SC78	7.75	13H-13HS	11.750	.563	6.125	3.25	1.939	38.4
14SC	14SC78	7.75	14H	13.875	.031	6.5	2.697	2.25	55.0

★ Flanges can be mixed to form different Between-Shaft Dimensions. See chart on page 23.
 • Approximate weight for each flange.

SC Spacer Hub Bores



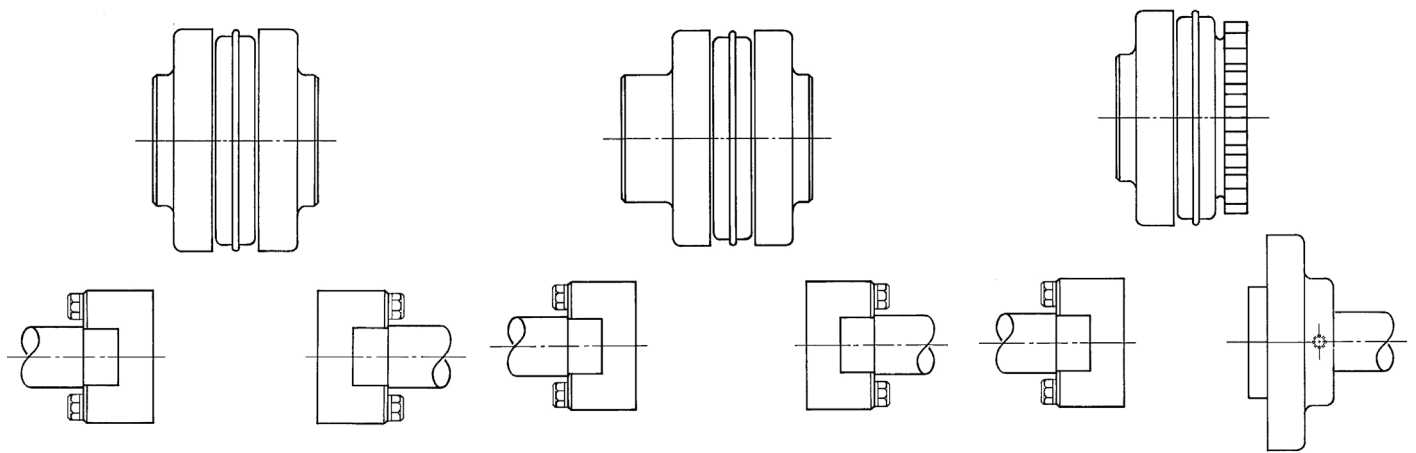
Coupling Size	Hub Number	Max. Bore	Stock Bore								Dimensions			Weight ² (lb) •	
			Plain Bore								K	H	Cap Screws Furnished		
4JSC	4H	1.125	—	.625	.875	1	1.125H					1.625	2	4 — 10 × 2	1.1
5SC	5H	1.125	.5	.625	.75	.875	1	1.125				.406	2	4 — 10 × 1.5	.7
6SC	6H	1.375	.625	.75	.875	1	1.125	1.25	1.375			.531	2.5	4 — .25 × 1.75	1.3
7SC	7H	1.625	.625	.875	1	1.125	1.375	1.5	1.625			1.469	2.813	4 — .25 × 1.875	1.9
8SC	8H	1.875	.75	.875	1	1.125	1.375	1.5	1.625	1.75	1.875	1.697	3.25	4 — .313 × 2.25	3.2
9SC	9H	2.125	.875	1	1.125	1.375	1.5	1.625	1.75	1.875	2.125	1.939	3.625	4 — .375 × 2.75	4.4
	9HS	1.5	—	1.125								1.531	3.625	4 — .375 × 2.25	3.7
10SC	10H	2.375	1.125	1.625	1.875	2.125	2.375					2.344	4.375	4 — .438 × 3	7.3
	10HS	1.625	—	1.125								1.636	4.375	4 — .438 × 2.5	5.5
11SC	11H	2.875	1.125	1.875	2.125	2.375	2.875					2.697	5.25	4 — .5 × 3.5	12.2
	11HS	1.875	—	1.125	1.625							1.879	5.25	4 — .5 × 2.75	9.3
12SC	12H	2.875	1.875	1.875	2.125	2.375	2.875					2.939	5.75	4 — .625 × 4	16.6
	12HS	2.5	—	2.375								2.531	5.75	4 — .625 × 3.5	14.1
13SC	13H	3.375	—	2.375	2.875	3.375						3.344	6.125	4 — .625 × 4.75	19.9
	13HS	2.5	—	2.125	2.375							2.469	6.125	4 — .625 × 3.5	16.0
14SC	14H	3.875	—	2.375	2.875	3.375	3.875					3.818	6.5	4 — .625 × 5	24.2

- ★ 4JSC × 1.125 has a shallow keyseat.
- Approximate weight for each hub.

Type B Bushed Quadra-Flex®

Spacer couplings are available with the most popular between shaft dimensions. Spacings other than standard can be achieved by mixing flanges.

The “Standard” column provides spacings using identical flanges; the “Combination” column provides spacings with mixed flanges; the column headed “Semi-Spacer” uses one flange that is not made for spacer coupling and therefore does not have a detachable hub.



Standard

Spacing	Use Flanges ★
3.5	2 - () SC35
4.375	2 - () SC44
5	2 - () SC50
7	2 - () SC70
7.75	2 - () SC78
10	2 - () SC100

Combination

Spacing	Use Flanges ★
3.938	SC35 and SC44
4.25	SC35 and SC50
4.688	SC44 and SC50
5.25	SC35 and SC70
5.625	SC35 and SC78
5.688	SC44 and SC70
6	SC50 and SC70
6.063	SC44 and SC78
6.375	SC50 and SC78
6.75	SC35 and SC100 ★★
7.188	SC44 and SC100 ★★
7.375	SC70 and SC78
7.5	SC50 and SC100
8.5	SC70 and SC100
8.875	SC78 and SC100

Semi-Spacer

Spacing	Use Flanges ★
1.875	S and SC35
2.313	S and SC44
2.625	S and SC50
3.625	S and SC70
4	S and SC78
5.125	S and SC100

★ Check individual coupling size for flange

★★ Non-Stock

Note: Other combinations available – consult factory

Installation Instructions



Martin Quadra-Flex® flanges (hubs) and elastomeric elements (sleeves) come in a wide range of sizes and types. First, determine the size and type of coupling components required. Remove all components from their boxes and loosely assemble the coupling. Do not install the wire ring on the two piece sleeves at this time. Check maximum RPM values in table against operating speeds.

Martin EM sleeves are rated the same as other EPDM and Neoprene sleeves, and may be used interchangeably; however, Hytrel sleeves are rated at different values and may not be interchanged with *Martin* EM sleeves, or the EPDM and Neoprene sleeves. Check horsepower and torque ratings when selecting Hytrel sleeves.

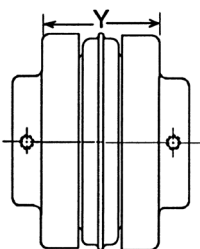


Step 1. Make sure the motor driving the part or components is locked out electrically in such a manner that it cannot be started by anyone, however remote from the area. The same type of lockout procedure applies to any other driving device which may be used. Failure to follow these instructions may result in personal injury or property damage.

Step 2. Prepare shafts for coupling installation. Inspect all coupling components and remove any protective coating or lubricants from bores, mating surfaces, and fasteners.

Step 3. Slide one coupling flange onto each prepared shaft using key stock where required. With the QD Type B flange, it may be necessary to expand the QD bushing bore for ease of installation.

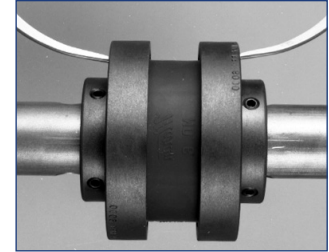
Step 4. Position the flange on the shafts to achieve the approximate “Y” dimension (distance between flanges) shown in table. It is best to have equal shaft length into each flange. Tighten one flange in position, and slide the other flange sufficient distance back to install sleeve. Do not install wire ring on two piece sleeve in its final position at this time, but allow it to hang loosely in groove next to teeth.



Step 5. Slide loose flange on the shaft until the sleeve has seated completely in teeth of both flanges. Refer to “Y” dimension although not a critical dimension. Secure the flange to shaft and torque set screws and cap screws to correct torque values.



Parallel



Angular

Step 6. Check parallel alignment by placing a straight edge across the two coupling flanges and measure the maximum offset at several points around the periphery of coupling. Do not rotate coupling when taking these measurements. Refer to table for maximum allowed offset of parallel alignment. Realign the coupling if necessary.

Step 7. Check angular alignment with a micrometer, vernier, or caliper. Take measurement from outside to outside of flanges at several points around the periphery of coupling. Do not rotate coupling when taking these measurements. Determine the difference between maximum and minimum dimensions and check to make sure they do not exceed the angular figure on the table. If a correction is necessary, recheck parallel alignment.

Maximum RPM and Allowable Misalignment (Dimensions in Inches)

Sleeve Size	Max. RPM	Types JEM, EM, E and N			★ Type H and HS		
		Parallel	Angular	Y	Parallel	Angular	Y
3	9200	.010	.035	1.188	—	—	—
4	7600	.010	.043	1.500	—	—	—
5	7600	.015	.056	1.938	—	—	—
6	6000	.015	.070	2.438†	.010	.016	2.500
7	5250	.020	.081	2.563	.012	.020	2.625
8	4500	.020	.094	2.938	.015	.025	3.000
9	3750	.025	.109	3.500	.017	.028	3.563
10	3600	.025	.128	4.053	.020	.032	4.125
11	3600	.032	.151	4.875	.022	.037	4.938
12	2800	.032	.175	5.688	.025	.042	5.750
13	2400	.040	.195	6.688	.030	.050	6.688
14	2200	.045	.242	7.750	.035	.060	7.813
16	1500	.062	.330	10.250	—	—	—

NOTE: Values shown above may apply if the actual torque transmitted is more than .25 the coupling rating. For lesser torque, reduce the above values by .5.

★ Type H & HS sleeves should not be used as direct replacements for JEM or EM sleeves.

† Value when using 6J flanges is 2.125.

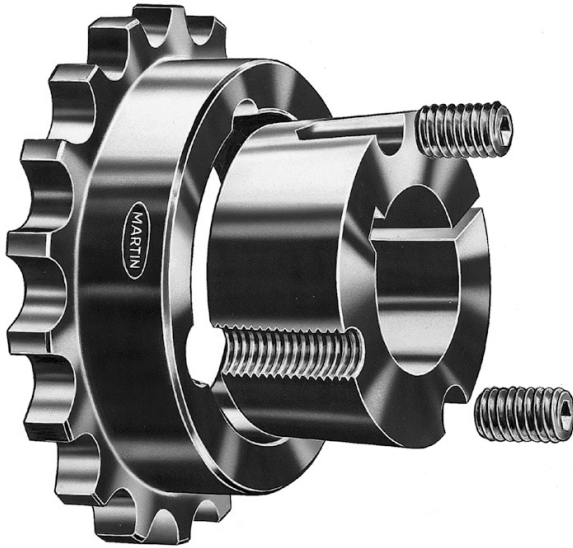
Step 8. If the coupling employs the two-piece sleeve with wire ring, install ring in center groove of sleeve.

Note: Some force may be required to seat the ring in groove.

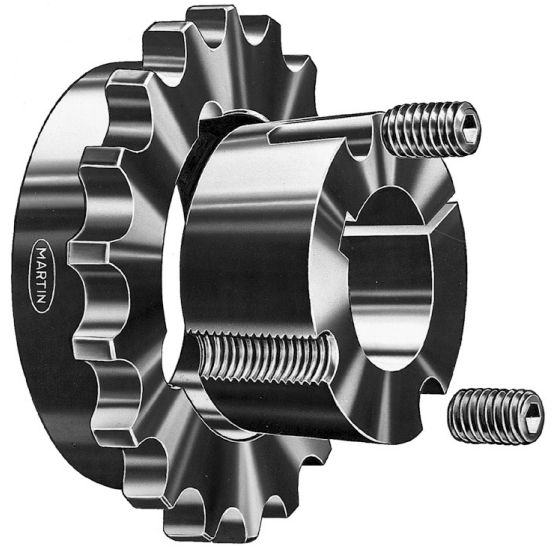
Step 9. Install protective guards and/or shields per OSHA and any other additional local or state safety codes as required.

Warning: Coupling sleeves may be forced from coupling when subjected to a severe shock load or abuse.

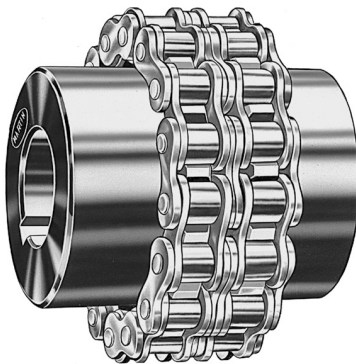
Stock Flexible Couplings



Type TBH



Type TBF



Bored to Size
and Stock Bore



QD



Covers

Stock Flexible Couplings



Bored to Size Couplings with Finished Bore, Keyway, and Set Screw

Coupling Number	Stock Finished Bores Include Standard Keyway and Setscrew	A	B	C	L	Coupling O.D.	Weight (lb)
4012	.5, .625, .75	1.406	1.125	.281	2.531	2.406	.4
4016	.625, .75, .875, .938, 1, 1.125, 1.188, 1.25	1.969	1.125	.281	2.531	3.031	.8
5016	.75, .875, 1, 1.125, 1.188, 1.25, 1.375, 1.438, 1.5, 1.625	2.5	1.438	.375	3.25	3.781	1.6
5018	.75, .875, 1, 1.125, 1.188, 1.25, 1.375, 1.438, 1.5, 1.625, 1.75, 1.875, 1.938	2.969	1.688	.375	3.75	4.188	2.4
6018	1, 1.125, 1.188, 1.25, 1.375, 1.438, 1.5, 1.625, 1.75, 1.875, 1.938, 2, 2.125, 2.188, 2.25, 2.375, 2.438	3.5	1.875	.438	4.188	5	4.8
6020	1.125, 1.25, 1.5, 1.75, 1.938, 2.125, 2.375, 2.438, 2.625	3.875	2	.438	4.438	5.5	5.2
6022	1.125, 1.75, 1.875, 1.938, 2.125, 2.375, 2.438, 2.625, 2.75, 2.875	4.5	2.125	.438	4.688	5.953	7.8
8018	1.125, 1.75, 1.938, 2, 2.125, 2.375, 2.438, 2.625, 2.875, 2.938	4.563	2.375	.578	5.328	6.656	9.5
8020	1.5, 2.188, 2.438, 2.688, 2.938, 3.125, 3.375, 3.438	5.375	2.625	.578	5.516	7.297	13.4
10018	1.5, 2.438, 2.875, 2.938, 3.438	5.688	2.75	.719	6.219	8.328	18.2
10020	2, 3.375, 3.688, 3.938	6.719	3.125	.719	6.969	9.125	25.0
12018	3.438, 3.938, 4.438	6.75	3.5	.859	7.875	10	28.0
12022	4.375, 4.438, 4.938	8.75	4	.859	8.875	11.891	55.0

CAUTION: All rotating power transmission products are potentially dangerous and must be properly guarded for the speeds and applications for which they were intended.

QD Couplings

Coupling Number	Bushing Used	Max. Bore★★	A	B	D	C	L	Coupling O. D.	K†	Weight (lb)
4016JA	JA	1	2	.875	1.313	.281	2.906	3.031	1.25	.9
5018SH	SH	1.375	2.969	1	1.5	.375	3.375	4.188	1.75	1.3
6020SK	SK	2.125	3.875	1.25	1.875	.438	4.188	5.5	2.25	2.5
8018SF	SF	2.313	4.563	1.75	2.375	.578	5.328	6.656	2.25	5.3

★★ Maximum bore shown is the maximum bore with standard keyway. It is recommended that this maximum not be exceeded in both halves of a coupling.

† Minimum clearance required to remove the coupling half by using the screws as jack screws.

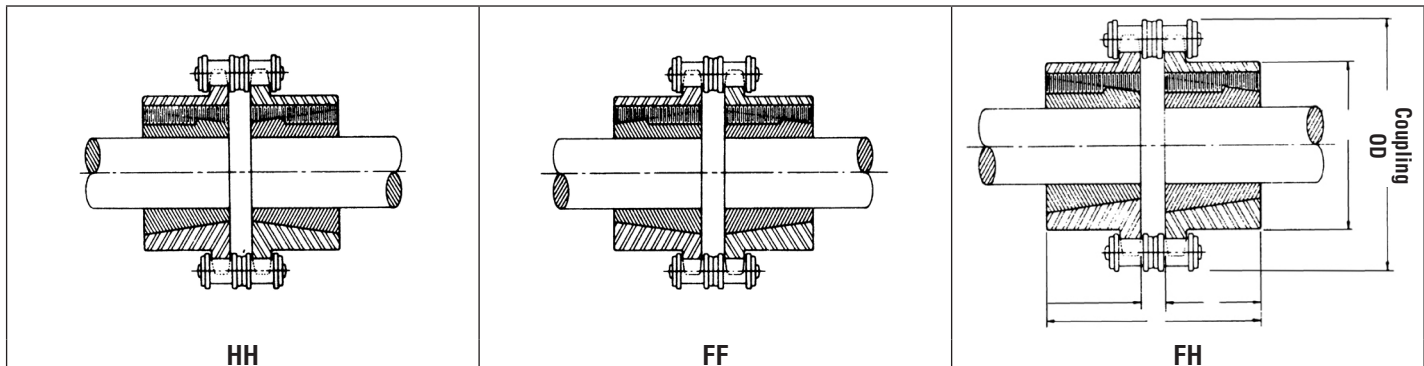
Taper Bushed Couplings Type TBH and TBF

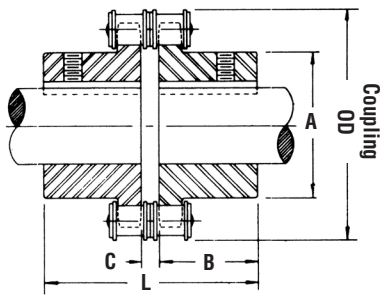
Type TBH	Type TBF	Bushing Data			A	B	C	J★	K†	L	OD	Weight (lb)
Coupling Number	Coupling Number	Bushing Used	Max. Bore	Min. Bore								
4016TBH	4016TBF	1108	1.125	.5	1.969	.875	.281	.625	.75	2.031	3.031	.9
5018TBH	5018TBF	1610	1.625	.5	2.969	1	.375	.813	1.167	2.375	4.188	1.1
6020TBH	6020TBF	2012	2	.5	3.875	1.25	.438	.938	1.375	2.938	5.5	2.7
8020TBH	8020TBF	3020	3	.938	5.375	2	.578	1.188	2.167	4.578	7.297	6.1
10020TBH	10020TBF	3535	3.5	1.188	6.719	3.5	.719	2	2.625	7.719	9.125	19.0

★★ Space needed for (1) tightening bushing with shortened hex key (2) loosening screws for puller to remove hub.

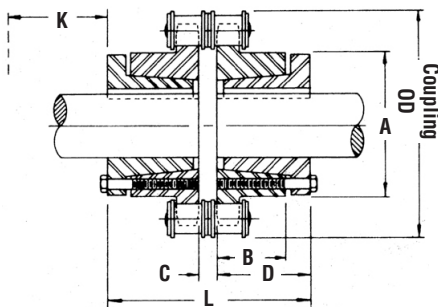
† Minimum clearance required to remove the coupling half by using the screws as jack screws with shortened hex key.

Our High-Speed Standard Covers Fit These Couplings





BS Coupling



QD Coupling



Type TBF



Type TBH

All *Martin* chain couplings have hardened teeth

Coupling Selection

Roller chain couplings have a torque capacity in excess of the torque normally transmitted by shafting which falls within the coupling bore range. Select the smallest coupling which will accommodate both shafts. For a reversing operation, shock or pulsating loads, or other severe operating conditions, select the next larger coupling size.

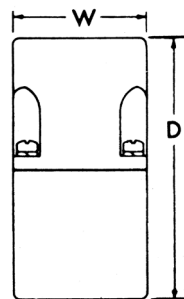
A cover should be used to assure maximum service life, particularly if the coupling operates at high speeds or under moist conditions. For proper lubrication, fill the space between the cover and the coupling with soft to medium consistency coupling grease.

Coupling with Plain Bores for Reboring

Coupling Number	Maximum Bore Inches	Minimum Plain Bore Inches	Weight (lb)	Recommended Maximum RPM	Coupling Chain Number	Weight (lb)
4012	.875	.438	.5	5000	4012 CHN	.4
4016	1.313	.625	1.0	5000	4016 CHN	.5
5016	1.688	.625	2.2	4000	5016 CHN	1.2
5018	2	.75	3.5	3600	5018 CHN	1.3
6018	2.438	1	5.0	3000	6018 CHN	2.2
6020	2.75	1.125	6.5	2500	6020 CHN	2.6
6022	3	1.125	9.4	2500	6022 CHN	2.7
8018	3.125	1.125	11.0	2000	8018 CHN	5.3
8020	3.563	1.5	16.3	2000	8020 CHN	5.9
10018	3.875	1.5	20.3	1800	10018 CHN	9.8
10020	4.625	1.5	31.8	1800	10020 CHN	10.9
12018	4.688	2	36.8	1500	12018 CHN	17.3
12022	6.125	2	70.0	1200	12022 CHN	21.2

Stock Coupling Covers

Covers fit Taper Bushed, QD and Stock, and Finished Bore Couplings. Covers allow excellent lubrication, and their use is recommended to obtain maximum coupling life. Covers are of aluminum or plastic, and are made in halves for easy installation. Synthetic rubber oil seals, which contact the coupling hubs, retain the lubricant and prevent the entry of dirt. Covers are fitted with gaskets between the halves.



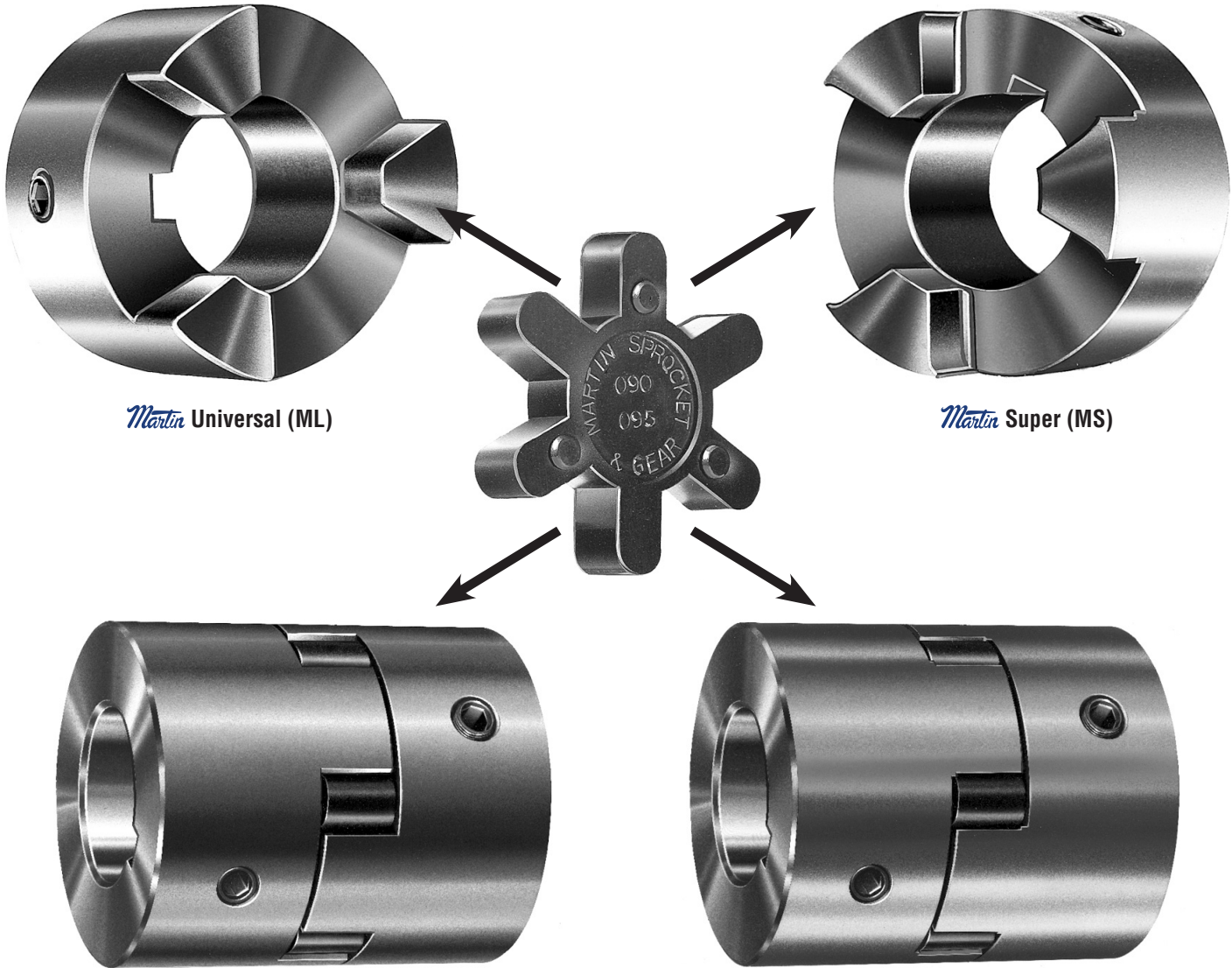
Aluminum
and
Plastic

Cover Cat. No.	Aluminum		Plastic		Weight (lb)
	D	W	D	W	
4012COV**	4	2	4	2.313	0.78
4016COV**	4	2	4	2.313	0.92
5016COV**	5.125	2.375	5.125	2.625	1.3
5018COV**	5.125	2.375	5.125	2.625	1.3
6018COV**	6.375	2.938	6.375	3.167	2.44
6020COV**	6.375	2.938	6.375	3.167	2.44
6022COV*	8.188	4	8.188	4	4.88
8018COV	8.188	4	8.188	4	4.88
8020COV	8.188	4	8.188	4	4.88
10018COV	9.375	5.938	9.375	5.938	8.76
10020COV	10.125	5.25	10.125	5.25	12.66
12018COV	11.375	7.375	11.375	7.375	16.46
12022COV	13.25	7.938	13.25	7.938	19.5

* Use 8018 cover — Special Seals Available
 ** Furnished in Plastic unless specified with "AL" Suffix when ordering.

Flexible Jaw Couplings

Martin



Martin Universal (ML)

Martin Super (MS)

Now *Martin* Offers Two Styles

The *Martin* Super — Higher Horsepower

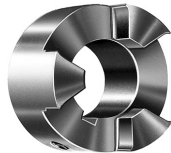
The *Martin* Universal — Completely Interchangeable

- No Lubrication
- Easy Installation
- No Metal to Metal Contact
- Resistant to oil, dirt, sand, moisture, grease
- Easy inspection of load carrying Spider
- Flexibility of angular or parallel misalignment of shafts by Buna-N Spider member permits smooth "Power Transmission"

Jaw Coupling Selection Procedure

- Determine Service Factor by Matching Driven Unit with Prime Mover in Service Factor Guide.
- Multiply Service Factor by Driven Unit or Motor HP to Obtain Adjusted HP.
- Select Flexible Coupling with Horsepower Capacity Equal to or Greater than Adjusted HP.

Service Factor Guide	Prime Mover		
	Electric Motor or Steam Turbine	Gasoline or Diesel Engine, 6 or More Cyl.	Gasoline or Diesel Engine, Less Than 6 Cyl.
Light: Uniform or steady load never exceeding horsepower rating, infrequent starting. Agitators, Blowers, Conveyors, Evaporators, Fans, Generators, Centrifugal Pumps, Stokers	1.0	1.5	2.0
Moderate: Heavy inertia, moderate shock, frequent starting; peak loads do not exceed 125 per cent average horsepower. Uneven load. Beaters, Rotary Pumps and Compressors, Cranes, Elevators, Mine and Propellor Fans, Generators, Pulp Grinders, Hoists, Kilns, Machine Tools, Mixers, Gear Pumps, Woodworking Machines	1.5	2.0	2.5
Heavy: Heavy shock conditions or frequent reversing. Peak loads do not exceed 150 per cent average horsepower. Uneven load. Reciprocating Pumps and Compressors, Crushers, Freight and Passenger Elevators, Mills (Hammer, Ball, Rolling, Turf, Flour), Vibrating Screens, Winches, Wire Drawing Machines, Punches, Shears	2.0	2.5	3.0



Bore Tolerances:
 0.5 – 1.75 + 0.001 – 0.000
 1.8125 – 2.625 + 0.0015 – 0.0000

Martin ML (Universal Series) — Torque and Horsepower Ratings

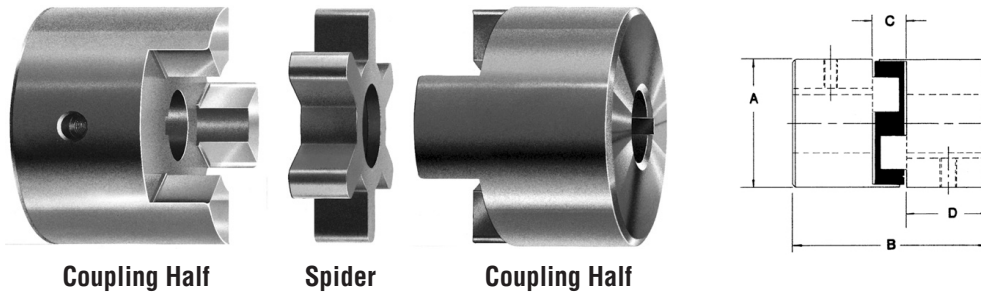
Catalog Number	Stainless Steel Catalog Number	Torque Rating lb — in		Buna-N Horsepower Capacity at Various RPM					Max. Bore	(Each) Weight
		Buna-N	Hytrel®	100	300	1200	1800	3600		
ML035	ML035SS	3.5	—	0.006	0.02	0.07	0.10	0.20	0.375	0.10
ML050	ML050SS	31.5	94.5	0.05	0.15	0.60	0.9	1.8	0.625	0.15
ML070	ML070SS	42	126	0.07	0.21	0.84	1.2	2.5	0.750	0.31
ML075	ML075SS	81	242	0.13	0.39	1.56	2.3	4.7	0.875	0.45
ML090	ML090SS	140	420	0.22	0.66	2.64	4.0	7.9	1.125	0.75
ML095	ML095SS	189	567	0.30	0.90	3.6	5.4	10.8	1.125	0.89
ML099	ML099SS	290	870	0.46	1.4	5.5	8.3	16.6	1.375	1.02
ML100	ML100SS	416	1248	0.66	2.0	7.9	11.9	23.8	1.375	1.48
ML110	ML110SS	756	2268	1.2	3.6	14.4	21.6	43.2	1.625	3.18
ML150	ML150SS	1197	3591	1.9	5.7	22.8	34.2	68.4	1.875	4.83
ML190	ML190SS	1512	4536	2.4	7.2	28.8	43.2	86.4	2.125	7.65
ML225	ML225SS	2268	6804	3.6	10.8	43.2	64.8	129.6	2.625	10.66

Martin MS (Super Series) — Torque and Horsepower Ratings

Catalog Number	Torque Rating lb — in		Buna-N Horsepower Capacity at Various RPM					Max. Bore	(Each) Weight
	Buna-N	Hytrel®	100	300	1200	1800	3600		
MS050	37.3	112	0.06	0.18	0.71	1.0	2.1	0.625	0.13
MS070	59.4	178	0.09	0.28	1.1	1.7	3.4	0.750	0.25
MS075	157	471	0.25	0.75	3.0	4.5	8.9	0.875	0.53
MS090	241	723	0.38	1.1	4.6	6.9	13.7	1.125	0.58
MS095	241	723	0.38	1.1	4.6	6.9	13.7	1.125	0.70
MS099	512	1536	0.81	2.4	9.7	14.6	29.2	1.325	1.12
MS100	512	1536	0.81	2.4	9.7	14.6	29.2	1.325	1.43
MS110	1014	3042	1.6	4.8	19.3	28.9	57.8	1.325	3.24
MS150	1630	4890	2.6	7.7	31.0	46.5	93.0	1.875	4.76
MS190	2450	7350	3.9	11.6	46.6	69.9	139.7	2.125	7.66
MS225	2920	8760	4.6	13.9	55.5	83.2	166.5	2.625	10.76

NOTE: Above HP capacities are for Buna-N rubber spider and service factor of one. When Hytrel spider is used multiply capacities by three.
Misalignment Capacities: Angular up to 1°, Parallel up to .015 inches.
 Hytrel is a registered trademark of E.I. DuPont & Co.

Stock Jaw Couplings



Dimensions

Catalog Number	Hub Dia.		Overall Length	Distance Between Flanges	Length Thru Bore	Bore		Weight (lb)
	A	B				Min.	Max.	
ML035	.625	.813	.281	.266	.125	.375	.07	
ML or MS050	1.167	1.719	.469	.625	.25	.625	.13	
ML or MS070	1.375	2	.5	.75	.25	.75	.25	
ML or MS075	1.75	2.125	.5	.813	.25	.875	.44	
ML or MS090	2.125	2.125	.5	.813	.25	1.125	.69	
ML or MS095	2.125	2.5	.5	1	.438	1.125	.84	
ML or MS099	2.531	2.875	.75	1.067	.5	1.375	1.19	
ML or MS100	2.531	3.5	.75	1.375	.438	1.375	1.47	
ML or MS110	3.313	4.25	.875	1.688	.5	1.625	3.20	
ML or MS150	3.75	4.5	1	1.75	.625	1.875	4.50	
ML or MS190	4.5	4.875	1	1.938	.75	2.125	8.25	
ML or MS225	5	5.375	1	2.188	.75	2.625	12.00	

Bore sizes are standard in .0625" increments from minimum to maximum bore range and have keyway and set screw except as shown below:

- .125 through .375 Bore — No KW — No SS
- #050 — .438 through .625 Bore — No KW — 1-SS
- #070, 075, 090, 095 — .438 and .5 Bore — No KW — 1-SS
- #099, 100, 110 — .5 Bore — No KW — No SS
- #150 — .625 Bore — No KW — No SS
- #190, 225 — .75 Bore — No KW — No SS

NOTE: In each coupling size a min. plain bore is available that can be used to make special bores such as spline, hex, metric, or other shapes or sizes.

For Standard Keyway sizes see *Martin* Catalog, page E-158 and E-159.

Coupling Selection Chart for 60 Hz Nema Motor Frames Based on Buna-N (Rubber) Spider ★†

Shaft Dia.	Nema Frame	Coupling Size	Max. HP @ RPM					
			1140		1725		3450	
			MS	ML	MS	ML	MS	ML
.375	42	050	.5	.5	1	.75	2	1.5
.5	48	050	.5	.5	1	.75	2	1.5
.625	56,56 H	050	.5	.5	1	.75	2	1.5
.75	66	070	1	.75	1.5	1	3	2
.875	56HZ, 143T, 145T	075	2	1	3	2	7.5	3
	182, 184	090	3	2	5	3	10	7.5
1.125	182T, 184T, 213	095	3	3	5	5	10	10
	215	099	7.5	5	10	7.5	25	15
1.375	213T, 215T, 245U, 256U	100	7.5	7.5	10	10	25	20
1.625	254T, 256T, 248U, 286U	110	15	10	25	20	50	40
1.875	284T, 286T, 324U, 326U, 326TS	150	30	20	40	30	75	60
2.125	324T, 326T, 364U, 365U	190	40	25	60	40	125	75
2.375	364T, 365T	225	50	40	75	60	150	100

NOTE: Coupling Sizes are based on the rated torque, max. bore and a have a service factor of 1.0.

★ When using Hytrel or Bronze spider multiply above horsepower ratings by 3.

† When using Urethane spider multiply above horsepower ratings by 1.5.

Spiders – Buna-N (Rubber) and Hytrel

Catalog Number	Accommodates Coupling		Net Weight lb	
	Buna-N	Hytrel	Buna-N	Hytrel
SRL035	—	ML035	.009	—
SRL050	SHL050	M 050 — MS 050	.013	.013
SRL070	SHL070	ML070 — MS 070	.017	.017
SRL075	SHL075	ML075 — MS 075	.03	.03
SRL090	SHL090	ML or MS090-095	.04	.04
SRL099	SHL099	ML or MS099-100	.07	.07
SRL110	SHL110	ML110 — MS110	.14	.14
SRL150	SHL150	M150 — MS150	.21	.21
SRL190	SHL190	ML190 — MS190	.27	.27
SRL225	SHL225	ML225 — MS225	.41	.41

Urethane spiders available. Please consult factory.

Spiders – Urethane† and Bronze ★

Catalog Number	Accommodates Coupling		Net Weight lb	
	Urethane	Bronze	Urethane	Bronze
—	SBL035	ML 035	—	0.05
SUL050	SBL050	ML050 — MS050	.013	0.08
SUL070	SBL070	ML070 — MS070	.017	0.06
SUL075	SBL075	ML075 — MS075	.03	0.15
SUL090/ 095	SBL090/ 095	ML or MS 090-095	.04	0.17
SUL 099/ 100	SBL099/ 100	ML or MS 099-100	.07	0.50
SUL110	SBL110	ML110 — MS110	.14	0.62
SUL150	SBL150	ML150 — MS150	.21	1.00
SUL190	SBL190	ML190 — MS190	.27	1.30
SUL225	SBL225	ML225 — MS225	.41	1.60

★ Bronze spiders available as Made-to-Order.



Metric Bore Sizes Available
Consult Factory

Parts List and Engineering Data

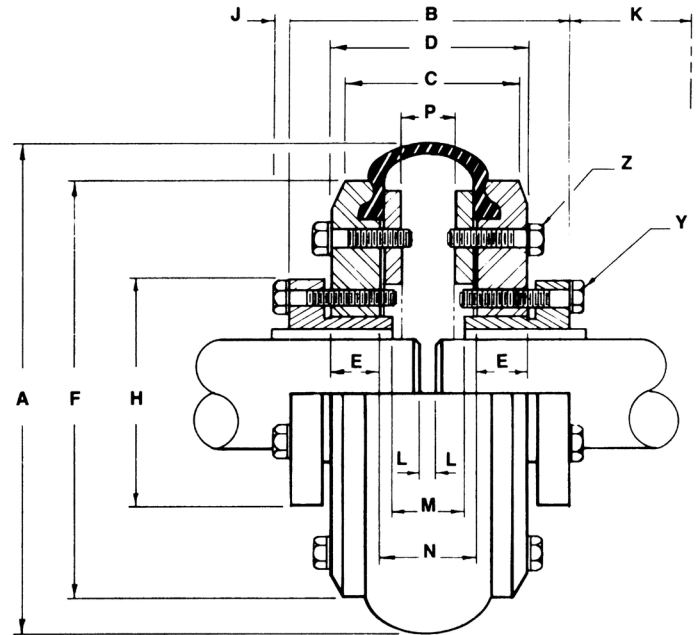
Coupling Size	QD Bushing (2 Required Per Coupling)*	Steel Flange Assembly (2 Required Per Coupling)		Rubber Element (1 Required Per Coupling)		Max RPM	Horsepower @ 100 RPM (1.0 Factor)	Torque (1.0 Service Factor)		Average Static Torsional Stiffness Coefficient (K)		Approx. WR** (LB - Ft²)
		Flange No.	Weight Each	Element No.	Weight			LB - In	LB - Ft	LB - In/DEG	LB - In/RAD	
5	JA	F5JA	3.0	E5	.6	4500	1.03	649	54.1	244	12,850	.08
6	JA	F6JA	4.0	E6	.9	4000	1.80	1134	94.5	414	23,700	.22
7	SH	F7SH	7.0	E7	1.3	3600	3.12	1966	163.8	544	31,200	.40
8	SDS	F8SDS	8.0	E8	1.7	3100	4.68	2950	245.8	876	50,200	.70
9	SK	F9SK	13.0	E9	2.0	2800	6.90	4349	362.4	1088	62,400	1.33
10	SF	F10SF	17.0	E10	2.0	2600	8.33	5250	437.5	1530	87,700	2.10
11	SF	F11SF	18.0	E11	3.0	2300	9.92	6252	521.0	2420	138,700	2.90
12	E	F12E	31.0	E12	3.8	2100	14.40	9076	756.3	4014	217,000	5.80

* See page B5 for QD bushing bore sizes and dimensions.

Rubber tire element also available in Neoprene.

** Coupling plus QD bushing.

Weight in pounds.



Dimensions

Coupling Size	A	B	C	D	E	F	H	J	K*	L	M	N	P	Z Clamp Ring Bolts			
														Y B.C. Dia.	B.C. Dia.	No. and Size***	Torque In lb
5	5.25	3.438	2.167	2.563	.625	4	2	.156	1.25	..	1.438	1.313	.375	1.66	2.438	(5) .25 - 20x1.125	125
6	6.5	3.563	2.188	2.688	.625	4.938	2	.156	1.25	..	1.563	1.438	.5	1.66	3.313	(5) .313 - 18x1.125	200
7	7.375	4.313	2.688	3.188	.813	5.625	2.688	.219	1.625	..	1.688	1.563	.75	2.25	3.875	(5) .313 - 18x1.25	300
8	8.375	4.438	2.813	3.313	.813	6.5	3.188	.219	1.625	..	1.813	1.688	.875	2.688	4.625	(6) .313 - 18x1.5	300
9	9.25	5.188	3.438	3.938	1.167	7.375	3.875	.281	2.25	..	1.438	1.813	.875	3.313	5.25	(6) .375 - 16x1.75	400
10	10	5.813	3.563	4.167	1.167	8.313	4.625	.313	2.75	..	1.563	1.563	1	3.875	6	(6) .375 - 16x1.75	400
11	11	5.625	3.125	3.875	1.167	9	4.625	.313	2.75	..	1.375	1.375	.938	3.875	6.5	(6) .375 - 16x1.75	400
12	12.375	7.25	4	4.75	1.375	10.167	6	.438	3.25	..	1.25	1.25	.75	5	7.25	(6) .5 - 13x2.25	900

Shaft ends are normally M or N apart; they may project beyond the bushings. In this case allow space for end float and misalignment.

* Clearance required to remove bushing using pull-up capscrews as jackscrews.

** Grade 8.

Dimensions in inches.

Other Sizes Available as Made-to-Order



Martin Flex® flexible couplings smoothly transmit power while compensating for shaft misalignment to 4°, parallel misalignment to .125" and end float to .313". The two piece flange design provides quick and easy installation and the elastomeric element absorbs shock and torsional vibration through a wide temperature range.

Selection Procedure

1. Select the proper service factor from Chart 1.
2. Determine **Design Horsepower** by multiplying the **Service Factor** and the **Drive Horsepower**.
3. Locate the intercept of **Shaft Speed** and **Design Horsepower** from Chart 2.
4. Order per coupling: (2) bushings, (2) flange assemblies, (1) flexible tire element.

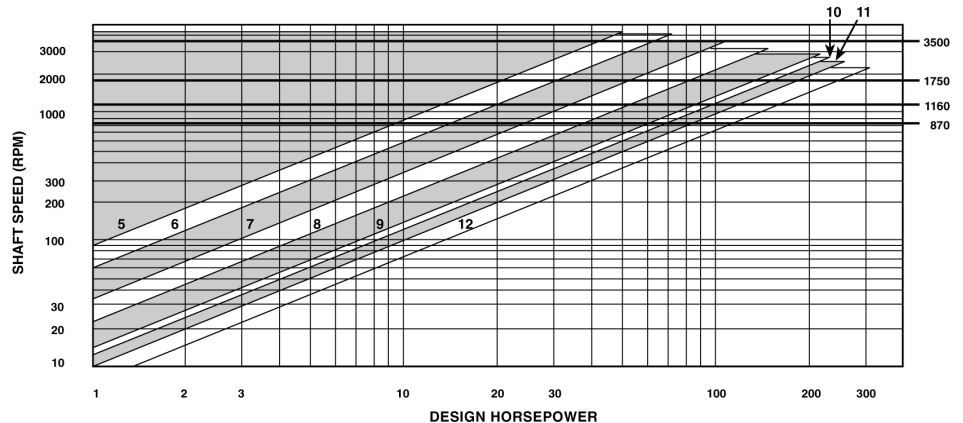
Chart 1 Service Factors

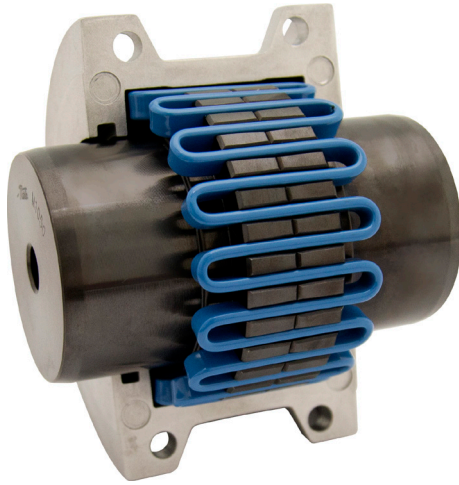
Application	Factor	Application	Factor	Application	Factor	Application	Factor
AGITATORS		Cutter Head Drive, Jog Drive	2.5	METAL FORMING MACHINES		PROPELLER (MARINE)	1.5
Paddle or Propeller (Vert. or Horiz.), Screw	1.0	Pump, Screen Drive, Stacker, Utility Winch	1.5	Draw Bench Carriage, Main Drive, Extruder, Wire Drawing, Flattening Machine	2.0	PULVERIZERS	
BREWING AND DISTILLING		DYNAMOMETER	1.0			Hammermill — Light Duty	1.5
Bottling Machinery, Brew Kettle, Cooker (Cont Duty), Mash Tub	1.0	ELEVATORS		MILLS (ROTARY TYPE)		Hammermill — Heavy Duty	2.0
Scale Hopper — Frequent Starting Peaks	1.5	Bucket, Freight	2.0	Ball or Pebble Direct or on LS Shaft Gear Reducer	2.5	Hog	2.0
CAN FILLING MACHINE	1.0	EXCITER	1.0	on HS Shaft Gear Reducer	2.0	Roller	1.5
CAR DUMPER	1.5	FANS		Dryer and Cooler	1.5	PUMPS	
CAR PULLER	1.5	Centrifugal	1.0	on LS Shaft Gear Reducer	2.5	Centrifugal	1.0
CLARIFIER	1.0	Cooling Tower	2.0	on LS Shaft Gear Reducer	2.5	Descaling, Gear Type	1.5
CLASSIFIER	1.0	Large (Mine, etc.)	1.5	on HS Shaft Gear Reducer	2.0	Oil Well Pumping (not over 150% peak torque)	2.0
CLAY-WORKING MACHINES		Light	1.0	Tumbling Barrel	1.5	Rotary — other than gear	1.5
Brick Press, Briquette Machine, Clay Working Machine, Pug Mill	1.5	FOOD INDUSTRY		MIXERS		Reciprocating —	
COMPRESSORS		Beet Slicer	1.5	Concrete (Continuous or Intermittent), Muller-Simpson type	1.5	1 cyl. — single acting	2.5
Lobe, Rotary	2.0	Cereal Cooker	1.0	OIL INDUSTRY		1 cyl. — double acting	2.0
Reciprocating** —		Dough Mixer, Meat Grinder	1.5	Chiller	1.0	2 cyl. — single acting	2.0
1 cyl. — single acting	3.5	GENERATORS		Oil Well Pumping (not over 150% peak torque)	2.0	2 cyl. — double acting	1.5
1 cyl. — double acting	3.0	Even Load	1.0	Paraffin Filter Press	1.5	3 cyl. — or more	1.5
2 cyl. — single acting	3.0	Hoist or Railway Service	1.5	PAPER MILLS		RUBBER INDUSTRY	
2 cyl. — double acting	2.5	Welder Load	2.0	Agitator	1.0	BANBURY MIXER	2.5
3 cyl. or more — single acting	2.5	GRIZZLY	2.0	Barking Drum	2.5	Calender	2.0
3 cyl. or more — double acting	2.0	KILN	2.0	Beater and Pulper	1.5	Cracker, Mixing Mill, Plasticator	2.5
CONVEYORS		LAUNDRY MACHINES		Bleacher	1.0	Refiner, Sheeter, Tire Building Machine	2.0
Apron, Assembly, Belt, Chain, Flight, Oven	1.0	Tumbler, Washer	2.0	Calender	2.0	Tire and Tube Press Opener (Based on Peak Torque)	1.0
Reciprocating	2.5	LINE SHAFTS		Chipper	3.0	Tuber and Strainer	1.5
Screw	1.0	Driving Processing Machinery	1.0	Couch, Cylinder, Dryer	1.5	Warming Mill	2.0
CRANES AND HOISTS		Light	1.0	Felt Stretcher	1.0	Washer	2.5
Main Hoist — Medium Duty	1.5	LUMBER INDUSTRY		Fourdrinier	1.5	SCREENS	
Main Hoist — Heavy Duty	2.0	Band Resaw, Circular Resaw	1.5	Jordan	2.0		
Skip Hoist, Travel Motion, Trolley Motion, Slope	1.5	Edger, Head Rig, Hog, Log Haul	2.0	Press	2.0		
CRUSHERS		Planer	1.5	Pulp Grinder	2.0		
Cane	2.0	Rolls Non-Reversing	1.5	Stock Chest	1.5		
Gyratory	2.5	Rolls Reversing	2.0	Stock Pump Reciprocating	2.0		
DREDGES		Sawdust Conveyor	1.0	Rotary	1.5		
Cable Reel, Conveyor	1.5	Slab Conveyor, Sorting Table	1.5	Suction Roll	2.0		
		MACHINE TOOLS		Winder	1.5		
		Auxiliary	1.0	PARAFFIN FILTER PRESS	1.5		
		Main Drive, Notching Press, Planer (Reversing), Plate	1.5	PRINTING PRESS	1.5		
		Planer, Punch Press	1.5				
		Traverse	1.0				

The service factors listed are intended only as a general guide for smooth power sources such as electric motors and steam turbines. Add 0.5 to factor for somewhat rougher power sources such as internal combustion engines of four or more cylinders, steam engines and water turbines. Where substantial shock occurs or starting or stopping is frequent as on some "inching" drives and on some reversing drives or where the power source is an internal combustion engine with less than four cylinders — consult factory. Where torsional vibrations occur as in, for example, internal combustion engines or reciprocating compressors or pump applications, check the coupling for possible development of damaging large amplitude vibrations.

** Add 0.5 to factor if without flywheel.

Chart 2 Size Selection



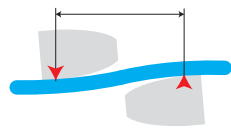
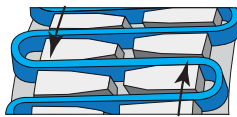


Martin Blue-Flex® Grid Couplings are the best option where both high torque levels and dampening requirements exist. Unlike other metallic couplings, *Martin* Blue-Flex® Grid

Couplings have the ability to reduce vibration and cushion shock loads to driven and driving power transmitting equipment components.

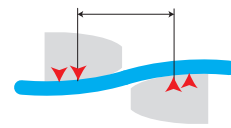
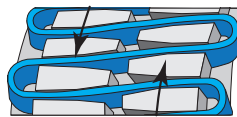
Progressive contact between the curved profile of the hub teeth and the flexible grid makes it possible to absorb impact energy by spreading it out, reducing the magnitude of the peak loads.

Martin Blue-Flex® Grid Couplings follow the same *Martin* Product/Service Standards that make *Martin* the One Industries Rely On for Quality, Availability, Service and Response Time that is second to none.



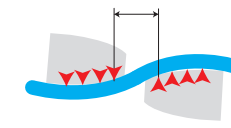
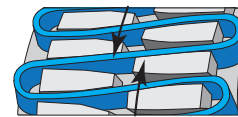
Light Load

The grid bears the stress near the outer edge of the hub teeth. The long span between the point of contact remains free to flex under load variations.



Normal Load

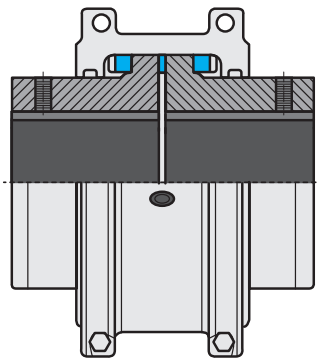
As the load increases, the distance between contact points on the hub teeth is shortened, but a free span still remains to cushion shock loads.



Shock Load

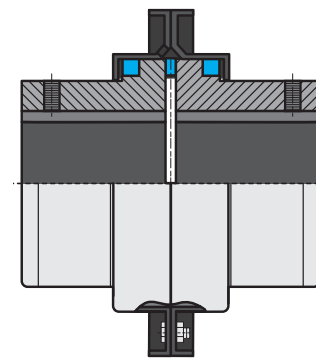
The coupling is flexible within its rated capacity. Under extreme overloads, the grid bears the stress fully on the hub teeth and transmits full load directly.

Available in 2 Close-Coupled Styles



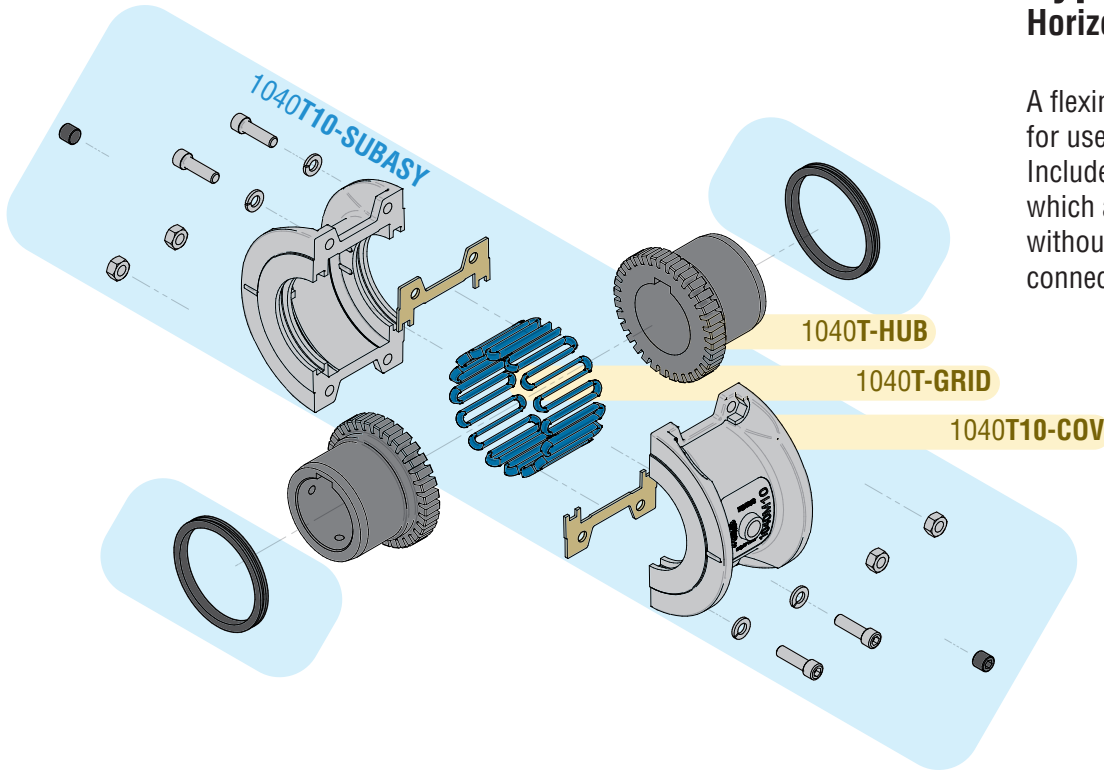
T10

A flexing, close-coupled design for use in four-bearing systems. Includes a horizontally split cover which allows for grid replacement without disturbance of the connected equipment.



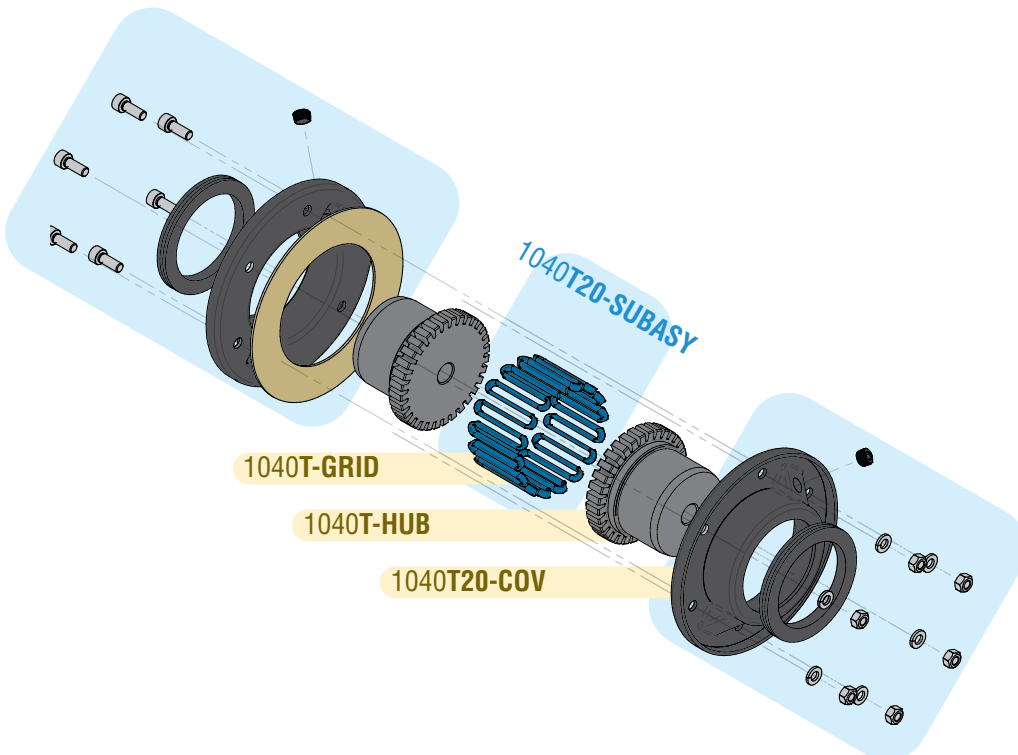
T20

A flexing design featuring a vertically-split steel cover. Ideal for higher running speeds and higher torque capacity.



Type T10 Horizontal Cover Design

A flexing, close-coupled design for use in four-bearing systems. Includes a horizontally split cover which allows for grid replacement without disturbance of the connected equipment.

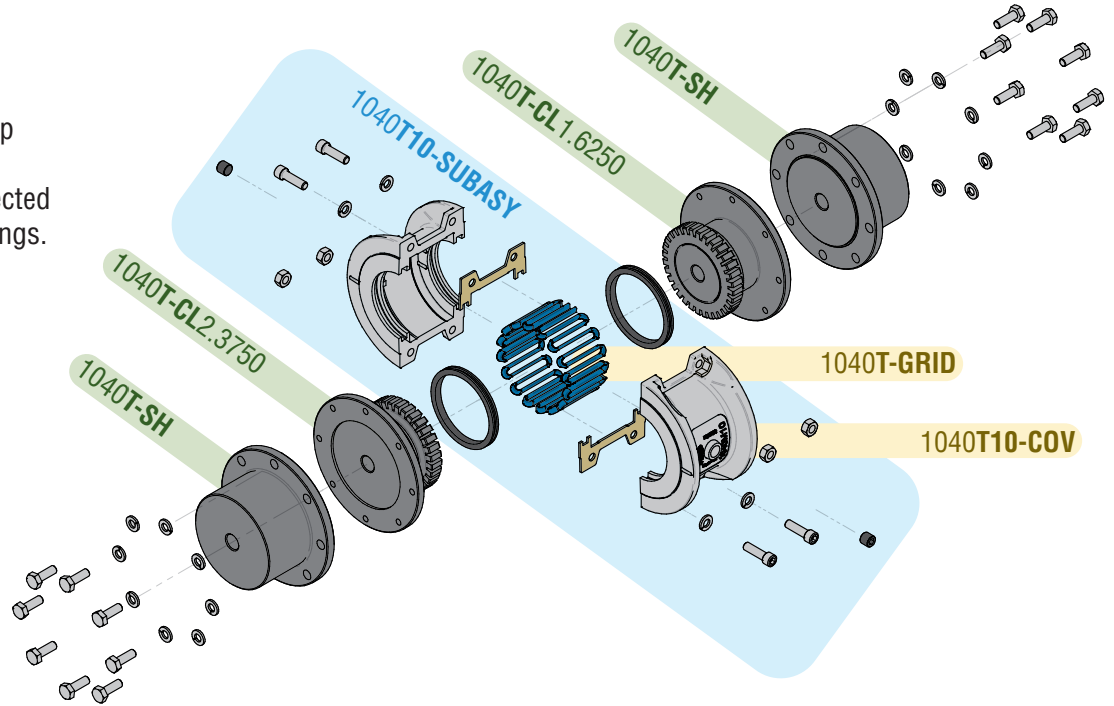


Type T20 Vertical Cover Design

A flexing design featuring a vertically-split steel cover. Ideal for higher running speeds and higher torque capacity.

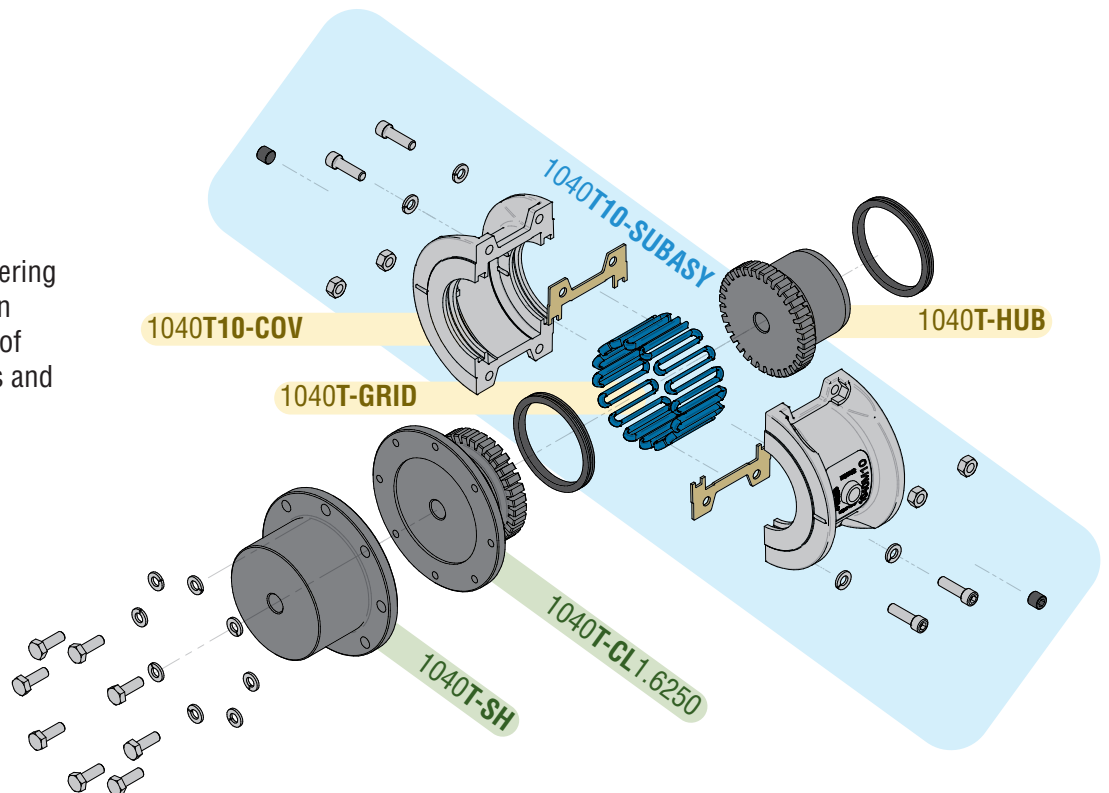
Type T31 Spacer Design

A complete Full Spacer drop out center section allowing easy maintenance of connected equipment, seals and bearings.



Type T35 Half Spacer Design

An economical solution, offering Half Spacer drop out section allowing easy maintenance of connected equipment, seals and bearings.



Standard Selection Method

The standard selection method can be used for most motor, turbine or engine-driven applications. The following information is required to select a flexible coupling:

- Horsepower or torque
- Running RPM
- Application or type of equipment to be connected
- Shaft diameters
- Shaft gaps
- Physical space limitations
- Special bore or finish, and type of fit

Step 1. Rating: Determine system torque. If torque is not given, calculate as shown below:

$$\text{Torque (lb-in)} = \frac{\text{HP} \times 63,000}{\text{RPM}}$$

Where horsepower is the actual or transmitted power required by the application (if unknown, use the motor or turbine nameplate rating) and rpm is the actual speed the coupling is rotating. Applications that require rapid changes in direction or torque reversals should be referred to *Martin* Engineering.

Step 2. Service Factor: Determine appropriate service factor from C-40.

Step 3. Required Minimum Coupling Rating: Determine the required minimum coupling rating as shown below:

$$\text{Min. Coupling Rating} = \text{S.F. (Service Factor)} \times \text{Torque (lb-in)}$$

Step 4. Type: Refer to pages C-34 and C-35 and select the appropriate coupling type.

Step 5. Size: Turn to appropriate pages for the coupling type chosen and trace down the torque column to a value that is equal or greater than that determined in Step 3 above. The coupling size is shown in the first column.

Step 6. Check: Speed (RPM), bore, gap and dimensions.

Example: A Field Engineer wants to use a Grid Coupling to connect a 60 horsepower electric motor running at 1750 RPM to a rotary lobe compressor. The shaft diameter of both the motor and compressor is 1 3/4". Motor shaft extension is 3" and compressor shaft extension is 2 1/2". Gap between shaft ends is 1/8".

1. Determine Required Rating:

$$\text{Torque (lb-in)} = \frac{60 \times 63,000}{1750 \text{ RPM}} = 2160 \text{ lb-in}$$

2. Service Factor: From C-38 = 1.25

3. Required Min. Coupling Rating:

$$1.25 \times 2160 \text{ lb-in} = 2700 \text{ lb-in}$$

4. Size: From page C-42 a size 1050T10 is the proper selection based on a torque rating of 3850 lb-in exceeding the required min. coupling rating of 2700 lb-in.

5. Check: Allowable speed capacity of 4500 (T10) exceeds the required speed of 1750 rpm. Maximum bore capacity of 1 7/8" exceeds the actual shaft diameters.

Formula Selection Method

The Standard Selection Method will work when selecting most couplings. The Formula Selection Method should be used for:

- High Peak Loads
- High Braking Torques

Providing system peak torque and frequency, duty cycle and brake torque rating will allow for a more refined selection using the Formula Selection Method.

1. High Peak Loads: Use one of the following formulas for applications using motors with torque characteristics that are higher than normal; applications with intermittent operations, shock loading, inertia effects due to starting and stopping and/or system-induced repetitive high peak torques. System Peak Torque is the maximum torque that can exist in the system. Select a coupling with a torque rating equal to or greater than selection torque calculated below.

a. Non-Reversing High Peak Torque

Selection Torque (lb-in) = System Peak Torque
or

$$\text{System Torque (lb-in)} = \frac{\text{System Peak HP} \times 63,000}{\text{RPM}}$$

b. Reversing High Peak Torque

Selection Torque (lb-in) = 2 x System Peak Torque
or

$$\text{System Torque (lb-in)} = \frac{2 \times \text{Peak HP} \times 63,000}{\text{RPM}}$$

c. Occasional Peak Torques (Non-reversing) If a system peak torque occurs less than 1000 times during the expected coupling life, use the following formula:

Selection Torque (lb-in) = 0.5 x System Peak Torque
or

$$\text{System Torque (lb-in)} = \frac{0.5 \times \text{Peak HP} \times 63,000}{\text{RPM}}$$

2. High Braking Torques: If the torque rating of the braking exceeds the motor torque, use the braking rating as follows:

Selection Torque (lb-in) = Braking Torque Rating x S.F.

Example: A Maintenance Engineer needs a Grid Coupling to connect an electric motor to a reversing runout mill table roll. The system peak torque is estimated to be 118,000 lb-in with the motor running at 80 RPM. The motor shaft diameter is 7" and the driven shaft diameter is 8". The motor and driven shaft extensions are both 8 1/2". Distance between shaft ends is 8.00".

1. Type: Refer to pages C-34 and C-35 and select the appropriate.

2. Required Minimum Coupling Rating:

Use the Reversing High Peak Torque formula.
2 x 118,000 = 236,000 = Selection Torque

3. Size: From page C-46 a size 1140T10 with a torque rating of 253,000 exceeds the selection torque of 236,000 lb-in.

4. Check: The 1140T35 has a maximum BE dimension of 8.06"; maximum bore of 8" with one rectangular key (Table 3, page C-37); and the allowable speed of 1650 rpm and the dimensions on page C-46, meet the requirements.

Table 3 – Coupling Ratings & Allowable Speeds

Coupling Size	HP per 100 RPM	Torque Rating (lb-in)	Allowable Speeds – RPM ★		
			T10	T20	T31, T35, T10/82
1020T	0.73	460	4,500	6,000	3,600
1030T	2.09	1,320	4,500	6,000	3,600
1040T	3.49	2,200	4,500	6,000	3,600
1050T	6.11	3,850	4,500	6,000	3,600
1060T	9.60	6,050	4,350	6,000	3,600
1070T	14.0	8,800	4,125	5,500	3,600
1080T	28.8	18,150	3,600	4,750	3,600
1090T	52.4	33,000	3,600	4,000	3,600
1100T	88.1	55,550	2,440	3,250	2,440
1110T	131	82,500	2,250	3,000	2,250
1120T	192	121,000	2,025	2,700	2,025
1130T	279	176,000	1,800	2,400	1,800
1140T	401	253,000	1,650	2,200	1,650
1150T	559	352,000	1,500	2,000	1,500
1160T	785	495,000	1,350	1,750	1,350
1170T	1047	660,000	1,225	1,600	1,225
1180T	1452	915,200	1,100	1,400	1,100
1190T	1920	1,210,000	1,050	1,300	1,050
1200T	2618	1,650,000	900	1,200	900

★ Consult *Martin* for higher speeds.

Blue-Flex[®] Selection Procedure



Quick Selection Method

Step 1. Select Coupling Type. Refer to pages C-34 and C-35 and select the type of coupling to suit your application. If an application requires a special purpose coupling, refer application details to your local *Martin* representative.

Step 2. Determine Service Factor. Refer to Table 6 and Table 7.

A. Refer to the Formula Selection Method if your application has high braking torques or high peak loads.

Step 3. Determine Equivalent Horsepower. Refer to Table 4 – Under the actual HP required and tracing horizontally from the service factor determined in Step 2, read the equivalent HP.

Step 4. Determine Coupling Size.

- Refer to Table 5 – Trace horizontally from the required speed to a hp value equal to or larger than the hp determined in Step 3. Read the coupling size at top of column.
- Check shaft diameters on coupling maximum bores shown on pages for the type of coupling selected. If a larger bore is required, select a larger coupling.
- Check the required speed against the allowable speed shown in Table 3 page C-37 for the type of coupling selected. If a higher speed is required, refer to *Martin* Engineering.
- Check application dimension requirements against catalog page for the type of coupling selected.

Example: A 400 horsepower electric motor rated for 1200 RPM needs a Grid Coupling to drive a tire shredder. The shaft gap is 0.1" to 0.2". The motor shaft diameter is 3" and the driven shaft diameter is 3 1/4". The motor and driven shaft extensions are both 5".

- Select Coupling Type:** To connect close-coupled shafts (0.1" to 0.2" gap), a Type T10 or T20 coupling is the proper selection. Type T10 is selected.
- Determine Service Factor:** From Table 6, the service factor is 1.5.
- Determine Equivalent HP:** From Table 4, the equivalent HP is 600.
- Select Coupling Size:** (A) From Table 5, the coupling size is 1090T10. (B) From Table 8, the maximum bore with square key is 3.500". (C) From Table 3, the allowable speed of a 1090T10 is 3600 RPM. (D) Dimensions for the 1090T10 coupling shown on page C-42 satisfies the application requirements.

Table 4 – Equivalent Horsepower = (Actual HP x Service Factor)

Service Factor •	Actual HP																									
	3/4	1	1-1/2	2	3	5	7-1/2	10	15	20	25	30	40	50	60	75	100	125	150	200	250	300	350	400	450	500
1.00	0.75	1.0	1.5	2.0	3.0	5.0	7.5	10	15	20	25	30	40	50	60	75	100	125	150	200	250	300	350	400	450	500
1.25	0.94	1.25	1.9	2.5	3.8	6.3	9.4	12.5	19	25	31	38	50	63	75	94	125	156	188	250	312	375	438	500	563	625
1.50	1.1	1.5	2.3	3.0	4.5	7.5	11.3	15	23	30	38	45	60	75	90	113	150	188	225	300	375	450	525	600	675	750
1.75	1.3	1.8	2.6	3.5	5.3	8.8	13.1	18	26	35	44	53	70	88	105	131	175	219	262	350	438	525	613	700	787	875
2.00	1.5	2.0	3.0	4.0	6.0	10.0	15.0	20	30	40	50	60	80	100	120	150	200	250	300	400	500	600	700	800	900	1000
2.50	1.9	2.5	3.8	5.0	7.5	12.5	18.8	25	38	50	63	75	100	125	150	187	250	312	375	500	625	750	875	1000	1125	1250
3.00	2.3	3.0	4.5	6.0	9.0	15.0	22.5	30	45	60	75	90	120	150	180	225	300	375	450	600	750	900	1050	1200	1350	1500
3.50	2.6	3.5	5.3	7.0	10.5	17.5	26.2	35	52	70	87	105	140	175	210	262	350	437	525	700	875	1050	1225	1400	1575	1750

• For service factor not listed, Equivalent HP = Actual HP x Service Factor.



Blue-Flex® Selection Procedure

Table 5 – Coupling Selection Based on Equivalent HP Ratings

Coupling Size	1020T	1030T	1040T	1050T	1060T	1070T	1080T	1090T	1100T	1110T	1120T	1130T	1140T	1150T	1160T	1170T	1180T	1190T	1200T
Max Bore (in)	1.125	1.375	1.625	1.875	2.125	2.500	3.000	3.500	4.000	4.500	5.000	6.000	7.250	8.000	9.000	10.000	11.000	12.000	13.000
Max Speed T10 RPM	4500	4500	4500	4500	4350	4125	3600	3600	2440	2250	2025	1800	1650	1500	1350	1225	1100	1050	900
Max Speed T20 RPM	6000	6000	6000	6000	6000	5500	4750	4000	3250	3000	2700	2400	2200	2000	1750	1600	1400	1300	1100
Torque (lb-in)	460	1320	2200	3850	6050	8800	18,150	33,000	55,550	82,500	121,000	176,000	253,000	352,000	495,000	660,000	915,200	1,210,000	1,650,000
HP/100 RPM	0.73	2.09	3.49	6.11	9.60	14.0	28.8	52.4	88.1	131	192	279	401	559	785	1047	1452	1920	2618
HP Ratings																			
RPM	4500	32.8	94.2	157	275	432	628	1296	—	—	—	—	—	—	—	—	—	—	—
	3600	26.3	75.4	126	220	346	503	1037	—	—	—	—	—	—	—	—	—	—	—
	3000	21.9	62.8	105	183	288	419	864	2644	3927	—	—	—	—	—	—	—	—	—
	2500	18.2	52.4	87	153	240	349	720	2203	3273	3456	—	—	—	—	—	—	—	—
	2100	15.3	44.0	73.3	128	202	293	605	1851	2749	3456	5864	8430	—	—	—	—	—	—
	1800	13.1	37.7	62.8	110	173	251	518	1587	2356	3456	5027	7226	10053	—	—	—	—	—
	1750	12.8	36.7	61.1	107	168	244	504	1542	2291	3360	4887	7025	9774	13745	—	—	—	—
	1450	10.6	30.4	50.6	89	139	202	418	1278	1898	2784	4049	5821	8098	11388	15184	—	—	—
	1170	8.5	24.5	40.8	71.5	112	163	337	1031	1532	2246	3267	4697	6535	9189	12252	—	—	—
	1000	7.3	20.9	34.9	61.1	96	140	288	881	1309	1920	2793	4014	5585	7854	10472	14521	19199	—
	870	6.3	18.2	30.4	53.1	84	121	251	767	1139	1670	2430	3492	4859	6833	9111	12633	16703	22777
	720	5.3	15.1	25.1	44.0	69	101	207	635	942	1382	2011	2890	4021	5655	7540	10455	13823	18850
	650	4.7	13.6	22.7	39.7	62.4	91	187	573	851	1248	1815	2609	3630	5105	6807	9439	12479	17017
	580	4.2	12.1	20.2	35.4	55.7	81	167	511	759	1114	1620	2328	3239	4555	6074	8422	11135	15184
	520	3.8	10.9	18.2	31.8	49.9	73	150	458	681	998	1452	2087	2904	4084	5445	7551	9983	13614
	420	3.1	8.8	14.7	25.7	40.3	59	121	370	550	806	1173	1686	2346	3299	4398	6099	8063	10996
	350	2.6	7.3	12.2	21.4	33.6	49	101	308	458	672	977	1405	1955	2749	3665	5082	6720	9163
	280	2.0	5.9	9.8	17.1	26.9	39.1	81	247	367	538	782	1124	1564	2199	2932	4066	5376	7330
	230	1.7	4.8	8.0	14.0	22.1	32.1	66	203	301	442	642	923	1285	1806	2409	3340	4416	6021
	190	1.4	4.0	6.6	11.6	18.2	26.5	55	167	249	365	531	763	1061	1492	1990	2759	3648	4974
	155	1.1	3.2	5.4	9.5	14.9	21.6	44.6	137	203	298	433	622	866	1217	1623	2251	2976	4058
	125	0.9	2.6	4.4	7.6	12.0	17.5	36.0	110	164	240	349	502	698	982	1309	1815	2400	3273
	100	0.73	2.1	3.5	6.1	9.6	14.0	28.8	88	131	192	279	401	559	785	1047	1452	1920	2618
	84	0.61	1.8	2.9	5.1	8.1	11.7	24.2	74	110	161	235	337	469	660	880	1220	1613	2199
	68	0.50	1.4	2.4	4.2	6.5	9.5	19.6	60	89	131	190	273	380	534	712	987	1306	1780
	56	0.41	1.17	2.0	3.4	5.4	7.8	16.1	49	73	108	156	225	313	440	586	813	1075	1466
	45	0.33	0.94	1.6	2.7	4.3	6.3	13.0	39.7	59	86	126	181	251	353	471	653	864	1178
	37	0.27	0.77	1.3	2.3	3.6	5.2	10.7	32.6	48.4	71	103	149	207	291	387	537	710	969
	30	0.22	0.63	1.0	1.8	2.9	4.2	8.6	26.4	39.3	58	84	120	168	236	314	436	576	785
	25	0.18	0.52	0.9	1.5	2.4	3.5	7.2	22.0	32.7	48.0	70	100	140	196	262	363	480	655
	20	0.15	0.42	0.70	1.2	1.9	2.8	5.8	17.6	26.2	38.4	56	80	112	157	209	290	384	524
	16.5	0.12	0.35	0.58	1.0	1.6	2.3	4.8	14.5	21.6	31.7	46.1	66	92	130	173	240	317	432
	13	0.095	0.27	0.45	0.79	1.2	1.8	3.7	11.5	17.0	25.0	36.3	54	75	106	141	196	259	353
	11	0.080	0.23	0.38	0.67	1.1	1.5	3.2	9.7	14.4	21.1	30.7	44.2	61	86	115	160	211	288
	9	0.066	0.19	0.31	0.55	0.86	1.3	2.6	7.9	11.8	17.3	25.1	36.1	50	71	94	131	173	236
	7.5	0.055	0.16	0.26	0.46	0.72	1.0	2.2	6.6	9.8	14.4	20.9	30.1	42	59	79	109	144	196
	5	0.036	0.10	0.17	0.31	0.48	0.7	1.4	4.4	6.5	9.6	14.0	20.1	27.9	39	52	73	96	131

◇ Ratings apply to Type T20 only.

Blue-Flex® Selection Procedure



Table 6 – Flexible Coupling Service Factors • Service factors listed are typical values based on normal operation of the drive systems.

Application	Service Factor	Application	Service Factor	Application	Service Factor	Application	Service Factor
AERATOR	2.0	Live Roll, Shaker and Reciprocating	3.0	Welder Load	2.0	Centrifugal — Constant Speed	1.0
AGITATORS		CRANES AND HOIST		HAMMERMILL	1.75	Frequent Speed Changes under Load	1.25
Vertical and Horizontal Screw, Propeller, Paddle	1.0	Main Hoist	1.7	LAUNDRY WASHER OR TUMBLER	2.0	Descaling, with accumulators	1.25
BARGE HAUL PULLER	1.5	Skip Hoist	1.75	LINE SHAFTS		Gear, Rotary, or Vane	1.25
BLOWERS		Slope	1.5	Any Processing Machinery	1.5	Reciprocating, Plunger Piston	
Centrifugal	1.0	Bridge, Travel or Trolley	1.75	MACHINE TOOLS		1 cyl., single or double act	3.0
Lobe or Vane	1.25	DYNAMOMETER	1.0	Auxiliary and Traverse Drive	1.0	2 cyl., single acting	2.0
CAR DUMPERS	2.5	ELEVATORS		Bending Roll, Notching Press, Punch Press, Planer, Plate Reversing	1.75	2 cyl., double acting	1.75
CAR PULLERS	1.5	Bucket, Centrifugal Discharge	1.25	Main Drive	1.5	3 or more cylinders	1.5
CLARIFIER OR CLASSIFIER	1.0	Freight or Passenger	∅	Gravity Discharge	∅	Screw Pump, Progressing Cavity	1.25
COMPRESSORS		ESCALATORS	∅	MAN LIFTS		Vacuum Pump	1.25
Centrifugal	1.0	EXCITER, GENERATOR	1.0	METAL FORMING MACHINES		SCREENS	
Rotary, Lobe or Vane	1.25	EXTRUDER, PLASTIC	1.5	Continuous Caster	1.75	Air Washing	1.0
Rotary, Screw	1.0	FANS		Draw Bench Carriage and Main Drive	2.0	Grizzly	2.0
Reciprocating Direct Connected	•	Centrifugal	1.0	Extruder	2.0	Rotary Coal or Sand	1.5
Without Flywheel	•	Cooling Tower	2.0	Farming Machine and Forming Mills	2.0	Vibrating	2.5
With Flywheel and Gear between Compressor and Prime Mover		Forced Draft — Across the Line start	1.5	Slitters	1.0	Water	1.0
1 cylinder, single acting	3.0	Forced Draft Motor driven thru fluid or electric slip clutch	1.0	Wire Drawing or Flattening	1.75	SKI TOWS & LIFTS	∅
2 cylinders, single acting	3.0	Gas Recirculating	1.5	Wire Winder	1.5	STEERING GEAR	1.0
3 cylinders, single acting	3.0	Induced Draft with damper control or blade cleaner	1.25	Coilers and Uncoilers	1.5	STOKER	1.0
3 cylinders, double acting	2.0	Induced Draft without controls	2.0	MIXERS (see Agitators)		TIRE SHREDDER	1.50
4 or more cyl., single act	1.75	FEEDERS		Concrete	1.75	TUMBLING BARREL	1.75
4 or more cyl., double act	1.75	Apron, Belt, Disc, Screw	1.0	Muller	1.5	WINCH, MANEUVERING	
CONVEYORS		Reciprocating	2.5	PRESS, PRINTING	1.5	Dredge, Marine	1.5
Apron, Assembly, Belt, Chain, Flight, Screw	1.0	GENERATORS		PUG MILL	1.75	WINDLASS	1.5
Bucket	1.25	Even Load	1.0	PULVERIZERS		WOODWORKING MACHINERY	1.0
		Hoist or Railway Service	1.5	Hammermill and Hog	1.75	WORK LIFT PLATFORMS	∅
				Roller	1.5		
				PUMPS			
				Boiler Feed	1.5		

Industry	Service Factor	Industry	Service Factor	Industry	Service Factor	Industry	Service Factor
AGGREGATE, CEMENT, MINING		Rolls, Non-Reversing	1.25	Shear, Croppers	•	Constant Speed	1.0
KILNS; TUBE, ROD AND BALL MILLS		Rolls, Reversing	2.0	Sideguards	3.0	Frequent Speed Changes Under Load	1.25
Direct or on L.S. shaft of Reducer, with final drive Machined Spur Gears	2.0	Sawdust Conveyor	1.25	Skelp Mills	•	Suction Roll	1.75
Single Helical or Herringbone Gears	1.75	Slab Conveyor	1.75	Slitters, Steel Mill only	1.75	Vacuum Pumps	1.25
Conveyors, Feeders, Screens, Elevators	★	Sorting Table	1.5	Soaking Pit Cover Drives —		RU BBER INDUSTRY	
Crushers, Ore or Stone	2.5	Trimmer	1.75	Lift	1.0	Calender	2.0
Dryer, Rotary	1.75	METAL ROLLING MILLS		Travel	2.0	Cracker, Plasticator	2.5
Grizzly	2.0	Coilers (Up or Down) Cold Mills only	1.5	Straighteners	2.0	Extruder	1.75
Hammermill or Hog	1.75	Coilers (Up or Down) Hot Mills only	2.0	Unscramblers (Billet Bundle Busters)	2.0	Intensive or Banbury Mixer	2.5
Tumbling Mill or Barrel	1.75	Coke Plants		Wire Drawing Machinery	1.75	Mixing Mill, Refiner or Sheeter	
BREWING AND DISTILLING		Pusher Ram Drive	2.5	OIL INDUSTRY		One or two in line	2.5
Bottle and Can Filling Machines	1.0	Door Opener	2.0	Chiller	1.25	Three or four in line	2.0
Brew Kettle	1.0	Pusher or Larry Car Traction Drive	3.0	Oilwell Pumping	2.0	Five or more in line	1.75
Cookers, Continuous Duty	1.25	Continuous Caster	1.75	(not over 150% peak torque)		Tire Building Machine	2.5
Lauter Tub	1.5	Cold Mills — Strip Mills	•	Paraffin Filter Press	1.5	Tire & Tube Press Opener (Peak Torque)	1.0
Mash Tub	1.25	Temper Mills	•	Rotary Kiln	2.0	Tuber, Strainer, Pelletizer	1.75
Scale Hopper, Frequent Peaks	1.75	Cooling Beds	1.5	PAPER MILLS		Warming Mill	
CLAY WORKING INDUSTRY		Drawbench	2.0	Barker Auxiliary, Hydraulic	2.0	One or two Mills in line	2.0
Brick Press, Briquette Machine, Clay Working		Feed Rolls - Blooming Mills	3.0	Barker, Mechanical	2.0	Three or more Mills in line	1.75
Machine, Pug Mill	1.75	Furnace Pushers	2.0	Barking Drum		Washer	2.5
DREDGES		Hot and Cold Saws	2.0	L.S. shaft of reducer with final drive - Helical		SEWAGE DISPOSAL EQUIPMENT	
Cable Reel	1.75	Hot Mills —		or Herringbone Gear	2.0	Bar Screen, Chemical Feeders, Collectors, Dewatering Screen, Grit Collector	1.0
Conveyors	1.25	Strip or Sheet Mills	•	Machined Spur Gear	2.5	SUGAR INDUSTRY	
Cutter head, Jig Drive	2.0	Reversing Blooming	•	Cast Tooth Spur Gear	3.0	Cane Carrier & Leveler	1.75
Maneuvering Winch	1.5	Slabbing Mills	•	Beater & Pulper	1.75	Cane Knife & Crusher	2.0
Pumps (uniform load)	1.5	Edger Drives	•	Bleachers, Coaters	1.0	Mill Stands, Turbine Driver with all Helical or Herringbone gears	1.5
Screen Drive, Stacker	1.75	Ingot Cars	2.0	Calender & Super Calender	1.75	Electric Drive or Steam Engine Drive with Helical, Herringbone, or Spur Gears with any Prime Mover	1.75
Utility Winch	1.5	Manipulators	3.0	Chipper	2.5	TEXTILE INDUSTRY	
FOOD INDUSTRY		Merchant Mills	•	Converting Machine	1.25	Batcher	1.25
Beet Slicer	1.75	Mill Tables		Couch	1.75	Calender, Card Machine	1.5
Bottling, Can Filling Machine	1.0	Roughing Breakdown Mills	3.0	Cutter, Felt Whipper	2.0	Cloth Finishing Machine	1.5
Cereal Cooker	1.25	Hot Bed or Transfer, non-reversing	1.5	Cylinder	1.75	Dry Can, Loom	1.5
Dough Mixer, Meat Grinder	1.75	Runout, reversing	3.0	Dryer	1.75	Dyeing Machinery	1.25
LUMBER		Runout, non-reversing, non-plugging	2.0	Felt Stretcher	1.25	Knitting Machine	•
Band Resaw	1.5	Reel Drives	1.75	Fourdrinier	1.75	Mangle, Napper, Soaper	1.25
Circular Resaw, Cut-off	1.75	Rod Mills	•	Jordan	2.0	Spinner, Tenter Frame, Winder	1.5
Edger, Head Rig, Hog	2.0	Screwdown	2.0	Log Haul	2.0		
Gang Saw (Reciprocating)	•	Seamless Tube Mills		Line Shaft	1.5		
Log Haul	2.0	Piercer	3.0	Press	1.75		
Planer	1.75	Thrust Block	2.0	Pulp Grinder	1.75		
		Tube Conveyor Rolls	2.0	Reel, Rewinder, Winder	1.5		
		Reeler	2.0	Stock Chest, Washer, Thickener	1.5		
		Kick Out	2.0	Stock Pumps, Centrifugal			

Table 7 – Engine Drive Service Factors

Service Factors (S. F.) for engine drives are those required for applications where good flywheel regulation prevents torque fluctuations greater than ±20%. For drives where torque fluctuations are greater or where the operation is near a serious critical or torsional vibration, a mass elastic study is necessary.

No. of Cylinders	4 or 5					6 or more				
	Table 6 S.F.	1.0	1.25	1.5	1.75	2.0	1.0	1.25	1.5	1.75	2.0
Engine S.F.	2.0	2.25	2.5	2.75	3.0	1.5	1.75	2.0	2.25	2.5

To use Table 7, first determine application service factor from Table 6. Use that factor to determine Engine Service Factor from Table 7. When service factor from Table 6 is greater than 2.0, or where 1, 2 or 3 cylinder engines are involved, refer complete application details to *Martin* Engineering.

- Refer to Factory
- ∅ Not Approved
- ★ See Application Listing

• For engine drives, refer to Table 7. Electric motors, generators, engines, compressors and other machines fitted with sleeves or straight roller bearings usually require limited end float couplings. If in doubt, provide axial clearances and centering forces to the Factory for a recommendation.

How to Order

To ensure your exact specifications are met the following information is required for a quote or order.

Step 1. Application: Driver & Driven

Step 2. Power: Normal hp, Maximum hp or Torque (lb-in)

Step 3. Speed (RPM)

Step 4. Quantity

Step 5 Coupling Size and Type

Step 6. Shaft Gap or distance between shaft ends (BE Dimension)

Step 7. Bore Sizes: Must specify clearance or interference fit, or fit will be furnished per Table 14, page C-54. Bore sizes will be furnished as per Table 16 on page C-55 or Table 17 on pages C-56 and C-57 unless specified differently

Step 8. Shaft Dimensions as follows:

For Straight Shafts:

Driving Shaft		Driven Shaft	
Diameter	_____	Diameter	_____
Tolerance	_____	Tolerance	_____
Length	_____	Length	_____
Keyway	_____	Keyway	_____

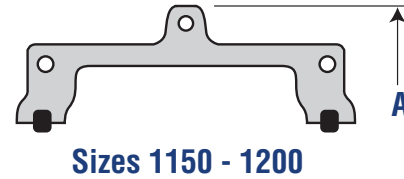
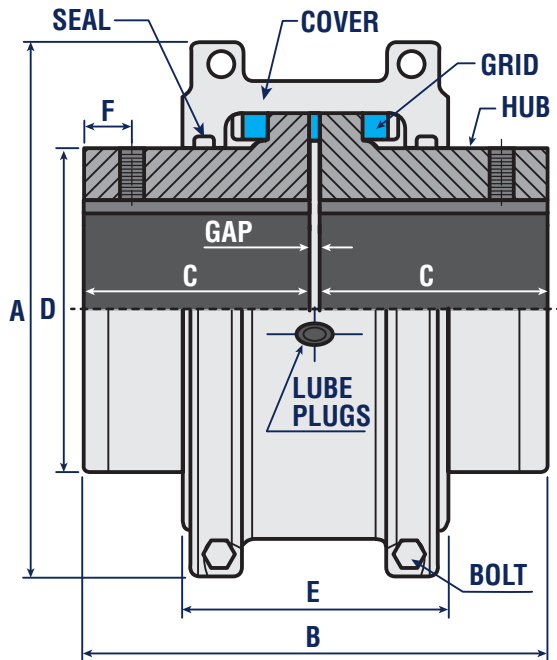
NOTE: Provide shaft tolerances if different than those shown in Table 15 through Table 17, pages C-46 to C-48. Unless otherwise specified, keyway sizes in inch shafts will be furnished based on key sizes listed in Table 14, page C-45, to *Martin* tolerances; metric keyways will be furnished for keys listed in Table 14, page C-45 per ISO/R773-1969 (ANSI/AGMA 9112) and JS9 width tolerances. For other shaft/bore requirements, consult *Martin*.

Service Factors

Are a guide, based on experience, of the ratio between coupling catalog rating and system characteristics. The system characteristics are best measured with a torque meter.

Torque Demands Driven Machine	Typical applications for electric motor or turbine driven equipment	Typical Service Factor
	Constant torque such as Centrifugal Pumps, Blowers and Compressors.	1.0
	Continuous duty with some torque variations including Plastic Extruders, Forced Draft Fans.	1.5
	Light shock loads from Metal Extruders, Cooling Towers, Cane Knife, Log Haul.	2.0
	Moderate shock loading as expected from a Car Dumper, Stone Crusher, Vibrating Screen.	2.5
	Heavy shock load with some negative torques from Roughing Mills, Reciprocating Pumps, Compressors, Reversing Runout Tables.	3.0
	Applications like Reciprocating Compressors with frequent torque reversals, which do not necessarily cause reverse rotations.	Refer to Factory

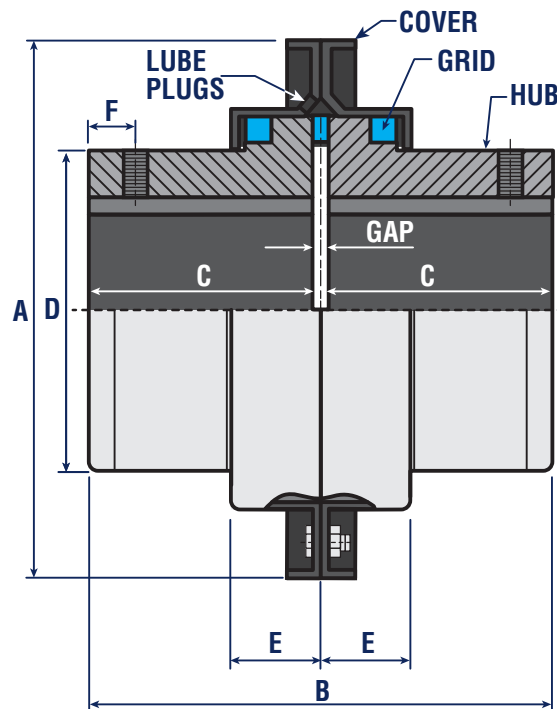
Stock T10 Cover Design



Martin Blue-Flex® Grid Coupling – T10 Style

Coupling Size	HP per 100 RPM	Max Speed (RPM)	Basic Torque (lb-in)	Bore Dia.		Dimensions (in)						Gap (in) Normal	Complete Weight (lb)	Lub. Wt. (lb)
				Max.	Min.	A	B	C	D	E	F			
1020T10	0.68	4,500	460	1.12	0.50	4.00	3.86	1.87	1.56	2.62	0.31	0.12	4.2	0.1
1030T10	1.93	4,500	1,320	1.37	0.50	4.37	3.86	1.87	1.94	2.69	0.31	0.12	5.7	0.1
1040T10	3.22	4,500	2,200	1.62	0.50	4.63	4.12	2.00	2.25	2.76	0.31	0.12	7.5	0.1
1050T10	5.63	4,500	3,850	1.87	0.50	5.43	4.87	2.37	2.63	3.13	0.31	0.12	11.9	0.1
1060T10	8.85	4,350	6,050	2.12	0.75	5.93	5.12	2.50	3.00	3.62	0.31	0.12	16.1	0.2
1070T10	13	4,125	8,800	2.50	0.75	6.37	6.12	3.00	3.44	3.74	0.50	0.12	22.0	0.2
1080T10	27	3,600	18,150	3.00	1.06	7.64	7.12	3.50	4.13	4.57	0.50	0.12	39.7	0.4
1090T10	48	3,600	33,000	3.50	1.06	8.39	7.87	3.87	4.87	4.80	0.63	0.12	55.1	0.6
1100T10	81	2,400	55,550	4.00	1.63	9.84	9.67	4.75	5.59	6.12	0.63	0.18	92.6	0.9
1110T10	121	2,250	82,500	4.50	1.63	10.63	10.18	5.00	6.31	6.36	0.75	0.18	119.0	1.1
1120T10	177	2,025	121,000	5.00	2.37	12.13	11.98	5.87	7.06	7.54	0.75	0.25	178.6	1.6
1130T10	257	1,800	176,000	6.00	2.63	13.62	12.98	6.37	8.56	7.68	1.19	0.25	266.8	2.0
1140T10	370	1,650	253,000	7.25	2.63	15.12	14.63	7.20	10.00	7.91	1.19	0.25	392.4	2.5
1150T10	515	1,500	352,000	8.00	4.25	17.84	14.64	7.20	10.60	10.68	1.19	0.25	515.9	4.3
1160T10	724	1,350	495,000	9.00	4.75	19.74	15.83	7.80	12.00	10.98	1.19	0.25	698.9	6.2
1170T10	965	1,225	660,000	10.00	5.25	22.30	17.24	8.50	14.00	11.98	1.19	0.25	987.7	7.7
1180T10	1338	1,100	915,000	11.00	6.00	24.80	19.05	9.40	15.50	12.64	1.50	0.25	1364.7	8.3
1190T10	1770	1,050	1,210,000	12.00	6.00	26.60	20.64	10.20	17.20	12.80	1.50	0.25	1710.8	9.7
1200T10	2413	900	1,650,000	13.00	7.00	29.80	22.24	11.00	19.60	14.00	1.50	0.25	2330.3	12.4

Consult *Martin* for higher speeds.
Max. bores listed fit standard recommended keys per ANSI B17.1



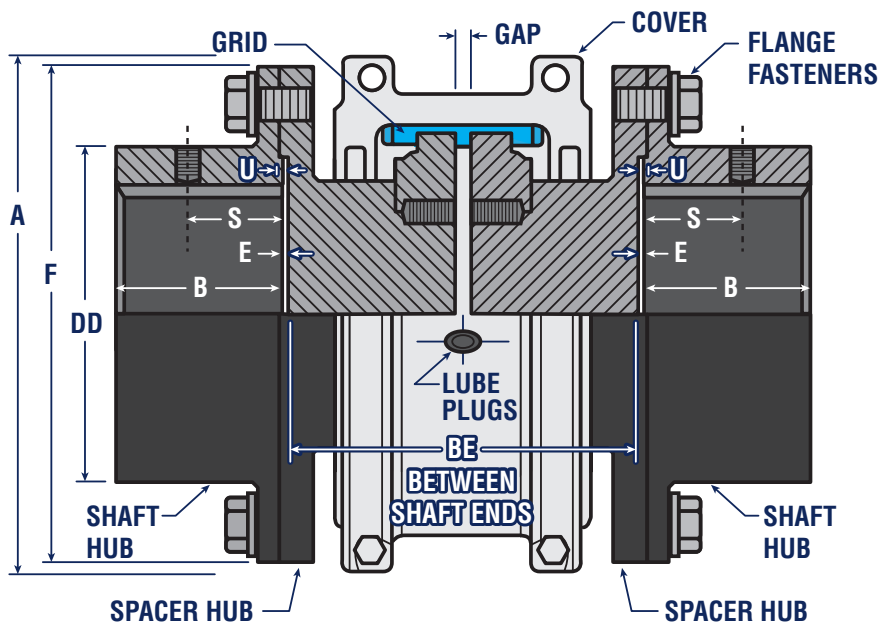
Martin Blue-Flex® Grid Coupling – T20 Style

Coupling Size	HP per 100 RPM	Max Speed (RPM)	Basic Torque (lb-in)	Bore Dia.		Dimensions (in)						Gap (in) Normal	Complete Weight (lb)	Lub. Wt. (lb)
				Max.	Min.	A	B	C	D	E	F			
1020T20	0.68	6000	460	1.12	0.50	4.37	3.86	1.87	1.56	0.95	0.31	0.12	4.4	0.1
1030T20	1.93	6000	1,320	1.37	0.50	4.75	3.86	1.87	1.94	0.98	0.31	0.12	5.7	0.1
1040T20	3.22	6000	2,200	1.62	0.50	5.06	4.12	2.00	2.25	1.01	0.31	0.12	7.5	0.1
1050T20	5.63	6000	3,850	1.87	0.50	5.81	4.87	2.37	2.63	1.23	0.31	0.12	11.9	0.1
1060T20	8.85	6000	6,050	2.12	0.75	6.40	5.12	2.50	3.00	1.27	0.31	0.12	16.1	0.2
1070T20	13	5500	8,800	2.50	0.75	6.81	6.12	3.00	3.44	1.33	0.50	0.12	22.9	0.2
1080T20	27	4750	18,150	3.00	1.06	7.87	7.12	3.50	4.13	1.74	0.50	0.12	39.0	0.4
1090T20	48	4000	33,000	3.50	1.06	8.42	7.87	3.87	4.87	1.88	0.63	0.12	56.0	0.6
1100T20	81	3250	55,550	4.00	1.63	10.50	9.67	4.75	5.59	2.36	0.63	0.18	93.0	0.9
1110T20	121	3000	82,500	4.50	1.63	11.25	10.18	5.00	6.31	2.53	0.75	0.18	119.9	1.1
1120T20	177	2700	121,000	5.00	2.37	12.56	11.98	5.87	7.06	2.89	0.75	0.25	179.9	1.6
1130T20	257	2400	176,000	6.00	2.63	14.87	12.98	6.37	8.56	2.96	1.19	0.25	270.1	2.0
1140T20	370	2200	253,000	7.25	2.63	16.38	14.63	7.20	10.00	3.08	1.19	0.25	397.1	2.5
1150T20	515	2000	352,000	8.00	4.25	18.75	14.64	7.20	10.60	4.21	1.19	0.25	507.1	4.3
1160T20	724	1750	495,000	9.00	4.75	21.00	15.83	7.80	12.00	4.50	1.19	0.25	707.9	6.2
1170T20	965	1600	660,000	10.00	5.25	23.00	17.24	8.50	14.00	4.70	1.19	0.25	988.1	7.7
1180T20	1,338	1400	915,000	11.00	6.00	24.80	19.04	9.40	15.50	5.12	1.50	0.25	1302.9	8.3
1190T20	1,770	1300	1,210,000	12.00	6.00	26.97	20.64	10.20	17.20	5.31	1.50	0.25	1677.7	9.7
1200T20	2,413	1100	1,650,000	13.00	7.00	29.02	22.24	11.00	19.60	5.71	1.50	0.25	2250.9	12.4

Consult *Martin* for higher speeds.

Max. bores listed fit standard recommended keys per ANSI B17.1

Stock T31 Spacer Design



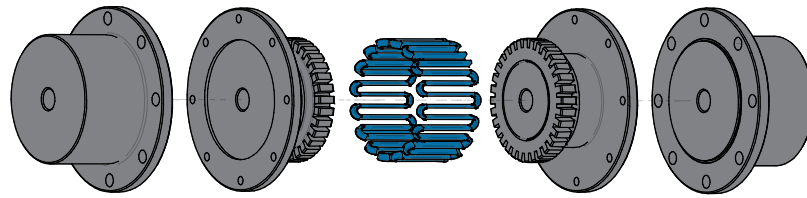
Martin Blue-Flex® Grid Coupling – T31 Style

Coupling Size	Torque Rating (in-lb)*	Allow Speed RPM**	Bore		A	B	BE		E	F	S	U	GAP	Flange Fasteners		Wt Without Bore & Min BE (lb)	Wt Added per inch of BE over Min (lb)	Lube Wt (lb)
			Max	Min ***			Min	Max						No. per Flange & Grade	Dia (in)			
1020T	460	3,600	1.38	0.5	3.82	1.38	3.5	8	0.03	3.38	1.08	0.08	0.19	4, GR 8	0.25	8.5	0.57	0.06
1030T	1,320	3,600	1.63	0.5	4.16	1.62	3.5	8.5	0.03	3.69	1.24	0.08	0.19	8, GR 8	0.25	11.5	0.87	0.09
1040T	2,200	3,600	2.13	0.5	4.5	2.12	3.5	8.5	0.03	4.44	1.08	0.08	0.19	8, GR 8	0.25	18.6	1.17	0.12
1050T	3,850	3,600	2.38	0.5	5.32	2.38	4.37	8.5	0.03	4.94	1.6	0.08	0.19	8, GR 8	0.31	28.2	1.58	0.15
1060T	6,050	3,600	2.88	0.75	5.82	2.88	4.81	13	0.06	5.69	1.7	0.11	0.19	8, GR 8	0.38	45.1	2.06	0.19
1070T	8,800	3,600	3.13	0.75	6.25	3.12	5	13	0.06	6	1.84	0.11	0.19	12, Gr 8	0.38	54.6	2.69	0.25
1080T	18,150	3,600	3.50	1.06	7.5	3.5	6.12	16	0.06	7	1.96	0.11	0.19	12, Gr 8	0.5	88.1	3.86	0.38
1090T	33,000	3,600	4	1.06	8.31	4	6.44	16	0.06	8.25	2.24	0.11	0.19	12, Gr 8	0.63	132	5.37	0.56
1100T	55,550	2,440	4.75	1.5	9.88	3.56	8	16	0.06	9.88	-	0.12	0.25	12, Gr 8	0.75	199	6.95	0.94
1110T	82,500	2,250	5.50	2	10.62	4.1	8.25	16	0.06	10.88	-	0.12	0.25	12, Gr 8	0.75	261	8.98	1.12
1120T	121,000	2,025	6.25	2.5	12.12	4.7	9.69	16	0.06	12.56	-	0.16	0.38	12, Gr 8	0.88	392	11.2	1.62
1130T	176,000	1,800	7	3	13.62	5.3	10.12	16	0.06	13.62	-	0.16	0.38	12, Gr 8	1	522	16.5	2
1140T	253,000	1,650	8	3.5	15.12	6	10.5	16	0.06	15.19	-	0.16	0.38	12, Gr 8	1.13	720	22.4	2.5

* Peak torque capacity is two times the published rating. Torque ratings for hubs with bushings differ from those shown, refer to Table 9, page C48.

** Consult *Martin* for higher speeds..

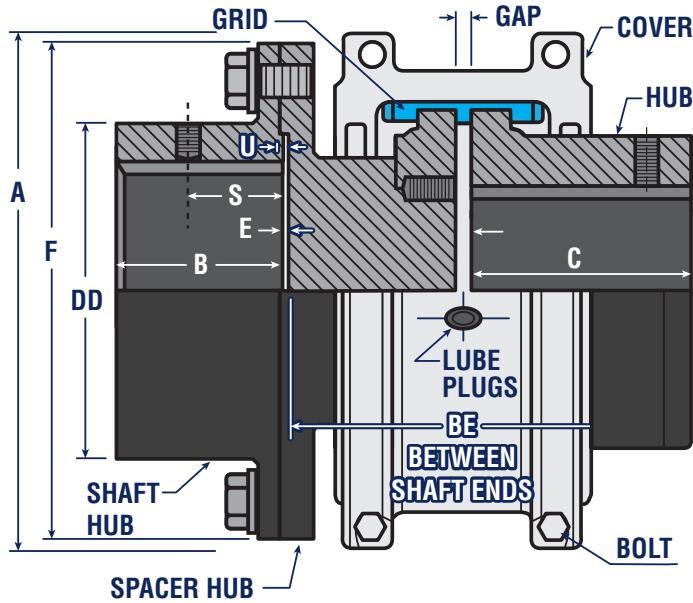
*** Minimum bore is the smallest bore to which a Rough Stock Bore (RSB) hub can be bored. Depending upon coupling size, RSB hubs may have only a blind centering hole or a through hole that will permit remachining of the hubs to the minimum bores specified.



Full Spacer Type T31 Application Shaft Separation – DBSE (Distance Between Shaft Ends)

DBSE	Spacer Hubs	1020T	1030T	1040T	1050T	1060T	1070T	1080T	1090T	1100T	1110T
3.500	Hub 1	1.625	1.625	1.625							
	Hub 2	1.625	1.625	1.625							
3.938	Hub 1	1.625	1.625	1.625							
	Hub 2	2.062	2.062	2.062							
4.250	Hub 1	1.625	1.625	1.625							
	Hub 2	2.375	2.375	2.375							
4.375	Hub 1	2.062	2.062	2.062	2.062						
	Hub 2	2.062	2.062	2.062	2.062						
4.688	Hub 1	2.062	2.062	2.062	2.062						
	Hub 2	2.375	2.375	2.375	2.375						
5.000	Hub 1	2.375	2.375	2.375	2.375	2.344	2.344				
	Hub 2	2.375	2.375	2.375	2.375	2.344	2.344				
5.219	Hub 1			1.625							
	Hub 2			3.344							
5.375	Hub 1		1.625	1.625							
	Hub 2		3.500	3.500							
5.510	Hub 1	2.631	2.631	2.631	2.631	2.600	2.600				
	Hub 2	2.631	2.631	2.631	2.631	2.600	2.600				
5.656	Hub 1		2.062	2.062	2.062						
	Hub 2		3.344	3.344	3.344						
5.813	Hub 1		2.062	2.062	2.062						
	Hub 2		3.500	3.500	3.500						
5.969	Hub 1		2.375	2.375	2.375						
	Hub 2		3.344	3.344	3.344						
6.125	Hub 1		2.375	2.375	2.375	2.344	2.344				
	Hub 2		3.500	3.500	3.500	3.469	3.469				
6.938	Hub 1	3.344	3.344	3.344	3.344	3.312					
	Hub 2	3.344	3.344	3.344	3.344	3.312					
7.000	Hub 1						3.344	3.344			
	Hub 2						3.344	3.344			
7.094	Hub 1			3.344	3.344		3.387	3.387	3.387		
	Hub 2			3.500	3.500		3.387	3.387	3.387		
7.250	Hub 1		3.500	3.500	3.500	3.469	3.469	3.469	3.469		
	Hub 2		3.500	3.500	3.500	3.469	3.469	3.469	3.469		
8.000	Hub 1									3.812	
	Hub 2									3.812	
8.593	Hub 1							3.469			
	Hub 2							4.812			
8.625	Hub 1					2.344	2.344				
	Hub 2					5.696	5.696				
8.875	Hub 1									3.812	
	Hub 2									4.688	
9.750	Hub 1					3.469	3.469	3.469	3.469	4.688	4.688
	Hub 2					5.969	5.969	5.969	5.969	4.688	4.688
9.938	Hub 1							4.812		4.733	4.733
	Hub 2							4.812		4.733	4.733
11.093	Hub 1							4.812			
	Hub 2							5.969			
12.250	Hub 1					5.969	5.969	5.969	5.969	5.938	
	Hub 2					5.969	5.969	5.969	5.969	5.938	
14.049	Hub 1										6.837
	Hub 2										6.837

Stock T35 Spacer Design



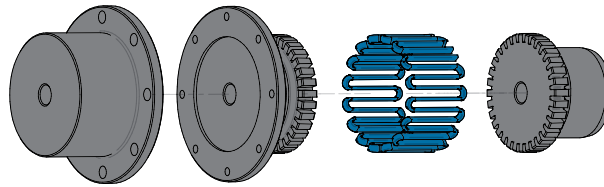
Martin Blue-Flex® Grid Coupling – T35 Style

Coupling Size	Torque Rating (in-lb)*	Allow Speed RPM**	Max Bore		Min Bore ***	A	B	BE		E	F	S	U	GAP	Flange Fasteners		Wt Without Bore & Min BE (lb)	Wt Added per inch of BE over Min (lb)	Lube Wt (lb)
			Shaft Hub	Hub				Min	Max						No. per Flange & Grade	Dia (in)			
1020T	460	3,600	1.38	1.13	0.5	3.82	1.38	1.78	4.03	0.03	3.38	1.08	0.08	0.19	4, GR 8	0.25	8.5	0.57	0.06
1030T	1,320	3,600	1.63	1.38	0.5	4.16	1.62	1.78	4.28	0.03	3.69	1.24	0.08	0.19	8, GR 8	0.25	11.5	0.87	0.09
1040T	2,200	3,600	2.13	1.63	0.5	4.5	2.12	1.78	4.28	0.03	4.44	1.08	0.08	0.19	8, GR 8	0.25	18.6	1.17	0.12
1050T	3,850	3,600	2.38	1.88	0.5	5.32	2.38	2.22	4.28	0.03	4.94	1.6	0.08	0.19	8, GR 8	0.31	28.2	1.58	0.15
1060T	6,050	3,600	2.88	2.13	0.75	5.82	2.88	2.44	6.53	0.06	5.69	1.7	0.11	0.19	8, GR 8	0.38	45.1	2.06	0.19
1070T	8,800	3,600	3.13	2.5	0.75	6.25	3.12	2.53	6.53	0.06	6	1.84	0.11	0.19	12, Gr 8	0.38	54.6	2.69	0.25
1080T	18,150	3,600	3.5	3	1.06	7.5	3.5	3.09	8.03	0.06	7	1.96	0.11	0.19	12, Gr 8	0.5	88.1	3.86	0.38
1090T	33,000	3,600	4	3.5	1.06	8.31	4	3.25	8.03	0.06	8.25	2.24	0.11	0.19	12, Gr 8	0.63	132	5.37	0.56
1100T	55,550	2,440	4.75	4	1.63	9.88	3.56	4.06	8.06	0.06	9.88	-	0.12	0.25	12, Gr 8	0.75	199	6.95	0.94
1110T	82,500	2,250	5.5	4.5	1.63	10.62	4.1	4.19	8.06	0.06	10.88	-	0.12	0.25	12, Gr 8	0.75	261	8.98	1.12
1120T	121,000	2,025	6.25	5	2.38	12.12	4.7	4.91	8.06	0.06	12.56	-	0.16	0.38	12, Gr 8	0.88	392	11.2	1.62
1130T	176,000	1,800	7	6	2.63	13.62	5.3	5.12	8.06	0.06	13.62	-	0.16	0.38	12, Gr 8	1	522	16.5	2
1140T	253,000	1,650	8	7.25	2.63	15.12	6	5.31	8.06	0.06	15.19	-	0.16	0.38	12, Gr 8	1.13	720	22.4	2.5

* Peak torque capacity is two times the published rating. Torque ratings for hubs with bushings differ from those shown, refer to Table 9, page C48.

** Consult Martin for higher speeds..

*** Minimum bore is the smallest bore to which a Rough Stock Bore (RSB) hub can be bored. Depending upon coupling size, RSB hubs may have only a blind centering hole or a through hole that will permit remachining of the hubs to the minimum bores specified.



Half Spacer Type T35 Application Shaft Separation – DBSE (Distance Between Shaft Ends)

DBSE	Spacer Hub 1 side only	Half Spacer type T35 Application Shaft Separation DBSE (Distance Between Shaft Ends)									
		1020T	1030T	1040T	1050T	1060T	1070T	1080T	1090T	1100T	1110T
1.781	Hub 1	1.625	1.625	1.625							
	Hub 2	STD	STD	STD							
2.219	Hub 1	2.062	2.062	2.062	2.062						
	Hub 2	STD	STD	STD	STD						
2.531	Hub 1	2.375	2.375	2.375	2.375	2.344	2.344				
	Hub 2	STD	STD	STD	STD	STD	STD				
3.500	Hub 1	3.344	3.344	3.344	3.344	3.312					
	Hub 2	STD	STD	STD	STD	STD					
3.531	Hub 1						3.344	3.344			
	Hub 2						STD	STD			
3.656	Hub 1			3.500	3.500	3.469	3.469	3.469	3.469		
	Hub 2			STD	STD	STD	STD	STD	STD		
4.062	Hub 1									3.812	
	Hub 2									STD	
4.938	Hub 1									4.688	4.688
	Hub 2									STD	STD
5.000	Hub 1							4.812		4.733	4.733
	Hub 2							STD		STD	STD
6.156	Hub 1					5.969	5.969	5.969	5.969		
	Hub 2					STD	STD	STD	STD		
6.188	Hub 1									5.938	
	Hub 2									STD	
7.090	Hub 1										6.837
	Hub 2										STD

Bore-To-Size Hubs



Blue-Flex® Bored-To-Size Hubs with Finished Bore, Keyway, and 2 Set Screw

Bore Size	Keyway (Inches)	Part Number by Coupling Size							
		1020T	1030T	1040T	1050T	1060T	1070T	1080T	1090T
Plain Bore		1020T-HUB	1030T-HUB	1040T-HUB	1050T-HUB	1060T-HUB	1070T-HUB	1080T-HUB	1090T-HUB
Inches									
1/2	1/8 x 1/16	1020T-HUB1/2	—	—	—	—	—	—	—
5/8	3/16 x 3/32	1020T-HUB5/8	1030T-HUB5/8	1040T-HUB5/8	—	—	—	—	—
3/4	3/16 x 3/32	1020T-HUB3/4	1030T-HUB3/4	1040T-HUB3/4	1050T-HUB3/4	1060T-HUB3/4	—	—	—
7/8	3/16 x 3/32	1020T-HUB7/8	1030T-HUB7/8	1040T-HUB7/8	1050T-HUB7/8	1060T-HUB7/8	—	—	—
15/16	1/4 x 1/8	1020T-HUB15/16	1030T-HUB15/16	1040T-HUB15/16	1050T-HUB15/16	1060T-HUB15/16	—	—	—
1	1/4 x 1/8	1020T-HUB1	1030T-HUB1	1040T-HUB1	1050T-HUB1	1060T-HUB1	1070T-HUB1	—	—
1 1/8	1/4 x 1/8	1020T-HUB1 1/8	1030T-HUB1 1/8	1040T-HUB1 1/8	1050T-HUB1 1/8	1060T-HUB1 1/8	1070T-HUB1 1/8	1080T-HUB1 1/8	—
1 3/16	1/4 x 1/8	—	1030T-HUB1 3/16	1040T-HUB1 3/16	1050T-HUB1 3/16	1060T-HUB1 3/16	1070T-HUB1 3/16	—	—
1 1/4	1/4 x 1/8	—	1030T-HUB1 1/4	1040T-HUB1 1/4	1050T-HUB1 1/4	1060T-HUB1 1/4	1070T-HUB1 1/4	1080T-HUB1 1/4	—
1 3/8	5/16 x 5/32	—	1030T-HUB1 3/8	1040T-HUB1 3/8	1050T-HUB1 3/8	1060T-HUB1 3/8	1070T-HUB1 3/8	1080T-HUB1 3/8	1090T-HUB1 3/8
1 7/16	3/8 x 3/16	—	—	1040T-HUB1 7/16	1050T-HUB1 7/16	1060T-HUB1 7/16	1070T-HUB1 7/16	1080T-HUB1 7/16	1090T-HUB1 7/16
1 1/2	3/8 x 3/16	—	—	1040T-HUB1 1/2	1050T-HUB1 1/2	1060T-HUB1 1/2	1070T-HUB1 1/2	1080T-HUB1 1/2	1090T-HUB1 1/2
1 9/16	3/8 x 3/16	—	—	1040T-HUB1 9/16	1050T-HUB1 9/16	1060T-HUB1 9/16	1070T-HUB1 9/16	1080T-HUB1 9/16	—
1 5/8	3/8 x 3/16	—	—	1040T-HUB1 5/8	1050T-HUB1 5/8	1060T-HUB1 5/8	1070T-HUB1 5/8	1080T-HUB1 5/8	1090T-HUB1 5/8
1 11/16	3/8 x 3/16	—	—	—	1050T-HUB1 11/16	1060T-HUB1 11/16	1070T-HUB1 11/16	1080T-HUB1 11/16	1090T-HUB1 11/16
1 3/4	3/8 x 3/16	—	—	—	1050T-HUB1 3/4	1060T-HUB1 3/4	1070T-HUB1 3/4	1080T-HUB1 3/4	1090T-HUB1 3/4
1 13/16	1/2 x 1/4	—	—	—	1050T-HUB1 13/16	1060T-HUB1 13/16	1070T-HUB1 13/16	1080T-HUB1 13/16	1090T-HUB1 13/16
1 7/8	1/2 x 1/4	—	—	—	1050T-HUB1 7/8	1060T-HUB1 7/8	1070T-HUB1 7/8	1080T-HUB1 7/8	1090T-HUB1 7/8
1 15/16	1/2 x 1/4	—	—	—	—	1060T-HUB1 15/16	1070T-HUB1 15/16	1080T-HUB1 15/16	1090T-HUB1 15/16
2	1/2 x 1/4	—	—	—	—	1060T-HUB2	1070T-HUB2	1080T-HUB2	1090T-HUB2
2 1/8	1/2 x 1/4	—	—	—	—	1060T-HUB2 1/8	1070T-HUB2 1/8	1080T-HUB2 1/8	1090T-HUB2 1/8
2 3/16	1/2 x 1/4	—	—	—	—	—	1070T-HUB2 3/16	1080T-HUB2 3/16	1090T-HUB2 3/16
2 1/4	1/2 x 1/4	—	—	—	—	—	1070T-HUB2 1/4	1080T-HUB2 1/4	1090T-HUB2 1/4
2 3/8	5/8 x 5/16	—	—	—	—	—	1070T-HUB2 3/8	1080T-HUB2 3/8	1090T-HUB2 3/8
2 7/16	5/8 x 5/16	—	—	—	—	—	1070T-HUB2 7/16	1080T-HUB2 7/16	1090T-HUB2 7/16
2 1/2	5/8 x 5/16	—	—	—	—	—	1070T-HUB2 1/2	1080T-HUB2 1/2	1090T-HUB2 1/2
2 5/8	5/8 x 5/16	—	—	—	—	—	—	1080T-HUB2 5/8	1090T-HUB2 5/8
2 11/16	5/8 x 5/16	—	—	—	—	—	—	1080T-HUB2 11/16	1090T-HUB2 11/16
2 3/4	5/8 x 5/16	—	—	—	—	—	—	1080T-HUB2 3/4	1090T-HUB2 3/4
2 7/8	3/4 x 3/8	—	—	—	—	—	—	1080T-HUB2 7/8	1090T-HUB2 7/8
2 15/16	3/4 x 3/8	—	—	—	—	—	—	1080T-HUB2 15/16	1090T-HUB2 15/16
3	3/4 x 3/8	—	—	—	—	—	—	1080T-HUB3	1090T-HUB3
3 1/8	3/4 x 3/8	—	—	—	—	—	—	—	1090T-HUB3 1/8
3 1/4	3/4 x 3/8	—	—	—	—	—	—	—	1090T-HUB3 1/4
3 3/8	7/8 x 7/16	—	—	—	—	—	—	—	1090T-HUB3 3/8
3 7/16	7/8 x 7/16	—	—	—	—	—	—	—	1090T-HUB3 7/16
3 1/2	7/8 x 7/16	—	—	—	—	—	—	—	1090T-HUB3 1/2
Taper Bushed		—	1030T-HUB1108	1040T-HUB1108	1050T-HUB1215	1060T-HUB1615	1070T-HUB2012	1080T-HUB2525	1090T-HUB3030
Metric									
14	5 x 2.3	1020T-HUB14MM	—	—	—	—	—	—	—
15	5 x 2.3	1020T-HUB15MM	—	—	—	—	—	—	—
16	5 x 2.3	1020T-HUB16MM	—	—	—	—	—	—	—
19	6 x 2.8	1020T-HUB19MM	1030T-HUB19MM	—	—	—	—	—	—
20	6 x 2.8	1020T-HUB20MM	1030T-HUB20MM	—	—	—	—	—	—
22	6 x 2.8	1020T-HUB22MM	1030T-HUB22MM	—	—	—	—	—	—
24	8 x 3.3	1020T-HUB24MM	1030T-HUB24MM	1040T-HUB24MM	—	—	—	—	—
25	8 x 3.3	1020T-HUB25MM	1030T-HUB25MM	1040T-HUB25MM	—	—	—	—	—
28	8 x 3.3	—	1030T-HUB28MM	1040T-HUB28MM	1050T-HUB28MM	—	—	—	—
30	8 x 3.3	—	1030T-HUB30MM	1040T-HUB30MM	1050T-HUB30MM	—	—	—	—
32	10 x 3.3	—	1030T-HUB32MM	1040T-HUB32MM	1050T-HUB32MM	1060T-HUB32MM	—	—	—
35	10 x 3.3	—	1030T-HUB35MM	1040T-HUB35MM	1050T-HUB35MM	1060T-HUB35MM	1070T-HUB35MM	—	—
38	10 x 3.3	—	—	1040T-HUB38MM	1050T-HUB38MM	1060T-HUB38MM	1070T-HUB38MM	1080T-HUB38MM	—
40	12 x 3.3	—	—	—	—	1060T-HUB40MM	1070T-HUB40MM	—	—
42	12 x 3.3	—	—	1040T-HUB42MM	1050T-HUB42MM	1060T-HUB42MM	1070T-HUB42MM	1080T-HUB42MM	1090T-HUB42MM
45	14 x 3.8	—	—	—	—	1060T-HUB45MM	1070T-HUB45MM	—	—
48	14 x 3.8	—	—	—	1050T-HUB48MM	1060T-HUB48MM	1070T-HUB48MM	1080T-HUB48MM	1090T-HUB48MM
50	14 x 3.8	—	—	—	—	1060T-HUB50MM	—	—	—
55	16 x 4.3	—	—	—	—	1060T-HUB55MM	1070T-HUB55MM	1080T-HUB55MM	1090T-HUB55MM
60	18 x 4.4	—	—	—	—	—	—	1080T-HUB60MM	—
65	18 x 4.4	—	—	—	—	—	—	—	1090T-HUB65MM
70	20 x 4.9	—	—	—	—	—	—	1080T-HUB70MM	1090T-HUB70MM
80	22 x 5.4	—	—	—	—	—	—	1080T-HUB80MM	1090T-HUB80MM
85	22 x 5.4	—	—	—	—	—	—	—	1090T-HUB85MM



Spacer Hubs



Shaft Hubs
Plain Bore and Finished Bore with Keyway,
and 2 Set Screws Taper Bushed Available

Spacer Length	Part Number by Coupling Size									
	1020T	1030T	1040T	1050T	1060T	1070T	1080T	1090T	1100T	1110T
1.625	1020T-CL1.6250	1030T-CL1.6250	1040T-CL1.6250							
2.0620	1020T-CL2.0620	1030T-CL2.0620	1040T-CL2.0620	1050T-CL2.0620						
2.3440										
2.3750	1020T-CL2.3750	1030T-CL2.3750	1040T-CL2.3750	1050T-CL2.3750	1060T-CL2.3440	1070T-CL2.3440	1080T-CL3.3440			
2.6000					1060T-CL2.6000	1070T-CL2.6000				
2.6310	1020T-CL2.6310	1030T-CL2.6310	1040T-CL2.6310	1050T-CL2.6310						
3.3120					1060T-CL3.3120					
3.3440	1020T-CL3.3440	1030T-CL3.3440	1040T-CL3.3440	1050T-CL3.3440		1070T-CL3.3440				
3.3870						1070T-CL3.3870	1080T-CL3.3870	1090T-CL3.3870		
3.4690					1060T-CL3.4690	1070T-CL3.4690	1080T-CL3.4690	1090T-CL3.4690		
3.5000		1030T-CL3.5000	1040T-CL3.5000	1050T-CL3.5000						
3.8120										1100T-CL3.8120
4.6880										1100T-CL4.6880
4.7330										1100T-CL4.7330
4.8120							1080T-CL4.8120			1110T-CL4.7330
5.2620										1100T-CL5.2620
5.3250							1080T-CL5.3250	1090T-CL5.3250		
5.9375										1100T-CL5.9375
5.9690					1060T-CL5.9690	1070T-CL5.9690	1080T-CL5.9690	1090T-CL5.9690		
6.8370										1110T-CL6.8370
6.9000								1090T-CL6.9000		

Blue-Flex® Shaft Hubs with Plain Bore and Finished Bore (with Keyway, and 2 Set Screws)

Bore Size	Keyway (Inches)	Part Number by Coupling Size									
		1020T	1030T	1040T	1050T	1060T	1070T	1080T	1090T	1100T	1110T
Plain Bore		1020T-SH	1030T-SH	1040T-SH	1050T-SH	1060T-SH	1070T-SH	1080T-SH	1090T-SH	1100T-SH	1110T-SH
1/2	1/8 x 1/16	1020T-SH1/2									
5/8	3/16 x 3/32	1020T-SH5/8	1030T-SH5/8								
3/4	3/16 x 3/32	1020T-SH3/4	1030T-SH3/4	1040T-SH3/4							
7/8	3/16 x 3/32	1020T-SH7/8	1030T-SH7/8	1040T-SH7/8							
1	1/4 x 1/8	1020T-SH1	1030T-SH1	1040T-SH1	1050T-SH1						
1 1/8	1/4 x 1/8	1020T-SH1 1/8	1030T-SH1 1/8	1040T-SH1 1/8	1050T-SH1 1/8	1060T-SH1 1/8					
1 1/4	1/4 x 1/8	1020T-SH1 1/4	1030T-SH1 1/4	1040T-SH1 1/4	1050T-SH1 1/4	1060T-SH1 1/4					
1 3/8	5/16 x 5/32	1020T-SH1 3/8	1030T-SH1 3/8	1040T-SH1 3/8	1050T-SH1 3/8	1060T-SH1 3/8	1070T-SH1 3/8				
1 1/2	3/8 x 3/16		1030T-SH1 1/2	1040T-SH1 1/2	1050T-SH1 1/2	1060T-SH1 1/2	1070T-SH1 1/2				
1 5/8	3/8 x 3/16		1030T-SH1 5/8	1040T-SH1 5/8	1050T-SH1 5/8	1060T-SH1 5/8	1070T-SH1 5/8	1080T-SH1 5/8		1100T-SH1 5/8	
1 3/4	3/8 x 3/16			1040T-SH1 3/4	1050T-SH1 3/4	1060T-SH1 3/4	1070T-SH1 3/4	1080T-SH1 3/4			
1 7/8	1/2 x 1/4			1040T-SH1 7/8	1050T-SH1 7/8	1060T-SH1 7/8	1070T-SH1 7/8	1080T-SH1 7/8	1090T-SH1 7/8		
2	1/2 x 1/4			1040T-SH2	1050T-SH2	1060T-SH2	1070T-SH2	1080T-SH2	1090T-SH2		
2 1/8	1/2 x 1/4			1040T-SH2 1/8	1050T-SH2 1/8	1060T-SH2 1/8	1070T-SH2 1/8	1080T-SH2 1/8	1090T-SH2 1/8		
2 1/4	1/2 x 1/4				1050T-SH2 1/4	1060T-SH2 1/4	1070T-SH2 1/4	1080T-SH2 1/4	1090T-SH2 1/4		
2 3/8	5/8 x 5/16				1050T-SH2 3/8	1060T-SH2 3/8	1070T-SH2 3/8	1080T-SH2 3/8	1090T-SH2 3/8		
2 1/2	5/8 x 5/16					1060T-SH2 1/2	1070T-SH2 1/2	1080T-SH2 1/2	1090T-SH2 1/2		
2 5/8	5/8 x 5/16					1060T-SH2 5/8	1070T-SH2 5/8	1080T-SH2 5/8	1090T-SH2 5/8		
2 7/8	3/4 x 3/8					1060T-SH2 7/8	1070T-SH2 7/8	1080T-SH2 7/8	1090T-SH2 7/8		
3	3/4 x 3/8						1070T-SH3	1080T-SH3	1090T-SH3	1100T-SH3	1110T-SH3
3 1/8	3/4 x 3/8							1080T-SH3 1/8	1090T-SH3 1/8		
3 1/4	3/4 x 3/8							1080T-SH3 1/4	1090T-SH3 1/4		
3 3/8	7/8 x 7/16							1080T-SH3 3/8	1090T-SH3 3/8	1100T-SH3 3/8	
3 1/2	7/8 x 7/16								1090T-SH3 1/2		
3 5/8	7/8 x 7/16								1090T-SH3 5/8		
3 7/8	1 x 1/2								1090T-SH3 7/8		
4	1 x 1/2								1090T-SH4	1100T-SH4	

Components



Plain Bore Hubs
1-Day Rebore Available



Bored-To-Size Hubs
Finished Bore, Keyway, and 2 Set Screws
Taper Bushed Available



Blue-Flex® Grid

Coupling Size	Part Number
1020T	1020T-GRID
1030T	1030T-GRID
1040T	1040T-GRID
1050T	1050T-GRID
1060T	1060T-GRID
1070T	1070T-GRID
1080T	1080T-GRID
1090T	1090T-GRID
1100T	1100T-GRID
1110T	1110T-GRID
1120T	1120T-GRID
1130T	1130T-GRID
1140T	1140T-GRID
1150T	1150T-GRID
1160T	1160T-GRID
1170T	1170T-GRID
1180T	1180T-GRID
1190T	1190T-GRID
1200T	1200T-GRID



T10 Cover



T20 Cover



Fastener Sets



Seal & Gasket Kits

Blue-Flex® Parts and Kits

Coupling Size	T10 Cover Horizontal Split				T20 Cover Vertical Split for Higher RPM			
	Cover (Cover, Seals, Gaskets & Fasteners)	Cover Fastener Set	Seal Kit (Seal & Gasket)	Cover Grid Assemblies (Cover, Grid, Seals, Gaskets & Fasteners) *Includes Grease	Cover (Cover, Seals, Gaskets & Fasteners)	Cover Fastener Set	Seal Kit (Seal & Gasket)	Cover Grid Assemblies (Cover, Grid, Seals, Gaskets & Fasteners) *Includes Grease
1020T	1020T10-COV	1020T10-FAS	1020T10-SEAL	1020T10-SUBASY*	1020T20-COV	1020T20-FAS	1020T20-SEAL	1020T20-SUBASY*
1030T	1030T10-COV	1030T10-FAS	1030T10-SEAL	1030T10-SUBASY*	1030T20-COV	1030T20-FAS	1030T20-SEAL	1030T20-SUBASY*
1040T	1040T10-COV	1040T10-FAS	1040T10-SEAL	1040T10-SUBASY*	1040T20-COV	1040T20-FAS	1040T20-SEAL	1040T20-SUBASY*
1050T	1050T10-COV	1050T10-FAS	1050T10-SEAL	1050T10-SUBASY*	1050T20-COV	1050T20-FAS	1050T20-SEAL	1050T20-SUBASY*
1060T	1060T10-COV	1060T10-FAS	1060T10-SEAL	1060T10-SUBASY*	1060T20-COV	1060T20-FAS	1060T20-SEAL	1060T20-SUBASY*
1070T	1070T10-COV	1070T10-FAS	1070T10-SEAL	1070T10-SUBASY*	1070T20-COV	1070T20-FAS	1070T20-SEAL	1070T20-SUBASY*
1080T	1080T10-COV	1080T10-FAS	1080T10-SEAL	1080T10-SUBASY*	1080T20-COV	1080T20-FAS	1080T20-SEAL	1080T20-SUBASY*
1090T	1090T10-COV	1090T10-FAS	1090T10-SEAL	1090T10-SUBASY*	1090T20-COV	1090T20-FAS	1090T20-SEAL	1090T20-SUBASY*
1100T	1100T10-COV	1100T10-FAS	1100T10-SEAL	1100T10-SUBASY	1100T20-COV	1100T20-FAS	1100T20-SEAL	1100T20-SUBASY
1110T	1110T10-COV	1110T10-FAS	1110T10-SEAL	1110T10-SUBASY	1110T20-COV	1120T20-FAS	1110T20-SEAL	1110T20-SUBASY
1120T	1120T10-COV	1120T10-FAS	1120T10-SEAL	1120T10-SUBASY	1120T20-COV	1120T20-FAS	1120T20-SEAL	1120T20-SUBASY
1130T	1130T10-COV	1130T10-FAS	1130T10-SEAL	1130T10-SUBASY	1130T20-COV	1130T20-FAS	1130T20-SEAL	1130T20-SUBASY
1140T	1140T10-COV	1140T10-FAS	1140T10-SEAL	1140T10-SUBASY	1140T20-COV	1140T20-FAS	1140T20-SEAL	1140T20-SUBASY
1150T	1150T10-COV	1150T10-FAS	1150T10-SEAL	1150T10-SUBASY	1150T20-COV	1150T20-FAS	1150T20-SEAL	1150T20-SUBASY
1160T	1160T10-COV	1160T10-FAS	1160T10-SEAL	1160T10-SUBASY	1160T20-COV	1160T20-FAS	1160T20-SEAL	1160T20-SUBASY
1170T	1170T10-COV	1170T10-FAS	1170T10-SEAL	1170T10-SUBASY	1170T20-COV	1170T20-FAS	1170T20-SEAL	1170T20-SUBASY
1180T	1180T10-COV	1180T10-FAS	1180T10-SEAL	1180T10-SUBASY	1180T20-COV	1180T20-FAS	1180T20-SEAL	1180T20-SUBASY
1190T	1190T10-COV	1190T10-FAS	1190T10-SEAL	1190T10-SUBASY	1190T20-COV	1190T20-FAS	1190T20-SEAL	1190T20-SUBASY
1200T	1200T10-COV	1200T10-FAS	1200T10-SEAL	1200T10-SUBASY	1200T20-COV	1200T20-FAS	1200T20-SEAL	1200T20-SUBASY

Note: All Covers include Seal Kits

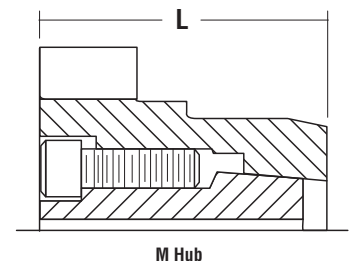
Table 8 – Type T Hub Bore Ranges with Square & Rectangular Keys

Size	Inches																Millimeters			
	Min Bore	For One Square Key				For One Rectangular Key						For Two Square Keys			For Two Rectangular Keys			Min Bore	Max Bore	
		Max Bore	Y=X		Max Bore	Y=X		Max Bore	Y=W/2		Max Bore	Y=X		Max Bore	Y=X		Std Bore Fits per Table 16		Int Fit per Table 16 w/Setscrew Over Keyway	
			W	X		W	X		W	X		W	X		W	X				
1020T	0.500	1.125	0.250	0.125	1.187	0.250	0.093	1.250	0.250	0.062	-	-	-	-	-	-	13	28	24	
1030T	0.500	1.375	0.312	0.156	1.437	0.375	0.125	1.562	0.375	0.062	-	-	-	-	-	-	13	35	30	
1040T	0.500	1.625	0.375	0.187	1.750	0.375	0.125	1.750	0.375	0.062	-	-	-	-	-	-	13	43	38	
1050T	0.500	1.875	0.500	0.250	2.000	0.500	0.187	2.125	0.500	0.125	-	-	-	-	-	-	13	50	45	
1060T	0.750	2.125	0.500	0.250	2.250	0.500	0.187	2.375	0.625	0.125	-	-	-	-	-	-	20	56	50	
1070T	0.750	2.500	0.625	0.312	2.687	0.625	0.218	2.875	0.750	0.125	-	-	-	-	-	-	20	67	60	
1080T	1.062	3.000	0.750	0.375	3.250	0.750	0.250	3.375	0.875	0.187	-	-	-	-	-	-	27	80	75	
1090T	1.062	3.500	0.875	0.437	3.750	0.875	0.312	3.875	1.000	0.250	-	-	-	-	-	-	27	95	90	
1100T	1.625	4.000	1.000	0.500	4.250	1.000	0.375	4.500	1.000	0.250	-	-	-	-	-	-	42	110	100	
1110T	1.625	4.500	1.000	0.500	4.625	1.250	0.437	5.000	1.250	0.250	-	-	-	-	-	-	42	120	110	
1120T	2.375	5.000	1.250	0.625	5.375	1.250	0.437	5.750	1.500	0.250	-	-	-	-	-	-	61	140	120	
1130T	2.625	6.000	1.500	0.750	6.500	1.500	0.500	6.500	1.500	0.250	-	-	-	-	-	-	67	170	150	
1140T	2.625	7.000	1.750	0.875	7.250	1.750	0.750	7.750	2.000	0.500	-	-	-	-	-	-	67	200	180	
1150T	4.250	7.500	1.750	0.875	8.000	2.000	0.750	-	-	-	-	-	-	-	-	-	108	215	190	
1160T	4.750	8.500	2.000	1.000	9.000	2.000	0.750	-	-	-	-	-	-	-	-	-	121	240	215	
1170T	5.250	9.750	2.500	1.250	10.000	2.500	0.875	-	-	-	10.750	1.750	0.875	11.000	1.750	0.750	134	280	240	
1180T	6.000	10.750	2.500	1.250	11.000	2.500	0.875	-	-	-	12.000	1.750	0.875	12.250	2.000	0.750	153	300	260	
1190T	6.000	11.750	3.000	1.500	12.000	3.000	1.000	-	-	-	13.000	2.000	1.000	13.250	2.000	0.750	153	336	290	
1200T	7.000	12.750	3.000	1.500	13.000	3.000	1.000	-	-	-	14.000	2.500	1.250	14.250	2.500	0.875	178	360	320	

Y = Shaft keyway depth; X = Hub keyway depth; W = Keyway width
 • Maximum bores using standard recommended keys on Table 13.
 ◊ Consult *Martin*.

Table 9 – Taper Bushings for Type T Hubs

Coupling Size	M Hub			
	Taper Bushing			L (in)
	Catalog Part No.	Bore Range (in)	Torque (lb-in)	
1020T	-	-	-	-
1030T	1108	0.500 to 1.125	1,300	1.62
1040T	1108	0.500 to 1.125	1,300	1.62
1050T	1215	0.500 to 1.250	3,550	1.88
1060T	1615	0.500 to 1.625	4,300	2.12
1070T	2012	0.500 to 2.000	7,150	2.12
1080T	2525	0.750 to 2.500	11,300	2.62
1090T	3030	0.938 to 3.000	24,000	3.12
1100T	3030	0.938 to 3.000	24,000	3.50
1110T	3535	1.188 to 3.500	44,800	3.62
1120T	4040	1.438 to 4.000	77,300	4.38
1130T	4545	1.938 to 4.500	110,000	4.62
1140T	5050	2.438 to 5.000	126,000	5.12
1150T	5050	2.438 to 5.000	126,000	7.20
1160T	5050	2.438 to 5.000	126,000	7.80
1170T	7060	3.938 to 7.000	416,000	8.50
1180T	8065	4.438 to 8.000	456,000	9.40
1190T	8065	4.438 to 8.000	456,000	10.20
1200T	10085	7.000 to 10.000	869,000	11.00



Bushings require shaft keyways as calculated in Table 13.
 Taper bores not recommended for shock load, reverse load, or 1.75+ coupling service factor applications.

Table 10 – WR² Values (lb-in²)

WR² values are based on hubs with no bore; seals, lube plugs and gaskets are not considered.

Coupling Size	Coupling Type					
	T10	T20	T31		T35	
			WR ² (Min DBSE)	WR ² Added per inch of DBSE	WR ² (Min DBSE)	WR ² Added per inch of DBSE
1020T	4.83	5.32	9.8	0.18	7.3	0.18
1030T	7.61	7.99	15.3	0.42	11.5	0.42
1040T	11.19	11.99	31.8	0.76	21.5	0.76
1050T	24.85	25.76	62	1.4	43.4	1.4
1060T	40.66	41.16	132	2.38	86.4	2.38
1070T	63.18	61.68	175	4.06	119	4.06
1080T	154	148	396	8.37	275	8.37
1090T	269	272	805	16.2	537	16.2
1100T	609	608	1756	27.2	1183	27.2
1110T	923	930	2726	45.4	1825	45.4
1120T	1755	1611	5341	70.9	3548	70.9
1130T	3378	3568	8563	153	5970	153
1140T	6306	6431	14871	283	10588	283
1150T	11922	11243	–	–	–	–
1160T	19876	20597	–	–	–	–
1170T	35621	35625	–	–	–	–
1180T	62553	63343	–	–	–	–
1190T	89359	90487	–	–	–	–
1200T	148676	150553	–	–	–	–

Table 11 – Type T Coupling Puller Bolt Holes (in)

Coupling Size	Coupling Type	
	B.C.	Tap Size (UNC)
1020T	1.531	#6-32 x 0.38
1030T	1.875	#6-32 x 0.38
1040T	2.125	#10-24 x 0.38
1050T	2.500	#10-24 x 0.38
1060T	2.875	0.250-20 x 0.38
1070T	3.312	0.250-20 x 0.38
1080T	3.937	0.250-20 x 0.38
1090T	4.562	0.3125-18 x 0.44
1100T	5.250	0.375-16 x 0.50
1110T	5.875	0.4375-14 x 0.62
1120T	6.625	0.4375-14 x 0.62
1130T	7.750	0.625-11 x 0.82
1140T	9.125	0.625-11 x 0.82
1150T	10.375	0.750-10 x 0.94
1160T	11.750	0.875-9 x 1.06
1170T	13.250	1.125-7 x 1.25
1180T	14.875	1.250-7 x 1.50
1190T	16.250	1.500-6 x 1.75
1200T	17.937	1.500-6 x 1.75

Table 12 – Reduced Max Bores Interference Fit & Setscrew Over Keyway — All Type M Couplings

Size	Bore
1020T	1.000
1030T	1.250
1040T	1.375
1050T	1.750
1060T	1.875
1070T	2.250
1080T	2.750
1090T	3.250
1100T	3.500
1110T	4.000

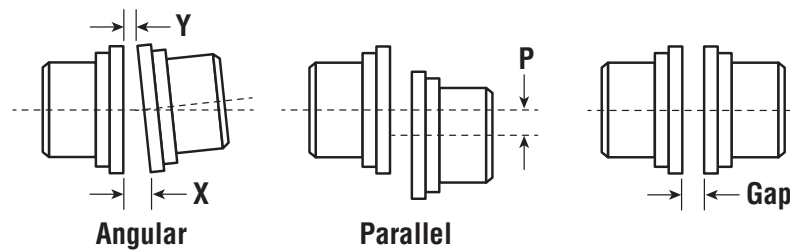
Size	Bore
1120T	4.500
1130T	5.500
1140T	6.500
1150T	7.000
1160T	8.000
1170T	9.000
1180T	9.750
1190T	10.750
1200T	11.750

Table 13 – Misalignment Capability (in)

Maximum life and minimum maintenance for the coupling and connected machinery will result if couplings are accurately aligned. Coupling life expectancy between initial alignment and maximum operating limits is a function of load, speed and lubrication. For applications requiring greater misalignment, refer application details to *Martin*.

Angular misalignment is expressed in degrees and as the difference between the value of X minus Y, as illustrated.

Parallel misalignment is the distance P between shaft center lines as shown.



Coupling Size	Recommended Installation Maximum		Maximum Operating		Normal GAP +/- 10%	
	Parallel Offset -P	Angular (1/16°) X Minus Y	Parallel Offset -P	Angular (1/16°) X Minus Y	T10, T20, T35	T31
	T10, T20, T31, T35		T10, T20, T31, T35			
1020T	0.006	0.002	0.012	0.009	0.125	0.188
1030T	0.006	0.003	0.012	0.010	0.125	0.188
1040T	0.006	0.003	0.012	0.013	0.125	0.188
1050T	0.008	0.004	0.016	0.016	0.125	0.188
1060T	0.008	0.004	0.016	0.018	0.125	0.188
1070T	0.008	0.005	0.016	0.020	0.125	0.188
1080T	0.008	0.006	0.016	0.024	0.125	0.188
1090T	0.008	0.007	0.016	0.028	0.125	0.188
1100T	0.010	0.008	0.020	0.032	0.188	0.250
1110T	0.010	0.009	0.020	0.035	0.188	0.250
1120T	0.011	0.010	0.022	0.040	0.250	0.375
1130T	0.011	0.012	0.022	0.047	0.250	0.375
1140T	0.011	0.013	0.022	0.053	0.250	0.375
1150T	0.012	0.015	0.024	0.061	0.250	0.375
1160T	0.012	0.017	0.024	0.070	0.250	0.375
1170T	0.012	0.020	0.024	0.079	0.250	0.375
1180T	0.015	0.022	0.030	0.089	0.250	0.375
1190T	0.015	0.024	0.030	0.096	0.250	0.375
1200T	0.015	0.027	0.030	0.107	0.250	0.375

Table 14 – Recommended Commercial Keys for Bores with One Key (in/mm)

Inches (Per ANSI B17.1 Standard)											
Shaft Dia.		Key	Shaft Dia.		Key	Shaft Dia.		Key	Shaft Dia.		Key
Over	Through		Over	Through		Over	Through		Over	Through	
0.438	0.562	0.125 x 0.125	1.750	2.250	0.500 x 0.500	4.500	5.500	1.250 x 1.250	11.000	13.000	3.000 x 2.000
0.562	0.875	0.188 x 0.188	2.250	2.750	0.625 x 0.625	5.500	6.500	1.500 x 1.500	13.000	15.000	3.500 x 2.500
0.875	1.250	0.250 x 0.250	2.750	3.250	0.750 x 0.750	6.500	7.500	1.750 x 1.500	15.000	18.000	4.000 x 3.000
1.250	1.375	0.312 x 0.312	3.250	3.750	0.875 x 0.875	7.500	9.000	2.000 x 1.500	18.000	20.000	5.000 x 3.500
1.375	1.750	0.375 x 0.375	3.750	4.500	1.000 x 1.000	9.000	11.000	2.500 x 1.750	–	–	–
Millimeters (Per ISO R773 Standard)											
6	8	2 x 2	38	44	12 x 8	95	110	28 x 16	260	290	63 x 32
8	10	3 x 3	44	50	14 x 9	110	130	32 x 18	290	330	70 x 36
10	12	4 x 4	50	58	16 x 10	130	150	36 x 20	330	380	80 x 40
12	17	5 x 5	58	65	18 x 11	150	170	40 x 22	380	440	90 x 45
17	22	6 x 6	65	75	20 x 12	170	200	45 x 25	440	500	100 x 50
22	30	8 x 7	75	85	22 x 14	200	230	50 x 28	–	–	–
30	38	10 x 8	85	95	25 x 14	230	260	56 x 32	–	–	–

Table 15 – Standard Bore Fits — Unless Otherwise Specified

Model	Coupling Size	Coupling Type	Bore Fit
Blue-Flex® Grid Couplings	1020 - 1090	T10, T20	Clearance
	1100 and Larger	T10, T20	Interference

Table 16 – Recommended Bores for Steel Hubs (in)

Shaft Dia.	Clearance Fit		Interference Fit		Shaft Dia.	Clearance Fit		Interference Fit		Shaft Dia.	Interference Fit				
	Hub Bore	Clearance	Hub Bore	Interference		Hub Bore	Clearance	Hub Bore	Interference		Hub Bore	Interference			
+.0000 -.0005	+.0010 -.0000	.0000 .0015	+.0005 -.0000	.0000 .0010	+.0000 -.0010	+.0015 -.0000	.0000 .0025	+.0010 -.0000	.0005 .0025	0000 -.0010	+.0015 -.0000	.0015 .0040			
0.5000	0.5000	↓	0.4990	↓	3.0625	3.0625	↓	3.0600	↓	6.7500	6.7460	↓			
0.5625	0.5625		0.5615		3.1250	3.1250		3.1225		7.0000	6.9960				
0.6250	0.6250		0.6240		3.1875	3.1875		3.1850		+.0000	+.0020	.0020			
0.6875	0.6875		0.6865		3.2500	3.2500		3.2475		-.0010	-.0000	.0050			
0.7500	0.7500		0.7490		3.3125	3.3125		3.3100		7.250	7.2450	↓			
0.8125	0.8125		0.8115		3.3750	3.3750		3.3725		7.500	7.4950				
0.8750	0.8750		0.8740		3.4375	3.4375		3.4350		7.750	7.7450	↓			
0.9375	0.9375		0.9365		3.5000	3.5000		3.4975		8.000	7.9950				
1.0000	1.0000		0.9990		3.5625	3.5625		3.5600		8.250	8.2445	.0025			
1.0625	1.0625		1.0615		3.6250	3.6250		3.6225		8.500	8.4945	.0055			
1.1250	1.1250		1.1240		3.6875	3.6875		3.6850		8.750	8.7445	↓			
1.1875	1.1875		1.1865		3.7500	3.7500		3.7475		9.000	8.9945				
1.2500	1.2500		1.2490		3.8125	3.8125		3.8100		9.250	9.2440	.0030			
1.3125	1.3125		1.3115		3.8750	3.8750		3.8725		9.500	9.4940	.0060			
1.3750	1.3750		1.3740		3.9375	3.9375		3.9350		9.750	9.7440	↓			
1.4375	1.4375	1.4365	4.0000	4.0000	3.9975	10.000	9.9940								
1.5000	1.5000	1.4990	+.0000	+.0015	.0000	+.0015	.0010	.0035	.0035						
+.0000 -.0010	+.0010 -.0000	.0000 .0020	+.0005 -.0000	.0000 .0015	-.0010 -.0000	+.0015 -.0000	.0005 .0035	.0005 .0035	.0065						
1.5625	1.5625	↓	1.5610	↓	4.0625	4.0625	↓	4.0590	↓	10.250	10.2435	↓			
1.6250	1.6250		1.6235		4.1250	4.1250		4.1215		10.500	10.4935				
1.6875	1.6875		1.6860		4.1875	4.1875		4.1840		10.750	10.7435	↓			
1.7500	1.7500		1.7485		4.2500	4.2500		4.2465		11.000	10.9935				
1.8125	1.8125		1.8110		4.3125	4.3125		4.3090		11.250	11.2430	.0040			
1.8750	1.8750		1.8735		4.3750	4.3750		4.3715		11.500	11.4930	.0070			
1.9375	1.9375		1.9360		4.4375	4.4375		4.4340		11.750	11.7430	↓			
2.0000	2.0000		1.9985		4.5000	4.5000		4.4965		12.000	11.9930				
+.0000 -.0010	+.0015 -.0000		.0000 .0025		+.0005 -.0000	.0000 .0015		4.5625		4.5625	4.5590	4.5590	.0045		
2.0625	2.0625		↓		2.0610	↓		4.6250		4.6250	4.6215	4.6215	.0075		
2.1250	2.1250				2.1235			4.6875		4.6875	4.6840	13.000	12.9925		
2.1875	2.1875				2.1860			4.7500		4.7500	4.7465	13.500	13.4920	.0050	
+.0000 -.0010	+.0015 -.0000				.0000 .0025			+.0010 -.0000		.0000 .0020	4.8125	4.8125	4.8090	4.8090	.0080
2.2500	2.2500				↓			2.2480		↓	4.8750	4.8750	4.8715	4.8715	.0055
3.3125	2.3125							2.3105			4.9375	4.9375	4.9340	14.000	13.9920
2.3750	2.3750	2.3730		5.0000			5.0000	4.9965	14.500		14.4915	.0085			
2.4375	2.4375	2.4355		5.0625			5.0625	5.0585	15.000		14.9915	↓			
2.5000	2.5000	2.4980		5.1250			5.1250	5.1210	+.000		+.0025		.0055		
2.5625	2.5625	2.5605		5.1875			5.1875	5.1835	-.001		-.0000	.0090			
2.6250	2.6250	2.6230		5.2500			5.2500	5.2460	15.500		15.4910	↓			
2.6875	2.6875	2.6855		5.3125			5.3125	5.3085	16.000		15.9910				
2.7500	2.7500	2.7480		5.3750			5.3750	5.3710	16.500		16.4905	.0060			
2.8125	2.8125	2.8105		5.4375			5.4375	5.4335	17.000		16.9905	.0095			
2.8750	2.8750	2.8730		5.5000			5.5000	5.4960	17.500		17.4895	↓			
2.9375	2.9375	2.9355	5.5625	5.5625		5.5585	18.000	17.9895							
3.0000	3.0000	2.9980	5.6250	5.6250		5.6210	18.500	18.4890	.0105						
			5.6875	5.6875		5.6835	19.000	18.9890	.0075						
			5.7500	5.7500		5.7460	19.500	19.4880	.0110						
			5.8125	5.8125	5.8085	20.000	19.9880	.0085							
			5.8750	5.8750	5.8710			.0120							
			5.9375	5.9375	5.9335										
			6.0000	6.0000	5.9960										
			6.2500	6.2500	6.2460										
			6.5000	6.5000	6.4960										

For shaft diameters larger than 20.000", use an average interference fit of 0.0005" per inch of shaft diameter within the following bore tolerances:

- + .003, - .000 for over 20 to 30 dia. incl.
- + .004, - .000 for over 30 to 40 dia. incl.

Tolerances and fits comply with, or are within, AGMA 9002 standard (Class 1 clearance fit).

Table 17 – Recommended Bores for Metric Shafts per ISO/R775–1969 (ANSI/AGMA 9112)

	Shaft Diameter	Clearance Fit		Transitional Fit		Interference Fit	
		Hub Bore	Fit*	Hub Bore	Fit*	Hub Bore	Fit*
MM	j6 +.008 / -.003	F7 +.016 / +.034	+.008 +.037	H7 +.000 / +.018	-.008 +.021	M6 -.015 / -.004	-.023 -.001
12	0.4727 / 0.4724	0.4731 / 0.4737	+0.003	0.4725 / 0.4731	-0.003	0.4718 / 0.4723	-0.0009
14	0.5515 / 0.5511	0.5518 / 0.5525	+0.0015	0.5512 / 0.5519	+0.0008	0.5506 / 0.5511	+0.0000
16	0.6302 / 0.6298	0.6306 / 0.6312		0.6300 / 0.6306		0.6293 / 0.6298	
18	0.7089 / 0.7086	0.7093 / 0.7100	↓	0.7087 / 0.7093	↓	0.7080 / 0.7085	↓
MM	j6 +.009 / -.004	F7 +.020 / +.041	+.011 +.045	H7 +.000 / +.021	-.009 +.025	M6 -.017 / -.004	-.026 -.000
19	0.7483 / 0.7479	0.7488 / 0.7496	+0.004	0.7481 / 0.7488	-0.004	0.7473 / 0.7479	-0.0010
20	0.7877 / 0.7873	0.7882 / 0.7890	+0.0018	0.7874 / 0.7882	+0.0010	0.7867 / 0.7873	+0.0000
22	0.8665 / 0.8660	0.8670 / 0.8677		0.8662 / 0.8669		0.8654 / 0.8660	
24	0.9452 / 0.9448	0.9457 / 0.9465	↓	0.9449 / 0.9457	↓	0.9442 / 0.9448	↓
25	0.9846 / 0.9841	0.9851 / 0.9858		0.9843 / 0.9850		0.9835 / 0.9841	
28	1.1027 / 1.1022	1.1032 / 1.1039	↓	1.1024 / 1.1032	↓	1.1017 / 1.1022	↓
30	1.1814 / 1.1810	1.1819 / 1.1827	↓	1.1811 / 1.1819	↓	1.1804 / 1.1810	↓
>30	k6 +.018 / +.002	F7 +.025 / +.050	+.007 +.048	H7 +.000 / +.025	-.018 +.023	K6 -.013 / +.003	-.031 +.001
32	1.2605 / 1.2600	1.2609 / 1.2618	+0.003	1.2599 / 1.2608	-0.007	1.2593 / 1.2600	-0.0012
35	1.3786 / 1.3781	1.3790 / 1.3799	+0.0019	1.3780 / 1.3789	+0.0009	1.3774 / 1.3781	+0.0000
38	1.4967 / 1.4962	1.4971 / 1.4980		1.4961 / 1.4970		1.4955 / 1.4962	
40	1.5755 / 1.5750	1.5758 / 1.5767	↓	1.5748 / 1.5758	↓	1.5743 / 1.5750	↓
42	1.6542 / 1.6537	1.6546 / 1.6555		1.6536 / 1.6545		1.6530 / 1.6537	
45	1.7723 / 1.7718	1.7727 / 1.7736	↓	1.7717 / 1.7726	↓	1.7711 / 1.7718	↓
48	1.8904 / 1.8899	1.8908 / 1.8917	↓	1.8898 / 1.8907	↓	1.8892 / 1.8899	↓
50	1.9692 / 1.9686	1.9695 / 1.9704	↓	1.9685 / 1.9695	↓	1.9680 / 1.9687	↓
>50	m6 +.030 / +.011	F7 +.030 / +.060	+.000 +.049	H7 +.000 / +.030	-.030 +.019	K6 -.021 / +.009	-.051 +.002
55	2.1665 / 2.1658	2.1666 / 2.1677	+0.0000	2.1654 / 2.1665	-0.012	2.1645 / 2.1657	-0.0020
56	2.2059 / 2.2052	2.2059 / 2.2071	+0.0019	2.2047 / 2.2059	+0.0007	2.2039 / 2.2051	-0.0001
60	2.3634 / 2.3627	2.3634 / 2.3645	↓	2.3622 / 2.3634	↓	2.3614 / 2.3626	↓
63	2.4815 / 2.4808	2.4815 / 2.4827		2.4803 / 2.4815		2.4795 / 2.4807	
65	2.5602 / 2.5595	2.5603 / 2.5614	↓	2.5591 / 2.5602	↓	2.5582 / 2.5594	↓
70	2.7571 / 2.7564	2.7571 / 2.7582	↓	2.7559 / 2.7571	↓	2.7551 / 2.7563	↓
71	2.7964 / 2.7957	2.7965 / 2.7976		2.7953 / 2.7964		2.7944 / 2.7957	
75	2.9539 / 2.9532	2.9540 / 2.9551	↓	2.9528 / 2.9539	↓	2.9519 / 2.9531	↓
80	3.1508 / 3.1501	3.1508 / 3.1519	↓	3.1496 / 3.1508	↓	3.1488 / 3.1500	↓
>80	m6 +.035 / +.013	F7 +.036 / +.071	+.001 +.058	H7 +.000 / +.035	-.035 +.022	M7 -.035 / +.000	-.070 -.013
85	3.3478 / 3.3470	3.3479 / 3.3492	+0.0000	3.3465 / 3.3478	-0.014	3.3451 / 3.3465	-0.0028
90	3.5447 / 3.5438	3.5447 / 3.5461	+0.0023	3.5433 / 3.5447	+0.0009	3.5419 / 3.5433	-0.0005
95	3.7415 / 3.7407	3.7416 / 3.7429	↓	3.7402 / 3.7415	↓	3.7388 / 3.7402	↓
100	3.9384 / 3.9375	3.9384 / 3.9398	↓	3.9370 / 3.9384	↓	3.9356 / 3.9370	↓
>100	m6 +.035 / +.013	F7 +.036 / +.071		H7 +.000 / +.035		P7 -.059 / -.024	-.094 -.037
110	4.3321 / 4.3312	4.3321 / 4.3335	↓	4.3307 / 4.3321	↓	4.3284 / 4.3298	-0.0037
120	4.7258 / 4.7249	4.7258 / 4.7272	↓	4.7244 / 4.7258	↓	4.7221 / 4.7235	-0.0015
>120	m6 +.040 / +.015	F7 +.043 / +.083	+.003 +.068	H7 +.000 / +.040	-.040 +.025	P7 -.068 / -.028	-.108 -.043
125	4.9228 / 4.9219	4.9230 / 4.9245	+0.0001	4.9213 / 4.9228	-0.016	4.9186 / 4.9202	-0.0043
130	5.1197 / 5.1187	5.1198 / 5.1214	+0.0027	5.1181 / 5.1197	+0.0010	5.1154 / 5.1170	-0.0017
140	5.5134 / 5.5124	5.5135 / 5.5151	↓	5.5118 / 5.5134	↓	5.5091 / 5.5107	↓
150	5.9071 / 5.9061	5.9072 / 5.9088	↓	5.9055 / 5.9071	↓	5.9028 / 5.9044	↓
160	6.3008 / 6.2998	6.3009 / 6.3025	↓	6.2992 / 6.3008	↓	6.2965 / 6.2981	↓
170	6.6945 / 6.6935	6.6946 / 6.6962	↓	6.6929 / 6.6945	↓	6.6902 / 6.6918	↓
180	7.0882 / 7.0872	7.0883 / 7.0899	↓	7.0866 / 7.0882	↓	7.0839 / 7.0855	↓
>180	m6 +.046 / +.017	F7 +.050 / +.096	+.004 +.079	H7 +.000 / +.046	-.046 +.029	P7 -.079 / -.033	-.125 -.050
190	7.4821 / 7.4810	7.4823 / 7.4841	+0.0002	7.4803 / 7.4821	-0.018	7.4772 / 7.4790	-0.0049
200	7.8758 / 7.8747	7.8760 / 7.8778	+0.0031	7.8740 / 7.8758	+0.011	7.8709 / 7.8727	-0.0020

Dimensions in **BOLD** are in millimeters, rest is in inches.

* Positive values are clearance, negative values are interference. For reference only.

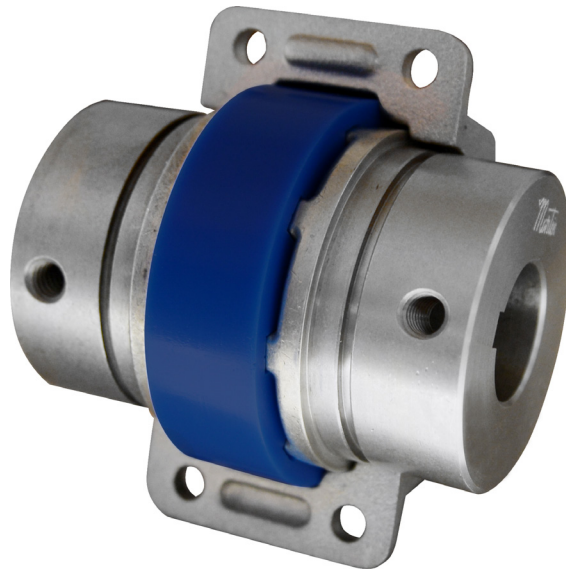
Continued on Continued on Page C-48.

Table 17 – Recommended Bores for Metric Shafts per ISO/R775–1969 (ANSI/AGMA 9112)

	Shaft Diameter	Clearance Fit		Transitional Fit		Interference Fit	
		Hub Bore	Fit*	Hub Bore	Fit*	Hub Bore	Fit*
>200	m6	F7	↓	H7	↓	R7	-.155
MM	+.046 / +.017	+.050 / +.096		+.000 / +.046		-109 / -.063	-.080
210	8.2695 / 8.2684	8.2697 / 8.2715		8.2677 / 8.2695		8.2634 / 8.2652	-0.061
220	8.6632 / 8.6621	8.6634 / 8.6652		8.6614 / 8.6632		8.6571 / 8.6589	-0.031
225	8.8601 / 8.8589	8.8602 / 8.8620		8.8583 / 8.8601		8.8540 / 8.8558	↓
>225	m6	F7		H7		R7	-.159
MM	+.046 / +.017	+.050 / +.096		+.000 / +.046		-.113 / -.067	-.084
230	9.0569 / 9.0558	9.0571 / 9.0589		9.0551 / 9.0569		9.0507 / 9.0525	-0.063
240	9.4506 / 9.4495	9.4508 / 9.4526		9.4488 / 9.4506		9.4444 / 9.4462	-0.033
250	9.8443 / 9.8432	9.8445 / 9.8463		9.8425 / 9.8443		9.8381 / 9.8399	↓
>250	m6	F7	H7	R7	-.178		
MM	+.052 / +.020	+.056 / +.108	+.000 / +.052	-.126 / -.074	-.094		
260	10.2383 / 10.2370	10.2384 / 10.2405	10.2362 / 10.2383	10.2313 / 10.2333	-0.070		
270	10.6320 / 10.6307	10.6321 / 10.6342	10.6299 / 10.6320	10.6250 / 10.6270	-0.037		
280	11.0257 / 11.0244	11.0258 / 11.0279	11.0236 / 11.0257	11.0187 / 11.0207	↓		
>280	m6	F7	H7	R7	-.182		
MM	+.052 / +.020	+.056 / +.108	+.000 / +.052	-.130 / -.078	-.098		
290	11.4194 / 11.4181	11.4195 / 11.4216	11.4173 / 11.4194	11.4122 / 11.4143	-0.072		
300	11.8131 / 11.8118	11.8132 / 11.8153	11.8110 / 11.8131	11.8059 / 11.8080	-0.039		
310	12.2068 / 12.2055	12.2069 / 12.2090	12.2047 / 12.2068	12.1996 / 12.2017	↓		
315	12.4036 / 12.4024	12.4038 / 12.4058	12.4016 / 12.4036	12.3965 / 12.3985	↓		
>315	m6	F7	H7	R7	-.201		
MM	+.057 / +.021	+.062 / +.119	+.000 / +.057	-.144 / -.087	-.108		
320	12.6007 / 12.5993	12.6009 / 12.6031	12.5984 / 12.6007	12.5928 / 12.5950	-0.079		
330	12.9944 / 12.9930	12.9946 / 12.9968	12.9921 / 12.9944	12.9865 / 12.9887	-0.043		
340	13.3881 / 13.3867	13.3883 / 13.3905	13.3858 / 13.3881	13.3802 / 13.3824	↓		
350	13.7818 / 13.7804	13.7820 / 13.7842	13.7795 / 13.7818	13.7739 / 13.7761	↓		
355	13.9786 / 13.9772	13.9788 / 13.9811	13.9764 / 13.9786	13.9707 / 13.9730	↓		
>355	m6	F7	H7	R8	-.260		
MM	+.057 / +.021	+.062 / +.119	+.000 / +.057	-.203 / -.114	-.135		
360	14.1755 / 14.1741	14.1757 / 14.1779	14.1732 / 14.1755	14.1652 / 14.1687	-0.102		
370	14.5692 / 14.5678	14.5694 / 14.5716	14.5669 / 14.5692	14.5589 / 14.5624	-0.053		
380	14.9629 / 14.9615	14.9631 / 14.9653	14.9606 / 14.9629	14.9526 / 14.9561	↓		
390	15.3566 / 15.3552	15.3568 / 15.3590	15.3543 / 15.3566	15.3463 / 15.3498	↓		
400	15.7503 / 15.7489	15.7505 / 15.7527	15.7480 / 15.7503	15.7400 / 15.7435	↓		
>400	m6	F7	H7	R8	-.286		
MM	+.063 / +.023	+.068 / +.131	+.000 / +.063	-.223 / -.126	-.149		
410	16.1442 / 16.1426	16.1444 / 16.1469	16.1417 / 16.1442	16.1330 / 16.1368	-0.113		
420	16.5379 / 16.5363	16.5381 / 16.5406	16.5354 / 16.5379	16.5267 / 16.5305	-0.059		
430	16.9316 / 16.9300	16.9318 / 16.9343	16.9291 / 16.9316	16.9204 / 16.9242	↓		
440	17.3253 / 17.3237	17.3255 / 17.3280	17.3228 / 17.3253	17.3141 / 17.3179	↓		
450	17.7190 / 17.7174	17.7192 / 17.7217	17.7165 / 17.7190	17.7078 / 17.7116	↓		
>450	m6	F7	H7	R8	-.292		
MM	+.063 / +.023	+.068 / +.131	+.000 / +.063	-.229 / -.132	-.155		
460	18.1127 / 18.1111	18.1129 / 18.1154	18.1102 / 18.1127	18.1012 / 18.1050	-0.115		
470	18.5064 / 18.5048	18.5066 / 18.5091	18.5039 / 18.5064	18.4949 / 18.4987	-0.061		
480	18.9001 / 18.8985	18.9003 / 18.9028	18.8976 / 18.9001	18.8886 / 18.8924	↓		
490	19.2938 / 19.2922	19.2940 / 19.2965	19.2913 / 19.2938	19.2823 / 19.2861	↓		
500	19.6875 / 19.6859	19.6877 / 19.6902	19.6850 / 19.6875	19.6760 / 19.6798	↓		

Dimensions in **BOLD** are in millimeters, rest is in inches.

* Positive values are clearance, negative values are interference. For reference only.



Martin Go-Flex® Couplings are one of the easiest to install, maintain, and replace!

A complete coupling consists of 2 hubs, available in carbon or stainless steel, a urethane split insert (choose from 5 types), and a cover – either a slide over cover retained by a snap ring, a vertically split for high-speed applications, or a horizontally split cover for extreme torque applications.

Advantages

- Fast and easy insert replacement
- Low maintenance
- Minimal downtime
- No lubrication
- Urethane inserts available from Standard to Heavy Duty, High Temperature, and Metal Detectable

Once you have correctly selected and properly installed a *Martin* Go-Flex® coupling, the split insert is all you should have to replace. Replacement of the insert is easy and your equipment can be back up and running in minutes! Once the hubs are installed, they never need to be moved again.

Remove only the cover, replace the insert, re-install the cover, and you are ready to go!

- Can be installed vertically or horizontally
- The teeth on the hubs do not touch or overlap thus if the insert fails, you do not have metal to metal contact that could potentially destroy the hubs
- Reversing applications
- No realignment required after insert replacement

Hubs (2 required)



Go-Flex® _____ **GF 20 CS 010 H**

Coupling Size

10, 20, 30, 40, 50, 60 70
80, 90, 100, 110 & 120

Material

CS Carbon Steel
SS Stainless Steel

Bore Size*

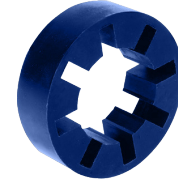
PB Plain Bore	114 1-7/8"
008 1/2"	115 1-15/16"
010 5/8"	200 2"
012 3/4"	202 2-1/8"
014 7/8"	203 2-3/16"
100 1"	204 2-1/4"
102 1-1/8"	206 2-3/8"
103 1-3/16"	207 2-7/16"
104 1-1/4"	208 2-1/2"
106 1-3/8"	210 2-5/8"
107 1-7/16"	212 2-3/4"
108 1-1/2"	214 2-7/8"
110 1-5/8"	215 2-15/16"
112 1-3/4"	300 3"

*Metric, Shrink Fit, Spline Bores available on request

Description

H Hub

Inserts



Go-Flex® _____ **GF 20 SD - INS**

Coupling Size

10, 20, 30, 40, 50, 60 70
80, 90, 100, 110 & 120

Insert Type

SD Standard Duty (Red)
MD Medium Duty (Dark Blue)
XD Extreme Duty (Black)
HT Hi-Temp (White)
FG Food Grade Metal Detectable (Light Blue)

Description

INS Insert

Covers



Go-Flex® _____ **GF 20 SD - CVR**

Coupling Size

10, 20, 30, 40, 50, 60 70
80, 90, 100, 110 & 120

Cover Type

SD Standard Duty (Carbon Steel)
SS Standard Duty (Stainless Steel)
XP Horizontal Split (Aluminum)
VS Vertical Split
HS Horizontal/Vertical Split

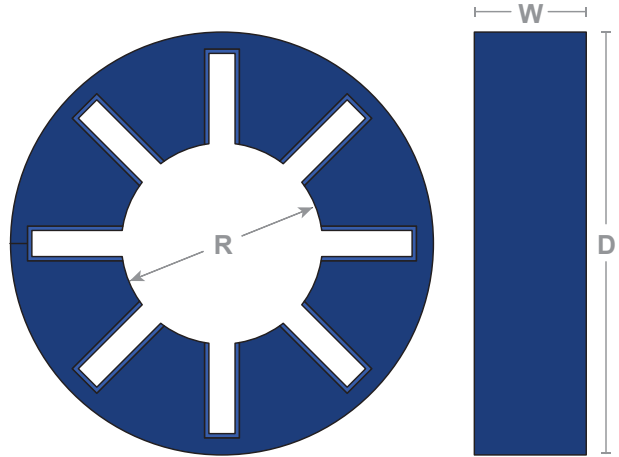
Description

CVR Cover

Go-Flex[®] Inserts

Martin Go-Flex[®] Insert Dimensions (in)

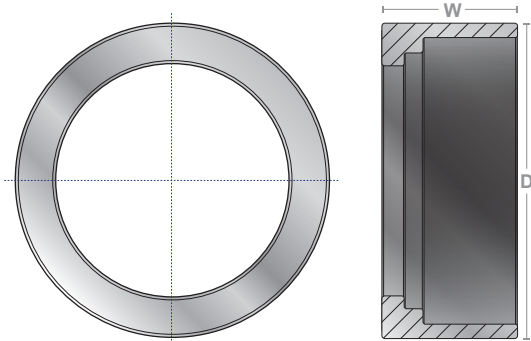
Coupling Series	R	D	W	Wt. (lb)
GF10	1.23	2.23	0.63	0.05
GF20	1.66	2.86	0.85	0.1
GF30	2.16	3.80	1.23	0.3
GF40	2.41	5.05	1.64	0.8
GF50	3.05	6.44	2.02	1.45
GF60	3.90	7.37	2.35	2.0
GF70	4.13	8.20	2.32	3.0
GF80	4.34	9.98	2.63	5.0
GF90	6.19	11.30	2.96	6.0
GF100	7.60	13.61	3.24	9.0
GF110	9.15	15.93	3.67	13.0
GF120	11.25	19.04	5.43	31.0



Standard	Medium Torque	Extreme High Torque	Hi-Temp	Metal Detectable
Operational temperature range of -60°F to 212°F (-50°C to 100°C)	Operational temperature range of -60°F to 212°F (-50°C to 100°C)	Operational temperature range of -60°F to 212°F (-50°C to 100°C)	Operational temperature range up to 300°F (148°C)	Operational temperature range of -60°F to 212°F (-50°C to 100°C)
Moderately soft urethane compound	Higher durometer urethane resulting in a more rigid insert designed for higher torque applications than the regular insert	Insert provides our highest torque ratings	Urethane compound made for Hi-temp applications	Metal Detectable Inserts are made with a FDA compliant additive that provides metal detectability
Applications Vibration dampening, cushioning of shock loads, reversing, or quick starting and stopping of high inertial loads	Applications Moderate to high torque	Applications High torque	Applications Moderate to high torque	Applications Food and chemical Industries where plastic contamination compromises production

Martin Go-Flex® – Standard Cover

Designed for applications where low torque and/or high speed is present.

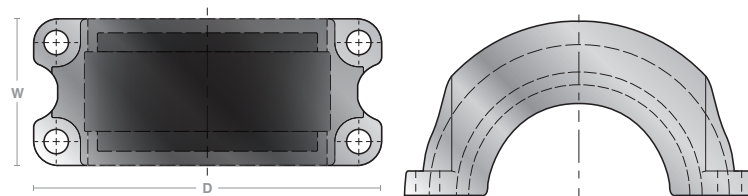


Part Number		Max. RPM \diamond	D	W	Bolt Size
Carbon Steel	Stainless Steel				
GF10SD-CVR	GF10SD-CVR	12,000	0.95	2.49	Retaining Ring
GF20SD-CVR	GF20SD-CVR	9,000	1.35	3.16	Retaining Ring
GF30SD-CVR	GF30SD-CVR	7,000	1.95	4.21	Retaining Ring
GF40SD-CVR	GF40SD-CVR	6,000	2.38	5.48	Retaining Ring
GF50SD-CVR	GF50SD-CVR	4,800	2.96	7.00	Retaining Ring
GF60SD-CVR	GF60SD-CVR	4,200	3.27	8.00	Retaining Ring
GF70SD-CVR	GF70SD-CVR	3,800	3.50	8.88	(8) M10-1.5 x 35MM
GF80SD-CVR	GF80SD-CVR	3,400	4.05	10.77	(8) M10-1.5 x 35MM
GF90SD-CVR	GF90SD-CVR	3,000	4.88	12.13	(8) M10-1.5 x 35MM
GF100SD-CVR	GF100SD-CVR	2,400	5.00	14.38	(8) M12-1.75 x 45MM
GF110SD-CVR	GF110SD-CVR	2,000	5.50	16.75	(8) M20-2.5 x 45MM
GF120SD-CVR	GF120SD-CVR	1,800	7.94	20.10	(8) M20-2.5 x 45MM

G10 to GF 60 Cover are held into position with a retaining ring. GF70 covers are held into position with (8) bolts.

Martin Go-Flex® – Horizontal Split Cover

Designed for all applications including high and/or low torque and high or low speeds while reducing axial loading.



Part Number	Max. RPM \diamond *	W	D	Bolt Size
GF20XP-CVR	9,000	1.93	3.99	(4) M6-1.00 x 25MM
GF30XP-CVR	7,000	2.61	5.34	(4) M10-1.5 x 35MM
GF40XP-CVR	6,000	3.02	7.28	(4) M12-1.75 x 45MM
GF50XP-CVR	4,800	5.96	7.76	(4) M12-1.75 x 60MM
GF60XP-CVR	4,200	6.17	8.52	(4) M16-2.0 x 65MM
GF70XP-CVR	3,800	6.54	10.29	(4) M20-2.5 x 60MM
GF80XP-CVR	3,400	7.93	12.05	(4) M20-2.5 x 60MM

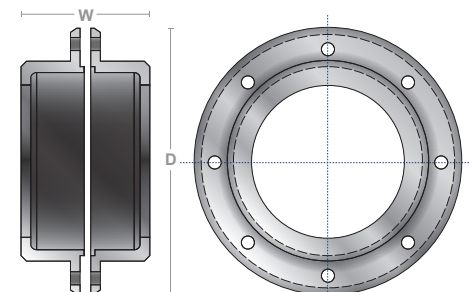
* With Extreme-Duty Insert.

Stainless Steel hardware provided with all High Performance Covers.

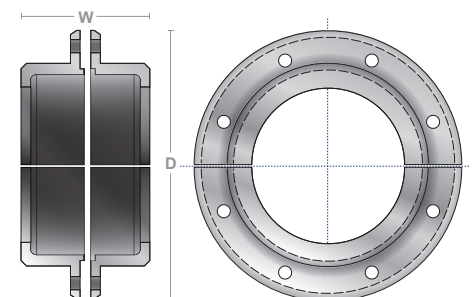
Martin Go-Flex® – Vertical Split and Horizontal/Vertical Split Covers

Designed for high-Speed applications.

Part Number		Max. RPM \diamond	W	D	Flange Bolt Size	Hub Bolt Size
Vertical Split	Horizontal/Vertical Split					
GF20VS-CVR	GF20HS-CVR	9,000	4.7	1.78	(8) M6-1.00 x 20MM	Retaining Ring
GF30VS-CVR	GF30HS-CVR	7,000	5.62	2.5	(8) M6-1.00 x 20MM	Retaining Ring
GF40VS-CVR	GF40HS-CVR	6,000	7.62	3.46	(8) M10-1.5 x 20MM	Retaining Ring
GF50VS-CVR	GF50HS-CVR	4,800	8.95	4.35	(8) M10-1.5 x 35MM	Retaining Ring
GF60VS-CVR	GF60HS-CVR	4,200	9.85	4.5	(8) M10-1.5 x 35MM	Retaining Ring
GF70VS-CVR	GF70HS-CVR	3,800	10.5	4.68	(8) M10-1.5 x 35MM	(8) M10-1.5 x 35MM
GF80VS-CVR	GF80HS-CVR	3,400	13.5	5.88	(12) M12-1.75 x 45MM	(8) M10-1.5 x 35MM
GF90VS-CVR	GF90HS-CVR	3,000	15.25	6.21	(16) M12-1.75 x 45MM	(8) M10-1.5 x 35MM
GF100VS-CVR	GF100HS-CVR	2,800	17.75	7.32	(16) M12-1.75 x 50MM	(8) M12-1.75 x 45MM
GF110VS-CVR	GF110HS-CVR	2,000	19.59	7.42	(20) M12-1.75 x 45MM	(8) M20-2.5 x 45MM
GF120VS-CVR	GF120HS-CVR	1,200	24.38	10.85	(20) M12-1.75 x 45MM	(8) M20-2.5 x 45MM



Vertical Split Cover



Horizontal/Vertical Split Cover

\diamond For applications above listed RPM, consult *Martin*.

Go-Flex® Quick Selection Guide



Insert Features



Standard-Duty (Red)	Medium-Duty (Dark Blue)	Extreme-Duty (Black)	High Temp (White)	Metal Detectable (Light Blue)
Max Temp: 212°F	Max Temp: 212°F	Max Temp: 212°F	Max Temp: 300°F	Max Temp: 212°F
Greatest Dampening	Lower Dampening	Lowest Dampening	Lower Dampening	Greatest Dampening
Lowest Torque	Higher Torque	Highest Torque	Higher Torque	Lowest Torque

High-Speed Standard Cover

Max Bore	Coupling Series	Max Torque Rating (in. lb.)				
		Standard-Duty	Medium-Duty	Extreme-Duty	High Temp	Metal Detectable
1-1/4"	GF10	377	792	792	792	365

Horizontal Split, Vertical Split & Horizontal/Vertical Split Covers

Max Bore	Coupling Series	Max Torque Rating (in. lb.)				
		Standard-Duty	Medium-Duty	Extreme-Duty	High Temp	Metal Detectable
1-5/8"	GF20	1,254	2,457	3,789	2,457	1,254
2-1/4"	GF30	4,099	7,730	11,914	7,730	4,099
2-3/8"	GF40	8,630	17,099	25,870	17,099	8,630
3"	GF50	17,315	34,336	52,408	34,336	17,315
3-7/8"	GF60	30,353	58,137	87,110	58,137	30,353
4-1/8"	GF70	38,048	75,538	116,432	75,538	38,048
4-1/2"	GF80	75,000	145,000	220,000	145,000	75,000
5-1/2"	GF90	105,000	204,000	310,000	204,000	105,000
7"	GF100	175,000	345,000	550,000	345,000	175,000
8"	GF110	300,000	565,000	870,000	565,000	300,000
11"	GF120	599,700	1,120,000	1,680,000	1,120,000	599,700

Formula Selection Method

Information required before a coupling can be selected:

- HP and RPM or torque of driver
- Shaft sizes of driver and driven equipment
- Corresponding keyways
- Application description to determine service factor
- Environmental conditions

Step 1. Determine the Nominal Torque (T) of your application

$$\text{in/lb} = T = \frac{(63025 \times \text{HP})}{\text{RPM}}$$

Step 2. Refer to pages C-63 & 66 to determine Application Service Factor

Step 3. Calculate the Design Torque of your application.

Design Torque = Nominal Torque (T) x Application Service Factor

Example:

Driver: 5HP, 1800RPM electric motor

Driven: belt conveyor (refer to pages C-63 & 66)

$$\text{in/lbs} = T = \frac{(63025 \times 5\text{HP})}{1800}$$

Nominal Torque (T) = 175 in/lbs

Design Torque = 175 (Nominal Torque) x 1.75 (Application Service Factor from pages C-63 & 66)

Design Torque = 306.25 in/lbs Torque

Step 4. Refer to page C-57 to select correct coupling size - ie. GF10

Step 5. Confirm that the shaft size of the driver and driven shafts are equal to or less than the maximum bore size (refer to coupling dimensional pages)

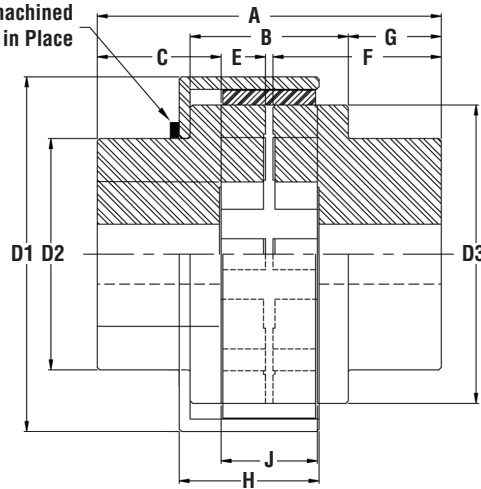
Step 6. Confirm environmental conditions to determine correct cover, hubs, and insert material (stainless steel or carbon steel hubs and cover, food grade, high temp or standard insert)

For reversing applications with high inertia loads, please consult *Martin*.

Go-Flex[®] with Standard Cover Dimensions/Ratings



Go-Flex[®] Couplings up to GF60 have machined Snap Ring Grooves to hold the Covers in Place



Martin Go-Flex[®] Coupling with Standard Cover Dimensions/Ratings (Carbon Steel and Stainless Steel)

Coupling Series	Pilot Bore Diameter	Maximum Bore Size \circ Square Key	Max RPM*	Maximum Torque (in-lbs) \blacksquare	A	B	D1	D2	D3	C	E MIN	E MAX	F	G	H	J	Wt. \diamond (lb)
GF10	1/2"	1-1/4"	12,000	792	2.8	1.03	2.49	2	2.07	1.08	0.062	0.092	1.37	0.88	0.95	0.66	4
GF20	1/2"	1-5/8"	9,000	2,457	3.54	1.28	3.16	2.31	2.55	1.34	0.089	0.104	1.75	1.14	1.35	0.88	5
GF30	3/4"	2-1/4"	7,000	7,730	4.86	2	4.21	3.19	3.37	1.81	0.1	0.13	2.39	1.42	1.95	1.25	11
GF40	7/8"	2-3/8"	6,000	17,099	5.96	2.42	5.48	3.52	4.49	2.16	0.105	0.181	2.96	1.78	2.38	1.66	15
GF50	1"	3"	4,800	34,336	7.07	3.48	7	4.25	5.92	2.46	0.18	0.211	3.4	1.76	2.96	2.19	37
GF60	1"	3-7/8"	4,200	58,137	7.69	3.67	8	5.5	6.75	2.67	0.253	0.293	3.75	2	3.27	2.45	57
GF70	1-1/2"	4-1/8"	3,800	75,538	8.51	3.96	8.88	5.79	7.48	3.1	0.17	0.209	4.21	2.33	3.5	2.49	71
GF80	1-7/8"	4-1/2"	3,400	145,000	10.13	4.67	10.77	7	9.25	3.75	0.196	0.25	5	2.75	4.05	2.75	126
GF90	1-7/8"	5-1/2"	3,000	204,000	12.29	5.09	12.13	7.81	10.5	4.6	0.237	0.349	6	3.6	4.88	3.04	216
GF100	2-1/8"	7"	2,400	345,000	14.28	5.92	14.38	9.5	12.8	5.74	0.25	0.347	7.26	4.45	5	3.35	400
GF110	2-1/8"	8"	2,000	565,000	16.2	6.2	16.75	11	15.09	6.18	0.167	0.309	7.98	5	5.5	3.99	532
GF120	2-1/8"	11"	1,800	1,120,000	20.08	9.18	20.1	15	17.75	7.22	0.236	0.424	9.88	5.45	7.94	5.68	1116

* For applications above listed RPM, consult Martin.

\diamond All weights shown are approximate for a complete standard coupling assembly.

\blacksquare Maximum torque values (in-lbs) are based on use with black insert. Refer to page C-55 for complete torque ratings.

\circ Maximum bore size has reduced keyway on sizes GF20, GF30, and GF40.

Reduced keyways in max bore hubs measure as follows:

GF20SD1-5/8" - 3/8" x 3/32" keyway; GF30SD2-1/8" - 1/2" x 1/8" keyway; GF40SD2-3/8" - 5/8" x 5/32" keyway.

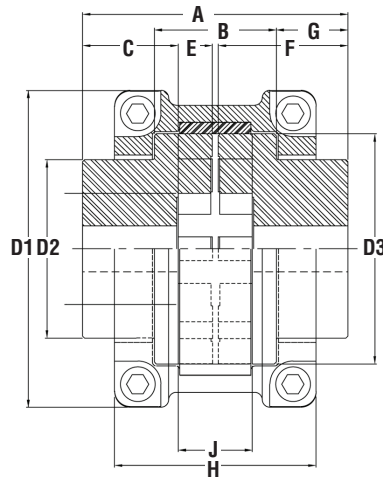
Martin Go-Flex[®] Insert Maximum Torque Ratings (in-lb)

Coupling Series	Standard-Duty Red	Medium-Duty Dark Blue	Extreme-Duty Black	High Temp White	Metal Detectable Light Blue
GF10	377	792	-	792	377
GF20	1,254	2,457	-	2,457	1,254
GF30	4,099	7,730	-	7,730	4,099
GF40	8,630	17,099	-	17,099	8,630
GF50	17,315	34,336	-	34,336	17,315
GF60	30,353	58,137	-	58,137	30,353
GF70	38,048	75,538	-	75,538	38,048
GF80	75,000	145,000	-	145,000	75,000
GF90	105,000	204,000	-	204,000	105,000
GF100	175,000	345,000	-	345,000	175,000
GF110	300,000	565,000	-	565,000	300,000
GF120	599,700	1,120,000	-	1,120,000	599,700

Note:
It is not recommended to use the Black insert with the Standard Cover. In high torque applications we recommend the use of the Horizontal Split Cover.



Go-Flex® with Horizontal Split Cover Dimensions/Ratings



Martin Go-Flex® Coupling with Horizontal Split Cover Dimensions/Ratings (Carbon Steel Only)

Coupling Series	Pilot Bore Diameter	Maximum Bore Size \circ Square Key	Max RPM*	Maximum Torque (in-lbs)■	A	B	D1	D2	D3	C	E MIN	E MAX	F	G	H	J	Wt. \diamond (lb)
GF20	1/2"	1-5/8"	9,000	2,457	3.54	1.28	3.99	2.31	2.55	1.34	0.089	0.104	1.75	1.14	1.93	0.88	5
GF30	3/4"	2-1/4"	7,000	7,730	4.86	2	5.34	3.19	3.37	1.81	0.1	0.13	2.39	1.42	2.61	1.25	12
GF40	7/8"	2-3/8"	6,000	17,099	5.96	2.42	7.28	3.52	4.49	2.16	0.105	0.14	2.96	1.78	3.02	1.66	17
GF50	1"	3"	4,800	34,336	7.07	3.48	7.76	4.25	5.92	2.46	0.221	0.32	3.4	1.76	5.96	2.19	40
GF60	1"	3-7/8"	4,200	58,137	7.69	3.67	8.52	5.5	6.75	2.67	0.253	0.314	3.75	2	6.17	2.45	59
GF70	1-1/2"	4-1/8"	3,800	75,538	8.51	3.96	10.29	5.79	7.48	3.1	0.17	0.209	4.21	2.33	6.54	2.49	81
GF80	1-7/8"	4-1/2"	3,400	145,000	10.13	4.67	12.02	7	9.25	3.75	0.196	0.335	5	2.75	7.92	2.75	138

* For applications above listed RPM, consult *Martin*.

\diamond All weights shown are approximate for a complete standard coupling assembly.

■ Maximum torque values (in-lbs) are based on use with black insert. Refer to page C-55 for complete torque ratings.

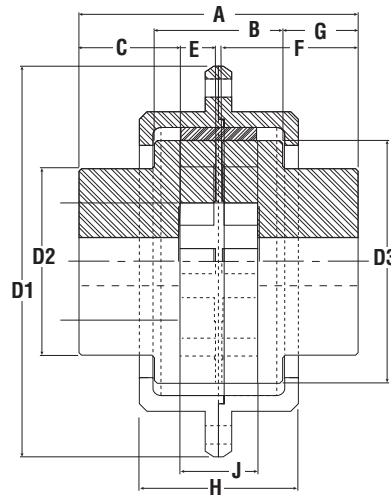
\circ Maximum bore size has reduced keyway on sizes GF20, GF30, and GF40.

Reduced keyways in max bore hubs measure as follows: GF20XP1-5/8" - 3/8" x 3/32" keyway; GF30XP2-1/8" - 1/2" x 1/8" keyway; GF40XP2-3/8" - 5/8" x 5/32" keyway.

Martin Go-Flex® Insert Maximum Torque Ratings (in-lb)

Coupling Series	Standard-Duty Red	Medium-Duty Dark Blue	Extreme-Duty Black	High Temp White	Metal Detectable Light Blue
GF20	1,254	2,457	3,789	2,457	1,254
GF30	4,099	7,730	11,914	7,730	4,099
GF40	8,630	17,099	25,870	17,099	8,630
GF50	17,315	34,336	52,408	34,336	17,315
GF60	30,353	58,137	87,110	58,137	30,353
GF70	38,048	75,538	116,432	75,538	38,048
GF80	75,000	145,000	220,000	145,000	75,000

Go-Flex[®] with Vertical Split Dimensions/Ratings



Martin Go-Flex[®] Coupling with Vertical Split Cover Dimensions/Ratings

Coupling Series	Pilot Bore Diameter	Maximum Bore Size \circ Square Key	Max RPM*	Maximum Torque (in-lbs)■	A	B	D1	D2	D3	C	E MIN	E MAX	F	G	H	J	Wt. \diamond (lb)
GF20	1/2"	1-5/8"	9,000	2,457	3.54	1.28	4.7	2.31	2.55	1.34	0.089	0.104	1.75	1.14	1.78	0.88	7
GF30	3/4"	2-1/4"	7,000	7,730	4.86	2	5.62	3.19	3.37	1.81	0.1	0.13	2.39	1.42	2.5	1.25	13
GF40	7/8"	2-3/8"	6,000	17,099	5.96	2.42	7.62	3.52	4.49	2.16	0.105	0.181	2.96	1.78	3.08	1.66	20
GF50	1"	3"	4,800	34,336	7.07	3.48	8.95	4.25	5.92	2.46	0.221	0.32	3.4	1.76	4.36	2.19	47
GF60	1"	3-7/8"	4,200	58,137	7.69	3.67	9.85	5.5	6.75	2.67	0.253	0.314	3.75	2	4.5	2.45	65
GF70	1-1/2"	4-1/8"	3,800	75,538	8.51	3.96	10.5	5.79	7.48	3.1	0.17	0.209	4.21	2.33	4.67	2.49	80
GF80	1-7/8"	4-1/2"	3,400	145,000	10.13	4.67	13.5	7	9.25	3.75	0.196	0.335	5	2.75	5.88	2.75	136
GF90	1-7/8"	5-1/2"	3,000	204,000	12.29	5.09	15.25	7.81	10.5	4.6	0.237	0.349	6	3.6	6.21	3.04	226
GF100	2-1/8"	7"	2,400	345,000	14.28	5.92	17.75	9.5	12.8	5.74	0.288	0.397	7.26	4.45	7.32	3.35	410
GF110	2-1/8"	8"	2,000	565,000	16.2	6.2	19.56	11	15.09	6.18	0.167	0.309	7.98	5	7.42	3.99	542
GF120	2-1/8"	11"	1,800	1,120,000	20.08	9.18	24.38	15	17.75	7.22	0.236	0.424	9.88	5.45	10.85	5.68	1136

* For applications above listed RPM, consult *Martin*.

\diamond All weights shown are approximate for a complete standard coupling assembly.

■ Maximum torque values (in-lbs) are based on use with black insert. Refer to page C-55 for complete torque ratings.

\circ Maximum bore size has reduced keyway on sizes GF20, GF30, and GF40.

Reduced keyways in max bore hubs measure as follows:

GF20VS1-5/8" - 3/8" x 3/32" keyway; GF30VS2-1/8" - 1/2" x 1/8" keyway; GF40VS2-3/8" - 5/8" x 5/32" keyway.

Martin Go-Flex[®] Insert Maximum Torque Ratings (in-lb)

Coupling Series	Standard-Duty Red	Medium-Duty Dark Blue	Extreme-Duty Black	High Temp White	Metal Detectable Light Blue
GF20	1,254	2,457	3,789	2,457	1,254
GF30	4,099	7,730	11,914	7,730	4,099
GF40	8,630	17,099	25,870	17,099	8,630
GF50	17,315	34,336	52,408	34,336	17,315
GF60	30,353	58,137	87,110	58,137	30,353
GF70	38,048	75,538	116,432	75,538	38,048
GF80	75,000	145,000	220,000	145,000	75,000
GF90	105,000	204,000	310,000	204,000	105,000
GF100	175,000	345,000	550,000	345,000	175,000
GF110	300,000	565,000	870,000	565,000	300,000
GF120	599,700	1,120,000	1,680,000	1,120,000	599,700



Go-Flex® Keyway Sizes and Tolerances

Martin Go-Flex® Standard Bore Sizes

Coupling Size	PB	1/2"	5/8"	3/4"	7/8"	1"	1-1/8"	1-3/16"	1-1/4"	1-3/8"	1-7/16"	1-1/2"	1-5/8"	1-3/4"	1-7/8"	1-15/16"
GF10	X	X	X	X	X	X	X	X	X							
GF20	X		X	X	X	X	X	X	X	X	X	X	X			
GF30	X				X	X	X	X	X	X	X	X	X	X	X	X
GF40	X				X	X	X		X	X	X	X	X	X	X	X
GF50	X											X	X	X	X	X
GF60	X															
GF70	X															
GF80	X															

Martin Go-Flex® Standard Bore Sizes (cont'd)

Coupling Size	2"	2-1/8"	2-3/16"	2-1/4"	2-3/8"	2-7/16"	2-1/2"	2-5/8"	2-3/4"	2-7/8"	2-15/16"	3"
GF10												
GF20												
GF30	X	X										
GF40	X	X	X	X	X							
GF50	X	X		X	X	X	X	X	X	X	X	X
GF60												
GF70												
GF80												

Martin Go-Flex® Bore Tolerances and Keyway Sizes

Shaft Diameter (Nom)	Keyway Size (Nom)		Bore Tolerances				Set Screw Size
	Width	Depth	Clearance Fit**		Interference fit**		
1/2" - 9/16"	1/8"	1/16"	+0.0015	-0.0000	-0.0005	-0.0010	5/16"
5/8" - 7/8"	3/16"	3/32"	+0.0015	-0.0000	-0.0005	-0.0010	5/16"
15/16" - 1-1/4"	1/4"	1/8"	+0.0015	-0.0000	-0.0005	-0.0010	5/16"
1-15/16" - 1-3/8"	5/16"	5/32"	+0.0015	-0.0000	-0.0005	-0.0010	5/16"
1-7/16" - 1-3/4"	3/8"	3/16"	+0.0015	-0.0000	-0.0005	-0.0015	5/16"
1-13/16" - 2-1/4"	1/2"	1/4"	+0.0025	-0.0000	-0.0005	-0.0015	3/8"
2-5/16" - 2-3/4"	5/8"	5/16"	+0.0025	-0.0000	-0.0010	-0.0020	1/2"
2-13/16" - 3-1/4"	3/4"	3/8"	+0.0025	-0.0000	-0.0010	-0.0020	5/8"
3-5/16" - 3-3/4"	7/8"	7/16"	+0.0025	-0.0000	-0.0015	-0.0025	5/8"
3-13/16" - 4-1/2"	1"	1/2"	+0.0025	-0.0000	-0.0025	-0.0035	5/8"

** For Class 1 Fit

Reduced keyways in max bore hubs measure as follows: GF20X1-5/8" - 3/8" x 3/32" keyway; GF30X2-1/8" - 1/2" x 1/8" keyway; GF40X2-3/8" - 5/8" x 5/32" keyway.

Torque Ratings



Torque Ratings for *Martin* Go-Flex® Carbon Steel Couplings with Standard Cover

Coupling Series	Insert Part Number	Insert Color	Continuous Torque (in-lb)	HP Ratings @ Various RPM (Service Factor = 1)							
				100	300	600	900	1200	1800	2400	3600
GF10	GF10SD-INS	Red	365	1	2	3	5	7	10	14	21
	GF10MD-INS	Blue	792	1	4	8	11	15	23	30	45
	GF10HT-INS	White	792	1	4	8	11	15	23	30	45
	GF10FG-INS	Light Blue	365	1	2	3	5	7	10	14	21
GF20	GF20SD-INS	Red	1,254	2	6	12	18	24	36	48	72
	GF20MD-INS	Blue	2,457	4	12	23	35	47	70	94	140
	GF20HT-INS	White	2,457	4	12	23	35	47	70	94	140
	GF20FG-INS	Light Blue	1,254	2	6	12	18	24	36	48	72
GF30	GF30SD-INS	Red	4,099	7	20	39	59	78	117	156	234
	GF30MD-INS	Blue	7,730	12	37	74	110	147	221	294	442
	GF30HT-INS	White	7,730	12	37	74	110	147	221	294	442
	GF30FG-INS	Light Blue	4,099	7	20	39	59	78	117	156	234
GF40	GF40SD-INS	Red	8,630	14	41	82	123	164	246	329	493
	GF40MD-INS	Blue	17,099	27	81	163	244	326	488	651	977
	GF40HT-INS	White	17,099	27	81	163	244	326	488	651	977
	GF40FG-INS	Light Blue	8,630	14	41	82	123	164	246	329	493
GF50	GF50SD-INS	Red	17,315	27	82	165	247	330	495	659	989
	GF50MD-INS	Blue	34,336	54	163	327	490	654	981	1,308	1,961
	GF50HT-INS	White	34,336	54	163	327	490	654	981	1,308	1,961
	GF50FG-INS	Light Blue	17,315	27	82	165	247	330	495	659	989
GF60	GF60SD-INS	Red	30,353	48	144	289	433	578	867	1,156	1,734
	GF60MD-INS	Blue	58,137	92	277	553	830	1,107	1,660	2,214	3,321
	GF60HT-INS	White	58,137	92	277	553	830	1,107	1,660	2,214	3,321
	GF60FG-INS	Light Blue	30,353	48	144	289	433	578	867	1,156	1,734
GF70	GF70SD-INS	Red	38,048	60	181	362	543	724	1,087	1,449	2,173
	GF70MD-INS	Blue	75,538	120	360	719	1,079	1,438	2,157	2,877	4,315
	GF70HT-INS	White	75,538	120	360	719	1,079	1,438	2,157	2,877	4,315
	GF70FG-INS	Light Blue	38,048	60	181	362	543	724	1,087	1,449	2,173
GF80	GF80SD-INS	Red	75,000	119	357	714	1,071	1,428	2,142	2,856	-
	GF80MD-INS	Blue	145,000	230	690	1,380	2,071	2,761	4,141	5,522	-
	GF80HT-INS	White	145,000	230	690	1,380	2,071	2,761	4,141	5,522	-
	GF80FG-INS	Light Blue	75,000	119	357	714	1,071	1,428	2,142	2,856	-
GF90	GF90SD-INS	Red	105,000	167	500	1,000	1,499	1,999	2,999	3,998	-
	GF90MD-INS	Blue	204,000	324	971	1,942	2,913	3,884	5,826	7,768	-
	GF90HT-INS	White	204,000	324	971	1,942	2,913	3,884	5,826	7,768	-
	GF90FG-INS	Light Blue	105,000	167	500	1,000	1,499	1,999	2,999	3,998	-
GF100	GF100SD-INS	Red	175,000	278	833	1,666	2,499	3,332	4,998	6,664	-
	GF100MD-INS	Blue	345,000	547	1,642	3,284	4,927	6,569	9,853	13,138	-
	GF100HT-INS	White	345,000	547	1,642	3,284	4,927	6,569	9,853	13,138	-
	GF100FG-INS	Light Blue	175,000	278	833	1,666	2,499	3,332	4,998	6,664	-
GF110	GF110SD-INS	Red	300,000	476	1,428	2,856	4,284	5,712	8,568	-	-
	GF110MD-INS	Blue	565,000	896	2,689	5,379	8,068	10,758	16,136	-	-
	GF110HT-INS	White	565,000	896	2,689	5,379	8,068	10,758	16,136	-	-
	GF110FG-INS	Light Blue	300,000	476	1,428	2,856	4,284	5,712	8,568	-	-
GF120	GF120SD-INS	Red	599,700	952	2,855	5,709	8,564	11,418	17,127	-	-
	GF120MD-INS	Blue	1,120,000	1,777	5,331	10,662	15,994	21,325	31,987	-	-
	GF120HT-INS	White	1,120,000	1,777	5,331	10,662	15,994	21,325	31,987	-	-
	GF120FG-INS	Light Blue	599,700	952	2,855	5,709	8,564	11,418	17,127	-	-

Martin Go-Flex® flexible couplings can sustain momentary peak torque loads in excess of 200% of its maximum torque rating.



Torque Ratings

Torque Ratings for *Martin* Go-Flex® Carbon Steel Couplings with Horizontal Split, Vertical Split and Horizontal/ Vertical Split Cover

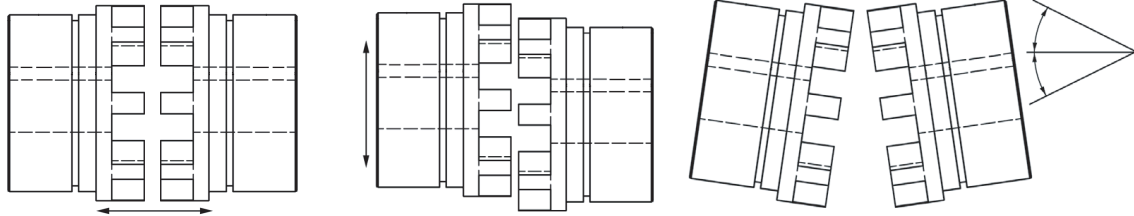
Coupling Series	Insert Part Number	Insert Color	Continuous Torque (in-lb)	HP Ratings @ Various RPM (Service Factor = 1)							
				100	300	600	900	1200	1800	2400	3600
GF20	GF20SD-INS	Red	1,254	2	6	12	18	24	36	48	72
	GF20MD-INS	Blue	2,457	4	12	23	35	47	70	94	140
	GF20XD-INS	Black	3,789	6	18	36	54	72	108	144	216
	GF20HT-INS	White	2,457	4	12	23	35	47	70	94	140
	GF20FG-INS	Light Blue	1,254	2	6	12	18	24	36	48	72
GF30	GF30SD-INS	Red	4,099	7	20	39	59	78	117	156	234
	GF30MD-INS	Blue	7,730	12	37	74	110	147	221	294	442
	GF30XD-INS	Black	11,914	19	57	113	170	227	340	454	681
	GF30HT-INS	White	7,730	12	37	74	110	147	221	294	442
	GF30FG-INS	Light Blue	4,099	7	20	39	59	78	117	156	234
GF40	GF40SD-INS	Red	8,630	14	41	82	123	164	246	329	493
	GF40MD-INS	Blue	17,099	27	81	163	244	326	488	651	977
	GF40XD-INS	Black	25,870	41	123	246	369	493	739	985	1,478
	GF40HT-INS	White	17,099	27	81	163	244	326	488	651	977
	GF40FG-INS	Light Blue	8,630	14	41	82	123	164	246	329	493
GF50	GF50SD-INS	Red	17,315	27	82	165	247	330	495	659	989
	GF50MD-INS	Blue	34,336	54	163	327	490	654	981	1,308	1,961
	GF50XD-INS	Black	52,408	83	249	499	748	998	1,497	1,996	2,994
	GF50HT-INS	White	34,336	54	163	327	490	654	981	1,308	1,961
	GF50FG-INS	Light Blue	17,315	27	82	165	247	330	495	659	989
GF60	GF60SD-INS	Red	30,353	48	144	289	433	578	867	1,156	1,734
	GF60MD-INS	Blue	58,137	92	277	553	830	1,107	1,660	2,214	3,321
	GF60XD-INS	Black	87,110	138	415	829	1,244	1,659	2,488	3,317	4,976
	GF60HT-INS	White	58,137	92	277	553	830	1,107	1,660	2,214	3,321
	GF60FG-INS	Light Blue	30,353	48	144	289	433	578	867	1,156	1,734
GF70	GF70SD-INS	Red	38,048	60	181	362	543	724	1,087	1,449	2,173
	GF70MD-INS	Blue	75,538	120	360	719	1,079	1,438	2,157	2,877	4,315
	GF70XD-INS	Black	116,432	185	554	1,108	1,663	2,217	3,325	4,434	6,651
	GF70HT-INS	White	75,538	120	360	719	1,079	1,438	2,157	2,877	4,315
	GF70FG-INS	Light Blue	38,048	60	181	362	543	724	1,087	1,449	2,173
GF80	GF80SD-INS	Red	75,000	119	357	714	1,071	1,428	2,142	2,856	-
	GF80MD-INS	Blue	145,000	230	690	1,380	2,071	2,761	4,141	5,522	-
	GF80XD-INS	Black	220,000	349	1,047	2,094	3,142	4,189	6,283	8,378	-
	GF80HT-INS	White	145,000	230	690	1,380	2,071	2,761	4,141	5,522	-
	GF80FG-INS	Light Blue	75,000	119	357	714	1,071	1,428	2,142	2,856	-
GF90	GF90SD-INS	Red	105,000	167	500	1,000	1,499	1,999	2,999	3,998	-
	GF90MD-INS	Blue	204,000	324	971	1,942	2,913	3,884	5,826	7,768	-
	GF90XD-INS	Black	310,000	492	1,476	2,951	4,427	5,902	8,854	11,805	-
	GF90HT-INS	White	204,000	324	971	1,942	2,913	3,884	5,826	7,768	-
	GF90FG-INS	Light Blue	105,000	167	500	1,000	1,499	1,999	2,999	3,998	-
GF100	GF100SD-INS	Red	175,000	278	833	1,666	2,499	3,332	4,998	6,664	-
	GF100MD-INS	Blue	345,000	547	1,642	3,284	4,927	6,569	9,853	13,138	-
	GF100XD-INS	Black	550,000	873	2,618	5,236	7,854	10,472	15,708	20,944	-
	GF100HT-INS	White	345,000	547	1,642	3,284	4,927	6,569	9,853	13,138	-
	GF100FG-INS	Light Blue	175,000	278	833	1,666	2,499	3,332	4,998	6,664	-
GF110	GF110SD-INS	Red	300,000	476	1,428	2,856	4,284	5,712	8,568	-	-
	GF110MD-INS	Blue	565,000	896	2,689	5,379	8,068	10,758	16,136	-	-
	GF110XD-INS	Black	870,000	1,380	4,141	8,282	12,424	16,565	24,847	-	-
	GF110HT-INS	White	565,000	896	2,689	5,379	8,068	10,758	16,136	-	-
	GF110FG-INS	Light Blue	300,000	476	1,428	2,856	4,284	5,712	8,568	-	-
GF120	GF120SD-INS	Red	599,700	952	2,855	5,709	8,564	11,418	-	-	-
	GF120MD-INS	Blue	1,120,000	1,777	5,331	10,662	15,994	21,325	-	-	-
	GF120XD-INS	Black	1,680,000	2,666	7,997	15,994	23,990	31,987	-	-	-
	GF120HT-INS	White	1,120,000	1,777	5,331	10,662	15,994	21,325	-	-	-
	GF120FG-INS	Light Blue	599,700	952	2,855	5,709	8,564	11,418	-	-	-

Martin Go-Flex® flexible couplings can sustain momentary peak torque loads in excess of 200% of its maximum torque rating.

Misalignment Tolerances



Martin Go-Flex® Couplings Misalignment Tolerances



Coupling Series	Axial Misalignment Tolerance (in)	Radial Misalignment Tolerance (in)	Angular Misalignment Tolerance
GF10	0.078	0.020	2°
GF20	0.116	0.039	2°
GF30	0.116	0.039	2°
GF40	0.116	0.039	2°
GF50	0.156	0.058	2°
GF60	0.175	0.058	1.3°
GF70	0.234	0.058	1.3°
GF80	0.234	0.058	1°
GF90	0.234	0.058	1°
GF100	0.312	0.058	1°
GF110	0.312	0.078	1°
GF120	0.312	0.078	1°

Application	Factor
AERATORS	2.5
AGGREGATE PROCESSING, CEMENT, MINING KILNS	
Direct or on Line Shaft of Reducer	
With Final Drive Machined Spur Gears	2.25
With Single Helical or Herringbone Gears	2.0
Crushers, Ore or Stone	2.75
Dryer, Rotary	2.0
Grizzly	2.25
Hammermill or Hog	2.0
Tumbling Mill or Barrel	2.0
AGITATORS	
Vertical, Horizontal, Screw, Propeller, Paddle	1.25
BARGE HAUL PULLER	1.75
BLOWERS	
Centrifugal	1.5
Lobe or Vane	1.5
BREWING AND DISTILLING	
Bottle and Can Filling Machines	1.5
Brew Kettle	1.25
Cookers, Continuous Duty	1.5
Lauter Tub	1.75
Mash Tub	1.5
Scale Hopper, Frequent Peaks	2.0
CLARIFIER OR CLASSIFIER	1.25
CLAY WORKING INDUSTRY	
Brick Press, Briquette Machine, Clay Working Machine, Pug Mill	2.0
COMPRESSORS	
Centrifugal	1.25
Rotary, Lobe or Vane	1.5
Rotary, Screw	1.5
Reciprocating	
Direct Connected	Refer to Factory
Without Flywheels	Refer to Factory
With Flywheel and Gear between Compressor and Prime Monitor	
1 Cylinder, Single Acting	3.0
1 Cylinder, Double Acting	3.0
2 Cylinders, Single Acting	3.0
2 Cylinders Double Acting	3.0
3 Cylinders Single Acting	3.0
3 Cylinders, Double Acting	2.0
4 Or More Cyl Single Acting	2.5
4 Or More Cyl Double Acting	2.5

Application	Factor
CONVEYORS	
Apron, Assembly, Belt, Chain, Flight, Screw	1.75
Bucket	1.75
Live Roll, Shaker and Reciprocating	3.0
Bridge, Travel or Trolley	2.50
DREDGERS	
Cable Reel	2.0
Conveyors	1.50
Cutter Head, Jig Drive	2.5
Maneuvering Winch	1.75
Pumps (Uniform Load)	1.75
Screen Drive, Stacker	2.0
Utility Winch	2.0
DYNAMOMETER	1.5
ELEVATORS - BUCKET, CENTRIFUGAL DISCHARGE	1.75
EXCITER, GENERATOR	1.5
EXTRUDER, PLASTIC	1.5
FANS	
Centrifugal	1.25
Cooling Tower	2.0
Forced Draft-Across the Line Start	1.75
FOOD INDUSTRY	
Beet Slicer	2.0
Bottling, Can, Filling Machine	1.5
Cereal Cooker	1.5
Dough Mixer, Meat Grinder	2.0
Forced Draft Motor driven thru fluid or Electric Slip Clutch	1.25
Gas Recirculating	1.50
Induced Draft with damper control or blade cleaner	1.50
Induced Draft without controls	2.0
FEEDERS	
Apron, Belt, Disc, Screw	1.25
Reciprocating	2.5
GENERATORS	
Even Load	1.25
Hoist or Railway Service	1.75
Welder Load	2.0
HAMMERMILL	1.75
LAUNDRY WASHER OR TUMBLER	2.0
LINE SHAFTS ANY PROCESSING MACHINERY	1.5
LUMBER	
Band Resaw	2.0
Circular Resaw, Cutoff	2.0
Edger, Head Rig, Hog	2.5
Gang Saw (Reciprocating)	3.0

Application	Factor
Log Haul	2.5
Planer	2.0
Rolls, Non-Reversing	1.5
Rolls, Reversing	2.5
Sawdust Conveyor	1.5
Slab Conveyor	2.0
Sorting Table	1.75
Trimmer	2.0
MACHINE TOOLS	
Auxiliary and Traverse Drive	1.0
Bending Roll, Notching Press, Punch, Press, Planer, Plate Reversing	1.75
Main Drive	1.5
METAL ROLLING MILLS	
Coilers (Up or Down) Cold Mill Only	1.75
Coilers (Up or Down) Hot Mill Only	2.25
Coke Plants	
Pusher Ram Drive	2.75
Door Opener	2.25
Pusher or Larry Car Traction Drive	3.25
Continuous Caster	2.0
Cold Mills	
Strip Mills	Refer to Factory
Temper Mills	Refer to Factory
Cooling Beds	1.75
Drawbench	2.25
Feed Rolls - Blooming Mills	3.25
Furnace Pushers	2.25
Hot and Cold Saws	2.25
Hot Mills	
Strip or Sheet Mills	Refer to Factory
Reversing Blooming	Refer to Factory
Slabbing Mills	
Edger Drives	
Ingot Cars	2.25
Manipulators	3.25
Merchant Mills	Refer to Factory
Mill Tables	
Roughing Breakdown Mills	3.25
Hot Bed or Transfer (non-reversing)	1.75
Runout (reversing)	3.25
Runout (non-reversing, non-plugging)	2.25
Reel Drives	2.0
Rod Mills	Refer to Factory
Screwdown	2.25
Seamless Tube Mills	
Piercer	3.25

* For reversing applications with high inertia loads, please consult *Martin*.

Go-Flex® Service Factors (Cont'd)



Application	Factor
Thrust Block	2.25
Tube Conveyor Rolls	2.25
Reeler	2.25
Kick Out	2.25
Shear, Croppers	Refer to Factory
Sideguards	3.25
Skelp Mills	Refer to Factory
Slitters (Steel Mill only)	2.0
Soaking Pit Cover Drives	
Lift	1.25
Travel	2.25
Straighteners	2.25
Unscramblers (Billet Bundle Busters)	2.25
Wire Drawing Machinery	2.0
MIXERS (ALSO SEE AGITATORS)	
Concrete	1.75
Muller	1.5
OIL INDUSTRY	
Chiller	1.50
Oilwell Pumping (not over 150% peak torque)	2.5
Paraffin Filter Press	1.75
Rotary Kiln	2.5
PAPER MILLS	
Barker, Auxiliary, Hydraulic	2.5
Barker, Mechanical	2.5
Barker, Drum L.S. shaft of reducer with final drive-	
Helical or Herringbone Gear	2.5
Machined Spur Gear	3.0
Cast Tooth Spur Gear	3.0
Beater & Pulper	2.0
Bleachers, Coaters	1.5
Calendar & Super Calendar	2.0
Chipper	3.0
Converting Machine	1.5
Couch	2.0
Cutter, Felt Whipper	2.25
Cylinder, Dryer	2.0
Felt Stretcher	1.75
Fourdrinier	2.0
Jordan	2.5
Log Haul	2.5
Line Shaft	1.75
Press	2.0
Pulp Grinder	2.0
Reel, Rewinder, Winder	2.0
Stock Chest, Washer, Thickener	1.75

Application	Factor
Stock Pumps, Centrifugal	
Constant Speed	1.25
Frequent Speed Changes Under Load	1.5
Suction Roll	2.0
PRESS, PRINTING	1.5
PUG MILL	1.75
PULVERIZERS	
Hammermill and Hog	1.75
Roller	1.5
PUMPS CENTRIFUGAL	
Constant Speed	1.0
Frequent Speed Changes Under Load	1.75
Descaling, with Accumulators	1.75
Gear, Rotary, or Vane	1.75
PUMPS RECIPROCATING	
1 Cyl., single or double acting	3.0
2 Cyl., single acting	2.5
2 Cyl., double acting	2.0
3 or more cylinders	2.0
RUBBER INDUSTRY	
Calendar	2.25
Cracker, Plasticolour	2.5
Extruder	2.0
Tire & Tube Press Opener (peak torque)	1.5
Warming Mill	
One or two mills in line	2.0
Three or more mills in line	2.5
Washer	2.75
SCREENS	
Air Washing	1.5
Grizzly	2.5
Rotary Coal or Sand	2.0
Vibrating	2.5
Water	1.5
SEWAGE DISPOSAL EQUIPMENT	
Bar Screen, Chemical Feeders, Collectors,	
Dewatering Screen, Grit Collector	1.5
Mill Stands, Turbine Driven with all Helical or Herringbone Gears	1.75
Electric Drive or Steam Engine Drive with Helical or Herringbone	2.0
STOKER	1.0
SUGAR INDUSTRY	
Cone Carrier and Leveler	2.25
Cane Knife and Crusher	2.5
Mill Stands, Turbine Driver with all helical or Herringbone Gears	1.75

Application	Factor
Electric Drive or Steam Engine Drive with helical, Herringbone, or Spur Gears with any Prime Mover	2.0
TEXTILE INDUSTRY	
Batcher	1.5
Calendar, Card Machine	1.75
Cloth Finishing Machine	1.75
Dry Can, Loom	1.75
Dyeing Machinery	1.5
Knitting Machine	Refer to Factory
Mangle, Napper, Soaper	1.5
Spinner, Tenter Frame, Winder	1.75
TUMBLING BARREL	2.0
WINCH, MANEUVERING - DREDGE, MARINE	1.5
WINDLASS	1.5

Engine Service Factors

Service Factors for engine drives are those required for applications where good flywheel regulation prevents torque fluctuation greater than 20%. For drives where torque fluctuations are greater or where the operation is near a serious critical or torsional vibration, a mass elastic study is necessary.

To determine an engine drive service factor, first determine the application service factor for motors. Then, use that to find the correct engine service factor in the table below. When the application service factor for motors is greater than 2.0 or where 1, 2, or 3 cylinder engines are involved, please contact customer service with complete application details for engineering review.

Application Service Factor	Engine Factor	
	4 to 5 Cylinders	6+ Cylinders
1.0	2.0	1.5
1.25	2.25	1.75
1.5	2.5	2.0
1.75	2.75	2.25
2.0	3.0	2.5

* For reversing applications with high inertia loads, please consult *Martin*.

A = Little to No Effect

Acetaldehyde	C
Acetamide	N
Acetic Acid	C
Acetic Anhydride	C
Acetone	C
Acetyl Bromide	C
Acetyl Chloride	C
Acetylene	C
Adipic Acid	A
Aero Shell Grease	B
Aero Lubriplate	A
Aero Safe 2300	N
Aerocene 50	N
Aluminum Acetate	N
Aluminum Bromide	N
Aluminum Chloride	B
Aluminum Sulfate	B
Ammonia	B
Ammonium Carbonate	B
Ammonium Chloride	N
Ammonium Hydroxide	B
Ammonium Nitrate	B
Ammonium Persulfate	B
Ammonium Sulfate	B
Ammonium Sulfide	B
Ammonium Thiocyanate	B
Ammonium Acetate	C
Amyl Acetate	C
Amyl Alcohol	C
Aniline	C
Aniline Hydrochloride	C
Animal Fats & Oils	B
Antimony Salts	B
Aqua Regia	C
Arsenic Salts	B
ASTM Oil #1	A
ASTM Oil #2	B
ASTM Oil #3	B
ASTM Reference Fuel	A
ASTM Reference Fuel	B
Atlantic Oil	A
Barium Carbonate	B
Barium Hydroxide	A
Beer	A
Benzaldehyde	B
Benzene	C
Benzoic Acid	B
Black Sulphate Liquors	N
Bleach Solutions	N
Boric Acid	A

B = Minor to Moderate Effect

Brake Fluid	N
Bromine	B
Bunker Oil	A
Butane	A
Butyl Acetate	C
Butyl Alcohol	B
Calcium Carbonate	B
Calcium Chloride	A
Calcium Hydroxide	A
Calcium Nitrate	B
Calcium Sulfate	B
Carbon Dioxide	A
Carbon Disulfide	B
Carbon Monoxide	A
Carbon Tetrachloride	C
Chlorine	N
Chloroacetic Acid	C
Chloroform	C
Chromic Acid	C
Chromium Potassium Sulfate	B
Citric Acid	B
Corn Oil	A
Cottonseed Oil	A
Cresol	C
Crude Oil	B
Cupric Chloride	A
Cupric Nitrate	B
Cupric Sulfate	B
Cutting Oil	B
Cyclohexane	B
Cyclohexanone	C
Dibutyl Phthalate	C
Dichlorobenzene	C
Diesel Fuel	B
Diester Oil	B
Dimethyl Acetamide	C
Dimethyl Formamide	C
Dodecyl Mercaptan	B
DTE Oil	B
Dibutyl Ether	B
EP Lubes	A
Esso #90 Lube Oil	A
Ether	B
Ethyl Acetate	C
Ethyl Alcohol (Ethanol)	C
Formic Acid	C
Freon, 12 or 113	A
Fuel Oil	B
Gasoline	B
Glucose	A

C = Severe Effect to Destruction

Glue	N
Glycerin	A
Heptane	A
Hexane	A
Hydrazine	C
Hydrobromic Acid	B
Hydrocarbon Oil	A
Hydrochloric Acid	B
Hydrofluoric Acid	B
Hydrogen	A
Hydrogen Peroxide	B
Hydrogen Sulfide	C
Hydrologic Acid	B
Iodine	A
Isobutyl Alcohol	N
Isopropyl Chloride	N
Isopropyl Ether	B
Isopropyl Alcohol (Propanol)	B
JP4 Oil	B
JP5 & 6 Oil	C
Kerosene	B
Lactic Acid	B
Lead Acetate	B
Linseed Oil	B
Liquefied Petroleum Gas	A
Lubrication Oil	B
Lye	N
Magnesium Chloride	N
Magnesium Hydroxide	A
Magnesium Salts	B
Malaic Acid	C
Mercury	B
Methyl Alcohol (methanol)	A
Methyl Ethyl Ketone	C
Methylene Chloride	C
MIL-D-5606 Oil	C
MIL-L-7808 Oil	B
Mineral Oil	A
Mineral Spirits	N
Naphthalene	B
Natural Gas	B
Nickel Salts	C
Oxygen	A
Ozone	A
Palmitic Acid	A
Paint Thinner	B
Peanut Oil	A
Perchloric Acid	C
Perchloroethylene	C
Petroleum	B

N = No Data; Test Prior to Use

Phenol (carbolic acid)	C
Phosphoric Acid	C
Potassium Cyanide	A
Potassium Salts	B
Propane	B
Propyl Alcohol	B
Propylene Glycol	B
Pydraul Oil	C
SAE #10 Oil	A
Seawater	A
Silicic Acid	B
Silver Nitrate	B
Skydrol Oil	C
Soap	B
Sodium Acetate	A
Sodium Bicarbonate	B
Sodium Borate	B
Sodium Carbonate	B
Sodium Chloride	B
Sodium Cyanide	B
Sodium Hydrosulfite	B
Sodium Hydroxide	B
Sodium Hypochlorite	C
Sodium Nitrate	B
Sodium Silicate	A
Sodium Sulfate	B
Sodium Sulfide	B
Steam	C
Styrene	B
Sulfur Dioxide	B
Sulfuric Acid	C
Tannic Acid	A
Tartaric Acid	A
Toluene	C
Transformer Oil	B
Turpentine	C
Urea	B
Varnish	B
Water	B

Go-Flex® Coupling Installation Instructions



Please follow the step by step installation instructions to properly install *Martin* Go-Flex® Couplings:

Required components:

2 Hubs

1 Insert

1 Cover with hardware: Identify what style cover you are using as this will determine the proper installation procedure.

There are three types of covers (Figure 1):

1. **Standard Cover (SD):** for coupling sizes GF10 through GF70 a standard snap ring secures cover in place.
2. **Horizontal Split Cover (XP):** It is a free floating cover that encapsulates the insert and the shoulder of both hubs. Each cover assembly comes with four socket head cap screws to secure the two halves together.
3. **Vertical Split Cover (VS):** GF20 through GF70 use eight bolts around the rim to secure the two halves together, GF80 through GF100 use 16 bolts with lock washers to secure the covers to one of the hubs.
4. **Horizontal/Vertical Split Cover (HS):** GF20 through GF70 use eight bolts around the rim to secure the 4 parts. together, GF80 through GF100 use 16 bolts with lock washers to secure the covers to one of the hubs.

Figure 1. *Martin* Go-Flex® covers and types



Installation Instructions:

1. Confirm bore sizes of each coupling half and the corresponding shaft diameter to ensure that you have the proper bore size.
2. Ensure that the shafts are clean and free from burrs.
3. Verify cover style:
 - When using a **Standard Duty Cover (SD)**, it should be located on the driven shaft. If space is limited, then it can be mounted on the drive shaft. Slide snap ring first, then **Standard Duty Cover (SD)** with larger opening facing the shaft separation.
 - When using an **Horizontal Split Cover (XP)**, proceed to step 4.
 - When using a **Vertical Split Cover (VS)**, Install one cover half on each shaft with flange side facing the shaft separation prior to installing the hubs.
 - If using a **Vertical Split Cover (VS)**, **GF70 or larger**, use bolts and washers to secure in place. Slide one bolt into place until installation is complete.
4. Installing the first hub: It should be mounted so that the end of the shaft is flush with surface “A” as shown in Figure 2. It is acceptable for the shaft to extend past “A” as long as it is not past the teeth shown as “B”.

Please note: Standard hubs are supplied with a clearance fit and should slide onto the shaft without excessive force. If the hubs have been ordered with interference fit (shrink fit), then heat the coupling halves to approximately 572°F (300°C) before installing on shafts.
5. With the insert in place, install the second hub. This will help establish set the hubs at the minimum hub gap (E min) dimension to ensure proper clearance. Please see Table 1 on the next page for specific E min and E max dimensions.
6. Now ensure both hubs are securely tightened to the shafts.
7. Check coupling for misalignment and align as necessary. Please refer to page C-63 *Martin* Big Catalog for misalignment tolerances.
8. Installation of cover:
 - **Standard Duty Cover (SD)**: slide the cover over hub and insert until the step in the cover contacts the shoulder of the hub. Use snap ring pliers to slide snap ring over hub and into snap ring groove in hub to hold the cover in place for GF10 through GF60. GF70 and above use the bolts and washer to secure the cover to the hub. Reference Table 2 for recommended tightening torque..
 - **Horizontal Split Cover (HP)**: place each half over the insert and shoulder on hubs. Secure the two housing halves together by using the included hardware set supplied. Reference Table 2 for recommended tightening torque.
 - **Vertical Split Cover (VS)**: slide the two cover halves over the hub and insert until faces meet. Install the radial outer bolts used to secure the two halves together. If cover uses a snap ring, use snap ring pliers to slide snap ring over hub and into snap ring groove in hub to hold the cover in place. For GF70 or larger, use bolts and washers to secure the cover to one hub. Reference Table 2 for recommended tightening torque.
 - **Horizontal/Vertical Split Cover (HS)**: place each part around the hub and Install the radial outer bolts used to secure the parts together. If cover uses a snap ring, use snap ring pliers to slide snap ring over hub and into snap ring groove in hub to hold the cover in place. For GF70 or larger, use bolts and washers to secure the cover to one hub. Reference Table 2 for recommended tightening torque.

Maximum RPM and Balance:

The *Martin* Go-Flex® Coupling inherently has good dynamic balance due to our manufacturing process. In high speed applications, it is important that the key used to attach hubs to shaft is the same length as the hub. The set screws should also be changed to full length to fill the hole. Please refer to Table 1 on the next page for maximum RPM ratings.

Go-Flex® Coupling Installation Instructions



Figure 2. Martin Go-Flex® shaft-to-hub alignment.
See page C-63 for Misalignment Tolerances.

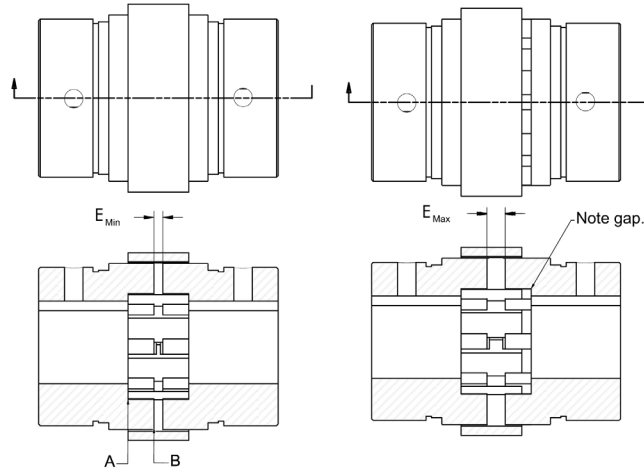


Table 1. EMIN and EMAX Dimensions

Coupling Series	Maximum RPM*	Standard Split Cover		Horizontal Split Cover		Vertical & Horizontal/Vertical Split Covers	
		EMIN	EMAX	EMIN	EMAX	EMIN	EMAX
GF10	4000	0.062	0.092	—	—	—	—
GF20	4000	0.036	0.110	0.036	0.220	0.036	0.126
GF30	4000	0.080	0.205	0.080	0.160	0.080	0.140
GF40	4000	0.035	0.208	0.035	0.160	0.035	0.220
GF50	4000	0.140	0.290	0.140	0.370	0.140	0.380
GF60	4000	0.188	0.208	0.188	0.368	0.188	0.348
GF70	3800	0.100	0.230	0.100	0.318	0.100	0.258
GF80	3400	0.125	0.250	0.204	0.375	0.204	0.375
GF90	3000	0.194	0.388	—	—	0.189	0.410
GF100	2400	0.241	0.278	—	—	0.242	0.454
GF110	2000	0.121	0.305	—	—	0.121	0.380
GF120	1800	0.158	0.505	—	—	0.147	0.492

For applications over 4000 RPM, consult *Martin*.

Table 2. Tightening Torque Chart

Coupling Size	Standard Split Cover	Horizontal Split Cover	Vertical & Horizontal/Vertical Split Covers	
	Cover Bolt Torque (in-lbs)	Cover Bolt Torque (in-lbs)	Cover Bolt Torque (in-lbs)	Cover Side Bolt Torque (in-lbs)
GF10	Snap Ring	-	-	-
GF20	Snap Ring	300	150	Snap Ring
GF30	Snap Ring	600	150	Snap Ring
GF40	Snap Ring	1000	775	Snap Ring
GF50	Snap Ring	1000	775	Snap Ring
GF60	Snap Ring	2500	775	Snap Ring
GF70	775	2500	775	775
GF80	775	2500	1300	775
GF90	775	-	1300	775
GF100	1300	-	1300	1300
GF110	1300	-	1300	1300
GF120	1300	-	1300	1300

BELT DRIVE

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MTO E	D-48
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AK / 2AK BORED-TO-SIZE	D-50 – D-51
AK-H / 2AK-H MST® BUSHED	D-52 – D-53
BK / 2BK BORED-TO-SIZE	D-54 – D-55
BK-H / 2BK-H MST® BUSHED	D-56 – D-57
VARIABLE PITCH SHEAVES	D-58 – D-62
1VP / 2 VP BORED-TO-SIZE	D-59 – D-60
VARIABLE PITCH SHEAVES INSTALLATION INSTRUCTIONS	D-61 – D-62
STOCK MST® HI-CAP® WEDGE & CONVENTIONAL	D-63 – D-96
MST® BUSHING SPECIFICATIONS	D-64
3V SECTION	D-65 – D-70
5V SECTION	D-71 – D-75
8V SECTION	D-76 – D-78
A-B COMBINATION GROOVE	D-79 – D-86
C SECTION	D-87 – D-96

Martin V-belt sheaves meet the toughest demands of industry, while continuing the *Martin* tradition of providing the utmost in service and maintaining unsurpassed manufacturing standards.

Totally committed to meeting the individual needs of customers, *Martin* Sprocket & Gear now serves the V-belt industry with extensive stock inventories, the capacity to meet large quantity requirements and the versatility to respond quickly to made-to-order applications.

Nomenclature

QD

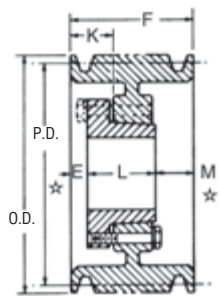
HI-CAP® WEDGE (Also Referred To As "Narrow")		CONVENTIONAL (Also Referred To As "Classical")	
2 3V 220 JA		12 D 580 P	
2	Number of Grooves	12	Number of Grooves
3V	Belt Cross Section	D	Belt Cross Section
220	2.2" Outside Diameter	580	58.0" Pitch Diameter
JA	Bushing Required	P	Bushing Required

Taper Bushed

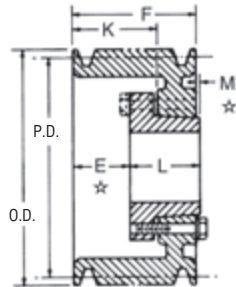
HI-CAP® WEDGE (Also Referred To As "Narrow")		CONVENTIONAL (Also Referred To As "Classical")	
10 8V 5300 TB		1 B 34 TB	
10	Number of Grooves	1	Number of Grooves
8V	Belt Cross Section	B	Belt Cross Section
5300	53.00" Outside Diameter	34	3.4" Pitch Diameter (B-Belt)
TB	Taper Bushing Required	TB	Taper Bushing Required

MST®

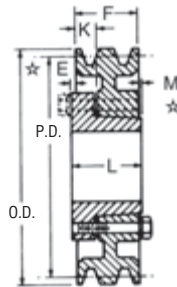
HI-CAP® WEDGE (Also Referred To As "Narrow")		CONVENTIONAL (Also Referred To As "Classical")	
6 5V 925 R		3 C 110 Q	
6	Number of Grooves	3	Number of Grooves
5V	Belt Cross Section	C	Belt Cross Section
925	9.25" Outside Diameter	110	11.0" Pitch Diameter (B-Belt)
R	Taper Bushing Required	TQ	Taper Bushing Required



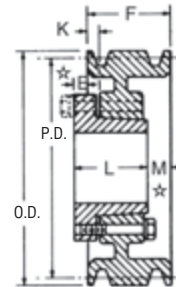
TYPE A



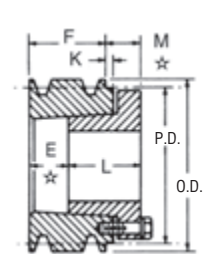
TYPE B



TYPE C



TYPE D



TYPE E

Dimensions for *Martin* sheaves are listed in the following tables with QD bushings in place. The type of sheave shown below is indicated by a letter, and the construction is indicated by a number, as shown on facing page.

QD Sheaves — 3V

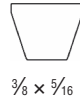
1 Groove*											2 Groove								
F = 1/16											F = 1/32								
Part Number	OD	PD 3V Belt	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush
1 3V 220 JA	2.20	2.15	E-1	JA	1/4	3/16	7/16	1/16	1/16	.7	2 3V 220 JA	E-1	JA	1/4	3/32	7/16	1/16	15/16	.9
1 3V 235 JA	2.35	2.30	E-1	JA	1/4	3/16	7/16	1/16	1/16	.8	2 3V 235 JA	E-1	JA	1/4	3/32	7/16	1/16	15/16	1.0
1 3V 250 JA	2.50	2.45	E-1	JA	1/4	3/16	7/16	1/16	1/16	.8	2 3V 250 JA	E-1	JA	1/4	3/32	7/16	1/16	15/16	1.2
1 3V 265 JA	2.65	2.60	C-1	JA	1/4	3/8	1/2	1/16	0	.9	2 3V 265 JA	D-1	JA	1/4	3/8	1/2	1/16	13/32	1.3
1 3V 280 JA	2.80	2.75	C-1	JA	1/4	3/8	1/2	1/16	0	.9	2 3V 280 JA	D-1	JA	1/4	3/8	1/2	1/16	13/32	1.4
1 3V 300 JA	3.00	2.95	C-1	JA	1/4	3/8	1/2	1/16	0	1.0	2 3V 300 JA	D-1	JA	1/4	3/8	1/2	1/16	13/32	1.6
1 3V 315 JA	3.15	3.10	C-1	JA	1/4	3/8	1/2	1/16	0	1.0	2 3V 315 JA	D-1	JA	1/4	3/8	1/2	1/16	13/32	1.8
1 3V 335 JA	3.35	3.30	C-1	JA	1/4	3/8	1/2	1/16	0	1.1	2 3V 335 SH	D-1	SH	1 1/16	3/4	3/4	1/16	13/64	2.0
1 3V 365 SH	3.65	3.60	D-1	SH	1 1/16	3/8	0	1 1/16	1/16	1.3	2 3V 365 SH	D-1	SH	1 1/16	3/4	3/4	1 1/16	13/64	2.4
1 3V 412 SH	4.12	4.07	D-1	SH	1 1/16	3/8	0	1 1/16	1/16	1.7	2 3V 412 SH	D-1	SH	1 1/16	3/2	3/2	1 1/16	1/16	2.7
1 3V 450 SH	4.50	4.45	D-2	SH	1 1/16	3/8	0	1 1/16	1/16	2.1	2 3V 450 SH	D-1	SH	1 1/16	1/4	5/16	1 1/16	1/2	2.9
1 3V 475 SH	4.75	4.70	D-2	SH	1 1/16	3/8	0	1 1/16	1/16	2.5	2 3V 475 SH	D-1	SH	1 1/16	1/4	3/16	1 1/16	1/2	3.1
1 3V 500 SH	5.00	4.95	D-2	SH	1 1/16	3/8	0	1 1/16	1/16	2.8	2 3V 500 SH	D-1	SH	1 1/16	1/4	3/16	1 1/16	1/2	3.6
1 3V 530 SH	5.30	5.25	D-2	SH	1 1/16	3/8	0	1 1/16	1/16	3.2	2 3V 530 SH	D-1	SH	1 1/16	1/4	5/16	1 1/16	1/2	4.5
1 3V 560 SH	5.60	5.55	D-2	SH	1 1/16	3/8	0	1 1/16	1/16	3.2	2 3V 560 SH	D-1	SH	1 1/16	1/4	3/16	1 1/16	1/2	5.0
1 3V 600 SH	6.00	5.95	D-2	SH	1 1/16	3/8	0	1 1/16	1/16	3.5	2 3V 600 SH	D-1	SH	1 1/16	1/4	5/16	1 1/16	1/2	5.5
1 3V 650 SH	6.50	6.45	D-3	SH	1 1/16	3/8	0	1 1/16	1/16	3.9	2 3V 650 SDS	D-3	SDS	2	3/16	3/16	1 1/16	1/2	5.8
1 3V 690 SH	6.90	6.85	D-3	SH	1 1/16	3/8	0	1 1/16	1/16	4.5	2 3V 690 SDS	D-3	SDS	2	3/16	3/16	1 1/16	1/2	6.6
1 3V 800 SDS	8.00	7.95	C-3	SDS	2	3/8	0	1 1/8	0	5.5	2 3V 800 SDS	D-3	SDS	2	5/16	5/16	1 1/16	1/2	7.0
1 3V 1060 SDS	10.60	10.55	C-3	SDS	2	3/8	0	1 1/8	0	8.0	2 3V 1060 SK	C-3	SK	2 3/8	7/16	1/4	1 1/16	13/32	10.0
1 3V 1400 SK	14.00	13.95	C-3	SK	2 3/8	1/16	0	1 1/16	0	13.5	2 3V 1400 SK	C-3	SK	2 3/8	7/16	1/4	1 1/16	13/32	16.0
1 3V 1900 SK	19.00	18.95	C-3	SK	2 3/8	1/16	0	1 1/16	0	17.0	2 3V 1900 SK	C-3	SK	2 3/8	7/16	1/4	1 1/16	13/32	25.0
	25.00	24.95									2 3V 2500 SF	C-3	SF	2 5/16	7/16	1/4	2 1/16	1/2	28.0

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.

* F = 3/8" for 1 3V 800 SDS and 1 3V 1060 SDS, F = 13/16" for 1 3V 1400 SK and 1 3V 1900 SK

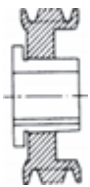
☆ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

3V Hi-Cap Wedge Stock QD Sheaves

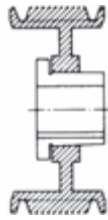


3/8 x 5/16

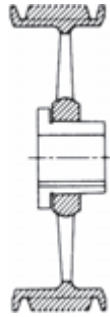
3V



1 = SOLID



2 = WEB



3 = ARM/SPOKE



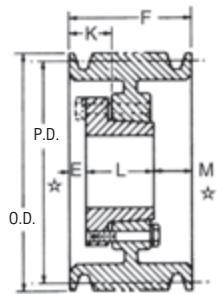
Let *Martin* quote your made to order and large quantity requirements.

QD Sheaves — 3V

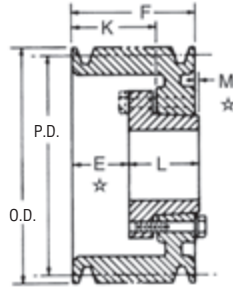
3 Groove F = 1 1/2											4 Groove F = 1 29/32									
Part Number	OD	PD 3V Belt	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush	
3 3V 250 JA	2.50	2.45	E-1	JA	1 1/4	1 3/8	7/16	1 1/16	1/16	1.6	4 3V 265 JA	D-1	JA	1 1/4	3/8	3/8	1 1/16	1 1/32	1.3	
3 3V 265 JA	2.65	2.60	D-1	JA	1 1/4	3/8	3/8	1 1/16	1/16	1.8	4 3V 280 JA	D-1	JA	1 1/4	3/8	3/8	1 1/16	1 1/32	1.6	
3 3V 280 JA	2.80	2.75	D-1	JA	1 1/4	3/8	3/8	1 1/16	1/16	2.0	4 3V 300 SH	E-1	SH	1 1/16	1 1/32	3/16	1 1/16	7/8	1.9	
3 3V 300 SH	3.00	2.95	E-1	SH	1 1/16	1 1/16	0	1 1/16	3/16	2.2	4 3V 315 SH	E-1	SH	1 1/16	1 1/32	3/16	1 1/16	3/8	2.2	
3 3V 315 SH	3.15	3.10	E-1	SH	1 1/16	1 1/16	3/16	1 1/16	3/16	2.5	4 3V 335 SH	D-1	SH	1 1/16	7/16	3/8	1 1/16	1 1/32	2.5	
3 3V 335 SH	3.35	3.30	D-1	SH	1 1/16	7/16	3/8	1 1/16	3/8	2.8	4 3V 365 SH	D-1	SH	1 1/16	7/16	3/8	1 1/16	1 1/32	2.8	
3 3V 365 SH	3.65	3.60	D-1	SH	1 1/16	7/16	3/8	1 1/16	3/8	3.0	4 3V 412 SH	A-1	SH	1 1/16	3/4	3/16	1 1/16	1/32	3.2	
3 3V 412 SH	4.12	4.07	A-1	SH	1 1/16	3/8	1 1/16	1 1/16	3/16	3.3	4 3V 450 SDS	A-1	SDS	2	3/16	3/16	1 1/8	1 1/32	3.5	
3 3V 450 SDS	4.50	4.45	A-1	SDS	2	3/16	3/16	1 1/8	3/16	3.5	4 3V 475 SDS	A-1	SDS	2	3/16	3/16	1 1/8	1 1/32	4.0	
3 3V 475 SDS	4.75	4.70	A-1	SDS	2	3/16	3/16	1 1/8	3/16	3.7	4 3V 500 SDS	A-1	SDS	2	3/16	3/16	1 1/8	1 1/32	4.5	
3 3V 500 SDS	5.00	4.95	A-1	SDS	2	3/16	3/16	1 1/8	3/16	4.0	4 3V 530 SDS	A-1	SDS	2	3/16	3/16	1 1/8	1 1/32	5.0	
3 3V 530 SDS	5.30	5.25	A-1	SDS	2	3/16	3/16	1 1/8	3/16	4.3	4 3V 560 SDS	A-1	SDS	2	3/16	3/16	1 1/8	1 1/32	5.7	
3 3V 560 SDS	5.60	5.55	A-1	SDS	2	3/16	3/16	1 1/8	3/16	4.9	4 3V 600 SK	D-1	SK	2 3/8	3/16	3/8	1 1/16	1/32	7.5	
3 3V 600 SDS	6.00	5.95	A-1	SDS	2	3/16	3/16	1 1/8	3/16	5.9	4 3V 650 SK	A-1	SK	2 3/8	3/16	3/8	1 1/16	1/32	8.0	
3 3V 650 SDS	6.50	6.45	A-3	SDS	2	3/16	3/16	1 1/8	3/16	6.3	4 3V 690 SK	A-1	SK	2 3/8	3/16	3/8	1 1/16	1/32	10.0	
3 3V 690 SDS	6.90	6.85	A-3	SDS	2	3/16	3/16	1 1/8	3/16	6.8	4 3V 800 SK	D-2	SK	2 3/8	3/16	3/8	1 1/16	1/32	12.0	
3 3V 800 SK	8.00	7.95	C-2	SK	2 3/8	3/16	3/4	1 1/16	0	10.6	4 3V 1060 SK	D-3	SK	2 3/8	3/16	3/8	1 1/16	1/32	16.0	
3 3V 1060 SK	10.60	10.55	C-3	SK	2 3/8	3/16	3/4	1 1/16	0	12.0	4 3V 1400 SK	D-3	SK	2 3/8	3/16	3/8	1 1/16	1/32	22.0	
3 3V 1400 SK	14.00	13.95	C-3	SK	2 3/8	3/16	3/4	1 1/16	0	20.0	4 3V 1900 SF	C-3	SF	2 3/16	3/16	3/8	2 1/16	3/32	37.0	
3 3V 1900 SF	19.00	18.95	C-3	SF	2 3/16	3/16	3/4	2 1/16	3/16	33.0	4 3V 2500 SF	C-3	SF	2 3/16	3/16	3/8	2 1/16	3/32	53.0	
3 3V 2500 SF	25.00	24.95	C-3	SF	2 3/16	3/16	3/4	2 1/16	3/16	45.0	4 3V 3350 E	C-3	E	3 1/2	3/8	3/8	2 3/8	1 1/32	80.0	
3 3V 3350 SF	33.50	33.45	C-3	SF	2 3/16	3/16	3/4	2 1/16	3/16	75.0										

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.

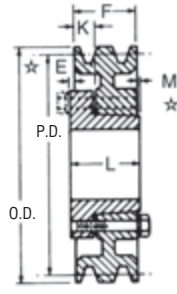
☆ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.



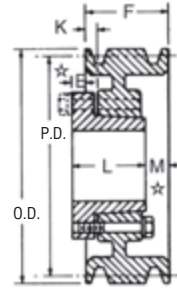
TYPE A



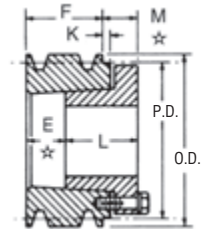
TYPE B



TYPE C



TYPE D



TYPE E

QD Sheaves — 3V

5 Groove F = 2 ⁵ / ₁₆											6 Groove F = 2 ²³ / ₃₂								
Part Number	OD	PD 3V Belt	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush
5 3V 475 SDS	4.75	4.70	A-2	SDS	2	3/16	13/16	1 1/8	3/4	4.5	6 3V 475 SK	D-1	SK	2 5/8	9/16	1/8	1 1/16	1 1/2	6.0
5 3V 500 SDS	5.00	4.95	A-2	SDS	2	3/16	13/16	1 1/8	3/4	5.3	6 3V 500 SK	D-1	SK	2 5/8	9/16	1/8	1 1/16	1 1/2	6.5
5 3V 530 SK	5.30	5.25	A-1	SK	2 1/2	1/4	15/16	1 1/8	1/2	5.8	6 3V 530 SK	A-1	SK	2 5/8	3/4	1 1/16	1 1/16	3/2	6.8
5 3V 560 SK	5.60	5.55	A-1	SK	2 3/4	1/4	15/16	1 1/8	1/2	7.0	6 3V 560 SK	A-1	SK	2 5/8	3/4	1 1/16	1 1/16	3/2	8.0
5 3V 600 SK	6.00	5.95	A-1	SK	2 3/4	1/4	15/16	1 1/8	1/2	8.3	6 3V 600 SK	A-1	SK	2 5/8	3/4	1 1/16	1 1/16	3/2	9.0
5 3V 650 SK	6.50	6.45	A-1	SK	2 3/4	1/4	15/16	1 1/8	1/2	9.0	6 3V 650 SK	A-2	SK	2 5/8	3/4	1 1/16	1 1/16	3/2	10.0
5 3V 690 SK	6.90	6.85	A-1	SK	2 3/4	1/4	15/16	1 1/8	1/2	12.0	6 3V 690 SK	A-2	SK	2 5/8	3/4	1 1/16	1 1/16	3/2	11.5
5 3V 800 SK	8.00	7.95	A-2	SK	2 3/4	1/4	15/16	1 1/8	1/2	13.0	6 3V 800 SK	A-2	SK	2 5/8	3/4	1 1/16	1 1/16	3/2	17.0
5 3V 1060 SK	10.60	10.55	A-3	SK	2 3/4	1/4	15/16	1 1/8	1/2	17.0	6 3V 1060 SF	A-2	SF	2 15/16	3/4	1 1/16	2 1/16	1 1/2	25.0
5 3V 1400 SF	14.00	13.95	A-3	SK	2 3/4	3/16	7/8	2 1/4	1/16	27.0	6 3V 1400 SF	A-3	SF	2 15/16	3/4	1 1/16	2 1/16	1 1/2	34.0
5 3V 1900 SF	19.00	18.95	A-3	SK	2 15/16	3/16	7/8	2 1/4	1/16	40.0	6 3V 1900 E	B-3	E	3 1/2	1/8	1	2 3/8	1 1/2	45.0
5 3V 2500 E	25.00	24.95	C-3	E	3 1/2	1/4	3/4	2 3/8	1/16	69.0	6 3V 2500 E	B-3	E	3 1/2	1/8	1	2 3/8	1 1/2	75.0
5 3V 3350 E	33.50	33.45	C-3	E	3 1/2	1/4	3/4	2 3/8	1/16	97.0	6 3V 3350 E	B-3	E	3 1/2	1/8	1	2 3/8	1 1/2	98.0

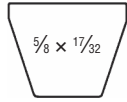
NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.
 ☆ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

QD Sheaves — 3V

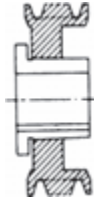
8 Groove F = 3 17/32											10 Groove F = 4 1/32								
Part Number	OD	PD 3V Belt	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush
8 3V 475 SK	4.75	4.70	D-1	SK	2 3/4	3/16	1/8	1 15/16	2 5/2	6.0	10 3V 475 SK	D-1	SK	2 5/8	9/16	1/8	1 1/16	2 3/2	7.0
8 3V 500 SK	5.00	4.95	D-1	SK	2 3/4	3/16	1/8	1 15/16	2 5/2	6.9	10 3V 500 SK	D-1	SK	2 5/8	9/16	1/8	1 1/16	2 3/2	8.6
8 3V 530 SK	5.30	5.25	A-1	SK	2 3/4	3/8	1 1/16	1 15/16	3 1/2	7.8	10 3V 530 SK	A-1	SK	2 5/8	3/4	1 1/16	1 1/16	1 1/2	9.0
8 3V 560 SK	5.60	5.55	A-1	SK	2 3/4	3/8	1 1/16	1 15/16	3 1/2	9.0	10 3V 560 SK	A-1	SK	2 5/8	3/4	1 1/16	1 1/16	1 1/2	10.0
8 3V 600 SK	6.00	5.95	A-1	SK	2 3/4	3/8	1 1/16	1 15/16	3 1/2	10.0	10 3V 600 SK	A-1	SK	2 5/8	3/4	1 1/16	1 1/16	1 1/2	11.0
8 3V 650 SK	6.50	6.45	A-2	SK	2 3/4	3/8	1 1/16	1 15/16	3 1/2	12.9	10 3V 650 SK	A-2	SK	2 5/8	3/4	1 1/16	1 1/16	1 1/2	14.0
8 3V 690 SK	6.90	6.85	A-2	SK	2 3/4	3/8	1 1/16	1 15/16	3 1/2	14.0	10 3V 690 SK	A-2	SK	2 5/8	3/4	1 1/16	1 1/16	1 1/2	16.0
8 3V 800 SF	8.00	7.95	A-1	SF	2 15/16	7/16	1 1/8	2 1/16	1 1/2	20.0	10 3V 800 SF	A-1	SF	2 15/16	7/16	1 1/8	2 1/16	1 1/2	22.0
8 3V 1060 SF	10.60	10.55	A-2	SF	2 15/16	7/16	1 1/8	2 1/16	1 1/2	28.0	10 3V 1060 E	A-2	E	3 1/2	3/8	1 1/4	2 3/8	1 1/2	33.0
8 3V 1400 E	14.00	13.95	A-3	E	3 1/2	3/8	1 1/4	2 3/8	1 1/2	40.0	10 3V 1400 E	A-3	E	3 1/2	3/8	1 1/4	2 3/8	1 1/2	43.0
8 3V 1900 E	19.00	18.95	A-3	E	3 1/2	3/8	1 1/4	2 3/8	1 1/2	62.0	10 3V 1900 E	A-3	E	3 1/2	3/8	1 1/4	2 3/8	1 1/2	66.0
8 3V 2500 E	25.00	24.95	A-3	E	3 1/2	3/8	1 1/4	2 3/8	1 1/2	87.0	10 3V 2500 F	A-3	F	3 15/16	7/16	1 1/8	3 3/8	3 1/2	98.0
8 3V 3350 F	33.50	33.45	B-3	F	3 15/16	7/16	1 1/8	3 3/8	3 1/2	152.0	10 3V 3350 F	A-3	F	3 15/16	7/16	1 1/8	3 3/8	3 1/2	178.0

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.
 ☆ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

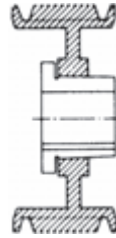
5V Hi-Cap Wedge Stock QD Sheaves



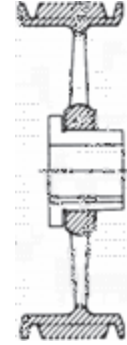
5V



1 = SOLID



2 = WEB

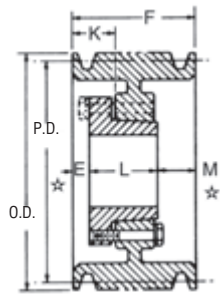


3 = ARM/SPOKE

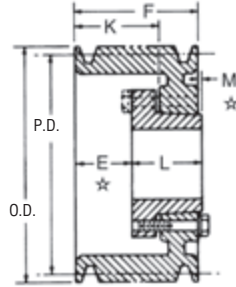
QD Sheaves — 5V

2 Groove F = 1 ¹¹ / ₁₆											3 Groove F = 2 ³ / ₈								
Part Number	OD	PD 5V Belt	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush
2 5V 440 SH	4.40	4.30	A-1	SH	1 ¹¹ / ₁₆	⁵ / ₁₆	³ / ₈	1 ¹ / ₁₆	¹ / ₁₆	4.0	3 5V 440 SDS	E-1	SDS	2	1 ¹ / ₁₆	0	1 ¹ / ₁₆	⁵ / ₁₆	5.5
2 5V 465 SDS	4.65	4.55	E-1	SDS	2	⁹ / ₁₆	0	1 ¹ / ₁₆	³ / ₈	4.5	3 5V 465 SDS	E-1	SDS	2	1 ¹ / ₁₆	0	1 ¹ / ₁₆	⁵ / ₁₆	6.5
2 5V 490 SDS	4.90	4.80	A-1	SDS	2	¹ / ₁₆	¹ / ₁₆	1 ¹ / ₁₆	¹ / ₄	5.0	3 5V 490 SDS	A-1	SDS	2	¹ / ₁₆	1 ¹ / ₁₆	1 ¹ / ₁₆	¹ / ₁₆	7.0
2 5V 520 SDS	5.20	5.10	A-1	SDS	2	¹ / ₁₆	¹ / ₁₆	1 ¹ / ₁₆	¹ / ₄	5.5	3 5V 520 SDS	A-1	SDS	2	¹ / ₁₆	1 ¹ / ₁₆	1 ¹ / ₁₆	¹ / ₁₆	7.5
2 5V 550 SDS	5.50	5.40	A-1	SDS	2	¹ / ₁₆	¹ / ₁₆	1 ¹ / ₁₆	¹ / ₄	6.0	3 5V 550 SDS	A-1	SDS	2	¹ / ₁₆	1 ¹ / ₁₆	1 ¹ / ₁₆	¹ / ₁₆	8.0
2 5V 590 SDS	5.90	5.80	A-1	SDS	2	¹ / ₁₆	¹ / ₁₆	1 ¹ / ₁₆	¹ / ₄	7.0	3 5V 590 SDS	A-1	SDS	2	¹ / ₁₆	1 ¹ / ₁₆	1 ¹ / ₁₆	¹ / ₁₆	8.5
2 5V 630 SK	6.30	6.20	C-1	SK	2 ³ / ₈	¹ / ₄	³ / ₈	1 ¹ / ₁₆	0	8.0	3 5V 630 SK	A-1	SK	2 ³ / ₈	³ / ₈	1 ¹ / ₁₆	1 ¹ / ₁₆	¹ / ₁₆	11.0
2 5V 670 SK	6.70	6.60	C-1	SK	2 ³ / ₈	¹ / ₄	³ / ₈	1 ¹ / ₁₆	0	10.0	3 5V 670 SK	A-1	SK	2 ³ / ₈	³ / ₈	1 ¹ / ₁₆	1 ¹ / ₁₆	¹ / ₁₆	11.5
2 5V 710 SK	7.10	7.00	C-1	SK	2 ³ / ₈	¹ / ₄	³ / ₈	1 ¹ / ₁₆	0	11.0	3 5V 710 SF	A-1	SF	2 ³ / ₈	⁵ / ₁₆	1	2 ³ / ₈	0	13.0
2 5V 750 SK	7.50	7.40	C-1	SK	2 ³ / ₈	¹ / ₄	³ / ₈	1 ¹ / ₁₆	0	13.0	3 5V 750 SF	A-1	SF	2 ³ / ₈	⁵ / ₁₆	1	2 ³ / ₈	0	14.0
2 5V 800 SK	8.00	7.90	C-1	SK	2 ³ / ₈	¹ / ₄	³ / ₈	1 ¹ / ₁₆	0	14.0	3 5V 800 SF	A-1	SF	2 ³ / ₈	⁵ / ₁₆	1	2 ³ / ₈	0	15.0
2 5V 850 SK	8.50	8.40	C-1	SK	2 ³ / ₈	¹ / ₄	³ / ₈	1 ¹ / ₁₆	0	15.0	3 5V 850 SF	A-1	SF	2 ³ / ₈	⁵ / ₁₆	1	2 ³ / ₈	0	16.0
2 5V 900 SK	9.00	8.90	C-2	SK	2 ³ / ₈	¹ / ₄	³ / ₈	1 ¹ / ₁₆	0	16.0	3 5V 900 SF	A-2	SF	2 ³ / ₈	⁵ / ₁₆	1	2 ³ / ₈	0	17.0
2 5V 925 SK	9.25	9.15	C-2	SK	2 ³ / ₈	¹ / ₄	³ / ₈	1 ¹ / ₁₆	0	16.5	3 5V 925 SF	A-2	SF	2 ³ / ₈	⁵ / ₁₆	1	2 ³ / ₈	0	18.0
2 5V 975 SK	9.75	9.65	C-3	SK	2 ³ / ₈	¹ / ₄	³ / ₈	1 ¹ / ₁₆	0	17.0	3 5V 975 SF	A-2	SF	2 ³ / ₈	⁵ / ₁₆	1	2 ³ / ₈	0	19.0
2 5V 1030 SK	10.30	10.20	C-3	SK	2 ³ / ₈	¹ / ₄	³ / ₈	1 ¹ / ₁₆	0	18.0	3 5V 1030 SF	A-2	SF	2 ³ / ₈	⁵ / ₁₆	1	2 ³ / ₈	0	22.0
2 5V 1090 SK	10.90	10.80	C-3	SK	2 ³ / ₈	¹ / ₄	³ / ₈	1 ¹ / ₁₆	0	19.0	3 5V 1090 SF	A-2	SF	2 ³ / ₈	⁵ / ₁₆	1	2 ³ / ₈	0	25.0
2 5V 1130 SK	11.30	11.20	C-3	SK	2 ³ / ₈	¹ / ₄	³ / ₈	1 ¹ / ₁₆	0	19.5	3 5V 1130 SF	A-2	SF	2 ³ / ₈	⁵ / ₁₆	1	2 ³ / ₈	0	25.0
2 5V 1180 SK	11.80	11.70	C-3	SK	2 ³ / ₈	¹ / ₄	³ / ₈	1 ¹ / ₁₆	0	20.0	3 5V 1180 SF	A-2	SF	2 ³ / ₈	⁵ / ₁₆	1	2 ³ / ₈	0	29.0
2 5V 1250 SF	12.50	12.40	C-3	SF	2 ³ / ₈	¹ / ₄	³ / ₈	2 ³ / ₈	¹ / ₈	25.0	3 5V 1250 E	C-2	E	3 ¹ / ₂	¹ / ₈	³ / ₄	2 ³ / ₈	¹ / ₈	32.0
2 5V 1320 SF	13.20	13.10	C-3	SF	2 ³ / ₈	¹ / ₄	³ / ₈	2 ³ / ₈	¹ / ₈	27.0	3 5V 1320 E	C-3	E	3 ¹ / ₂	¹ / ₈	³ / ₄	2 ³ / ₈	¹ / ₈	38.0
2 5V 1400 SF	14.00	13.90	C-3	SF	2 ³ / ₈	¹ / ₄	³ / ₈	2 ³ / ₈	¹ / ₈	28.0	3 5V 1400 E	C-3	E	3 ¹ / ₂	¹ / ₈	³ / ₄	2 ³ / ₈	¹ / ₈	43.0
2 5V 1500 SF	15.00	14.90	C-3	SF	2 ³ / ₈	¹ / ₄	³ / ₈	2 ³ / ₈	¹ / ₈	30.0	3 5V 1500 E	C-3	E	3 ¹ / ₂	¹ / ₈	³ / ₄	2 ³ / ₈	¹ / ₈	44.0
2 5V 1600 SF	16.00	15.90	C-3	SF	2 ³ / ₈	¹ / ₄	³ / ₈	2 ³ / ₈	¹ / ₈	34.0	3 5V 1600 E	C-3	E	3 ¹ / ₂	¹ / ₈	³ / ₄	2 ³ / ₈	¹ / ₈	46.0
2 5V 1870 SF	18.70	18.60	C-3	SF	2 ³ / ₈	¹ / ₄	³ / ₈	2 ³ / ₈	¹ / ₈	49.0	3 5V 1870 E	C-3	E	3 ¹ / ₂	¹ / ₈	³ / ₄	2 ³ / ₈	¹ / ₈	60.0
2 5V 2120 SF	21.20	21.10	C-3	SF	2 ³ / ₈	¹ / ₄	³ / ₈	2 ³ / ₈	¹ / ₈	50.0	3 5V 2120 E	C-3	E	3 ¹ / ₂	¹ / ₈	³ / ₄	2 ³ / ₈	¹ / ₈	68.0
2 5V 2360 E	23.60	23.50	C-3	E	3 ¹ / ₂	³ / ₈	¹ / ₄	2 ³ / ₈	³ / ₁₆	72.0	3 5V 2360 E	C-3	E	3 ¹ / ₂	¹ / ₈	³ / ₄	2 ³ / ₈	¹ / ₈	80.0
2 5V 2800 E	28.00	27.90	C-3	E	3 ¹ / ₂	³ / ₈	¹ / ₄	2 ³ / ₈	³ / ₁₆	80.0	3 5V 2800 E	C-3	E	3 ¹ / ₂	¹ / ₈	³ / ₄	2 ³ / ₈	¹ / ₈	92.0
	31.50	31.40									3 5V 3150 F	C-3	F	3 ¹ / ₂	¹ / ₈	³ / ₄	3 ¹ / ₈	¹ / ₁₆	136.0
	37.50	37.40									3 5V 3750 F	C-3	F	3 ¹ / ₂	¹ / ₈	³ / ₄	3 ¹ / ₈	¹ / ₁₆	156.0
	50.00	49.90									3 5V 5000 F	C-3	F	3 ¹ / ₂	¹ / ₈	³ / ₄	3 ¹ / ₈	¹ / ₁₆	210.0

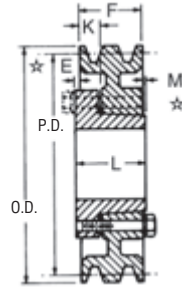
NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.
 ☆ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.



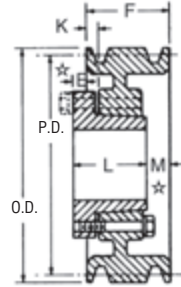
TYPE A



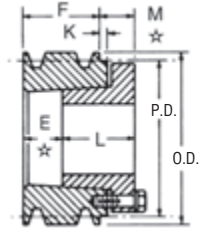
TYPE B



TYPE C



TYPE D



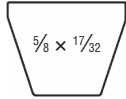
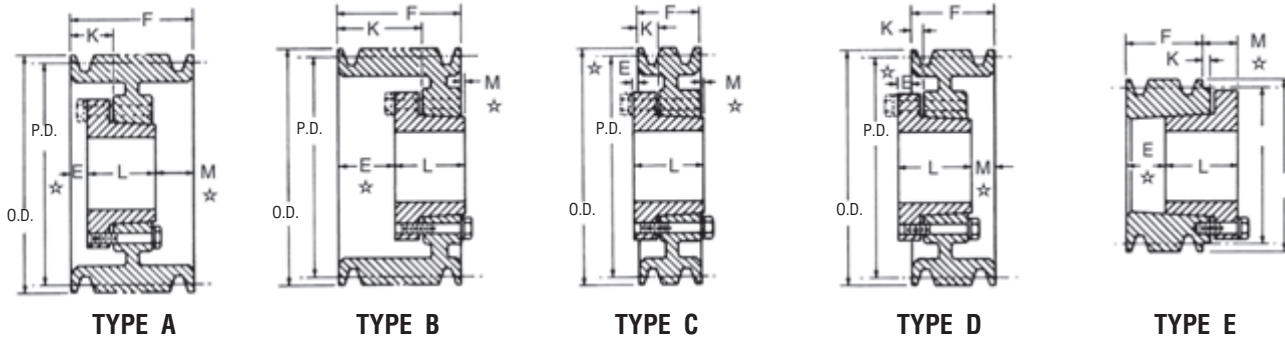
TYPE E

QD Sheaves — 5V

4 Groove F = 3 1/16											5 Groove F = 3/4								
Part Number	OD	PD 5V Belt	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush
4 5V 440 SD	4.40	4.30	E-1	SD	2	1 1/8	0	1 13/16	0	5.0	5 5V 440 SD	E-1	SD	2	2 5/16	0	1 1/16	0	6.0
4 5V 465 SD	4.65	4.55	E-1	SD	2	1 1/8	0	1 13/16	0	6.0	5 5V 465 SD	E-1	SD	2	2 5/16	1 1/16	1 1/16	0	7.0
4 5V 490 SD	4.90	4.80	A-1	SD	2	1 1/8	1 1/16	1 13/16	1 1/16	7.0	5 5V 490 SD	A-1	SD	2	1 1/8	1 1/16	1 1/16	1 1/16	8.0
4 5V 520 SD	5.20	5.10	A-1	SD	2	1 1/8	1 1/16	1 13/16	1 1/16	8.0	5 5V 520 SD	A-1	SD	2	1 1/8	1 1/16	1 1/16	1 1/4	9.0
4 5V 550 SD	5.50	5.40	A-1	SD	2	1 1/8	1 1/16	1 13/16	1 1/16	9.0	5 5V 550 SD	A-1	SD	2	1 1/8	1 1/16	1 1/16	1 1/4	10.0
4 5V 590 SD	5.90	5.80	A-1	SD	2	1 1/8	1 1/16	1 13/16	1 1/16	10.8	5 5V 590 SK	A-1	SK	2 1/2	1 1/8	1 1/16	1 1/16	1 1/16	11.0
4 5V 630 SK	6.30	6.20	A-1	SK	2 1/2	1 1/8	1 1/16	1 13/16	1 1/16	12.0	5 5V 630 SK	A-1	SK	2 1/2	1 1/8	1 1/16	1 1/16	1 1/16	12.0
4 5V 670 SK	6.70	6.60	A-1	SK	2 1/2	1 1/8	1 1/16	1 13/16	1 1/16	14.0	5 5V 670 SF	A-1	SF	2 1/2	1 1/8	1 1/16	2 1/16	1 1/16	13.0
4 5V 710 SF	7.10	7.00	A-1	SF	2 1/2	1 1/8	1 1/16	2 1/16	1 1/16	15.0	5 5V 710 SF	A-1	SF	2 1/2	1 1/8	1 1/16	2 1/16	1	14.0
4 5V 750 SF	7.50	7.40	A-1	SF	2 1/2	1 1/8	1 1/16	2 1/16	1 1/16	16.0	5 5V 750 SF	A-1	SF	2 1/2	1 1/8	1 1/16	2 1/16	1	16.0
4 5V 800 E	8.00	7.90	B-1	E	3 1/2	1 1/8	1 1/16	2 1/8	1 1/16	19.0	5 5V 800 E	A-1	E	3 1/2	1 1/8	1 1/16	2 1/8	1 1/16	19.0
4 5V 850 E	8.50	8.40	B-1	E	3 1/2	1 1/8	1 1/16	2 1/8	1 1/16	23.0	5 5V 850 E	A-1	E	3 1/2	1 1/8	1 1/16	2 1/8	1 1/16	22.0
4 5V 900 E	9.00	8.90	B-1	E	3 1/2	1 1/8	1 1/16	2 1/8	1 1/16	25.0	5 5V 900 E	A-1	E	3 1/2	1 1/8	1 1/16	2 1/8	1 1/16	26.0
4 5V 925 E	9.25	9.15	B-1	E	3 1/2	1 1/8	1 1/16	2 1/8	1 1/16	26.0	5 5V 925 E	A-1	E	3 1/2	1 1/8	1 1/16	2 1/8	1 1/16	28.0
4 5V 975 E	9.75	9.65	B-1	E	3 1/2	1 1/8	1 1/16	2 1/8	1 1/16	28.0	5 5V 975 E	A-1	E	3 1/2	1 1/8	1 1/16	2 1/8	1 1/16	30.0
4 5V 1030 E	10.30	10.20	B-1	E	3 1/2	1 1/8	1 1/16	2 1/8	1 1/16	30.0	5 5V 1030 E	A-1	E	3 1/2	1 1/8	1 1/16	2 1/8	1 1/16	33.0
4 5V 1090 E	10.90	10.80	B-2	E	3 1/2	1 1/8	1 1/16	2 1/8	1 1/16	39.0	5 5V 1090 E	A-1	E	3 1/2	1 1/8	1 1/16	2 1/8	1 1/16	41.0
4 5V 1130 E	11.30	11.20	B-2	E	3 1/2	1 1/8	1 1/16	2 1/8	1 1/16	40.0	5 5V 1130 E	A-1	E	3 1/2	1 1/8	1 1/16	2 1/8	1 1/16	42.0
4 5V 1180 E	11.80	11.70	B-2	E	3 1/2	1 1/8	1 1/16	2 1/8	1 1/16	41.0	5 5V 1180 E	A-1	E	3 1/2	1 1/8	1 1/16	2 1/8	1 1/16	44.0
4 5V 1250 E	12.50	12.40	B-3	E	3 1/2	1 1/8	1 1/16	2 1/8	1 1/16	43.0	5 5V 1250 E	A-3	E	3 1/2	1 1/8	1 1/16	2 1/8	1 1/16	45.0
4 5V 1320 E	13.20	13.10	B-3	E	3 1/2	1 1/8	1 1/16	2 1/8	1 1/16	45.0	5 5V 1320 E	A-3	E	3 1/2	1 1/8	1 1/16	2 1/8	1 1/16	46.0
4 5V 1400 E	14.00	13.90	B-3	E	3 1/2	1 1/8	1 1/16	2 1/8	1 1/16	46.0	5 5V 1400 E	A-3	E	3 1/2	1 1/8	1 1/16	2 1/8	1 1/16	47.0
4 5V 1500 E	15.00	14.90	B-3	E	3 1/2	1 1/8	1 1/16	2 1/8	1 1/16	47.0	5 5V 1500 E	A-3	E	3 1/2	1 1/8	1 1/16	2 1/8	1 1/16	53.0
4 5V 1600 E	16.00	15.90	B-3	E	3 1/2	1 1/8	1 1/16	2 1/8	1 1/16	49.0	5 5V 1600 E	A-3	E	3 1/2	1 1/8	1 1/16	2 1/8	1 1/16	56.0
4 5V 1870 E	18.70	18.60	A-3	E	3 1/2	1 1/8	1 1/16	2 1/8	1 1/16	71.0	5 5V 1870 F	B-3	F	3 3/16	1 1/8	1 1/16	3 3/16	3 3/16	96.0
4 5V 2120 E	21.20	21.10	A-3	E	3 1/2	1 1/8	1 1/16	2 1/8	1 1/16	72.0	5 5V 2120 F	B-3	F	3 3/16	1 1/8	1 1/16	3 3/16	3 3/16	98.0
4 5V 2360 F	23.60	23.50	C-3	F	3 3/16	1 1/8	1 1/16	3 3/16	1 1/16	111.0	5 5V 2360 F	B-3	F	3 3/16	1 1/8	1 1/16	3 3/16	3 3/16	120.0
4 5V 2800 F	28.00	27.90	C-3	F	3 3/16	1 1/8	1 1/16	3 3/16	1 1/16	118.0	5 5V 2800 F	B-3	F	3 3/16	1 1/8	1 1/16	3 3/16	3 3/16	135.0
4 5V 3150 F	31.50	31.40	C-3	F	3 3/16	1 1/8	1 1/16	3 3/16	1 1/16	146.7	5 5V 3150 J	C-3	J	4 1/2	1 1/8	1 1/16	4 1/2	1 1/16	188.0
4 5V 3750 F	37.50	37.40	C-3	F	3 3/16	1 1/8	1 1/16	3 3/16	1 1/16	178.0	5 5V 3750 J	C-3	J	4 1/2	1 1/8	1 1/16	4 1/2	1 1/16	224.0
4 5V 5000 J	50.00	49.90	C-3	J	4 1/2	1 1/8	1 1/16	4 1/2	1 1/16	266.0	5 5V 5000 J	C-3	J	4 1/2	1 1/8	1 1/16	4 1/2	1 1/16	308.0

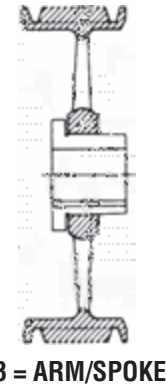
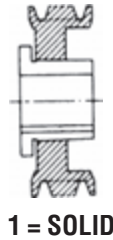
NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.
 ☆ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

5V Hi-Cap Wedge Stock QD Sheaves



5V

QD Sheaves — 5V



6 Groove F = 4 ⁷ / ₁₆											7 Groove F = 5 ¹ / ₈									
Part Number	OD	PD 5V Belt	Type	Bush	Bush Max. Bore	E *	K	L Length Thru Bore	M *	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E *	K	L Length Thru Bore	M *	Wt. Less Bush	
6 5V 440 SD	4.40	4.30	E-1	SD	2	3 ¹ / ₄	0	1 ¹ / ₁₆	5 ¹ / ₁₆	7.0										
6 5V 465 SD	4.65	4.55	E-1	SD	2	3 ¹ / ₄	0	1 ¹ / ₁₆	5 ¹ / ₁₆	7.8										
6 5V 490 SD	4.90	4.80	A-1	SD	2	1 ¹ / ₁₆	1 ¹ / ₁₆	1 ¹ / ₁₆	1 ¹ / ₁₆	9.0										
6 5V 520 SD	5.20	5.10	A-1	SD	2	1 ¹ / ₁₆	1 ¹ / ₁₆	1 ¹ / ₁₆	1 ¹ / ₁₆	10.8										
6 5V 550 SD	5.50	5.40	A-1	SD	2	1 ¹ / ₁₆	1 ¹ / ₁₆	1 ¹ / ₁₆	1 ¹ / ₁₆	11.3										
6 5V 590 SK	5.90	5.80	A-1	SK	2 ¹ / ₁₆	5 ¹ / ₁₆	1 ¹ / ₁₆	1 ¹ / ₁₆	1 ¹ / ₁₆	12.0										
6 5V 630 SK	6.30	6.20	A-1	SK	2 ¹ / ₁₆	5 ¹ / ₁₆	1 ¹ / ₁₆	1 ¹ / ₁₆	1 ¹ / ₁₆	13.0										
6 5V 670 SF	6.70	6.60	A-1	SF	2 ¹ / ₁₆	5 ¹ / ₁₆	1 ¹ / ₁₆	2 ¹ / ₁₆	1 ¹ / ₁₆	14.0										
6 5V 710 SF	7.10	7.00	A-1	SF	2 ¹ / ₁₆	5 ¹ / ₁₆	1 ¹ / ₁₆	2 ¹ / ₁₆	1 ¹ / ₁₆	15.0	7 5V 710 SF	A-1	SF	2 ¹ / ₁₆	1 ¹ / ₁₆	1 ¹ / ₁₆	2 ¹ / ₁₆	2 ¹ / ₁₆	17.0	
6 5V 750 SF	7.50	7.40	A-1	SF	2 ¹ / ₁₆	5 ¹ / ₁₆	1 ¹ / ₁₆	2 ¹ / ₁₆	1 ¹ / ₁₆	17.0	7 5V 750 SF	A-1	SF	2 ¹ / ₁₆	1 ¹ / ₁₆	1 ¹ / ₁₆	2 ¹ / ₁₆	2 ¹ / ₁₆	19.0	
6 5V 800 E	8.00	7.90	A-1	E	3 ¹ / ₂	1 ¹ / ₂	2	2 ¹ / ₈	1 ¹ / ₈	20.0	7 5V 800 E	A-1	E	3 ¹ / ₂	1 ¹ / ₂	2	2 ¹ / ₈	1 ¹ / ₈	22.0	
6 5V 850 E	8.50	8.40	A-1	E	3 ¹ / ₂	1 ¹ / ₂	2	2 ¹ / ₈	1 ¹ / ₈	25.0	7 5V 850 E	A-1	E	3 ¹ / ₂	1 ¹ / ₂	2	2 ¹ / ₈	1 ¹ / ₈	26.0	
6 5V 900 E	9.00	8.90	A-1	E	3 ¹ / ₂	1 ¹ / ₂	2	2 ¹ / ₈	1 ¹ / ₈	28.0	7 5V 900 E	A-1	E	3 ¹ / ₂	1 ¹ / ₂	2	2 ¹ / ₈	1 ¹ / ₈	29.0	
6 5V 925 E	9.25	9.15	A-1	E	3 ¹ / ₂	1 ¹ / ₂	2	2 ¹ / ₈	1 ¹ / ₈	29.0	7 5V 925 E	A-1	E	3 ¹ / ₂	1 ¹ / ₂	2	2 ¹ / ₈	1 ¹ / ₈	33.0	
6 5V 975 E	9.75	9.65	A-1	E	3 ¹ / ₂	1 ¹ / ₂	2	2 ¹ / ₈	1 ¹ / ₈	31.0	7 5V 975 E	A-1	E	3 ¹ / ₂	1 ¹ / ₂	2	2 ¹ / ₈	1 ¹ / ₈	37.0	
6 5V 1030 F	10.30	10.20	A-1	E	3 ¹ / ₂	1 ¹ / ₂	2	2 ¹ / ₈	1 ¹ / ₈	33.0	7 5V 1030 F	B-1	F	3 ¹ / ₁₆	1 ¹ / ₈	2 ¹ / ₈	3 ¹ / ₈	1 ¹ / ₈	49.0	
6 5V 1090 E	10.90	10.80	A-1	E	3 ¹ / ₂	1 ¹ / ₂	2	2 ¹ / ₈	1 ¹ / ₈	38.0	7 5V 1090 F	B-1	F	3 ¹ / ₁₆	1 ¹ / ₈	2 ¹ / ₈	3 ¹ / ₈	1 ¹ / ₈	56.0	
6 5V 1130 E	11.30	11.20	A-1	E	3 ¹ / ₂	1 ¹ / ₂	2	2 ¹ / ₈	1 ¹ / ₈	41.0	7 5V 1130 F	B-1	F	3 ¹ / ₁₆	1 ¹ / ₈	2 ¹ / ₈	3 ¹ / ₈	1 ¹ / ₈	61.0	
6 5V 1180 E	11.80	11.70	A-1	E	3 ¹ / ₂	1 ¹ / ₂	2	2 ¹ / ₈	1 ¹ / ₈	43.0	7 5V 1180 F	B-2	F	3 ¹ / ₁₆	1 ¹ / ₈	2 ¹ / ₈	3 ¹ / ₈	1 ¹ / ₈	56.0	
6 5V 1250 F	12.50	12.40	B-3	F	3 ¹ / ₁₆	1 ¹ / ₈	2 ¹ / ₁₆	3 ¹ / ₈	1 ¹ / ₄	45.0	7 5V 1250 F	B-3	F	3 ¹ / ₁₆	1 ¹ / ₈	2 ¹ / ₈	3 ¹ / ₈	1 ¹ / ₈	53.0	
6 5V 1320 F	13.20	13.10	B-3	F	3 ¹ / ₁₆	1 ¹ / ₈	2 ¹ / ₁₆	3 ¹ / ₈	1 ¹ / ₄	48.0	7 5V 1320 F	B-3	F	3 ¹ / ₁₆	1 ¹ / ₈	2 ¹ / ₈	3 ¹ / ₈	1 ¹ / ₈	52.0	
6 5V 1400 F	14.00	13.90	B-3	F	3 ¹ / ₁₆	1 ¹ / ₈	2 ¹ / ₁₆	3 ¹ / ₈	1 ¹ / ₄	59.0	7 5V 1400 F	B-3	F	3 ¹ / ₁₆	1 ¹ / ₈	2 ¹ / ₈	3 ¹ / ₈	1 ¹ / ₈	62.0	
6 5V 1500 F	15.00	14.90	B-3	F	3 ¹ / ₁₆	1 ¹ / ₈	2 ¹ / ₁₆	3 ¹ / ₈	1 ¹ / ₄	64.0	7 5V 1500 F	B-3	F	3 ¹ / ₁₆	1 ¹ / ₈	2 ¹ / ₈	3 ¹ / ₈	1 ¹ / ₈	67.0	
6 5V 1600 F	16.00	15.90	B-3	F	3 ¹ / ₁₆	1 ¹ / ₈	2 ¹ / ₁₆	3 ¹ / ₈	1 ¹ / ₄	68.0	7 5V 1600 F	B-3	F	3 ¹ / ₁₆	1 ¹ / ₈	2 ¹ / ₈	3 ¹ / ₈	1 ¹ / ₈	77.0	
6 5V 1870 F	18.70	18.60	A-3	F	3 ¹ / ₁₆	5 ¹ / ₁₆	1 ¹ / ₈	3 ¹ / ₈	1 ¹ / ₄	83.8	7 5V 1870 F	A-3	F	3 ¹ / ₁₆	5 ¹ / ₁₆	1 ¹ / ₈	3 ¹ / ₈	1 ¹ / ₈	99.0	
6 5V 2120 F	21.20	21.10	A-3	F	3 ¹ / ₁₆	5 ¹ / ₁₆	1 ¹ / ₈	3 ¹ / ₈	1 ¹ / ₄	110.0	7 5V 2120 J	C-3	J	4 ¹ / ₂	3 ¹ / ₈	1 ¹ / ₈	4 ¹ / ₈	7 ¹ / ₈	138.0	
6 5V 2360 J	23.60	23.50	B-3	J	4 ¹ / ₂	1 ¹ / ₈	1 ¹ / ₈	4 ¹ / ₈	3 ¹ / ₈	148.0	7 5V 2360 J	C-3	J	4 ¹ / ₂	3 ¹ / ₈	1 ¹ / ₈	4 ¹ / ₈	7 ¹ / ₈	174.0	
6 5V 2800 J	28.00	27.90	B-3	J	4 ¹ / ₂	1 ¹ / ₈	1 ¹ / ₈	4 ¹ / ₈	3 ¹ / ₈	169.0	7 5V 2800 J	C-3	J	4 ¹ / ₂	3 ¹ / ₈	1 ¹ / ₈	4 ¹ / ₈	7 ¹ / ₈	169.0	
6 5V 3150 J	31.50	31.40	B-3	J	4 ¹ / ₂	1 ¹ / ₈	1 ¹ / ₈	4 ¹ / ₈	3 ¹ / ₈	206.0	7 5V 3150 J	C-3	J	4 ¹ / ₂	3 ¹ / ₈	1 ¹ / ₈	4 ¹ / ₈	7 ¹ / ₈	241.0	
6 5V 3750 J	37.50	37.40	B-3	J	4 ¹ / ₂	1 ¹ / ₈	1 ¹ / ₈	4 ¹ / ₈	3 ¹ / ₈	241.0	7 5V 3750 M	C-3	M	5 ¹ / ₂	3 ¹ / ₈	1 ¹ / ₈	6 ¹ / ₈	2 ¹ / ₈	300.0	
6 5V 5000 M	50.00	49.90	C-3	M	5 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₂	6 ¹ / ₈	1 ¹ / ₄	388.0	7 5V 5000 M	C-3	M	5 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₂	6 ¹ / ₈	3 ¹ / ₈	408.0	

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.
 * E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

8V Hi-Cap Wedge Stock QD Sheaves



QD Sheaves — 8V

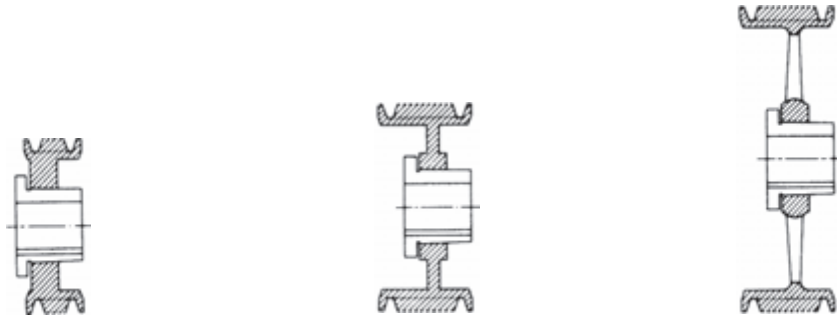
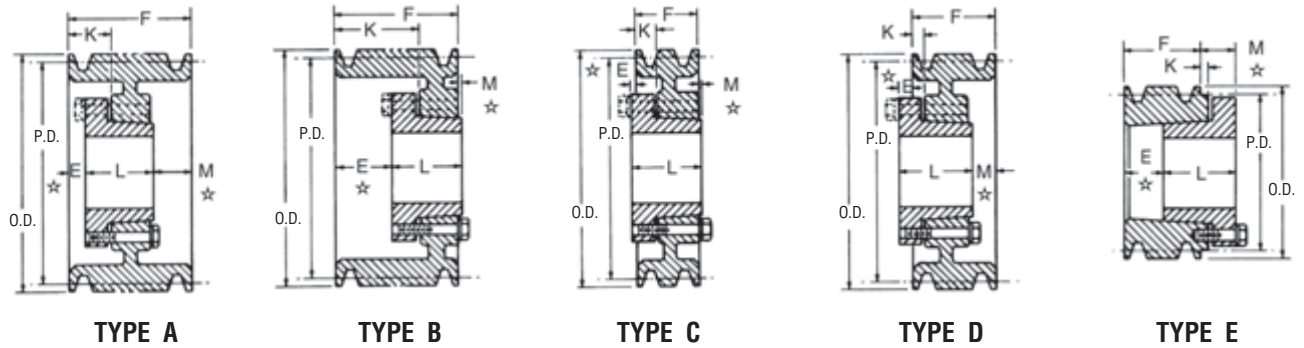
4 Groove											5 Groove										
F = 4 7/8											F = 6										
Part Number	OD	PD 8V Belt	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush		
4 8V 1250 F	12.50	12.30	A-1	F	3 3/16	3/16	1 1/8	3 3/8	1 1/8	63.0	5 8V 1250 F	A-1	F	3 3/16	1 1/8	2 3/8	3 3/8	1 1/8	68.0		
4 8V 1320 F	13.20	13.00	A-2	F	3 3/16	3/16	1 3/8	3 3/8	1 1/8	66.0	5 8V 1320 F	A-2	F	3 3/16	1 1/8	2 3/8	3 3/8	1 1/8	75.0		
4 8V 1400 F	14.00	13.80	A-2	F	3 3/16	3/16	1 3/8	3 3/8	1 1/8	70.0	5 8V 1400 F	A-2	F	3 3/16	1 1/8	2 3/8	3 3/8	1 1/8	78.0		
4 8V 1500 F	15.00	14.80	A-2	F	3 3/16	3/16	1 3/8	3 3/8	1 1/8	74.0	5 8V 1500 F	A-2	F	3 3/16	1 1/8	2 3/8	3 3/8	1 1/8	94.0		
4 8V 1600 F	16.00	15.80	A-2	F	3 3/16	3/16	1 3/8	3 3/8	1 1/8	82.0	5 8V 1600 F	A-2	F	3 3/16	1 1/8	2 3/8	3 3/8	1 1/8	101.0		
4 8V 1700 F	17.00	16.80	A-3	F	3 3/16	3/16	1 3/8	3 3/8	1 1/8	94.0	5 8V 1700 J	A-3	J	4 1/2	3/8	2	4 1/2	1 1/8	111.0		
4 8V 1800 F	18.00	17.80	A-3	F	3 3/16	3/16	1 3/8	3 3/8	1 1/8	99.0	5 8V 1800 J	A-3	J	4 1/2	3/8	2	4 1/2	1 1/8	130.0		
4 8V 1900 F	19.00	18.80	A-3	F	3 3/16	3/16	1 3/8	3 3/8	1 1/8	105.0	5 8V 1900 J	A-3	J	4 1/2	3/8	2	4 1/2	1 1/8	135.0		
4 8V 2000 J	20.00	19.80	A-3	J	4 1/2	3/8	1 3/8	4 1/2	3/8	141.0	5 8V 2000 J	A-3	J	4 1/2	3/8	2	4 1/2	1 1/8	152.0		
4 8V 2120 J	21.20	21.00	A-3	J	4 1/2	3/8	1 3/8	4 1/2	3/8	150.0	5 8V 2120 J	A-3	J	4 1/2	3/8	2	4 1/2	1 1/8	153.0		
4 8V 2240 J	22.40	22.20	A-3	J	4 1/2	3/8	1 3/8	4 1/2	3/8	177.0	5 8V 2240 M	B-3	M	5 1/2	3/8	1 1/2	6 1/2	1 1/8	223.0		
4 8V 2480 M	24.80	24.60	C-3	M	5 1/2	3/8	1 3/8	6 1/2	1 1/2	223.0	5 8V 2480 M	B-3	M	5 1/2	3/8	1 1/2	6 1/2	1 1/8	234.0		
4 8V 3000 M	30.00	29.80	C-3	M	5 1/2	3/8	1 3/8	6 1/2	1 1/2	285.0	5 8V 3000 M	B-3	M	5 1/2	3/8	1 1/2	6 1/2	1 1/8	294.0		
4 8V 3550 M	35.50	35.30	C-3	M	5 1/2	3/8	1 3/8	6 1/2	1 1/2	305.0	5 8V 3550 M	B-3	M	5 1/2	3/8	1 1/2	6 1/2	1 1/8	325.0		
4 8V 4000 M	40.00	39.80	C-3	M	5 1/2	3/8	1 3/8	6 1/2	1 1/2	355.0	5 8V 4000 M	B-3	M	5 1/2	3/8	1 1/2	6 1/2	1 1/8	430.0		
4 8V 4450 M	44.50	44.30	C-3	M	5 1/2	3/8	1 3/8	6 1/2	1 1/2	369.0	5 8V 4450 N	C-3	N	6	3/8	1 1/2	8 1/2	1 1/8	485.0		
4 8V 5300 M	53.00	52.80	C-3	M	5 1/2	3/8	1 3/8	6 1/2	1 1/2	478.0	5 8V 5300 N	C-3	N	6	3/8	1 1/2	8 1/2	1 1/8	672.0		

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.
 ☆ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

QD Sheaves — 8V

6 Groove											8 Groove										
F = 7 1/8											F = 9 3/8										
Part Number	OD	PD 8V Belt	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush		
6 8V 1250 F	12.50	12.30	A-1	F	3 3/16	1 1/8	2 3/8	3 3/8	2 3/8	86.0	8 8V 1250 J	A-1	J	4 1/2	2 3/8	3 3/8	4 1/2	2 1/2	108.0		
6 8V 1320 F	13.20	13.00	A-1	F	3 3/16	1 1/8	2 3/8	3 3/8	2 3/8	94.0	8 8V 1320 J	A-1	J	4 1/2	2 3/8	3 3/8	4 1/2	2 1/2	118.0		
6 8V 1400 F	14.00	13.80	A-1	F	3 3/16	1 1/8	2 3/8	3 3/8	2 3/8	108.0	8 8V 1400 J	A-1	J	4 1/2	2 3/8	3 3/8	4 1/2	2 1/2	131.0		
6 8V 1500 J	15.00	14.80	A-1	J	4 1/2	1 1/2	2 3/8	4 1/2	1 1/2	138.0	8 8V 1500 J	A-1	J	4 1/2	2 3/8	3 3/8	4 1/2	2 1/2	151.0		
6 8V 1600 J	16.00	15.80	A-1	J	4 1/2	1 1/2	2 3/8	4 1/2	1 1/2	142.0	8 8V 1600 J	A-1	J	4 1/2	2 3/8	3 3/8	4 1/2	2 1/2	155.0		
6 8V 1700 J	17.00	16.80	A-2	J	4 1/2	1 1/2	2 3/8	4 1/2	1 1/2	144.0	8 8V 1700 M	A-2	M	5 1/2	2 1/2	3 3/8	6 1/2	3/8	188.0		
6 8V 1800 J	18.00	17.80	A-2	J	4 1/2	1 1/2	2 3/8	4 1/2	1 1/2	160.0	8 8V 1800 M	A-2	M	5 1/2	2 1/2	3 3/8	6 1/2	3/8	202.0		
6 8V 1900 J	19.00	18.80	A-2	J	4 1/2	1 1/2	2 3/8	4 1/2	1 1/2	172.0	8 8V 1900 M	A-2	M	5 1/2	2 1/2	3 3/8	6 1/2	3/8	221.0		
6 8V 2000 M	20.00	19.80	B-2	M	5 1/2	1 1/2	2 3/8	6 1/2	1 1/2	204.0	8 8V 2000 M	A-2	M	5 1/2	2 1/2	3 3/8	6 1/2	3/8	236.0		
6 8V 2120 M	21.20	21.00	B-2	M	5 1/2	1 1/2	2 3/8	6 1/2	1 1/2	226.0	8 8V 2120 M	A-2	M	5 1/2	2 1/2	3 3/8	6 1/2	3/8	267.0		
6 8V 2240 M	22.40	22.20	B-3	M	5 1/2	1 1/2	2 3/8	6 1/2	1 1/2	235.0	8 8V 2240 M	A-3	M	5 1/2	2 1/2	3 3/8	6 1/2	3/8	284.0		
6 8V 2480 M	24.80	24.60	B-3	M	5 1/2	3/8	1 3/8	6 1/2	3/8	246.0	8 8V 2480 N	A-2	N	6	1/2	2 1/2	8 1/2	3/8	418.0		
6 8V 3000 M	30.00	29.80	B-3	M	6	3/8	1 3/8	6 1/2	3/8	306.0	8 8V 3000 N	A-3	N	6	3/8	2 1/2	8 1/2	3/8	447.0		
6 8V 3550 N	35.50	35.30	C-3	N	6	3/8	1 3/8	8 1/2	3/8	466.0	8 8V 3550 N	A-3	N	6	3/8	2 1/2	8 1/2	3/8	553.0		
6 8V 4000 N	40.00	39.80	C-3	N	6	3/8	1 3/8	8 1/2	3/8	548.0	8 8V 4000 N	A-3	N	6	3/8	2 1/2	8 1/2	3/8	648.0		
6 8V 4450 N	44.50	44.30	C-3	N	6	3/8	1 3/8	8 1/2	3/8	590.0	8 8V 4450 P	B-3	P	6 1/2	3/8	2 3/8	9 1/2	3/8	679.0		
6 8V 5300 N	53.00	52.80	C-3	N	6	3/8	1 3/8	8 1/2	3/8	658.0	8 8V 5300 P	B-3	P	6 1/2	3/8	2 3/8	9 1/2	3/8	946.0		
6 8V 6300 P	63.00	62.80	C-3	P	6 3/8	0	2	9 1/2	1 1/2	860.0	8 8V 6300 P	B-3	P	6 3/8	3/8	2 3/8	9 1/2	1 1/8	1372.0		
6 8V 7100 P	71.00	70.80	B-3	P	6 3/8	0	2	9 1/2	1 1/2	1272.0	8 8V 7100 W	C-3	W	8 1/2	3/8	1 1/2	11 1/2	3/8	1680.0		

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.
 ☆ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.



1 = SOLID

2 = WEB

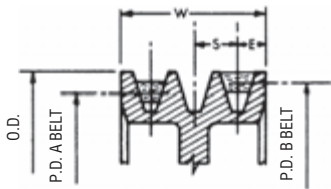
3 = ARM/SPOKE

QD Sheaves — 8V

10 Groove F = 11 ⁵ / ₈										12 Groove F = 13 ⁷ / ₈									
Part Number	OD	PD 8V Belt	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush
10 8V 1250 J	12.50	12.30	A-1	J	4 ¹ / ₂	2 ¹ / ₂	3 ³ / ₁₆	4 ¹ / ₂	4 ³ / ₄	122.0	12 8V 1250 M	A-1	M	5 ¹ / ₂	2 ¹ / ₂	3 ⁵ / ₁₆	6 ³ / ₄	4 ³ / ₄	161.0
10 8V 1320 J	13.20	13.00	A-1	J	4 ¹ / ₂	2 ¹ / ₂	3 ³ / ₁₆	4 ¹ / ₂	4 ³ / ₄	140.0	12 8V 1320 M	A-1	M	5 ¹ / ₂	2 ¹ / ₂	3 ⁵ / ₁₆	6 ³ / ₄	4 ³ / ₄	185.0
10 8V 1400 J	14.00	13.80	A-1	J	4 ¹ / ₂	2 ¹ / ₂	3 ³ / ₁₆	4 ¹ / ₂	4 ³ / ₄	152.0	12 8V 1400 M	A-1	M	5 ¹ / ₂	2 ¹ / ₂	3 ⁵ / ₁₆	6 ³ / ₄	4 ³ / ₄	211.0
10 8V 1500 M	15.00	14.80	A-1	M	5 ¹ / ₂	2 ¹ / ₂	3 ³ / ₁₆	6 ³ / ₄	2 ³ / ₄	212.0	12 8V 1500 M	A-1	M	5 ¹ / ₂	2 ¹ / ₂	3 ⁵ / ₁₆	6 ³ / ₄	4 ³ / ₄	234.0
10 8V 1600 M	16.00	15.80	A-1	M	5 ¹ / ₂	2 ¹ / ₂	3 ³ / ₁₆	6 ³ / ₄	2 ³ / ₄	219.0	12 8V 1600 M	A-1	M	5 ¹ / ₂	2 ¹ / ₂	3 ⁵ / ₁₆	6 ³ / ₄	4 ³ / ₄	285.0
10 8V 1700 M	17.00	16.80	A-2	M	5 ¹ / ₂	2 ¹ / ₂	3 ³ / ₁₆	6 ³ / ₄	2 ³ / ₄	228.0	12 8V 1700 M	A-1	M	5 ¹ / ₂	2 ¹ / ₂	3 ⁵ / ₁₆	6 ³ / ₄	4 ³ / ₄	324.0
10 8V 1800 M	18.00	17.80	A-2	M	5 ¹ / ₂	2 ¹ / ₂	3 ³ / ₁₆	6 ³ / ₄	2 ³ / ₄	236.0	12 8V 1800 M	A-2	M	5 ¹ / ₂	2 ¹ / ₂	3 ⁵ / ₁₆	6 ³ / ₄	4 ³ / ₄	330.0
10 8V 1900 M	19.00	18.80	A-2	M	5 ¹ / ₂	2 ¹ / ₂	3 ³ / ₁₆	6 ³ / ₄	2 ³ / ₄	260.0	12 8V 1900 N	A-2	N	6	1 ¹ / ₂	2 ¹ / ₂	8 ³ / ₄	5 ³ / ₄	338.0
10 8V 2000 M	20.00	19.80	A-2	M	5 ¹ / ₂	2 ¹ / ₂	3 ³ / ₁₆	6 ³ / ₄	2 ³ / ₄	280.0	12 8V 2000 N	A-2	N	6	1 ¹ / ₂	2 ¹ / ₂	8 ³ / ₄	5 ³ / ₄	365.0
10 8V 2120 M	21.20	21.00	A-2	M	5 ¹ / ₂	2 ¹ / ₂	3 ³ / ₁₆	6 ³ / ₄	2 ³ / ₄	298.0	12 8V 2120 N	A-2	N	6	1 ¹ / ₂	2 ¹ / ₂	8 ³ / ₄	5 ³ / ₄	382.0
10 8V 2240 N	22.40	22.20	A-2	N	6	1 ¹ / ₂	2 ¹ / ₂	8 ³ / ₄	3	366.0	12 8V 2240 N	A-2	N	6	1 ¹ / ₂	2 ¹ / ₂	8 ³ / ₄	5 ³ / ₄	399.0
10 8V 2480 N	24.80	24.60	A-2	N	6	1 ¹ / ₂	2 ¹ / ₂	8 ³ / ₄	3	454.0	12 8V 2480 N	A-2	N	6	1 ¹ / ₂	2 ¹ / ₂	8 ³ / ₄	5 ³ / ₄	454.0
10 8V 3000 N	30.00	29.80	A-3	N	6	1 ¹ / ₂	2 ¹ / ₂	8 ³ / ₄	3	468.0	12 8V 3000 P	A-3	P	6 ³ / ₄	1 ¹ / ₂	2 ¹ / ₂	9 ³ / ₄	3 ³ / ₄	605.0
10 8V 3550 P	35.50	35.30	A-3	P	6 ³ / ₄	1 ¹ / ₂	2 ¹ / ₂	9 ³ / ₄	1 ¹ / ₂	784.0	12 8V 3550 P	A-3	P	6 ³ / ₄	1 ¹ / ₂	2 ¹ / ₂	9 ³ / ₄	3 ³ / ₄	706.0
10 8V 4000 P	40.00	39.80	A-3	P	6 ³ / ₄	1 ¹ / ₂	2 ¹ / ₂	9 ³ / ₄	1 ¹ / ₂	826.0	12 8V 4000 P	A-3	P	6 ³ / ₄	1 ¹ / ₂	2 ¹ / ₂	9 ³ / ₄	3 ³ / ₄	766.0
10 8V 4450 P	44.50	44.30	A-3	P	6 ³ / ₄	1 ¹ / ₂	2 ¹ / ₂	9 ³ / ₄	1 ¹ / ₂	996.0	12 8V 4450 P	A-3	P	6 ³ / ₄	1 ¹ / ₂	2 ¹ / ₂	9 ³ / ₄	3 ³ / ₄	910.0
10 8V 5300 P	53.00	52.80	A-3	P	6 ³ / ₄	1 ¹ / ₂	2 ¹ / ₂	9 ³ / ₄	1 ¹ / ₂	1010.0	12 8V 5300 W	A-3	W	8 ³ / ₄	1 ¹ / ₂	2 ¹ / ₂	11 ³ / ₄	2 ¹ / ₂	1333.0
10 8V 6300 W	63.00	62.80	A-3	W	8 ³ / ₄	1 ¹ / ₂	2 ¹ / ₂	11 ³ / ₄	0	1443.0	12 8V 6300 W	A-3	W	8 ³ / ₄	1 ¹ / ₂	2 ¹ / ₂	11 ³ / ₄	1 ¹ / ₂	1777.0
10 8V 7100 W	71.00	70.80	A-3	W	8 ³ / ₄	1 ¹ / ₂	2 ¹ / ₂	11 ³ / ₄	0	1842.0	12 8V 7100 W	A-3	W	8 ³ / ₄	1 ¹ / ₂	2 ¹ / ₂	11 ³ / ₄	1 ¹ / ₂	2002.0

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.
 ☆ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

A-B Combination Groove Conventional Stock QD Sheaves

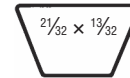


Combination Groove Dimensions

Belt Section	E	S	O.D.
"AB"	1/2	3/4	P.D. "B" + .35



A



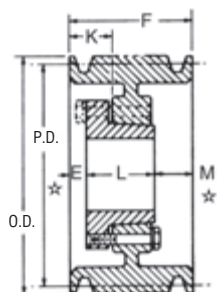
B

Drawing shows position of "A" and "B" belts in groove when used with QD sheaves.

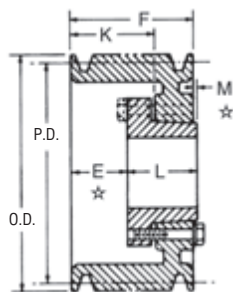
QD Sheaves — A-B

1 Groove												2 Groove								
F = 7/8 thru 1 B 64 SDS / F = 1 others												F = 1 1/4								
Part Number	PD		OD	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush
	A Belts	B Belts																		
1 B 34 SH	3.0	3.4	3.75	D-1	SH	1 1/16	3/16	0	1 1/16	1/8	1.4	2 B 34 SH	E-1	SH	1 1/16	1	0	1 1/16	3/16	2.8
1 B 36 SH	3.2	3.6	3.95	D-1	SH	1 1/16	3/16	0	1 1/16	1/8	1.6	2 B 36 SH	D-1	SH	1 1/16	3/8	3/16	1 1/16	13/16	2.8
1 B 38 SH	3.4	3.8	4.15	D-1	SH	1 1/16	3/16	0	1 1/16	1/8	1.2	2 B 38 SH	D-1	SH	1 1/16	3/8	3/16	1 1/16	13/16	3.3
1 B 40 SH	3.6	4.0	4.35	C-1	SH	1 1/16	1/4	3/16	1 1/16	3/16	2.2	2 B 40 SH	A-1	SH	1 1/16	1/2	1/16	1 1/16	3/8	3.4
1 B 42 SH	3.8	4.2	4.55	C-1	SH	1 1/16	1/4	3/16	1 1/16	3/16	6.9	2 B 42 SH	A-1	SH	1 1/16	1/2	1/16	1 1/16	3/8	3.8
1 B 44 SH	4.0	4.4	4.75	C-1	SH	1 1/16	1/4	3/16	1 1/16	3/16	2.9	2 B 44 SH	A-1	SH	1 1/16	1/2	1/16	1 1/16	3/8	4.6
1 B 46 SDS	4.2	4.6	4.95	C-1	SDS	2	3/16	3/16	1 1/8	3/16	2.6	2 B 46 SDS	A-2	SDS	2	1/8	1/16	1 1/8	3/8	4.3
1 B 48 SDS	4.4	4.8	5.15	C-1	SDS	2	3/16	3/16	1 1/8	3/16	3.1	2 B 48 SDS	A-2	SDS	2	1/8	1/16	1 1/8	3/8	4.8
1 B 50 SDS	4.6	5.0	5.35	C-1	SDS	2	3/16	3/16	1 1/8	3/16	3.5	2 B 50 SDS	A-2	SDS	2	1/8	1/16	1 1/8	3/8	5.5
1 B 52 SDS	4.8	5.2	5.55	C-1	SDS	2	3/16	3/16	1 1/8	3/16	3.7	2 B 52 SDS	A-2	SDS	2	1/8	1/16	1 1/8	3/8	5.8
1 B 54 SDS	5.0	5.4	5.75	C-1	SDS	2	3/16	3/16	1 1/8	3/16	4.0	2 B 54 SDS	A-2	SDS	2	1/8	1/16	1 1/8	3/8	6.1
1 B 56 SDS	5.2	5.6	5.95	C-1	SDS	2	3/16	3/16	1 1/8	3/16	4.2	2 B 56 SDS	A-2	SDS	2	1/8	1/16	1 1/8	3/8	6.6
1 B 58 SDS	5.4	5.8	6.15	C-1	SDS	2	3/16	3/16	1 1/8	3/16	4.5	2 B 58 SDS	A-1	SDS	2	1/8	1/16	1 1/8	3/8	7.2
1 B 60 SDS	5.6	6.0	6.35	C-1	SDS	2	3/16	3/16	1 1/8	3/16	4.9	2 B 60 SDS	A-2	SDS	2	1/8	1/16	1 1/8	3/8	7.6
1 B 62 SDS	5.8	6.2	6.55	C-2	SDS	2	3/16	3/16	1 1/8	3/16	5.5	2 B 62 SDS	A-2	SDS	2	1/8	1/16	1 1/8	3/8	7.0
1 B 64 SDS	6.0	6.4	6.75	C-2	SDS	2	3/16	3/16	1 1/8	3/16	5.7	2 B 64 SDS	A-2	SDS	2	1/8	1/16	1 1/8	3/8	7.0
1 B 66 SDS	6.2	6.6	6.95	C-2	SDS	2	3/16	3/16	1 1/8	3/16	5.9	2 B 66 SDS	A-2	SDS	2	1/8	1/16	1 1/8	3/8	9.0
1 B 68 SDS	6.4	6.8	7.15	C-2	SDS	2	3/16	3/16	1 1/8	3/16	4.8	2 B 68 SDS	A-2	SDS	2	1/8	1/16	1 1/8	3/8	9.2
1 B 70 SDS	6.6	7.0	7.35	C-2	SDS	2	1/2	1/2	1 1/8	1/2	5.8	2 B 70 SK	D-2	SK	2 3/8	1/4	3/16	1 1/8	1/8	8.8
1 B 74 SDS	7.0	7.4	7.75	C-2	SDS	2	1/2	1/2	1 1/8	1/2	6.4	2 B 74 SK	D-2	SK	2 3/8	1/4	3/16	1 1/8	1/8	11.0
1 B 80 SDS	7.6	8.0	8.35	C-3	SDS	2	1/2	1/2	1 1/8	1/2	6.8	2 B 80 SK	D-2	SK	2 3/8	1/4	3/16	1 1/8	1/8	12.6
1 B 86 SDS	8.2	8.6	8.95	C-3	SDS	2	1/2	1/2	1 1/8	1/2	7.2	2 B 86 SK	D-3	SK	2 3/8	1/4	3/16	1 1/8	1/8	12.0
1 B 94 SDS	9.0	9.4	9.75	C-3	SDS	2	1/2	1/2	1 1/8	1/2	8.0	2 B 94 SK	D-3	SK	2 3/8	1/4	3/16	1 1/8	1/8	13.4
1 B 110 SDS	10.6	11.0	11.35	C-3	SDS	2	1/2	1/2	1 1/8	1/2	9.0	2 B 110 SK	D-3	SK	2 3/8	1/4	3/16	1 1/8	1/8	16.4
1 B 124 SDS	12.0	12.4	12.75	C-3	SDS	2	1/2	1/2	1 1/8	1/2	11.0	2 B 124 SK	D-3	SK	2 3/8	1/4	3/16	1 1/8	1/8	19.2
1 B 136 SDS	13.2	13.6	13.95	C-3	SDS	2	1/2	1/2	1 1/8	1/2	12.0	2 B 136 SK	D-3	SK	2 3/8	1/4	3/16	1 1/8	1/8	19.0
1 B 154 SK	15.0	15.4	15.75	C-3	SK	2 3/8	3/16	1/8	1 1/16	3/8	13.0	2 B 154 SK	D-3	SK	2 3/8	1/4	3/16	1 1/8	1/8	22.0
1 B 160 SK	15.6	16.0	16.35	C-3	SK	2 3/8	3/16	1/8	1 1/16	3/8	15.0	2 B 160 SK	D-3	SK	2 3/8	1/4	3/16	1 1/8	1/8	26.0
1 B 184 SK	18.0	18.4	18.75	C-3	SK	2 3/8	3/16	1/8	1 1/16	3/8	19.0	2 B 184 SK	D-3	SK	2 3/8	1/4	3/16	1 1/8	1/8	30.0
1 B 200 SK	19.6	20.0	20.35	C-3	SK	2 3/8	3/16	1/8	1 1/16	3/8	25.0	2 B 200 SF	D-3	SF	2 3/8	3/16	3/8	2 1/8	0	35.0
	24.6	25.0	25.35									2 B 250 SF	D-3	SF	2 3/8	3/16	3/8	2 1/8	0	57.0
	29.6	30.0	30.35									2 B 300 SF	D-3	SF	2 3/8	3/16	3/8	2 1/8	0	80.0
	37.6	38.0	38.35									2 B 380 SF	D-3	SF	2 3/8	3/16	3/8	2 1/8	0	99.0

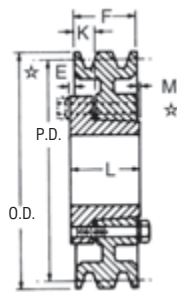
NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.
 ☆ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.



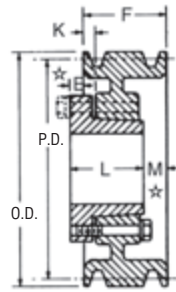
TYPE A



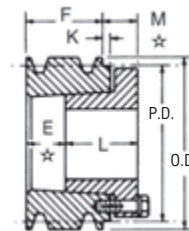
TYPE B



TYPE C



TYPE D



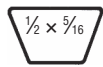
TYPE E

QD Sheaves — A-B

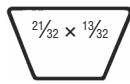
3 Groove F = 2 1/2												4 Groove F = 3/4								
Part Number	PD		OD	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush
	A Belts	B Belts																		
3 B 34 SH	3.0	3.4	3.75	E-1	SH	1 1/16	1 1/4	0	1 1/16	3/16	3.4	4 B 34 SD	E-1	SD	2	2 3/8	3/16	1 1/16	1/16	4.0
3 B 36 SH	3.2	3.6	3.95	E-1	SH	1 1/16	3/8	3/16	1 1/16	1 1/16	3.8	4 B 36 SD	E-1	SD	2	2 3/8	3/16	1 1/16	3/16	5.0
3 B 38 SH	3.4	3.8	4.15	E-1	SH	1 1/16	3/8	3/16	1 1/16	1 1/16	4.0	4 B 38 SD	E-1	SD	2	2 3/8	3/16	1 1/16	3/16	5.5
3 B 40 SH	3.6	4.0	4.35	A-1	SH	1 1/16	1/2	1 1/16	1 1/16	1 1/16	4.5	4 B 40 SD	E-1	SD	2	2 1/2	0	1 1/16	3/8	6.0
3 B 42 SH	3.8	4.2	4.55	A-1	SH	1 1/16	1/2	1 1/16	1 1/16	1 1/16	5.0	4 B 42 SD	E-1	SD	2	2 1/2	0	1 1/16	3/8	7.0
3 B 44 SH	4.0	4.4	4.75	A-1	SH	1 1/16	1/2	1 1/16	1 1/16	1 1/16	5.5	4 B 44 SD	E-1	SD	2	2 1/2	0	1 1/16	3/8	7.3
3 B 46 SD	4.2	4.6	4.95	A-1	SD	2	3/8	1 1/16	1 1/16	3/4	6.0	4 B 46 SD	A-1	SD	2	1 1/2	1 1/16	1 1/16	3/8	7.6
3 B 48 SD	4.4	4.8	5.15	A-1	SD	2	3/8	1 1/16	1 1/16	3/4	6.5	4 B 48 SD	A-1	SD	2	1 1/2	1 1/16	1 1/16	3/8	8.0
3 B 50 SD	4.6	5.0	5.35	A-1	SD	2	3/8	1 1/16	1 1/16	3/4	7.0	4 B 50 SD	A-1	SD	2	1 1/2	1 1/16	1 1/16	3/8	9.0
3 B 52 SD	4.8	5.2	5.55	A-1	SD	2	3/8	1 1/16	1 1/16	3/4	8.0	4 B 52 SD	A-1	SD	2	1 1/2	1 1/16	1 1/16	3/8	10.0
3 B 54 SD	5.0	5.4	5.75	A-1	SD	2	3/8	1 1/16	1 1/16	3/4	8.5	4 B 54 SD	A-1	SD	2	1 1/2	1 1/16	1 1/16	3/8	10.5
3 B 56 SD	5.2	5.6	5.95	A-1	SD	2	3/8	1 1/16	1 1/16	3/4	9.0	4 B 56 SD	A-1	SD	2	1 1/2	1 1/16	1 1/16	3/8	11.0
3 B 58 SD	5.4	5.8	6.15	A-1	SD	2	3/8	1 1/16	1 1/16	3/4	10.0	4 B 58 SD	A-1	SD	2	1 1/2	1 1/16	1 1/16	3/8	12.0
3 B 60 SD	5.6	6.0	6.35	A-1	SD	2	3/8	1 1/16	1 1/16	3/4	11.0	4 B 60 SD	A-1	SD	2	1 1/2	1 1/16	1 1/16	3/8	12.5
3 B 62 SD	5.8	6.2	6.55	A-1	SD	2	3/8	1 1/16	1 1/16	3/4	12.0	4 B 62 SD	A-1	SD	2	1 1/2	1 1/16	1 1/16	3/8	13.0
3 B 64 SD	6.0	6.4	6.75	A-1	SD	2	3/8	1 1/16	1 1/16	3/4	12.3	4 B 64 SD	A-1	SD	2	1 1/2	1 1/16	1 1/16	3/8	14.0
3 B 66 SD	6.2	6.6	6.95	A-1	SD	2	3/8	1 1/16	1 1/16	3/4	12.6	4 B 66 SD	A-1	SD	2	1 1/2	1 1/16	1 1/16	3/8	14.5
3 B 68 SD	6.4	6.8	7.15	A-1	SD	2	3/8	1 1/16	1 1/16	3/4	13.0	4 B 68 SD	A-1	SD	2	1 1/2	1 1/16	1 1/16	3/8	15.0
3 B 70 SK	6.6	7.0	7.35	A-1	SK	2 3/8	0	1 1/16	1 1/16	3/8	14.0	4 B 70 SK	A-1	SK	2 3/8	3/8	1	1 1/16	1	15.5
3 B 74 SK	7.0	7.4	7.75	A-1	SK	2 3/8	0	1 1/16	1 1/16	3/8	15.0	4 B 74 SK	A-1	SK	2 3/8	3/8	1	1 1/16	1	16.0
3 B 80 SK	7.6	8.0	8.35	A-1	SK	2 3/8	0	1 1/16	1 1/16	3/8	16.0	4 B 80 SK	A-1	SK	2 3/8	3/8	1	1 1/16	1	17.0
3 B 86 SK	8.2	8.6	8.95	A-3	SK	2 3/8	0	1 1/16	1 1/16	3/8	17.0	4 B 86 SK	A-3	SK	2 3/8	3/8	1	1 1/16	1	18.0
3 B 94 SK	9.0	9.4	9.75	A-3	SK	2 3/8	0	1 1/16	1 1/16	3/8	18.0	4 B 94 SK	A-3	SK	2 3/8	3/8	1	1 1/16	1	19.0
3 B 110 SK	10.6	11.0	11.35	A-3	SK	2 3/8	0	1 1/16	1 1/16	3/8	19.0	4 B 110 SK	A-3	SK	2 3/8	3/8	1	1 1/16	1	24.0
3 B 124 SK	12.0	12.4	12.75	A-3	SK	2 3/8	0	1 1/16	1 1/16	3/8	23.0	4 B 124 SK	A-3	SK	2 3/8	3/8	1	1 1/16	1	26.0
3 B 136 SK	13.2	13.6	13.95	A-3	SK	2 3/8	0	1 1/16	1 1/16	3/8	24.1	4 B 136 SK	A-3	SK	2 3/8	3/8	1	1 1/16	1	28.0
3 B 154 SK	15.0	15.4	15.75	A-3	SK	2 3/8	0	1 1/16	1 1/16	3/8	28.0	4 B 154 SF	A-3	SF	2 1/2	3/8	1	2 1/16	3/8	41.0
3 B 160 SK	15.6	16.0	16.35	A-3	SK	2 3/8	0	1 1/16	1 1/16	3/8	29.0	4 B 160 SF	A-3	SF	2 1/2	3/8	1	2 1/16	3/8	42.0
3 B 184 SK	18.0	18.4	18.75	A-3	SK	2 3/8	0	1 1/16	1 1/16	3/8	37.0	4 B 184 SF	A-3	SF	2 1/2	3/8	1	2 1/16	3/8	48.0
3 B 200 SF	19.6	20.0	20.35	D-3	SF	2 1/2	1/8	3/8	2 1/4	1/2	39.0	4 B 200 SF	A-3	SF	2 1/2	3/8	1	2 1/16	3/8	58.0
3 B 250 SF	24.6	25.0	25.35	D-3	SF	2 1/2	1/8	3/8	2 1/4	1/2	67.0	4 B 250 E	A-3	E	3 1/2	3/8	1	2 3/8	1/2	78.0
3 B 300 SF	29.6	30.0	30.35	D-3	SF	2 1/2	1/8	3/8	2 1/4	1/2	74.0	4 B 300 E	A-3	E	3 1/2	3/8	1	2 3/8	1/2	93.0
3 B 380 E	37.6	38.0	38.35	D-3	E	3 1/2	1/4	3/8	2 3/4	1/2	122.0	4 B 380 E	A-3	E	3 1/2	3/8	1	2 3/8	1/2	138.0

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.
 ☆ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

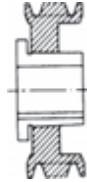
A-B Combination Groove Conventional Stock QD Sheaves



A



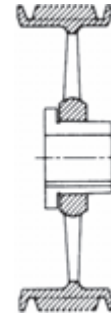
B



1 = SOLID



2 = WEB



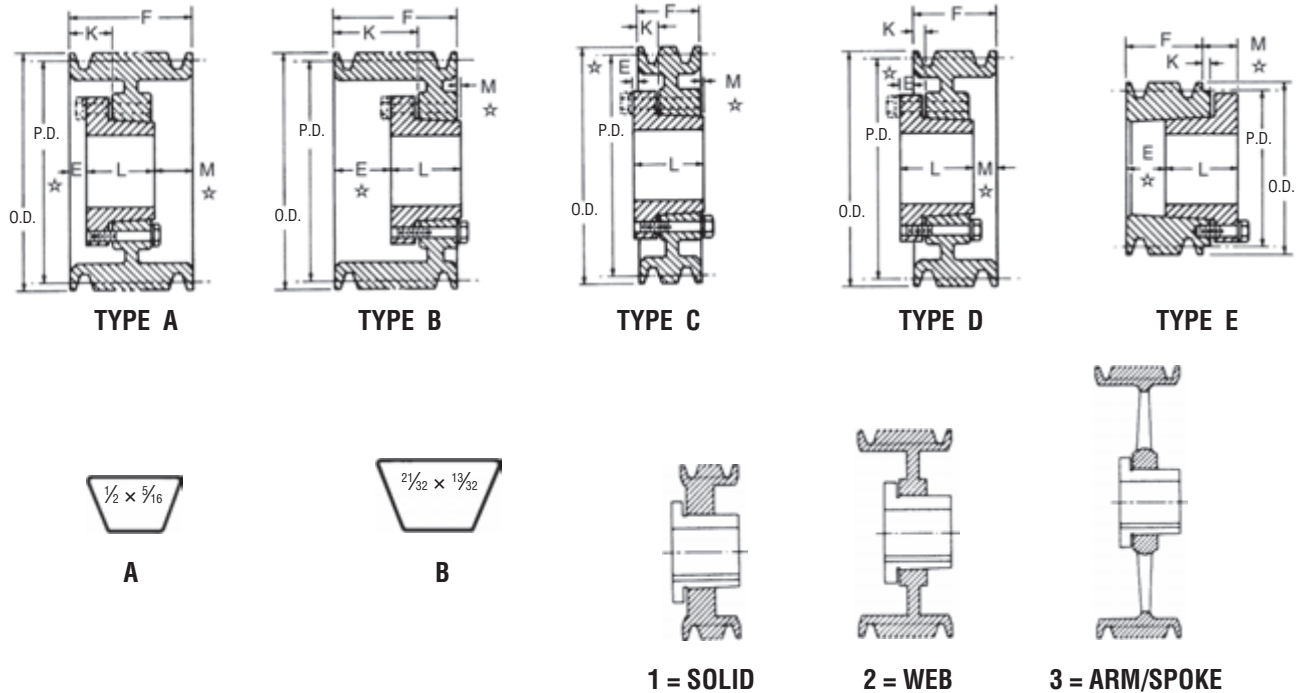
3 = ARM/SPOKE

QD Sheaves — A-B

5 Groove F = 4												6 Groove F = 4 3/4								
Part Number	PD		OD	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush
	A Belts	B Belts																		
5 B 34 SD	3.0	3.4	3.75	E-1	SD	2	3 3/4	7/16	1 1/16	1 1/16	5.0	6 B 34 SD	E-1	SD	2	3 3/8	5/16	1 1/16	1 5/16	6.0
5 B 36 SD	3.2	3.6	3.95	E-1	SD	2	3 3/4	7/16	1 1/16	1 1/16	6.0	6 B 36 SD	E-1	SD	2	3 3/8	5/16	1 1/16	1 5/16	7.0
5 B 38 SD	3.4	3.8	4.15	E-1	SD	2	3 3/4	7/16	1 1/16	1 1/16	6.5	6 B 38 SD	E-1	SD	2	3 3/8	5/16	1 1/16	1 5/16	7.5
5 B 40 SD	3.6	4.0	4.35	E-1	SD	2	2 11/16	0	1 1/16	1/2	7.0	6 B 40 SD	E-1	SD	2	3 3/8	0	1 1/16	1/2	8.0
5 B 42 SD	3.8	4.2	4.55	E-1	SD	2	2 11/16	0	1 1/16	1/2	7.5	6 B 42 SD	E-1	SD	2	3 3/8	0	1 1/16	1/2	9.0
5 B 44 SD	4.0	4.4	4.75	E-1	SD	2	2 11/16	0	1 1/16	1/2	8.0	6 B 44 SD	E-1	SD	2	3 3/8	0	1 1/16	1/2	9.5
5 B 46 SD	4.2	4.6	4.95	A-1	SD	2	1 1/16	1 1/16	1 1/16	1 1/2	9.0	6 B 46 SD	A-1	SD	2	2 1/4	1 1/16	1 1/16	2 3/8	10.0
5 B 48 SD	4.4	4.8	5.15	A-1	SD	2	1 1/16	1 1/16	1 1/16	1 1/2	9.5	6 B 48 SD	A-1	SD	2	2 1/4	1 1/16	1 1/16	2 3/8	10.5
5 B 50 SD	4.6	5.0	5.35	A-1	SD	2	1 1/16	1 1/16	1 1/16	1 1/2	10.0	6 B 50 SD	A-1	SD	2	2 1/4	1 1/16	1 1/16	2 3/8	11.0
5 B 52 SD	4.8	5.2	5.55	A-1	SD	2	1 1/16	1 1/16	1 1/16	1 1/2	10.5	6 B 52 SD	A-1	SD	2	2 1/4	1 1/16	1 1/16	2 3/8	11.5
5 B 54 SK	5.0	5.4	5.75	A-1	SK	2 1/2	1/2	1 1/16	1 1/16	1 1/16	11.0	6 B 54 SK	A-1	SK	2 3/8	1/2	1 1/16	1 1/16	2 3/8	12.0
5 B 56 SK	5.2	5.6	5.95	A-1	SK	2 1/2	1/2	1 1/16	1 1/16	1 1/16	11.5	6 B 56 SK	A-1	SK	2 3/8	1/2	1 1/16	1 1/16	2 3/8	13.0
5 B 58 SK	5.4	5.8	6.15	A-1	SK	2 1/2	1/2	1 1/16	1 1/16	1 1/16	12.0	6 B 58 SK	A-1	SK	2 3/8	1/2	1 1/16	1 1/16	2 3/8	14.0
5 B 60 SK	5.6	6.0	6.35	A-1	SK	2 1/2	1/2	1 1/16	1 1/16	1 1/16	13.0	6 B 60 SK	A-1	SK	2 3/8	1/2	1 1/16	1 1/16	2 3/8	15.0
5 B 62 SK	5.8	6.2	6.55	A-1	SK	2 1/2	1/2	1 1/16	1 1/16	1 1/16	14.0	6 B 62 SK	A-1	SK	2 3/8	1/2	1 1/16	1 1/16	2 3/8	16.0
5 B 64 SK	6.0	6.4	6.75	A-1	SK	2 1/2	1/2	1 1/16	1 1/16	1 1/16	15.0	6 B 64 SK	A-1	SK	2 3/8	1/2	1 1/16	1 1/16	2 3/8	17.0
5 B 66 SK	6.2	6.6	6.95	A-1	SK	2 1/2	1/2	1 1/16	1 1/16	1 1/16	16.0	6 B 66 SK	A-1	SK	2 3/8	1/2	1 1/16	1 1/16	2 3/8	18.0
5 B 68 SK	6.4	6.8	7.15	A-1	SK	2 1/2	1/2	1 1/16	1 1/16	1 1/16	17.0	6 B 68 SK	A-1	SK	2 3/8	1/2	1 1/16	1 1/16	2 3/8	19.0
5 B 70 SF	6.6	7.0	7.35	A-1	SF	2 1/2	1/2	1 1/16	2 1/16	1 1/16	18.0	6 B 70 SF	A-1	SF	2 1/2	1	1 1/16	2 1/16	1 1/16	19.5
5 B 74 SF	7.0	7.4	7.75	A-1	SF	2 1/2	1/2	1 1/16	2 1/16	1 1/16	20.0	6 B 74 SF	A-1	SF	2 1/2	1	1 1/16	2 1/16	1 1/16	22.0
5 B 80 SF	7.6	8.0	8.35	A-1	SF	2 1/2	1/2	1 1/16	2 1/16	1 1/16	23.0	6 B 80 SF	A-1	SF	2 1/2	1	1 1/16	2 1/16	1 1/16	25.0
5 B 86 SF	8.2	8.6	8.95	A-2	SF	2 1/2	1/2	1 1/16	2 1/16	1 1/16	24.0	6 B 86 SF	A-2	SF	2 1/2	1	1 1/16	2 1/16	1 1/16	28.0
5 B 94 SF	9.0	9.4	9.75	A-2	SF	2 1/2	1/2	1 1/16	2 1/16	1 1/16	26.0	6 B 94 SF	A-2	SF	2 1/2	1	1 1/16	2 1/16	1 1/16	29.0
5 B 110 SF	10.6	11.0	11.35	A-2	SF	2 1/2	1/2	1 1/16	2 1/16	1 1/16	32.0	6 B 110 SF	A-2	SF	2 1/2	1	1 1/16	2 1/16	1 1/16	30.0
5 B 124 SF	12.0	12.4	12.75	A-3	SF	2 1/2	1/2	1 1/16	2 1/16	1 1/16	35.0	6 B 124 SF	A-3	SF	2 1/2	1	1 1/16	2 1/16	1 1/16	40.0
5 B 136 SF	13.2	13.6	13.95	A-3	SF	2 1/2	1/2	1 1/16	2 1/16	1 1/16	36.0	6 B 136 SF	A-3	SF	2 1/2	1	1 1/16	2 1/16	1 1/16	45.0
5 B 154 SF	15.0	15.4	15.75	A-3	SF	2 1/2	1/2	1 1/16	2 1/16	1 1/16	46.0	6 B 154 SF	A-3	SF	2 1/2	1	1 1/16	2 1/16	1 1/16	46.0
5 B 160 SF	15.6	16.0	16.35	A-3	SF	2 1/2	1/2	1 1/16	2 1/16	1 1/16	48.0	6 B 160 SF	A-3	SF	2 1/2	1	1 1/16	2 1/16	1 1/16	50.0
5 B 184 SF	18.0	18.4	18.75	A-3	SF	2 1/2	1/2	1 1/16	2 1/16	1 1/16	50.0	6 B 184 SF	A-3	SF	2 1/2	1	1 1/16	2 1/16	1 1/16	60.0
5 B 200 E	19.6	20.0	20.35	A-3	E	3 1/2	1/2	1 1/4	2 1/16	1	72.0	6 B 200 E	A-3	E	3 1/2	1/2	1 1/4	2 1/16	1	78.0
5 B 250 E	24.6	25.0	25.35	A-3	E	3 1/2	1/2	1 1/4	2 1/16	1	90.0	6 B 250 E	A-3	E	3 1/2	1/2	1 1/4	2 1/16	1	98.0
5 B 300 E	29.6	30.0	30.35	A-3	E	3 1/2	1/2	1 1/4	2 1/16	1	108.0	6 B 300 E	A-3	E	3 1/2	1/2	1 1/4	2 1/16	1	109.0
5 B 380 E	37.6	38.0	38.35	A-3	E	3 1/2	1/2	1 1/4	2 1/16	1	145.0	6 B 380 E	A-3	E	3 1/2	1/2	1 1/4	2 1/16	1	173.0

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.

☆ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.



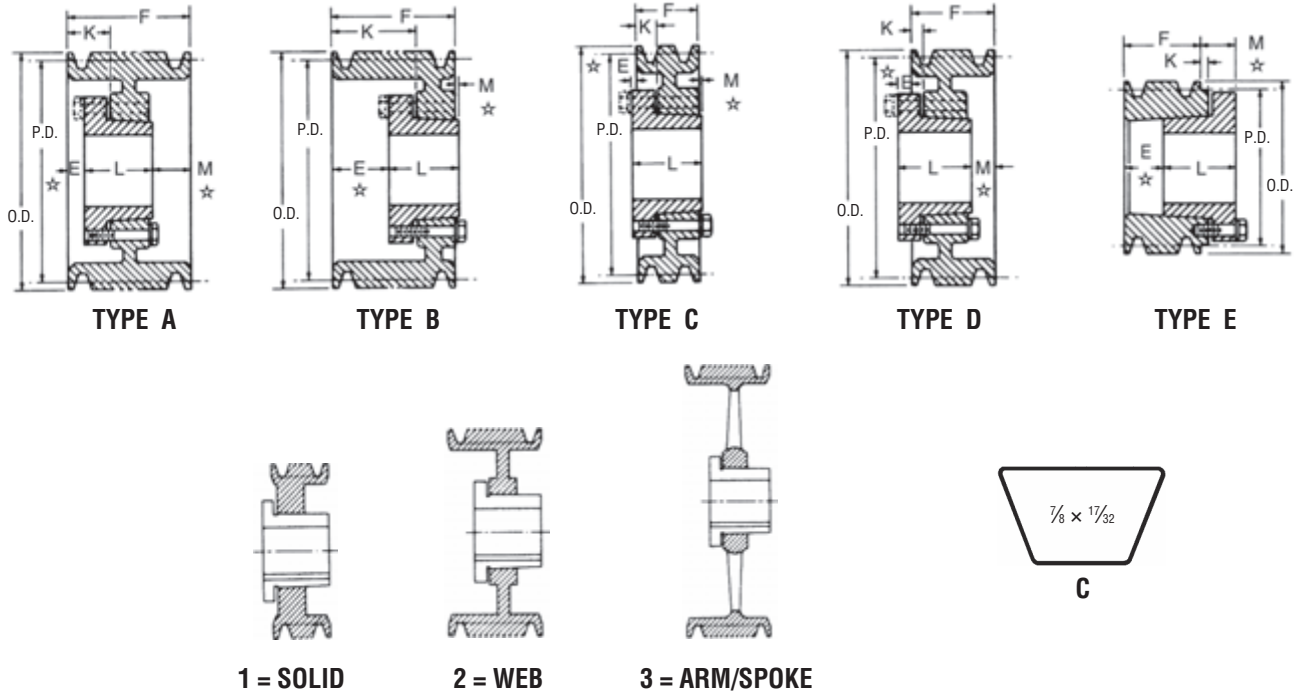
QD Sheaves — A-B

8 Groove F = 6 1/4												10 Groove F = 7 1/4								
Part Number	PD		OD	Type	Bush	Bush Max. Bore	E ☆	K	L		Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E ☆	K	L		Wt. Less Bush
	A Belts	B Belts							Length Thru Bore	M ☆								Length Thru Bore	M ☆	
8 B 54 SK	5.0	5.4	5.75	A-1	SK	2 1/8	1 1/8	1 1/8	1 1/8	3 1/8	14.0	10 B 54 SK	A-1	SK	2 1/8	1 1/8	2 1/8	1 1/8	3 1/8	15.0
8 B 56 SK	5.2	5.6	5.95	A-1	SK	2 1/8	1 1/8	1 1/8	1 1/8	3 1/8	16.0	10 B 56 SK	A-1	SK	2 1/8	1 1/8	2 1/8	1 1/8	3 1/8	18.0
8 B 58 SK	5.4	5.8	6.15	A-1	SK	2 1/8	1 1/8	1 1/8	1 1/8	3 1/8	16.5	10 B 58 SK	A-1	SK	2 1/8	1 1/8	2 1/8	1 1/8	3 1/8	20.0
8 B 60 SF	5.6	6.0	6.35	A-1	SF	2 1/8	1 1/8	1 1/8	2 1/8	3 1/8	17.0	10 B 60 SF	A-1	SF	2 1/8	1 1/8	2 1/8	2 1/8	3 1/8	22.0
8 B 62 SF	5.8	6.2	6.55	A-1	SF	2 1/8	1 1/8	1 1/8	2 1/8	3 1/8	18.0	10 B 62 SF	A-1	SF	2 1/8	1 1/8	2 1/8	2 1/8	3 1/8	24.0
8 B 64 SF	6.0	6.4	6.75	A-1	SF	2 1/8	1 1/8	1 1/8	2 1/8	3 1/8	18.5	10 B 64 SF	A-1	SF	2 1/8	1 1/8	2 1/8	2 1/8	3 1/8	25.0
8 B 66 SF	6.2	6.6	6.95	A-1	SF	2 1/8	1 1/8	1 1/8	2 1/8	3 1/8	21.0	10 B 66 SF	A-1	SF	2 1/8	1 1/8	2 1/8	2 1/8	3 1/8	26.0
8 B 68 SF	6.4	6.8	7.15	A-1	SF	2 1/8	1 1/8	1 1/8	2 1/8	3 1/8	22.0	10 B 68 SF	A-1	SF	2 1/8	1 1/8	2 1/8	2 1/8	3 1/8	27.0
8 B 70 SF	6.6	7.0	7.35	A-1	SF	2 1/8	1 1/8	1 1/8	2 1/8	3 1/8	22.5	10 B 70 SF	A-1	SF	2 1/8	1 1/8	2 1/8	2 1/8	3 1/8	28.0
8 B 74 SF	7.0	7.4	7.75	A-1	SF	2 1/8	1 1/8	1 1/8	2 1/8	3 1/8	25.0	10 B 74 SF	A-1	SF	2 1/8	1 1/8	2 1/8	2 1/8	3 1/8	31.0
8 B 80 SF	7.6	8.0	8.35	A-1	SF	2 1/8	1 1/8	1 1/8	2 1/8	3 1/8	29.0	10 B 80 SF	A-1	SF	2 1/8	1 1/8	2 1/8	2 1/8	3 1/8	35.0
8 B 86 E	8.2	8.6	8.95	A-1	E	3 1/8	1 1/2	2 1/8	2 1/8	2 1/8	34.0	10 B 86 E	A-1	E	3 1/8	2 1/4	3 1/8	2 1/8	2 1/8	38.0
8 B 94 E	9.0	9.4	9.75	A-1	E	3 1/8	1 1/2	2 1/8	2 1/8	2 1/8	40.0	10 B 94 E	A-1	E	3 1/8	2 1/4	3 1/8	2 1/8	2 1/8	45.0
8 B 110 E	10.6	11.0	11.35	A-2	E	3 1/8	1 1/2	2 1/8	2 1/8	2 1/8	47.0	10 B 110 E	A-2	E	3 1/8	2 1/4	3 1/8	2 1/8	2 1/8	53.0
8 B 124 E	12.0	12.4	12.75	A-3	E	3 1/8	1 1/2	2 1/8	2 1/8	2 1/8	52.0	10 B 124 E	A-3	E	3 1/8	2 1/4	3 1/8	2 1/8	2 1/8	63.0
8 B 136 E	13.2	13.6	13.95	A-3	E	3 1/8	1 1/2	2 1/8	2 1/8	2 1/8	60.0	10 B 136 F	A-3	F	3 1/8	1 1/8	2 1/8	3 1/8	3 1/8	78.0
8 B 154 E	15.0	15.4	15.75	A-3	E	3 1/8	1 1/2	2 1/8	2 1/8	2 1/8	82.0	10 B 154 F	A-3	F	3 1/8	1 1/8	2 1/8	3 1/8	3 1/8	90.0
8 B 160 E	15.6	16.0	16.35	A-3	E	3 1/8	1 1/2	2 1/8	2 1/8	2 1/8	90.0	10 B 160 F	A-3	F	3 1/8	1 1/8	2 1/8	3 1/8	3 1/8	96.0
8 B 184 F	18.0	18.4	18.75	A-3	F	3 1/8	1 1/8	1 1/8	3 1/8	2 1/8	110.0	10 B 184 F	A-3	F	3 1/8	1 1/8	2 1/8	3 1/8	3 1/8	113.0
8 B 200 F	19.6	20.0	20.35	A-3	F	3 1/8	1 1/8	1 1/8	3 1/8	2 1/8	122.0	10 B 200 F	A-3	F	3 1/8	1 1/8	2 1/8	3 1/8	3 1/8	114.0
8 B 250 F	24.6	25.0	25.35	A-3	F	3 1/8	1 1/8	1 1/8	3 1/8	2 1/8	138.0	10 B 250 F	A-3	F	3 1/8	1 1/8	2 1/8	3 1/8	3 1/8	138.0
8 B 300 F	29.6	30.0	30.35	A-3	F	3 1/8	1 1/8	1 1/8	3 1/8	2 1/8	168.0	10 B 300 F	A-3	F	3 1/8	1 1/8	2 1/8	3 1/8	3 1/8	200.0
8 B 380 F	37.6	38.0	38.35	A-3	F	3 1/8	1 1/8	1 1/8	3 1/8	2 1/8	222.0	10 B 380 J	A-3	J	4 1/2	3/8	1 1/8	4 1/2	2 1/8	279.0

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.

☆ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

C Conventional Stock QD Sheaves



QD Sheaves — C

1 Groove F = 1 1/8										2 Groove F = 2 1/2									
Part Number	PD	OD	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush
	C Belt																			Part Number
1 C 60 SK	6.00	6.40	C-1	SK	2 5/16	5/16	1/8	1 1/16	0	9.4	2 C 60 SF	A-1	SF	2 5/16	3/16	1/8	2 1/16	1/8	8.0
1 C 70 SF	7.00	7.40	C-1	SF	2 5/16	5/16	1/8	2 1/16	1/8	9.8	2 C 70 SF	A-1	SF	2 5/16	1/8	1/16	2 1/16	3/16	12.0
1 C 75 SF	7.50	7.90	C-1	SF	2 5/16	5/16	1/8	2 1/16	1/8	11.0	2 C 75 SF	A-1	SF	2 5/16	1/8	1/16	2 1/16	3/16	15.0
1 C 80 SF	8.00	8.40	C-1	SF	2 5/16	5/16	1/8	2 1/16	1/8	13.0	2 C 80 SF	A-1	SF	2 5/16	1/8	1/16	2 1/16	3/16	16.0
1 C 85 SF	8.50	8.90	C-1	SF	2 5/16	5/16	1/8	2 1/16	1/8	13.3	2 C 85 SF	A-1	SF	2 5/16	1/8	1/16	2 1/16	3/16	19.0
1 C 90 SF	9.00	9.40	C-3	SF	2 5/16	5/16	1/8	2 1/16	1/8	13.5	2 C 90 SF	A-2	SF	2 5/16	1/8	1/16	2 1/16	3/16	19.5
1 C 95 SF	9.50	9.90	C-3	SF	2 5/16	5/16	1/8	2 1/16	1/8	13.8	2 C 95 SF	A-2	SF	2 5/16	1/8	1/16	2 1/16	3/16	21.0
1 C 100 SF	10.00	10.40	C-3	SF	2 5/16	5/16	1/8	2 1/16	1/8	14.0	2 C 100 SF	A-2	SF	2 5/16	1/8	1/16	2 1/16	3/16	22.0
1 C 105 SF	10.50	10.90	C-3	SF	2 5/16	5/16	1/8	2 1/16	1/8	15.0	2 C 105 SF	A-2	SF	2 5/16	1/8	1/16	2 1/16	3/16	25.0
1 C 110 SF	11.00	11.40	C-3	SF	2 5/16	5/16	1/8	2 1/16	1/8	15.8	2 C 110 SF	A-3	SF	2 5/16	1/8	1/16	2 1/16	3/16	26.0
1 C 120 SF	12.00	12.40	C-3	SF	2 5/16	5/16	1/8	2 1/16	1/8	17.0	2 C 120 SF	D-3	SF	2 5/16	1/8	1/16	2 1/16	3/16	29.0
1 C 130 SF	13.00	13.40	C-3	SF	2 5/16	5/16	1/8	2 1/16	1/8	18.0	2 C 130 SF	D-3	SF	2 5/16	1/8	1/16	2 1/16	3/16	31.0
1 C 140 SF	14.00	14.40	C-3	SF	2 5/16	5/16	1/8	2 1/16	1/8	20.0	2 C 140 SF	D-3	SF	2 5/16	1/8	1/16	2 1/16	3/16	35.0
1 C 150 SF	15.00	15.40	C-3	SF	2 5/16	5/16	1/8	2 1/16	1/8	21.0	2 C 150 SF	D-3	SF	2 5/16	1/8	1/16	2 1/16	3/16	39.0
1 C 160 SF	16.00	16.40	C-3	SF	2 5/16	5/16	1/8	2 1/16	1/8	24.0	2 C 160 SF	D-3	SF	2 5/16	1/8	1/16	2 1/16	3/16	43.0
1 C 180 SF	18.00	18.40	C-3	SF	2 5/16	5/16	1/8	2 1/16	1/8	27.0	2 C 180 SF	D-3	SF	2 5/16	1/8	1/16	2 1/16	3/16	48.0
1 C 200 SF	20.00	20.40	C-3	SF	2 5/16	5/16	1/8	2 1/16	1/8	31.0	2 C 200 SF	D-3	SF	2 5/16	1/8	1/16	2 1/16	3/16	55.0
1 C 240 SF	24.00	24.40	C-3	SF	2 5/16	5/16	1/8	2 1/16	1/8	37.0	2 C 240 SF	D-3	SF	2 5/16	1/8	1/16	2 1/16	3/16	65.0
	27.00	27.40									2 C 270 F	C-3	F	3 3/16	1/16	3/16	3%	107.0	
	30.00	30.40									2 C 300 F	C-3	F	3 3/16	1/16	3/16	3%	115.0	

☆ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only. See page B-3 and B-4 for additional bushing dimensions.



Conventional Stock QD Sheaves C

QD Sheaves — C

3 Groove F = 3%											4 Groove F = 4%										
Part Number	PD		OD	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush	
	C Belt	OD																			
3 C 50 SD	5.00	5.40	A-1	SD	2	1/16	1 1/8	1 1/16	1 1/8	8.0	4 C 50 SD	A-1	SD	2	1/16	1 1/8	1 1/16	1 1/8	1 1/16	10.0	
3 C 54 SD	5.40	5.80	A-1	SD	2	1/16	1 1/8	1 1/16	1 1/8	9.0	4 C 54 SD	A-1	SD	2	1/16	1 1/8	1 1/16	1 1/8	1 1/16	12.0	
3 C 55 SD	5.50	5.90	A-1	SD	2	1/16	1 1/8	1 1/16	1 1/8	10.0	4 C 55 SD	A-1	SD	2	1/16	1 1/8	1 1/16	1 1/8	1 1/16	12.4	
3 C 56 SD	5.60	6.00	A-1	SD	2	1/16	1 1/8	1 1/16	1 1/8	11.0	4 C 56 SD	A-1	SD	2	1/16	1 1/8	1 1/16	1 1/8	1 1/16	12.4	
3 C 60 SF	6.00	6.40	A-1	SF	2 1/16	3/16	7/8	2 1/16	1 1/8	12.0	4 C 60 SF	A-1	SF	2 1/16	3/16	7/8	2 1/16	2 1/8	2 1/8	12.6	
3 C 70 SF	7.00	7.40	A-1	SF	2 1/16	3/16	1 1/8	2 1/16	1 1/8	14.0	4 C 70 SF	A-2	SF	2 1/16	3/16	1 1/8	2 1/16	1 1/8	1 1/8	13.0	
3 C 75 SF	7.50	7.90	A-1	SF	2 1/16	3/16	1 1/8	2 1/16	1 1/8	17.0	4 C 75 SF	A-2	SF	2 1/16	3/16	1 1/8	2 1/16	1 1/8	1 1/8	19.0	
3 C 80 E	8.00	8.40	B-1	E	3 1/2	7/8	1 3/4	2 3/8	1/2	19.0	4 C 80 E	A-2	E	3 1/2	1 1/2	2	2 3/8	1/2	1/2	24.0	
3 C 85 E	8.50	8.90	B-1	E	3 1/2	7/8	1 3/4	2 3/8	1/2	22.0	4 C 85 E	A-1	E	3 1/2	1 1/2	2	2 3/8	1/2	1/2	27.0	
3 C 90 E	9.00	9.40	B-1	E	3 1/2	7/8	1 3/4	2 3/8	1/2	26.0	4 C 90 E	A-1	E	3 1/2	1 1/2	2	2 3/8	1/2	1/2	30.0	
3 C 95 E	9.50	9.90	B-1	E	3 1/2	7/8	1 3/4	2 3/8	1/2	29.0	4 C 95 E	A-1	E	3 1/2	1 1/2	2	2 3/8	1/2	1/2	33.0	
3 C 100 E	10.00	10.40	B-1	E	3 1/2	7/8	1 3/4	2 3/8	1/2	27.0	4 C 100 E	A-1	E	3 1/2	1 1/2	2	2 3/8	1/2	1/2	35.0	
3 C 105 E	10.50	10.90	B-2	E	3 1/2	7/8	1 3/4	2 3/8	1/2	31.0	4 C 105 E	A-2	E	3 1/2	1 1/2	2	2 3/8	1/2	1/2	40.0	
3 C 110 E	11.00	11.40	B-2	E	3 1/2	7/8	1 3/4	2 3/8	1/2	38.0	4 C 110 E	A-1	E	3 1/2	1 1/2	2	2 3/8	1/2	1/2	45.0	
3 C 120 E	12.00	12.40	B-3	E	3 1/2	7/8	1 3/4	2 3/8	1/2	40.0	4 C 120 E	A-1	E	3 1/2	1 1/2	2	2 3/8	1/2	1/2	48.0	
3 C 130 E	13.00	13.40	B-3	E	3 1/2	7/8	1 3/4	2 3/8	1/2	43.0	4 C 130 E	A-3	E	3 1/2	1 1/2	2	2 3/8	1/2	1/2	49.0	
3 C 140 E	14.00	14.40	B-3	E	3 1/2	7/8	1 3/4	2 3/8	1/2	46.0	4 C 140 E	A-3	E	3 1/2	1 1/2	2	2 3/8	1/2	1/2	56.0	
3 C 150 E	15.00	15.40	B-3	E	3 1/2	7/8	1 3/4	2 3/8	1/2	52.0	4 C 150 E	A-3	E	3 1/2	1 1/2	2	2 3/8	1/2	1/2	62.0	
3 C 160 E	16.00	16.40	B-3	E	3 1/2	7/8	1 3/4	2 3/8	1/2	58.0	4 C 160 E	A-3	E	3 1/2	1 1/2	2	2 3/8	1/2	1/2	68.0	
3 C 180 E	18.00	18.40	B-3	E	3 1/2	7/8	1 3/4	2 3/8	1/2	67.0	4 C 180 E	A-3	E	3 1/2	1 1/2	2	2 3/8	1/2	1/2	74.0	
3 C 200 E	20.00	20.40	A-3	E	3 1/2	7/8	1 3/4	2 3/8	1/2	70.0	4 C 200 E	A-3	E	3 1/2	1 1/2	2	2 3/8	1/2	1/2	81.0	
3 C 240 E	24.00	24.40	A-3	E	3 1/2	7/8	1 3/4	2 3/8	1/2	90.0	4 C 240 F	A-3	F	3 1/2	1 1/2	2	2 3/8	1/2	1/2	120.0	
3 C 270 F	27.00	27.40	C-3	F	3 1/2	7/8	1 3/4	2 3/8	1/2	124.0	4 C 270 F	A-3	F	3 1/2	1 1/2	2	2 3/8	1/2	1/2	138.0	
3 C 300 F	30.00	30.40	C-3	F	3 1/2	7/8	1 3/4	2 3/8	1/2	130.0	4 C 300 F	A-3	F	3 1/2	1 1/2	2	2 3/8	1/2	1/2	166.0	
3 C 360 F	36.00	36.40	C-3	F	3 1/2	7/8	1 3/4	2 3/8	1/2	166.0	4 C 360 F	A-3	F	3 1/2	1 1/2	2	2 3/8	1/2	1/2	176.0	
3 C 440 F	44.00	44.40	C-3	F	3 1/2	7/8	1 3/4	2 3/8	1/2	208.0	4 C 440 J	B-3	J	4 1/2	3/4	1 1/8	4 1/2	1/2	1/2	254.0	
3 C 500 F	50.00	50.40	C-3	F	3 1/2	7/8	1 3/4	2 3/8	1/2	250.0	4 C 500 J	B-3	J	4 1/2	3/4	1 1/8	4 1/2	1/2	1/2	318.0	

5 Groove F = 5 3/8											6 Groove F = 6 3/8										
Part Number	PD		OD	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E ☆	K	L Length Thru Bore	M ☆	Wt. Less Bush	
	C Belt	OD																			
5 C 60 SF	6.00	6.40	A-1	SF	2 1/16	3/16	7/8	2 1/16	3 3/8	14.0	6 C 60 SF	A-1	SF	2 1/16	3/16	7/8	2 1/16	4 3/8	16.0		
5 C 70 SF	7.00	7.40	A-1	SF	2 1/16	1/4	1 1/8	2 1/16	2 1/8	19.0	6 C 70 SF	A-1	SF	2 1/16	1/4	1 1/8	2 1/16	3 3/8	22.0		
5 C 75 SF	7.50	7.90	A-1	SF	2 1/16	1/4	1 1/8	2 1/16	2 1/8	22.0	6 C 75 SF	A-1	SF	2 1/16	1/4	1 1/8	2 1/16	3 3/8	25.0		
5 C 80 E	8.00	8.40	A-1	E	3 1/2	1 1/2	2 3/8	2 3/8	1 1/4	28.0	6 C 80 E	A-1	E	3 1/2	1 1/2	2 3/8	2 3/8	2 1/4	31.0		
5 C 85 E	8.50	8.90	A-1	E	3 1/2	1 1/2	2 3/8	2 3/8	1 1/4	31.0	6 C 85 E	A-1	E	3 1/2	1 1/2	2 3/8	2 3/8	2 1/4	35.0		
5 C 90 E	9.00	9.40	A-1	E	3 1/2	1 1/2	2 3/8	2 3/8	1 1/4	32.0	6 C 90 F	A-1	F	3 1/2	1 1/2	2 3/8	3 3/8	1 1/8	40.0		
5 C 95 E	9.50	9.90	A-1	E	3 1/2	1 1/2	2 3/8	2 3/8	1 1/4	36.0	6 C 95 F	A-1	F	3 1/2	1 1/2	2 3/8	3 3/8	1 1/8	44.0		
5 C 100 E	10.00	10.40	A-2	E	3 1/2	1 1/2	2 3/8	2 3/8	1 1/4	38.0	6 C 100 F	A-1	F	3 1/2	1 1/2	2 3/8	3 3/8	1 1/8	50.0		
5 C 105 E	10.50	10.90	A-2	E	3 1/2	1 1/2	2 3/8	2 3/8	1 1/4	43.0	6 C 105 F	A-1	F	3 1/2	1 1/2	2 3/8	3 3/8	1 1/8	56.0		
5 C 110 E	11.00	11.40	A-1	E	3 1/2	1 1/2	2 3/8	2 3/8	1 1/4	50.0	6 C 110 F	A-1	F	3 1/2	1 1/2	2 3/8	3 3/8	1 1/8	60.0		
5 C 120 E	12.00	12.40	A-1	E	3 1/2	1 1/2	2 3/8	2 3/8	1 1/4	55.0	6 C 120 F	A-1	F	3 1/2	1 1/2	2 3/8	3 3/8	1 1/8	65.0		
5 C 130 E	13.00	13.40	A-3	E	3 1/2	1 1/2	2 3/8	2 3/8	1 1/4	58.0	6 C 130 F	A-3	F	3 1/2	1 1/2	2 3/8	3 3/8	1 1/8	67.0		
5 C 140 E	14.00	14.40	A-3	E	3 1/2	1 1/2	2 3/8	2 3/8	1 1/4	61.0	6 C 140 F	A-3	F	3 1/2	1 1/2	2 3/8	3 3/8	1 1/8	75.0		
5 C 150 E	15.00	15.40	A-3	E	3 1/2	1 1/2	2 3/8	2 3/8	1 1/4	69.0	6 C 150 F	A-3	F	3 1/2	1 1/2	2 3/8	3 3/8	1 1/8	91.0		
5 C 160 E	16.00	16.40	A-3	E	3 1/2	1 1/2	2 3/8	2 3/8	1 1/4	75.0	6 C 160 F	A-3	F	3 1/2	1 1/2	2 3/8	3 3/8	1 1/8	93.0		
5 C 180 E	18.00	18.40	A-3	E	3 1/2	1 1/2	2 3/8	2 3/8	1 1/4	85.0	6 C 180 F	A-3	F	3 1/2	1 1/2	2 3/8	3 3/8	1 1/8	106.0		
5 C 200 F	20.00	20.40	A-3	F	3 1/2	1 1/2	2 3/8	3 3/8	1 1/8	108.0	6 C 200 F	A-3	F	3 1/2	1 1/2	2 3/8	3 3/8	1 1/8	125.0		
5 C 240 F	24.00	24.40	A-3	F	3 1/2	1 1/2	2 3/8	3 3/8	1 1/8	124.0	6 C 240 F	A-3	F	3 1/2	1 1/2	2 3/8	3 3/8	1 1/8	162.0		
5 C 270 F	27.00	27.40	A-3	F	3 1/2	1 1/2	2 3/8	3 3/8	1 1/8	154.0	6 C 270 J	A-3	J	3 1/2	3/4	1 1/8	4 1/2	1 1/2	190.0		
5 C 300 F	30.00	30.40	A-3	F	3 1/2	1 1/2	2 3/8	3 3/8	1 1/8	174.0	6 C 300 J	A-3	J	4 1/2	3/4	1 1/8	4 1/2	1 1/2	229.0		
5 C 360 J	36.00	36.40	A-3	J	4 1/2	3/4	1 1/8	4 1/2	1/2	226.0	6 C 360 J	A-3	J	4 1/2	3/4	1 1/8	4 1/2	1 1/2	270.0		
5 C 440 J	44.00	44.40	A-3	J	4 1/2	3/4	1 1/8	4 1/2	1/2	289.0	6 C 440 J	A-3	J	4 1/2	3/4	1 1/8	4 1/2	1 1/2	301.0		
5 C 500 J	50.00	50.40	A-3	J	4 1/2	3/4	1 1/8	4 1/2	1/2	316.0	6 C 500 M	B-3	M	5 1/2	1/2	1 1/8	6 1/2	1/2	444.0		

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.
 ☆ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

C Conventional Stock QD Sheaves

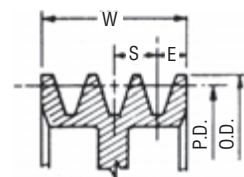
QD Sheaves — C

8 Groove F = 8%											10 Groove F = 10%								
Part Number	PD	OD	Type	Bush	Bush Max. Bore	E	K	L Length Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	K	L Length Thru Bore	M	Wt. Less Bush
	C Belt																		
8 C 70 SF	7.00	7.40	A-1	SF	2 ¹ / ₁₆	2 ¹ / ₁₆	3	2 ¹ / ₁₆	4	35.0	10 C 80 E	A-1	E	3 ¹ / ₂	2 ³ / ₈	3 ¹ / ₄	2 ¹ / ₈	5 ³ / ₈	42.8
8 C 80 E	8.00	8.40	A-1	E	3 ¹ / ₂	2 ³ / ₈	3 ¹ / ₄	2 ¹ / ₈	3 ³ / ₈	41.0	10 C 85 E	A-1	E	3 ¹ / ₂	2 ³ / ₈	3 ¹ / ₄	2 ¹ / ₈	5 ³ / ₈	48.5
8 C 85 E	8.50	8.90	A-1	E	3 ¹ / ₂	2 ³ / ₈	3 ¹ / ₄	2 ¹ / ₈	3 ³ / ₈	41.0	10 C 90 J	A-1	J	4 ¹ / ₂	2 ³ / ₈	3 ³ / ₁₆	4 ¹ / ₂	3 ¹ / ₂	54.0
8 C 90 F	9.00	9.40	A-1	F	3 ³ / ₁₆	2 ³ / ₁₆	3 ³ / ₁₆	3 ³ / ₈	2 ¹ / ₁₆	50.0	10 C 95 J	A-1	J	4 ¹ / ₂	2 ³ / ₈	3 ³ / ₁₆	4 ¹ / ₂	3 ¹ / ₂	60.0
8 C 95 F	9.50	9.90	A-1	F	3 ³ / ₁₆	2 ³ / ₁₆	3 ³ / ₁₆	3 ³ / ₈	2 ¹ / ₁₆	51.0	10 C 100 J	A-1	J	4 ¹ / ₂	2 ³ / ₈	3 ³ / ₁₆	4 ¹ / ₂	3 ¹ / ₂	68.0
8 C 100 F	10.00	10.40	A-1	F	3 ³ / ₁₆	2 ³ / ₁₆	3 ³ / ₁₆	3 ³ / ₈	2 ¹ / ₁₆	60.0	10 C 105 J	A-1	J	4 ¹ / ₂	2 ³ / ₈	3 ³ / ₁₆	4 ¹ / ₂	3 ¹ / ₂	75.0
8 C 105 F	10.50	10.90	A-1	F	3 ³ / ₁₆	2 ³ / ₁₆	3 ³ / ₁₆	3 ³ / ₈	2 ¹ / ₁₆	67.0	10 C 110 J	A-1	J	4 ¹ / ₂	2 ³ / ₈	3 ³ / ₁₆	4 ¹ / ₂	3 ¹ / ₂	90.0
8 C 110 F	11.00	11.40	A-1	F	3 ³ / ₁₆	2 ³ / ₁₆	3 ³ / ₁₆	3 ³ / ₈	2 ¹ / ₁₆	74.0	10 C 120 J	A-1	J	4 ¹ / ₂	2 ³ / ₈	3 ³ / ₁₆	4 ¹ / ₂	3 ¹ / ₂	106.0
8 C 120 F	12.00	12.40	A-1	F	3 ³ / ₁₆	2 ³ / ₁₆	3 ³ / ₁₆	3 ³ / ₈	2 ¹ / ₁₆	87.0	10 C 130 J	A-2	J	4 ¹ / ₂	2 ³ / ₈	3 ³ / ₁₆	4 ¹ / ₂	3 ¹ / ₂	110.0
8 C 130 F	13.00	13.40	A-3	F	3 ³ / ₁₆	2 ³ / ₁₆	3 ³ / ₁₆	3 ³ / ₈	2 ¹ / ₁₆	94.0	10 C 140 J	A-2	J	4 ¹ / ₂	2 ³ / ₈	3 ³ / ₁₆	4 ¹ / ₂	3 ¹ / ₂	124.0
8 C 140 F	14.00	14.40	A-3	F	3 ³ / ₁₆	2 ³ / ₁₆	3 ³ / ₁₆	3 ³ / ₈	2 ¹ / ₁₆	99.0	10 C 150 J	A-2	J	4 ¹ / ₂	2 ³ / ₈	3 ³ / ₁₆	4 ¹ / ₂	3 ¹ / ₂	138.0
8 C 150 F	15.00	15.40	A-2	F	3 ³ / ₁₆	2 ³ / ₁₆	3 ³ / ₁₆	3 ³ / ₈	2 ¹ / ₁₆	111.0	10 C 160 J	A-3	J	4 ¹ / ₂	2 ³ / ₈	3 ³ / ₁₆	4 ¹ / ₂	3 ¹ / ₂	139.0
8 C 160 F	16.00	16.40	A-3	F	3 ³ / ₁₆	2 ³ / ₁₆	3 ³ / ₁₆	3 ³ / ₈	2 ¹ / ₁₆	112.0	10 C 180 J	A-3	J	4 ¹ / ₂	2 ³ / ₈	3 ³ / ₁₆	4 ¹ / ₂	3 ¹ / ₂	168.0
8 C 180 F	18.00	18.40	A-3	F	3 ³ / ₁₆	2 ³ / ₁₆	3 ³ / ₁₆	3 ³ / ₈	2 ¹ / ₁₆	116.0	10 C 200 J	A-3	J	4 ¹ / ₂	2 ³ / ₈	3 ³ / ₁₆	4 ¹ / ₂	3 ¹ / ₂	182.0
8 C 200 J	20.00	20.40	A-3	J	4 ¹ / ₂	3 ¹ / ₈	1 ¹ / ₁₆	4 ¹ / ₂	3 ¹ / ₂	146.0	10 C 240 M	A-3	M	5 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₁₆	6 ¹ / ₄	3 ¹ / ₂	272.0
8 C 240 J	24.00	24.40	A-3	J	4 ¹ / ₂	3 ¹ / ₈	1 ¹ / ₁₆	4 ¹ / ₂	3 ¹ / ₂	195.0	10 C 300 M	A-3	M	5 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₁₆	6 ¹ / ₄	3 ¹ / ₂	355.0
8 C 270 J	27.00	27.40	A-3	J	4 ¹ / ₂	3 ¹ / ₈	1 ¹ / ₁₆	4 ¹ / ₂	3 ¹ / ₂	216.0	10 C 360 M	A-3	M	5 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₁₆	6 ¹ / ₄	3 ¹ / ₂	455.0
8 C 300 J	30.00	30.40	A-3	J	4 ¹ / ₂	3 ¹ / ₈	1 ¹ / ₁₆	4 ¹ / ₂	3 ¹ / ₂	268.0	10 C 440 M	A-3	M	5 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₁₆	6 ¹ / ₄	3 ¹ / ₂	544.0
8 C 360 M	36.00	36.40	A-3	M	5 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₁₆	6 ¹ / ₄	1 ¹ / ₈	364.0	10 C 500 M	A-3	M	5 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₁₆	6 ¹ / ₄	3 ¹ / ₂	622.0
8 C 440 M	44.00	44.40	A-3	M	5 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₁₆	6 ¹ / ₄	1 ¹ / ₈	413.0									
8 C 500 M	50.00	50.40	A-3	M	5 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₁₆	6 ¹ / ₄	1 ¹ / ₈	474.0									

QD Sheaves — C

12 Groove F = 12%										
Part Number	PD	OD	Type	Bush	Bush Max. Bore	E	K	L Thru Bore	M	Wt. Less Bush
	C Belt									
12 C 90 J	9.00	9.40	A-1	J	4 ¹ / ₂	2 ³ / ₈	4 ¹ / ₁₆	4 ¹ / ₂	5	63.0
12 C 95 J	9.50	9.90	A-1	J	4 ¹ / ₂	2 ³ / ₈	4 ¹ / ₁₆	4 ¹ / ₂	5	75.0
12 C 100 J	10.00	10.40	A-1	J	4 ¹ / ₂	2 ³ / ₈	4 ¹ / ₁₆	4 ¹ / ₂	5	84.0
12 C 105 J	10.50	10.90	A-1	J	4 ¹ / ₂	2 ³ / ₈	4 ¹ / ₁₆	4 ¹ / ₂	5	86.0
12 C 110 J	11.00	11.40	A-1	J	4 ¹ / ₂	2 ³ / ₈	4 ¹ / ₁₆	4 ¹ / ₂	5	97.0
12 C 120 J	12.00	12.40	A-1	J	4 ¹ / ₂	2 ³ / ₈	4 ¹ / ₁₆	4 ¹ / ₂	5	119.0
12 C 130 J	13.00	13.40	A-2	J	4 ¹ / ₂	2 ³ / ₈	4 ¹ / ₁₆	4 ¹ / ₂	5	125.0
12 C 140 J	14.00	14.40	A-2	J	4 ¹ / ₂	2 ³ / ₈	4 ¹ / ₁₆	4 ¹ / ₂	5	139.0
12 C 150 J	15.00	15.40	A-2	J	4 ¹ / ₂	2 ³ / ₈	4 ¹ / ₁₆	4 ¹ / ₂	5	156.0
12 C 160 J	16.00	16.40	A-3	J	4 ¹ / ₂	2 ³ / ₈	4 ¹ / ₁₆	4 ¹ / ₂	5	175.0
12 C 180 J	18.00	18.40	A-3	J	4 ¹ / ₂	2 ³ / ₈	4 ¹ / ₁₆	4 ¹ / ₂	5	185.0
12 C 200 M	20.00	20.40	A-3	M	5 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₁₆	6 ¹ / ₄	5 ¹ / ₂	228.0
12 C 240 M	24.00	24.40	A-3	M	5 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₁₆	6 ¹ / ₄	5 ¹ / ₂	287.0
12 C 300 M	30.00	30.40	A-3	M	5 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₁₆	6 ¹ / ₄	5 ¹ / ₂	350.0
12 C 360 M	36.00	36.40	A-3	M	5 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₁₆	6 ¹ / ₄	5 ¹ / ₂	430.0
12 C 440 M	44.00	44.40	A-3	M	5 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₁₆	6 ¹ / ₄	5 ¹ / ₂	565.0
12 C 500 M	50.00	50.40	A-3	M	5 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₁₆	6 ¹ / ₄	5 ¹ / ₂	595.0

Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.



Combination Groove Dimensions

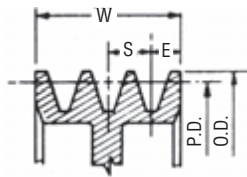
Belt Section	E	S	OD
"C"	1 ¹ / ₁₆	1	P.D. + .40

$$W = S(N-1) + 2E$$

N = No. of Grooves

QD Sheaves — D

3 Groove F = 4 ⁵ / ₁₆											4 Groove F = 6 ¹ / ₁₆								
Part Number	PD	OD	Type	Bush	Bush Max. Bore	E	K	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	K	L Thru Bore	M	Wt. Less Bush
	D Belt																		
3 D 120 F	12.0	12.6	A-2	F	3 ³ / ₁₆	1/2	1 1/2	3 3/8	1/2	58.0	4 D 120 F	A-2	F	3 ³ / ₁₆	1 1/16	2 5/16	3 3/8	1 1/8	68.0
3 D 130 F	13.0	13.6	A-2	F	3 ³ / ₁₆	1/2	1 1/2	3 3/8	1/2	63.0	4 D 130 F	A-2	F	3 ³ / ₁₆	1 1/16	2 5/16	3 3/8	1 1/8	78.0
3 D 135 F	13.5	14.1	A-2	F	3 ³ / ₁₆	1/2	1 1/2	3 3/8	1/2	68.0	4 D 135 F	A-2	F	3 ³ / ₁₆	1 1/16	2 5/16	3 3/8	1 1/8	82.0
3 D 140 F	14.0	14.6	A-2	F	3 ³ / ₁₆	1/2	1 1/2	3 3/8	1/2	71.0	4 D 140 F	A-2	F	3 ³ / ₁₆	1 1/16	2 5/16	3 3/8	1 1/8	91.0
3 D 145 F	14.5	15.1	A-2	F	3 ³ / ₁₆	1/2	1 1/2	3 3/8	1/2	82.0	4 D 145 F	A-2	F	3 ³ / ₁₆	1 1/16	2 5/16	3 3/8	1 1/8	93.0
3 D 150 F	15.0	15.6	A-2	F	3 ³ / ₁₆	1/2	1 1/2	3 3/8	1/2	86.0	4 D 150 F	A-2	F	3 ³ / ₁₆	1 1/16	2 5/16	3 3/8	1 1/8	99.0
3 D 155 F	15.5	16.1	A-2	F	3 ³ / ₁₆	1/2	1 1/2	3 3/8	1/2	93.0	4 D 155 F	A-2	F	3 ³ / ₁₆	1 1/16	2 5/16	3 3/8	1 1/8	111.0
3 D 160 F	16.0	16.6	A-2	F	3 ³ / ₁₆	1/2	1 1/2	3 3/8	1/2	95.0	4 D 160 F	A-2	F	3 ³ / ₁₆	1 1/16	2 5/16	3 3/8	1 1/8	122.0
3 D 180 J	18.0	18.6	A-3	J	4 1/2	0	1 3/8	4 1/2	1/2	105.0	4 D 170 J	A-2	J	4 1/2	1 1/8	2 5/8	4 1/2	3/8	136.0
3 D 200 J	20.0	20.6	A-2	J	4 1/2	0	1 3/8	4 1/2	1/2	148.0	4 D 180 J	A-3	J	4 1/2	1 1/8	2 5/8	4 1/2	3/8	141.0
3 D 220 J	22.0	22.6	A-3	J	4 1/2	0	1 3/8	4 1/2	1/2	164.0	4 D 200 J	A-2	J	4 1/2	3/8	1 5/8	4 1/2	1 3/8	167.0
3 D 270 J	27.0	27.6	A-3	J	4 1/2	0	1 3/8	4 1/2	1/2	180.0	4 D 220 J	A-3	J	4 1/2	3/8	1 5/8	4 1/2	1 3/8	183.0
3 D 330 J	33.0	33.6	A-3	J	4 1/2	0	1 3/8	4 1/2	1/2	195.0	4 D 270 J	A-3	J	4 1/2	3/8	1 5/8	4 1/2	1 3/8	222.0
3 D 400 J	40.0	40.6	A-3	J	4 1/2	0	1 3/8	4 1/2	1/2	260.0	4 D 330 M	B-3	M	5 1/2	1/2	1 3/4	6 1/2	1 3/8	315.0
											4 D 400 M	B-3	M	5 1/2	1/2	1 3/4	6 1/2	1 3/8	337.0



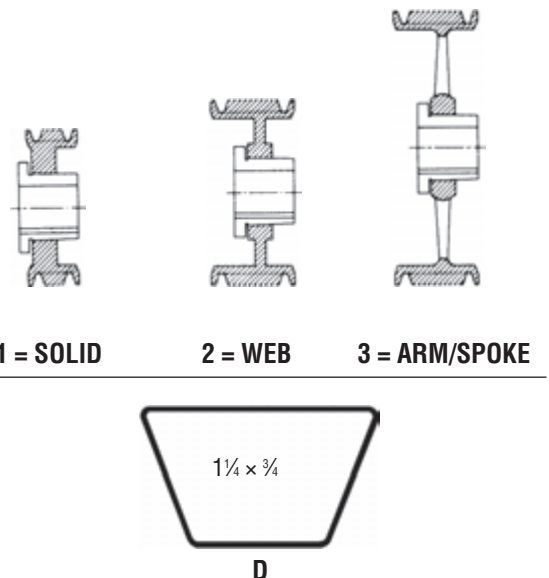
Groove Dimensions

Belt Section	E	S	O.D.
"D"	1/2	1 1/16	P.D. + .60

W = S(N-1) + 2E
N = No. of Grooves

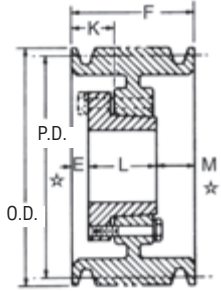
QD Sheaves — D

5 Groove F = 7 1/2											
Part Number	PD	OD	Belt	Type	Bush	Bush Max. Bore	E	K	L Thru Bore	M	Wt. Less Bush
	D										
5 D 120 F	12.0	12.6	A-2	F	3 ³ / ₁₆	2 1/16	3 3/16	3 3/8	1 1/16	87.0	
5 D 130 F	13.0	13.6	A-2	F	3 ³ / ₁₆	2 1/16	3 3/16	3 3/8	1 1/16	88.0	
5 D 135 F	13.5	14.1	A-2	F	3 ³ / ₁₆	2 1/16	3 3/16	3 3/8	1 1/16	92.0	
5 D 140 F	14.0	14.6	A-2	F	3 ³ / ₁₆	2 1/16	3 3/16	3 3/8	1 1/16	96.0	
5 D 145 F	14.5	15.1	A-2	F	3 ³ / ₁₆	2 1/16	3 3/16	3 3/8	1 1/16	111.0	
5 D 150 F	15.0	15.6	A-2	F	3 ³ / ₁₆	2 1/16	3 3/16	3 3/8	1 1/16	115.0	
5 D 155 F	15.5	16.1	A-2	F	3 ³ / ₁₆	2 1/16	3 3/16	3 3/8	1 1/16	121.0	
5 D 160 F	16.0	16.6	A-2	F	3 ³ / ₁₆	2 1/16	3 3/16	3 3/8	1 1/16	128.0	
5 D 170 J	17.0	17.6	A-2	J	4 1/2	3/8	1 1/8	4 1/2	2 3/8	135.0	
5 D 180 J	18.0	18.6	A-3	J	4 1/2	3/8	1 1/8	4 1/2	2 3/8	148.0	
5 D 200 J	20.0	20.6	A-3	J	4 1/2	3/8	1 1/8	4 1/2	2 3/8	184.0	
5 D 220 J	22.0	22.6	A-3	J	4 1/2	3/8	1 1/8	4 1/2	2 3/8	202.0	
5 D 270 M	27.0	27.6	A-3	M	5 1/2	1/2	1 1/8	6 1/4	1/4	250.0	
5 D 330 M	33.0	33.6	A-3	M	5 1/2	1/2	1 1/8	6 1/4	1/4	280.0	
5 D 400 M	40.0	40.6	A-3	M	5 1/2	1/2	1 1/8	6 1/4	1/4	380.0	

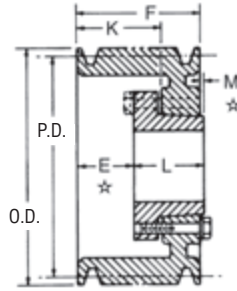


Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 an B-4 for additional bushing dimensions.

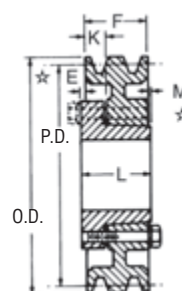
D Conventional Stock QD Sheaves



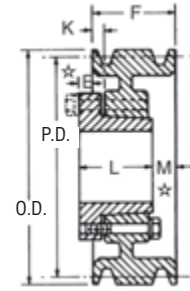
TYPE A



TYPE B



TYPE C



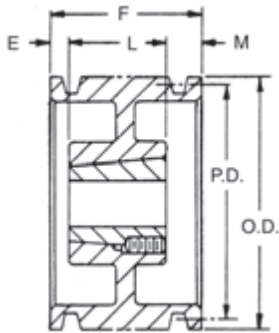
TYPE D

QD Sheaves — D

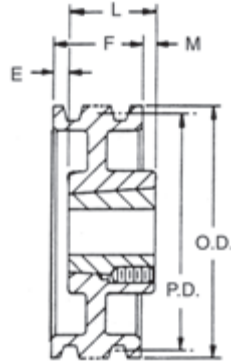
6 Groove										8 Groove									
F = 8 ¹⁵ / ₁₆										F = 11 ¹³ / ₁₆									
Part Number	PD D Belt	OD	Type	Bush	Bush Max. Bore	E	K	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	K	L Thru Bore	M	Wt. Less Bush
6 D 130 J	13.00	13.60	A-1	J	4 ¹ / ₂	2 ³ / ₈	3 ³ / ₈	4 ¹ / ₂	2 ¹ / ₁₆	122.0	8 D 130 J	A-1	J	4 ¹ / ₂	2 ³ / ₈	3 ³ / ₈	4 ¹ / ₂	4 ¹ / ₁₆	147.0
6 D 135 J	13.50	14.10	A-1	J	4 ¹ / ₂	2 ³ / ₈	3 ³ / ₈	4 ¹ / ₂	2 ¹ / ₁₆	125.0	8 D 135 J	A-1	J	4 ¹ / ₂	2 ³ / ₈	3 ³ / ₈	4 ¹ / ₂	4 ¹ / ₁₆	150.0
6 D 140 J	14.00	14.60	A-2	J	4 ¹ / ₂	2 ³ / ₈	3 ³ / ₈	4 ¹ / ₂	2 ¹ / ₁₆	128.0	8 D 140 J	A-1	J	4 ¹ / ₂	2 ³ / ₈	3 ³ / ₈	4 ¹ / ₂	4 ¹ / ₁₆	155.0
6 D 145 J	14.50	15.10	A-2	J	4 ¹ / ₂	2 ³ / ₈	3 ³ / ₈	4 ¹ / ₂	2 ¹ / ₁₆	130.0	8 D 145 J	A-1	J	4 ¹ / ₂	2 ³ / ₈	3 ³ / ₈	4 ¹ / ₂	4 ¹ / ₁₆	160.0
6 D 150 J	15.00	15.60	A-2	J	4 ¹ / ₂	2 ³ / ₈	3 ³ / ₈	4 ¹ / ₂	2 ¹ / ₁₆	136.0	8 D 150 J	A-2	J	4 ¹ / ₂	2 ³ / ₈	3 ³ / ₈	4 ¹ / ₂	4 ¹ / ₁₆	176.0
6 D 155 J	15.50	16.10	A-2	J	4 ¹ / ₂	2 ³ / ₈	3 ³ / ₈	4 ¹ / ₂	2 ¹ / ₁₆	139.0	8 D 155 J	A-2	J	4 ¹ / ₂	2 ³ / ₈	3 ³ / ₈	4 ¹ / ₂	4 ¹ / ₁₆	180.0
6 D 160 J	16.00	16.60	A-2	J	4 ¹ / ₂	2 ³ / ₈	3 ³ / ₈	4 ¹ / ₂	2 ¹ / ₁₆	141.0	8 D 160 J	A-2	J	4 ¹ / ₂	2 ³ / ₈	3 ³ / ₈	4 ¹ / ₂	4 ¹ / ₁₆	200.0
6 D 170 J	17.00	17.60	A-2	J	4 ¹ / ₂	2 ³ / ₈	3 ³ / ₈	4 ¹ / ₂	2 ¹ / ₁₆	154.0	8 D 170 M	A-1	M	5 ¹ / ₂	2 ¹ / ₂	3 ¹ / ₁₆	6 ¹ / ₂	2 ¹ / ₁₆	225.0
6 D 180 J	18.00	18.60	A-2	J	4 ¹ / ₂	2 ³ / ₈	3 ³ / ₈	4 ¹ / ₂	2 ¹ / ₁₆	172.0	8 D 180 M	A-2	M	5 ¹ / ₂	2 ¹ / ₂	3 ¹ / ₁₆	6 ¹ / ₂	2 ¹ / ₁₆	250.0
6 D 200 J	20.00	20.60	A-2	J	4 ¹ / ₂	2 ³ / ₈	3 ³ / ₈	4 ¹ / ₂	2 ¹ / ₁₆	183.0	8 D 200 M	A-2	M	5 ¹ / ₂	2 ¹ / ₂	3 ¹ / ₁₆	6 ¹ / ₂	2 ¹ / ₁₆	270.0
6 D 220 M	22.00	22.60	A-2	M	5 ¹ / ₂	1 ¹ / ₂	1 ¹⁵ / ₁₆	6 ¹ / ₂	1 ¹ / ₁₆	272.0	8 D 220 M	A-2	M	5 ¹ / ₂	1 ¹ / ₂	1 ¹⁵ / ₁₆	6 ¹ / ₂	4 ¹ / ₁₆	316.0
6 D 270 M	27.00	27.60	A-3	M	5 ¹ / ₂	1 ¹ / ₂	1 ¹⁵ / ₁₆	6 ¹ / ₂	1 ¹ / ₁₆	280.0	8 D 270 N	A-3	M	5 ¹ / ₂	1 ¹ / ₂	1 ¹⁵ / ₁₆	6 ¹ / ₂	4 ¹ / ₁₆	440.0
6 D 330 M	33.00	33.60	A-3	M	5 ¹ / ₂	1 ¹ / ₂	1 ¹⁵ / ₁₆	6 ¹ / ₂	1 ¹ / ₁₆	356.0	8 D 330 N	A-3	M	5 ¹ / ₂	1 ¹ / ₂	1 ¹⁵ / ₁₆	6 ¹ / ₂	4 ¹ / ₁₆	458.0
6 D 400 M	40.00	40.60	A-3	M	5 ¹ / ₂	1 ¹ / ₂	1 ¹⁵ / ₁₆	6 ¹ / ₂	1 ¹ / ₁₆	415.0	8 D 400 N	A-3	N	5 ¹ / ₂	1 ¹ / ₂	2 ¹ / ₄	8 ¹ / ₂	3 ³ / ₁₆	638.0
6 D 440 M	44.00	44.60	A-3	M	5 ¹ / ₂	1 ¹ / ₂	1 ¹⁵ / ₁₆	6 ¹ / ₂	1 ¹ / ₁₆	536.0	8 D 440 N	A-3	N	6	1 ¹ / ₂	2 ¹ / ₄	8 ¹ / ₂	3 ³ / ₁₆	616.0
6 D 480 M	48.00	48.60	A-3	M	5 ¹ / ₂	1 ¹ / ₂	1 ¹⁵ / ₁₆	6 ¹ / ₂	1 ¹ / ₁₆	572.0	8 D 480 N	A-3	N	6	1 ¹ / ₂	2 ¹ / ₄	8 ¹ / ₂	3 ³ / ₁₆	755.0
6 D 580 N	58.00	58.60	A-3	N	6	1 ¹ / ₂	2 ¹ / ₄	8 ¹ / ₂	3 ¹ / ₁₆	1006.0	8 D 580 N	A-3	N	6	1 ¹ / ₂	2 ¹ / ₄	8 ¹ / ₂	3 ³ / ₁₆	1112.0

10 Groove										12 Groove									
F = 14 ¹¹ / ₁₆										F = 17 ¹³ / ₁₆									
Part Number	PD D Belt	OD	Type	Bush	Bush Max. Bore	E	K	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	K	L Thru Bore	M	Wt. Less Bush
10 D 125 M	12.50	13.10	A-1	M	5 ¹ / ₂	2 ³ / ₈	3 ³ / ₈	6 ¹ / ₂	5 ¹ / ₁₆	178.0	12 D 130 M	A-1	M	5 ¹ / ₂	3 ¹ / ₂	4 ¹ / ₁₆	6 ¹ / ₂	7 ¹ / ₁₆	219.0
10 D 130 M	13.00	13.60	A-1	M	5 ¹ / ₂	2 ³ / ₈	3 ³ / ₈	6 ¹ / ₂	5 ¹ / ₁₆	196.0	12 D 135 M	A-1	M	5 ¹ / ₂	3 ¹ / ₂	4 ¹ / ₁₆	6 ¹ / ₂	7 ¹ / ₁₆	242.0
10 D 135 M	13.50	14.10	A-1	M	5 ¹ / ₂	2 ³ / ₈	3 ³ / ₈	6 ¹ / ₂	5 ¹ / ₁₆	207.0	12 D 140 M	A-1	M	5 ¹ / ₂	3 ¹ / ₂	4 ¹ / ₁₆	6 ¹ / ₂	7 ¹ / ₁₆	246.0
10 D 140 M	14.00	14.60	A-1	M	5 ¹ / ₂	2 ³ / ₈	3 ³ / ₈	6 ¹ / ₂	5 ¹ / ₁₆	225.0	12 D 145 M	A-1	M	5 ¹ / ₂	3 ¹ / ₂	4 ¹ / ₁₆	6 ¹ / ₂	7 ¹ / ₁₆	266.0
10 D 145 M	14.50	15.10	A-1	M	5 ¹ / ₂	2 ³ / ₈	3 ³ / ₈	6 ¹ / ₂	5 ¹ / ₁₆	238.0	12 D 150 M	A-1	M	5 ¹ / ₂	3 ¹ / ₂	4 ¹ / ₁₆	6 ¹ / ₂	7 ¹ / ₁₆	287.0
10 D 150 M	15.00	15.60	A-1	M	5 ¹ / ₂	2 ³ / ₈	3 ³ / ₈	6 ¹ / ₂	5 ¹ / ₁₆	260.0	12 D 155 M	A-1	M	5 ¹ / ₂	3 ¹ / ₂	4 ¹ / ₁₆	6 ¹ / ₂	7 ¹ / ₁₆	308.0
10 D 155 M	15.50	16.10	A-1	M	5 ¹ / ₂	2 ³ / ₈	3 ³ / ₈	6 ¹ / ₂	5 ¹ / ₁₆	279.0	12 D 160 M	A-1	M	5 ¹ / ₂	3 ¹ / ₂	4 ¹ / ₁₆	6 ¹ / ₂	7 ¹ / ₁₆	325.0
10 D 160 M	16.00	16.60	A-1	M	5 ¹ / ₂	2 ³ / ₈	3 ³ / ₈	6 ¹ / ₂	5 ¹ / ₁₆	292.0	12 D 170 M	A-1	M	5 ¹ / ₂	3 ¹ / ₂	4 ¹ / ₁₆	6 ¹ / ₂	7 ¹ / ₁₆	330.0
10 D 170 M	17.00	17.60	A-1	M	5 ¹ / ₂	2 ³ / ₈	3 ³ / ₈	6 ¹ / ₂	5 ¹ / ₁₆	330.0	12 D 180 M	A-1	M	5 ¹ / ₂	3 ¹ / ₂	4 ¹ / ₁₆	6 ¹ / ₂	7 ¹ / ₁₆	340.0
10 D 180 M	18.00	18.60	A-1	M	5 ¹ / ₂	2 ³ / ₈	3 ³ / ₈	6 ¹ / ₂	5 ¹ / ₁₆	340.0	12 D 200 M	A-2	M	5 ¹ / ₂	3 ¹ / ₂	4 ¹ / ₁₆	6 ¹ / ₂	7 ¹ / ₁₆	355.0
10 D 200 M	20.00	20.60	A-2	M	5 ¹ / ₂	2 ³ / ₈	3 ³ / ₈	6 ¹ / ₂	5 ¹ / ₁₆	355.0	12 D 220 M	A-2	M	5 ¹ / ₂	2 ¹ / ₂	3 ¹ / ₁₆	6 ¹ / ₂	8 ¹ / ₁₆	392.0
10 D 220 M	22.00	22.60	A-3	M	5 ¹ / ₂	1 ¹ / ₂	2 ¹ / ₁₆	6 ¹ / ₂	6 ¹ / ₁₆	348.0	12 D 270 M	A-3	N	6	2 ¹ / ₂	4 ¹ / ₁₆	6 ¹ / ₂	6 ¹ / ₁₆	505.0
10 D 270 M	27.00	27.60	A-3	M	5 ¹ / ₂	1 ¹ / ₂	2 ¹ / ₁₆	6 ¹ / ₂	6 ¹ / ₁₆	434.0	12 D 330 M	A-3	N	6	2 ¹ / ₂	4 ¹ / ₁₆	6 ¹ / ₂	6 ¹ / ₁₆	619.0
10 D 330 N	33.00	33.60	A-3	N	6	1 ¹ / ₂	3 ¹ / ₈	8 ¹ / ₂	5 ¹ / ₁₆	502.0	12 D 400 P	A-3	P	6 ¹ / ₂	1 ¹ / ₂	2 ¹ / ₄	8 ¹ / ₂	7 ¹ / ₁₆	946.0
10 D 400 N	40.00	40.60	A-3	N	6	1 ¹ / ₂	3 ¹ / ₈	8 ¹ / ₂	5 ¹ / ₁₆	727.0	12 D 480 P	A-3	P	6 ¹ / ₂	1 ¹ / ₂	2 ¹ / ₄	8 ¹ / ₂	7 ¹ / ₁₆	1155.0
10 D 480 P	48.00	48.60	A-3	P	6 ¹ / ₂	1 ¹ / ₂	2 ¹ / ₄	9 ¹ / ₂	4 ¹ / ₁₆	755.0	12 D 580 P	A-3	P	6 ¹ / ₂	1 ¹ / ₂	2 ¹ / ₄	8 ¹ / ₂	7 ¹ / ₁₆	1576.0
10 D 580 P	58.00	58.60	A-3	P	6 ¹ / ₂	1 ¹ / ₂	2 ¹ / ₄	9 ¹ / ₂	4 ¹ / ₁₆	1286.0									

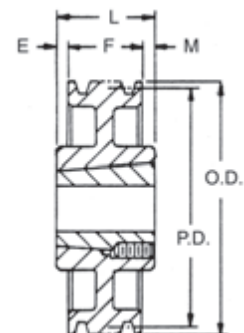
★ E and M dimensions are nominal and will vary depending on shaft tolerances. See page B-3 and B-4 for additional bushing dimensions.



TYPE A



TYPE B



TYPE C



1 = SOLID



2 = WEB



3 = ARM/SPOKE



3V

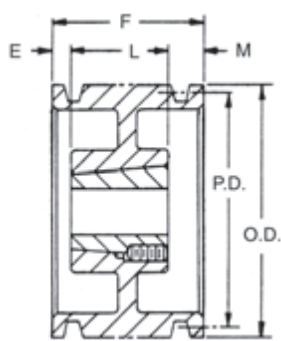
Taper Bushed Sheaves — 3V

1 Groove F = 1/16*										2 Groove F = 1/32							
Part Number	Diameters		Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush
	OD	Pitch 3V															
1 3V 265 TB	2.65	2.60	A-1	1108	1/4	7/32	7/8	0	.75	2 3V 265 TB	A-1	1108	1/4	7/32	7/8	0	.75
1 3V 280 TB	2.80	2.75	A-1	1108	1/4	7/32	7/8	0	.85	2 3V 280 TB	A-1	1108	1/4	7/32	7/8	0	.90
1 3V 300 TB	3.00	2.95	A-1	1108	1/4	7/32	7/8	0	1.00	2 3V 300 TB	A-1	1210	1/4	1/2	1	0	1.40
1 3V 315 TB	3.15	3.10	A-1	1108	1/4	7/32	7/8	0	1.25	2 3V 315 TB	A-1	1210	1/4	1/2	1	0	1.60
1 3V 335 TB	3.35	3.30	A-1	1610	1/4	0	1	0	1.50	2 3V 335 TB	A-1	1610	1/4	1/2	1	0	1.70
1 3V 365 TB	3.65	3.60	A-1	1610	1/4	0	1	0	2.00	2 3V 365 TB	A-1	1610	1/4	1/2	1 1/2	0	2.00
1 3V 412 TB	4.12	4.07	B-1	1610	1/4	0	1	13/32	2.25	2 3V 412 TB	A-1	1610	1/4	0	1	0	2.10
1 3V 450 TB	4.50	4.45	B-1	1610	1/4	0	1	13/32	3.00	2 3V 450 TB	A-1	1610	1/4	0	1	0	2.70
1 3V 475 TB	4.75	4.70	B-1	1610	1/4	0	1	13/32	3.25	2 3V 475 TB	A-1	1610	1/4	0	1	0	3.00
1 3V 500 TB	5.00	4.95	B-1	1610	1/4	0	1	13/32	3.50	2 3V 500 TB	A-1	1610	1/4	0	1	0	4.00
1 3V 530 TB	5.30	5.25	B-1	1610	1/4	0	1	13/32	3.75	2 3V 530 TB	A-1	1610	1/4	0	1	0	5.00
1 3V 560 TB	5.60	5.55	B-1	1610	1/4	0	1	13/32	4.00	2 3V 560 TB	A-1	1610	1/4	0	1	0	6.00
1 3V 600 TB	6.00	5.95	B-1	1610	1/4	0	1	13/32	5.00	2 3V 600 TB	A-1	1610	1/4	0	1	0	7.00
1 3V 650 TB	6.50	6.45	B-1	1610	1/4	0	1	13/32	6.00	2 3V 650 TB	A-1	1610	1/4	0	1	0	8.00
1 3V 690 TB	6.90	6.85	B-1	1610	1/4	0	1	13/32	7.00	2 3V 690 TB	A-1	1610	1/4	0	1	0	9.00
1 3V 800 TB	8.00	7.95	B-2	2517	2/4	0	1 1/4	1 1/16	9.00	2 3V 800 TB	B-2	2517	2/4	0	1 3/4	2 1/2	10.0
1 3V 1060 TB	10.60	10.55	B-2	2517	2/4	0	1 3/4	1 1/16	13.00	2 3V 1060 TB	B-2	2517	2/4	0	1 3/4	2 1/2	14.0
1 3V 1400 TB*	14.00	13.95	B-3	2517	2/4	0	1 3/4	1 5/16	15.00	2 3V 1400 TB	B-3	2517	2/4	0	1 3/4	2 1/2	18.0
1 3V 1900 TB*	19.00	18.95	B-3	3020	3	0	2	1 3/4	27.00	2 3V 1900 TB	B-3	3020	3	0	2	2 1/2	32.0
	25.00	24.95								2 3V 2500 TB	C-3	3020	3	1/8	2	2 1/2	45.0

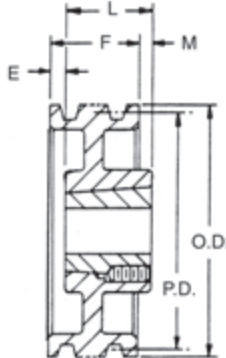
* F = 1/16" thru 1 3V 1400 TB

F = 1/32" thru 1 3V 1400 TB and 1 3V 1900 TB

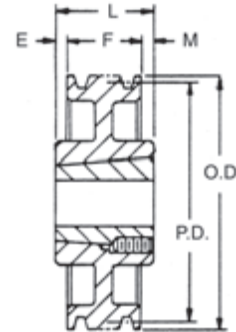
3V Hi-Cap Wedge Stock Taper Bushed Sheaves



TYPE A



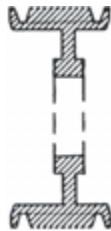
TYPE B



TYPE C



1 = SOLID



2 = WEB



3 = ARM/SPOKE

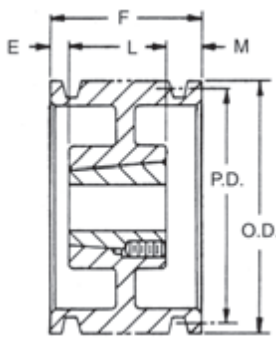


3V

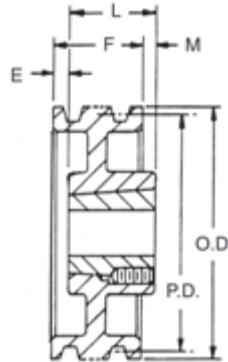
Taper Bushed Sheaves — 3V

3 Groove F = 1 1/2										4 Groove F = 1 29/32							
Part Number	Diameter		Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush
	OD	Pitch 3V																Part Number	Part Number
3 3V 265 TB	2.65	2.60	A-1	1108	1 1/8	5/8	7/8	0	1.0	4 3V 265 TB	A-1	1108	1 1/8	1 1/2	7/8	0	1.2
3 3V 280 TB	2.80	2.75	A-1	1108	1 1/8	5/8	7/8	0	1.1	4 3V 280 TB	A-1	1108	1 1/8	1 1/2	7/8	0	1.3
3 3V 300 TB	3.00	2.95	A-1	1210	1 1/4	29/64	1	0	1.8	4 3V 300 TB	A-1	1210	1 1/4	1 5/16	1	0	2.1
3 3V 315 TB	3.15	3.10	A-1	1210	1 1/4	29/64	1	0	2.0	4 3V 315 TB	A-1	1210	1 1/4	1 5/16	1	0	2.2
3 3V 335 TB	3.35	3.30	A-1	1610	1 1/2	29/64	1	0	2.3	4 3V 335 TB	A-1	1610	1 1/2	1 5/16	1	0	2.4
3 3V 365 TB	3.65	3.60	A-1	1610	1 1/2	29/64	1	0	2.6	4 3V 365 TB	A-1	1610	1 1/2	29/64	1	0	2.8
3 3V 412 TB	4.12	4.07	A-1	1610	1 1/2	1	0	3.0	4 3V 412 TB	A-1	1610	1 1/2	29/64	1	0	3.0	
3 3V 450 TB	4.50	4.45	A-1	1610	1 1/2	1/2	1	0	3.2	4 3V 450 TB	A-1	1610	1 1/2	29/64	1	0	4.0
3 3V 475 TB	4.75	4.70	A-1	1610	1 1/2	1/2	1	0	4.0	4 3V 475 TB	A-1	1610	1 1/2	29/64	1	0	5.0
3 3V 500 TB	5.00	4.95	A-1	1610	1 1/2	1/2	1	0	4.5	4 3V 500 TB	A-1	1610	1 1/2	29/64	1	0	5.5
3 3V 530 TB	5.30	5.25	A-1	1610	1 1/2	1/2	1	0	5.0	4 3V 530 TB	A-1	1610	1 1/2	29/64	1	0	6.0
3 3V 560 TB	5.60	5.55	A-1	1610	1 1/2	1/2	1	0	6.0	4 3V 560 TB	A-1	1610	1 1/2	29/64	1	0	7.0
3 3V 600 TB	6.00	5.95	B-1	2517	2 1/2	5/8	1 3/4	13/32	7.0	4 3V 600 TB	A-1	2517	2 1/2	5/8	1 3/4	0	8.0
3 3V 650 TB	6.50	6.45	B-1	2517	2 1/2	5/8	1 3/4	13/32	9.0	4 3V 650 TB	A-1	2517	2 1/2	5/8	1 3/4	0	10.0
3 3V 690 TB	6.90	6.85	B-1	2517	2 1/2	5/8	1 3/4	13/32	10.0	4 3V 690 TB	A-1	2517	2 1/2	5/8	1 3/4	0	12.0
3 3V 800 TB	8.00	7.95	B-1	2517	2 1/2	5/8	1 3/4	13/32	15.0	4 3V 800 TB	A-1	2517	2 1/2	5/8	1 3/4	0	18.0
3 3V 1060 TB	10.60	10.55	B-2	2517	2 1/2	0	1 3/4	1/4	18.0	4 3V 1060 TB	A-2	2517	2 1/2	5/8	1 3/4	0	19.0
3 3V 1400 TB	14.00	13.95	B-3	2517	2 1/2	0	1 3/4	1/4	20.0	4 3V 1400 TB	A-3	2517	2 1/2	0	1 3/4	5/64	22.0
3 3V 1900 TB	19.00	18.95	B-3	3020	3	0	2	1/2	36.0	4 3V 1900 TB	C-3	3020	3	0	2	3/64	45.0
3 3V 2500 TB	25.00	24.95	B-3	3020	3	0	2	1/2	47.0	4 3V 2500 TB	C-3	3020	3	0	2	3/64	63.0
3 3V 3350 TB	33.50	33.45	B-3	3020	3	1/4	2	1/4	76.0	4 3V 3350 TB	C-3	3030	3	3/64	3	3/64	80.0

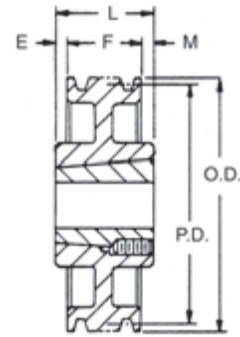
Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-8 thru B-10 for additional bushing dimensions.



TYPE A



TYPE B



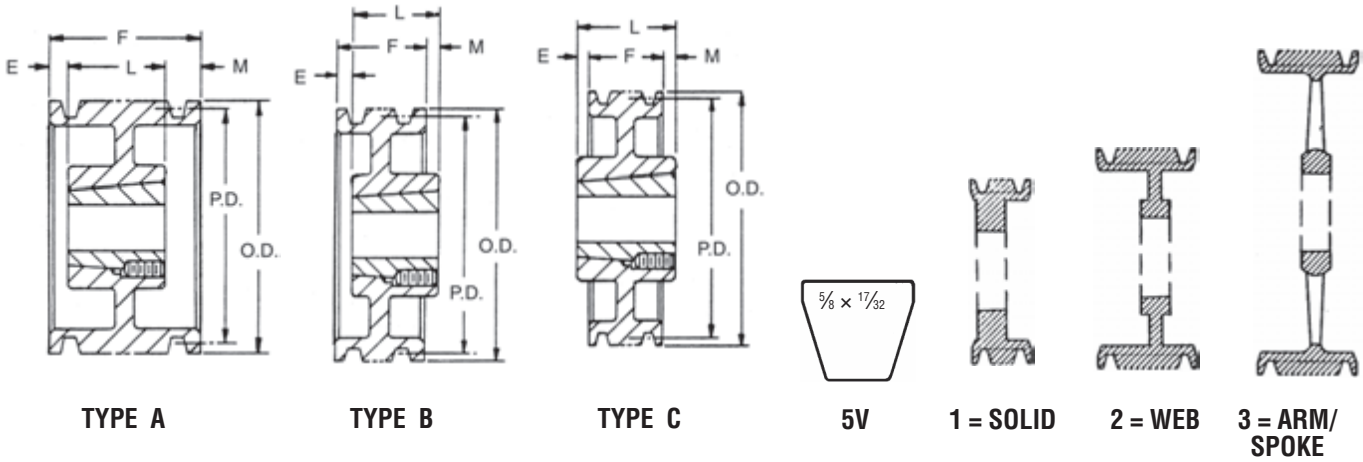
TYPE C

Taper Bushed Sheaves — 3V

5 Groove										6 Groove							
F = 2 ⁵ / ₁₆										F = 2 ²³ / ₃₂							
Part Number	Diameter		Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush
	OD	Pitch 3V															
5 3V 450 TB	4.50	4.45	A-1	1615	1 ¹ / ₂	0	1 ¹ / ₂	1 ³ / ₁₆	4.0	6 3V 475 TB	A-1	2517	2 ¹ / ₂	3 ³ / ₃₂	1 ¹ / ₄	0	4.4
5 3V 475 TB	4.75	4.70	A-1	2517	2 ¹ / ₂	3 ¹ / ₁₆	1 ¹ / ₄	0	4.0	6 3V 500 TB	A-1	2517	2 ¹ / ₂	3 ³ / ₃₂	1 ¹ / ₄	0	5.4
5 3V 500 TB	5.00	4.95	A-1	2517	2 ¹ / ₂	3 ¹ / ₁₆	1 ¹ / ₄	0	4.8	6 3V 530 TB	A-1	2517	2 ¹ / ₂	3 ³ / ₃₂	1 ¹ / ₄	0	6.5
5 3V 530 TB	5.30	5.25	A-1	2517	2 ¹ / ₂	3 ¹ / ₁₆	1 ¹ / ₄	0	5.9	6 3V 560 TB	A-1	2517	2 ¹ / ₂	3 ³ / ₃₂	1 ¹ / ₄	0	7.7
5 3V 560 TB	5.60	5.55	A-1	2517	2 ¹ / ₂	3 ¹ / ₁₆	1 ¹ / ₄	0	7.0	6 3V 600 TB	A-1	2517	2 ¹ / ₂	3 ³ / ₃₂	1 ¹ / ₄	0	9.5
5 3V 600 TB	6.00	5.95	A-1	2517	2 ¹ / ₂	3 ¹ / ₁₆	1 ¹ / ₄	0	8.0	6 3V 650 TB	A-1	2517	2 ¹ / ₂	3 ³ / ₃₂	1 ¹ / ₄	0	12.0
5 3V 650 TB	6.50	6.45	A-1	2517	2 ¹ / ₂	3 ¹ / ₁₆	1 ¹ / ₄	0	11.0	6 3V 690 TB	A-1	2517	2 ¹ / ₂	3 ³ / ₃₂	1 ¹ / ₄	0	13.0
5 3V 690 TB	6.90	6.85	A-1	2517	2 ¹ / ₂	3 ¹ / ₁₆	1 ¹ / ₄	0	13.0	6 3V 800 TB	A-1	2517	2 ¹ / ₂	3 ³ / ₃₂	1 ¹ / ₄	0	20.0
5 3V 800 TB	8.00	7.95	A-1	2517	2 ¹ / ₂	3 ¹ / ₁₆	1 ¹ / ₄	0	19.0	6 3V 1060 TB	A-2	2517	2 ¹ / ₂	3 ³ / ₃₂	1 ¹ / ₄	0	21.0
5 3V 1060 TB	10.60	10.55	A-2	2517	2 ¹ / ₂	3 ¹ / ₁₆	1 ¹ / ₄	0	21.0	6 3V 1400 TB	A-3	2517	2 ¹ / ₂	7 ¹ / ₃₂	1 ¹ / ₄	0	30.0
5 3V 1400 TB	14.00	13.95	A-3	2517	2 ¹ / ₂	0	1 ¹ / ₄	3 ¹ / ₁₆	30.0	6 3V 1900 TB	B-3	3020	3	0	2	2 ³ / ₃₂	51.0
5 3V 1900 TB	19.00	18.95	A-3	3030	3	0	2	5 ¹ / ₁₆	51.0	6 3V 2500 TB	B-3	3030	3	0	3	3 ¹ / ₂	81.0
5 3V 2500 TB	25.00	24.95	B-3	3030	3	0	3	1 ¹ / ₁₆	76.0	6 3V 3350 TB	C-3	3030	3	3 ¹ / ₄	3	3 ¹ / ₄	110.0
5 3V 3350 TB	33.50	33.45	C-3	3030	3	1 ¹ / ₂	3	1 ¹ / ₃₂	97.0								

8 Groove										10 Groove							
F = 3 ¹⁷ / ₃₂										F = 4 ¹¹ / ₃₂							
Part Number	Diameter		Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush
	OD	Pitch 3V															
8 3V 475 TB	4.75	4.70	A-1	2517	2 ¹ / ₂	1 ²³ / ₃₂	1 ¹ / ₄	0	5.0	10 3V 475 TB	A-1	2517	2 ¹ / ₂	2 ¹⁹ / ₃₂	1 ¹ / ₄	0	6.0
8 3V 500 TB	5.00	4.95	A-1	2517	2 ¹ / ₂	1 ²⁹ / ₃₂	1 ¹ / ₄	0	6.0	10 3V 500 TB	A-1	2517	2 ¹ / ₂	2 ¹⁹ / ₃₂	1 ¹ / ₄	0	7.0
8 3V 530 TB	5.30	5.25	A-1	2517	2 ¹ / ₂	1 ¹ / ₃₂	1 ¹ / ₄	3 ¹ / ₄	7.8	10 3V 530 TB	A-1	2517	2 ¹ / ₂	1 ²⁷ / ₃₂	1 ¹ / ₄	3 ¹ / ₄	8.0
8 3V 560 TB	5.60	5.55	A-1	2517	2 ¹ / ₂	1 ¹ / ₄	1 ¹ / ₄	1 ¹⁷ / ₃₂	9.0	10 3V 560 TB	A-1	2517	2 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₄	2 ³ / ₃₂	9.0
8 3V 600 TB	6.00	5.95	A-1	2517	2 ¹ / ₂	1 ¹ / ₄	1 ¹ / ₄	1 ¹⁷ / ₃₂	11.0	10 3V 600 TB	A-1	2517	2 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₄	2 ³ / ₃₂	12.0
8 3V 650 TB	6.50	6.45	A-1	2517	2 ¹ / ₂	1 ¹ / ₄	1 ¹ / ₄	1 ¹⁷ / ₃₂	13.0	10 3V 650 TB	A-1	2517	2 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₄	2 ³ / ₃₂	14.0
8 3V 690 TB	6.90	6.85	A-1	2517	2 ¹ / ₂	1 ¹ / ₄	1 ¹ / ₄	1 ¹⁷ / ₃₂	15.0	10 3V 690 TB	A-1	2517	2 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₄	2 ³ / ₃₂	17.0
8 3V 800 TB	8.00	7.95	A-1	3020	3	1 ¹ / ₂	2	1 ¹ / ₃₂	19.0	10 3V 800 TB	A-1	3020	3	1 ¹ / ₄	2	2 ³ / ₃₂	22.0
8 3V 1060 TB	10.60	10.55	A-2	3020	3	1 ¹ / ₂	2	1 ¹ / ₃₂	26.0	10 3V 1060 TB	A-2	3020	3	2 ⁷ / ₃₂	2	1 ¹ / ₂	32.0
8 3V 1400 TB	14.00	13.95	A-3	3020	3	2 ¹ / ₃₂	2	7 ¹ / ₁₆	52.0	10 3V 1400 TB	A-2	3535	3 ¹ / ₂	0	3 ¹ / ₂	2 ⁷ / ₃₂	59.0
8 3V 1900 TB	19.00	18.95	A-3	3535	3 ¹ / ₂	0	3 ¹ / ₂	1 ¹ / ₃₂	63.0	10 3V 1900 TB	A-3	3535	3 ¹ / ₂	0	3 ¹ / ₂	2 ⁷ / ₃₂	71.0
8 3V 2500 TB	25.00	24.95	A-3	3535	3 ¹ / ₂	0	3 ¹ / ₂	1 ¹ / ₃₂	89.0	10 3V 2500 TB	A-3	4040	4	0	4	1 ¹ / ₃₂	121.0
8 3V 3350 TB	33.50	33.45	C-3	4040	4	1 ⁵ / ₆₄	4	1 ⁵ / ₆₄	131.0	10 3V 3350 TB	A-3	4040	4	1 ¹¹ / ₆₄	4	1 ¹ / ₃₂	172.0

5V Hi-Cap Wedge Stock Taper Bushed Sheaves

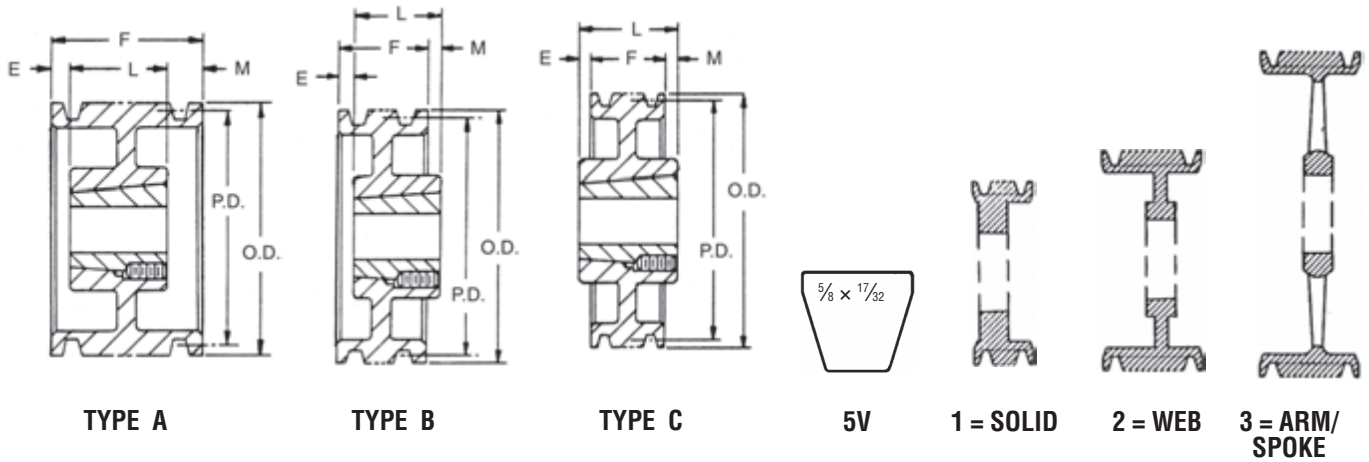


Taper Bushed Sheaves — 5V

2 Groove F = 1 1/16										3 Groove F = 2 3/8							
Part Number	Diameter		Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush
	OD	Pitch 5V															
*2 5V 440 TB	4.4	4.30	A-1	1610	1%	1/16	1	3/8	3.0	*3 5V 440 TB	A-1	1610	1%	1%	1	0	4.0
*2 5V 465 TB	4.65	4.55	A-1	1610	1%	1/16	1	3/8	3.0	*3 5V 465 TB	A-1	1610	1%	1/16	1	1/16	5.0
*2 5V 490 TB	4.9	4.80	A-1	1610	1%	1/16	1	3/8	4.0	*3 5V 490 TB	A-1	1610	1%	1/16	1	1/16	5.0
*2 5V 520 TB	5.2	5.10	A-1	1610	1%	1/16	1	3/8	4.2	*3 5V 520 TB	A-1	1610	1%	1/16	1	1/16	6.0
*2 5V 550 TB	5.5	5.40	A-1	1610	1%	1/16	1	3/8	5.2	*3 5V 550 TB	A-1	1610	1%	1/16	1	1/16	6.0
*2 5V 590 TB	5.9	5.8	A-1	1610	1%	1/16	1	3/8	5.6	*3 5V 590 TB	A-1	2517	2%	0	1 3/4	3/8	7.0
*2 5V 630 TB	6.3	6.20	A-1	1610	1%	0	1	1 1/16	7.6	*3 5V 630 TB	A-1	2517	2%	0	1 3/4	3/8	9.0
*2 5V 670 TB	6.7	6.60	A-1	1610	1%	0	1	1 1/16	9.4	*3 5V 670 TB	A-1	2517	2%	0	1 3/4	3/8	10.0
2 5V 710 TB	7.10	7.00	B-1	2517	2%	1/16	1%	0	10.0	3 5V 710 TB	A-1	2517	2%	3/8	1 3/4	0	11.0
2 5V 750 TB	7.50	7.40	B-1	2517	2%	1/16	1%	0	13.0	3 5V 750 TB	A-1	2517	2%	3/8	1 3/4	0	14.0
2 5V 800 TB	8.00	7.90	B-1	2517	2%	1/16	1%	0	14.0	3 5V 800 TB	A-1	2517	2%	3/8	1 3/4	0	16.0
2 5V 850 TB	8.50	8.40	B-2	2517	2%	1/16	1%	0	15.0	3 5V 850 TB	A-2	2517	2%	3/8	1 3/4	0	17.0
2 5V 900 TB	9.00	8.90	B-2	2517	2%	1/16	1%	0	16.0	3 5V 900 TB	A-2	2517	2%	3/8	1 3/4	0	19.0
2 5V 925 TB	9.25	9.15	B-2	3020	3	0	2	3/16	17.0	3 5V 925 TB	A-1	3020	3	0	2	3/8	23.0
2 5V 975 TB	9.75	9.65	B-2	3020	3	0	2	3/16	18.0	3 5V 975 TB	A-1	3020	3	0	2	3/8	24.0
2 5V 1030 TB	10.30	10.20	B-2	3020	3	0	2	3/16	20.0	3 5V 1030 TB	A-2	3020	3	0	2	3/8	27.0
2 5V 1090 TB	10.90	10.80	B-2	3020	3	0	2	3/16	22.0	3 5V 1090 TB	A-2	3020	3	0	2	3/8	28.0
2 5V 1130 TB	11.30	11.20	B-2	3020	3	0	2	3/16	25.0	3 5V 1180 TB	A-2	3020	3	0	2	3/8	30.0
2 5V 1180 TB	11.80	11.70	B-2	3020	3	0	2	3/16	26.0	3 5V 1250 TB	A-2	3020	3	0	2	3/8	32.0
2 5V 1250 TB	12.50	12.40	B-2	3020	3	0	2	3/16	28.0	3 5V 1320 TB	A-2	3020	3	0	2	3/8	34.0
2 5V 1320 TB	13.20	13.10	B-3	3020	3	0	2	3/16	29.0	3 5V 1400 TB	A-3	3020	3	0	2	3/8	36.0
2 5V 1400 TB	14.00	13.90	B-3	3020	3	0	2	3/16	33.0	3 5V 1500 TB	A-3	3020	3	0	2	3/8	41.0
2 5V 1500 TB	15.00	14.90	B-3	3020	3	0	2	3/16	35.0	3 5V 1600 TB	A-3	3020	3	0	2	3/8	50.0
2 5V 1600 TB	16.00	15.90	B-3	3020	3	0	2	3/16	45.0	3 5V 1870 TB	A-3	3020	3	0	2	3/8	52.0
2 5V 1870 TB	18.7	18.60	C-3	3020	3	0	2	3/16	50.1	3 5V 2120 TB	B-3	3535	3 1/2	0	3 1/2	1 1/8	65.0
2 5V 2120 TB	21.20	21.10	C-3	3535	3 1/2	3/8	3 1/2	1 1/16	60.0	3 5V 2360 TB	C-3	3535	3 1/2	0	3 1/2	1 1/8	68.0
2 5V 2360 TB	23.6	23.50	C-3	3535	3 1/2	1/4	3 1/2	1 1/16	68.0	3 5V 2800 TB	B-3	3535	3 1/2	0	3 1/2	1 1/8	99.0
2 5V 2800 TB	28.00	27.90	C-3	3535	3 1/2	3/8	3 1/2	1 1/16	96.0	3 5V 3150 TB	C-3	3535	3 1/2	1/2	3 1/2	2 1/2	96.0
										3 5V 3750 TB	C-3	4040	4	1/2	4	1 1/8	172.0
										3 5V 5000 TB	C-3	4040	4	1/2	4	1 1/8	201.0

Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-8 thru B-10 for additional bushing dimensions.

* 5VX Belts only on these sizes.



Taper Bushed Sheaves — 5V

4 Groove F = 3/16										5 Groove F = 3/4							
Part Number	Diameter		Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush
	OD	Pitch 5V															
* 4 5V 440 TB	4.4	4.30	A-1	1610	1%	2 1/16	1	0	6.0								
* 4 5V 465 TB	4.65	4.55	A-1	1610	1%	2 1/16	1	0	6.0								
* 4 5V 490 TB	4.9	4.80	A-1	1610	1%	2 1/16	1	0	6.0								
* 4 5V 520 TB	5.2	5.10	A-1	1610	1%	2 1/16	1	0	7.0								
* 4 5V 550 TB	5.5	5.40	A-1	2517	2%	1 5/16	1 1/4	0	8.0								
* 4 5V 590 TB	5.9	5.80	A-1	2517	2%	1 5/16	1 1/4	0	10.0	* 5 5V 590 TB	A-1	2517	2 1/2	3/16	1 1/4	1 1/16	11.0
* 4 5V 630 TB	6.3	6.20	A-1	2517	2%	0	1 1/4	1 1/16	11.0	* 5 5V 630 TB	A-1	2517	2 1/2	3/16	1 1/4	1 1/16	12.0
* 4 5V 670 TB	6.7	6.60	A-1	2517	2%	0	1 1/4	1 1/16	12.0	* 5 5V 670 TB	A-1	2517	2 1/2	3/16	1 1/4	1 1/16	13.0
4 5V 710 TB	7.10	7.00	A-1	2517	2%	1 1/16	1 1/4	0	14.0	5 5V 710 TB	A-1	3020	3	1/2	2	1 1/4	15.0
4 5V 750 TB	7.50	7.40	A-1	2517	2%	1 1/16	1 1/4	0	16.0	5 5V 750 TB	A-1	3020	3	1/2	2	1 1/4	17.0
4 5V 800 TB	8.00	7.90	A-1	2517	2%	1 1/16	1 1/4	0	17.0	5 5V 800 TB	A-1	3020	3	1/2	2	1 1/4	20.0
4 5V 850 TB	8.50	8.40	A-2	2517	2%	1 1/16	1 1/4	0	18.0	5 5V 850 TB	A-1	3020	3	1/2	2	1 1/4	22.0
4 5V 900 TB	9.00	8.90	A-2	2517	2%	1 1/16	1 1/4	0	19.0	5 5V 900 TB	A-1	3020	3	1/2	2	1 1/4	30.0
4 5V 925 TB	9.25	9.15	A-1	3020	3	1/2	2	3/16	22.0	5 5V 925 TB	A-1	3020	3	1/2	2	1 1/4	36.0
4 5V 975 TB	9.75	9.65	A-1	3020	3	1/2	2	3/16	27.0	5 5V 975 TB	A-1	3020	3	1/2	2	1 1/4	37.0
4 5V 1030 TB	10.30	10.20	A-2	3020	3	1/2	2	3/16	28.0	5 5V 1030 TB	A-2	3020	3	1/2	2	1 1/4	38.0
4 5V 1090 TB	10.90	10.80	A-2	3020	3	1/2	2	3/16	31.0	5 5V 1090 TB	A-2	3020	3	1/2	2	1 1/4	39.0
4 5V 1130 TB	11.3	11.20	A-1	3020	3	0	2	1 1/16	32.0	5 5V 1130 TB	A-1	3020	3	1/2	2	1 1/4	38.0
4 5V 1180 TB	11.80	11.70	A-2	3020	3	1/2	2	3/16	35.0	5 5V 1180 TB	A-2	3020	3	1/2	2	1 1/4	40.0
4 5V 1250 TB	12.50	12.40	A-2	3020	3	0	2	1 1/16	44.0	5 5V 1250 TB	A-2	3535	3 1/2	0	3 1/2	1/4	50.0
4 5V 1320 TB	13.20	13.10	A-3	3020	3	0	2	1 1/16	42.0	5 5V 1320 TB	A-2	3535	3 1/2	0	3 1/2	1/4	56.0
4 5V 1400 TB	14.00	13.90	B-3	3535	3 1/2	0	3 1/2	3/16	53.0	5 5V 1400 TB	A-3	3535	3 1/2	0	3 1/2	1/4	58.0
4 5V 1500 TB	15.00	14.90	B-3	3535	3 1/2	0	3 1/2	3/16	54.0	5 5V 1500 TB	A-3	3535	3 1/2	0	3 1/2	1/4	65.0
4 5V 1600 TB	16.00	15.90	B-3	3535	3 1/2	0	3 1/2	3/16	60.0	5 5V 1600 TB	A-3	3535	3 1/2	0	3 1/2	1/4	70.0
4 5V 1870 TB	18.7	18.60	C-3	3535	3 1/2	3/16	3 1/2	0	63.0	5 5V 1870 TB	A-3	3535	3 1/2	0	3 1/2	1/4	84.0
4 5V 2120 TB	21.20	21.10	B-3	3535	3 1/2	0	3 1/2	3/16	72.0	5 5V 2120 TB	B-3	4040	4	0	4	1/4	115.0
4 5V 2360 TB	23.6	23.50	C-3	3535	3 1/2	0	3 1/2	3/16	79.0	5 5V 2360 TB	C-3	4040	4	0	4	1/4	92.0
4 5V 2800 TB	28.00	27.90	B-3	3535	3 1/2	0	3 1/2	3/16	125.0	5 5V 2800 TB	B-3	4040	4	0	4	1/4	160.0
4 5V 3150 TB	31.5	31.40	C-3	3535	3 1/2	0	3 1/2	3/16	114.0	5 5V 3150 TB	A-3	4040	4	0	4	1/4	155.0
4 5V 3750 TB	37.50	37.40	B-3	4040	4	0	4	1 1/16	189.0	5 5V 3750 TB	B-3	4040	4	0	4	1/4	182.0
4 5V 5000 TB	50.00	49.90	B-3	4040	4	0	4	1 1/16	371.0	5 5V 5000 TB	B-3	4545	4 1/2	0	4 1/2	3/4	288.0

Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-8 thru B-10 for additional bushing dimensions.

* 5VX Belts only on these sizes.

5V Hi-Cap Wedge Stock Taper Bushed Sheaves

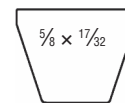


Taper Bushed Sheaves — 5V

6 Groove										8 Groove							
F = 4 ¹ / ₁₆										F = 5 ¹³ / ₁₆							
Part Number	Diameter		Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush
	OD	Pitch 5V															
* 6 5V 590 TB	5.90	5.80	A-1	2517	2 ¹ / ₂	1 ¹ / ₂	1 ³ / ₄	1 ¹ / ₁₆	13.0								
* 6 5V 630 TB	6.30	6.20	A-1	2517	2 ¹ / ₂	1 ⁹ / ₁₆	1 ³ / ₄	1 ¹ / ₁₆	13.0								
* 6 5V 670 TB	6.70	6.60	A-1	2517	2 ¹ / ₂	1 ⁹ / ₁₆	1 ³ / ₄	1 ¹ / ₁₆	15.0								
6 5V 710 TB	7.10	7.00	A-1	3020	3	3 ¹ / ₄	2	1 ¹ / ₁₆	17.0	8 5V 710 TB	A-1	3030	3	1	3	1 ¹³ / ₁₆	24.0
6 5V 750 TB	7.50	7.40	A-1	3020	3	3 ¹ / ₄	2	1 ¹ / ₁₆	20.0	8 5V 750 TB	A-1	3030	3	1	3	1 ¹³ / ₁₆	27.0
6 5V 800 TB	8.00	7.90	A-1	3020	3	3 ¹ / ₄	2	1 ¹ / ₁₆	24.0	8 5V 800 TB	A-1	3030	3	1	3	1 ¹³ / ₁₆	33.0
6 5V 850 TB	8.50	8.40	A-1	3020	3	3 ¹ / ₄	2	1 ¹ / ₁₆	28.0	8 5V 850 TB	A-1	3030	3	1	3	1 ¹³ / ₁₆	39.0
6 5V 900 TB	9.00	8.90	A-1	3020	3	3 ¹ / ₄	2	1 ¹ / ₁₆	32.0	8 5V 900 TB	A-1	3535	3 ¹ / ₂	1	3 ¹ / ₂	1 ¹³ / ₁₆	44.0
6 5V 925 TB	9.25	9.15	A-1	3535	3 ¹ / ₂	0	3 ¹ / ₂	1 ¹⁵ / ₁₆	39.0	8 5V 925 TB	A-1	3535	3 ¹ / ₂	1	3 ¹ / ₂	1 ¹³ / ₁₆	48.0
6 5V 975 TB	9.75	9.65	A-1	3535	3 ¹ / ₂	0	3 ¹ / ₂	1 ¹⁵ / ₁₆	50.0	8 5V 975 TB	A-1	3535	3 ¹ / ₂	1	3 ¹ / ₂	1 ¹³ / ₁₆	55.0
6 5V 1030 TB	10.30	10.20	A-1	3535	3 ¹ / ₂	0	3 ¹ / ₂	1 ¹⁵ / ₁₆	58.0	8 5V 1030 TB	A-1	3535	3 ¹ / ₂	1	3 ¹ / ₂	1 ¹³ / ₁₆	64.0
6 5V 1090 TB	10.90	10.80	A-1	3535	3 ¹ / ₂	0	3 ¹ / ₂	1 ¹⁵ / ₁₆	60.0	8 5V 1090 TB	A-1	3535	3 ¹ / ₂	1	3 ¹ / ₂	1 ¹³ / ₁₆	68.0
	11.30	11.20								8 5V 1130 TB	A-1	3535	3 ¹ / ₂	1	3 ¹ / ₂	1 ¹³ / ₁₆	57.0
6 5V 1180 TB	11.80	11.70	A-2	3535	3 ¹ / ₂	0	3 ¹ / ₂	1 ¹⁵ / ₁₆	62.0	8 5V 1180 TB	A-1	3535	3 ¹ / ₂	1	3 ¹ / ₂	1 ¹³ / ₁₆	74.0
6 5V 1250 TB	12.50	12.40	A-2	3535	3 ¹ / ₂	0	3 ¹ / ₂	1 ¹⁵ / ₁₆	65.0	8 5V 1250 TB	A-1	4040	4	1/4	4	1 ¹³ / ₁₆	82.0
6 5V 1320 TB	13.20	13.10	A-2	3535	3 ¹ / ₂	0	3 ¹ / ₂	1 ¹⁵ / ₁₆	68.0	8 5V 1320 TB	A-1	4040	4	1/4	4	1 ¹³ / ₁₆	87.0
6 5V 1400 TB	14.00	13.90	A-2	3535	3 ¹ / ₂	0	3 ¹ / ₂	1 ¹⁵ / ₁₆	72.0	8 5V 1400 TB	A-2	4040	4	1/4	4	1 ¹³ / ₁₆	90.0
6 5V 1500 TB	15.00	14.90	A-2	4040	4	0	4	1/16	91.0	8 5V 1500 TB	A-2	4040	4	1/4	4	1 ¹³ / ₁₆	97.0
6 5V 1600 TB	16.00	15.90	A-3	4040	4	0	4	1/16	97.0	8 5V 1600 TB	A-3	4040	4	1/4	4	1 ¹³ / ₁₆	106.0
6 5V 1870 TB	18.70	18.60	A-2	4040	4	0	4	1/16	97.0	8 5V 1870 TB	A-3	4040	4	1/4	4	1 ¹³ / ₁₆	112.0
6 5V 2120 TB	21.20	21.10	A-3	4040	4	0	4	1/16	123.0	8 5V 2120 TB	A-3	4040	4	1/4	4	1 ¹³ / ₁₆	144.0
6 5V 2360 TB	23.60	23.50	A-3	4040	4	0	4	1/16	124.0	8 5V 2360 TB	A-3	4040	4	1/4	4	1 ¹³ / ₁₆	145.0
6 5V 2800 TB	28.00	27.90	A-3	4040	4	0	4	1/16	176.0	8 5V 2800 TB	A-3	4545	4 ¹ / ₂	1/4	4 ¹ / ₂	1 ¹³ / ₁₆	206.0
6 5V 3150 TB	31.50	31.40	A-3	4040	4	0	4	1/16	171.0	8 5V 3150 TB	A-3	4545	4 ¹ / ₂	1/4	4 ¹ / ₂	1 ¹³ / ₁₆	228.0
6 5V 3750 TB	37.50	37.40	B-3	4545	4 ¹ / ₂	0	4 ¹ / ₂	1/16	254.0	8 5V 3750 TB	A-3	4545	4 ¹ / ₂	1/4	4 ¹ / ₂	1 ¹³ / ₁₆	271.0
6 5V 5000 TB	50.00	49.90	B-3	4545	4 ¹ / ₂	0	4 ¹ / ₂	1/16	386.0	8 5V 5000 TB	A-3	4545	4 ¹ / ₂	1/4	4 ¹ / ₂	1 ¹³ / ₁₆	458.0

Taper Bushed Sheaves — 5V

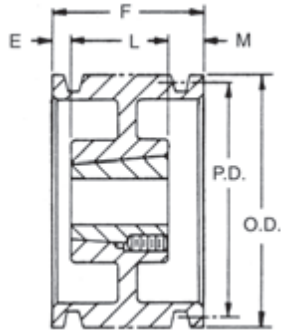
10 Groove									
F = 7 ³ / ₁₆									
Part Number	Diameter		Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush
	OD	Pitch 5V							
10 5V 800 TB	8.00	7.90	A-1	3030	3	1	3	3 ¹ / ₁₆	36.0
10 5V 850 TB	8.50	8.40	A-1	3030	3	1	3	3 ¹ / ₁₆	42.0
10 5V 900 TB	9.00	8.90	A-1	3535	3 ¹ / ₂	1	3 ¹ / ₂	2 ¹ / ₁₆	47.0
10 5V 925 TB	9.25	9.15	A-1	4040	4	1	4	2 ¹ / ₁₆	50.0
10 5V 975 TB	9.75	9.65	A-1	4040	4	1	4	2 ³ / ₁₆	58.0
10 5V 1030 TB	10.30	10.20	A-1	4040	4	1	4	2 ³ / ₁₆	69.0
10 5V 1090 TB	10.90	10.80	A-1	4040	4	1	4	2 ³ / ₁₆	79.0
10 5V 1130 TB	11.30	11.20	A-1	4040	4	1	4	2 ³ / ₁₆	80.0
10 5V 1180 TB	11.80	11.70	A-1	4040	4	1	4	2 ³ / ₁₆	96.0
10 5V 1250 TB	12.50	12.40	A-2	4040	4	3/4	4	2 ¹ / ₁₆	116.0
10 5V 1320 TB	13.20	13.10	A-2	4040	4	3/4	4	2 ¹ / ₁₆	130.0
10 5V 1400 TB	14.00	13.90	A-2	4545	4 ¹ / ₂	3/4	4 ¹ / ₂	1 ¹⁵ / ₁₆	150.0
10 5V 1500 TB	15.00	14.90	A-2	4545	4 ¹ / ₂	3/4	4 ¹ / ₂	1 ¹⁵ / ₁₆	155.0
10 5V 1600 TB	16.00	15.90	A-2	4545	4 ¹ / ₂	3/4	4 ¹ / ₂	1 ¹⁵ / ₁₆	160.0
10 5V 1870 TB	18.70	18.60	A-2	4545	4 ¹ / ₂	1/2	4 ¹ / ₂	2 ³ / ₁₆	116.0
10 5V 2120 TB	21.20	21.10	A-3	4545	4 ¹ / ₂	3/4	4 ¹ / ₂	1 ¹⁵ / ₁₆	210.0
10 5V 2360 TB	23.60	23.50	A-2	4545	4 ¹ / ₂	1/2	4 ¹ / ₂	2 ³ / ₁₆	191.0
10 5V 2800 TB	28.00	27.90	A-3	4545	4 ¹ / ₂	3/4	4 ¹ / ₂	1 ¹⁵ / ₁₆	248.0
10 5V 3150 TB	31.50	31.40	A-3	4545	4 ¹ / ₂	3/4	4 ¹ / ₂	1 ¹⁵ / ₁₆	259.0
10 5V 3750 TB	37.50	37.40	A-3	4545	4 ¹ / ₂	3/4	4 ¹ / ₂	1 ¹⁵ / ₁₆	375.0
10 5V 5000 TB	50.00	49.90	A-3	5050	5	3/4	5	1 ¹ / ₁₆	502.0



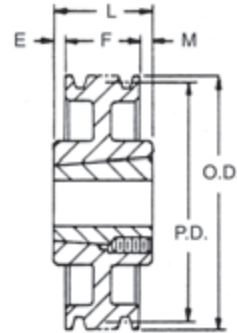
5V

Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-8 thru B-10 for additional bushing dimensions.

* 5VX Belts only on these sizes.



TYPE A



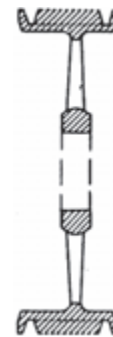
TYPE C



1 = SOLID



2 = WEB



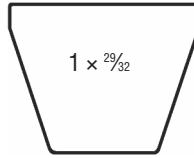
3 = ARM/SPOKE

Taper Bushed Sheaves — 8V

4 Groove										5 Groove							
F = 4 7/8										F = 6							
Part Number	Diameters		Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush
	OD	Pitch 8V															
4 8V 1250 TB	12.5	12.3	A-1	4040	4	0	4	7/8	88.0	5 8V 1250 TB	A-1	4040	4	3/16	4	1 13/16	100.0
4 8V 1320 TB	13.2	13.0	A-1	4040	4	0	4	7/8	102.0	5 8V 1320 TB	A-1	4040	4	3/16	4	1 13/16	115.0
4 8V 1400 TB	14.0	13.8	A-1	4040	4	0	4	7/8	123.0	5 8V 1400 TB	A-1	4040	4	3/16	4	1 13/16	133.0
4 8V 1500 TB	15.0	14.8	A-1	4040	4	0	4	7/8	145.0	5 8V 1500 TB	A-1	4040	4	3/16	4	1 13/16	156.0
4 8V 1600 TB	16.0	15.8	A-2	4040	4	0	4	7/8	111.0	5 8V 1600 TB	A-1	4040	4	1/2	4	1 1/2	181.0
4 8V 1700 TB	17.0	16.8	A-2	4040	4	0	4	7/8	120.0	5 8V 1700 TB	A-2	4545	4 1/2	0	4 1/2	1 1/2	146.0
4 8V 1800 TB	18.0	17.8	A-2	4040	4	0	4	7/8	130.0	5 8V 1800 TB	A-2	4545	4 1/2	0	4 1/2	1 1/2	156.0
4 8V 1900 TB	19.0	18.8	A-2	4040	4	0	4	7/8	140.0	5 8V 1900 TB	A-2	4545	4 1/2	0	4 1/2	1 1/2	176.0
4 8V 2000 TB	20.0	19.8	A-2	4545	4 1/2	0	4 1/2	7/8	151.0	5 8V 2000 TB	A-2	4545	4 1/2	0	4 1/2	1 1/2	186.0
4 8V 2120 TB	21.2	21.0	A-3	4545	4 1/2	0	4 1/2	7/8	154.0	5 8V 2120 TB	A-3	4545	4 1/2	0	4 1/2	1 1/2	195.0
4 8V 2240 TB	22.4	22.2	A-3	4545	4 1/2	0	4 1/2	7/8	185.0	5 8V 2240 TB	A-3	4545	4 1/2	0	4 1/2	1 1/2	200.0
4 8V 2480 TB	24.8	24.6	D-3	5050	5	1 1/16	5	1 1/16	191.0	5 8V 2480 TB	A-3	5050	5	0	5	1 1/2	206.0
4 8V 3000 TB	30.0	29.8	C-3	5050	5	0	5	1/2	246.0	5 8V 3000 TB	A-3	5050	5	0	5	1	278.0
4 8V 3550 TB	35.5	35.3	D-3	5050	5	1 1/8	5	1	278.0	5 8V 3550 TB	A-3	5050	5	0	5	1	399.0
4 8V 4000 TB	40.0	39.8	B-3	5050	5	0	5	7/8	292.0	5 8V 4000 TB	A-3	5050	5	0	5	1	350.0
4 8V 4450 TB	44.5	44.3	D-3	5050	5	1/4	5	7/8	367.0	5 8V 4450 TB	A-3	5050	5	0	5	1	572.0
4 8V 5300 TB	53.0	52.8	B-3	5050	5	0	5	7/8	573.0	5 8V 5300 TB	A-3	5050	5	0	5	1	565.0

Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-8 thru B-10 for additional bushing dimensions.

8V Hi-Cap Wedge Stock Taper Bushed Sheaves



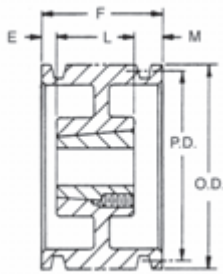
8V

Taper Bushed Sheaves — 8V

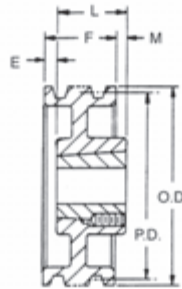
6 Groove F = 6%										8 Groove F = 9%							
Part Number	Diameters		Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush
	OD	Pitch 8V															
6 8V 1250 TB	12.5	12.3	A-1	4040	4	1	4	2%	100.0	8 8V 1250 TB	A-1	4545	4%	1½	4½	3%	125.0
6 8V 1320 TB	13.2	13.0	A-1	4040	4	1	4	2%	124.0	8 8V 1320 TB	A-1	4545	4%	1½	4½	3%	135.0
6 8V 1400 TB	14.0	13.8	A-1	4040	4	1	4	2%	142.0	8 8V 1400 TB	A-1	4545	4%	1½	4½	3%	156.0
6 8V 1500 TB	15.0	14.8	A-1	4545	4%	½	4½	2%	153.0	8 8V 1500 TB	A-1	4545	4%	1½	4½	3%	160.0
6 8V 1600 TB	16.0	15.8	A-2	4545	4%	½	4½	2%	170.0	8 8V 1600 TB	A-2	4545	4%	1½	4½	3%	166.0
6 8V 1700 TB	17.0	16.8	A-2	4545	4%	½	4½	2%	175.0	8 8V 1700 TB	A-2	5050	5	1	5	3%	265.0
6 8V 1800 TB	18.0	17.8	A-2	4545	4%	½	4½	2%	180.0	8 8V 1800 TB	A-2	5050	5	1	5	3%	204.0
6 8V 1900 TB	19.0	18.8	A-2	4545	4%	½	4½	2%	182.0	8 8V 1900 TB	A-2	5050	5	1	5	3%	228.0
6 8V 2000 TB	20.0	19.8	A-2	5050	5	½	5	1%	226.0	8 8V 2000 TB	A-2	5050	5	1	5	3%	234.0
6 8V 2120 TB	21.2	21.0	A-3	5050	5	½	5	1%	246.0	8 8V 2120 TB	A-3	5050	5	1	5	3%	246.0
6 8V 2240 TB	22.4	22.2	A-3	5050	5	½	5	1%	267.0	8 8V 2240 TB	A-3	5050	5	1	5	3%	300.0
6 8V 2480 TB	24.8	24.6	D-3	5050	5	½	5	2%	236.0	8 8V 2480 TB	A-3	5050	5	2%	5	2%	285.0
6 8V 3000 TB	30.0	29.8	A-3	5050	5	½	5	1%	398.0	8 8V 3000 TB	A-3	5050	5	1	5	3%	384.0
6 8V 3550 TB	35.5	35.3	A-3	5050	5	½	5	1%	363.0	8 8V 3550 TB	A-3	5050	5	1	5	3%	441.0
6 8V 4000 TB	40.0	39.8	A-3	5050	5	½	5	1%	468.0	8 8V 4000 TB	A-3	5050	5	1	5	3%	556.0
6 8V 4450 TB	44.5	44.3	A-3	5050	5	½	5	1%	485.0	8 8V 4450 TB	A-3	6050	5	1	5	3%	596.0
6 8V 5300 TB	53.0	52.8	A-3	5050	5	½	5	1%	658.0	8 8V 5300 TB	A-3	6050	6	1	5	3%	1040.0

10 Groove F = 11%										12 Groove F = 13%							
Part Number	Diameters		Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush
	OD	Pitch 8V															
10 8V 1320 TB	12.5	12.3	A-1	4545	4%	1	4½	6%	150.0	12 8V 1250 TB	A-1	5050	5	3%	5	5%	153.0
10 8V 1400 TB	14.0	13.8	A-1	4545	4%	1	4½	6%	180.0	12 8V 1320 TB	A-1	5050	5	3%	5	5%	180.0
10 8V 1500 TB	15.0	14.8	A-1	5050	5	1	5	5%	211.0	12 8V 1400 TB	A-1	5050	5	3%	5	5%	186.0
10 8V 1600 TB	16.0	15.8	A-1	5050	5	1	5	5%	220.0	12 8V 1500 TB	A-2	5050	5	1%	5	7	221.0
10 8V 1700 TB	17.0	16.8	A-2	5050	5	2%	5	4%	228.0	12 8V 1600 TB	A-2	5050	5	1%	5	7	247.0
10 8V 1800 TB	18.0	17.8	A-2	5050	5	2%	5	4%	244.0	12 8V 1700 TB	A-2	5050	5	3%	5	5%	267.0
10 8V 1900 TB	19.0	18.8	A-2	5050	5	2%	5	4%	260.0	12 8V 1800 TB	A-2	5050	5	3%	5	5%	274.0
10 8V 2000 TB	20.0	19.8	A-2	5050	5	2%	5	4%	270.0	12 8V 1900 TB	A-2	5050	5	2%	5	6%	306.0
10 8V 2120 TB	21.2	21.0	A-2	5050	5	2%	5	4%	282.0	12 8V 2000 TB	A-3	5050	5	2%	5	6%	249.0
10 8V 2240 TB	22.4	22.2	A-3	5050	5	2%	5	4%	312.0	12 8V 2120 TB	A-3	5050	5	2%	5	6%	294.0
10 8V 2480 TB	24.8	24.6	A-3	5050	5	2%	5	4%	328.0	12 8V 2240 TB	A-3	5050	5	2%	5	6%	337.0
10 8V 3000 TB	30.0	29.8	A-3	5050	5	2%	5	4%	448.0	12 8V 2480 TB	A-3	5050	5	5%	5	3%	380.0
10 8V 3550 TB	35.5	35.3	A-3	6050	6	2%	5	4%	517.0	12 8V 3000 TB	A-3	6050	6	4	5	4%	482.0
10 8V 4000 TB	40.0	39.8	A-3	6050	6	2%	5	4%	550.0	12 8V 3550 TB	A-3	6050	6	4	5	4%	597.0
10 8V 4450 TB	44.5	44.3	A-3	6050	6	2%	5	4%	701.0	12 8V 4000 TB	A-3	6050	6	4	5	4%	702.0
10 8V 5300 TB	53.0	52.8	A-3	6050	6	2%	5	4%	870.0	12 8V 4450 TB	A-3	6050	6	4	5	4%	814.0
										12 8V 5300 TB	A-3	7060	6	5	5	2%	1077.0

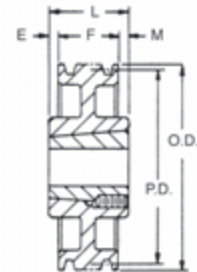
Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-8 thru B-10 for additional bushing dimensions.



TYPE A



TYPE B



TYPE C

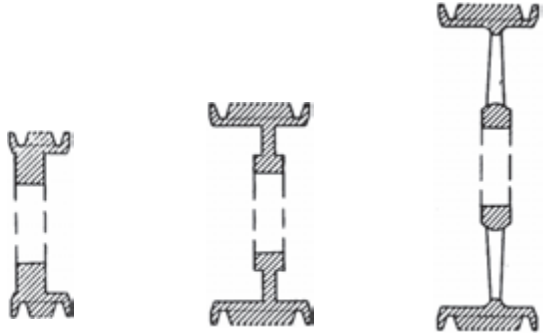
Taper Bushed Sheaves — A-B

1 Groove F = 1*											2 Groove F = 1¼							
Part Number	Pitch Diameters		OD	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush
	A Belt	B Belt																
1 B 34 TB	3.0	3.4	3.75	A-1	1210	1¼	0	1	0	2.2	2 B 34 TB	A-1	1210	1¼	¾	1	0	2.2
1 B 36 TB	3.2	3.6	3.95	A-1	1210	1¼	0	1	0	2.6	2 B 36 TB	A-1	1210	1¼	¾	1	0	2.6
1 B 38 TB	3.4	3.8	4.15	A-1	1610	1¼	0	1	0	2.8	2 B 38 TB	A-1	1610	1¼	¾	1	0	2.8
1 B 40 TB	3.6	4.0	4.35	A-1	1610	1¼	0	1	0	3.0	2 B 40 TB	A-1	1610	1¼	¾	1	0	3.0
1 B 42 TB	3.8	4.2	4.55	A-1	1610	1¼	0	1	0	3.5	2 B 42 TB	A-1	1610	1¼	¾	1	0	4.0
1 B 44 TB	4.0	4.4	4.75	A-1	1610	1¼	0	1	0	3.8	2 B 44 TB	A-1	1610	1¼	¾	1	0	4.5
1 B 46 TB	4.2	4.6	4.95	A-1	1610	1¼	0	1	0	4.0	2 B 46 TB	A-1	1610	1¼	¾	1	0	5.0
1 B 48 TB	4.4	4.8	5.15	A-1	1610	1¼	0	1	0	4.5	2 B 48 TB	A-1	1610	1¼	¾	1	0	5.5
1 B 50 TB	4.6	5.0	5.35	A-1	1610	1¼	0	1	0	4.8	2 B 50 TB	A-1	1610	1¼	¾	1	0	6.0
1 B 52 TB	4.8	5.2	5.55	A-1	1610	1¼	0	1	0	5.0	2 B 52 TB	A-1	1610	1¼	¾	1	0	6.5
1 B 54 TB	5.0	5.4	5.75	A-1	1610	1¼	0	1	0	5.5	2 B 54 TB	A-1	1610	1¼	¾	1	0	7.0
1 B 56 TB	5.2	5.6	5.95	A-1	1610	1¼	0	1	0	6.0	2 B 56 TB	A-1	1610	1¼	¾	1	0	8.2
1 B 58 TB	5.4	5.8	6.15	A-1	1610	1¼	0	1	0	6.3	2 B 58 TB	A-1	1610	1¼	¾	1	0	8.6
1 B 60 TB	5.6	6.0	6.35	A-1	1610	1¼	0	1	0	6.7	2 B 60 TB	A-1	1610	1¼	¾	1	0	8.8
1 B 62 TB	5.8	6.2	6.55	A-1	1610	1¼	0	1	0	7.0	2 B 62 TB	A-1	1610	1¼	¾	1	0	9.0
1 B 64 TB	6.0	6.4	6.75	A-1	1610	1¼	0	1	0	8.0	2 B 64 TB	A-1	1610	1¼	¾	1	0	10.0
1 B 66 TB	6.2	6.6	6.95	A-1	1610	1¼	0	1	0	8.5	2 B 66 TB	A-1	1610	1¼	¾	1	0	10.5
1 B 68 TB	6.4	6.8	7.15	A-1	1610	1¼	0	1	0	9.0	2 B 68 TB	A-1	1610	1¼	¾	1	0	11.0
1 B 70 TB	6.6	7.0	7.35	B-1	2517	2½	0	1¼	¾	8.5								
1 B 74 TB	7.0	7.4	7.75	B-1	2517	2½	0	1¼	¾	9.4	2 B 74 TB	A-1	2517	2½	0	1¼	0	16.0
1 B 86 TB	8.2	8.6	8.95	B-2	2517	2½	0	1¼	¾	12.0	2 B 86 TB	A-2	2517	2½	0	1¼	0	18.0
1 B 94 TB	9.0	9.4	9.75	B-2	2517	2½	0	1¼	¾	14.0	2 B 94 TB	A-2	2517	2½	0	1¼	0	20.0
1 B 110 TB	10.6	11.0	11.35	B-2	2517	2½	0	1¼	¾	15.6	2 B 110 TB	A-2	2517	2½	0	1¼	0	25.0
1 B 124 TB	12.0	12.4	12.75	C-3	2517	2½	¼	1¼	½	16.2	2 B 124 TB	A-3	2517	2½	0	1¼	0	27.0
1 B 136 TB	13.2	13.6	13.95	C-3	2517	2½	¼	1¼	½	17.2	2 B 136 TB	C-3	2517	2½	0	1¼	0	24.0
1 B 154 TB	15.0	15.4	15.75	C-3	2517	2½	¼	1¼	½	18.0	2 B 154 TB	A-3	2517	2½	0	1¼	0	31.0
1 B 160 TB	16.0	16.4	16.35	C-3	2517	2½	¾	1¼	¾	24.1	2 B 160 TB	C-3	2517	2½	0	1¼	0	26.0
1 B 184 TB	18.0	18.4	18.75	C-3	2517	2½	¾	1¼	¾	31.2	2 B 184 TB	A-3	2517	2½	0	1¼	0	33.0
											2 B 200 TB	C-3	3020	3	0	2	¼	49.0
											2 B 250 TB	C-3	3020	3	0	2	¼	65.0
											2 B 300 TB	C-3	3020	3	0	2	¼	75.0
											2 B 380 TB	C-3	3020	3	0	2	¼	112.0

Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-8 thru B-10 for additional bushing dimensions.

* F = 1" 1 B 154 TB
F = 1¼" for 1 B 184 TB

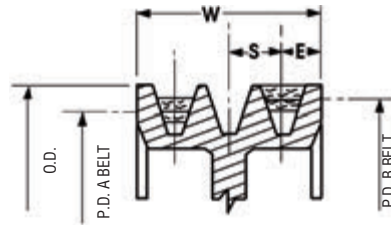
A-B Combination Groove Conventional Taper Bushed Stock Sheaves



1 = SOLID

2 = WEB

3 = ARM/SPOKE



$$W = S(N-1) + 2E$$

$$N = \text{No. of Grooves}$$

Drawing shows position of "A" and "B" belts in groove.

Combination Groove Dimensions

Belt Section	E	S	OD
"AB"	1/2	3/4	P.D. "B" +.35

Taper Bushed Sheaves — A-B

3 Groove F = 2 1/2											4 Groove F = 3 1/4							
Part Number	Diameters		OD	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush
	A Belts	B Belts																
3 B 34 TB	3.0	3.4	3.75	A-1	1210	1 1/4	1 1/2	1	0	3.0	4 B 34 TB	A-1	1210	1 1/4	2 1/4	1	0	3.0
3 B 36 TB	3.2	3.6	3.95	A-1	1210	1 1/4	1 1/2	1	0	3.5	4 B 36 TB	A-1	1210	1 1/4	2 1/4	1	0	3.5
3 B 38 TB	3.4	3.8	4.15	A-1	1610	1 1/4	1 1/2	1	0	4.0	4 B 38 TB	A-1	1610	1 1/4	2 1/4	1	0	4.0
3 B 40 TB	3.6	4.0	4.35	A-1	1610	1 1/4	1 1/2	1	0	5.0	4 B 40 TB	A-1	1610	1 1/4	2 1/4	1	0	5.0
3 B 42 TB	3.8	4.2	4.55	A-1	1610	1 1/4	1 1/2	1	0	6.0	4 B 42 TB	A-1	1610	1 1/4	2 1/4	1	0	5.5
3 B 44 TB	4.0	4.4	4.75	A-1	1610	1 1/4	1 1/2	1	0	6.5	4 B 44 TB	A-1	1610	1 1/4	2 1/4	1	0	6.0
3 B 46 TB	4.2	4.6	4.95	A-1	1610	1 1/4	1 1/2	1	0	7.0	4 B 46 TB	A-1	1610	1 1/4	2 1/4	1	0	7.0
3 B 48 TB	4.4	4.8	5.15	A-1	1610	1 1/4	1 1/2	1	0	8.0	4 B 48 TB	A-1	1610	1 1/4	2 1/4	1	0	8.0
3 B 50 TB	4.6	5.0	5.35	A-1	1610	1 1/4	1 1/2	1	0	8.5	4 B 50 TB	A-1	2517	2 1/2	1 1/2	1 1/4	0	8.5
3 B 52 TB	4.8	5.2	5.55	A-1	1610	1 1/4	1 1/2	1	0	9.0	4 B 52 TB	A-1	2517	2 1/2	1 1/2	1 1/4	0	9.0
3 B 54 TB	5.0	5.4	5.75	A-1	2517	2 1/2	1 1/2	1 1/4	0	9.5	4 B 54 TB	A-1	2517	2 1/2	1 1/2	1 1/4	0	9.5
3 B 56 TB	5.2	5.6	5.95	A-1	2517	2 1/2	1 1/2	1 1/4	0	10.0	4 B 56 TB	A-1	2517	2 1/2	1 1/2	1 1/4	0	10.0
3 B 58 TB	5.4	5.8	6.15	A-1	2517	2 1/2	1 1/2	1 1/4	0	10.5	4 B 58 TB	A-1	2517	2 1/2	1 1/2	1 1/4	0	12.0
3 B 60 TB	5.6	6.0	6.35	A-1	2517	2 1/2	1 1/2	1 1/4	0	11.0	4 B 60 TB	A-1	2517	2 1/2	1 1/2	1 1/4	0	12.5
3 B 62 TB	5.8	6.2	6.55	A-1	2517	2 1/2	1 1/2	1 1/4	0	11.5	4 B 62 TB	A-1	2517	2 1/2	1 1/2	1 1/4	0	13.0
3 B 64 TB	6.0	6.4	6.75	A-1	2517	2 1/2	1 1/2	1 1/4	0	12.0	4 B 64 TB	A-1	2517	2 1/2	1 1/2	1 1/4	0	14.0
3 B 66 TB	6.2	6.6	6.95	A-1	2517	2 1/2	1 1/2	1 1/4	0	12.3	4 B 66 TB	A-1	2517	2 1/2	1 1/2	1 1/4	0	15.0
3 B 68 TB	6.4	6.8	7.15	A-1	2517	2 1/2	1 1/2	1 1/4	0	12.8	4 B 68 TB	A-1	2517	2 1/2	1 1/2	1 1/4	0	16.0
											4 B 70 TB	A-1	2517	2 1/2	0	1 1/4	1 1/2	20.0
3 B 74 TB	7.0	7.4	7.75	A-1	2517	2 1/2	1 1/2	1 1/4	0	16.0	4 B 74 TB	A-1	2517	2 1/2	1 1/2	1 1/4	0	16.0
3 B 80 TB	8.0	8.4	8.35	A-1	2517	2 1/2	0	1 1/4	1 1/2	19.0	4 B 80 TB	A-1	2517	2 1/2	0	1 1/4	1 1/2	21.0
3 B 86 TB	8.2	8.6	8.95	A-2	2517	2 1/2	1 1/2	1 1/4	0	19.0	4 B 86 TB	A-2	2517	2 1/2	1 1/2	1 1/4	0	21.0
3 B 94 TB	9.0	9.4	9.75	A-2	2517	2 1/2	1 1/2	1 1/4	0	21.0	4 B 94 TB	A-2	2517	2 1/2	1 1/2	1 1/4	0	23.0
3 B 110 TB	10.6	11.0	11.35	A-2	2517	2 1/2	1 1/2	1 1/4	0	24.0	4 B 110 TB	A-2	2517	2 1/2	1 1/2	1 1/4	0	28.0
3 B 124 TB	12.0	12.4	12.75	A-3	2517	2 1/2	0	1 1/4	1 1/2	28.0	4 B 124 TB	A-3	2517	2 1/2	1 1/2	1 1/4	1 1/2	32.8
3 B 136 TB	13.2	13.6	13.95	A-3	2517	2 1/2	0	1 1/4	1 1/2	25.0	4 B 136 TB	A-3	2517	2 1/2	1 1/2	1 1/4	1 1/2	34.0
3 B 154 TB	15.0	15.4	15.75	A-3	2517	2 1/2	0	1 1/4	1 1/2	30.0	4 B 154 TB	A-3	2517	2 1/2	1 1/2	1 1/4	1 1/2	42.0
3 B 160 TB	15.6	16.0	16.35	A-3	2517	2 1/2	0	1 1/4	1 1/2	32.0	4 B 160 TB	A-3	2517	2 1/2	1 1/2	1 1/4	1 1/2	45.1
3 B 184 TB	18.0	18.4	18.75	A-3	2517	2 1/2	0	1 1/4	1 1/2	44.0	4 B 184 TB	A-3	2517	2 1/2	1 1/2	1 1/4	1	53.0
3 B 200 TB	19.6	20.0	20.35	A-3	3020	3	0	2	1 1/2	58.0	4 B 200 TB	A-3	3020	3	1 1/2	2	1 1/2	63.0
3 B 250 TB	24.6	25.0	25.35	A-3	3020	3	0	2	1 1/2	74.0	4 B 250 TB	A-3	3030	3	0	3	1 1/4	80.0
3 B 300 TB	29.6	30.0	30.35	A-3	3020	3	0	2	1 1/2	84.0	4 B 300 TB	A-3	3030	3	0	3	1 1/4	100.0
3 B 380 TB	37.6	38.0	38.35	B-3	3020	3	0	3	1 1/2	135.0	4 B 380 TB	A-3	3030	3	0	3	1 1/4	142.0

Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-8 thru B-10 for additional bushing dimensions.



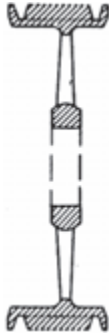
Combination Groove Conventional Taper Bushed Stock Sheaves **A-B**



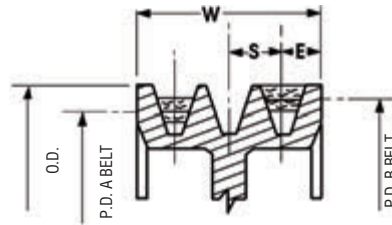
1 = SOLID



2 = WEB



3 = ARM/SPOKE



$$W = S(N-1) + 2E$$

N = No. of Grooves

Drawing shows position of "A" and "B" belts in groove.

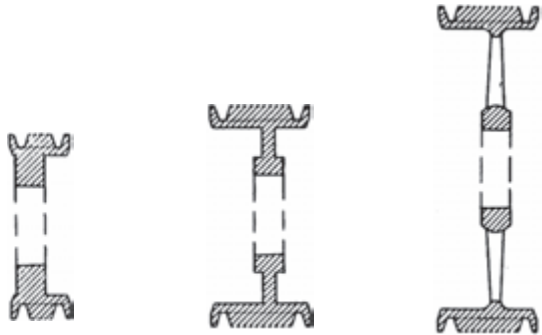
Combination Groove Dimensions

Belt Section	E	S	OD
"AB"	1/2	3/4	P.D. "B" +.35

Taper Bushed Sheaves — A-B

5 Groove F = 4											6 Groove F = 4 3/4								
Part Number	Diameters		OD	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush	
	A Belts	B Belts																	
5 B 34 TB	3.0	3.4	3.75	A-1	1210	1 1/4	2 1/2	1 1/2	0	5.0									
5 B 36 TB	3.2	3.6	3.95	A-1	1210	1 1/4	2 1/2	1 1/2	0	5.5									
5 B 38 TB	3.4	3.8	4.15	A-1	1215	1 1/4	7/8	1 1/2	1 1/4	6.0									
5 B 40 TB	3.6	4.0	4.35	A-1	1215	1 1/4	7/8	1 1/2	1 1/4	6.5									
5 B 42 TB	3.8	4.2	4.55	A-1	1615	1 1/4	2 1/2	1 1/2	0	7.0	6 B 42 TB	A-1	1615	1 1/4	3 1/4	1 1/2	0	8.0	
5 B 44 TB	4.0	4.4	4.75	A-1	1615	1 1/4	2 1/2	1 1/2	0	8.0	6 B 44 TB	A-1	1615	1 1/4	3 1/4	1 1/2	0	9.0	
5 B 46 TB	4.2	4.6	4.95	A-1	1615	1 1/4	2 1/2	1 1/2	0	9.0	6 B 46 TB	A-1	1615	1 1/4	3 1/4	1 1/2	0	10.0	
5 B 48 TB	4.8	5.2	5.15	A-1	1615	1 1/4	7/8	1 1/2	1 1/4	9.4	6 B 48 TB	A-1	1615	1 1/4	1 1/4	1 1/2	2	11.0	
5 B 50 TB	4.6	5.0	5.35	A-1	1615	1 1/4	7/8	1 1/2	0	10.5	6 B 50 TB	A-1	1615	1 1/4	1 1/4	1 1/2	2	11.9	
5 B 52 TB	4.8	5.2	5.55	A-1	1615	1 1/4	7/8	1 1/2	0	11.3	6 B 52 TB	A-1	1615	1 1/4	1 1/4	1 1/2	2	12.8	
5 B 54 TB	5.0	5.4	5.75	A-1	2517	2 1/2	2 1/4	1 1/4	0	11.5	6 B 54 TB	A-1	2517	1 1/4	1 1/4	1 1/2	2	13.7	
5 B 56 TB	5.2	5.6	5.95	A-1	2517	2 1/2	2 1/4	1 1/4	0	12.0	6 B 56 TB	A-1	2517	1 1/4	1 1/4	1 1/2	2	14.6	
5 B 58 TB	5.4	5.8	6.15	A-1	2517	2 1/2	1 1/8	1 1/4	1 1/8	13.0	6 B 58 TB	A-1	2517	2 1/2	1 1/4	1 1/4	1 1/4	14.0	
5 B 60 TB	5.6	6.0	6.35	A-1	2517	2 1/2	2 1/4	1 1/4	0	14.0	6 B 60 TB	A-1	2517	2 1/2	3	1 1/4	0	16.0	
5 B 62 TB	5.8	6.2	6.55	A-1	2517	2 1/2	1 3/8	1 1/4	1 1/8	14.0	6 B 62 TB	A-1	2517	2 1/2	1 1/4	1 1/4	1 1/4	16.0	
5 B 64 TB	6.0	6.4	6.75	A-1	2517	2 1/2	2 1/4	1 1/4	0	16.0	6 B 64 TB	A-1	2517	2 1/2	3	1 1/4	0	19.5	
5 B 66 TB	6.2	6.6	6.95	A-1	2517	2 1/2	1 3/8	1 1/4	1 1/8	16.0	6 B 66 TB	A-1	2517	2 1/2	1 1/4	1 1/4	1 1/4	20.0	
5 B 68 TB	6.4	6.8	7.15	A-1	2517	2 1/2	2 1/4	1 1/4	0	18.0	6 B 68 TB	A-1	2517	2 1/2	3	1 1/4	0	21.0	
5 B 70 TB	6.6	7.0	7.35	A-1	2517	2 1/2	3/4	1 1/4	1 1/2	18.0	6 B 70 TB	A-1	2517	2 1/2	1 1/4	1 1/4	1 1/4	21.0	
5 B 74 TB	7.0	7.4	7.75	A-1	2517	2 1/2	2 1/4	1 1/4	0	22.0	6 B 74 TB	A-1	2517	2 1/2	3	1 1/4	0	25.0	
5 B 80 TB	7.6	8.9	8.35	A-1	2517	2 1/2	1/2	1 1/4	1 1/4	23.0	6 B 80 TB	A-1	2517	2 1/2	1 1/2	1 1/4	1 1/2	26.0	
5 B 86 TB	8.2	8.6	8.95	A-2	2517	2 1/2	2 1/4	1 1/4	0	24.0	6 B 86 TB	A-2	2517	2 1/2	3	1 1/4	0	27.0	
5 B 94 TB	9.0	9.4	9.75	A-2	2517	2 1/2	2 1/4	1 1/4	0	26.0	6 B 94 TB	A-2	2517	2 1/2	3	1 1/4	0	28.0	
5 B 110 TB	10.6	11.0	11.35	A-2	2517	2 1/2	2 1/4	1 1/4	0	35.0	6 B 110 TB	A-2	2517	2 1/2	3	1 1/4	0	34.0	
5 B 124 TB	12.0	12.4	12.75	A-3	2517	2 1/2	3/4	1 1/4	1 1/2	40.0	6 B 124 TB	A-3	2517	2 1/2	1 1/4	1 1/4	1 1/4	43.0	
5 B 136 TB	13.2	13.6	13.95	A-3	2517	2 1/2	1	1 1/4	1 1/4	38.0	6 B 136 TB	A-3	2517	2 1/2	1 1/4	1 1/4	1 1/4	42.0	
5 B 154 TB	15.0	15.4	15.75	A-3	2517	2 1/2	3/4	1 1/4	1 1/2	47.0	6 B 154 TB	A-3	2517	2 1/2	1 1/4	1 1/4	1 1/4	52.0	
5 B 160 TB	15.6	16.0	16.35	A-3	2517	2 1/2	3/4	1 1/4	1 1/2	67.0	6 B 160 TB	A-3	2517	2 1/2	1 1/4	1 1/4	1 1/4	53.0	
5 B 184 TB	18.0	18.4	18.75	A-3	2517	2 1/2	3/4	1 1/4	1 1/2	52.0	6 B 184 TB	A-3	2517	2 1/2	1 1/2	1 1/4	1 1/2	62.0	
5 B 200 TB	19.6	20.0	20.35	A-3	3030	3	1/4	3	3/4	75.0	6 B 200 TB	A-3	3030	3	1/2	3	1 1/4	85.0	
5 B 250 TB	24.6	25.0	25.35	A-3	3030	3	1/4	3	3/4	81.0	6 B 250 TB	A-3	3030	3	1/2	3	1 1/4	100.0	
5 B 300 TB	29.6	30.0	30.35	A-3	3030	3	1/4	3	3/4	109.0	6 B 300 TB	A-3	3030	3	1/2	3	1 1/4	137.0	
5 B 380 TB	37.6	38.0	38.35	A-3	3030	3	1/4	3	3/4	158.0	6 B 380 TB	A-3	3030	3	1/2	3	1 1/4	168.0	

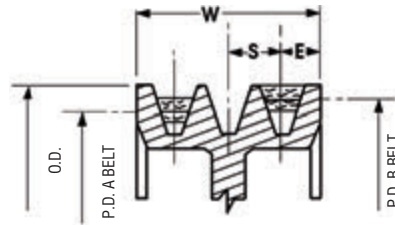
A-B Combination Groove Conventional Taper Bushed Stock Sheaves



1 = SOLID

2 = WEB

3 = ARM/SPOKE



$$W = S(N-1) + 2E$$

$$N = \text{No. of Grooves}$$

Drawing shows position of "A" and "B" belts in groove.

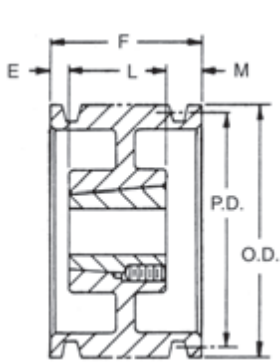
Combination Groove Dimensions

Belt Section	E	S	OD
"AB"	1/2	3/4	P.D. "B" +.35

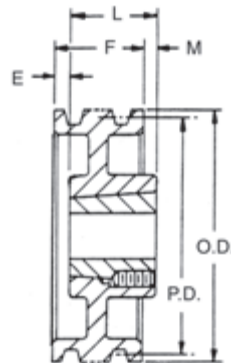
Taper Bushed Sheaves — A-B

8 Groove											10 Groove							
F = 6 1/4											F = 7 3/4							
Part Number	Diameters		OD	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush
	A Belts	B Belts																
8 B 54 TB	5.0	5.4	5.75	A-1	2517	2 1/2	1 1/8	1 1/4	2 1/2	16.0	10 B 54 TB	A-1	2517	2 1/2	3	1 1/4	3	18.0
8 B 56 TB	5.2	5.6	5.95	A-1	2517	2 1/2	1 1/8	1 1/4	2 1/2	17.0	10 B 56 TB	A-1	2517	2 1/2	3	1 1/4	3	20.0
8 B 60 TB	5.6	6.0	6.35	A-1	2517	2 1/2	1 1/8	1 1/4	2 1/2	19.0	10 B 60 TB	A-1	2517	2 1/2	3	1 1/4	3	22.0
8 B 64 TB	6.0	6.4	6.75	A-1	2517	2 1/2	1 1/8	1 1/4	2 1/2	21.0	10 B 64 TB	A-1	2517	2 1/2	3	1 1/4	3	25.5
8 B 68 TB	6.4	6.8	7.15	A-1	2517	2 1/2	1 1/8	1 1/4	2 1/2	25.0	10 B 68 TB	A-1	2517	2 1/2	3	1 1/4	3	28.0
8 B 74 TB	7.0	7.4	7.75	A-1	2517	2 1/2	1 1/8	1 1/4	2 1/2	29.0	10 B 74 TB	A-1	2517	2 1/2	3	1 1/4	3	35.0
8 B 86 TB	8.2	8.6	8.95	A-1	3030	3	1	3	2 1/2	37.0	10 B 86 TB	A-1	3030	3	2	3	2 1/2	43.0
8 B 94 TB	9.0	9.4	9.95	A-2	3030	3	1	3	2 1/2	41.0	10 B 94 TB	A-2	3030	3	2	3	2 1/2	46.0
8 B 110 TB	10.6	11.0	11.35	A-2	3030	3	1	3	2 1/2	51.0	10 B 110 TB	A-2	3030	3	2	3	2 1/2	52.0
8 B 124 TB	12.0	12.4	12.75	A-3	3030	3	1	3	2 1/2	56.0								
8 B 154 TB	15.0	15.4	15.75	A-3	3030	3	1	3	2 1/2	69.0								
8 B 184 TB	18.0	18.4	18.75	A-3	3030	3	1	3	2 1/2	99.0								
8 B 200 TB	19.6	20.0	20.35	A-3	3030	3	1	3	2 1/2	115.0								
8 B 250 TB	24.6	25.0	25.35	A-3	3535	3 1/2	3/4	3 1/2	2	145.0								
8 B 300 TB	29.6	30.0	30.35	A-3	3535	3 1/2	3/4	3 1/2	2	170.0								
8 B 380 TB	37.6	38.0	38.35	A-3	4040	4	1 1/8	4	1 1/2	260.0								

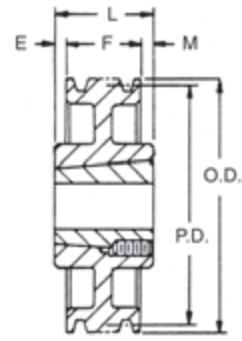
Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-8 thru B-10 for additional bushing dimensions.



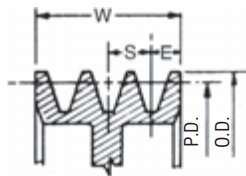
TYPE A



TYPE B



TYPE C



Groove Dimensions

Belt Section	E	S	O.D.
"C"	1/16	1	P.D. + .40

$W = S(N-1) + 2E$
 $N = \text{No. of Grooves}$



1 = SOLID



2 = WEB



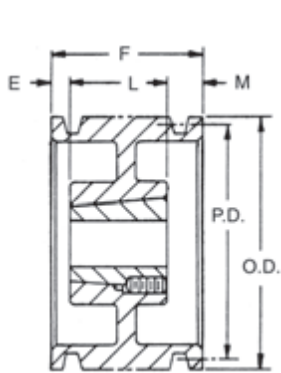
3 = ARM/SPOKE

Taper Bushed Sheaves — C

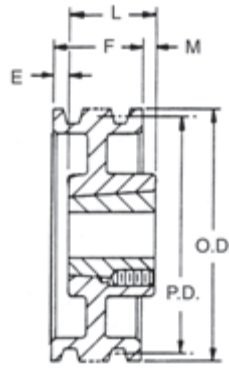
2 Groove										3 Groove							
F = 2 3/8										F = 3 3/8							
Part Number	PD	OD	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush
	C Belt																	Part Number
2 C 70 TB	7.00	7.40	A-1	2517	2 1/2	3/8	1 1/4	0	15.0	3 C 70 TB	A-1	2517	2 1/2	1/4	1 1/4	1 1/4	18.0
2 C 75 TB	7.50	7.90	A-1	2517	2 1/2	3/8	1 1/4	0	17.0	3 C 75 TB	A-1	2517	2 1/2	1/4	1 1/4	1 1/4	20.0
2 C 80 TB	8.00	8.40	A-1	2517	2 1/2	3/8	1 1/4	0	20.0	3 C 80 TB	A-1	2517	2 1/2	1/4	1 1/4	1 1/4	22.0
2 C 85 TB	8.50	8.90	A-2	2517	2 1/2	3/8	1 1/4	0	22.0	3 C 85 TB	A-2	2517	2 1/2	1/4	1 1/4	1 1/4	23.0
2 C 90 TB	9.00	9.40	A-2	2517	2 1/2	3/8	1 1/4	0	23.0	3 C 90 TB	A-2	2517	2 1/2	1/4	1 1/4	1 1/4	24.0
2 C 95 TB	9.50	9.90	A-2	2517	2 1/2	3/8	1 1/4	0	24.0	3 C 95 TB	A-2	2517	2 1/2	1/4	1 1/4	1 1/4	27.0
2 C 100 TB	10.00	10.40	A-2	2517	2 1/2	3/8	1 1/4	0	25.0	3 C 100 TB	A-2	2517	2 1/2	1/4	1 1/4	1 1/4	29.0
2 C 105 TB	10.50	10.90	A-2	2517	2 1/2	3/8	1 1/4	0	26.0	3 C 105 TB	A-2	2517	2 1/2	1/4	1 1/4	1 1/4	32.0
2 C 110 TB	11.00	11.40	A-2	2517	2 1/2	3/8	1 1/4	0	27.0	3 C 110 TB	A-2	2517	2 1/2	1/4	1 1/4	1 1/4	35.0
2 C 120 TB	12.00	12.40	A-2	2517	2 1/2	3/8	1 1/4	0	33.0	3 C 120 TB	A-2	3020	3	0	2	1 1/4	44.0
2 C 130 TB	13.00	13.40	A-3	2517	2 1/2	3/8	1 1/4	0	35.0	3 C 130 TB	A-3	3020	3	0	2	1 1/4	49.0
2 C 140 TB	14.00	14.40	A-3	2517	2 1/2	3/8	1 1/4	0	36.0	3 C 140 TB	A-3	3020	3	0	2	1 1/4	50.0
2 C 160 TB	16.00	16.40	A-3	2517	2 1/2	3/8	1 1/4	0	42.0	3 C 160 TB	A-3	3020	3	0	2	1 1/4	64.0
2 C 180 TB	18.00	18.40	A-3	3020	3	0	2	3/8	42.0	3 C 180 TB	A-3	3030	3	0	3	3/8	64.0
2 C 200 TB	20.00	20.40	A-3	3020	3	0	2	3/8	45.0	3 C 200 TB	A-3	3030	3	0	3	3/8	78.0
2 C 240 TB	24.00	24.40	A-3	3020	3	0	2	3/8	72.0	3 C 240 TB	A-3	3030	3	0	3	3/8	96.0
2 C 300 TB	30.00	30.40	C-3	3535	3 1/2	1/2	3 1/2	3/8	85.0	3 C 300 TB	B-3	3535	3 1/2	0	3 1/2	1/2	125.0
	36.00	36.40								3 C 360 TB	B-3	3535	3 1/2	0	3 1/2	1/2	175.0

Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-8 thru B-10 for additional bushing dimensions.

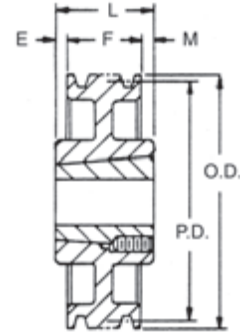
C Conventional Stock Taper Bushed Sheaves



TYPE A



TYPE B



TYPE C



1 = SOLID



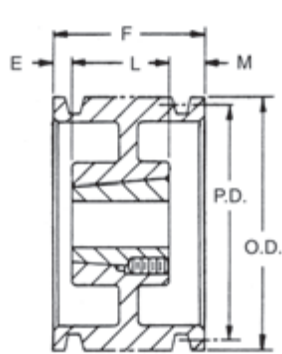
2 = WEB



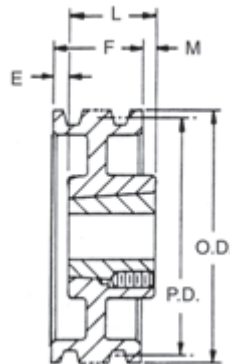
3 = ARM/SPOKE

Taper Bushed Sheaves — C

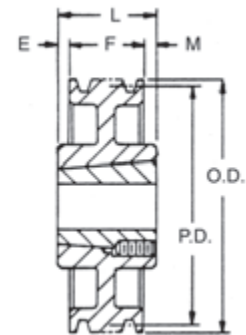
4 Groove F = 4%										5 Groove F = 5%							
Part Number	PD	OD	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush
	C Belt																
4 C 70 TB	7.00	7.40	A-1	2517	2½	½	1¼	2%	20.0	5 C 70 TB	A-1	2517	2½	1½	1¼	2½	23.0
4 C 75 TB	7.50	7.90	A-1	2517	2½	½	1¼	2%	23.0	5 C 75 TB	A-1	2517	2½	1½	1¼	2½	26.0
4 C 80 TB	8.00	8.40	A-1	2517	2½	½	1¼	2%	25.0	5 C 80 TB	A-1	2517	2½	1½	1¼	2½	30.0
4 C 85 TB	8.50	8.90	A-2	2517	2½	½	1¼	2%	26.0	5 C 85 TB	A-1	2517	2½	1½	1¼	2½	34.0
4 C 90 TB	9.00	9.40	A-2	2517	2½	½	1¼	2%	27.0	5 C 90 TB	A-2	2517	2½	1½	1¼	2½	35.0
4 C 95 TB	9.50	9.90	A-2	2517	2½	½	1¼	2%	36.0	5 C 95 TB	A-2	2517	2½	1½	1¼	2½	36.0
4 C 100 TB	10.00	10.40	A-2	2517	2½	½	1¼	2%	39.0	5 C 100 TB	A-2	2517	2½	1½	1¼	2½	39.0
4 C 105 TB	10.50	10.90	A-2	2517	2½	½	1¼	2%	42.0	5 C 105 TB	A-2	2517	2½	1½	1¼	2½	42.0
4 C 110 TB	11.00	11.40	A-2	2517	2½	½	1¼	2%	45.0	5 C 110 TB	A-2	2517	2½	1½	1¼	2½	43.0
4 C 120 TB	12.00	12.40	A-2	3030	3	0	3	1%	47.0	5 C 120 TB	A-2	3030	3	½	3	1%	58.0
4 C 130 TB	13.00	13.40	A-3	3030	3	0	3	1%	51.0	5 C 130 TB	A-3	3030	3	½	3	1%	63.0
4 C 140 TB	14.00	14.40	A-3	3030	3	0	3	1%	54.0	5 C 140 TB	A-3	3030	3	½	3	1%	65.0
4 C 160 TB	16.00	16.40	A-3	3030	3	0	3	1%	71.0	5 C 160 TB	A-3	3030	3	½	3	1%	70.0
4 C 180 TB	18.00	18.40	A-3	3030	3	0	3	1%	81.0	5 C 180 TB	A-3	3030	3	½	3	1%	83.0
4 C 200 TB	20.00	20.40	A-3	3030	3	0	3	1%	84.0	5 C 200 TB	A-3	3535	3½	0	3½	1%	110.0
4 C 240 TB	24.00	24.40	A-3	3030	3	0	3	1%	116.0	5 C 240 TB	A-3	3535	3½	0	3½	1%	138.0
4 C 300 TB	30.00	30.40	A-3	3535	3½	0	3½	½	164.0	5 C 300 TB	A-3	3535	3½	0	3½	1%	176.0
4 C 360 TB	36.00	36.40	A-3	3535	3½	0	3½	¾	192.0	5 C 360 TB	A-3	4040	4	¼	4	1%	244.0
4 C 440 TB	44.00	44.40	A-3	4040	4	0	4	¾	282.0	5 C 440 TB	A-3	4040	4	¼	4	1%	288.0



TYPE A



TYPE B



TYPE C



1 = SOLID



2 = WEB

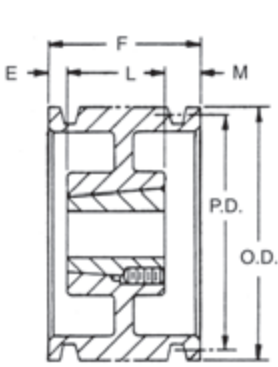


3 = ARM/SPOKE

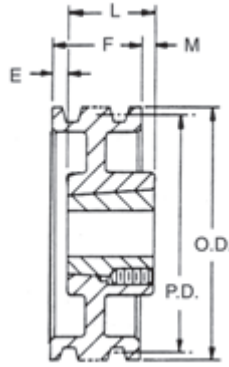
Taper Bushed Sheaves — C

6 Groove F = 6%										8 Groove F = 8%								
Part Number	PD	OD	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush	
	C Belt																	Part Number
6 C 70 TB	7.00	7.40	A-1	3030	3	1	3	2%	30.0	8 C 80 TB	A-1	3030	3	2	3	3%	45.0	
6 C 75 TB	7.50	7.90	A-1	3030	3	1	3	2%	31.0		8 C 85 TB	A-1	3030	3	2	3	3%	47.0
6 C 80 TB	8.00	8.40	A-1	3030	3	1	3	2%	35.0		8 C 90 TB	A-1	3535	3½	1½	3½	3%	64.0
6 C 85 TB	8.50	8.90	A-1	3030	3	1	3	2%	40.0		8 C 95 TB	A-1	3535	3½	1½	3½	3%	67.0
6 C 90 TB	9.00	9.40	A-1	3030	3	1	3	2%	47.0		8 C 100 TB	A-1	3535	3½	1½	3½	3%	70.0
6 C 95 TB	9.50	9.90	A-1	3030	3	1	3	2%	53.0	8 C 105 TB	A-1	3535	3½	1½	3½	3%	84.0	
6 C 100 TB	10.00	10.40	A-1	3030	3	1	3	2%	57.0	8 C 110 TB	A-1	3535	3½	1½	3½	3%	87.0	
6 C 105 TB	10.50	10.90	A-2	3030	3	1	3	2%	58.0	8 C 120 TB	A-2	3535	3½	1½	3½	3%	90.0	
6 C 110 TB	11.00	11.40	A-2	3030	3	1	3	2%	66.0	8 C 130 TB	A-2	3535	3½	1½	3½	3%	97.0	
6 C 120 TB	12.00	12.40	A-2	3030	3	1	3	2%	70.0	8 C 140 TB	A-2	3535	3½	1½	3½	3%	105.0	
6 C 130 TB	13.00	13.40	A-3	3030	3	1	3	2%	75.0	8 C 160 TB	A-3	3535	3½	1½	3½	3%	115.0	
6 C 140 TB	14.00	14.40	A-3	3535	3½	½	3½	2%	80.0	8 C 180 TB	A-3	4040	4	1½	4	2%	137.0	
6 C 160 TB	16.00	16.40	A-3	3535	3½	½	3½	2%	87.0	8 C 200 TB	A-3	4040	4	1½	4	2%	180.0	
6 C 180 TB	18.00	18.40	A-3	3535	3½	½	3½	2%	102.0	8 C 240 TB	A-3	4040	4	1½	4	2%	205.0	
6 C 200 TB	20.00	20.40	A-3	3535	3½	½	3½	2%	126.0	8 C 300 TB	A-3	4040	4	1½	4	2%	263.0	
6 C 240 TB	24.00	24.40	A-3	3535	3½	½	3½	2%	150.0	8 C 360 TB	A-3	4545	4½	1½	4½	2%	343.0	
6 C 300 TB	30.00	30.40	A-3	4040	4	1	4	1%	226.0	8 C 440 TB	A-3	4545	4½	1½	4½	2%	432.0	
6 C 360 TB	36.00	36.40	A-3	4040	4	1	4	1%	270.0									
6 C 440 TB	44.00	44.40	A-3	4040	4	1	4	1%	320.0									

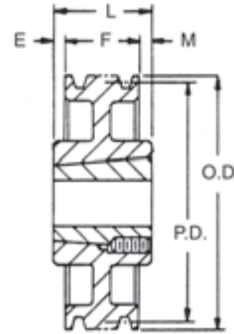
C Conventional Stock Taper Bushed Sheaves



TYPE A



TYPE B



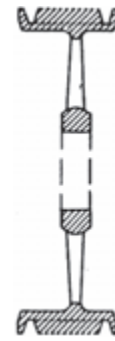
TYPE C



1 = SOLID



2 = WEB

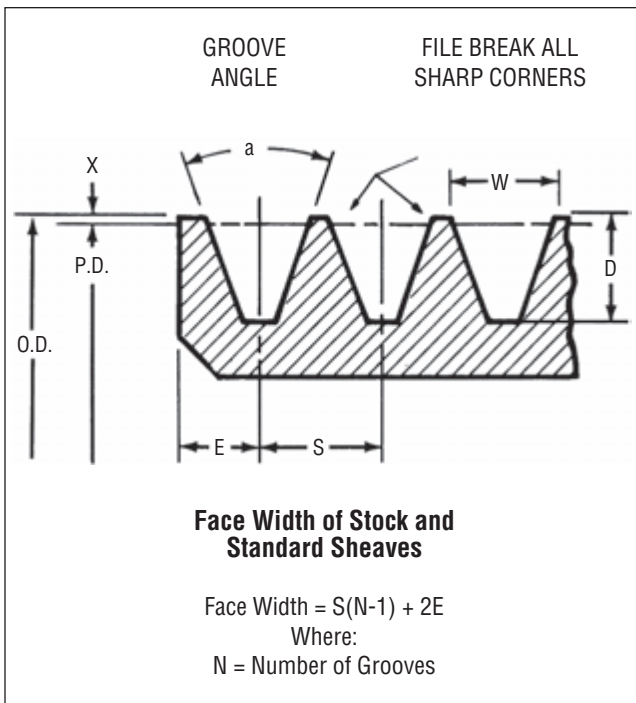


3 = ARM/SPOKE

Taper Bushed Sheaves — C

10 Groove										12 Groove							
F = 10%										F = 12%							
Part Number	PD	OD	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush	Part Number	Type	Bush	Bush Max. Bore	E	L Thru Bore	M	Wt. Less Bush
	C Belt																	Part Number
10 C 90 TB	9.00	9.40	A-1	4545	4 1/4	1 1/2	4 1/2	4 3/4	57.0	12 C 90 TB	A-1	4040	4	3 1/2	4	4 1/4	65.0
10 C 95 TB	9.50	9.90	A-1	4545	4 1/4	1 1/2	4 1/2	4 3/4	66.0	12 C 95 TB	A-1	4040	4	3 1/2	4	4 1/4	75.0
10 C 100 TB	10.00	10.40	A-1	4545	4 1/4	1 1/2	4 1/2	4 3/4	77.0	12 C 100 TB	A-1	4040	4	3 1/2	4	4 1/4	85.0
10 C 105 TB	10.50	10.90	A-1	4545	4 1/4	1 1/2	4 1/2	4 3/4	87.0	12 C 105 TB	A-1	4040	4	3 1/2	4	4 1/4	95.0
10 C 110 TB	11.00	11.40	A-1	4545	4 1/4	1 1/2	4 1/2	4 3/4	98.0	12 C 110 TB	A-1	4040	4	3 1/2	4	4 1/4	104.0
10 C 120 TB	12.00	12.40	A-1	4545	4 1/4	1 1/2	4 1/2	4 3/4	121.0	12 C 120 TB	A-1	4040	4	3 1/2	4	4 1/4	126.0
10 C 130 TB	13.00	13.40	A-1	4545	4 1/4	2	4 1/2	3 3/4	146.0	12 C 130 TB	A-1	4545	4 1/4	3	4 1/2	4 1/4	156.0
10 C 140 TB	14.00	14.40	A-2	4545	4 1/4	2	4 1/2	3 3/4	170.1	12 C 140 TB	A-1	4545	4 1/4	3	4 1/2	4 1/4	184.0
10 C 160 TB	16.00	16.40	A-2	4545	4 1/4	2	4 1/2	3 3/4	173.4								
10 C 180 TB	18.00	18.40	A-2	4545	4 1/4	2	4 1/2	3 3/4	180.1								
10 C 200 TB	20.00	20.40	A-3	4545	4 1/4	2	4 1/2	3 3/4	201.0								
10 C 240 TB	24.00	24.40	A-3	4545	4 1/4	2	4 1/2	3 3/4	243.0								
10 C 300 TB	30.00	30.40	A-3	4545	4 1/4	2	4 1/2	3 3/4	320.0								
10 C 360 TB	36.00	36.40	A-3	4545	4 1/4	2	4 1/2	3 3/4	464.0								
10 C 440 TB	44.00	44.40	A-3	4545	4 1/4	2	4 1/2	3 3/4	508.0								

Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-8 thru B-10 for additional bushing dimensions.



HI-CAP WEDGE SHEAVES TOLERANCES

Outside Diameter	
Under 12.00"	± .005"
12.00" thru 17.99"	+ .010"
18.00" thru 36.00"	± .015"
Over 36.00"	± .020"
Outside Diameter Eccentricity	
Under 9.00"	.008"
9.00" thru 13.99"	.010"
14.00" thru 36.00"	.012"
Over 36.00"	.020"
Side Wobble And Runout	
20.00" O.D. & Under	not to exceed .001" per inch of diameter
Over 20.00" O.D.	.010" plus .0005" per inch of O.D.

Standard Sheaves

Belt	Minimum Recommended Outside Diameter	Outside Effective Diameter	a Groove Angle	Groove Dimensions				
				W	D	X	S	E
3V	2.65	Under 3.5	36°	.350	.350	.025	.407	.344
		3.5 - 6	38°	.350	.350	.025	.407	.344
		6.01-12	40°	.350	.350	.025	.407	.344
		Over 12	42°	.350	.350	.025	.407	.344
5V	7.1	Under 10	38°	.600	.600	.050	.688	.500
		10 - 16	40°	.600	.600	.050	.688	.500
		Over 16	42°	.600	.600	.050	.688	.500
8V	12.5	Under 16	38°	1	1	.100	1.125	.750
		16-22.4	40°	1	1	.100	1.125	.750
		Over 22.4	42°	1	1	.100	1.125	.750

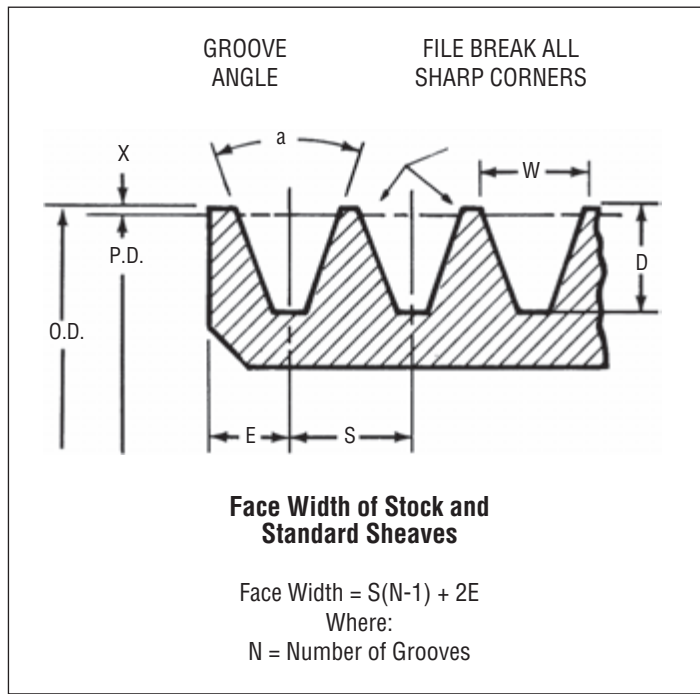
Dimensions in inches

Conventional Groove Dimensions and Tolerances



CONVENTIONAL SHEAVE TOLERANCES

Outside Diameter	
Under 12.00"	± .020"
12.00" thru 23.99"	± .040"
24.00" thru 57.99"	± .060"
58.00" thru 71.99"	± .120"
Over 72.00"	± .250"
Outside Diameter Eccentricity	
Under 10.00" P.D.	.010"
10.01" thru 60.00" P.D.	.010" plus .0005" per inch of P.D.
Over 60.00" P.D.	Add .001" for each add'l inch of P.D.
Side Wobble And Runout	
20.00" P.D. & Under	not to exceed .001" per inch of P.D.
20.00" thru 60.00" P.D.	Add .0005" for each add'l inch of P.D. up to 60.00"
Over 60.00" P.D.	Add .001" for each add'l inch of P.D. above 60.00"



Standard Sheaves

Belt	Minimum Recommended Pitch Diameter	P.D. Range	a Groove Angle ± ½°	Groove Dimensions						
				W	D ± .031	X	S* ± .031	E		
A	3.0	2.6 - 5.4	34°	.494	± .005	.490	.125	.625	.375	+ .070 - .000
		Over 5.4	38°	.504						
B	5.4	4.6 - 7.0	34°	.637	± .005	.580	.175	.750	.500	+ .150 - .000
		Over 7.0	38°	.650						
A - B	A 3.0 B 5.4	3.4 - 6.8	34°	.612	± .005	.625	.175	.750	.500	+ .150 - .000
		Over 6.8	38°	.625						
C	9.0	7.0 - 7.99	34°	.879	± .007	.780	.200	1	.688	+ .150 - .000
		8.0 - 12.0	36°	.887						
		Over 12.0	38°	.895						
D	13.0	12.0 - 12.99	34°	1.259	± .007	1.050	.300	1.438	.875	+ .250 - .000
		13.0 - 17.0	36°	1.271						
		Over 17.0	38°	1.283						
E	21.0	18.0 - 24.0	36°	1.527	± .010	1.300	.400	1.75	1.123	+ .250 - .000
		Over 24.0	38°	1.542						

Deep Groove Sheaves

Belt	Minimum Recommended Pitch Diameter	P.D. Range	a Groove Angle ± ½°	Groove Dimensions						
				W	D ± .031	X	S* ± .031	E		
A	3.0	2.6 - 5.4	34°	.589	± .005	.645	.280	.750	.438	+ .070 - .000
		Over 5.4	38°	.611						
B	5.4	4.6 - 7.0	34°	.747	± .005	.760	.355	.875	.563	+ .150 - .000
		Over 7.0	38°	.774						
C	9.0	7.0 - 7.99	34°	1.066	± .007	1.085	.505	1.25	.813	+ .150 - .000
		8.0 - 12.0	36°	1.085						
		Over 12.0	38°	1.105						
D	13.0	12.0 - 12.99	34°	1.513	± .007	1.465	.715	1.750	1.063	+ .250 - .000
		13.0 - 17.0	36°	1.541						
		Over 17.0	38°	1.569						
E	21.0	18.0 - 24.0	36°	1.816	± .010	1.745	.845	2.063	1.313	+ .250 - .000
		Over 24.0	38°	1.849						

Dimensions in inches

*Summation of the deviations from "S" for all grooves in any one sheave shall not exceed ± .063. Available on request, deep groove sheaves are intended for quarter turn drives and for long center vertical shaft drives. They may also be necessary for such applications as car shakers, vibrating screens and certain types of crushers where oscillation in center distance may occur.



Stock Drive Selection

To select the best V-Belt Drive for an application, utilizing stock sheaves, simply follow the step by step instructions below:

BEFORE SELECTING A DRIVE, YOU NEED TO KNOW THESE FACTS:

1. The horsepower requirement of the drive.
2. The RPM of the driver.
3. The RPM of the driven machine.
4. The approximate center distance for the drive.
5. Shaft size of both units.
6. Average hours of operation per day.

TABLE 1 — SERVICE FACTORS

THE CORRECT SERVICE FACTOR IS DETERMINED BY:

1. The extent and frequency of peak loads.
2. The number of operating hours per year, broken down into average hours per day of continuous service.
3. The proper service category, (intermittent, normal or continuous). Select the one that most closely approximates your application conditions.

INTERMITTENT SERVICE — SERVICE FACTOR 1.0 TO 1.5

- a. Light Duty — Not more than 6 hours per day.
- b. Never exceeding rated load.

NORMAL SERVICE — SERVICE FACTOR 1.1 TO 1.6

- a. Daily service 6 to 16 hours per day.
- b. Where occasional starting or peak load does not exceed 200% of the full load.

CONTINUOUS SERVICE — SERVICE FACTOR 1.2 TO 1.8

- a. Continuous service 16 to 24 hours per day.
- b. Where starting or peak load is in excess of 200% of the full load or where starting or peak loads and overloads occur frequently.

TYPICAL SERVICE FACTORS

DRIVEN MACHINE TYPES	DRIVER TYPES													
<p>Driven machine types noted below are representative samples only. Select a category most closely approximating your application from those listed below.</p> <p>IF IDLERS ARE USED, ADD THE FOLLOWING TO THE SERVICE FACTOR:</p> <table border="0"> <tr> <td>Idler on slack side (inside)</td> <td>None</td> </tr> <tr> <td>Idler on slack side (outside)</td> <td>0.1</td> </tr> <tr> <td>Idler on tight side (inside)</td> <td>0.1</td> </tr> <tr> <td>Idler on tight side (outside)</td> <td>0.2</td> </tr> </table>	Idler on slack side (inside)	None	Idler on slack side (outside)	0.1	Idler on tight side (inside)	0.1	Idler on tight side (outside)	0.2	ELECTRIC MOTORS:			ELECTRIC MOTORS:		
	Idler on slack side (inside)	None												
Idler on slack side (outside)	0.1													
Idler on tight side (inside)	0.1													
Idler on tight side (outside)	0.2													
	INTERMITTENT SERVICE	NORMAL SERVICE	CONTINUOUS SERVICE	INTERMITTENT SERVICE	NORMAL SERVICE	CONTINUOUS SERVICE								
Agitators for Liquids Blowers and Exhausters Centrifugal Pumps and Compressors Fans up to 10 HP Light Duty Conveyors	1.0	1.1	1.2	1.1	1.2	1.3								
Belt Conveyors For Sand, Grain, etc. Dough Mixers Fans Over 10 HP Generators Line Shafts Laundry Machinery Machine Tools Punches-Presses-Shears Printing Machinery Positive Displacement Rotary Pumps Revolving and Vibrating Screens	1.1	1.2	1.3	1.2	1.3	1.4								
Brick Machinery Bucket Elevators Exciters Piston Compressors Conveyors (Drag-Pan-Screw) Hammer Mills Paper Mill Beaters Piston Pumps Positive Displacement Blowers Pulverizers Saw Mill and Woodworking Machinery Textile Machinery	1.2	1.3	1.4	1.4	1.5	1.6								
Crushers (Gyratory-Jaw-Roll) Mills (Ball-Rod-Tube) Hoists Rubber Calenders-Extruders-Mills	1.3	1.4	1.5	1.5	1.6	1.8								
Chokable Equipment	2.0	2.0	2.0	2.0	2.0	2.0								

FOR A GOOD COMMERCIAL DRIVE SELECTION, USE CONTINUOUS SERVICE FACTOR

Made-To-Order Sheaves

Martin has the capacity to produce a wide range of Made-To-Order Sheaves. These sheaves meet the same quality standards as our stock line of QD and Taper Bushed Sheaves.

Since Made-To-Order Sheaves can be manufactured to meet most customer requirements, the following pages give standard dimensions for Made-To-Order Sheaves. *Martin* can alter these dimensions such as hub location, length through bore, to meet desired requirements. These sheaves are normally Bored-To-Size and are furnished with standard keyway and two set screws as indicated. However, most Made-To-Order Sheaves can be furnished in QD or Taper Bushed style hubs. Also, *Martin* can furnish Made-To-Order Sheaves in a split construction. Consult factory with specific requirements.



WIRE ROPE IDLER



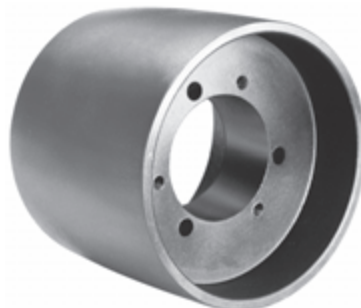
FLAT BELT PULLEY



DUPLEX — SHEAVE AND
FLAT BELT



POLY-V SHEAVE

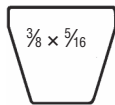


CROWN FACE PULLEY

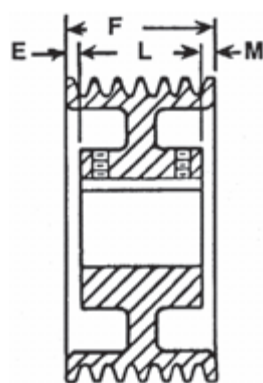


IDLER SHEAVE

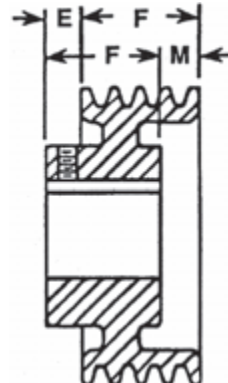
All *Martin* sheaves and timing pulleys can be manufactured to meet your special requirements: Aluminum, Brass, Ductile, Steel, Stainless Steel. *Martin*, service and quality drive components you can depend on to get the job done.



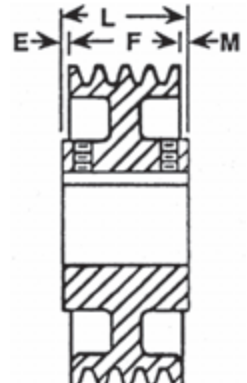
MTO — 3V



TYPE A



TYPE D



TYPE C

O.D. ■ Range	1 — Groove, F = ◆				2 — Groove, F = ○				3 — Groove, F = 1½			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
2.65-4.9	D	1½	⅝	—	D	1½	⅝	¾	D	1½	⅝	½
5.0-10.9	D	1½	⅝	⅜	C	1¾	⅝	½	D	1¾	⅝	⅝
11.0-13.9	C	1¾	⅝	⅜	C	2¼	⅝	½	C	2¼	⅝	⅝
14.0-16.9	C	1¾	⅝	⅜	C	2¼	⅝	½	C	2¼	⅝	⅝
17.0-24.9	C	1¾	⅝	⅜	C	2¼	⅝	⅝	C	3	¾	¾
25.0-33.5	C	1¾	¼	¼	C	2½	⅝	⅝	C	3¾	¾	¾
2.65-4.9	D	1½	⅝	⅜	D	2¼	⅝	½	D	2¼	⅝	1¾

O.D. ■ Range	4 — Groove, F = 1 ²⁹ / ₃₂				5 — Groove, F = 2 ⁵ / ₁₆				6 — Groove, F = 2 ²³ / ₃₂			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
2.65-4.9	D	1½	⅝	⅜	D	2¼	⅝	½	D	2¼	⅝	1¾
5.0-6.9	D	1¾	⅝	⅜	D	2¼	⅝	½	D	2¼	⅝	1¾
7.0-10.9	D	2¼	⅝	⅜	D	2¼	⅝	½	D	2¼	⅝	1¾
11.0-20.9	D	2½	⅝	⅜	C	3	⅝	½	D	3	⅝	1¾
21.0-29.9	C	3	⅝	⅜	C	3¼	⅝	½	C	3½	⅝	1¾
30.0-33.5	C	3½	⅝	⅜	C	3½	⅝	½	C	4	⅝	1¾

O.D. ■ Range	8 — Groove, F = 3 ¹⁷ / ₃₂				10 — Groove, F = 4 ¹¹ / ₃₂				12 — Groove, F = 5 ⁵ / ₃₂			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
4.0-4.9	D	2¼	⅝	⅜	D	2½	⅝	½	D	3½	⅝	2¾
5.0-6.9	D	2½	⅝	⅜	D	2½	⅝	½	D	3½	⅝	2¾
7.0-13.9	D	3	⅝	⅜	D	3¼	⅝	½	D	3½	⅝	2¾
14.0-16.9	D	3½	⅝	⅜	D	3½	⅝	½	D	3½	⅝	2¾
17.0-20.9	C	4	⅝	⅜	D	4	⅝	½	D	4	⅝	2¾
21.0-33.5	C	4½	⅝	⅜	C	4½	⅝	½	A	4½	⅝	2¾

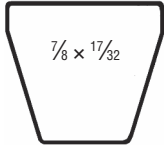
O.D. ■ Range	14 — Groove, F = 5 ³¹ / ₃₂				16 — Groove, F = 6 ²³ / ₃₂				18 — Groove, F = 7 ¹⁹ / ₃₂			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
4.0-8.9	D	3	⅝	⅜	D	4	⅝	½	D	4	⅝	4¾
9.0-16.9	D	3	⅝	⅜	D	4	⅝	½	D	4	⅝	4¾
17.0-20.9	D	4	⅝	⅜	D	4½	⅝	½	D	4½	⅝	4¾
21.0-24.9	A	4	⅝	⅜	A	4½	⅝	½	A	4½	⅝	4¾
25.0-29.9	A	4	⅝	⅜	A	4½	⅝	½	A	4½	⅝	4¾
30.0-33.5	A	5	⅝	⅜	A	5	⅝	½	A	5	⅝	4¾
2.65-4.9	D	1½	⅝	⅜	D	2¼	⅝	½	D	2¼	⅝	1¾

■ P.D. = O.D. - .05"

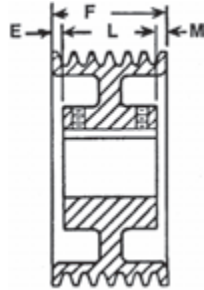
◆ 1/16" for 2.65-10.9 O.D., 1/16" for 11.0-16.9 O.D., 1" for 17.0-24.9 O.D., 1¼" for 25.0-33.5 O.D.

○ 1/32" for 2.65-16.9 O.D., 1¼" for 17.0-33.5 O.D.

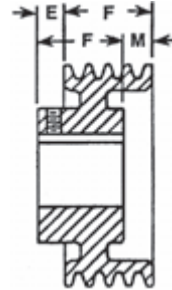
Made-To-Order Sheaves



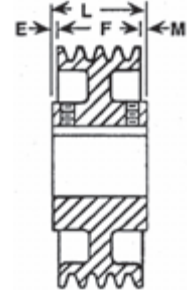
MTO — 5V



TYPE A



TYPE D



TYPE C

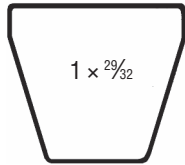
O.D. ■ Range	2 — Groove, F = 1 ¹¹ / ₁₆				3 — Groove, F = 2 ³ / ₈				4 — Groove, F = 3 ³ / ₁₆			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
7.0-10.9	D	2 ¹ / ₄	³ / ₈	⁵ / ₁₆	D	2 ¹ / ₂	³ / ₈	³ / ₈	D	3	³ / ₈	¹⁵ / ₁₆
11.0-23.9	D	2 ¹ / ₄	³ / ₈	⁵ / ₁₆	D	3 ¹ / ₄	³ / ₈	—	D	3 ¹ / ₂	³ / ₈	⁷ / ₁₆
24.0-29.9	C	2 ¹ / ₂	¹³ / ₃₂	¹³ / ₃₂	C	3 ¹ / ₂	³ / ₁₆	⁹ / ₁₆	C	4	¹³ / ₃₂	¹³ / ₃₂
30.0-44.9	C	3 ¹ / ₂	²⁹ / ₃₂	²⁹ / ₃₂	C	4 ¹ / ₂	1 ¹ / ₁₆	1 ¹ / ₁₆	C	5 ¹ / ₄	1 ¹ / ₂	1 ³ / ₂
45.0-75.0	C	5	1 ³ / ₃₂	1 ³ / ₃₂	C	5 ¹ / ₄	1 ¹ / ₁₆	1 ¹ / ₁₆	C	6	1 ¹ / ₃₂	1 ¹ / ₃₂

O.D. ■ Range	5 — Groove, F = 3 ³ / ₄				6 — Groove, F = 4 ⁷ / ₁₆				8 — Groove, F = 5 ¹³ / ₁₆			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
7.0-11.9	D	3 ³ / ₄	³ / ₈	1 ³ / ₈	D	3 ¹ / ₂	³ / ₈	1 ¹³ / ₁₆	D	4	³ / ₈	2 ¹¹ / ₁₆
12.0-23.9	D	4	³ / ₈	⁵ / ₈	D	4	³ / ₈	1 ¹ / ₈	D	4 ¹ / ₂	³ / ₈	2 ³ / ₁₆
24.0-44.9	C	4 ¹ / ₂	³ / ₈	³ / ₈	C	5 ¹ / ₄	¹³ / ₃₂	¹³ / ₃₂	A	5 ¹ / ₂	⁵ / ₃₂	⁵ / ₃₂
45.0-52.9	C	5 ¹ / ₄	³ / ₄	³ / ₄	C	6	²⁹ / ₃₂	²⁹ / ₃₂	C	6	⁹ / ₃₂	⁹ / ₃₂
53.0-75.9	C	6 ¹ / ₂	1 ¹ / ₈	1 ¹ / ₈	C	6 ¹ / ₂	1 ¹ / ₃₂	1 ¹ / ₃₂	C	6 ¹ / ₂	1 ¹ / ₃₂	1 ¹ / ₃₂

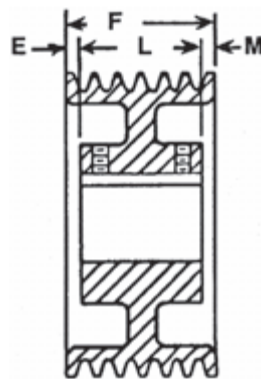
O.D. ■ Range	10 — Groove, F = 7 ⁷ / ₁₆				12 — Groove, F = 8 ⁹ / ₁₆				14 — Groove, F = 9 ¹⁵ / ₁₆			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
9.0-23.9	D	4 ¹ / ₄	³ / ₈	3 ³ / ₃₂	D	5	³ / ₈	4 ¹ / ₁₆	D	6	³ / ₈	4 ¹³ / ₁₆
24.0-36.9	A	4 ¹ / ₂	1 ¹¹ / ₃₂	1 ¹ / ₃₂	A	5 ¹ / ₂	1 ¹ / ₃₂	1 ¹ / ₃₂	A	6 ¹ / ₂	1 ²³ / ₃₂	1 ³ / ₃₂
37.0-44.9	A	5 ¹ / ₂	²⁷ / ₃₂	²⁷ / ₃₂	A	6	1 ¹ / ₃₂	1 ¹ / ₃₂	A	7	1 ¹ / ₃₂	1 ¹ / ₃₂
45.0-52.9	A	6	¹⁹ / ₃₂	¹⁹ / ₃₂	A	6	1 ¹ / ₃₂	1 ¹ / ₃₂	A	7 ¹ / ₂	1 ¹ / ₃₂	1 ¹ / ₃₂
53.0-75.9	A	7	³ / ₃₂	³ / ₃₂	A	7	²⁹ / ₃₂	²⁹ / ₃₂	A	8	³ / ₃₂	³ / ₃₂

O.D. ■ Range	16 — Groove, F = 11 ¹¹ / ₁₆				18 — Groove, F = 12 ¹¹ / ₁₆				20 — Groove, F = 14 ¹ / ₁₆			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
9.0-23.9	D	6 ¹ / ₂	³ / ₈	5 ¹ / ₁₆	D	7	³ / ₈	6 ¹ / ₁₆	D	8	³ / ₈	6 ¹³ / ₁₆
24.0-36.9	A	7	2 ²⁹ / ₃₂	1 ¹ / ₃₂	A	8	2 ¹ / ₃₂	2 ¹ / ₃₂	A	8 ¹ / ₂	2 ²⁹ / ₃₂	2 ²⁹ / ₃₂
37.0-44.9	A	7 ¹ / ₂	1 ²³ / ₃₂	1 ²³ / ₃₂	A	8 ¹ / ₂	2 ²⁹ / ₃₂	2 ²⁹ / ₃₂	A	9	2 ¹ / ₃₂	2 ¹ / ₃₂
45.0-52.9	A	8	1 ²³ / ₃₂	1 ²³ / ₃₂	A	9	1 ²⁷ / ₃₂	1 ²⁷ / ₃₂	A	9 ¹ / ₂	2 ²⁹ / ₃₂	2 ²⁹ / ₃₂
53.0-62.9	A	8 ¹ / ₂	1 ¹ / ₃₂	1 ¹ / ₃₂	A	9 ¹ / ₂	1 ¹ / ₃₂	1 ¹ / ₃₂	A	10	2 ¹ / ₃₂	2 ¹ / ₃₂
63.0-75.0	A	9	1 ¹ / ₃₂	1 ¹ / ₃₂	A	10 ¹ / ₂	1 ¹ / ₃₂	1 ¹ / ₃₂	A	12	1 ¹ / ₃₂	1 ¹ / ₃₂

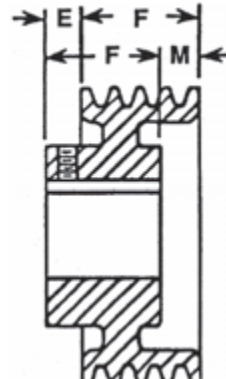
■ P.D. = O.D. - .10"



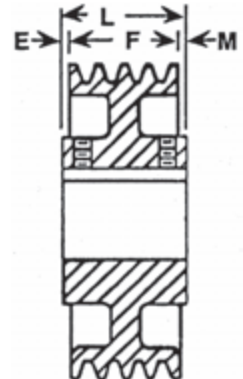
MTO — 8V



TYPE A



TYPE D



TYPE C

O.D. ■ Range	4 — Groove, F = 4%				5 — Groove, F = 6				7 — Groove, F = 7%			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
13.0-26.9	D	5	1 1/8	1	D	5 1/2	1 1/8	1 1/8	D	6	1 1/8	2 1/4
27.0-39.9	D	5 1/2	3/16	3/16	C	6	0	0	A	7	3/16	3/16
40.0-57.9	C	6	3/16	3/16	C	7	1/2	1/2	C	7 1/2	3/16	3/16
58.0-69.9	C	7	1 1/16	1 1/16	C	8	0	0	C	8	3/16	3/16
70.0-81.9	C	8	1 1/16	1 1/16	C	8 1/4	1 1/4	1 1/4	C	9	1 1/16	1 1/16
82.0-85.0	C	8 1/2	1 1/16	1 1/16	C	9	1 1/2	1 1/2	C	10	1 1/16	1 1/16

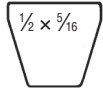
O.D. ■ Range	8 — Groove, F = 9%				10 — Groove, F = 11%				12 — Groove, F = 13%			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
13.0-29.9	D	6 1/2	1 1/8	4	D	7	1 1/8	5 3/4	D	8	1 1/8	7
30.0-39.9	A	7 1/2	1 1/16	1 1/16	A	8	1 1/16	1 1/16	A	8 1/2	2 1/16	2 1/16
40.0-57.9	A	8	1 1/16	1 1/16	A	9	1 1/16	1 1/16	A	9 1/2	2 3/16	2 3/16
58.0-69.9	A	9	3/16	3/16	A	9 1/2	1 1/16	1 1/16	A	10	1 1/16	1 1/16
70.0-81.9	C	9 1/2	1/16	1/16	A	10	1 1/16	1 1/16	A	11	1 1/16	1 1/16
82.0-85.0	C	10	3/16	3/16	A	11	3/16	3/16	A	12	1 1/16	1 1/16

O.D. ■ Range	14 — Groove, F = 16%				16 — Groove, F = 18%				18 — Groove, F = 20%			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
13.0-29.9	D	9 1/4	1 1/8	7 3/4	D	10 1/2	1 1/8	9	D	16 1/2	1 1/8	5 1/4
30.0-39.9	A	9	3 3/16	3 3/16	A	10	4 3/16	4 3/16	A	12	4 3/16	4 3/16
40.0-57.9	A	10	3 3/16	3 3/16	A	10 1/2	3 3/16	3 3/16	A	12 1/2	4 3/16	4 3/16
58.0-69.9	A	11	2 3/16	2 3/16	A	11	3 1/16	3 1/16	A	13	3 3/16	3 3/16
70.0-81.9	A	12	2 3/16	2 3/16	A	12	3 3/16	3 3/16	A	14	3 3/16	3 3/16
82.0-85.0	A	13	1 1/16	1 1/16	A	13	2 1/16	2 1/16	A	15	2 3/16	2 3/16

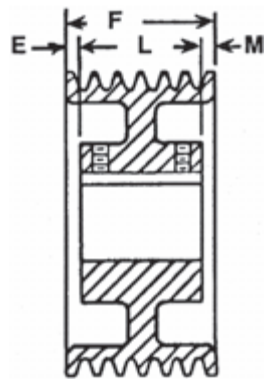
O.D. ■ Range	20 — Groove, F = 22%				22 — Groove, F = 25%				24 — Groove, F = 27%			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
13.0-29.9	D	18	1 1/8	6	D	19	1 1/8	7 1/4	D	22	1 1/8	6 1/2
30.0-39.9	A	13 1/2	4 1/16	4 1/16	A	20 1/2	2 3/16	2 3/16	A	22	2 1/16	2 1/16
40.0-57.9	A	14	4 3/16	4 3/16	A	15	5 1/16	5 1/16	A	23	2 3/16	2 3/16
58.0-69.9	A	14 1/2	4 3/16	4 3/16	A	16	4 3/16	4 3/16	A	17	5 3/16	5 3/16
70.0-81.9	A	15	3 3/16	3 3/16	A	16 1/2	4 3/16	4 3/16	A	17 1/2	4 3/16	4 3/16
82.0-85.0	A	16	3 3/16	3 3/16	A	17	4 3/16	4 3/16	A	18	4 3/16	4 3/16

■ P.D. = O.D. - .20"

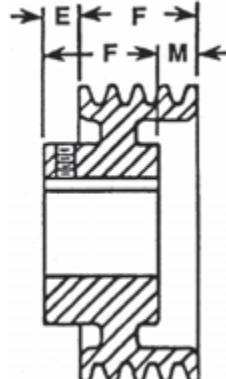
Made-To-Order Sheaves



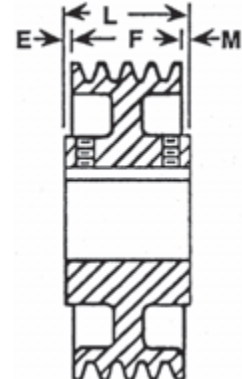
MTO — A



TYPE A



TYPE D



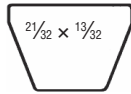
TYPE C

O.D. ■ Range	1 — Groove, F = ◆				2 — Groove, F = 1%				3 — Groove, F = 2			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
3.0-6.9	D	1%	%	—	D	1%	%	%	D	1%	%	1%
7.0-11.9	D	1%	%	¼	D	2	%	—	D	2	%	%
12.0-20.9	C	2	%	¾	D	2	%	—	D	2	%	%
21.0-25.0	C	2	½	½	C	2	⅝	⅝	C	2½	¼	¼

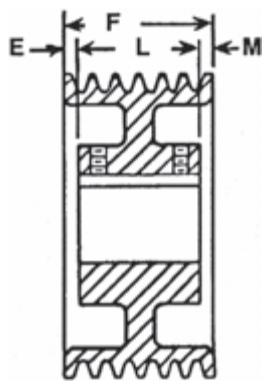
O.D. ■ Range	4 — Groove, F = 2%				5 — Groove, F = ¾				6 — Groove, F = ¾			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
3.0-6.9	D	2	%	1¼	D	2½	%	1%	D	2¾	%	1%
7.0-14.9	A	2	%	1¼	D	2½	%	1%	D	2¾	%	1%
15.0-20.9	A	2½	%	¾	D	3	%	⅞	D	3½	%	1
21.0-25.0	A	2½	⅞	⅞	A	3	½	½	A	3½	⅞	⅞

O.D. ■ Range	7 — Groove, F = 4½				8 — Groove, F = 5%				10 — Groove, F = 6%			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
3.0-6.9	D	3	%	2¼	D	3½	%	2¼	D	3½	%	3½
7.0-14.9	D	3	%	2¼	D	3½	%	2¼	D	3½	%	3½
15.0-20.9	D	3½	%	1¾	D	4	%	1¾	D	4	%	3
21.0-25.0	A	3½	½	½	A	4	⅞	⅞	A	4	1⅞	1⅞

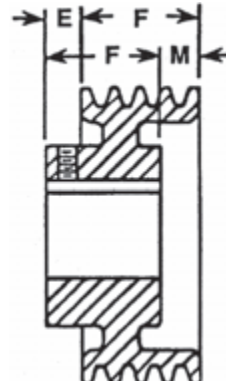
■ P.D. = O.D. + .25"
◆ ¾" for 3.0-6.9 P.D., ⅞" for 7.0-11.9 P.D., 1" for 12.0-25.0 P.D.



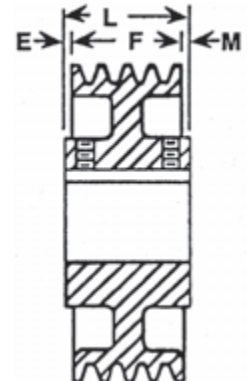
MTO — B



TYPE A



TYPE D



TYPE C

O.D. ■ Range	2 — Groove, F = 1 1/4				3 — Groove, F = 2 1/2				4 — Groove, F = 3 1/4			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
5.0-6.9	D	2 1/4	3/8	3/8	D	2 1/4	3/8	3/8	D	3	3/8	1 1/8
7.0-20.9	D	2 1/4	3/8	3/8	D	2 1/4	3/8	3/8	D	3	3/8	1 1/8
21.0-39.0	C	3	3/8	3/8	C	3	1/2	1/2	C	3 1/2	3/8	3/8

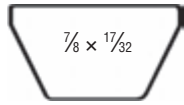
O.D. ■ Range	5 — Groove, F = 4				6 — Groove, F = 4 3/4				7 — Groove, F = 5 1/2			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
5.0-8.9	D	3	3/8	1 1/8	D	3	3/8	2 1/8	D	3	3/8	3 3/8
9.0-20.9	D	3	3/8	1 1/8	D	3 1/2	3/8	2 1/8	D	3 1/2	3/8	2 1/8
21.0-29.9	A	3 3/4	1/2	1/2	A	3 3/4	3/8	3/8	A	4	3/4	3/8
30.0-38.0	A	4	—	—	A	4	3/8	3/8	A	4 1/2	1/2	1/2

O.D. ■ Range	8 — Groove, F = 6 1/4				9 — Groove, F = 7				10 — Groove, F = 7 3/4			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
5.0-8.9	D	3 3/4	3/8	3 3/8	D	3 3/4	3/8	4 1/8	D	4	3/8	4 1/8
9.0-20.9	D	4	3/8	3 3/8	D	4	3/8	3 3/8	D	4 1/2	3/8	4 1/8
21.0-24.9	A	4 1/2	3/8	3/8	A	5	1	1	A	5 1/2	1 1/8	1 1/8
25.0-38.0	A	5	3/8	3/8	A	5 1/2	3/8	3/8	A	6	3/8	3/8

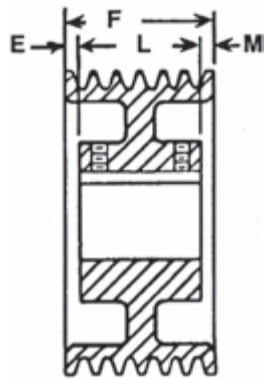
O.D. ■ Range	12 — Groove, F = 9 1/4				13 — Groove, F = 10				14 — Groove, F = 10 3/4			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
5.0-8.9	D	5 1/2	3/8	4 1/8	D	6	3/8	4 1/8	D	6 1/2	3/8	5 1/8
9.0-20.9	D	5 1/2	3/8	4 1/8	D	6	3/8	4 1/8	D	6 1/2	3/8	5 1/8
21.0-24.9	A	5 1/2	1 1/8	1 1/8	A	6	2	2	A	6 1/2	2 1/8	2 1/8
25.0-29.9	A	6	1 1/8	1 1/8	A	6 1/2	1 1/8	1 1/8	A	7	1 1/8	1 1/8
30.0-38.0	A	6 1/2	1 1/8	1 1/8	A	7	1 1/8	1 1/8	A	7 1/2	1 1/8	1 1/8

■ P.D. = O.D. + .35"

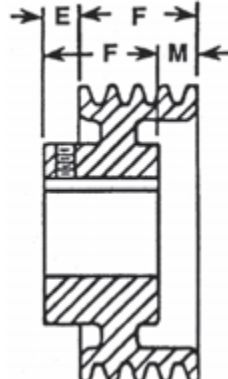
Made-To-Order Sheaves



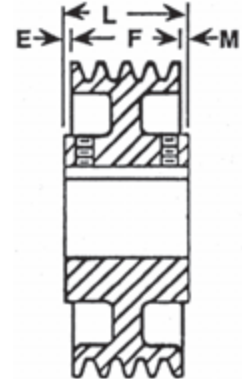
MTO — C



TYPE A



TYPE D



TYPE C

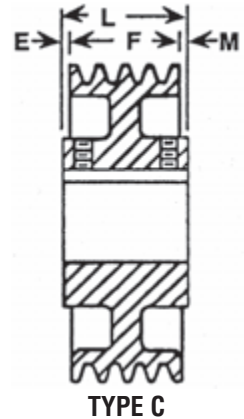
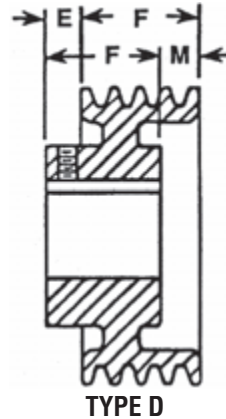
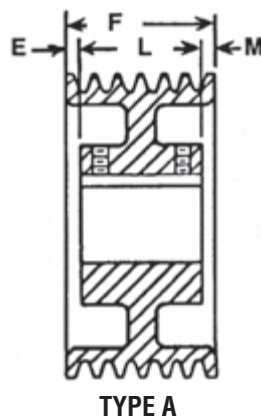
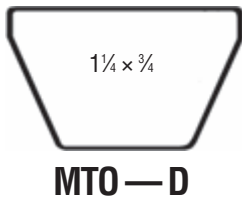
O.D. ■ Range	3 — Groove, F = 3%				4 — Groove, F = 4%				5 — Groove, F = 5%			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
9.0-15.9	D	2½	⅞	1¾	D	3	⅞	2¼	D	3½	⅞	2¾
16.0-23.9	D	3	⅞	1¾	D	3½	⅞	1¾	D	4	⅞	2¼
24.0-35.9	A	3½	⅞	1¾	A	3½	⅞	1¾	A	4	⅞	1¾
36.0-43.9	A	4	⅞	1¾	C	4½	⅞	1¾	A	5	⅞	1¾
44.0-55.9	A	4½	⅞	1¾	C	5	⅞	1¾	C	5½	⅞	1¾
56.0-64.0	A	5	⅞	1¾	C	5½	⅞	1¾	C	6	⅞	1¾

O.D. ■ Range	6 — Groove, F = 6%				7 — Groove, F = 7%				8 — Groove, F = 8%			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
9.0-15.9	D	3½	⅞	3¼	D	4	⅞	4¼	D	5	⅞	5¼
16.0-23.9	D	4	⅞	3¼	D	4½	⅞	3¾	D	5½	⅞	4¾
24.0-35.9	A	4½	⅞	1¾	A	5	1⅞	1¾	A	5½	1⅞	1¾
36.0-43.9	A	5	1⅞	1¾	A	5½	1⅞	1¾	A	6½	1⅞	1¾
44.0-55.9	A	5½	1⅞	1¾	A	6	1⅞	1¾	A	7	1⅞	1¾
56.0-64.0	A	6	1⅞	1¾	A	6½	1⅞	1¾	A	7½	1⅞	1¾

O.D. ■ Range	9 — Groove, F = 9%				10 — Groove, F = 10%				11 — Groove, F = 11%			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
9.0-15.9	D	5	⅞	5¼	D	6	⅞	5¼	D	7	⅞	5¼
16.0-23.9	D	5½	⅞	4¾	D	6½	⅞	4¾	D	7½	⅞	4¾
24.0-35.9	A	6	1⅞	1¾	A	7	1⅞	1¾	A	8	1⅞	1¾
36.0-43.9	A	6½	1⅞	1¾	A	7½	1⅞	1¾	A	8½	1⅞	1¾
44.0-55.9	A	7	1⅞	1¾	A	8	1⅞	1¾	A	9	1⅞	1¾
56.0-64.0	A	7½	1⅞	1¾	A	8½	1⅞	1¾	A	9½	1⅞	1¾

O.D. ■ Range	12 — Groove, F = 12%				13 — Groove, F = 13%				14 — Groove, F = 14%			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
9.0-15.9	D	7	⅞	6¼	D	8	⅞	6¼	D	8	⅞	7¼
16.0-23.9	D	7½	⅞	5¾	D	8	⅞	6¼	D	8	⅞	7¼
24.0-35.9	A	8	2⅞	2¾	A	8½	2⅞	2¾	A	8½	2⅞	2¾
36.0-43.9	A	8½	1⅞	1¾	A	9	2⅞	2¾	A	9	2⅞	2¾
44.0-55.9	A	9	1⅞	1¾	A	9½	1⅞	1¾	A	9½	1⅞	1¾
56.0-64.0	A	9½	1⅞	1¾	A	10	1⅞	1¾	A	10	2⅞	2¾

■ P.D. = O.D. + .40"



O.D. ■ Range	3 — Groove, F = 4 5/8				4 — Groove, F = 6 1/8				5 — Groove, F = 7 1/2			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
13.0-26.9	D	4	1	1 5/8	D	4	1	3 1/8	D	4 1/2	1	4
27.0-39.9	A	4	3/8	3/8	A	4 1/2	2 3/8	2 3/8	D	5 1/2	1	1
40.0-57.9	C	5	3/8	3/8	A	5 1/2	5/8	5/8	A	6 1/2	1/2	1/2
58.0-69.9	C	5 1/2	7/8	7/8	A	6	1/2	1/2	A	7	1/4	1/4
70.0-81.9	C	6	1 1/8	1 1/8	C	6 1/2	3/2	3/2	A	7 1/2	—	—
82.0-85.0	C	6 1/2	1 5/8	1 5/8	C	7	1 5/8	1 5/8	C	8	1/4	1/4

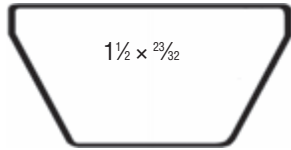
O.D. ■ Range	6 — Groove, F = 8 15/16				7 — Groove, F = 10 3/8				8 — Groove, F = 11 13/16			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
13.0-26.9	D	5	1	4 15/16	D	5 1/2	1	5 7/8	D	6	1	6 3/8
27.0-39.9	A	6	1 15/32	1 15/32	A	7	1 11/16	1 11/16	A	7 1/2	2 3/32	2 3/32
40.0-57.9	C	7	2 1/32	2 1/32	A	8	1 1/8	1 1/8	A	8 1/2	1 1/32	1 1/32
58.0-69.9	C	7 1/2	2 3/32	2 3/32	A	8 1/2	1 5/16	1 5/16	A	9	1 1/32	1 1/32
70.0-81.9	C	8	1 5/32	1 5/32	A	9	1 1/8	1 1/8	A	9 1/2	1 1/32	1 1/32
82.0-85.0	C	8 1/2	7/32	7/32	A	9 1/2	7/16	7/16	A	10	2 3/32	2 3/32

O.D. ■ Range	9 — Groove, F = 13 1/4				10 — Groove, F = 14 11/16				11 — Groove, F = 16 1/4			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
13.0-17.9	D	7	1	7 1/4	D	8	1	7 11/16	D	13	1	4 7/8
18.0-26.9	D	7	1	7 1/4	D	8	1	7 11/16	D	9	1	8 1/8
27.0-39.9	A	8	2 3/8	2 3/8	A	9	2 29/32	2 29/32	A	9 1/2	3 3/16	3 3/16
40.0-57.9	A	9	2 1/2	2 1/2	A	10	2 1/2	2 1/2	A	10 1/2	2 3/16	2 3/16
58.0-69.9	A	10	1 1/2	1 1/2	A	10 1/2	2 29/32	2 29/32	A	11 1/2	2 3/16	2 3/16
70.0-85.0	A	10 1/2	1 3/8	1 3/8	A	11 1/2	1 13/32	1 13/32	A	12	2 1/8	2 1/8

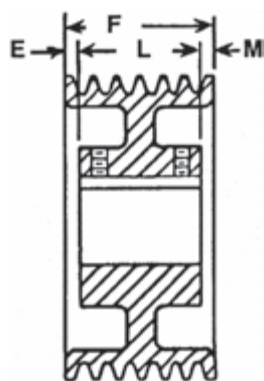
O.D. ■ Range	12 — Groove, F = 17 15/16				13 — Groove, F = 19				14 — Groove, F = 20 1/4			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
13.0-17.9	D	14	1	4 15/16	D	15 1/2	1	4 1/2	D	16 1/2	1	4 15/16
18.0-26.9	D	10	1	8 15/16	A	10 1/2	1	9 1/2	D	16 1/2	1	4 15/16
27.0-39.9	A	10 1/2	3 3/32	3 3/32	A	11	4	4	A	12	4 3/32	4 3/32
40.0-57.9	A	11 1/2	3 3/32	3 3/32	A	12 1/2	3 3/4	3 3/4	A	13	3 3/32	3 3/32
58.0-69.9	A	12	2 29/32	2 29/32	A	13	3	3	A	13 3/4	3 3/32	3 3/32
70.0-85.0	A	13	2 3/32	2 3/32	A	13 1/2	2 3/4	2 3/4	A	14 1/2	2 3/32	2 3/32

■ P.D. = O.D. + .60"

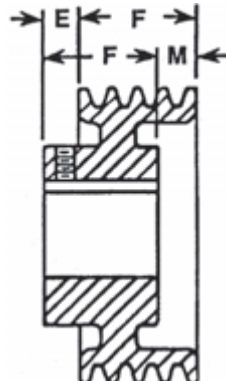
Made-To-Order Sheaves



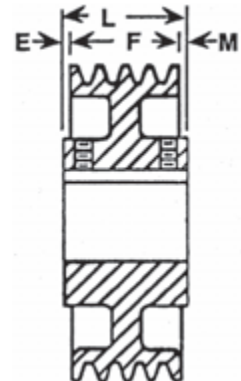
MTO—E



TYPE A



TYPE D



TYPE C

O.D. ■ Range	4 — Groove, F = 7½				6 — Groove, F = 11				8 — Groove, F = 14½			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
21.0-26.9	D	5	1½	3¾	D	7	1½	5½	D	9	1½	6¾
27.0-45.9	A	6	¾	¾	A	7½	1½	1½	A	9½	2½	2½
46.0-57.9	A	6½	½	½	A	8	1½	1½	A	10	2½	2½
58.0-73.9	A	7½	0	0	A	8½	1½	1½	A	10½	2	2
74.0-83.9	A	7½	0	0	A	9	1	1	A	11	1½	1½
84.0-85.0	C	8	¾	¾	A	9½	¾	¾	A	11½	1½	1½

O.D. ■ Range	10 — Groove, F = 18				12 — Groove, F = 21½				14 — Groove, F = 25			
	Type	L	E	M	Type	L	E	M	Type	L	E	M
21.0-26.9	D	11	1½	8¾	D	17	1½	5½	D	19	1½	7¾
27.0-45.9	A	11	3½	3½	A	13	4½	4½	A	20½	2½	2½
46.0-57.9	A	11½	3¾	3¾	A	13½	4	4	A	15	5	5
58.0-73.9	A	12	3	3	A	14	3¾	3¾	A	15½	4¾	4¾
74.0-83.9	A	12½	2¾	2¾	A	14½	3¾	3¾	A	16½	4¾	4¾
84.0-85.0	A	13	2½	2½	A	15	3¾	3¾	A	16½	4¾	4¾

■ P.D. = O.D. + .80"



**AK / BK
Bored-To-Size**



**AK / BK
MST® (*Martin* Split Taper) Bushed**



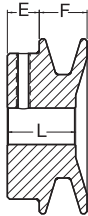
**2AK / 2BK
Bored-To-Size**



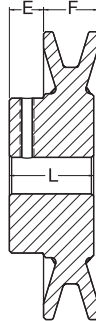
**2AK / 2BK
MST® (*Martin* Split Taper) Bushed**

- Fractional Horsepower Sheaves for light duty applications.
- Single and double groove designs.
- Both Bored-To-Size and MST Bushed.
- Precision machined grooves.
- Statically balanced.

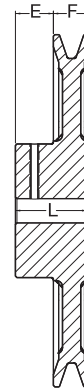
AK Single Groove FHP Sheaves Bored-To-Size



TYPE A
Solid



TYPE B
Web



TYPE C
Arm / Spoke

FHP Sheave — AK

Part Number	Diameter			Type	Stock Finished Bores Includes Keyway and Setscrew	F	E	L Thru Bore	Weight Lbs. (Approx.)
	OD	Datum A(4L) Belts	Pitch 3L Belts						
AK15	1.55	1.30	—	A	1/2 - 3/8	21/32	7/16	1 3/32	0.3
AK17	1.75	1.50	1.16	A	1/2 - 3/8	21/32	7/16	15/16	0.3
AK19	1.95	1.70	1.36	A	1/2 - 3/8 - 3/4 - 7/8	21/32	7/16	15/16	0.5
AK20	2.00	1.80	1.46	A	1/2 - 3/8 - 3/4 - —	21/32	7/16	15/16	0.5
AK21	2.10	1.90	1.56	A	1/2 - 3/8 - 3/4 - —	21/32	7/16	15/16	0.5
AK22	2.20	2.00	1.66	A	1/2 - 3/8 - 3/4 - 7/8	21/32	7/16	15/16	0.6
AK23	2.30	2.10	1.76	A	1/2 - 3/8 - 3/4 - —	21/32	7/16	15/16	0.6
AK24	2.40	2.20	1.86	A	1/2 - 3/8 - 3/4 - 7/8 - — 1	21/32	7/16	15/16	0.6
AK25	2.50	2.30	1.96	B	1/2 - 3/8 - 3/4 - 7/8 - —	21/32	7/16	15/16	0.7
AK26	2.60	2.40	2.06	B	1/2 - 3/8 - 3/4 - —	21/32	7/16	15/16	0.7
AK27	2.70	2.50	2.16	B	1/2 - 3/8 - 3/4 - — - 1	21/32	7/16	15/16	0.8
AK28	2.80	2.60	2.26	B	1/2 - 3/8 - 3/4 - 7/8 - —	21/32	7/16	15/16	0.8
AK30	3.05	2.80	2.46	B	1/2 - 3/8 - 3/4 - 7/8 - — 1	21/32	7/16	15/16	0.9
AK32	3.25	3.00	2.66	B	1/2 - 3/8 - 3/4 - 7/8 - — 1	21/32	7/16	15/16	1.0
AK34	3.45	3.20	2.86	B	1/2 - 3/8 - 3/4 - 7/8 - — 1	21/32	7/16	15/16	1.1
AK35	3.55	3.30	2.96	B	1/2 - 3/8 - 3/4 - 7/8 - — 1	21/32	7/16	15/16	1.2
AK39	3.75	3.50	3.16	B	1/2 - 3/8 - 3/4 - 7/8 - 15/16 - 1	3/4	15/32	1 3/32	1.6
AK41	3.95	3.70	3.36	B	1/2 - 3/8 - 3/4 - 7/8 - 15/16 - 1 - 1 1/8	3/4	15/32	1 3/32	1.6
AK44	4.25	4.00	3.66	B	1/2 - 3/8 - 3/4 - 7/8 - 15/16 - 1 - 1 1/8	3/4	15/32	1 3/32	1.9
AK46	4.45	4.20	3.86	B	1/2 - 3/8 - 3/4 - 7/8 - 15/16 - 1 - 1 1/8	3/4	15/32	1 3/32	2.0
AK49	4.75	4.50	4.16	B	1/2 - 3/8 - 3/4 - 7/8 - 15/16 - 1 - 1 1/8	3/4	15/32	1 3/32	2.1
AK51	4.95	4.70	4.36	B	1/2 - 3/8 - 3/4 - 7/8 - — 1 - 1 1/8	3/4	15/32	1 3/32	2.2
AK54	5.25	5.00	4.66	B	1/2 - 3/8 - 3/4 - 7/8 - 15/16 - 1 - 1 1/8 - 1 3/16	3/4	15/32	1 3/32	2.4
AK56	5.45	5.20	4.86	B	1/2 - 3/8 - 3/4 - 7/8 - 15/16 - 1 - 1 1/8 - 1 3/16	3/4	15/32	1 3/32	2.5
AK59	5.75	5.50	5.16	C	1/2 - 3/8 - 3/4 - 7/8 - 15/16 - 1 - 1 1/8 - 1 3/16	3/4	15/32	1 3/32	2.7
AK61	5.95	5.70	5.36	C	1/2 - 3/8 - 3/4 - 7/8 - 15/16 - 1 - 1 1/8 - 1 3/16	3/4	15/32	1 3/32	2.8
AK64	6.25	6.00	5.66	C	1/2 - 3/8 - 3/4 - 7/8 - 15/16 - 1 - 1 1/8 - 1 3/16	3/4	15/32	1 3/32	3.0
AK66	6.45	6.20	5.86	C	— - 3/8 - 3/4 - — - 1 - 1 1/8 - —	3/4	15/32	1 3/32	3.0
AK69	6.75	6.50	6.16	C	— - 3/4 - — - — - 1 - 1 1/8 - —	3/4	23/32	1 15/32	3.7
AK71	6.95	6.70	6.36	C	1/2 - 3/8 - 3/4 - — - — - 1 - 1 1/8 - — - — - 1 1/16	3/4	23/32	1 15/32	4.3
AK74	7.25	7.00	6.66	C	1/2 - 3/8 - 3/4 - — - 15/16 - 1 - 1 1/8 - 1 3/16 - 1 1/4 - — - 1 1/16	3/4	23/32 *	1 15/32	4.5
AK79	7.75	7.50	7.16	C	— - 3/4 - — - — - 1 - 1 1/8 - — - — - 1 1/16	3/4	23/32	1 15/32	4.7
AK81	7.95	7.70	7.36	C	— - 3/8 - 3/4 - — - — - 1 - — - 1 3/16 - — - —	3/4	23/32	1 15/32	4.7
AK84	8.25	8.00	7.66	C	1/2 - 3/8 - 3/4 - — - 15/16 - 1 - 1 - — - 1 1/16 - — - —	3/4	23/32 *	1 15/32	5.0
AK89	8.75	8.50	8.16	C	— - — - 3/4 - — - — - 1 - 1 1/8 - — - — - 1 1/16	3/4	23/32	1 15/32	5.2
AK91	8.95	8.70	8.36	C	— - — - 3/4 - — - — - 1 - — - — - — - —	3/4	23/32	1 15/32	5.2
AK94	9.25	9.00	8.66	C	1/2 - 3/8 - 3/4 - — - 15/16 - 1 - — - 1 3/16 - 1 1/4 - — - 1 1/16	3/4	23/32 *	1 15/32	5.5
AK99	9.75	9.50	9.16	C	— - 3/4 - — - — - 1 - — - — - — - — - 1 1/16	3/4	23/32 *	1 15/32	5.7
AK104	10.25	10.00	9.66	C	3/8 - 3/4 - — - — - 1 - — - 1 3/16 - 1 1/4 - 1 3/8 - 1 1/16	3/4	23/32	1 15/32	5.9
AK109	10.75	10.50	10.16	C	— - 3/4 - — - — - 1 - — - — - — - 1 3/8 - 1 1/16	3/4	23/32	1 15/32	6.1
AK114	11.25	11.00	10.66	C	— - 3/4 - — - — - 1 - — - 1 3/16 - — - — - 1 1/16	3/4	23/32 *	1 15/32	6.7
AK124	12.25	12.00	11.66	C	3/8 - 3/4 - — - — - 1 - — - 1 3/16 - 1 1/4 - — - 1 1/16	3/4	23/32 *	1 15/32	7.3
AK134	13.25	13.00	12.66	C	— - 3/4 - — - — - 1 - — - 1 3/16 - — - 1 3/8 - 1 1/16	3/4	23/32	1 15/32	8.2
AK144	14.25	14.00	13.66	C	— - 3/4 - — - — - 1 - — - 1 3/16 - — - — - 1 1/16	3/4	23/32	1 15/32	8.7
AK154	15.25	15.00	14.66	C	— - 3/4 - — - — - 1 - — - — - — - — - 1 1/16	3/4	23/32	1 15/32	9.7
AK184	18.25	18.00	17.66	C	— - 3/4 - — - — - 1 - — - 1 3/16 - — - — - 1 1/16	3/4	23/32	1 15/32	11.8

E = 25/32 FOR BORE SIZES <= 1
1/2" Bore - setscrew only - no keyway

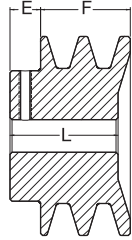


Two Groove FHP Sheaves Bored-To-Size

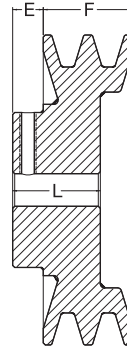
2AK

Keyway Dimensions Inch Bore

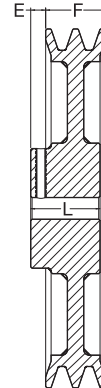
Diameter Of Shaft	Keyway Width × Depth
1/2	NONE
5/8 - 7/8	3/16 × 3/32
15/16 - 1-1/4	1/4 × 1/8
1-5/16 - 1-3/8	5/16 × 5/32
1-7/16 - 1-3/4	3/8 × 3/16



TYPE A
Solid



TYPE B
Web



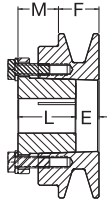
TYPE C
Arm / Spoke

FHP Sheave — 2AK

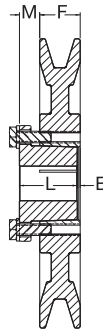
Part Number	Diameter			Type	Stock Finished Bores Includes Keyway and Setscrew	F	E	L Thru Bore	Weight Lbs. (Approx.)
	OD	Datum A(4L) Belts	Pitch 3L Belts						
2AK20	2.00	1.80	1.46	A	1/2 - 5/8 - 3/4	1 3/8	1 5/32	1 21/32	0.8
2AK21	2.15	1.90	1.56	A	1/2 - 5/8 - 3/4	1 3/8	1 5/32	1 21/32	0.9
2AK22	2.25	2.00	1.66	A	1/2 - 5/8 - 3/4 - 7/8 - - - 1	1 3/8	1 5/32	1 21/32	1.1
2AK23	2.35	2.10	1.76	A	- 5/8 - 3/4 - 7/8 - - - 1	1 3/8	1 5/32	1 21/32	1.2
2AK25	2.55	2.30	1.96	A	- 5/8 - 3/4 - 7/8 - - - 1	1 3/8	1 5/32	1 21/32	1.4
2AK26	2.65	2.40	2.06	A	- 5/8 - 3/4 - 7/8 - - -	1 3/8	1 5/32	1 21/32	1.5
2AK27	2.75	2.50	2.16	A	- 5/8 - 3/4 - 7/8 - - - 1	1 3/8	1 5/32	1 21/32	1.6
2AK28	2.85	2.60	2.26	A	- 5/8 - 3/4 - 7/8 - - - 1	1 3/8	1 5/32	1 21/32	1.7
2AK30	3.05	2.80	2.46	A	1/2 - 5/8 - 3/4 - 7/8 - - - 1 - 1 1/8	1 3/8	1 5/32	1 21/32	2.0
2AK32	3.25	3.00	2.66	A	5/8 - 3/4 - 7/8 - - - 1 - 1 1/8	1 3/8	1 5/32	1 21/32	2.2
2AK34	3.45	3.20	2.86	A	5/8 - 3/4 - 7/8 - - - 1 - 1 1/8	1 3/8	1 5/32	1 21/32	2.5
2AK39	3.75	3.50	3.16	B	5/8 - 3/4 - 7/8 - - - 1 - 1 1/8	1 3/8	1 5/32	1 11/32	2.6
2AK41	3.95	3.70	3.36	B	5/8 - 3/4 - 7/8 - - - 1 - 1 1/8	1 3/8	1 5/32	1 11/32	2.9
2AK44	4.25	4.00	3.66	B	5/8 - 3/4 - 7/8 - - - 1 - 1 1/8	1 3/8	1 5/32	1 11/32	3.3
2AK46	4.45	4.20	3.86	B	5/8 - - - 7/8 - - - 1 - 1 1/8	1 3/8	1 5/32	1 11/32	3.6
2AK49	4.75	4.50	4.16	B	- 3/4 - 7/8 - - - 1 - 1 1/8 - - - 1 3/8	1 3/8	1 5/32	1 11/32	3.8
2AK51	4.95	4.70	4.36	B	- 3/4 - 7/8 - - - 1 - 1 1/8 - - - 1 3/8	1 3/8	1 5/32	1 11/32	4.1
2AK54	5.25	5.00	4.66	B	5/8 - 3/4 - 7/8 - - - 1 - 1 1/8 - - - 1 3/8	1 3/8	1 5/32	1 11/32	4.3
2AK56	5.45	5.20	4.86	B	5/8 - 3/4 - - - - - 1 - 1 1/8 - - - 1 3/8	1 3/8	1 5/32	1 11/32	4.5
2AK59	5.75	5.50	5.16	B	- - - - - - - 1 - 1 1/8 - - - 1 3/8	1 3/8	1 5/32	1 11/32	4.9
2AK61	5.95	5.70	5.36	B	3/4 - 7/8 - - - 1 - 1 1/8 - - - 1 3/8	1 3/8	1 5/32	1 11/32	5.2
2AK64	6.25	6.00	5.66	C	3/4 - - - - - 1 - 1 1/8 - 1 3/16 - 1 3/8 - 1 7/16	1 3/8	1 11/32	1 19/32	5.6
2AK74	7.25	7.00	6.66	C	3/4 - - - - - 1 - 1 1/8 - 1 3/16 - 1 3/8 - 1 7/16	1 3/8	1 11/32	1 19/32	6.5
2AK84	8.25	8.00	7.66	C	3/4 - - - 15/16 - 1 - 1 1/8 - - - 1 3/8 - 1 7/16	1 3/8	1 11/32	1 19/32	7.2
2AK94	9.25	9.00	8.66	C	3/4 - 7/8 - - - 1 - 1 1/8 - 1 3/16 - 1 3/8 - 1 7/16	1 3/8	1 11/32	1 19/32	8.0
2AK104	10.25	10.00	9.66	C	3/4 - - - 15/16 - 1 - - - 1 3/16 - - - 1 7/16	1 3/8	1 11/32	1 19/32	9.0
2AK114	11.25	11.00	10.66	C	1 - - - - 1 3/16 - 1 3/8 - 1 7/16	1 3/8	1 11/32	1 19/32	9.7
2AK124	12.25	12.00	11.66	C	1 - - - - 1 3/16 - - - 1 7/16	1 3/8	1 11/32	1 19/32	10.5
2AK134	13.25	13.00	12.66	C	- - - - 1 3/16 - - - 1 7/16	1 3/8	1 11/32	1 19/32	12.7
2AK144	14.25	14.00	13.66	C	1 - - - - - - - 1 7/16	1 3/8	1 11/32	1 19/32	13.1
2AK154	15.25	15.00	14.66	C	1 3/16 - - - 1 7/16	1 3/8	1 11/32	1 19/32	14.3
2AK184	18.25	18.00	17.66	C	1 3/16 - - - 1 7/16	1 3/8	1 11/32	1 19/32	17.1

1/2" Bore - setscrew only - no keyway

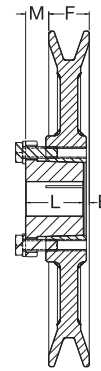
AK-H Single Groove FHP Sheaves MST® Bushed



TYPE A
Solid



TYPE B
Web



TYPE C
Arm / Spoke

FHP Sheave — AK-H

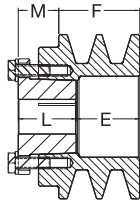
Part Number	Diameter			Type	Bush	Bush Max. Bore	F	E	L Thru Bore	M	Weight Less Bush
	OD	Datum A(4L) Belts	Pitch 3L Belts								
AK30-H	3.05	2.80	2.46	A	H	1-1/2	3/4	3/8	1-1/4	7/8	1.3
AK32-H	3.25	3.00	2.66	A	H	1-1/2	3/4	3/8	1-1/4	7/8	1.4
AK34-H	3.45	3.20	2.86	A	H	1-1/2	3/4	1/16	1-1/4	9/16	1.2
AK39-H	3.75	3.50	3.16	A	H	1-1/2	3/4	1/16	1-1/4	9/16	1.4
AK41-H	3.95	3.70	3.36	A	H	1-1/2	3/4	1/16	1-1/4	9/16	1.6
AK44-H	4.25	4.00	3.66	A	H	1-1/2	3/4	1/16	1-1/4	9/16	2.0
AK46-H	4.45	4.20	3.86	A	H	1-1/2	3/4	1/16	1-1/4	9/16	2.2
AK49-H	4.75	4.50	4.16	B	H	1-1/2	3/4	1/16	1-1/4	9/16	2.1
AK51-H	4.95	4.70	4.36	B	H	1-1/2	3/4	1/16	1-1/4	9/16	2.3
AK54-H	5.25	5.00	4.66	B	H	1-1/2	3/4	1/16	1-1/4	9/16	2.3
AK56-H	5.45	5.20	4.86	B	H	1-1/2	3/4	1/16	1-1/4	9/16	2.4
AK59-H	5.75	5.50	5.16	B	H	1-1/2	3/4	1/16	1-1/4	9/16	2.5
AK61-H	5.95	5.70	5.36	C	H	1-1/2	3/4	1/16	1-1/4	9/16	2.6
AK64-H	6.25	6.00	5.66	C	H	1-1/2	3/4	1/16	1-1/4	9/16	2.8
AK66-H	6.45	6.20	5.86	C	H	1-1/2	3/4	1/16	1-1/4	9/16	2.8
AK69-H	6.75	6.50	6.16	C	H	1-1/2	3/4	1/16	1-1/4	9/16	3.0
AK71-H	6.95	6.70	6.36	C	H	1-1/2	3/4	1/16	1-1/4	9/16	3.0
AK74-H	7.25	7.00	6.66	C	H	1-1/2	3/4	1/16	1-1/4	9/16	3.3
AK79-H	7.75	7.50	7.16	C	H	1-1/2	3/4	1/16	1-1/4	9/16	3.5
AK84-H	8.25	8.00	7.66	C	H	1-1/2	3/4	1/16	1-1/4	9/16	3.8
AK89-H	8.75	8.50	8.16	C	H	1-1/2	3/4	1/16	1-1/4	9/16	4.0
AK94-H	9.25	9.00	8.66	C	H	1-1/2	3/4	1/16	1-1/4	9/16	4.4
AK99-H	9.75	9.50	9.16	C	H	1-1/2	3/4	1/16	1-1/4	9/16	4.7
AK104-H	10.25	10.00	9.66	C	H	1-1/2	3/4	1/16	1-1/4	9/16	5.0
AK109-H	10.75	10.50	10.16	C	H	1-1/2	3/4	1/16	1-1/4	9/16	5.2
AK114-H	11.25	11.00	10.66	C	H	1-1/2	3/4	1/16	1-1/4	9/16	5.5
AK124-H	12.25	12.00	11.66	C	H	1-1/2	3/4	1/16	1-1/4	9/16	6.0
AK134-H	13.25	13.00	12.66	C	H	1-1/2	3/4	1/16	1-1/4	9/16	7.3
AK144-H	14.25	14.00	13.66	C	H	1-1/2	3/4	1/16	1-1/4	9/16	7.9
AK154-H	15.25	15.00	14.66	C	H	1-1/2	3/4	1/16	1-1/4	9/16	8.9
AK184-H	18.25	18.00	17.66	C	H	1-1/2	3/4	1/16	1-1/4	9/16	11.4

Dimensions in inches, weight in pounds. Weights do not include bushings. See page D-58 for additional bushing information.

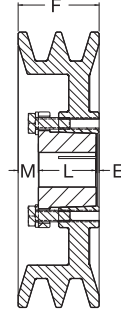


Two Groove FHP Sheaves MST® Bushed

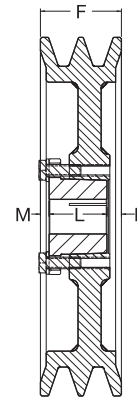
2AK-H



TYPE A
Solid



TYPE B
Web



TYPE C
Arm / Spoke

FHP Sheave —2AK-H

Part Number	Diameter			Type	Bush	Bush Max. Bore	F	E	L Thru Bore	M	Weight Less Bush
	OD	Datum A(4L) Belts	Pitch 3L Belts								
2AK30-H	3.05	2.80	2.46	A	H	1-1/2	1-3/8	1	1-1/4	7/8	1.7
2AK32-H	3.25	3.00	2.66	A	H	1-1/2	1-3/8	1	1-1/4	7/8	1.9
2AK34-H	3.45	3.20	2.86	A	H	1-1/2	1-3/8	9/16	1-1/4	7/16	1.7
2AK39-H	3.75	3.50	3.16	A	H	1-1/2	1-3/8	9/16	1-1/4	7/16	2.0
2AK41-H	3.95	3.70	3.36	B	H	1-1/2	1-3/8	1/16	1-1/4	1/16	2.2
2AK44-H	4.25	4.00	3.66	B	H	1-1/2	1-3/8	1/16	1-1/4	1/16	2.7
2AK46-H	4.45	4.20	3.86	B	H	1-1/2	1-3/8	1/16	1-1/4	1/16	3.0
2AK49-H	4.75	4.50	4.16	B	H	1-1/2	1-3/8	1/16	1-1/4	1/16	3.1
2AK51-H	4.95	4.70	4.36	B	H	1-1/2	1-3/8	1/16	1-1/4	1/16	3.5
2AK54-H	5.25	5.00	4.66	B	H	1-1/2	1-3/8	1/16	1-1/4	1/16	3.4
2AK56-H	5.45	5.20	4.86	B	H	1-1/2	1-3/8	1/16	1-1/4	1/16	3.6
2AK59-H	5.75	5.50	5.16	C	H	1-1/2	1-3/8	1/16	1-1/4	1/16	3.4
2AK61-H	5.95	5.70	5.36	C	H	1-1/2	1-3/8	1/16	1-1/4	1/16	3.7
2AK64-H	6.25	6.00	5.66	C	H	1-1/2	1-3/8	1/16	1-1/4	1/16	3.9
2AK74-H	7.25	7.00	6.66	C	H	1-1/2	1-3/8	1/16	1-1/4	1/16	5.0
2AK84-H	8.25	8.00	7.66	C	H	1-1/2	1-3/8	1/16	1-1/4	1/16	5.6
2AK94-H	9.25	9.00	8.66	C	H	1-1/2	1-3/8	1/16	1-1/4	1/16	6.3
2AK104-H	10.25	10.00	9.66	C	H	1-1/2	1-3/8	1/16	1-1/4	1/16	7.6
2AK114-H	11.25	11.00	10.66	C	H	1-1/2	1-3/8	1/16	1-1/4	1/16	8.4
2AK124-H	12.25	12.00	11.66	C	H	1-1/2	1-3/8	1/16	1-1/4	1/16	9.2
2AK134-H	13.25	13.00	12.66	C	H	1-1/2	1-3/8	1/16	1-1/4	1/16	11.5
2AK144-H	14.25	14.00	13.66	C	H	1-1/2	1-3/8	1/16	1-1/4	1/16	11.8
2AK154-H	15.25	15.00	14.66	C	H	1-1/2	1-3/8	1/16	1-1/4	1/16	13.3
2AK184-H	18.25	18.00	17.66	C	H	1-1/2	1-3/8	1/16	1-1/4	1/16	16.9

Dimensions in inches, weight in pounds. Weights do not include bushings. See page D-58 for additional bushing information.

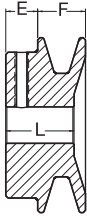
MST "H" Bushings – Inch Bore

Diameter Of Shaft	Keyway Width x Depth	Diameter Of Shaft	Keyway Width x Depth
3/8	NONE	1	1/4 x 1/8
7/16	NONE	1-1/16	1/4 x 1/8
1/2	1/8 x 1/16	1-1/8	1/4 x 1/8
9/16	1/8 x 1/16	1-3/16	1/4 x 1/8
19/32	1/8 x 1/16	1-1/4	1/4 x 1/8
5/8	3/16 x 3/32	1-5/16	5/16 x 1/16
21/32	3/16 x 3/32	1-3/8	5/16 x 1/16
11/16	3/16 x 3/32	1-3/8	3/8 x 1/16
3/4	3/16 x 3/32	1-7/16	3/8 x 1/16
25/32	3/16 x 3/32	1-1/2	3/8 x 1/32
13/16	3/16 x 3/32		
7/8	3/16 x 3/32		
15/16	1/4 x 1/8		
31/32	1/4 x 1/8		

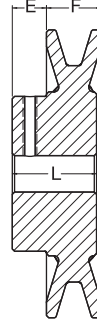
MST "H" Bushings – Millimeter Bore

Diameter Of Shaft	Keyway Width x Depth	Diameter Of Shaft	Keyway Width x Depth
10	NONE	22	6 x 2.8
11	NONE	24	8 x 3.3
12	NONE	25	8 x 3.3
14	5 x 2.3	28	8 x 3.3
16	5 x 2.3	30	8 x 3.3
18	6 x 2.8	32	10 x 1.3
19	6 x 2.8	35	10 x 0.3
20	6 x 2.8	36	10 x 1.3
		38	10 x 0.3

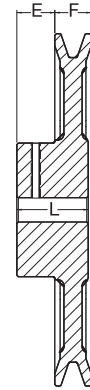
BK Single Groove FHP Sheaves Bored-To-Size



TYPE A
Solid



TYPE B
Web



TYPE C
Arm / Spoke

FHP Sheave — BK

Part Number	Diameter			Type	Stock Finished Bores Includes Keyway and Setscrew	F	E	L Thru Bore	Weight Lbs. (Approx.)
	OD	Datum A(4L) Belts	Datum B(5L) Belts						
BK23	2.30	-	2.10	A	1/2 - 5/8 - - - - 1	13/16	13/32	1 1/16	0.4
BK24	2.40	1.80	2.20	A	1/2 - 5/8 - 3/4 - 7/8 - -	13/16	13/32	1 1/16	0.4
BK25	2.50	1.90	2.30	A	1/2 - 5/8 - 3/4 - 7/8 - -	13/16	13/32	1 1/16	0.5
BK26	2.60	2.00	2.40	A	1/2 - 5/8 - 3/4 - 7/8 - -	13/16	13/32	1 1/16	0.6
BK27	2.70	2.10	2.50	B	1/2 - 5/8 - 3/4 - 7/8 - - 1 1/8	13/16	13/32	1 1/16	0.6
BK28	2.95	2.20	2.60	B	1/2 - 5/8 - 3/4 - 7/8 - - 1 - 1/8	13/16	13/32	1 1/16	0.8
BK30	3.15	2.40	2.80	B	1/2 - 5/8 - 3/4 - 7/8 - - 1 - 1/8	13/16	13/32	1 1/16	0.8
BK32	3.35	2.60	3.00	B	1/2 - 5/8 - 3/4 - 7/8 - - 1 -	13/16	13/32	1 1/16	0.8
BK34	3.55	2.80	3.20	B	1/2 - 5/8 - 3/4 - 7/8 - - 1 - 1/8	7/8	13/32	1 5/32	1.3
BK36	3.75	3.00	3.40	B	1/2 - 5/8 - 3/4 - 7/8 - - 1 - 1/8	7/8	13/32	1 5/32	1.5
BK40	3.95	3.20	3.60	B	1/2 - 5/8 - 3/4 - 7/8 - - 1 - 1/8	7/8	13/32	1 5/32	1.5
BK45	4.25	3.50	3.90	B	1/2 - 5/8 - 3/4 - 7/8 - - 1 - 1/8	7/8	13/32	1 5/32	1.8
BK46	4.35	3.60	4.00	B	- - - 7/8 - - -	7/8	13/32	1 5/32	1.8
BK47	4.45	3.70	4.10	B	1/2 - 5/8 - 3/4 - 7/8 - - 1 - 1/8	7/8	13/32	1 5/32	1.8
BK48	4.55	3.80	4.20	B	1/2 - 5/8 - 3/4 - 7/8 - - - 1 1/8	7/8	13/32	1 5/32	2.0
BK50	4.75	4.00	4.40	B	1/2 - 5/8 - 3/4 - 7/8 - 15/16 - 1 - 1 1/8	7/8	13/32	1 5/32	2.0
BK52	4.95	4.20	4.60	B	1/2 - 5/8 - 3/4 - 7/8 - - 1 - 1 1/8	7/8	13/32	1 5/32	2.0
BK55	5.25	4.50	4.90	B	1/2 - 5/8 - 3/4 - 7/8 - - 1 - 1 1/8 - 1 3/16	7/8	13/32	1 5/32	2.2
BK57	5.45	4.70	5.10	B	- 5/8 - 3/4 - 7/8 - 15/16 - 1 - 1 1/8 -	7/8	13/32	1 5/32	2.3
BK60	5.75	5.00	5.40	B	1/2 - 5/8 - 3/4 - 7/8 - - 1 - 1 1/8 - 1 3/16	7/8	13/32	1 5/32	2.3
BK62	5.95	5.20	5.60	B	1/2 - 5/8 - 3/4 - 7/8 - 15/16 - 1 - 1 1/8 - 1 3/16	7/8	13/32	1 5/32	2.4
BK65	6.25	5.50	5.90	B	5/8 - 3/4 - 7/8 - - 1 - 1 1/8 -	7/8	13/32	1 5/32	2.7
BK67	6.45	5.70	6.10	C	5/8 - 3/4 - 7/8 - - 1 - 1 1/8 -	7/8	13/32	1 5/32	2.8
BK70	6.75	6.00	6.40	C	5/8 - 3/4 - 7/8 - 15/16 - 1 - 1 1/8 - 1 3/16 - - - 1 1/16	7/8	2 1/32 *	1 15/32	3.3
BK72	6.95	6.20	6.60	C	- 3/4 - - - - 1 - 1 1/8 - - - 1 3/8 - 1 1/16	7/8	2 1/32	1 15/32	3.9
BK75	7.25	6.50	6.90	C	- 3/4 - - - - 1 - 1 1/8 - - - - 1 1/16	7/8	2 1/32	1 15/32	3.9
BK77	7.45	6.70	7.10	C	- 3/4 - - - - 1 - 1 1/8 - - - - 1 3/8 - 1 1/16	7/8	2 1/32	1 15/32	4.1
BK80	7.75	7.00	7.40	C	5/8 - 3/4 - 7/8 - - 1 - 1 1/8 - 1 3/16 - 1 1/4 - 1 3/8 - 1 1/16	7/8	2 1/32	1 15/32	4.4
BK85	8.25	7.50	7.90	C	3/4 - - - - 1 - 1 1/8 - 1 3/16 - - - 1 3/8 - 1 1/16	7/8	2 1/32	1 15/32	5.0
BK90	8.75	8.00	8.40	C	3/4 - 7/8 - 15/16 - 1 - 1 1/8 - 1 3/16 - - - 1 3/8 - 1 1/16	7/8	2 1/32	1 15/32	5.0
BK95	9.25	8.50	8.90	C	3/4 - - - - 1 - 1 1/8 - - - - 1 3/8 - 1 1/16	7/8	2 1/32	1 15/32	5.4
BK100	9.75	9.00	9.40	C	3/4 - 7/8 - - 1 - 1 1/8 - 1 3/16 - 1 1/4 - 1 3/8 - 1 1/16	7/8	2 1/32	1 15/32	5.6
BK105	10.25	9.50	9.90	C	- - - - 1 - - - - - 1 3/8 - 1 1/16	7/8	2 1/32	1 15/32	5.8
BK110	10.75	10.00	10.40	C	3/4 - - - - 1 - 1 1/8 - 1 3/16 - - - 1 3/8 - 1 1/16	7/8	2 1/32	1 15/32	6.4
BK115	11.25	10.50	10.90	C	- - - - 1 - - - - - 1 3/8 - 1 1/16	7/8	2 1/32	1 15/32	6.9
BK120	11.75	11.00	11.40	C	3/4 - - - - 1 - - - 1 3/16 - - - 1 3/8 - 1 1/16	7/8	2 1/32	1 15/32	7.4
BK130	12.75	12.00	12.40	C	3/4 - 7/8 - - 1 - 1 1/8 - 1 3/16 - - - 1 1/16	7/8	2 1/32	1 15/32	8.4
BK140	13.75	13.00	13.40	C	3/4 - - - - 1 - - - 1 3/16 - - - 1 1/16	7/8	2 1/32	1 15/32	9.4
BK160	15.75	15.00	15.40	C	- 1 - 1 1/8 - 1 3/16 - 1 1/4 - 1 1/16	7/8	2 1/32	1 15/32	11.4
BK190	18.75	18.00	18.40	C	1 - - - 1 3/16 - 1 1/4 - 1 1/16	7/8	2 1/32	1 15/32	13.4

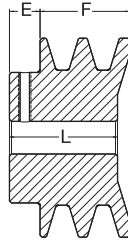
E = 13/32 FOR BORE SIZES <= 1
1/2" Bore - setscrew only - no keyway



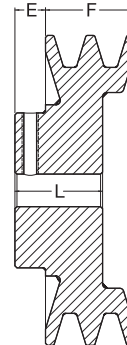
Two Groove FHP Sheaves Bored-To-Size **2BK**

Keyway Dimensions Inch Bore

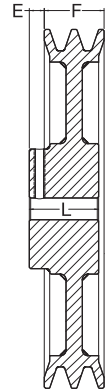
Diameter Of Shaft	Keyway Width x Depth
1/2	NONE
5/8 - 7/8	3/16 x 3/32
15/16 - 1-1/4	1/4 x 1/8
1-5/16 - 1-3/8	5/16 x 5/32
1-7/16 - 1-3/4	3/8 x 3/16



TYPE A
Solid



TYPE B
Web



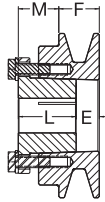
TYPE C
Arm / Spoke

FHP Sheave — 2BK

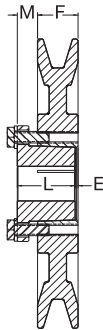
Part Number	Diameter			Type	Stock Finished Bores Includes Keyway and Setscrew	F	E	L Thru Bore	Weight Lbs. (Approx.)
	OD	Datum A(4L) Belts	Datum B(5L) Belts						
2BK25	2.50	1.90	2.30	A	1/2 - 5/8 - 3/4 - 7/8	1 3/4	1 5/32	1 31/32	1.3
2BK26	2.60	2.00	2.40	A	- 5/8 - - - 7/8 - - - 1 1/8	1 3/4	1 5/32	1 31/32	1.5
2BK27	2.70	2.10	2.50	A	1/2 - 5/8 - 3/4 - 7/8 - 1 - -	1 3/4	1 5/32	1 31/32	1.6
2BK28	2.95	2.20	2.60	A	1/2 - 5/8 - 3/4 - 7/8 - 1 - 1 1/8	1 3/4	1 5/32	1 31/32	1.9
2BK30	3.15	2.40	2.80	A	1/2 - 5/8 - 3/4 - 7/8 - 1 - 1 1/8	1 3/4	1 5/32	1 31/32	2.3
2BK32	3.35	2.60	3.00	A	5/8 - - - 7/8 - 1 - 1 1/8	1 3/4	1 5/32	1 31/32	2.6
2BK34	3.55	2.80	3.20	A	5/8 - 3/4 - 7/8 - 1 - 1 1/8	1 3/4	1 5/32	1 31/32	2.8
2BK36	3.75	3.00	3.40	A	- 3/4 - 7/8 - 1 - 1 1/8 - - - 1 3/8	1 3/4	1 5/32	1 31/32	3.3
2BK40	3.95	3.20	3.60	B	5/8 - 3/4 - 7/8 - 1 - 1 1/8 - - -	1 3/4	1 5/32	1 15/32	3.3
2BK45	4.25	3.50	3.90	B	- - - - 1 - 1 1/8 - - - 1 3/8	1 3/4	1 5/32	1 15/32	3.3
2BK47	4.45	3.70	4.10	B	- - 7/8 - 1 - 1 1/8 - - -	1 3/4	1 5/32	1 15/32	3.7
2BK50	4.75	4.00	4.40	B	3/4 - - - 1 - 1 1/8 - - - 1 3/8	1 3/4	1 5/32	1 15/32	4.1
2BK52	4.95	4.20	4.60	B	- - 7/8 - 1 - 1 1/8 - - - 1 3/8	1 3/4	1 5/32	1 15/32	4.5
2BK55	5.25	4.50	4.90	B	- - - - - 1 1/8 - - - 1 3/8	1 3/4	1 5/32	1 15/32	4.5
2BK57	5.45	4.70	5.10	B	- - - - 1 - 1 1/8 - - - 1 3/8	1 3/4	1 5/32	1 15/32	5.1
2BK60	5.75	5.00	5.40	B	3/4 - 7/8 - 1 - 1 1/8 - - - 1 3/8	1 3/4	1 5/32	1 15/32	4.9
2BK62	5.95	5.20	5.60	B	- - - - 1 - 1 1/8 - - - 1 3/8	1 3/4	1 5/32	1 15/32	4.8
2BK65	6.25	5.50	5.90	B	- - - - 1 - 1 1/8 - - - 1 3/8	1 3/4	1 5/32	1 15/32	5.0
2BK67	6.45	5.70	6.10	C	- - - - - 1 - 1 1/8 - - - 1 3/8	1 3/4	1 5/32	1 15/32	5.0
2BK70	6.75	6.00	6.40	C	3/4 - - - 1 - 1 1/8 - 1 1/16 - 1 3/8 - 1 7/16	1 3/4	1 11/32	1 19/32	6.6
2BK80	7.75	7.00	7.40	C	3/4 - - - 1 - 1 1/8 - 1 1/16 - 1 3/8 - 1 7/16	1 3/4	1 11/32	1 19/32	7.2
2BK90	8.75	8.00	8.40	C	3/4 - - - 1 - 1 1/8 - 1 1/16 - 1 3/8 - 1 7/16	1 3/4	1 11/32	1 19/32	8.4
2BK100	9.75	9.00	9.40	C	3/4 - - - 1 - - - - 1 1/16 - 1 3/8 - 1 7/16	1 3/4	1 11/32	1 19/32	9.4
2BK110	10.75	10.00	10.40	C	- - - - 1 - - - - 1 1/16 - - - 1 7/16	1 3/4	1 11/32	1 19/32	10.4
2BK120	11.75	11.00	11.40	C	- - - - 1 - - - - 1 1/16 - - - 1 7/16	1 3/4	1 11/32	1 19/32	11.8
2BK130	12.75	12.00	12.40	C	- - - - 1 - - - - 1 1/16 - - - 1 7/16	1 3/4	1 11/32	1 19/32	14.9
2BK140	13.75	13.00	13.40	C	- - - - 1 - - - - 1 1/16 - - - 1 7/16	1 3/4	1 11/32	1 19/32	16.3
2BK160	15.75	15.00	15.40	C	- - - - 1 - - - - 1 1/16 - - - 1 7/16	1 3/4	1 11/32	1 19/32	18.0
2BK190	18.75	18.00	18.40	C	- - - - 1 - - - - 1 1/16 - - - 1 7/16	1 3/4	1 11/32	1 19/32	23.3

1/2" Bore - setscrew only - no keyway

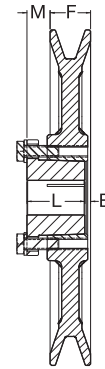
BK-H Single Groove FHP Sheaves MST® Bushed



TYPE A
Solid



TYPE B
Web



TYPE C
Arm / Spoke

FHP Sheave — BK-H

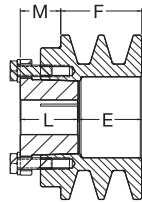
Part Number	Diameter			Type	Bush	Bush Max. Bore	F	E	L Thru Bore	M	Weight Less Bush
	OD	Datum A(4L) Belts	Datum B(5L) Belts								
BK30-H	3.15	2.40	2.80	A	H	1-1/2	7/8	1/2	1-1/4	7/8	1.3
BK32-H	3.35	2.60	3.00	A	H	1-1/2	7/8	1/2	1-1/4	7/8	1.5
BK34-H	3.55	2.80	3.20	A	H	1-1/2	7/8	1/2	1-1/4	7/8	1.7
BK36-H	3.75	3.00	3.40	B	H	1-1/2	7/8	1/16	1-1/4	7/16	1.3
BK40-H	3.95	3.20	3.60	B	H	1-1/2	7/8	1/16	1-1/4	7/16	1.5
BK45-H	4.25	3.50	3.90	B	H	1-1/2	7/8	1/16	1-1/4	7/16	1.9
BK47-H	4.45	3.70	4.10	B	H	1-1/2	7/8	1/16	1-1/4	7/16	2.2
BK50-H	4.75	4.00	4.40	B	H	1-1/2	7/8	1/16	1-1/4	7/16	2.2
BK52-H	4.95	4.20	4.60	B	H	1-1/2	7/8	1/16	1-1/4	7/16	2.5
BK55-H	5.25	4.50	4.90	B	H	1-1/2	7/8	1/16	1-1/4	7/16	3.0
BK57-H	5.45	4.70	5.10	B	H	1-1/2	7/8	1/16	1-1/4	7/16	3.2
BK60-H	5.75	5.00	5.40	B	H	1-1/2	7/8	1/16	1-1/4	7/16	3.2
BK62-H	5.95	5.20	5.60	B	H	1-1/2	7/8	1/16	1-1/4	7/16	3.6
BK65-H	6.25	5.50	5.90	B	H	1-1/2	7/8	1/16	1-1/4	7/16	4.0
BK67-H	6.45	5.70	6.10	B	H	1-1/2	7/8	1/16	1-1/4	7/16	4.2
BK70-H	6.75	6.00	6.40	C	H	1-1/2	7/8	1/8	1-1/4	1/2	3.3
BK72-H	6.95	6.20	6.60	C	H	1-1/2	7/8	1/8	1-1/4	1/2	3.6
BK75-H	7.25	6.50	6.90	C	H	1-1/2	7/8	1/8	1-1/4	1/2	3.4
BK77-H	7.45	6.70	7.10	C	H	1-1/2	7/8	1/8	1-1/4	1/2	3.7
BK80-H	7.75	7.00	7.40	C	H	1-1/2	7/8	1/8	1-1/4	1/2	4.0
BK85-H	8.25	7.50	7.90	C	H	1-1/2	7/8	1/8	1-1/4	1/2	4.1
BK90-H	8.75	8.00	8.40	C	H	1-1/2	7/8	1/8	1-1/4	1/2	4.5
BK95-H	9.25	8.50	8.90	C	H	1-1/2	7/8	1/8	1-1/4	1/2	4.8
BK100-H	9.75	9.00	9.40	C	H	1-1/2	7/8	1/8	1-1/4	1/2	5.1
BK105-H	10.25	9.50	9.90	C	H	1-1/2	7/8	1/8	1-1/4	1/2	5.4
BK110-H	10.75	10.00	10.40	C	H	1-1/2	7/8	1/8	1-1/4	1/2	6.0
BK115-H	11.25	10.50	10.90	C	H	1-1/2	7/8	1/8	1-1/4	1/2	6.3
BK120-H	11.75	11.00	11.40	C	H	1-1/2	7/8	1/8	1-1/4	1/2	6.6
BK130-H	12.75	12.00	12.40	C	H	1-1/2	7/8	1/8	1-1/4	1/2	7.2
BK140-H	13.75	13.00	13.40	C	H	1-1/2	7/8	1/8	1-1/4	1/2	8.6
BK150-H	14.75	14.00	14.40	C	H	1-1/2	7/8	1/8	1-1/4	1/2	9.4
BK160-H	15.75	15.00	15.40	C	H	1-1/2	7/8	1/8	1-1/4	1/2	10.1
BK190-H	18.75	18.00	18.40	C	H	1-1/2	7/8	1/8	1-1/4	1/2	12.3

Dimensions in inches, weight in pounds. Weights do not include bushings. See page D-58 for additional bushing information.

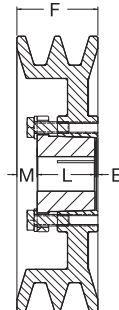


Two Groove FHP Sheaves MST® Bushed

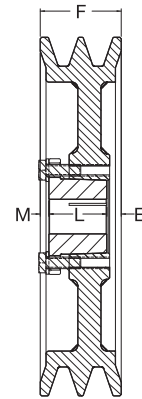
2BK-H



TYPE A
Solid



TYPE B
Web



TYPE C
Arm / Spoke

FHP Sheave — 2BK-H

Part Number	Diameter			Type	Bush	Bush Max. Bore	F	E	L Thru Bore	M	Weight Less Bush
	OD	Datum A(4L) Belts	Datum B(5L) Belts								
2BK32-H	3.35	2.60	3.00	A	H	1-1/2	1-3/4	1-3/8	1-1/4	7/8	2.2
2BK34-H	3.55	2.80	3.20	A	H	1-1/2	1-3/4	1-3/8	1-1/4	7/8	2.6
2BK36-H	3.75	3.00	3.40	A	H	1-1/2	1-3/4	15/16	1-1/4	7/16	2.4
2BK40-H	3.95	3.20	3.60	A	H	1-1/2	1-3/4	15/16	1-1/4	7/16	2.6
2BK45-H	4.25	3.50	3.90	A	H	1-1/2	1-3/4	15/16	1-1/4	7/16	3.1
2BK47-H	4.45	3.70	4.10	B	H	1-1/2	1-3/4	1/16	1-1/4	7/16	3.2
2BK50-H	4.75	4.00	4.40	B	H	1-1/2	1-3/4	1/16	1-1/4	7/16	3.7
2BK52-H	4.95	4.20	4.60	B	H	1-1/2	1-3/4	1/16	1-1/4	7/16	4.1
2BK55-H	5.25	4.50	4.90	B	H	1-1/2	1-3/4	1/16	1-1/4	7/16	4.2
2BK57-H	5.45	4.70	5.10	B	H	1-1/2	1-3/4	1/16	1-1/4	7/16	4.5
2BK60-H	5.75	5.00	5.40	B	H	1-1/2	1-3/4	1/16	1-1/4	7/16	4.9
2BK62-H	5.95	5.20	5.60	B	H	1-1/2	1-3/4	1/16	1-1/4	7/16	5.2
2BK65-H	6.25	5.50	5.90	C	H	1-1/2	1-3/4	5/16	1-1/4	3/16	5.7
2BK67-H	6.45	5.70	6.10	C	H	1-1/2	1-3/4	5/16	1-1/4	3/16	5.8
2BK70-H	6.75	6.00	6.40	C	H	1-1/2	1-3/4	5/16	1-1/4	3/16	6.1
2BK72-H	6.95	6.20	6.60	C	H	1-1/2	1-3/4	5/16	1-1/4	3/16	6.1
2BK80-H	7.75	7.00	7.40	C	H	1-1/2	1-3/4	5/16	1-1/4	3/16	7.4
2BK90-H	8.75	8.00	8.40	C	H	1-1/2	1-3/4	5/16	1-1/4	3/16	8.5
2BK100-H	9.75	9.00	9.40	C	H	1-1/2	1-3/4	5/16	1-1/4	3/16	9.7
2BK110-H	10.75	10.00	10.40	C	H	1-1/2	1-3/4	5/16	1-1/4	3/16	10.9
2BK120-H	11.75	11.00	11.40	C	H	1-1/2	1-3/4	5/16	1-1/4	3/16	12.0
2BK130-H	12.75	12.00	12.40	C	H	1-1/2	1-3/4	5/16	1-1/4	3/16	13.4
2BK140-H	13.75	13.00	13.40	C	H	1-1/2	1-3/4	5/16	1-1/4	3/16	15.3
2BK160-H	15.75	15.00	15.40	C	H	1-1/2	1-3/4	5/16	1-1/4	3/16	17.8
2BK190-H	18.75	18.00	18.40	C	H	1-1/2	1-3/4	5/16	1-1/4	3/16	22.8

Dimensions in inches, weight in pounds. Weights do not include bushings. See page D-58 for additional bushing information.

MST "H" Bushings – Inch Bore

Diameter Of Shaft	Keyway Width x Depth	Diameter Of Shaft	Keyway Width x Depth
3/8	NONE	1	1/4 x 1/8
7/16	NONE	1-1/16	1/4 x 1/8
1/2	1/8 x 1/16	1-1/8	1/4 x 1/8
9/16	1/8 x 1/16	1-3/16	1/4 x 1/8
19/32	1/8 x 1/16	1-1/4	1/4 x 1/8
5/8	3/16 x 3/32	1-5/16	5/16 x 1/16
21/32	3/16 x 3/32	1-3/8	5/16 x 1/16
11/16	3/16 x 3/32	1-3/8	3/8 x 1/16
3/4	3/16 x 3/32	1-7/16	3/8 x 1/16
25/32	3/16 x 3/32	1-1/2	3/8 x 1/32
13/16	3/16 x 3/32		
7/8	3/16 x 3/32		
15/16	1/4 x 1/8		
31/32	1/4 x 1/8		

MST "H" Bushings – Millimeter Bore

Diameter Of Shaft	Keyway Width x Depth	Diameter Of Shaft	Keyway Width x Depth
10	NONE	22	6 x 2.8
11	NONE	24	8 x 3.3
12	NONE	25	8 x 3.3
14	5 x 2.3	28	8 x 3.3
16	5 x 2.3	30	8 x 3.3
18	6 x 2.8	32	10 x 1.3
19	6 x 2.8	35	10 x 0.3
20	6 x 2.8	36	10 x 1.3
		38	10 x 0.3

Stock Variable Pitch Sheaves



**1VP
Bored-To-Size**



**2VP
Bored-To-Size**

- Stationary adjustable speed sheaves.
- Single and double groove designs.
- Full range of popular bore sizes including keyway and setscrew.
- Positive locking system.
- Precision machined grooves.
- Statically balanced.

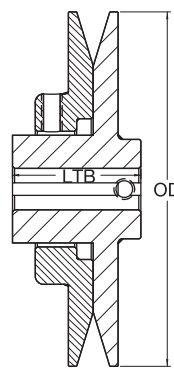


Single Groove Variable Pitch Sheaves – Bored-To-Size

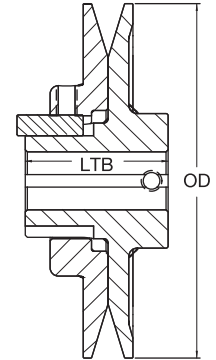
1VP

Keyway Dimensions Inch Bore

Diameter Of Shaft	Keyway Width X Depth
1/2	NONE
5/8 - 7/8	3/16 x 3/32
15/16 - 1-1/4	1/4 x 1/8
1-5/16 - 1-3/8	5/16 x 5/32
1-7/16 - 1-3/4	3/8 x 3/16



TYPE A



TYPE B

Belt Dimensions

Part Number	Diameters And Turns															
	3L Belts				A or 4L Belts				B or 5L Belts				5V Belts			
	Min. Pitch	Turns Open	Max. Pitch	Turns Open	Min. Datum	Turns Open	Max. Datum	Turns Open	Min. Datum	Turns Open	Max. Datum	Turns Open	Min. Pitch	Turns Open	Max. Pitch	Turns Open
1VP25	1.6	4	2.4	0	-	-	-	-	-	-	-	-	-	-	-	-
1VP30	1.8	4	2.7	0	-	-	-	-	-	-	-	-	-	-	-	-
1VP34	1.9	4	2.8	0	2.0	5	3.0	0	2.3	5	3.2	1	-	-	-	-
1VP40	2.4	4	3.2	0	2.5	5	3.5	0	2.6	6	3.6	1	-	-	-	-
1VP44	2.8	4	3.7	0	2.9	5	3.9	0	3.0	6	4.0	1	-	-	-	-
1VP50	3.4	4	4.2	0	3.5	5	4.5	0	3.6	6	4.6	1	-	-	-	-
1VP56	4.0	4	4.8	0	4.1	5	5.1	0	4.2	6	5.2	1	-	-	-	-
1VP60	-	-	-	-	4.2	5	5.2	0	4.4	6	5.6	0	-	-	-	-
1VP62	4.6	4	5.4	0	4.7	5	5.7	0	4.8	6	5.8	1	5.1	6	6.1	1
1VP65	-	-	-	-	4.7	5	5.7	0	4.9	6	6.1	0	5.1	6	6.3	0
1VP68	5.2	4	6.0	0	5.3	5	6.3	0	5.4	6	6.4	1	5.7	6	6.7	1
1VP71	-	-	-	-	5.3	5	6.3	0	5.5	6	6.7	0	5.7	6	6.9	0
1VP75	-	-	-	-	5.7	5	6.7	0	5.9	6	7.1	0	6.1	6	7.3	0

Dimensions in Inches

Sock Size Dimensions

Part Number	OD	Type	L Thru Bore	Stock Finished Bores Includes Keyway and Setscrew												Wt. Lbs. (Approx.)	
				1/2	5/8	3/4	7/8	1	1-1/8	1-1/4	1-3/8	1-1/2	1-5/8	1-3/4			
1VP25	2.50	A	1-23/32	1/2	-	5/8	-	3/4	-	-	-	-	-	-	-	-	0.8
1VP30	2.87	A	1-11/16	1/2	-	5/8	-	3/4	-	-	-	-	-	-	-	-	1.1
1VP34	3.15	A	1-29/32	1/2	-	5/8	-	3/4	-	7/8	-	-	-	-	-	-	1.4
1VP40	3.75	A	1-7/8	1/2	-	5/8	-	3/4	-	7/8	-	-	-	-	-	-	1.7
1VP44	4.15	A	1-7/8	1/2	-	5/8	-	3/4	-	-	-	-	-	-	-	-	2.4
1VP44	4.15	B	2-3/16	-	-	-	-	-	7/8	-	1	-	1-1/8	-	-	-	3.0
1VP50	4.75	A	2	1/2	-	5/8	-	3/4	-	-	-	-	-	-	-	-	2.7
1VP50	4.75	B	2-5/32	-	-	-	-	-	7/8	-	1	-	1-1/8	-	-	-	3.5
1VP56	5.35	A	1-15/16	1/2	-	5/8	-	3/4	-	-	-	-	-	-	-	-	4.1
1VP56	5.35	B	2-5/32	-	-	-	-	-	7/8	-	1	-	1-1/8	-	-	-	4.4
1VP60	6.00	B	2-7/32	-	5/8	-	3/4	-	7/8	-	1	-	1-1/8	-	-	1-3/8	6.3
1VP62	5.95	B	1-29/32	-	5/8	-	3/4	-	7/8	-	1	-	1-1/8	-	1-1/4	-	6.1
1VP65	6.50	B	2-7/32	-	-	-	3/4	-	7/8	-	-	-	1-1/8	-	-	1-3/8	7.1
1VP68	6.55	B	1-29/32	-	5/8	-	3/4	-	7/8	-	1	-	1-1/8	-	1-1/4	-	7.3
1VP71	7.10	B	2-7/32	-	-	-	3/4	-	7/8	-	-	-	1-1/8	-	-	1-3/8	8.2
1VP75	7.50	B	2-7/32	-	-	-	3/4	-	7/8	-	1	-	1-1/8	-	-	1-3/8	9.0

1/2" Bore - setscrew only - no keyway

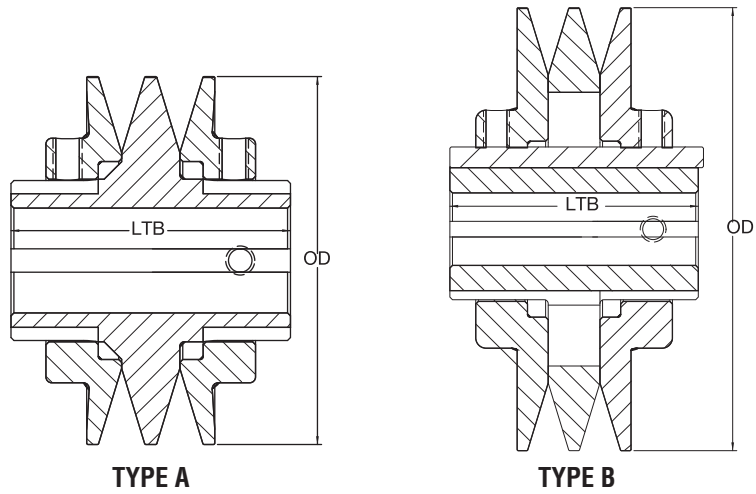
Dimensions in Inches

2VP Two Groove Variable Pitch Sheaves – Bored-To-Size



Keyway Dimensions Inch Bore

Diameter Of Shaft	Keyway Width x Depth
1/2	NONE
5/8 - 7/8	3/16 x 3/32
15/16 - 1-1/4	1/4 x 1/8
1-5/16 - 1-3/8	5/16 x 5/32
1-7/16 - 1-3/4	3/8 x 3/16



Belt Dimensions

Part Number	Diameters And Turns															
	3L Belts				A or 4L Belts				B or 5L Belts				5V Belts			
	Min. Pitch	Turns Open	Max. Pitch	Turns Open	Min. Datum	Turns Open	Max. Datum	Turns Open	Min. Datum	Turns Open	Max. Datum	Turns Open	Min. Pitch	Turns Open	Max. Pitch	Turns Open
2VP36	2.0	4	2.8	0	2.1	5	3.1	0	2.4	5	3.2	1	-	-	-	-
2VP42	2.6	4	3.4	0	2.7	5	3.7	0	2.8	6	3.8	1	-	-	-	-
2VP50	3.4	4	4.2	0	3.5	5	4.5	0	3.6	6	4.6	1	-	-	-	-
2VP56	4.0	4	4.8	0	4.1	5	5.1	0	4.2	6	5.2	1	-	-	-	-
2VP60	-	-	-	-	4.2	5	5.2	0	4.4	6	5.6	0	-	-	-	-
2VP62	4.6	4	5.4	0	4.7	5	5.7	0	4.8	6	5.8	1	5.1	6	6.1	1
2VP65	-	-	-	-	4.7	5	5.7	0	4.9	6	6.1	0	5.1	6	6.3	0
2VP68	5.2	4	6.0	0	5.3	5	6.3	0	5.4	6	6.4	1	5.7	6	6.7	1
2VP71	-	-	-	-	5.3	5	6.3	0	5.5	6	6.7	0	5.7	6	6.9	0
2VP75	-	-	-	-	5.7	5	6.7	0	5.9	6	7.1	0	6.1	6	7.3	0

Dimensions in Inches

Sock Size Dimensions

Part Number	OD	Type	L Thru Bore	Stock Finished Bores Includes Keyway and Setscrew												Wt. Lbs. (Approx.)	
				1/2	5/8	3/4	7/8	1	1-1/8	1-3/8	1-1/2	1-3/4	1-7/8	2			
2VP36	3.35	A	3	1/2	-	5/8	-	3/4	-	7/8	-	1	-	1-1/8	-	-	3.6
2VP42	3.95	A	3	-	5/8	-	3/4	-	7/8	-	1	-	1-1/8	-	-	4.5	
2VP50	4.75	B	3	-	5/8	-	3/4	-	7/8	-	1	-	1-1/8	-	-	6.1	
2VP56	5.35	B	3	-	5/8	-	3/4	-	7/8	-	1	-	1-1/8	-	-	7.5	
2VP60	6.00	B	3-1/4	-	-	-	3/4	-	7/8	-	1	-	1-1/8	-	1-3/8	10.9	
2VP62	5.95	B	3	-	-	-	3/4	-	7/8	-	1	-	1-1/8	-	1-3/8	10.0	
2VP65	6.50	B	3-1/4	-	-	-	3/4	-	7/8	-	1	-	1-1/8	-	1-3/8	12.5	
2VP68	6.55	B	3	-	-	-	3/4	-	7/8	-	1	-	1-1/8	1-1/4	1-3/8	11.7	
2VP71	7.10	B	3-1/4	-	-	-	3/4	-	7/8	-	1	-	1-1/8	-	1-3/8	14.7	
2VP75	7.50	B	3-1/4	-	-	-	3/4	-	7/8	-	1	-	1-1/8	-	1-3/8	16.3	

1/2" Bore - setscrew only - no keyway

Dimensions in Inches

Mounting and Adjusting Procedure

Single Groove Sheaves Without External Key:

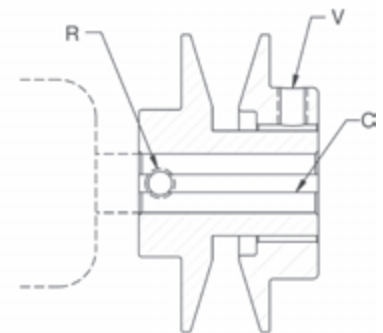
Mounting:

1. Make sure that the shaft, sheave bore, key and keyway are free of burrs and paint.
2. All sheaves should be mounted on the motor or driving shaft with the end containing the setscrew "R" toward the motor. Be sure setscrew "R" is well over the shaft.
3. Fit shaft key "C" between sheave and shaft. Lock setscrew "R" in place. Wrench torque 110 in.-lb. minimum – 130 in.-lb. maximum.
4. Be sure both driving and driven sheaves are in alignment and that shafts are parallel.
5. Total axial and parallel misalignment must not exceed $\frac{1}{4}^{\circ}$.

Adjusting:

1. Loosen setscrew "V" in movable flange of sheave.
2. Adjust sheave pitch diameter for desired speed by opening rotating parts by half or full turn increments from closed position. **Do not open more than five full turns for "A" belts or six full turns for "B" belts.**
3. Tighten setscrew "V" over a flat in the hub to 110 to 130 in.-lb.
4. Put on belts and adjust belt tension. (Do not force belts over grooves.)
5. Future adjustments should be made by loosening the belt tension and increasing or decreasing the pitch diameter of the sheave by half or full turns as required. Readjust belt tension before starting drive.
6. Be sure that key is in place and that all setscrews are torqued properly before starting drive. Check setscrews and belt tension after 24 hours of service.

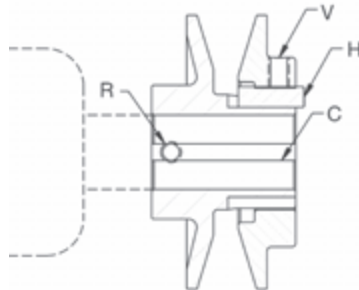
Do not operate sheave with flange projecting beyond the hub end.



Single Groove Sheaves With External Key:

Key "H" projects to provide a grip for removal.

Do not operate sheave with flange projecting beyond the hub end.



Mounting:

1. Make sure that the shaft, sheave bore, keys and keyways are free of burrs and paint.
2. All sheaves should be mounted on the motor or driving shaft with the end containing the setscrew "R" toward the motor. Be sure setscrew "R" is well over the shaft.
3. Fit shaft key "C" between sheave and shaft. Lock setscrew "R" in place. Wrench torque 110 in.-lb. minimum - 130 in.-lb. maximum.
4. Be sure both driving and driven sheaves are in alignment and that shafts are parallel.
5. Total axial and parallel misalignment must not exceed $\frac{1}{4}^{\circ}$.

Adjusting:

1. Loosen setscrew "V" in movable flange of sheave and pull out external key "H". (This key projects a small amount to provide a grip for removal.)
2. Adjust sheave pitch diameter for desired speed by opening rotating parts by half or full turn increments from closed position. **Do not open more than five full turns for "A" belts or six full turns for "B" belts. (Except 1VP34 - 5 turns.)**
3. Replace key "H" and tighten setscrew "V" to 110 to 130 in.-lb.
4. Put on belts and adjust belt tension. (Do not force belts over grooves.)
5. Future adjustments should be made by loosening the belt tension and increasing or decreasing the pitch diameter of the sheave by half or full turns as required. Readjust belt tension before starting drive.
6. Be sure that all keys are in place and that all setscrews are torqued properly before starting drive. Check setscrews and belt tension after 24 hours service.

WARNING: Because of the possible danger to person(s) or property from accidents which may result from the improper use of products, it is important that correct procedures be followed: Products must be used in accordance with the engineering information specified in the catalog. Proper installation, maintenance and operation procedures must be observed. The instructions given above must be followed. Inspections should be made as necessary to assure safe operation under prevailing conditions. All rotating power transmission products when used in a drive are potentially dangerous and must be guarded by the user as required by applicable laws, regulations, standards, and good safety practice. (Refer to ANSI Standard B15.1.)

Variable Pitch Sheaves Instructions

Mounting and Adjusting Procedure

Double Groove Sheaves With External Key:

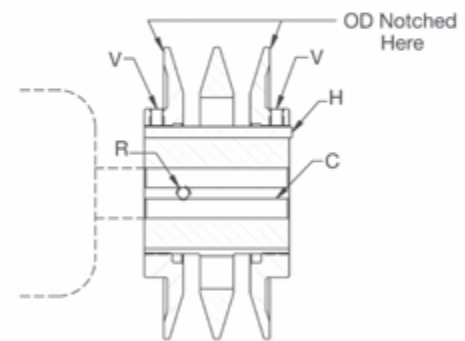
Mounting:

1. Make sure that the shaft, sheave bore, keys and keyways are free of burrs and paint.
2. Remove key "H" from sheave. Unscrew flanges until setscrew "R" is visible. If setscrew "R" is at an angle, flange may have to be removed in order to tighten it.
3. All sheaves should be mounted on the motor or driving shaft with the end containing the setscrew "R" toward the motor. If setscrew "R" is at an angle, mount away from motor.
4. Fit shaft key "C" between sheave and shaft, and lock setscrew "R" in place. Wrench torque 110 in.-lb. minimum - 130 in.-lb. maximum. Replace outboard flange.
5. Be sure the center flange of both the driving and driven sheaves are in alignment and shafts are parallel.
6. Total axial and parallel misalignment must not exceed $\frac{1}{4}^{\circ}$.

Adjusting:

Each flange of the sheave has a small notch on the O.D. of the flange. This mark is located directly over the keyway on the two adjustable flanges and over one of the keyways on the non-adjustable (center) flange. To obtain proper adjustments:

1. Loosen setscrews "V" in moving flanges and pull out key "H". (This key projects a small amount to provide a grip for removal.)
2. Rotate both movable flanges inward until they touch the center flange.
3. Locate the notch over the keyway on the center flange.
4. Open each movable flange until its notch is adjacent to the notch on the center flange. Be certain that neither movable flange is opened more than one full turn.
5. From the position obtained in Step 4, open each movable flange the same number of full or half turns until the desired number of turns is obtained. **Do not open more than five full turns for "A" belts or six full turns for "B" belts. (Except 2VP36 - 5 turns.)**
6. Replace key "H" and tighten setscrews "V". Wrench torque 110 in.-lb. minimum to 130 in.-lb. maximum.
7. Put on belts and adjust belt tension. (Do not force belts over flanges.)
8. Future adjustments should be made by loosening the belt tension and increasing or decreasing the pitch diameter of the sheave by half or full turns as required. Readjust belt tension before starting drive.
9. Two groove sheaves must have both halves adjusted by the same number of turns from the position established in Step 4 to ensure the same pitch diameter.
10. Be sure that all keys are in place and that all setscrews are torqued properly before starting drive. Check setscrews and belt tension after 24 hours service.



Key "H" projects to provide a grip for removal.
Do not operate sheave with flange projecting beyond the hub end.

WARNING: Because of the possible danger to person(s) or property from accidents which may result from the improper use of products, it is important that correct procedures be followed: Products must be used in accordance with the engineering information specified in the catalog. Proper installation, maintenance and operation procedures must be observed. The instructions given above must be followed. Inspections should be made as necessary to assure safe operation under prevailing conditions. All rotating power transmission products when used in a drive are potentially dangerous and must be guarded by the user as required by applicable laws, regulations, standards, and good safety practice. (Refer to ANSI Standard B15.1.)

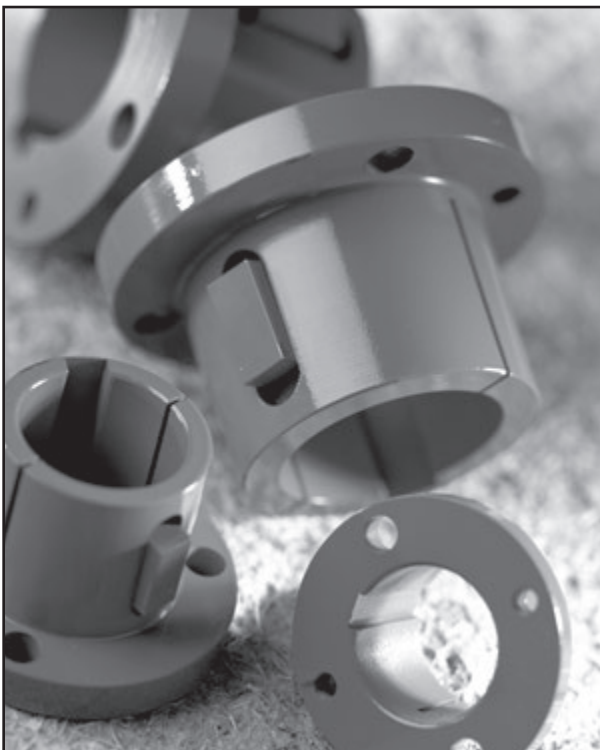


Stock MST® Hi-Cap® Wedge & Conventional Sheaves

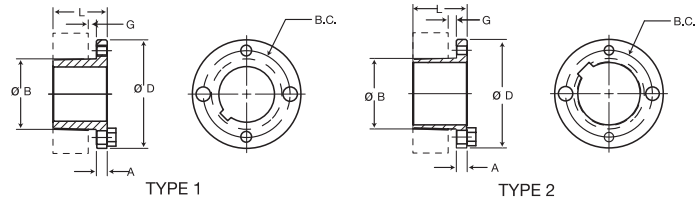


Martin Split Taper (MST®)

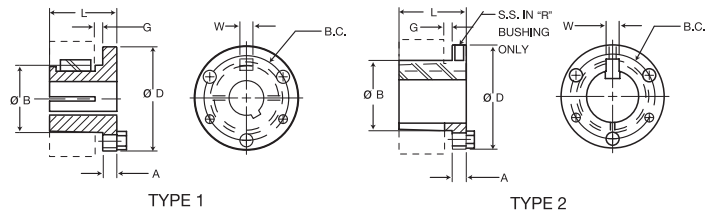
Martin Quality!
Martin Inventory!
Martin Service!



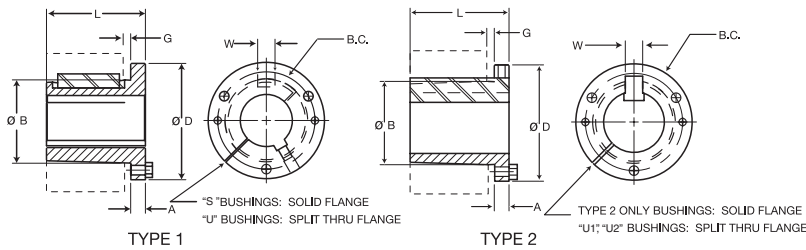
- **Immediate Delivery.**
Deep and broad inventory...Same day shipment.
- **Local Service & Availability.**
Branches throughout North America.
Open early...Stay late...
- **Quick Alterations & MTO's.**
Fast hardening on unhardened sizes. Special sheave and bushing combinations.
- **Reduced Shipping Expense.**
Unsurpassed freight allowance...Product closer to YOU... can ship with other products.
- **Lower Transaction Cost.**
No minimum order or handling charge.
- **Blind Assembly.**
Bushing will only mount one way in sheave.
Bolts all line up when bushing is installed.
- **Key to Key Drive.**
Bushing provides drive keyed to both the shaft and the driven sheave.
- **Comprehensive Offering.**
Martin Split Taper joins complete QD & Taper Bushed Lines.



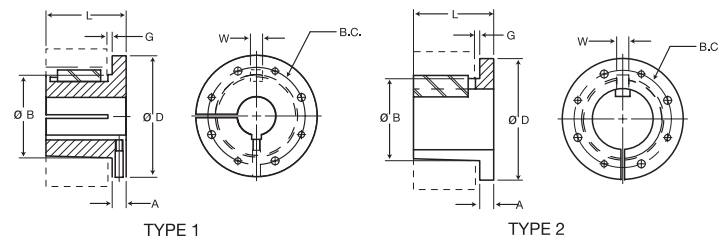
“G” & “H” BUSHINGS



“P”, “Q” & “R” BUSHINGS



“S” & “U” BUSHINGS



“W” BUSHINGS

Bushing Specifications

Part Number	Dimensions							Stock Bore Range		Cap Screws		Av. Wt. Lbs.	Wrench Torque In./lbs.
	D	L	A	B Large End	G	B.C.	W	Type 1	Type 2	No.	Size		
G	2	1.00	.25	1.172	.19	1.56	—	.375 – .938	1	2	.25 × .625	.5	95
H	2.5	1.25	.25	1.625	.19	2	—	.375 – 1.375	1.438 – 1.5	2	.25 × .75	.8	95
P1	3	1.94	.41	1.938	.22	2.44	.375	.5 – 1.438	1.5 – 1.75	3	.313 × 1	1.3	192
P2	3	2.94	.41	1.938	.22	2.44	.375	.75 – 1.438	1.5 – 1.75	3	.313 × 1	1.5	192
P3	3	4.44	.41	1.938	.22	2.44	.375	1.125 – 1.375	1.625	3	.313 × 1	2.0	192
Q1	4.12	2.50	.53	2.875	.22	3.38	.5	.75 – 2.063	2.125 – 2.688	3	.375 × 1.25	3.5	348
Q2	4.12	3.50	.53	2.875	.22	3.38	.5	1 – 2.063	2.125 – 2.625	3	.375 × 1.25	4.5	348
Q3	4.12	5.00	.53	2.875	.22	3.38	.5	1.375 – 2.063	2.125 – 2.5	3	.375 × 1.25	5.5	348
R1	5.38	2.88	.62	4	.25	4.62	.75	1.125 – 2.813	2.875 – 3.75	3	.375 × 1.75	7.5	348
R2	5.38	4.88	.62	4	.25	4.62	.75	1.375 – 2.813	2.875 – 3.625	3	.375 × 1.75	11.0	348
S1	6.38	4.38	.75	4.625	.31	5.38	.75	1.688 – 3.188	3.25 – 4.25	3	.5 × 2.25	13.5	840
S2	6.38	6.75	.75	4.625	.31	5.38	.75	1.875 – 3.188	3.25 – 4.188	3	.5 × 2.25	19.0	840
U0	8.38	5.25	1.06	6	.44	7	1.25	2.375 – 3.063	—	3	.625 × 2.75	30.0	1680
U0	8.38	4.94	.75	6	.44	7	1.25	3.25 – 4.25	4.375 – 5.5	3	.625 × 2.75	27.0	1680
U1	8.38	7.12	1.06	6	.44	7	1.25	2.375 – 4.25	4.375 – 5.5	3	.625 × 2.75	40.0	1680
U2	8.38	10.12	1.06	6	.44	7	1.25	2.438 – 4.25	4.375 – 5	3	.625 × 2.75	50.0	1680
W1	12.5	8.25	1.44	8.5	.44	10	1.25	3.375 – 6.188	6.25 – 7.438	4	.75 × 3	104.0	3000
W2	12.5	11.25	1.44	8.5	.44	10	1.25	3.375 – 6.188	6.25 – 7.438	4	.75 × 3	133.0	3000

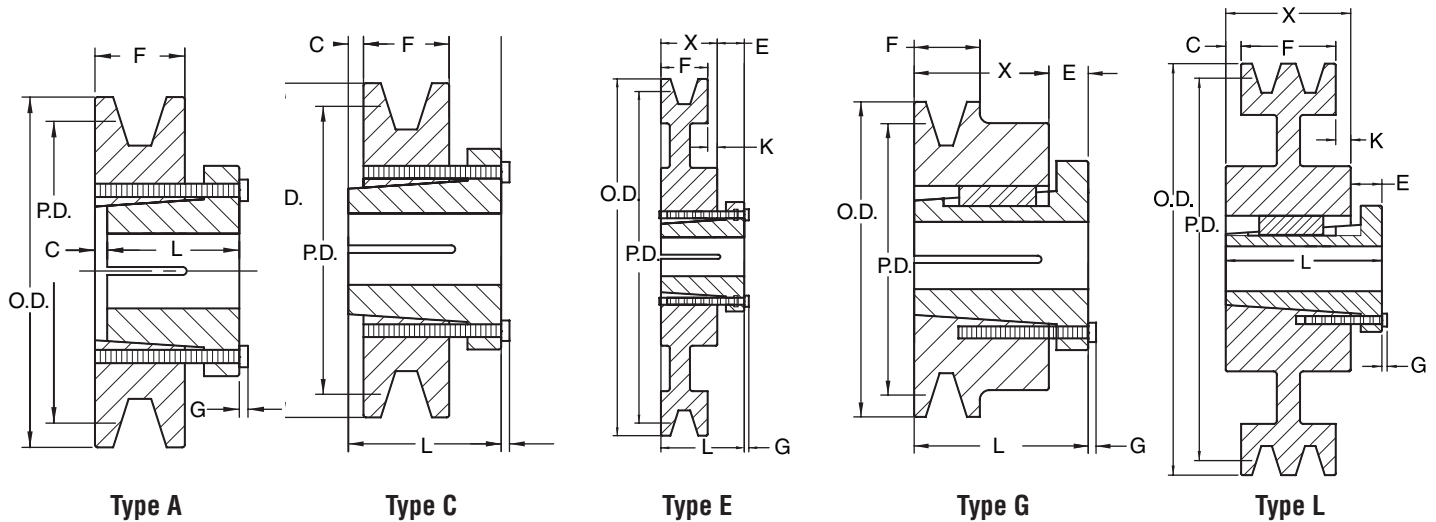
All tapers are .75" per 12" on Diameter.

All dimensions are in inches except, as noted.

All bushings are cast iron, ductile iron, sintered steel, or steel. Consult manufacturer for clarification.

Metric bushings also available.

FOR MST BUSHING INSTALLATION & REMOVAL INSTRUCTION, GO TO PAGE 14 OF SECTION B.



3V MST® Sheaves

1 Groove												
F = 11/16												
Part Number	OD	PD	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		3V Belt										
1 3V 265 G	2.65	2.60	A-1	G	1.00	0.13	—	0.19	0.06	1.00	0.63	0.60
1 3V 280 G	2.80	2.75	A-1	G	1.00	0.13	—	0.19	0.06	1.00	0.63	0.70
1 3V 300 G	3.00	2.95	A-1	G	1.00	0.13	—	0.19	0.06	1.00	0.63	0.90
1 3V 315 H	3.15	3.10	C-1	H	1.50	0.13	—	0.19	0.31	1.25	0.88	0.80
1 3V 335 H	3.35	3.30	C-1	H	1.50	0.13	—	0.19	0.31	1.25	0.88	0.90
1 3V 365 H	3.65	3.60	E-1	H	1.50	—	0.44	0.19	0.19	1.25	0.88	1.40
1 3V 365 P	3.65	3.60	G-1	P1	1.75	—	0.63	0.25	0.63	1.94	1.31	2.00
1 3V 412 H	4.12	4.07	E-1	H	1.50	—	0.44	0.19	0.19	1.25	0.88	1.90
1 3V 412 P	4.12	4.07	G-1	P1	1.75	—	0.63	0.25	0.63	1.94	1.31	2.60
1 3V 450 H	4.50	4.45	E-1	H	1.50	—	0.44	0.19	0.19	1.25	0.88	2.20
1 3V 450 P	4.50	4.45	G-1	P1	1.75	—	0.63	0.25	0.63	1.94	1.31	3.00
1 3V 475 H	4.75	4.70	E-1	H	1.50	—	0.44	0.19	0.19	1.25	0.88	2.40
1 3V 475 P	4.75	4.70	G-1	P1	1.75	—	0.63	0.25	0.63	1.94	1.31	3.50
1 3V 500 H	5.00	4.95	E-1	H	1.50	—	0.44	0.19	0.19	1.25	0.88	2.60
1 3V 500 P	5.00	4.95	G-1	P1	1.75	—	0.63	0.25	0.63	1.94	1.31	3.80
1 3V 530 H	5.30	5.25	E-1	H	1.50	—	0.44	0.19	0.19	1.25	0.88	2.50
1 3V 530 P	5.30	5.25	G-1	P1	1.75	—	0.63	0.25	0.63	1.94	1.31	4.20
1 3V 560 H	5.60	5.55	E-1	H	1.50	—	0.44	0.19	0.19	1.25	0.88	2.60
1 3V 560 P	5.60	5.55	G-1	P1	1.75	—	0.63	0.25	0.63	1.94	1.31	4.60
1 3V 600 H	6.00	5.95	E-1	H	1.50	—	0.44	0.19	0.19	1.25	0.88	2.90
1 3V 600 P	6.00	5.95	G-1	P1	1.75	—	0.63	0.25	0.63	1.94	1.31	5.30
1 3V 650 P	6.50	6.45	L-3	P1	1.75	0.31	0.63	0.25	0.63	1.94	1.31	5.50
1 3V 690 P	6.90	6.85	L-3	P1	1.75	0.31	0.63	0.25	0.63	1.94	1.31	4.90
1 3V 800 P	8.00	7.95	L-3	P1	1.75	0.31	0.63	0.25	0.63	1.94	1.31	6.50
1 3V 1060 P	10.60	10.55	L-3	P1	1.75	0.31	0.63	0.25	0.94	1.94	1.31	7.80
1 3V 1400 Q	14.00	13.95	L-3	Q1	2.69	0.53	0.75	0.28	1.06	2.50	1.75	18.10
1 3V 1900 Q	19.00	18.95	L-3	Q1	2.69	0.53	0.75	0.28	1.06	2.50	1.75	26.30
1 3V 2500 Q	25.00	24.95	L-3	Q1	2.69	0.53	0.75	0.28	1.06	2.50	1.75	38.30

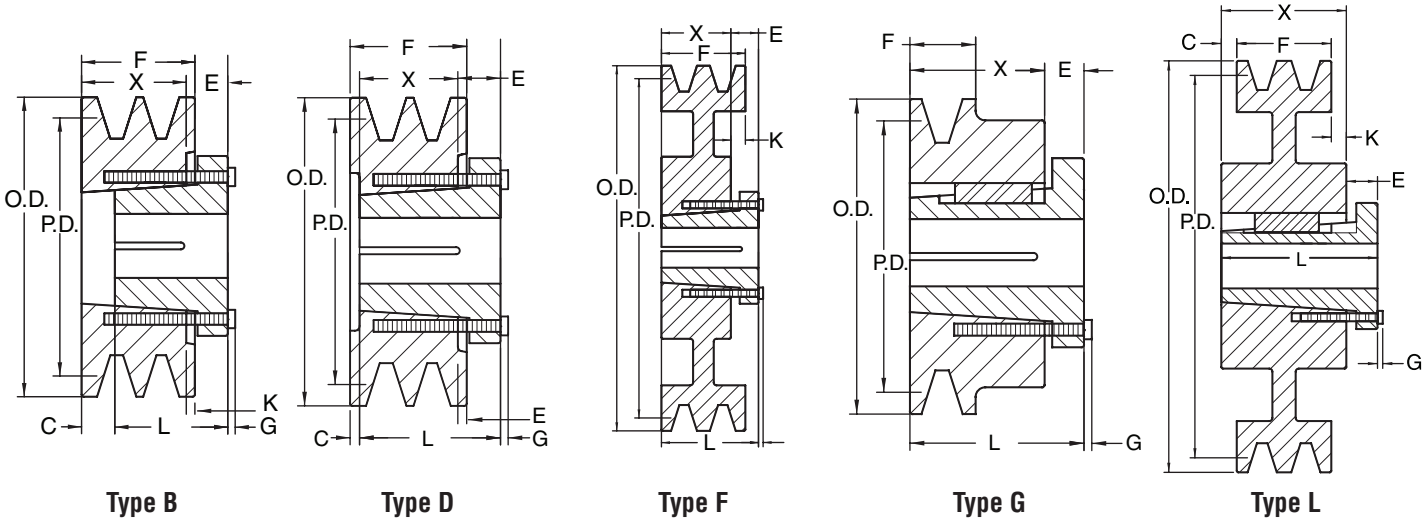
NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings

1 = Solid

2 = Web

3 = Spoked

3V Hi-Cap Wedge Stock MST® Sheaves



3V MST® Sheaves

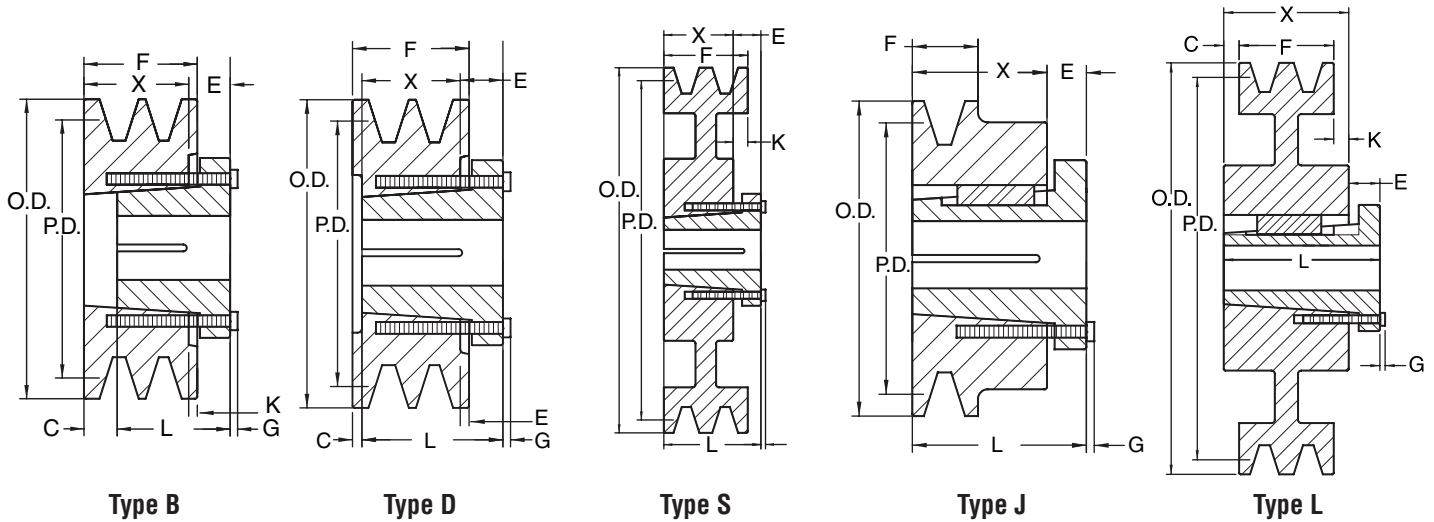
2 Groove F = 1-1/32												
Part Number	OD	PD 3V Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
2 3V 280 G	2.80	2.75	B-1	G	1.00	0.41	0.44	0.19	—	1.00	0.97	0.90
2 3V 300 G	3.00	2.95	B-1	G	1.00	0.41	0.44	0.19	—	1.00	0.97	1.30
2 3V 315 H	3.15	3.10	D-1	H	1.50	0.22	0.44	0.19	—	1.25	0.81	0.90
2 3V 335 H	3.35	3.30	D-1	H	1.50	0.22	0.44	0.19	—	1.25	0.81	1.30
2 3V 365 H	3.65	3.60	F-1	H	1.50	—	0.44	0.19	0.19	1.25	0.88	1.60
2 3V 365 P	3.65	3.60	G-1	P1	1.75	—	0.63	0.25	—	1.94	1.31	2.00
2 3V 412 H	4.12	4.07	F-1	H	1.50	—	0.44	0.19	0.19	1.25	0.88	2.30
2 3V 412 P	4.12	4.07	G-1	P1	1.75	—	0.63	0.25	—	1.94	1.31	2.80
2 3V 450 H	4.50	4.45	F-1	H	1.50	—	0.44	0.19	0.19	1.25	0.88	2.80
2 3V 450 P	4.50	4.45	G-1	P1	1.75	—	0.63	0.25	—	1.94	1.31	3.50
2 3V 475 H	4.75	4.70	F-1	H	1.50	—	0.44	0.19	0.19	1.25	0.88	3.10
2 3V 475 P	4.75	4.70	G-1	P1	1.75	—	0.63	0.25	—	1.94	1.31	4.00
2 3V 500 H	5.00	4.95	F-1	H	1.50	—	0.44	0.19	0.19	1.25	0.88	3.40
2 3V 500 P	5.00	4.95	G-1	P1	1.75	—	0.63	0.25	—	1.94	1.31	4.60
2 3V 530 H	5.30	5.25	F-1	H	1.50	—	0.44	0.19	0.19	1.25	0.88	3.70
2 3V 530 P	5.30	5.25	G-1	P1	1.75	—	0.63	0.25	—	1.94	1.31	5.60
2 3V 560 H	5.60	5.55	F-1	H	1.50	—	0.44	0.19	0.19	1.25	0.88	3.10
2 3V 560 P	5.60	5.55	G-1	P1	1.75	—	0.63	0.25	—	1.94	1.31	6.00
2 3V 600 H	6.00	5.95	F-1	H	1.50	—	0.44	0.19	0.19	1.25	0.88	3.60
2 3V 600 P	6.00	5.95	G-1	P1	1.75	—	0.63	0.25	—	1.94	1.31	6.80
2 3V 650 P	6.50	6.45	L-3	P1	1.75	0.33	0.75	0.28	1.05	2.50	1.75	8.30
2 3V 690 P	6.90	6.85	L-3	P1	1.75	0.33	0.75	0.28	1.05	2.50	1.75	9.80
2 3V 800 P	8.00	7.95	L-3	Q1	2.69	0.33	0.75	0.28	1.05	2.50	1.75	10.80
2 3V 1060 P	10.60	10.55	L-3	Q1	2.69	0.33	0.75	0.28	1.05	2.50	1.75	13.50
2 3V 1400 Q	14.00	13.95	L-3	Q1	2.69	0.53	0.75	0.28	1.06	2.50	1.75	22.50
2 3V 1900 Q	19.00	18.95	L-3	Q1	2.69	0.53	0.75	0.28	1.06	2.50	1.75	28.90
2 3V 2500 Q	25.00	24.95	L-3	Q1	2.69	0.53	0.75	0.28	1.06	2.50	1.75	43.50

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings

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2 = Web

3 = Spoked



3V MST® Sheaves

3 Groove												
F = 1-1/2												
Part Number	OD	PD	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		3V Belt										
3 3V 265 G	2.65	2.60	B-1	G	1.00	0.81	0.44	0.19	0.06	1.00	0.63	1.10
3 3V 280 G	2.80	2.75	B-1	G	1.00	0.81	0.44	0.19	0.06	1.00	0.63	1.60
3 3V 300 G	3.00	2.95	B-1	G	1.00	0.81	0.44	0.19	0.06	1.00	0.63	1.80
3 3V 315 H	3.15	3.10	D-1	H	1.50	0.56	0.44	0.19	0.06	1.25	0.88	1.40
3 3V 335 H	3.35	3.30	D-1	H	1.50	0.56	0.44	0.19	0.06	1.25	0.88	1.80
3 3V 365 P	3.65	3.60	S-1	P1	1.75	0.19	0.63	0.25	0.00	1.94	1.31	2.50
3 3V 412 P	4.12	4.07	S-1	P1	1.75	0.19	0.63	0.25	0.00	1.94	1.31	3.00
3 3V 450 P	4.50	4.45	J-1	P1	1.75	-	0.63	0.25	0.19	1.94	1.31	3.90
3 3V 475 P	4.75	4.70	J-1	P1	1.75	-	0.63	0.25	0.19	1.94	1.31	4.40
3 3V 500 P	5.00	4.95	J-1	P1	1.75	-	0.63	0.25	0.19	1.94	1.31	4.90
3 3V 530 P	5.30	5.25	J-1	P1	1.75	-	0.63	0.25	0.19	1.94	1.31	5.90
3 3V 560 P	5.60	5.55	J-1	P1	1.75	-	0.63	0.25	0.19	1.94	1.31	7.50
3 3V 600 P	6.00	5.95	J-1	P1	1.75	-	0.63	0.25	0.19	1.94	1.31	8.00
3 3V 650 Q	6.50	6.45	L-1	Q1	2.69	0.13	0.75	0.28	0.38	2.50	1.75	9.90
3 3V 690 Q	6.90	6.85	L-1	Q1	2.69	0.13	0.75	0.28	0.38	2.50	1.75	11.30
3 3V 800 Q	8.00	7.95	L-2	Q1	2.69	0.13	0.75	0.28	0.38	2.50	1.75	11.90
3 3V 1060 Q	10.60	10.55	L-3	Q1	2.69	0.13	0.75	0.28	0.38	2.50	1.75	15.10
3 3V 1400 Q	14.00	13.95	L-3	Q1	2.69	0.13	0.75	0.28	0.38	2.50	1.75	24.50
3 3V 1900 R	19.00	18.95	L-3	R1	3.75	0.25	0.88	0.28	0.75	2.88	2.00	35.10
3 3V 2500 R	25.00	24.95	L-3	R1	3.75	0.25	0.88	0.28	0.75	2.88	2.00	55.00
3 3V 3350 R	33.50	33.45	L-3	R1	3.75	0.25	0.88	0.28	0.75	2.88	2.00	80.00

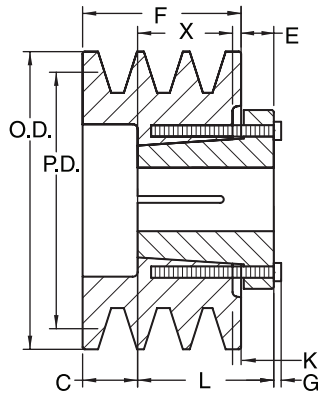
NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings

1 = Solid

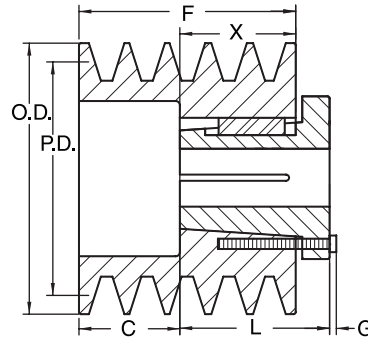
2 = Web

3 = Spoked

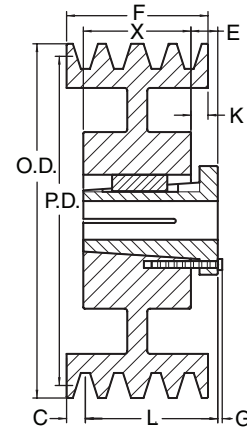
3V Hi-Cap Wedge Stock MST® Sheaves



Type H



Type S



Type J

3V MST® Sheaves

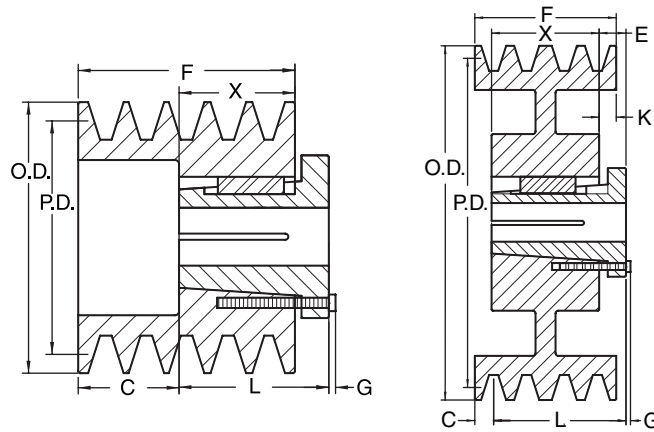
4 Groove F = 1-29/32												
Part Number	OD	PD 3V Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
4 3V 280 G	2.80	2.75	H-1	G	1.00	1.22	0.44	0.19	0.06	1.00	0.63	1.80
4 3V 300 G	3.00	2.95	H-1	G	1.00	1.22	0.44	0.19	0.06	1.00	0.63	2.10
4 3V 315 H	3.15	3.10	H-1	H	1.50	0.97	0.44	0.19	0.06	1.25	0.88	1.80
4 3V 335 H	3.35	3.30	H-1	H	1.50	0.97	0.44	0.19	0.06	1.25	0.88	2.30
4 3V 365 P	3.65	3.60	S-1	P1	1.75	0.59	0.63	0.25	0.00	1.94	1.31	2.80
4 3V 412 P	4.12	4.07	S-1	P1	1.75	0.59	0.63	0.25	0.00	1.94	1.31	3.70
4 3V 450 P	4.50	4.45	J-1	P1	1.75	-	0.63	0.25	0.59	1.94	1.31	4.40
4 3V 475 P	4.75	4.70	J-1	P1	1.75	-	0.63	0.25	0.59	1.94	1.31	5.10
4 3V 500 P	5.00	4.95	J-1	P1	1.75	-	0.63	0.25	0.59	1.94	1.31	5.80
4 3V 530 P	5.30	5.25	J-1	P1	1.75	-	0.63	0.25	0.59	1.94	1.31	6.50
4 3V 560 P	5.60	5.55	J-1	P1	1.75	-	0.63	0.25	0.59	1.94	1.31	8.10
4 3V 600 Q	6.00	5.95	J-1	Q1	2.69	-	0.75	0.28	0.16	2.50	1.75	9.00
4 3V 650 Q	6.50	6.45	J-2	Q1	2.69	0.08	0.75	0.28	0.08	2.50	1.75	11.10
4 3V 690 Q	6.90	6.85	J-2	Q1	2.69	0.08	0.75	0.28	0.08	2.50	1.75	12.90
4 3V 800 Q	8.00	7.95	J-2	Q1	2.69	0.08	0.75	0.28	0.08	2.50	1.75	13.10
4 3V 1060 Q	10.60	10.55	J-3	Q1	2.69	0.08	0.75	0.28	0.08	2.50	1.75	15.90
4 3V 1400 Q	14.00	13.95	J-3	Q1	2.69	0.08	0.75	0.28	0.08	2.50	1.75	25.40
4 3V 1900 R	19.00	18.95	J-3	R1	3.75	0.05	0.88	0.28	0.14	2.88	2.00	37.30
4 3V 2500 R	25.00	24.95	J-3	R1	3.75	0.05	0.88	0.28	0.14	2.88	2.00	60.00
4 3V 3350 R	33.50	33.45	J-3	R1	3.75	0.05	0.88	0.28	0.14	2.88	2.00	88.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings

1 = Solid

2 = Web

3 = Spoked



Type S

Type J

3V MST® Sheaves

5 Groove F = 2-5/16												
Part Number	OD	PD	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		3V Belt										
5 3V 475 P	4.75	4.70	J-2	P1	1.75	0.38	0.63	0.25	0.62	1.94	1.31	5.60
5 3V 500 P	5.00	4.95	J-2	P1	1.75	0.38	0.63	0.25	0.62	1.94	1.31	6.00
5 3V 530 P	5.30	5.25	J-2	P1	1.75	0.38	0.63	0.25	0.62	1.94	1.31	7.10
5 3V 560 P	5.60	5.55	J-2	P1	1.75	0.38	0.63	0.25	0.62	1.94	1.31	8.10
5 3V 600 Q	6.00	5.95	J-2	Q1	2.69	0.00	0.75	0.28	0.56	2.50	1.75	9.50
5 3V 650 Q	6.50	6.45	J-2	Q1	2.69	0.28	0.75	0.28	0.28	2.50	1.75	11.60
5 3V 690 Q	6.90	6.85	J-2	Q1	2.69	0.28	0.75	0.28	0.28	2.50	1.75	13.90
5 3V 800 Q	8.00	7.95	J-2	Q1	2.69	0.28	0.75	0.28	0.28	2.50	1.75	14.30
5 3V 1060 Q	10.60	10.55	J-3	Q1	2.69	0.28	0.75	0.28	0.28	2.50	1.75	17.50
5 3V 1400 Q	14.00	13.95	J-3	Q1	2.69	0.28	0.75	0.28	0.28	2.50	1.75	27.50
5 3V 1900 R	19.00	18.95	J-3	R1	3.75	0.16	0.88	0.28	0.16	2.88	2.00	40.90
5 3V 2500 R	25.00	24.95	J-3	R1	3.75	0.16	0.88	0.28	0.16	2.88	2.00	64.00
5 3V 3350 R	33.50	33.45	J-3	R1	3.75	0.16	0.88	0.28	0.16	2.88	2.00	92.00

5 Groove F = 2-5/16												
Part Number	OD	PD	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		3V Belt										
6 3V 475 Q	4.75	4.70	S-1	Q1	2.69	0.97	—	0.28	—	2.50	1.75	5.60
6 3V 500 Q	5.00	4.95	S-1	Q1	2.69	0.97	—	0.28	—	2.50	1.75	6.10
6 3V 530 Q	5.30	5.25	S-1	Q1	2.69	0.97	—	0.28	—	2.50	1.75	7.30
6 3V 560 Q	5.60	5.55	J-1	Q1	2.69	0.22	0.75	0.28	0.75	2.50	1.75	8.80
6 3V 600 Q	6.00	5.95	J-2	Q1	2.69	0.22	0.75	0.28	0.75	2.50	1.75	10.10
6 3V 650 Q	6.50	6.45	J-2	Q1	2.69	0.48	0.75	0.28	0.48	2.50	1.75	12.90
6 3V 690 Q	6.90	6.85	J-2	Q1	2.69	0.48	0.75	0.28	0.48	2.50	1.75	14.40
6 3V 800 Q	8.00	7.95	J-2	Q1	2.69	0.48	0.75	0.28	0.48	2.50	1.75	16.10
6 3V 1060 R	10.60	10.55	J-3	R1	3.75	0.36	0.88	0.28	0.36	2.88	2.00	22.40
6 3V 1400 R	14.00	13.95	J-3	R1	3.75	0.36	0.88	0.28	0.36	2.88	2.00	32.10
6 3V 1900 R	19.00	18.95	J-3	R1	3.75	0.36	0.88	0.28	0.36	2.88	2.00	42.80
6 3V 2500 R	25.00	24.95	J-3	R1	3.75	0.36	0.88	0.28	0.36	2.88	2.00	64.00
6 3V 3350 R	33.50	33.45	J-3	R1	3.75	0.36	0.88	0.28	0.36	2.88	2.00	99.00

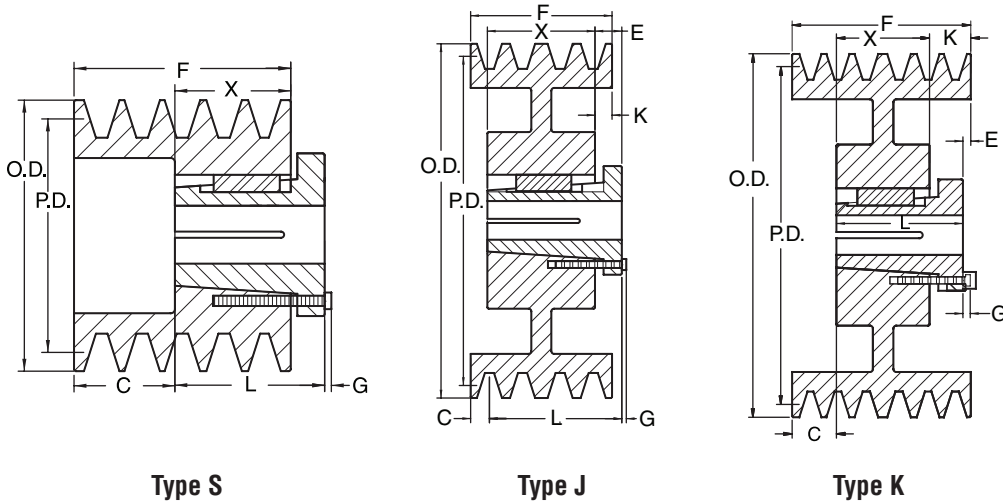
NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings

1 = Solid

2 = Web

3 = Spoked

3V Hi-Cap Wedge Stock MST® Sheaves



Type S

Type J

Type K

3V MST® Sheaves

8 Groove												
F = 3-17/32												
Part Number	OD	PD	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		3V Belt										
8 3V 475 Q	4.75	4.70	S-1	Q2	2.63	0.78	0.75	0.28	—	3.50	2.75	7.30
8 3V 500 Q	5.00	4.95	S-1	Q2	2.63	0.78	0.75	0.28	—	3.50	2.75	8.60
8 3V 530 Q	5.30	5.25	S-1	Q2	2.63	0.78	0.75	0.28	—	3.50	2.75	10.30
8 3V 560 Q	5.60	5.55	K-1	Q2	2.63	—	0.75	0.28	0.78	3.50	2.75	12.30
8 3V 600 Q	6.00	5.95	K-1	Q2	2.63	—	0.75	0.28	0.78	3.50	2.75	15.10
8 3V 650 Q	6.50	6.45	J-2	Q2	2.63	0.39	0.75	0.28	0.39	3.50	2.75	18.30
8 3V 690 Q	6.90	6.85	J-2	Q2	2.63	0.39	0.75	0.28	0.39	3.50	2.75	21.40
8 3V 800 R	8.00	7.95	J-2	R1	3.75	0.77	0.88	0.28	0.77	2.88	2.00	23.20
8 3V 1060 R	10.60	10.55	J-3	R1	3.75	0.77	0.88	0.28	0.77	2.88	2.00	24.50
8 3V 1400 R	14.00	13.95	J-3	R1	3.75	0.77	0.88	0.28	0.77	2.88	2.00	39.00
8 3V 1900 R	19.00	18.95	J-3	R1	3.75	0.77	0.88	0.28	0.77	2.88	2.00	49.00
8 3V 2500 R	25.00	24.95	J-3	R1	3.75	0.77	0.88	0.28	0.77	2.88	2.00	76.00
8 3V 3350 S	33.50	33.45	J-3	S1	4.25	0.11	1.06	0.38	0.11	4.38	3.31	126.00

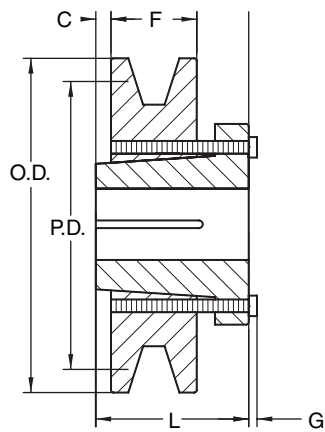
10 Groove												
F = 4-11/32												
Part Number	OD	PD	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		3V Belt										
10 3V 475 Q	4.75	4.70	S-1	Q2	2.63	1.59	0.75	0.28	—	3.50	2.75	8.40
10 3V 500 Q	5.00	4.95	S-1	Q2	2.63	1.59	0.75	0.28	—	3.50	2.75	9.90
10 3V 530 Q	5.30	5.25	S-1	Q2	2.63	1.59	0.75	0.28	—	3.50	2.75	11.40
10 3V 560 Q	5.60	5.55	J-2	Q2	2.63	0.84	0.75	0.28	0.75	3.50	2.75	13.80
10 3V 600 Q	6.00	5.95	J-2	Q2	2.63	0.84	0.75	0.28	0.75	3.50	2.75	16.50
10 3V 650 Q	6.50	6.45	K-2	Q2	2.63	0.80	0.75	0.28	0.80	3.50	2.75	20.40
10 3V 690 Q	6.90	6.85	K-2	Q2	2.63	0.80	0.75	0.28	0.80	3.50	2.75	23.40
10 3V 800 R	8.00	7.95	K-2	R1	3.75	1.17	0.88	0.28	1.17	2.88	2.00	26.00
10 3V 1060 R	10.60	10.55	K-3	R1	3.75	1.17	0.88	0.28	1.17	2.88	2.00	28.40
10 3V 1400 R	14.00	13.95	K-3	R1	3.75	1.17	0.88	0.28	1.17	2.88	2.00	42.30
10 3V 1900 R	19.00	18.95	K-3	R1	3.75	1.17	0.88	0.28	1.17	2.88	2.00	54.00
10 3V 2500 S	25.00	24.95	J-3	S1	4.25	0.52	1.06	0.38	0.52	4.38	3.31	103.00
10 3V 3350 S	33.50	33.45	J-3	S1	4.25	0.52	1.06	0.38	0.52	4.38	3.31	138.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings

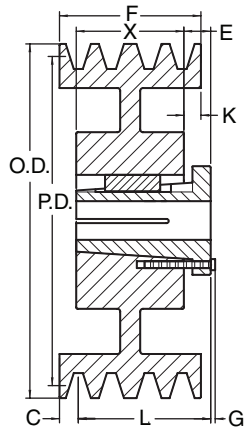
1 = Solid

2 = Web

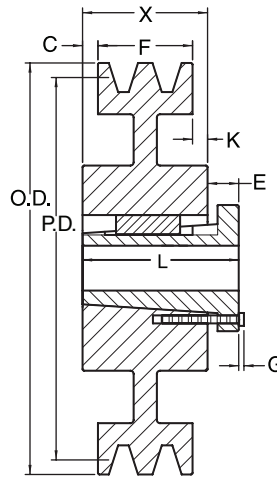
3 = Spoked



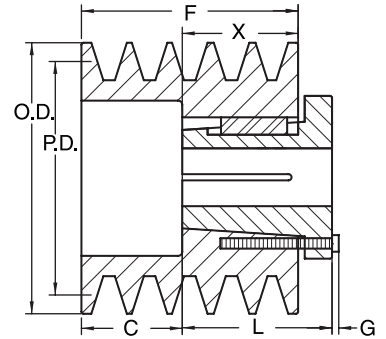
Type C



Type J



Type L



Type S

5V MST[®] Sheaves

2 Groove												
F = 1-11/16												
Part Number	OD	PD	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		5V Belt										
2 5V 440 P	4.40	4.30	J-1	P1	1.75	0.19	0.63	0.25	—	1.94	1.31	3.80
2 5V 460 Q	4.60	4.50	C-1	Q1	2.69	—	0.75	0.28	—	2.50	1.75	6.60
2 5V 490 Q	4.90	4.80	C-1	Q1	2.69	—	0.75	0.28	—	2.50	1.75	6.20
2 5V 520 Q	5.20	5.10	C-1	Q1	2.69	—	0.75	0.28	—	2.50	1.75	5.60
2 5V 550 Q	5.50	5.40	C-1	Q1	2.69	—	0.75	0.28	—	2.50	1.75	6.60
2 5V 590 Q	5.90	5.80	C-1	Q1	2.69	—	0.75	0.28	—	2.50	1.75	7.60
2 5V 630 Q	6.30	6.20	C-1	Q1	2.69	—	0.75	0.28	—	2.50	1.75	9.40
2 5V 670 Q	6.70	6.60	C-1	Q1	2.69	—	0.75	0.28	—	2.50	1.75	11.00
2 5V 710 Q	7.10	7.00	C-1	Q1	2.69	—	0.75	0.28	—	2.50	1.75	11.60
2 5V 750 Q	7.50	7.40	C-1	Q1	2.69	—	0.75	0.28	—	2.50	1.75	14.10
2 5V 800 Q	8.00	7.90	C-1	Q1	2.69	—	0.75	0.28	—	2.50	1.75	11.60
2 5V 850 Q	8.50	8.40	L-2	Q1	2.69	—	0.75	0.28	—	2.50	1.75	12.90
2 5V 900 Q	9.00	8.90	L-2	Q1	2.69	0.03	0.75	0.28	0.03	2.50	1.75	16.30
2 5V 925 Q	9.25	9.15	L-2	Q1	2.69	0.03	0.75	0.28	0.03	2.50	1.75	15.10
2 5V 975 Q	9.75	9.65	L-2	Q1	2.69	0.03	0.75	0.28	0.03	2.50	1.75	16.10
2 5V 1030 Q	10.30	10.20	L-2	Q1	2.69	0.03	0.75	0.28	0.03	2.50	1.75	18.80
2 5V 1090 Q	10.90	10.80	L-2	Q1	2.69	0.03	0.75	0.28	0.03	2.50	1.75	19.30
2 5V 1180 Q	11.80	11.70	L-2	Q1	2.69	0.03	0.75	0.28	0.03	2.50	1.75	21.40
2 5V 1250 Q	12.50	12.40	L-2	Q1	2.69	0.03	0.75	0.28	0.03	2.50	1.75	23.80
2 5V 1320 Q	13.20	13.10	L-2	Q1	2.69	0.03	0.75	0.28	0.03	2.50	1.75	25.50
2 5V 1400 R	14.00	13.90	L-3	R1	3.75	0.16	0.88	0.28	0.16	2.88	2.00	27.60
2 5V 1500 R	15.00	14.90	L-3	R1	3.75	0.16	0.88	0.28	0.16	2.88	2.00	30.90
2 5V 1600 R	16.00	15.90	L-3	R1	3.75	0.16	0.88	0.28	0.16	2.88	2.00	33.30
2 5V 2120 R	21.20	21.10	L-3	R1	3.75	0.16	0.88	0.28	0.16	2.88	2.00	47.50
2 5V 2800 R	28.00	27.90	L-3	R1	3.75	0.16	0.88	0.28	0.16	2.88	2.00	71.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings

1 = Solid

2 = Web

3 = Spoked

5V Hi-Cap Wedge Stock MST® Sheaves



5V MST® Sheaves

3 Groove F = 2-3/8												
Part Number	OD	PD	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		5V Belt										
3 5V 440 P	4.40	4.30	S-1	P1	1.75	0.53	0.63	0.25	0.53	1.94	1.31	3.10
3 5V 460 Q	4.60	4.50	S-1	Q1	2.69	1.78	0.75	0.28	1.16	2.50	1.75	7.60
3 5V 490 Q	4.90	4.80	S-1	Q1	2.69	0.63	0.75	0.28	0.00	2.50	1.75	7.30
3 5V 520 Q	5.20	5.10	J-1	Q1	2.69	0.63	0.75	0.28	0.00	2.50	1.75	5.80
3 5V 550 Q	5.50	5.40	J-1	Q1	2.69	0.63	0.75	0.28	0.00	2.50	1.75	7.50
3 5V 590 Q	5.90	5.80	J-1	Q1	2.69	0.19	0.75	0.28	0.44	2.50	1.75	8.60
3 5V 630 Q	6.30	6.20	J-1	Q1	2.69	0.19	0.75	0.28	0.44	2.50	1.75	10.30
3 5V 670 Q	6.70	6.60	J-2	Q1	2.69	0.19	0.75	0.28	0.44	2.50	1.75	12.00
3 5V 710 Q	7.10	7.00	J-2	Q1	2.69	0.19	0.75	0.28	0.44	2.50	1.75	13.90
3 5V 750 Q	7.50	7.40	J-2	Q1	2.69	0.19	0.75	0.28	0.44	2.50	1.75	16.00
3 5V 800 R	8.00	7.90	J-1	R1	3.75	0.19	0.88	0.28	0.19	2.88	2.00	17.20
3 5V 850 R	8.50	8.40	J-1	R1	3.75	0.19	0.88	0.28	0.19	2.88	2.00	20.50
3 5V 900 R	9.00	8.90	J-1	R1	3.75	0.19	0.88	0.28	0.19	2.88	2.00	22.20
3 5V 925 R	9.25	9.15	L-3	R1	3.75	0.19	0.88	0.28	0.19	2.88	2.00	24.10
3 5V 975 R	9.75	9.65	L-3	R1	3.75	0.19	0.88	0.28	0.19	2.88	2.00	24.80
3 5V 1030 R	10.30	10.20	J-2	R1	3.75	0.19	0.88	0.28	0.19	2.88	2.00	26.40
3 5V 1090 R	10.90	10.80	J-3	R1	3.75	0.19	0.88	0.28	0.19	2.88	2.00	28.00
3 5V 1180 R	11.80	11.70	J-3	R1	3.75	0.19	0.88	0.28	0.19	2.88	2.00	31.90
3 5V 1250 R	12.50	12.40	J-3	R1	3.75	0.19	0.88	0.28	0.19	2.88	2.00	35.10
3 5V 1320 R	13.20	13.10	J-3	R1	3.75	0.19	0.88	0.28	0.19	2.88	2.00	29.00
3 5V 1400 R	14.00	13.90	J-3	R1	3.75	0.19	0.88	0.28	0.19	2.88	2.00	32.30
3 5V 1500 R	15.00	14.90	J-3	R1	3.75	0.19	0.88	0.28	0.19	2.88	2.00	35.00
3 5V 1600 R	16.00	15.90	J-3	R1	3.75	0.19	0.88	0.28	0.19	2.88	2.00	38.70
3 5V 2120 R	21.20	21.10	J-3	R1	3.75	0.19	0.88	0.28	0.19	2.88	2.00	52.00
3 5V 2800 R	28.00	27.90	J-3	R1	3.75	0.19	0.88	0.28	0.19	2.88	2.00	80.00
3 5V 3750 S	37.50	37.40	L-3	S1	4.25	0.19	1.06	0.38	1.13	4.38	3.31	147.00
3 5V 5000 U	50.00	49.90	L-3	U0	5.50	0.69	1.19	0.47	2.06	4.94	3.75	216.00

4 Groove F = 3-1/16												
Part Number	OD	PD	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		5V Belt										
4 5V 440 P	4.40	4.30	S-1	P1	1.75	0.88	0.63	0.25	0.87	1.94	1.31	3.20
4 5V 465 Q	4.60	4.50	S-1	Q2	2.63	1.47	0.75	0.28	1.16	3.50	2.75	8.60
4 5V 490 Q	4.90	4.80	S-1	Q1	2.69	1.31	0.75	0.28	—	2.50	1.75	8.50
4 5V 520 Q	5.20	5.10	J-1	Q1	2.69	1.31	0.75	0.28	—	2.50	1.75	7.80
4 5V 550 Q	5.50	5.40	J-1	Q1	2.69	1.31	0.75	0.28	—	2.50	1.75	8.30
4 5V 590 Q	5.90	5.80	J-1	Q1	2.69	0.56	0.75	0.28	0.75	2.50	1.75	10.10
4 5V 630 Q	6.30	6.20	J-2	Q1	2.69	0.56	0.75	0.28	0.75	2.50	1.75	11.80
4 5V 670 Q	6.70	6.60	J-2	Q1	2.69	0.56	0.75	0.28	0.75	2.50	1.75	13.60
4 5V 710 Q	7.10	7.00	J-2	Q1	2.69	0.56	0.75	0.28	0.75	2.50	1.75	15.90
4 5V 750 Q	7.50	7.40	J-2	Q1	2.69	0.56	0.75	0.28	0.75	2.50	1.75	18.40
4 5V 800 R	8.00	7.90	J-1	R1	3.75	0.53	0.88	0.28	0.53	2.88	2.00	19.40
4 5V 850 R	8.50	8.40	J-1	R1	3.75	0.53	0.88	0.28	0.53	2.88	2.00	22.80
4 5V 900 R	9.00	8.90	J-2	R1	3.75	0.53	0.88	0.28	0.53	2.88	2.00	24.50
4 5V 925 R	9.25	9.15	J-2	R1	3.75	0.53	0.88	0.28	0.53	2.88	2.00	26.60
4 5V 975 R	9.75	9.65	J-2	R1	3.75	0.53	0.88	0.28	0.53	2.88	2.00	28.00
4 5V 1030 R	10.30	10.20	J-2	R1	3.75	0.53	0.88	0.28	0.53	2.88	2.00	30.80
4 5V 1090 R	10.90	10.80	J-2	R1	3.75	0.53	0.88	0.28	0.53	2.88	2.00	31.70
4 5V 1180 R	11.80	11.70	J-3	R1	3.75	0.53	0.88	0.28	0.53	2.88	2.00	35.30
4 5V 1250 R	12.50	12.40	J-3	R1	3.75	0.53	0.88	0.28	0.53	2.88	2.00	37.90
4 5V 1320 R	13.20	13.10	J-3	R1	3.75	0.53	0.88	0.28	0.53	2.88	2.00	33.30
4 5V 1400 R	14.00	13.90	J-3	R1	3.75	0.53	0.88	0.28	0.53	2.88	2.00	36.50
4 5V 1500 R	15.00	14.90	J-3	R1	3.75	0.53	0.88	0.28	0.53	2.88	2.00	40.90
4 5V 1600 R	16.00	15.90	J-3	R1	3.75	0.53	0.88	0.28	0.53	2.88	2.00	43.30
4 5V 2120 R	21.20	21.10	J-3	R1	3.75	0.53	0.88	0.28	0.53	2.88	2.00	59.00
4 5V 2800 S	28.00	27.90	L-3	S1	4.25	0.13	1.06	0.38	0.38	4.38	3.31	135.00
4 5V 3750 S	37.50	37.40	L-3	S1	4.25	0.13	1.06	0.38	0.38	4.38	3.31	157.00
4 5V 5000 Q	50.00	49.90	L-3	Q1	2.69	0.34	0.75	0.28	0.97	2.50	1.75	239.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings

1 = Solid

2 = Web

3 = Spoked



Hi-Cap Wedge Stock MST[®] Sheaves **5V**

5V MST[®] Sheaves

5 Groove F = 3-3/4												
Part Number	OD	PD	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		5V Belt										
5 5V 465 Q	4.60	4.50	S-1	Q2	2.63	2.31	0.75	0.28	1.31	3.50	2.75	8.90
5 5V 490 Q	4.90	4.80	S-1	Q2	2.63	1.00	0.75	0.28	0.00	3.50	2.75	9.20
5 5V 520 Q	5.20	5.10	J-1	Q2	2.63	1.00	0.75	0.28	0.00	3.50	2.75	9.00
5 5V 550 Q	5.50	5.40	J-1	Q2	2.63	1.00	0.75	0.28	0.00	3.50	2.75	10.80
5 5V 590 Q	5.90	5.80	J-1	Q2	2.63	0.25	0.75	0.28	0.75	3.50	2.75	13.20
5 5V 630 Q	6.30	6.20	J-2	Q2	2.63	0.25	0.75	0.28	0.75	3.50	2.75	15.90
5 5V 670 Q	6.70	6.60	J-2	Q2	2.63	0.25	0.75	0.28	0.75	3.50	2.75	18.60
5 5V 710 Q	7.10	7.00	K-1	Q2	2.63	0.25	0.75	0.28	0.75	3.50	2.75	22.00
5 5V 750 Q	7.50	7.40	K-1	Q2	2.63	0.25	0.75	0.28	0.75	3.50	2.75	25.00
5 5V 800 R	8.00	7.90	K-1	R1	3.75	0.88	0.88	0.28	0.88	2.88	2.00	21.70
5 5V 850 R	8.50	8.40	J-1	R1	3.75	0.88	0.88	0.28	0.88	2.88	2.00	25.10
5 5V 900 R	9.00	8.90	J-1	R1	3.75	0.88	0.88	0.28	0.88	2.88	2.00	25.40
5 5V 925 R	9.25	9.15	J-3	R1	3.75	0.88	0.88	0.28	0.88	2.88	2.00	28.40
5 5V 975 R	9.75	9.65	J-3	R1	3.75	0.88	0.88	0.28	0.88	2.88	2.00	31.80
5 5V 1030 R	10.30	10.20	J-2	R1	3.75	0.88	0.88	0.28	0.88	2.88	2.00	32.50
5 5V 1090 R	10.90	10.80	K-2	R1	3.75	0.88	0.88	0.28	0.88	2.88	2.00	35.10
5 5V 1180 R	11.80	11.70	J-2	R1	3.75	0.88	0.88	0.28	0.88	2.88	2.00	38.80
5 5V 1250 R	12.50	12.40	J-2	R1	3.75	0.88	0.88	0.28	0.88	2.88	2.00	41.80
5 5V 1320 R	13.20	13.10	K-3	R1	3.75	0.88	0.88	0.28	0.88	2.88	2.00	37.10
5 5V 1400 R	14.00	13.90	K-3	R1	3.75	0.88	0.88	0.28	0.88	2.88	2.00	41.60
5 5V 1500 R	15.00	14.90	K-3	R1	3.75	0.88	0.88	0.28	0.88	2.88	2.00	45.00
5 5V 1600 R	16.00	15.90	K-3	R1	3.75	0.88	0.88	0.28	0.88	2.88	2.00	48.00
5 5V 2120 S	21.20	21.10	J-3	S1	4.25	0.22	1.06	0.38	0.22	4.38	3.31	90.00
5 5V 2500 S	25.00	24.90	J-3	S1	4.25	0.22	1.06	0.38	0.22	4.38	3.31	105.00
5 5V 2800 S	28.00	27.90	J-3	S1	4.25	0.22	1.06	0.38	0.22	4.38	3.31	120.00
5 5V 3750 U	37.50	37.40	K-2	U0	5.50	0.00	1.19	0.47	0.00	4.94	3.75	185.00
5 5V 5000 U	50.00	49.90	J-1	U0	5.50	0.00	1.19	0.47	0.00	4.94	3.75	244.00

6 Groove F = 4-7/16												
Part Number	OD	PD	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		5V Belt										
6 5V 710 Q	7.10	7.00	J-2	Q2	2.63	0.44	0.28	0.75	1.25	3.50	2.75	23.60
6 5V 750 Q	7.50	7.40	J-2	Q2	2.63	0.44	0.28	0.75	1.25	3.50	2.75	27.30
6 5V 800 R	8.00	7.90	K-2	R1	3.75	1.22	0.28	0.88	1.22	2.88	2.00	23.30
6 5V 850 R	8.50	8.40	K-2	R1	3.75	1.22	0.28	0.88	1.22	2.88	2.00	27.30
6 5V 900 R	9.00	8.90	K-2	R1	3.75	1.22	0.28	0.88	1.22	2.88	2.00	28.80
6 5V 925 R	9.25	9.15	J-1	R1	3.75	1.22	0.28	0.88	1.22	2.88	2.00	31.10
6 5V 975 R	9.75	9.65	J-3	R1	3.75	1.22	0.28	0.88	1.22	2.88	2.00	34.50
6 5V 1030 R	10.30	10.20	K-2	R1	3.75	1.22	0.28	0.88	1.22	2.88	2.00	36.80
6 5V 1090 R	10.90	10.80	J-1	R1	3.75	1.22	0.28	0.88	1.22	2.88	2.00	39.60
6 5V 1180 R	11.80	11.70	J-1	R1	3.75	1.22	0.28	0.88	1.22	2.88	2.00	42.50
6 5V 1250 S	12.50	12.40	J-3	S1	4.25	0.56	0.38	1.06	0.56	4.38	3.31	65.00
6 5V 1320 S	13.20	13.10	J-3	S1	4.25	0.56	0.38	1.06	0.56	4.38	3.31	71.00
6 5V 1400 S	14.00	13.90	J-2	S1	4.25	0.56	0.38	1.06	0.56	4.38	3.31	70.00
6 5V 1500 S	15.00	14.90	J-3	S1	4.25	0.56	0.38	1.06	0.56	4.38	3.31	69.00
6 5V 1600 S	16.00	15.90	J-3	S1	4.25	0.56	0.38	1.06	0.56	4.38	3.31	79.00
6 5V 2120 S	21.20	21.10	J-3	S1	4.25	0.56	0.38	1.06	0.56	4.38	3.31	97.00
6 5V 2500 S	25.00	24.90	J-3	S1	4.25	0.56	0.38	1.06	0.56	4.38	3.31	113.00
6 5V 2800 S	28.00	27.90	J-3	S1	4.25	0.56	0.38	1.06	0.56	4.38	3.31	128.00
6 5V 3750 U	37.50	37.40	K-2	U0	5.50	0.34	0.47	1.19	0.34	4.94	3.75	206.00
6 5V 5000 U	50.00	49.90	K-2	U0	5.50	0.34	0.47	1.19	0.34	4.94	3.75	271.00

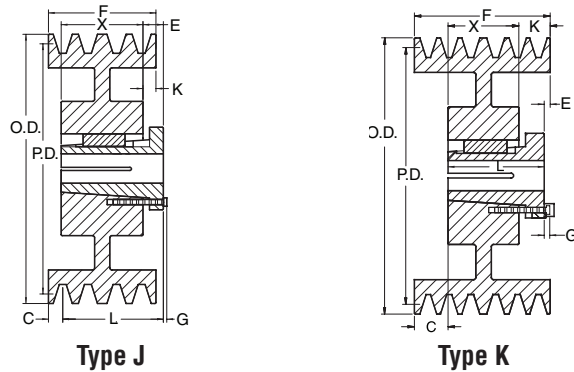
NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings

1 = Solid

2 = Web

3 = Spoked

5V Hi-Cap Wedge Stock MST® Sheaves



5V MST® Sheaves

8 Groove F = 5-13/16												
Part Number	OD	PD	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		5V Belt										
8 5V 710 Q	7.10	7.00	K-2	Q2	2.63	1.31	0.75	0.28	1.75	3.50	2.75	28.00
8 5V 750 Q	7.50	7.40	K-2	Q2	2.63	1.31	0.75	0.28	1.75	3.50	2.75	32.00
8 5V 800 R	8.00	7.90	K-2	R2	3.63	0.91	0.88	0.28	0.91	4.88	4.00	45.30
8 5V 850 R	8.50	8.40	K-2	R2	3.63	0.91	0.88	0.28	0.91	4.88	4.00	45.50
8 5V 900 R	9.00	8.90	K-2	R2	3.63	0.91	0.88	0.28	0.91	4.88	4.00	50.00
8 5V 925 S	9.25	9.15	K-2	S1	4.25	1.25	1.06	0.38	1.25	4.38	3.31	47.30
8 5V 975 S	9.75	9.65	K-2	S1	4.25	1.25	1.06	0.38	1.25	4.38	3.31	50.00
8 5V 1030 S	10.30	10.20	K-2	S1	4.25	1.25	1.06	0.38	1.25	4.38	3.31	63.00
8 5V 1090 S	10.90	10.80	K-2	S1	4.25	1.25	1.06	0.38	1.25	4.38	3.31	71.00
8 5V 1180 S	11.80	11.70	K-2	S1	4.25	1.25	1.06	0.38	1.25	4.38	3.31	85.00
8 5V 1250 S	12.50	12.40	K-3	S1	4.25	1.25	1.06	0.38	1.25	4.38	3.31	76.00
8 5V 1320 S	13.20	13.10	K-3	S1	4.25	1.25	1.06	0.38	1.25	4.38	3.31	79.00
8 5V 1400 S	14.00	13.90	K-3	S1	4.25	1.25	1.06	0.38	1.25	4.38	3.31	77.00
8 5V 1500 S	15.00	14.90	K-3	S1	4.25	1.25	1.06	0.38	1.25	4.38	3.31	83.00
8 5V 1600 S	16.00	15.90	K-3	S1	4.25	1.25	1.06	0.38	1.25	4.38	3.31	90.00
8 5V 2120 U	21.20	21.10	J-3	U1	5.50	0.09	1.50	0.47	0.09	7.13	5.63	175.00
8 5V 2500 U	25.00	24.90	J-3	U1	5.50	0.09	1.50	0.47	0.09	7.13	5.63	190.00
8 5V 2800 U	28.00	27.90	J-3	U1	5.50	0.09	1.50	0.47	0.09	7.13	5.63	222.00
8 5V 3750 U	37.50	37.40	J-3	U1	5.50	0.09	1.50	0.47	0.09	7.13	5.63	264.00
8 5V 5000 U	50.00	49.90	J-3	U1	5.50	0.09	1.50	0.47	0.09	7.13	5.63	393.00

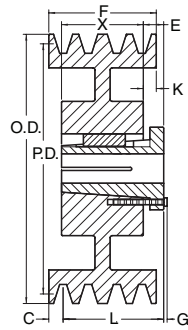
10 Groove F = 7-5/16												
Part Number	OD	PD	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		5V Belt										
10 5V 800 R	8.00	7.90	K-2	R2	3.63	1.59	0.88	0.28	1.59	4.88	4.00	43.80
10 5V 850 R	8.50	8.40	K-2	R2	3.63	1.59	0.88	0.28	1.59	4.88	4.00	53.00
10 5V 900 R	9.00	8.90	K-2	R2	3.63	1.59	0.88	0.28	1.59	4.88	4.00	59.00
10 5V 925 S	9.25	9.15	K-2	S1	4.25	1.94	1.06	0.38	1.94	4.38	3.31	53.00
10 5V 975 S	9.75	9.65	K-2	S1	4.25	1.94	1.06	0.38	1.94	4.38	3.31	60.00
10 5V 1030 S	10.30	10.20	K-2	S1	4.25	1.94	1.06	0.38	1.94	4.38	3.31	69.00
10 5V 1090 S	10.90	10.80	K-2	S1	4.25	1.94	1.06	0.38	1.94	4.38	3.31	78.00
10 5V 1180 S	11.80	11.70	J-2	S1	4.25	1.94	1.06	0.38	1.94	4.38	3.31	93.00
10 5V 1250 U	12.50	12.40	J-2	U1	5.50	0.78	1.50	0.47	0.78	7.13	5.63	132.00
10 5V 1320 U	13.20	13.10	J-2	U1	5.50	0.78	1.50	0.47	0.78	7.13	5.63	151.00
10 5V 1400 U	14.00	13.90	J-2	U1	5.50	0.78	1.50	0.47	0.78	7.13	5.63	177.00
10 5V 1500 U	15.00	14.90	J-2	U1	5.50	0.78	1.50	0.47	0.78	7.13	5.63	164.00
10 5V 1600 U	16.00	15.90	J-3	U1	5.50	0.78	1.50	0.47	0.78	7.13	5.63	138.00
10 5V 2120 U	21.20	21.10	J-3	U1	5.50	0.78	1.50	0.47	0.78	7.13	5.63	188.00
10 5V 2500 U	25.00	24.90	J-3	U1	5.50	0.78	1.50	0.47	0.78	7.13	5.63	213.00
10 5V 2800 U	28.00	27.90	J-3	U1	5.50	0.78	1.50	0.47	0.78	7.13	5.63	238.00
10 5V 3750 U	37.50	37.40	J-3	U1	5.50	0.78	1.50	0.47	0.78	7.13	5.63	293.00
10 5V 5000 U	50.00	49.90	J-3	U1	5.50	0.78	1.50	0.47	0.78	7.13	5.63	428.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings

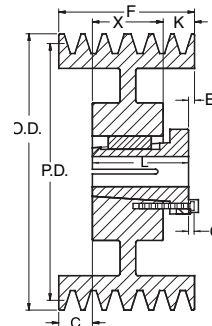
1 = Solid

2 = Web

3 = Spoked



Type J



Type K

8V MST[®] Sheaves

4 Groove F = 4-7/8												
Part Number	OD	PD	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		8V Belt										
4 8V 1250 S	12.50	12.30	K-2	S1	4.25	—	1.06	0.38	1.56	4.38	3.31	94.00
4 8V 1320 S	13.20	13.00	K-2	S1	4.25	—	1.06	0.38	1.56	4.38	3.31	99.00
4 8V 1400 S	14.00	13.80	K-2	S1	4.25	—	1.06	0.38	1.56	4.38	3.31	114.00
4 8V 1500 S	15.00	14.80	K-2	S1	4.25	—	1.06	0.38	1.56	4.38	3.31	107.00
4 8V 1600 S	16.00	15.80	K-2	S1	4.25	—	1.06	0.38	1.56	4.38	3.31	113.00
4 8V 1700 S	17.00	16.80	K-2	S1	4.25	—	1.06	0.38	1.56	4.38	3.31	115.00
4 8V 1800 S	18.00	17.80	K-2	S1	4.25	—	1.06	0.38	1.56	4.38	3.31	123.00
4 8V 1900 S	19.00	18.80	K-2	S1	4.25	—	1.06	0.38	1.56	4.38	3.31	132.00
4 8V 2000 S	20.00	19.80	K-2	S1	4.25	—	1.06	0.38	1.56	4.38	3.31	147.00
4 8V 2120 S	21.20	21.00	K-2	S1	4.25	—	1.06	0.38	1.56	4.38	3.31	159.00
4 8V 2240 U	22.40	22.20	J-3	U0	5.50	0.56	1.19	0.47	0.56	4.94	3.75	159.00
4 8V 3000 U	30.00	29.80	J-3	U0	5.50	0.56	1.19	0.47	0.56	4.94	3.75	218.00
4 8V 4000 U	40.00	39.80	J-3	U0	5.50	0.56	1.19	0.47	0.56	4.94	3.75	296.00
4 8V 4800 U	48.00	47.80	J-3	U0	5.50	0.56	1.19	0.47	0.56	4.94	3.75	405.00
4 8V 5300 U	53.00	52.80	J-3	U0	5.50	0.56	1.19	0.47	0.56	4.94	3.75	450.00
4 8V 5800 U	58.00	57.80	J-3	U0	5.50	0.56	1.19	0.47	0.56	4.94	3.75	495.00
4 8V 6400 U	64.00	63.80	J-3	U0	5.50	0.56	1.19	0.47	0.56	4.94	3.75	520.00

5 Groove F = 6												
Part Number	OD	PD	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		8V Belt										
5 8V 1250 S	12.50	12.30	K-2	S1	4.25	0.75	1.06	0.38	1.94	4.38	3.31	100.00
5 8V 1320 S	13.20	13.00	K-2	S1	4.25	0.75	1.06	0.38	1.94	4.38	3.31	109.00
5 8V 1400 S	14.00	13.80	K-2	S1	4.25	0.75	1.06	0.38	1.94	4.38	3.31	127.00
5 8V 1500 S	15.00	14.80	K-2	S1	4.25	0.75	1.06	0.38	1.94	4.38	3.31	120.00
5 8V 1600 S	16.00	15.80	K-2	S1	4.25	0.75	1.06	0.38	1.94	4.38	3.31	121.00
5 8V 1700 S	17.00	16.80	K-2	S1	4.25	0.75	1.06	0.38	1.94	4.38	3.31	133.00
5 8V 1800 S	18.00	17.80	K-2	S1	4.25	0.75	1.06	0.38	1.94	4.38	3.31	140.00
5 8V 1900 S	19.00	18.80	K-2	S1	4.25	0.75	1.06	0.38	1.94	4.38	3.31	158.00
5 8V 2000 S	20.00	19.80	K-2	S1	4.25	0.75	1.06	0.38	1.94	4.38	3.31	166.00
5 8V 2120 S	21.20	21.00	K-2	S1	4.25	0.75	1.06	0.38	1.94	4.38	3.31	174.00
5 8V 2240 U	22.40	22.20	J-3	U0	5.50	1.13	1.19	0.47	1.13	4.94	3.75	157.00
5 8V 3000 U	30.00	29.80	J-3	U0	5.50	1.13	1.19	0.47	1.13	4.94	3.75	243.00
5 8V 4000 U	40.00	39.80	J-3	U0	5.50	1.13	1.19	0.47	1.13	4.94	3.75	325.00
5 8V 4800 U	48.00	47.80	J-3	U0	5.50	1.13	1.19	0.47	1.13	4.94	3.75	440.00
5 8V 5300 U	53.00	52.80	J-3	U0	5.50	1.13	1.19	0.47	1.13	4.94	3.75	480.00
5 8V 5800 U	58.00	57.80	J-3	U0	5.50	1.13	1.19	0.47	1.13	4.94	3.75	525.00
5 8V 6400 U	64.00	63.80	J-3	U0	5.50	1.13	1.19	0.47	1.13	4.94	3.75	555.00

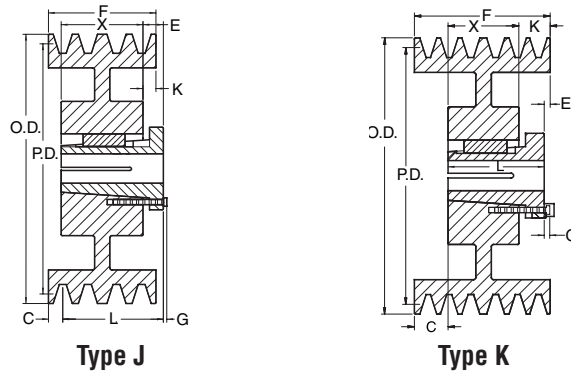
NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings

1 = Solid

2 = Web

3 = Spoked

8V Hi-Cap Wedge Stock MST® Sheaves



8V MST® Sheaves

6 Groove F = 7-1/8												
Part Number	OD	PD 8V Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
6 8V 1250 S	12.50	12.30	K-2	S1	4.25	0.75	1.06	0.38	3.06	4.38	3.31	109.00
6 8V 1320 S	13.20	13.00	K-2	S1	4.25	0.75	1.06	0.38	3.06	4.38	3.31	119.00
6 8V 1400 S	14.00	13.80	K-2	S1	4.25	0.75	1.06	0.38	3.06	4.38	3.31	135.00
6 8V 1500 S	15.00	14.80	K-2	S1	4.25	0.75	1.06	0.38	3.06	4.38	3.31	129.00
6 8V 1600 S	16.00	15.80	K-2	S1	4.25	0.75	1.06	0.38	3.06	4.38	3.31	133.00
6 8V 1700 S	17.00	16.80	K-2	S1	4.25	0.75	1.06	0.38	3.06	4.38	3.31	147.00
6 8V 1800 S	18.00	17.80	K-2	S1	4.25	0.75	1.06	0.38	3.06	4.38	3.31	154.00
6 8V 1900 S	19.00	18.80	K-2	S1	4.25	0.75	1.06	0.38	3.06	4.38	3.31	167.00
6 8V 2000 S	20.00	19.80	K-2	S1	4.25	0.75	1.06	0.38	3.06	4.38	3.31	178.00
6 8V 2120 S	21.20	21.00	K-2	S1	4.25	0.75	1.06	0.38	3.06	4.38	3.31	186.00
6 8V 2240 U	22.40	22.20	K-3	U0	5.50	1.69	1.19	0.47	1.69	4.94	3.75	195.00
6 8V 3000 U	30.00	29.80	K-3	U0	5.50	1.69	1.19	0.47	1.69	4.94	3.75	263.00
6 8V 4000 U	40.00	39.80	K-3	U0	5.50	1.69	1.19	0.47	1.69	4.94	3.75	363.00
6 8V 4800 U	48.00	47.80	K-3	U0	5.50	1.69	1.19	0.47	1.69	4.94	3.75	478.00
6 8V 5300 U	53.00	52.80	K-3	U0	5.50	1.69	1.19	0.47	1.69	4.94	3.75	510.00
6 8V 5800 U	58.00	57.80	K-3	U0	5.50	1.69	1.19	0.47	1.69	4.94	3.75	555.00
6 8V 6400 U	64.00	63.80	K-3	U0	5.50	1.69	1.19	0.47	1.69	4.94	3.75	585.00

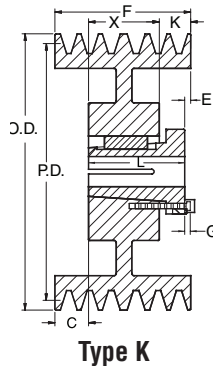
8 Groove F = 9-3/8												
Part Number	OD	PD 8V Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
8 8V 1250 S	12.50	12.30	K-3	S2	4.19	0.75	1.06	0.38	2.94	6.75	5.69	140.00
8 8V 1320 S	13.20	13.00	K-2	S2	4.19	0.75	1.06	0.38	2.94	6.75	5.69	176.00
8 8V 1400 S	14.00	13.80	K-2	S2	4.19	0.75	1.06	0.38	2.94	6.75	5.69	205.00
8 8V 1500 S	15.00	14.80	K-2	S2	4.19	0.75	1.06	0.38	2.94	6.75	5.69	186.00
8 8V 1600 S	16.00	15.80	K-2	S2	4.19	0.75	1.06	0.38	2.94	6.75	5.69	210.00
8 8V 1700 U	17.00	16.80	K-3	U1	5.50	1.00	1.50	0.47	2.75	7.13	5.63	248.00
8 8V 1800 U	18.00	17.80	K-2	U1	5.50	1.00	1.50	0.47	2.75	7.13	5.63	249.00
8 8V 1900 U	19.00	18.80	K-2	U1	5.50	1.00	1.50	0.47	2.75	7.13	5.63	235.00
8 8V 2000 U	20.00	19.80	K-2	U1	5.50	1.00	1.50	0.47	2.75	7.13	5.63	251.00
8 8V 2120 U	21.20	21.00	K-2	U1	5.50	1.00	1.50	0.47	2.75	7.13	5.63	268.00
8 8V 2240 U	22.40	22.20	K-2	U1	5.50	1.88	1.50	0.47	1.88	7.13	5.63	253.00
8 8V 3000 U	30.00	29.80	K-3	U1	5.50	1.88	1.50	0.47	1.88	7.13	5.63	358.00
8 8V 4000 W	40.00	39.80	K-3	W1	7.44	1.50	1.88	0.56	1.50	1.44	6.38	567.00
8 8V 4800 W	48.00	47.80	J-3	W1	7.44	1.50	1.88	0.56	1.50	1.44	6.38	715.00
8 8V 5300 W	53.00	52.80	J-3	W1	7.44	1.50	1.88	0.56	1.50	1.44	6.38	762.00
8 8V 5800 W	58.00	57.80	J-3	W1	7.44	1.50	1.88	0.56	1.50	1.44	6.38	914.00
8 8V 6400 W	64.00	63.80	J-3	W1	7.44	1.50	1.88	0.56	1.50	1.44	6.38	970.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings

1 = Solid

2 = Web

3 = Spoked



8V MST® Sheaves

10 Groove												
F = 11-5/8												
Part Number	OD	PD	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		8V Belt										
10 8V 1250 U	12.50	12.30	K-2	U1	5.50	1.00	1.50	0.47	5.00	7.13	5.63	156.00
10 8V 1320 U	13.20	13.00	K-2	U1	5.50	1.00	1.50	0.47	5.00	7.13	5.63	182.00
10 8V 1400 U	14.00	13.80	K-2	U1	5.50	1.00	1.50	0.47	5.00	7.13	5.63	207.00
10 8V 1500 U	15.00	14.80	K-2	U1	5.50	1.00	1.50	0.47	5.00	7.13	5.63	240.00
10 8V 1600 U	16.00	15.80	K-2	U1	5.50	1.00	1.50	0.47	5.00	7.13	5.63	283.00
10 8V 1700 U	17.00	16.80	K-2	U1	5.50	1.00	1.50	0.47	5.00	7.13	5.63	274.00
10 8V 1800 U	18.00	17.80	K-2	U1	5.50	1.00	1.50	0.47	5.00	7.13	5.63	282.00
10 8V 1900 U	19.00	18.80	K-2	U1	5.50	1.00	1.50	0.47	5.00	7.13	5.63	264.00
10 8V 2000 U	20.00	19.80	K-2	U1	5.50	1.00	1.50	0.47	5.00	7.13	5.63	279.00
10 8V 2120 U	21.20	21.00	K-2	U1	5.50	1.00	1.50	0.47	5.00	7.13	5.63	296.00
10 8V 2240 U	22.40	22.20	K-3	U1	5.50	3.00	1.50	0.47	3.00	7.13	5.63	309.00
10 8V 3000 U	30.00	29.80	K-3	U1	5.50	3.00	1.50	0.47	3.00	7.13	5.63	410.00
10 8V 4000 W	40.00	39.80	K-3	W1	7.44	2.63	1.88	0.56	2.63	1.44	6.38	625.00
10 8V 4800 W	48.00	47.80	K-3	W1	7.44	2.63	1.88	0.56	2.63	1.44	6.38	811.00
10 8V 5300 W	53.00	52.80	K-3	W1	7.44	2.63	1.88	0.56	2.63	1.44	6.38	955.00
10 8V 5800 W	58.00	57.80	K-3	W1	7.44	2.63	1.88	0.56	2.63	1.44	6.38	1060.00
10 8V 6400 W	64.00	63.80	K-3	W1	7.44	2.63	1.88	0.56	2.63	1.44	6.38	1170.00

12 Groove												
F = 13-7/8												
Part Number	OD	PD	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		8V Belt										
12 8V 1250 U	12.50	12.30	K-2	U2	5.00	1.00	1.50	0.47	4.25	1.06	8.63	200.00
12 8V 1320 U	13.20	13.00	K-2	U2	5.00	1.00	1.50	0.47	4.25	1.06	8.63	243.00
12 8V 1400 U	14.00	13.80	K-2	U2	5.00	1.00	1.50	0.47	4.25	1.06	8.63	282.00
12 8V 1500 U	15.00	14.80	K-2	U2	5.00	1.00	1.50	0.47	4.25	1.06	8.63	331.00
12 8V 1600 U	16.00	15.80	K-2	U2	5.00	1.00	1.50	0.47	4.25	1.06	8.63	387.00
12 8V 1700 U	17.00	16.80	K-2	U2	5.00	1.00	1.50	0.47	4.25	1.06	8.63	395.00
12 8V 1800 U	18.00	17.80	K-2	U2	5.00	1.00	1.50	0.47	4.25	1.06	8.63	408.00
12 8V 1900 U	19.00	18.80	K-2	U2	5.00	1.00	1.50	0.47	4.25	1.06	8.63	435.00
12 8V 2000 U	20.00	19.80	K-2	U2	5.00	1.00	1.50	0.47	4.25	1.06	8.63	428.00
12 8V 2120 U	21.20	21.00	K-2	U2	5.00	1.00	1.50	0.47	4.25	1.06	8.63	450.00
12 8V 2240 U	22.40	22.20	K-3	U2	5.00	2.63	1.50	0.47	2.63	1.06	8.63	421.00
12 8V 3000 U	30.00	29.80	K-3	U2	5.00	2.63	1.50	0.47	2.63	1.06	8.63	509.00
12 8V 4000 W	40.00	39.80	K-3	W2	7.44	2.25	1.88	0.56	11.63	11.25	0.00	764.00
12 8V 4800 W	48.00	47.80	K-3	W2	7.44	2.25	1.88	0.56	11.63	11.25	0.00	1000.00
12 8V 5300 W	53.00	52.80	K-3	W2	7.44	2.25	1.88	0.56	11.63	11.25	0.00	1160.00
12 8V 5800 W	58.00	57.80	K-3	W2	7.44	2.25	1.88	0.56	11.63	11.25	0.00	1330.00
12 8V 6400 W	64.00	63.80	K-3	W2	7.44	2.25	1.88	0.56	11.63	11.25	0.00	1460.00

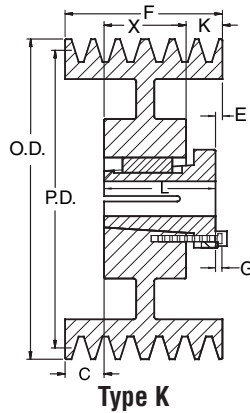
NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings

1 = Solid

2 = Web

3 = Spoked

8V Hi-Cap Wedge Stock MST® Sheaves



8V MST® Sheaves

14 Groove F = 16-1/8												
Part Number	OD	PD	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		8V Belt										
14 8V 1250 U	12.50	12.30	K-2	U2	5.00	1.00	1.50	0.47	6.50	1.06	8.63	220.00
14 8V 1320 U	13.20	13.00	K-2	U2	5.00	1.00	1.50	0.47	6.50	1.06	8.63	261.00
14 8V 1400 U	14.00	13.80	K-2	U2	5.00	1.00	1.50	0.47	6.50	1.06	8.63	300.00
14 8V 1500 U	15.00	14.80	K-2	U2	5.00	1.00	1.50	0.47	6.50	1.06	8.63	370.00
14 8V 1600 U	16.00	15.80	K-2	U2	5.00	1.00	1.50	0.47	6.50	1.06	8.63	415.00
14 8V 1700 U	17.00	16.80	K-2	U2	5.00	1.00	1.50	0.47	6.50	1.06	8.63	440.00
14 8V 1800 U	18.00	17.80	K-2	U2	5.00	1.00	1.50	0.47	6.50	1.06	8.63	450.00
14 8V 1900 U	19.00	18.80	K-2	U2	5.00	1.00	1.50	0.47	6.50	1.06	8.63	470.00
14 8V 2000 U	20.00	19.80	K-2	U2	5.00	1.00	1.50	0.47	6.50	1.06	8.63	490.00
14 8V 2120 U	21.20	21.00	K-2	U2	5.00	1.00	1.50	0.47	6.50	1.06	8.63	510.00
14 8V 2240 U	22.40	22.20	K-3	U2	5.00	3.75	1.50	0.47	3.75	1.06	8.63	459.00
14 8V 3000 U	30.00	29.80	K-3	U2	5.00	3.75	1.50	0.47	3.75	1.06	8.63	710.00
14 8V 4000 W	40.00	39.80	K-3	W2	7.44	3.38	1.88	0.56	12.75	11.25	0.00	840.00
14 8V 4800 W	48.00	47.80	K-3	W2	7.44	3.38	1.88	0.56	12.75	11.25	0.00	1140.00
14 8V 5300 W	53.00	52.80	K-3	W2	7.44	3.38	1.88	0.56	12.75	11.25	0.00	1234.00
14 8V 5800 W	58.00	57.80	K-3	W2	7.44	3.38	1.88	0.56	12.75	11.25	0.00	1450.00
14 8V 6400 W	64.00	63.80	K-3	W2	7.44	3.38	1.88	0.56	12.75	11.25	0.00	1550.00

16 Groove F = 18-3/8												
Part Number	OD	PD	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		8V Belt										
16 8V 1250 U	12.50	12.30	K-2	U2	5.00	1.00	1.50	0.47	8.75	1.06	8.63	270.00
16 8V 1320 U	13.20	13.00	K-2	U2	5.00	1.00	1.50	0.47	8.75	1.06	8.63	280.00
16 8V 1400 U	14.00	13.80	K-2	U2	5.00	1.00	1.50	0.47	8.75	1.06	8.63	323.00
16 8V 1500 U	15.00	14.80	K-2	U2	5.00	1.00	1.50	0.47	8.75	1.06	8.63	430.00
16 8V 1600 U	16.00	15.80	K-2	U2	5.00	1.00	1.50	0.47	8.75	1.06	8.63	445.00
16 8V 1700 U	17.00	16.80	K-2	U2	5.00	1.00	1.50	0.47	8.75	1.06	8.63	447.00
16 8V 1800 U	18.00	17.80	K-2	U2	5.00	1.00	1.50	0.47	8.75	1.06	8.63	480.00
16 8V 1900 U	19.00	18.80	K-2	U2	5.00	1.00	1.50	0.47	8.75	1.06	8.63	494.00
16 8V 2000 U	20.00	19.80	K-2	U2	5.00	1.00	1.50	0.47	8.75	1.06	8.63	520.00
16 8V 2120 U	21.20	21.00	K-2	U2	5.00	1.00	1.50	0.47	8.75	1.06	8.63	538.00
16 8V 2240 U	22.40	22.20	K-3	U2	5.00	4.88	1.50	0.47	4.88	1.06	8.63	522.00
16 8V 3000 W	30.00	29.80	K-3	W2	7.44	4.50	1.88	0.56	13.88	11.25	0.00	990.00
16 8V 4000 W	40.00	39.80	K-3	W2	7.44	4.50	1.88	0.56	13.88	11.25	0.00	871.00
16 8V 4800 W	48.00	47.80	K-3	W2	7.44	4.50	1.88	0.56	13.88	11.25	0.00	1360.00
16 8V 5300 W	53.00	52.80	K-3	W2	7.44	4.50	1.88	0.56	13.88	11.25	0.00	1490.00
16 8V 5800 W	58.00	57.80	K-3	W2	7.44	4.50	1.88	0.56	13.88	11.25	0.00	1620.00
16 8V 6400 W	64.00	63.80	K-3	W2	7.44	4.50	1.88	0.56	13.88	11.25	0.00	1790.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings

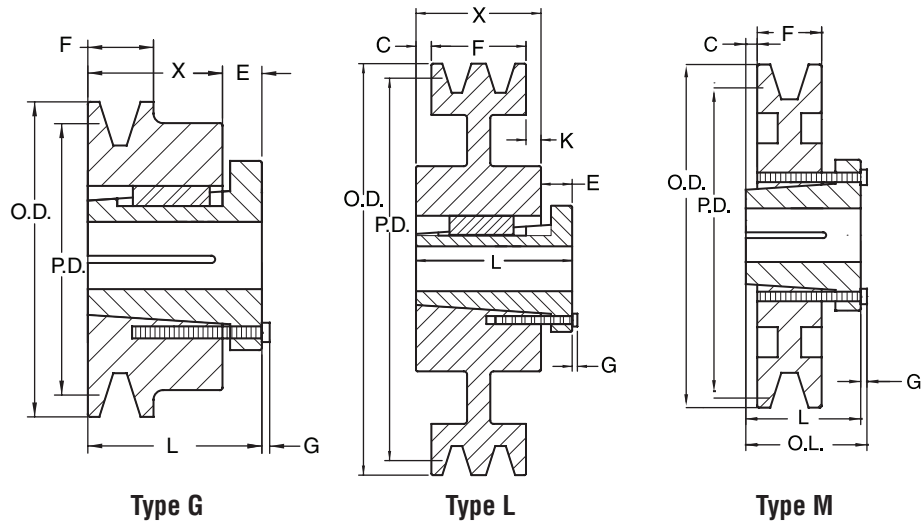
1 = Solid

2 = Web

3 = Spoked



Combination Groove Conventional MST® Bushed Stock Sheaves **A-B**



A-B MST® Sheaves

1 Groove													
F = 1													
Part Number	OD	PD		Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		A Belt	B Belt										
1 B 34 P	3.75	3.00	3.40	G-1	P1	1.75	0.13	0.63	0.25	0.44	1.94	1.31	2.00
1 B 36 P	3.95	3.20	3.60	G-1	P1	1.75	0.13	0.63	0.25	0.44	1.94	1.31	2.30
1 B 38 P	4.15	3.40	3.80	G-1	P1	1.75	0.13	0.63	0.25	0.44	1.94	1.31	2.60
1 B 40 P	4.35	3.60	4.00	M-1	P1	1.75	0.31	-	0.25	0.63	1.94	1.31	2.10
1 B 42 P	4.55	3.80	4.20	M-1	P1	1.75	0.31	-	0.25	0.63	1.94	1.31	2.40
1 B 44 P	4.75	4.00	4.40	M-1	P1	1.75	0.31	-	0.25	0.63	1.94	1.31	2.80
1 B 46 P	4.95	4.20	4.60	M-1	P1	1.75	0.31	-	0.25	0.63	1.94	1.31	3.10
1 B 48 P	5.15	4.40	4.80	M-1	P1	1.75	0.31	-	0.25	0.66	1.94	1.31	3.50
1 B 50 P	5.35	4.60	5.00	M-1	P1	1.75	0.31	-	0.25	0.63	1.94	1.31	3.90
1 B 52 P	5.55	4.80	5.20	M-1	P1	1.75	0.31	-	0.25	0.63	1.94	1.31	4.10
1 B 54 P	5.75	5.00	5.40	M-1	P1	1.75	0.31	-	0.25	0.63	1.94	1.31	4.60
1 B 56 P	5.95	5.20	5.60	M-1	P1	1.75	0.31	-	0.25	0.63	1.94	1.31	5.10
1 B 58 P	6.15	5.40	5.80	M-1	P1	1.75	0.31	-	0.25	0.65	1.94	1.31	5.60
1 B 60 P	6.35	5.60	6.00	M-1	P1	1.75	0.31	-	0.25	0.63	1.94	1.31	6.00
1 B 62 P	6.55	5.80	6.20	M-2	P1	1.75	0.31	-	0.25	0.63	1.94	1.31	5.50
1 B 64 P	6.75	6.00	6.40	M-1	P1	1.75	0.31	-	0.25	0.63	1.94	1.31	5.80
1 B 66 P	6.95	6.20	6.60	M-1	P1	1.75	0.31	-	0.25	0.63	1.94	1.31	5.90
1 B 68 P	7.15	6.40	6.80	M-1	P1	1.75	0.31	-	0.25	0.63	1.94	1.31	6.10
1 B 70 P	7.35	6.60	7.00	L-1	P1	1.75	0.16	0.63	0.25	0.47	1.94	1.31	6.40
1 B 74 P	7.75	7.00	7.40	L-2	P1	1.75	0.16	0.63	0.25	0.47	1.94	1.31	7.30
1 B 80 P	8.35	7.60	8.00	L-2	P1	1.75	0.16	0.63	0.25	0.47	1.94	1.31	7.80
1 B 86 P	8.95	8.20	8.60	L-2	P1	1.75	0.16	0.63	0.25	0.47	1.94	1.31	8.60
1 B 90 P	9.35	8.60	9.00	L-2	P1	1.75	0.16	0.63	0.25	0.47	1.94	1.31	8.90
1 B 94 P	9.75	9.00	9.40	L-3	P1	1.75	0.16	0.63	0.25	0.47	1.94	1.31	9.10
1 B 110 P	11.35	10.60	11.00	L-2	P1	1.75	0.16	0.63	0.25	0.47	1.94	1.31	11.10
1 B 124 Q	12.75	12.00	12.40	L-3	Q1	2.69	0.38	0.75	0.28	1.13	2.50	1.75	17.80
1 B 136 Q	13.95	13.20	13.60	L-3	Q1	2.69	0.38	0.75	0.28	1.13	2.50	1.75	18.20
1 B 154 Q	15.75	15.00	15.40	L-3	Q1	2.69	0.38	0.75	0.28	1.13	2.50	1.75	20.30
1 B 160 Q	16.35	15.60	16.00	L-3	Q1	2.69	0.38	0.75	0.28	1.13	2.50	1.75	22.00
1 B 184 Q	18.75	18.00	18.40	L-3	Q1	2.69	0.38	0.75	0.28	1.13	2.50	1.75	27.50
1 B 200 Q	20.35	19.50	20.00	L-3	Q1	2.69	0.38	0.75	0.28	1.13	2.50	1.75	27.20
1 B 250 Q	25.35	24.50	25.00	L-3	Q1	2.69	0.38	0.75	0.28	1.13	2.50	1.75	42.40
1 B 300 Q	30.35	29.50	30.00	L-3	Q1	2.69	0.38	0.75	0.28	1.13	2.50	1.75	56.00
1 B 380 Q	38.35	37.50	38.00	L-3	Q1	2.69	0.38	0.75	0.28	1.13	2.50	1.75	78.00

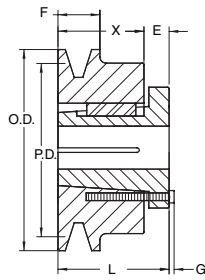
NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings

1 = Solid

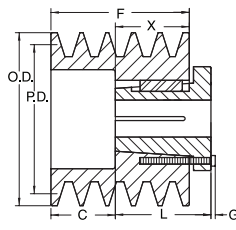
2 = Web

3 = Spoked

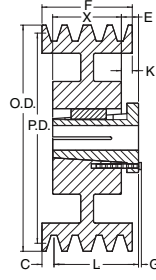
A-B Combination Groove Conventional MST® Bushed Stock Sheaves



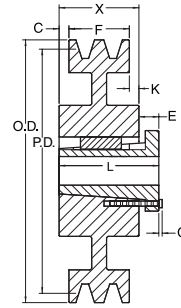
Type G



Type S



Type J



Type L

A-B MST® Sheaves

2 Groove F = 1-3/4													
Part Number	OD	PD		Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		A Belt	B Belt										
2 B 34 P	3.75	3.00	3.40	G-1	P1	1.75	0.88	0.63	0.25	1.31	1.31	2.19	2.90
2 B 36 P	3.95	3.20	3.60	G-1	P1	1.75	0.88	0.63	0.25	1.31	1.94	2.19	3.80
2 B 38 P	4.15	3.40	3.80	S-1	P1	1.75	0.44	-	0.25	-	1.31	1.31	3.00
2 B 40 P	4.35	3.60	4.00	S-1	P1	1.75	0.44	-	0.25	-	1.31	1.31	3.80
2 B 42 P	4.55	3.80	4.20	S-1	P1	1.75	0.44	-	0.25	-	1.94	1.31	3.90
2 B 44 P	4.75	4.00	4.40	J-1	P1	1.75	-	0.63	0.25	0.44	1.31	1.31	3.90
2 B 46 P	4.95	4.20	4.60	J-1	P1	1.75	-	0.63	0.25	0.44	1.31	1.31	4.50
2 B 48 P	5.15	4.40	4.80	J-1	P1	1.75	-	0.63	0.25	0.44	1.94	1.31	5.30
2 B 50 P	5.35	4.60	5.00	J-1	P1	1.75	-	0.63	0.25	0.44	1.31	1.31	5.60
2 B 52 P	5.55	4.80	5.20	J-1	P1	1.75	-	0.63	0.25	0.44	1.94	1.31	6.10
2 B 54 P	5.75	5.00	5.40	J-1	P1	1.75	-	0.63	0.25	0.44	1.31	1.31	6.50
2 B 54 Q	5.75	5.00	5.40	S-1	Q1	2.69	-	0.63	0.28	-	2.50	1.75	6.00
2 B 56 P	5.95	5.20	5.60	J-1	P1	1.75	-	0.63	0.25	0.44	1.31	1.31	7.40
2 B 56 Q	5.95	5.20	5.60	S-1	Q1	2.69	-	0.63	0.28	-	2.50	1.75	7.30
2 B 58 P	6.15	5.40	5.80	J-1	P1	1.75	-	0.63	0.25	0.44	1.31	1.31	8.00
2 B 58 Q	6.15	5.40	5.80	S-1	Q1	2.69	-	0.63	0.28	-	2.50	1.75	7.90
2 B 60 P	6.35	5.60	6.00	J-1	P1	1.75	-	0.63	0.25	0.44	1.31	1.31	8.90
2 B 60 Q	6.35	5.60	6.00	S-1	Q1	2.69	-	0.63	0.28	-	2.50	1.75	8.90
2 B 62 P	6.55	5.80	6.20	J-2	P1	1.75	-	0.63	0.25	0.44	1.31	1.31	7.60
2 B 62 Q	6.55	5.80	6.20	S-1	Q1	2.69	-	0.63	0.28	-	2.50	1.75	9.40
2 B 64 P	6.75	6.00	6.40	J-2	P1	1.75	-	0.63	0.25	0.44	1.31	1.31	7.80
2 B 64 Q	6.75	6.00	6.40	S-1	Q1	2.69	-	0.63	0.28	-	2.50	1.75	10.10
2 B 66 P	6.95	6.20	6.60	J-2	P1	1.75	-	0.63	0.25	0.44	1.31	1.31	8.30
2 B 66 Q	6.95	6.20	6.60	S-1	Q1	2.69	-	0.63	0.28	-	2.50	1.75	11.10
2 B 68 P	7.15	6.40	6.80	J-2	P1	1.75	-	0.63	0.25	0.44	1.31	1.31	8.80
2 B 68 Q	7.15	6.40	6.80	S-1	Q1	2.69	-	0.63	0.28	-	2.50	1.75	12.30
2 B 70 Q	7.35	6.60	7.00	J-2	Q1	2.69	-	0.75	0.28	-	1.75	1.75	11.10
2 B 74 Q	7.75	7.00	7.40	J-2	Q1	2.69	-	0.75	0.28	-	2.50	1.75	11.50
2 B 80 Q	8.35	7.60	8.00	J-2	Q1	2.69	-	0.75	0.28	-	1.75	1.75	12.80
2 B 86 Q	8.95	8.20	8.60	J-2	Q1	2.69	-	0.75	0.28	-	2.50	1.75	16.00
2 B 90 Q	9.35	8.60	9.00	J-3	Q1	2.69	-	0.75	0.28	-	1.75	1.75	15.10
2 B 94 Q	9.75	9.00	9.40	J-3	Q1	2.69	-	0.75	0.28	-	2.50	1.75	15.50
2 B 110 Q	11.35	10.60	11.00	J-3	Q1	2.69	-	0.75	0.28	-	1.75	1.75	18.90
2 B 124 Q	12.75	12.00	12.40	J-3	Q1	2.69	-	0.75	0.28	-	1.75	1.75	21.10
2 B 136 Q	13.95	13.20	13.60	J-3	Q1	2.69	-	0.75	0.28	-	2.50	1.75	23.00
2 B 154 Q	15.75	15.00	15.40	J-3	Q1	2.69	-	0.75	0.28	-	1.75	1.75	24.80
2 B 154 R	15.75	15.00	15.40	L-3	R1	3.75	0.13	0.75	0.28	0.25	2.88	2.00	30.60
2 B 160 Q	16.35	15.60	16.00	J-3	Q1	2.69	-	0.75	0.28	-	1.75	1.75	27.00
2 B 160 R	16.35	15.60	16.00	L-3	R1	3.75	0.13	0.75	0.28	0.25	2.88	2.00	32.00
2 B 184 Q	18.75	18.00	18.40	J-3	Q1	2.69	-	0.75	0.28	-	1.75	1.75	32.30
2 B 184 R	18.75	18.00	18.40	L-3	R1	3.75	0.13	0.75	0.28	0.38	2.88	2.00	39.10
2 B 200 Q	20.35	19.50	20.00	J-3	Q1	2.69	-	0.75	0.28	-	1.75	1.75	42.30
2 B 200 R	20.35	19.50	20.00	L-3	R1	3.75	0.13	0.75	0.28	0.25	2.88	2.00	43.50
2 B 250 Q	25.35	24.50	25.00	J-3	Q1	2.69	-	0.75	0.28	-	1.75	1.75	50.30
2 B 250 R	25.35	24.50	25.00	L-3	R1	3.75	0.13	0.75	0.28	0.25	2.88	2.00	58.00
2 B 300 Q	30.35	29.50	30.00	J-3	Q1	2.69	-	0.75	0.28	-	1.75	1.75	68.80
2 B 300 R	30.35	29.50	30.00	L-3	R1	3.75	0.13	0.75	0.28	0.25	2.88	2.00	81.00
2 B 380 Q	38.35	37.50	38.00	J-3	Q1	2.69	-	0.75	0.28	-	1.75	1.75	95.50
2 B 380 R	38.35	37.50	38.00	L-3	R1	3.75	0.13	0.75	0.28	0.25	2.88	2.00	92.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings

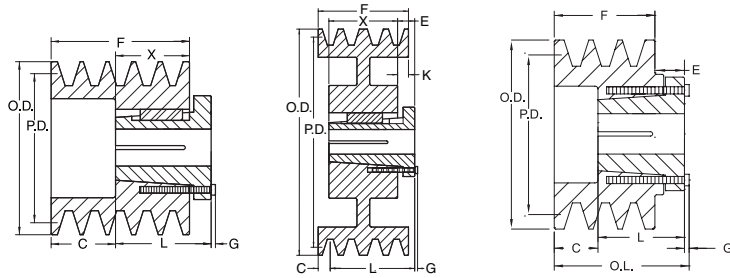
1 = Solid

2 = Web

3 = Spoked



Combination Groove Conventional MST® Bushed Stock Sheaves **A-B**



Type S

Type J

Type N

A-B MST® Sheaves

3 Groove F = 2-1/2													
Part Number	OD	PD		Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		A Belt	B Belt										
3 B 34 P	3.75	3.00	3.40	G-1	P2	1.75	0.63	0.63	0.25	0.44	2.94	2.31	3.80
3 B 36 P	3.95	3.20	3.60	N-1	P2	1.75	0.63	0.63	0.25	0.44	2.31	2.31	4.40
3 B 38 P	4.15	3.40	3.80	S-1	P1	1.75	1.19	—	0.25	—	1.94	1.31	3.80
3 B 40 P	4.35	3.60	4.00	S-1	P1	1.75	1.19	—	0.25	—	1.94	1.31	4.50
3 B 42 P	4.55	3.80	4.20	S-1	P1	1.75	1.19	—	0.25	—	1.31	1.31	4.90
3 B 44 P	4.75	4.00	4.40	J-1	P1	1.75	0.56	0.63	0.25	0.63	1.94	1.31	5.10
3 B 46 P	4.95	4.20	4.60	J-2	P1	1.75	0.56	0.63	0.25	0.63	1.31	1.31	6.00
3 B 48 P	5.15	4.40	4.80	J-2	P1	1.75	0.56	0.63	0.25	0.63	1.94	1.31	6.30
3 B 50 P	5.35	4.60	5.00	J-2	P1	1.75	0.56	0.63	0.25	0.63	1.31	1.31	6.90
3 B 52 P	5.55	4.80	5.20	J-2	P1	1.75	0.56	0.63	0.25	0.63	1.94	1.31	7.50
3 B 54 P	5.75	5.00	5.40	J-2	P1	1.75	0.56	0.63	0.25	0.63	1.31	1.31	8.30
3 B 54 Q	5.75	5.00	5.40	S-1	Q1	2.69	0.56	0.63	0.28	0.19	2.50	1.75	7.90
3 B 56 P	5.95	5.20	5.60	J-2	P1	1.75	0.56	0.63	0.25	0.63	1.31	1.31	9.00
3 B 56 Q	5.95	5.20	5.60	S-1	Q1	2.69	0.75	0.63	0.28	—	2.50	1.75	9.00
3 B 58 P	6.15	5.40	5.80	J-2	P1	1.75	0.56	0.63	0.25	0.63	1.31	1.31	9.60
3 B 58 Q	6.15	5.40	5.80	J-2	Q1	2.69	0.56	0.63	0.28	0.19	2.50	1.75	9.40
3 B 60 P	6.35	5.60	6.00	J-2	P1	1.75	0.56	0.63	0.25	0.63	1.31	1.31	10.50
3 B 60 Q	6.35	5.60	6.00	J-2	Q1	2.69	0.38	0.63	0.28	0.38	2.50	1.75	10.40
3 B 62 P	6.55	5.80	6.20	J-2	P1	1.75	0.56	0.63	0.25	0.63	1.31	1.31	9.40
3 B 62 Q	6.55	5.80	6.20	J-2	Q1	2.69	0.56	0.63	0.28	0.19	2.50	1.75	11.30
3 B 64 P	6.75	6.00	6.40	J-2	P1	1.75	0.56	0.63	0.25	0.63	1.31	1.31	9.50
3 B 64 Q	6.75	6.00	6.40	J-2	Q1	2.69	0.38	0.63	0.28	0.38	2.50	1.75	12.10
3 B 66 P	6.95	6.20	6.60	J-2	P1	1.75	0.56	0.63	0.25	0.63	1.31	1.31	10.00
3 B 66 Q	6.95	6.20	6.60	J-2	Q1	2.69	0.56	0.63	0.28	0.19	2.50	1.75	13.00
3 B 68 P	7.15	6.40	6.80	J-2	P1	1.75	0.56	0.63	0.25	0.63	1.31	1.31	10.40
3 B 68 Q	7.15	6.40	6.80	J-2	Q1	2.69	0.56	0.63	0.28	0.19	2.50	1.75	14.30
3 B 70 Q	7.35	6.60	7.00	J-2	Q1	2.69	0.38	0.75	0.28	0.38	1.75	1.75	13.00
3 B 74 Q	7.75	7.00	7.40	J-2	Q1	2.69	0.38	0.75	0.28	0.38	2.50	1.75	0.00
3 B 80 Q	8.35	7.60	8.00	J-2	Q1	2.69	0.38	0.75	0.28	0.38	1.75	1.75	15.30
3 B 86 Q	8.95	8.20	8.60	J-2	Q1	2.69	0.38	0.75	0.28	0.38	2.50	1.75	0.00
3 B 90 Q	9.35	8.60	9.00	J-3	Q1	2.69	0.38	0.75	0.28	0.38	1.75	1.75	18.10
3 B 94 Q	9.75	9.00	9.40	J-3	Q1	2.69	0.38	0.75	0.28	0.38	2.50	1.75	0.00
3 B 110 Q	11.35	10.60	11.00	J-3	Q1	2.69	0.38	0.75	0.28	0.38	1.75	1.75	21.30
3 B 124 Q	12.75	12.00	12.40	J-3	Q1	2.69	0.38	0.75	0.28	0.38	2.50	1.75	25.40
3 B 136 Q	13.95	13.20	13.60	J-3	Q1	2.69	0.38	0.75	0.28	0.38	1.75	1.75	27.40
3 B 154 Q	15.75	15.00	15.40	J-3	Q1	2.69	0.38	0.75	0.28	0.38	1.75	1.75	29.80
3 B 154 R	15.75	15.00	15.40	J-3	R1	3.75	0.38	0.75	0.28	0.13	2.88	2.00	35.50
3 B 160 Q	16.35	15.60	16.00	J-3	Q1	2.69	0.38	0.75	0.28	0.38	1.75	1.75	32.00
3 B 160 R	16.35	15.60	16.00	J-3	R1	3.75	0.38	0.75	0.28	0.13	2.88	2.00	38.00
3 B 184 Q	18.75	18.00	18.40	J-3	Q1	2.69	0.38	0.75	0.28	0.38	1.75	1.75	37.80
3 B 184 R	18.75	18.00	18.40	J-3	R1	3.75	0.38	0.75	0.28	0.13	2.88	2.00	44.80
3 B 200 Q	20.35	19.50	20.00	J-3	Q1	2.69	0.38	0.75	0.28	0.38	1.75	1.75	49.90
3 B 200 R	20.35	19.50	20.00	J-3	R1	3.75	0.38	0.75	0.28	0.13	2.88	2.00	50.30
3 B 250 Q	25.35	24.50	25.00	J-3	Q1	2.69	0.38	0.75	0.28	0.38	1.75	1.75	61.00
3 B 250 R	25.35	24.50	25.00	J-3	R1	3.75	0.38	0.75	0.28	0.13	2.88	2.00	65.00
3 B 300 Q	30.35	29.50	30.00	J-3	Q1	2.69	0.38	0.75	0.28	0.38	1.75	1.75	78.50
3 B 300 R	30.35	29.50	30.00	J-3	R1	3.75	0.38	0.75	0.28	0.13	2.88	2.00	89.00
3 B 380 Q	38.35	37.50	38.00	J-3	Q1	2.69	0.38	0.75	0.28	0.38	1.75	1.75	110.00
3 B 380 R	38.35	37.50	38.00	J-3	R1	3.75	0.38	0.75	0.28	0.13	2.88	2.00	106.00

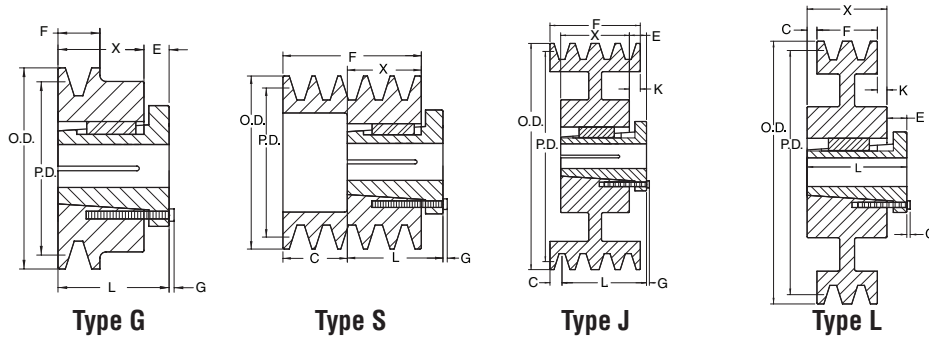
NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings

1 = Solid

2 = Web

3 = Spoked

A-B Combination Groove Conventional MST® Bushed Stock Sheaves



A-B MST® Sheaves

4 Groove F = 3-1/4													
Part Number	OD	PD		Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		A Belt	B Belt										
4 B 34 P	3.75	3.00	3.40	G-1	P2	1.75	1.38	0.63	0.25	0.44	2.94	2.31	4.50
4 B 36 P	3.95	3.20	3.60	N-1	P2	1.75	1.38	0.63	0.25	0.44	2.31	2.31	5.30
4 B 38 P	4.15	3.40	3.80	S-1	P1	1.75	1.94	-	0.25	-	1.94	1.31	4.80
4 B 40 P	4.35	3.60	4.00	J-2	P1	1.75	1.94	-	0.25	-	1.94	1.31	5.50
4 B 42 P	4.55	3.80	4.20	S-1	P1	1.75	1.94	-	0.25	-	1.31	1.31	5.90
4 B 44 P	4.75	4.00	4.40	J-2	P1	1.75	1.31	0.63	0.25	0.63	1.94	1.31	6.50
4 B 46 P	4.95	4.20	4.60	J-2	P1	1.75	1.31	0.63	0.25	0.63	1.31	1.31	7.10
4 B 48 P	5.15	4.40	4.80	J-2	P1	1.75	1.31	0.63	0.25	0.63	1.94	1.31	7.50
4 B 50 P	5.35	4.60	5.00	J-2	P1	1.75	1.31	0.63	0.25	0.63	1.31	1.31	8.30
4 B 52 P	5.55	4.80	5.20	J-2	P1	1.75	1.31	0.63	0.25	0.63	1.94	1.31	9.10
4 B 54 P	5.75	5.00	5.40	J-2	P1	1.75	1.31	0.63	0.25	0.63	1.31	1.31	9.60
4 B 54 Q	5.75	5.00	5.40	S-1	Q1	2.69	1.31	0.63	0.28	0.19	2.50	1.75	9.30
4 B 56 P	5.95	5.20	5.60	J-2	P1	1.75	1.31	0.63	0.25	0.63	1.31	1.31	10.60
4 B 56 Q	5.95	5.20	5.60	S-1	Q1	2.69	1.31	0.63	0.28	0.19	2.50	1.75	10.50
4 B 58 P	6.15	5.40	5.80	J-2	P1	1.75	1.31	0.63	0.25	0.63	1.31	1.31	11.60
4 B 58 Q	6.15	5.40	5.80	J-2	Q1	2.69	1.31	0.63	0.28	0.19	2.50	1.75	11.50
4 B 60 P	6.35	5.60	6.00	J-2	P1	1.75	1.31	0.63	0.25	0.63	1.31	1.31	11.90
4 B 60 Q	6.35	5.60	6.00	J-2	Q1	2.69	1.31	0.63	0.28	0.19	2.50	1.75	12.60
4 B 62 P	6.55	5.80	6.20	J-2	P1	1.75	1.31	0.63	0.25	0.63	1.31	1.31	11.10
4 B 62 Q	6.55	5.80	6.20	J-2	Q1	2.69	1.31	0.63	0.28	0.19	2.50	1.75	12.60
4 B 64 P	6.75	6.00	6.40	J-2	P1	1.75	1.31	0.63	0.25	0.63	1.31	1.31	11.80
4 B 64 Q	6.75	6.00	6.40	J-2	Q1	2.69	1.31	0.63	0.28	0.19	2.50	1.75	14.10
4 B 66 P	6.95	6.20	6.60	J-2	P1	1.75	1.31	0.63	0.25	0.63	1.31	1.31	12.00
4 B 66 Q	6.95	6.20	6.60	J-2	Q1	2.69	1.31	0.63	0.28	0.19	2.50	1.75	14.80
4 B 68 P	7.15	6.40	6.80	J-2	P1	1.75	1.31	0.63	0.25	0.63	1.31	1.31	12.50
4 B 68 Q	7.15	6.40	6.80	J-2	Q1	2.69	1.31	0.63	0.28	0.19	2.50	1.75	16.90
4 B 70 Q	7.35	6.60	7.00	J-2	Q1	2.69	0.75	0.75	0.28	0.75	2.50	1.75	15.30
4 B 74 Q	7.75	7.00	7.40	J-2	Q1	2.69	0.75	0.75	0.28	0.75	1.75	1.75	15.30
4 B 80 Q	8.35	7.60	8.00	J-2	Q1	2.69	0.75	0.75	0.28	0.75	2.50	1.75	17.00
4 B 86 Q	8.95	8.20	8.60	J-2	P1	1.75	0.75	0.75	0.25	0.75	1.31	1.75	20.80
4 B 90 Q	9.35	8.60	9.00	J-3	Q1	2.69	0.75	0.75	0.28	0.75	2.50	1.75	20.60
4 B 94 Q	9.75	9.00	9.40	J-3	Q1	2.69	0.75	0.75	0.28	0.75	1.75	1.75	20.10
4 B 110 Q	11.35	10.60	11.00	J-3	Q1	2.69	0.75	0.75	0.28	0.75	1.75	1.75	25.80
4 B 124 Q	12.75	12.00	12.40	J-3	Q1	2.69	0.75	0.75	0.28	0.75	2.50	1.75	27.50
4 B 136 Q	13.95	13.20	13.60	J-3	Q1	2.69	0.75	0.75	0.28	0.75	1.75	1.75	31.50
4 B 154 Q	15.75	15.00	15.40	J-3	Q1	2.69	0.75	0.75	0.28	0.75	1.75	1.75	36.00
4 B 154 R	15.75	15.00	15.40	J-3	R1	3.75	0.75	0.88	0.28	0.50	2.88	2.00	40.10
4 B 160 Q	16.35	15.60	16.00	J-3	Q1	2.69	0.75	0.75	0.28	0.75	1.75	1.75	39.00
4 B 160 R	16.35	15.60	16.00	J-3	R1	3.75	0.75	0.88	0.28	0.50	2.88	2.00	44.00
4 B 184 Q	18.75	18.00	18.40	J-3	Q1	2.69	0.75	0.75	0.28	0.75	1.75	1.75	44.80
4 B 184 R	18.75	18.00	18.40	J-3	R1	3.75	0.75	0.88	0.28	0.50	2.88	2.00	50.30
4 B 200 Q	20.35	19.50	20.00	J-3	Q1	2.69	0.75	0.75	0.28	0.75	1.75	1.75	57.00
4 B 200 R	20.35	19.50	20.00	J-3	R1	3.75	0.75	0.88	0.28	0.50	2.88	2.00	54.00
4 B 250 Q	25.35	24.50	25.00	J-3	Q1	2.69	0.75	0.75	0.28	0.75	1.75	1.75	69.50
4 B 250 R	25.35	24.50	25.00	J-3	R1	3.75	0.75	0.88	0.28	0.50	2.88	2.00	71.00
4 B 300 Q	30.35	29.50	30.00	J-3	Q1	2.69	0.75	0.75	0.28	0.75	1.75	1.75	90.80
4 B 300 R	30.35	29.50	30.00	J-3	R1	3.75	0.75	0.88	0.28	0.50	2.88	2.00	99.00
4 B 380 Q	38.35	37.50	38.00	J-3	Q1	2.69	0.75	0.75	0.28	0.75	1.75	1.75	125.00
4 B 380 R	38.35	37.50	38.00	J-3	R1	3.75	0.75	0.88	0.28	0.50	2.88	2.00	126.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings

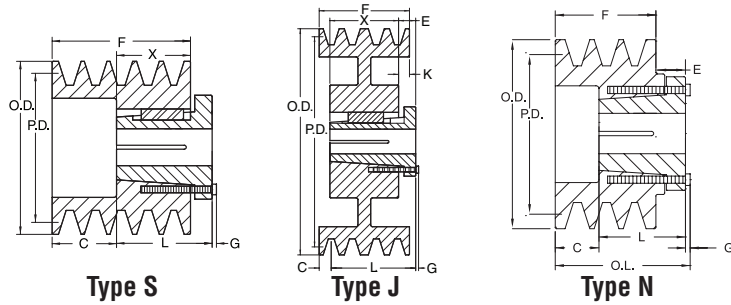
1 = Solid

2 = Web

3 = Spoked



Combination Groove Conventional MST® Bushed Stock Sheaves **A-B**



A-B MST® Sheaves

5 Groove F = 4													
Part Number	OD	PD		Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		A Belt	B Belt										
5 B 34 P	3.75	3.00	3.40	N-1	P2	1.75	2.13	0.63	0.25	0.44	2.31	2.31	5.30
5 B 36 P	3.95	3.20	3.60	G-1	P2	1.75	2.13	0.63	0.25	0.44	2.94	2.31	6.10
5 B 38 P	4.15	3.40	3.80	S-1	P2	1.75	1.69	-	0.25	-	2.31	2.31	6.10
5 B 40 P	4.35	3.60	4.00	S-1	P2	1.75	1.69	-	0.25	-	2.31	2.31	7.00
5 B 42 P	4.55	3.80	4.20	S-1	P2	1.75	1.69	-	0.25	-	2.94	2.31	7.80
5 B 44 P	4.75	4.00	4.40	J-2	P2	1.75	1.06	0.63	0.25	0.63	2.31	2.31	8.50
5 B 46 P	4.95	4.20	4.60	J-2	P2	1.75	1.06	0.63	0.25	0.63	2.94	2.31	9.80
5 B 48 P	5.15	4.40	4.80	J-2	P2	1.75	1.06	0.63	0.25	0.63	2.31	2.31	10.50
5 B 50 P	5.35	4.60	5.00	J-2	P2	1.75	1.06	0.63	0.25	0.63	2.94	2.31	11.60
5 B 52 P	5.55	4.80	5.20	J-2	P2	1.75	1.06	0.63	0.25	0.63	2.94	2.31	12.50
5 B 54 Q	5.75	5.00	5.40	J-2	Q1	2.69	1.50	0.75	0.28	0.75	1.75	1.75	10.40
5 B 56 Q	5.95	5.20	5.60	J-2	Q1	2.69	1.50	0.75	0.28	0.75	2.50	1.75	11.80
5 B 58 Q	6.15	5.40	5.80	J-2	Q1	2.69	1.50	0.75	0.28	0.75	1.75	1.75	12.80
5 B 60 Q	6.35	5.60	6.00	J-2	Q1	2.69	1.50	0.75	0.28	0.75	2.50	1.75	13.80
5 B 62 Q	6.55	5.80	6.20	J-2	Q1	2.69	1.50	0.75	0.28	0.75	1.75	1.75	14.60
5 B 64 Q	6.75	6.00	6.40	J-2	Q1	2.69	1.50	0.75	0.28	0.75	2.50	1.75	16.40
5 B 66 Q	6.95	6.20	6.60	J-2	Q1	2.69	1.50	0.75	0.28	0.75	1.75	1.75	17.10
5 B 68 Q	7.15	6.40	6.80	J-2	Q1	2.69	1.50	0.75	0.28	0.75	2.50	1.75	17.90
5 B 70 Q	7.35	6.60	7.00	J-2	Q2	2.63	0.63	0.75	0.28	0.63	2.75	2.75	20.90
5 B 70 R	7.35	6.60	7.00	J-2	R1	3.75	1.00	0.88	0.28	1.00	2.88	2.00	17.00
5 B 74 Q	7.75	7.00	7.40	J-2	Q2	2.63	0.63	0.75	0.28	0.63	2.75	2.75	19.80
5 B 74 R	7.75	7.00	7.40	J-2	R1	3.75	1.00	0.88	0.28	1.00	2.88	2.00	20.30
5 B 80 Q	8.35	7.60	8.00	J-2	Q2	2.63	0.63	0.75	0.28	0.63	2.75	2.75	22.30
5 B 80 R	8.35	7.60	8.00	J-2	R1	3.75	1.00	0.88	0.28	1.00	2.88	2.00	24.80
5 B 86 Q	8.95	8.20	8.60	J-2	Q2	2.63	0.63	0.75	0.28	0.63	2.75	2.75	29.50
5 B 86 R	8.95	8.20	8.60	J-2	R1	3.75	1.00	0.88	0.28	1.00	2.88	2.00	27.30
5 B 90 Q	9.35	8.60	9.00	J-3	Q2	2.63	0.63	0.75	0.28	0.63	2.75	2.75	28.60
5 B 90 R	9.35	8.60	9.00	J-2	R1	3.75	1.00	0.88	0.28	1.00	2.88	2.00	29.10
5 B 94 Q	9.75	9.00	9.40	J-3	Q2	2.63	0.63	0.75	0.28	0.63	2.75	2.75	29.50
5 B 94 R	9.75	9.00	9.40	J-2	R1	3.75	1.00	0.88	0.28	1.00	2.88	2.00	30.00
5 B 110 Q	11.35	10.60	11.00	J-3	Q2	2.63	0.63	0.75	0.28	0.63	2.75	2.75	32.80
5 B 110 R	11.35	10.60	11.00	K-3	R1	3.75	1.00	0.88	0.28	1.00	2.88	2.00	32.80
5 B 124 Q	12.75	12.00	12.40	J-3	Q2	2.63	0.63	0.75	0.28	0.63	2.75	2.75	35.40
5 B 124 R	12.75	12.00	12.40	K-3	R1	3.75	1.00	0.88	0.28	1.00	2.88	2.00	36.00
5 B 136 Q	13.95	13.20	13.60	J-3	Q2	2.63	0.63	0.75	0.28	0.63	2.75	2.75	41.00
5 B 136 R	13.95	13.20	13.60	K-3	R1	3.75	1.00	0.88	0.28	1.00	2.88	2.00	40.30
5 B 154 Q	15.75	15.00	15.40	J-3	Q2	2.63	0.63	0.75	0.28	0.63	2.75	2.75	45.30
5 B 154 R	15.75	15.00	15.40	K-3	R1	3.75	1.00	0.88	0.28	1.00	2.88	2.00	45.00
5 B 160 Q	16.35	15.60	16.00	J-3	Q2	2.63	0.63	0.75	0.28	0.63	2.75	2.75	48.00
5 B 160 R	16.35	15.60	16.00	K-3	R1	3.75	1.00	0.88	0.28	1.00	2.88	2.00	48.00
5 B 184 Q	18.75	18.00	18.40	J-3	Q2	2.63	0.63	0.75	0.28	0.63	2.75	2.75	57.30
5 B 184 R	18.75	18.00	18.40	K-3	R1	3.75	1.00	0.88	0.28	1.00	2.88	2.00	54.00
5 B 200 Q	20.35	19.50	20.00	J-3	Q2	2.63	0.63	0.75	0.28	0.63	2.75	2.75	66.00
5 B 200 R	20.35	19.50	20.00	K-3	R1	3.75	1.00	0.88	0.28	1.00	2.88	2.00	64.00
5 B 250 Q	25.35	24.50	25.00	J-3	Q2	2.63	0.63	0.75	0.28	0.63	2.75	2.75	82.50
5 B 250 R	25.35	24.50	25.00	K-3	R1	3.75	1.00	0.88	0.28	1.00	2.88	2.00	79.00
5 B 300 Q	30.35	29.50	30.00	J-3	Q2	2.63	0.63	0.75	0.28	0.63	2.75	2.75	117.00
5 B 300 R	30.35	29.50	30.00	K-3	R1	3.75	1.00	0.88	0.28	1.00	2.88	2.00	115.00
5 B 380 Q	38.35	37.50	38.00	J-3	Q2	2.63	0.63	0.75	0.28	0.63	2.75	2.75	159.00
5 B 380 R	38.35	37.50	38.00	K-3	R1	3.75	1.00	0.88	0.28	1.00	2.88	2.00	150.00

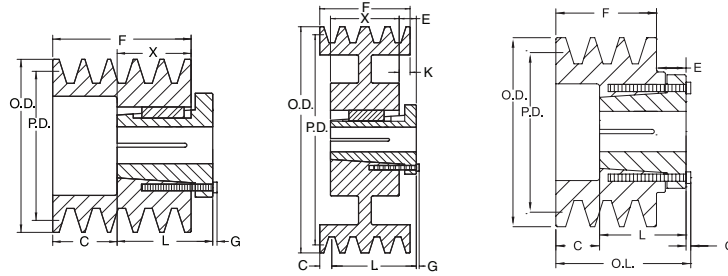
NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings

1 = Solid

2 = Web

3 = Spoked

A-B Combination Groove Conventional MST® Bushed Stock Sheaves



A-B MST® Sheaves

6 Groove F = 4-3/4													
Part Number	OD	PD		Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		A Belt	B Belt										
6 B 34 P	3.75	3.00	3.40	N-1	P2	1.75	0.00	0.63	0.25	2.44	2.94	2.31	6.10
6 B 36 P	3.95	3.20	3.60	N-1	P2	1.75	2.88	0.63	0.25	0.44	2.31	2.31	7.30
6 B 38 P	4.15	3.40	3.80	S-1	P2	1.75	-	-	0.25	2.44	2.94	2.31	7.00
6 B 40 P	4.35	3.60	4.00	S-1	P2	1.75	-	-	0.25	2.44	2.94	2.31	8.10
6 B 42 P	4.55	3.80	4.20	S-1	P2	1.75	2.44	-	0.25	-	2.31	2.31	9.30
6 B 44 P	4.75	4.00	4.40	J-2	P2	1.75	-	0.63	0.25	2.44	2.94	2.31	9.90
6 B 46 P	4.95	4.20	4.60	J-2	P2	1.75	-	0.63	0.25	2.44	2.94	2.31	11.00
6 B 48 P	5.15	4.40	4.80	J-2	P2	1.75	1.81	0.63	0.25	0.63	2.31	2.31	11.80
6 B 50 P	5.35	4.60	5.00	J-2	P2	1.75	-	0.63	0.25	2.44	2.94	2.31	12.90
6 B 52 P	5.55	4.80	5.20	J-2	P2	1.75	1.81	0.63	0.25	0.63	2.31	2.31	14.80
6 B 54 Q	5.75	5.00	5.40	J-2	Q1	2.69	-	0.75	0.28	3.00	2.50	1.75	11.80
6 B 56 Q	5.95	5.20	5.60	J-2	Q1	2.69	2.25	0.75	0.28	0.75	1.75	1.75	17.30
6 B 58 Q	6.15	5.40	5.80	J-2	Q1	2.69	-	0.75	0.28	3.00	2.50	1.75	14.50
6 B 60 Q	6.35	5.60	6.00	J-2	Q1	2.69	-	0.75	0.28	3.00	2.50	1.75	15.40
6 B 62 Q	6.55	5.80	6.20	J-2	Q1	2.69	2.25	0.75	0.28	0.75	1.75	1.75	16.40
6 B 64 Q	6.75	6.00	6.40	J-2	Q1	2.69	-	0.75	0.28	3.00	2.50	1.75	18.60
6 B 66 Q	6.95	6.20	6.60	J-2	Q1	2.69	2.25	0.75	0.28	0.75	1.75	1.75	18.50
6 B 68 Q	7.15	6.40	6.80	J-2	Q1	2.69	-	0.75	0.28	3.00	2.50	1.75	20.80
6 B 70 Q	7.35	6.60	7.00	K-2	Q2	2.63	1.00	0.75	0.28	1.00	2.75	2.75	22.80
6 B 70 R	7.35	6.60	7.00	J-2	R1	3.75	-	0.88	0.28	2.75	2.88	2.00	19.00
6 B 74 Q	7.75	7.00	7.40	K-2	Q2	2.63	1.00	0.75	0.28	1.00	2.75	2.75	26.50
6 B 74 R	7.75	7.00	7.40	J-2	R1	3.75	-	0.88	0.28	2.75	2.88	2.00	21.80
6 B 80 Q	8.35	7.60	8.00	K-2	Q2	2.63	1.00	0.75	0.28	1.00	2.75	2.75	24.10
6 B 80 R	8.35	7.60	8.00	J-2	R1	3.75	-	0.88	0.28	2.75	2.88	2.00	26.80
6 B 86 Q	8.95	8.20	8.60	K-2	Q2	2.63	1.00	0.75	0.28	1.00	2.75	2.75	27.10
6 B 86 R	8.95	8.20	8.60	J-2	R1	3.75	-	0.88	0.28	2.75	2.88	2.00	29.40
6 B 90 Q	9.35	8.60	9.00	K-2	Q2	2.63	1.00	0.75	0.28	1.00	2.75	2.75	30.60
6 B 90 R	9.35	8.60	9.00	J-2	R1	3.75	-	0.88	0.28	2.75	2.88	2.00	31.40
6 B 94 Q	9.75	9.00	9.40	K-3	Q2	2.63	1.00	0.75	0.28	1.00	2.75	2.75	32.80
6 B 94 R	9.75	9.00	9.40	J-2	R1	3.75	-	0.88	0.28	2.75	2.88	2.00	32.80
6 B 110 Q	11.35	10.60	11.00	K-3	Q2	2.63	1.00	0.75	0.28	1.00	2.75	2.75	36.60
6 B 110 R	11.35	10.60	11.00	J-2	R1	3.75	-	0.88	0.28	2.75	2.88	2.00	37.00
6 B 124 Q	12.75	12.00	12.40	K-3	Q2	2.63	1.00	0.75	0.28	1.00	2.75	2.75	39.80
6 B 124 R	12.75	12.00	12.40	J-2	R1	3.75	-	0.88	0.28	2.75	2.88	2.00	39.40
6 B 136 Q	13.95	13.20	13.60	K-3	Q2	2.63	1.00	0.75	0.28	1.00	2.75	2.75	44.90
6 B 136 R	13.95	13.20	13.60	K-3	R1	3.75	-	0.88	0.28	2.75	2.88	2.00	45.30
6 B 154 Q	15.75	15.00	15.40	K-3	Q2	2.63	1.00	0.75	0.28	1.00	2.75	2.75	49.90
6 B 154 R	15.75	15.00	15.40	K-3	R1	3.75	-	0.88	0.28	2.75	2.88	2.00	49.10
6 B 160 Q	16.35	15.60	16.00	K-3	Q2	2.63	1.00	0.75	0.28	1.00	2.75	2.75	54.00
6 B 160 R	16.35	15.60	16.00	K-3	R1	3.75	-	0.88	0.28	2.75	2.88	2.00	52.00
6 B 184 Q	18.75	18.00	18.40	K-3	Q2	2.63	1.00	0.75	0.28	1.00	2.75	2.75	62.00
6 B 184 R	18.75	18.00	18.40	K-3	R1	3.75	-	0.88	0.28	2.75	2.88	2.00	59.00
6 B 200 Q	20.35	19.50	20.00	K-3	Q2	2.63	1.00	0.75	0.28	1.00	2.75	2.75	74.00
6 B 200 R	20.35	19.50	20.00	K-3	R1	3.75	-	0.88	0.28	2.75	2.88	2.00	69.00
6 B 250 Q	25.35	24.50	25.00	K-3	Q2	2.63	1.00	0.75	0.28	1.00	2.75	2.75	89.50
6 B 250 R	25.35	24.50	25.00	K-3	R1	3.75	-	0.88	0.28	2.75	2.88	2.00	83.00
6 B 300 Q	30.35	29.50	30.00	K-3	Q2	2.63	1.00	0.75	0.28	1.00	2.75	2.75	128.00
6 B 300 R	30.35	29.50	30.00	K-3	R1	3.75	-	0.88	0.28	2.75	2.88	2.00	126.00
6 B 380 Q	38.35	37.50	38.00	K-3	Q2	2.63	1.00	0.75	0.28	1.00	2.75	2.75	179.00
6 B 380 R	38.35	37.50	38.00	K-3	R1	3.75	-	0.88	0.28	2.75	2.88	2.00	170.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings

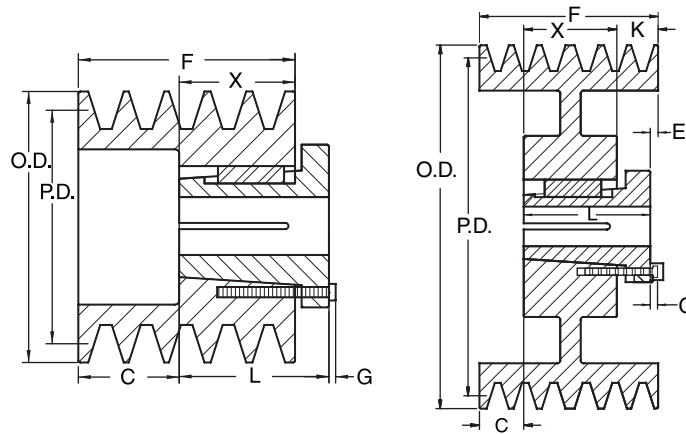
1 = Solid

2 = Web

3 = Spoked



Combination Groove Conventional MST[®] Bushed Stock Sheaves **A-B**



Type S

Type K

A-B MST[®] Sheaves

8 Groove												
F = 6-1/4												
Part Number	OD	PD		Type	Bush	Bush Max Bore	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		A Belt	B Belt									
8 B 54 Q	5.75	5.00	5.40	S-1	Q2	2.63	0.75	0.28	3.50	3.50	2.75	18.10
8 B 56 Q	5.95	5.20	5.60	S-1	Q2	2.63	0.75	0.28	3.50	3.50	2.75	20.60
8 B 58 Q	6.15	5.40	5.80	K-2	Q2	2.63	0.75	0.28	3.50	3.50	2.75	20.90
8 B 60 Q	6.35	5.60	6.00	K-2	Q2	2.63	0.75	0.28	3.50	3.50	2.75	23.00
8 B 62 Q	6.55	5.80	6.20	K-2	Q2	2.63	0.75	0.28	3.50	3.50	2.75	23.00
8 B 64 Q	6.55	5.80	6.20	K-2	Q2	2.63	0.75	0.28	3.50	3.50	2.75	25.00
8 B 66 Q	6.95	6.20	6.60	K-2	Q2	2.63	0.75	0.28	3.50	3.50	2.75	27.30
8 B 68 Q	7.15	6.40	6.80	K-2	Q2	2.63	0.75	0.28	3.50	3.50	2.75	31.10
8 B 70 R	7.35	6.60	7.00	K-2	R2	3.63	0.88	0.28	2.25	4.88	4.00	29.50
8 B 74 R	7.75	7.00	7.40	K-2	R2	3.63	0.88	0.28	2.25	4.88	4.00	34.90
8 B 80 R	8.35	7.60	8.00	K-2	R2	3.63	0.88	0.28	2.25	4.88	4.00	42.90
8 B 86 R	8.95	8.20	8.60	K-2	R2	3.63	0.88	0.28	2.25	4.88	4.00	52.00
8 B 90 R	9.35	8.60	9.00	K-2	R2	3.63	0.88	0.28	2.25	4.88	4.00	48.30
8 B 94 R	9.75	9.00	9.40	K-2	R2	3.63	0.88	0.28	2.25	4.88	4.00	49.30
8 B 110 R	11.35	10.60	11.00	K-2	R2	3.63	0.88	0.28	2.25	4.88	4.00	55.00
8 B 124 R	12.75	12.00	12.40	K-3	R2	3.63	0.88	0.28	2.25	4.88	4.00	60.00
8 B 136 R	13.95	13.20	13.60	K-3	R2	3.63	0.88	0.28	2.25	4.88	4.00	68.50
8 B 154 R	15.75	15.00	15.40	K-3	R2	3.63	0.88	0.28	2.25	4.88	4.00	77.30
8 B 184 R	18.75	18.00	18.40	K-3	R2	3.63	0.88	0.28	2.25	4.88	4.00	90.00
8 B 200 R	20.35	19.50	20.00	K-3	R2	3.63	0.88	0.28	2.25	4.88	4.00	96.00
8 B 250 R	25.35	24.50	25.00	K-3	R2	3.63	0.88	0.28	2.25	4.88	4.00	129.00
8 B 300 R	30.35	29.50	30.00	K-3	R2	3.63	0.88	0.28	2.25	4.88	4.00	163.00
8 B 300 S	30.35	29.50	30.00	K-3	S1	4.25	1.06	0.38	2.94	4.38	3.31	168.00
8 B 380 R	38.35	37.50	38.00	K-3	R2	3.63	0.88	0.28	2.25	4.88	4.00	228.00
8 B 380 S	38.35	37.50	38.00	K-3	S1	4.25	1.06	0.38	2.94	4.38	3.31	238.00

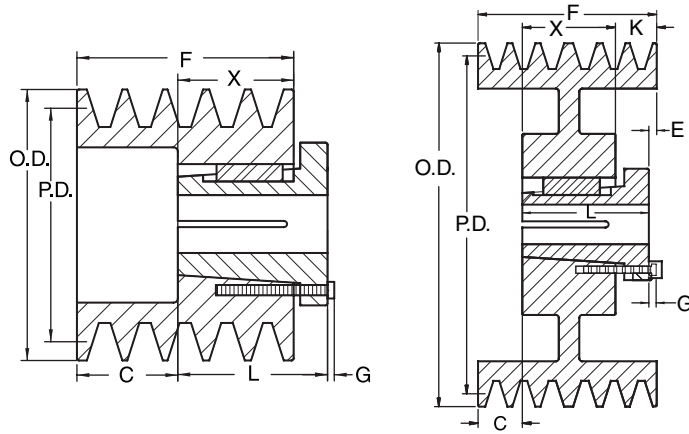
NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings

1 = Solid

2 = Web

3 = Spoked

A-B Combination Groove Conventional MST® Bushed Stock Sheaves



Type S

Type K

A-B MST® Sheaves

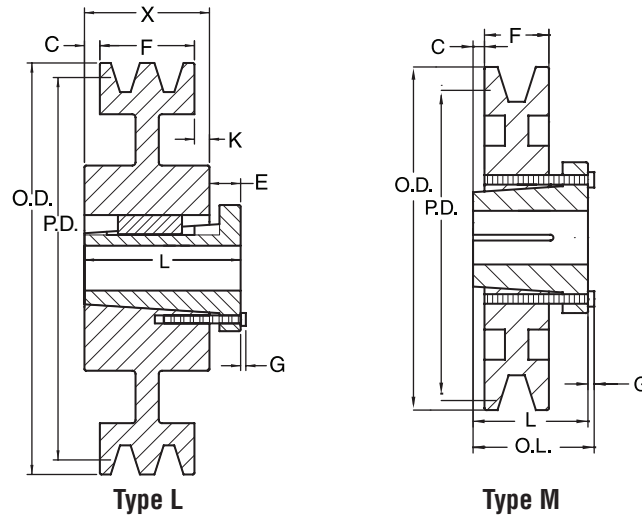
10 Groove F = 7-3/4												
Part Number	OD	PD		Type	Bush	Bush Max Bore	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		A Belt	B Belt									
10 B 54 Q	5.75	5.00	5.40	S-1	Q2	2.63	0.75	0.28	5.00	3.50	2.75	21.50
10 B 56 Q	5.95	5.20	5.60	S-1	Q2	2.63	0.75	0.28	5.00	3.50	2.75	24.90
10 B 58 Q	6.15	5.40	5.80	K-2	Q2	2.63	0.75	0.28	5.00	3.50	2.75	23.50
10 B 60 Q	6.35	5.60	6.00	K-2	Q2	2.63	0.75	0.28	5.00	3.50	2.75	25.60
10 B 62 Q	6.55	5.80	6.20	K-2	Q2	2.63	0.75	0.28	5.00	3.50	2.75	27.50
10 B 64 Q	6.75	6.00	6.40	K-2	Q2	2.63	0.75	0.28	5.00	3.50	2.75	31.40
10 B 66 Q	6.95	6.20	6.60	K-2	Q2	2.63	0.75	0.28	5.00	3.50	2.75	32.50
10 B 68 Q	7.15	6.40	6.80	K-2	Q2	2.63	0.75	0.28	5.00	3.50	2.75	36.10
10 B 70 R	7.35	6.60	7.00	K-2	R2	3.63	0.88	0.28	3.75	4.88	4.00	34.00
10 B 74 R	7.75	7.00	7.40	K-2	R2	3.63	0.88	0.28	3.75	4.88	4.00	39.30
10 B 80 R	8.35	7.60	8.00	K-2	R2	3.63	0.88	0.28	3.75	4.88	4.00	48.50
10 B 86 R	8.95	8.20	8.60	K-2	R2	3.63	0.88	0.28	3.75	4.88	4.00	51.50
10 B 90 R	9.35	8.60	9.00	K-2	R2	3.63	0.88	0.28	3.75	4.88	4.00	52.30
10 B 94 R	9.75	9.00	9.40	K-2	R2	3.63	0.88	0.28	3.75	4.88	4.00	54.00
10 B 110 R	11.35	10.60	11.00	K-2	R2	3.63	0.88	0.28	3.75	4.88	4.00	61.00
10 B 124 R	12.75	12.00	12.40	K-2	R2	3.63	0.88	0.28	3.75	4.88	4.00	77.50
10 B 136 R	13.95	13.20	13.60	K-2	R2	3.63	0.88	0.28	3.75	4.88	4.00	76.50
10 B 154 R	15.75	15.00	15.40	K-3	R2	3.63	0.88	0.28	3.75	4.88	4.00	89.00
10 B 184 R	18.75	18.00	18.40	K-3	R2	3.63	0.88	0.28	3.75	4.88	4.00	104.00
10 B 200 R	20.35	19.50	20.00	K-3	R2	3.63	0.88	0.28	3.75	4.88	4.00	112.00
10 B 250 R	25.35	24.50	25.00	K-3	R2	3.63	0.88	0.28	3.75	4.88	4.00	153.00
10 B 300 R	30.35	29.50	30.00	K-3	R2	3.63	0.88	0.28	3.75	4.88	4.00	188.00
10 B 380 R	38.35	37.50	38.00	K-3	R2	3.63	0.88	0.28	3.75	4.88	4.00	258.00
10 B 380 U	38.35	37.50	38.00	K-3	U0	5.50	1.19	0.47	4.00	4.94	3.75	270.00
8 B 380 S	38.35	37.50	38.00	K-3	S1	4.25	1.06	0.38	2.94	4.38	3.31	238.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings

1 = Solid

2 = Web

3 = Spoked



C MST® Sheaves

1 Groove												
F = 1-1/4												
Part Number	OD	PD	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		C Belt										
1 C 56 P	6.00	5.60	M-1	P1	1.75	0.06	0.63	0.25	—	1.94	1.31	6.00
1 C 60 Q	6.40	6.00	M-1	Q1	2.69	0.50	0.75	0.28	—	2.50	1.75	6.10
1 C 70 Q	7.40	7.00	M-1	Q1	2.69	0.50	0.75	0.28	—	2.50	1.25	9.30
1 C 72 Q	7.60	7.20	M-2	Q1	2.69	0.50	0.75	0.28	—	2.50	1.25	10.10
1 C 74 Q	7.80	7.40	M-2	Q1	2.69	0.50	0.75	0.28	—	2.50	1.25	10.80
1 C 76 Q	8.00	7.60	M-2	Q1	2.69	0.50	0.75	0.28	—	2.50	1.25	11.40
1 C 78 Q	8.20	7.80	M-2	Q1	2.69	0.50	0.75	0.28	—	2.50	1.25	9.80
1 C 80 Q	8.40	8.00	M-2	Q1	2.69	0.50	0.75	0.28	—	2.50	1.25	9.90
1 C 82 Q	8.60	8.20	M-2	Q1	2.69	0.50	0.75	0.28	—	2.50	1.25	10.10
1 C 84 Q	8.80	8.40	M-2	Q1	2.69	0.50	0.75	0.28	—	2.50	1.25	11.00
1 C 86 Q	9.00	8.60	M-2	Q1	2.69	0.50	0.75	0.28	—	2.50	1.25	10.60
1 C 88 Q	9.20	8.80	M-2	Q1	2.69	0.50	0.75	0.28	—	2.50	1.25	11.60
1 C 90 Q	9.40	9.00	M-2	Q1	2.69	0.50	0.75	0.28	—	2.50	1.25	11.40
1 C 92 Q	9.60	9.20	M-2	Q1	2.69	0.50	0.75	0.28	—	2.50	1.25	12.60
1 C 94 Q	9.80	9.40	L-3	Q1	2.69	0.25	0.75	0.28	1.00	2.50	1.75	14.80
1 C 96 Q	10.00	9.60	L-3	Q1	2.69	0.25	0.75	0.28	1.00	2.50	1.75	15.80
1 C 98 Q	10.20	9.80	L-3	Q1	2.69	0.25	0.75	0.28	1.00	2.50	1.75	15.90
1 C 100 Q	10.40	10.00	L-3	Q1	2.69	0.25	0.75	0.28	1.00	2.50	1.75	16.80
1 C 102 Q	10.60	10.20	L-3	Q1	2.69	0.25	0.75	0.28	1.00	2.50	1.75	16.10
1 C 106 Q	11.00	10.60	L-3	Q1	2.69	0.25	0.75	0.28	1.00	2.50	1.75	17.30
1 C 110 Q	11.40	11.00	L-3	Q1	2.69	0.25	0.75	0.28	1.00	2.50	1.75	17.50
1 C 114 Q	11.80	11.40	L-3	Q1	2.69	0.25	0.75	0.28	1.00	2.50	1.75	18.60
1 C 120 Q	12.40	12.00	L-3	Q1	2.69	0.25	0.75	0.28	1.00	2.50	1.75	19.50
1 C 130 Q	13.40	13.00	L-3	Q1	2.69	0.25	0.75	0.28	1.00	2.50	1.75	22.80
1 C 160 Q	16.40	16.00	L-3	Q1	2.69	0.25	0.75	0.28	1.00	2.50	1.75	28.50
1 C 200 Q	20.40	20.00	L-3	Q1	2.69	0.25	0.75	0.28	1.00	2.50	1.75	37.80
1 C 240 Q	24.40	24.00	L-3	Q1	2.69	0.25	0.75	0.28	1.00	2.50	1.75	49.50

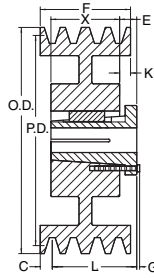
NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings

1 = Solid

2 = Web

3 = Spoked

C Conventional MST® Bushed Stock Sheaves



Type J

C MST® Sheaves

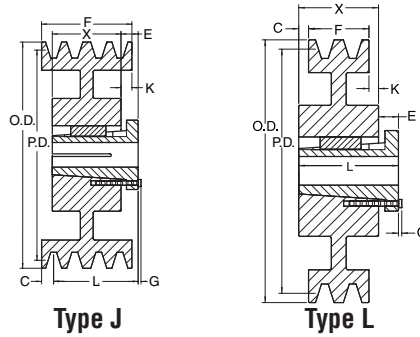
2 Groove F = 2-1/4												
Part Number	OD	PD C Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
2 C 56 P	6.00	5.60	J-2	P1	1.75	0.31	0.63	0.25	0.63	1.94	1.31	8.40
2 C 60 Q	6.40	6.00	J-2	Q1	2.69	0.00	0.75	0.28	0.50	2.50	1.75	9.50
2 C 70 Q	7.40	7.00	J-2	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	14.00
2 C 72 Q	7.60	7.20	J-2	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	15.40
2 C 74 Q	7.80	7.40	J-2	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	16.60
2 C 76 Q	8.00	7.60	J-2	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	17.60
2 C 78 Q	8.20	7.80	J-2	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	14.10
2 C 80 Q	8.40	8.00	J-2	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	14.30
2 C 82 Q	8.60	8.20	J-2	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	14.80
2 C 84 Q	8.80	8.40	J-2	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	16.40
2 C 86 Q	9.00	8.60	J-2	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	16.10
2 C 88 Q	9.20	8.80	J-2	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	17.10
2 C 90 Q	9.40	9.00	J-2	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	16.80
2 C 92 Q	9.60	9.20	J-2	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	18.40
2 C 94 Q	9.80	9.40	J-3	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	19.10
2 C 96 Q	10.00	9.60	J-3	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	20.60
2 C 98 Q	10.20	9.80	J-3	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	19.50
2 C 100 Q	10.40	10.00	J-3	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	22.00
2 C 102 Q	10.60	10.20	J-3	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	21.30
2 C 106 Q	11.00	10.60	J-3	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	22.40
2 C 110 Q	11.40	11.00	J-3	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	22.40
2 C 114 Q	11.80	11.40	J-3	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	23.50
2 C 120 Q	12.40	12.00	J-3	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	24.90
2 C 130 Q	13.40	13.00	J-3	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	28.60
2 C 140 R	14.40	14.00	J-3	R1	3.75	0.13	0.88	0.28	0.13	2.88	2.00	33.50
2 C 160 Q	16.40	16.00	J-3	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	36.00
2 C 180 R	18.40	18.00	J-3	R1	3.75	0.13	0.88	0.28	0.13	2.88	2.00	42.30
2 C 200 Q	20.40	20.00	J-3	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	46.00
2 C 240 Q	24.40	24.00	J-3	Q1	2.69	0.25	0.75	0.28	0.25	2.50	1.75	59.50
2 C 270 R	27.40	27.00	J-3	R1	3.75	0.13	0.88	0.28	0.13	2.88	2.00	77.00
2 C 300 R	30.40	30.00	J-3	R1	3.75	0.13	0.88	0.28	0.13	2.88	2.00	93.00
2 C 360 R	36.40	36.00	J-3	R1	3.75	0.13	0.88	0.28	0.13	2.88	2.00	117.00
2 C 440 R	44.40	44.00	J-3	R1	3.75	0.13	0.88	0.28	0.13	2.88	2.00	164.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings

1 = Solid

2 = Web

3 = Spoked



C MST[®] Sheaves

3 Groove F = 3-1/4												
Part Number	OD	PD C Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
3 C 50 Q	5.40	5.00	J-1	Q1	2.69	1.50	0.75	0.28	-	2.50	1.75	8.40
3 C 56 P	6.00	5.60	J-2	P2	1.75	0.31	0.63	0.25	0.63	2.94	2.31	12.90
3 C 60 Q	6.40	6.00	J-2	Q1	2.69	0.63	0.75	0.28	0.75	2.50	1.75	11.80
3 C 70 Q	7.40	7.00	J-2	Q1	2.69	0.63	0.75	0.28	0.75	2.50	1.75	16.80
3 C 72 Q	7.60	7.20	J-2	Q1	2.69	0.63	0.75	0.28	0.75	2.50	1.75	18.00
3 C 74 Q	7.80	7.40	J-2	Q1	2.69	0.63	0.75	0.28	0.75	2.50	1.75	19.10
3 C 76 Q	8.00	7.60	J-2	Q1	2.69	0.63	0.75	0.28	0.75	2.50	1.75	21.30
3 C 78 Q	8.20	7.80	J-2	Q1	2.69	0.63	0.75	0.28	0.75	2.50	1.75	17.40
3 C 80 Q	8.40	8.00	J-2	Q1	2.69	0.63	0.75	0.28	0.75	2.50	1.75	17.80
3 C 82 Q	8.60	8.20	J-2	Q1	2.69	0.63	0.75	0.28	0.75	2.50	1.75	17.90
3 C 84 Q	8.80	8.40	J-2	Q1	2.69	0.63	0.75	0.28	0.75	2.50	1.75	20.40
3 C 86 Q	9.00	8.60	J-2	Q1	2.69	0.63	0.75	0.28	0.75	2.50	1.75	19.50
3 C 88 Q	9.20	8.80	J-2	Q1	2.69	0.63	0.75	0.28	0.75	2.50	1.75	22.50
3 C 90 R	9.40	9.00	J-2	R1	3.75	0.63	0.88	0.28	0.75	2.88	2.00	27.30
3 C 90 Q	9.40	9.00	J-2	Q1	2.69	0.75	0.75	0.28	0.75	2.50	1.75	20.40
3 C 92 R	9.60	9.20	J-2	R1	3.75	0.63	0.88	0.28	0.75	2.88	2.00	27.50
3 C 92 Q	9.60	9.20	J-2	Q1	2.69	0.75	0.75	0.28	0.75	2.50	1.75	22.80
3 C 94 R	9.80	9.40	J-3	R1	3.75	0.63	0.88	0.28	0.75	2.88	2.00	26.90
3 C 94 Q	9.80	9.40	J-3	Q1	2.69	0.75	0.75	0.28	0.75	2.50	1.75	23.00
3 C 96 R	10.00	9.60	J-3	R1	3.75	0.63	0.88	0.28	0.75	2.88	2.00	28.40
3 C 96 Q	10.00	9.60	J-3	Q1	2.69	0.75	0.75	0.28	0.75	2.50	1.75	25.30
3 C 98 R	10.20	9.80	J-3	R1	3.75	0.63	0.88	0.28	0.75	2.88	2.00	29.30
3 C 98 Q	10.20	9.80	J-3	Q1	2.69	0.75	0.75	0.28	0.75	2.50	1.75	24.40
3 C 100 R	10.40	10.00	J-2	R1	3.75	0.63	0.88	0.28	0.63	2.88	2.00	29.00
3 C 100 Q	10.40	10.00	J-3	Q1	2.69	0.75	0.75	0.28	0.75	2.50	1.75	27.60
3 C 102 R	10.60	10.20	J-2	R1	3.75	0.63	0.88	0.28	0.63	2.88	2.00	31.40
3 C 102 Q	10.60	10.20	J-3	Q1	2.69	0.75	0.75	0.28	0.75	2.50	1.75	24.90
3 C 106 R	11.00	10.60	J-2	R1	3.75	0.63	0.88	0.28	0.63	2.88	2.00	31.80
3 C 106 Q	11.00	10.60	J-3	Q1	2.69	0.75	0.75	0.28	0.75	2.50	1.75	26.90
3 C 110 R	11.40	11.00	J-2	R1	3.75	0.63	0.88	0.28	0.63	2.88	2.00	29.30
3 C 110 Q	11.40	11.00	J-3	Q1	2.69	0.75	0.75	0.28	0.75	2.50	1.75	27.40
3 C 114 Q	11.80	11.40	J-3	Q1	2.69	0.75	0.75	0.28	0.75	2.50	1.75	28.30
3 C 120 R	12.40	12.00	J-2	R1	3.75	0.63	0.88	0.28	0.63	2.88	2.00	36.90
3 C 120 Q	12.40	12.00	J-3	Q1	2.69	0.75	0.75	0.28	0.75	2.50	1.75	30.30
3 C 130 R	13.40	13.00	J-3	R1	3.75	0.63	0.88	0.28	0.63	2.88	2.00	34.80
3 C 130 Q	13.40	13.00	J-3	Q1	2.69	0.75	0.75	0.28	0.75	2.50	1.75	34.90
3 C 140 R	14.40	14.00	J-3	R1	3.75	0.63	0.88	0.28	0.63	2.88	2.00	39.40
3 C 150 R	15.40	15.00	J-3	R1	3.75	0.63	0.88	0.28	0.63	2.88	2.00	43.80
3 C 160 R	16.40	16.00	J-3	R1	3.75	0.63	0.88	0.28	0.63	2.88	2.00	47.00
3 C 160 Q	16.40	16.00	J-3	Q1	2.69	0.75	0.75	0.28	0.75	2.50	1.75	46.00
3 C 180 R	18.40	18.00	J-3	R1	3.75	0.63	0.88	0.28	0.63	2.88	2.00	51.50
3 C 200 R	20.40	20.00	J-3	R1	3.75	0.63	0.88	0.28	0.63	2.88	2.00	58.00
3 C 200 Q	20.40	20.00	J-3	Q1	2.69	0.75	0.75	0.28	0.75	2.50	1.75	54.50
3 C 240 R	24.40	24.00	J-3	R1	3.75	0.63	0.88	0.28	0.63	2.88	2.00	71.00
3 C 240 Q	24.40	24.00	J-3	Q1	2.69	0.75	0.75	0.28	0.75	2.50	1.75	71.00
3 C 270 R	27.40	27.00	J-3	R1	3.75	0.63	0.88	0.28	0.63	2.88	2.00	92.00
3 C 300 R	30.40	30.00	J-3	R1	3.75	0.63	0.88	0.28	0.63	2.88	2.00	110.00
3 C 360 R	36.40	36.00	J-3	R1	3.75	0.63	0.88	0.28	0.63	2.88	2.00	135.00
3 C 440 R	44.40	44.00	J-3	R1	3.75	0.63	0.88	0.28	0.63	2.88	2.00	196.00
3 C 500 R	50.40	50.00	J-3	R1	3.75	0.63	0.88	0.28	0.63	2.88	2.00	213.00
3 C 500 S	50.40	50.00	L-3	S1	4.25	0.03	1.06	0.38	0.03	4.38	3.31	224.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings

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3 = Spoked

C Conventional MST® Bushed Stock Sheaves



C MST® Sheaves

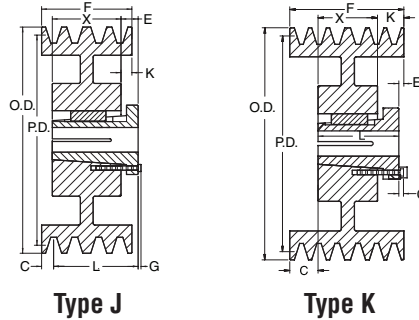
4 Groove F = 4-1/4												
Part Number	OD	PD C Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
4 C 50 Q	5.40	5.00	J-1	Q2	2.63	1.50	2.75	0.28	-	3.50	2.75	10.90
4 C 56 P	6.00	5.60	J-2	P2	1.75	1.31	0.63	0.25	0.63	2.94	2.31	15.40
4 C 60 Q	6.40	6.00	J-2	Q2	2.63	0.75	2.75	0.28	0.88	3.50	2.75	17.00
4 C 70 Q	7.40	7.00	J-2	Q2	2.63	0.75	0.75	0.28	0.75	3.50	2.75	23.80
4 C 72 Q	7.60	7.20	J-2	Q2	2.63	0.75	0.75	0.28	0.75	3.50	2.75	26.80
4 C 74 Q	7.80	7.40	J-2	Q2	2.63	0.75	0.75	0.28	0.75	3.50	2.75	27.50
4 C 76 Q	8.00	7.60	J-2	Q2	2.63	0.75	0.75	0.28	0.75	3.50	2.75	30.30
4 C 78 Q	8.20	7.80	J-2	Q2	2.63	0.75	0.75	0.28	0.75	3.50	2.75	26.40
4 C 80 Q	8.40	8.00	J-2	Q2	2.63	0.75	0.75	0.28	0.75	3.50	2.75	29.00
4 C 82 Q	8.60	8.20	J-2	Q2	2.63	0.75	0.75	0.28	0.75	3.50	2.75	26.80
4 C 84 Q	8.80	8.40	J-2	Q2	2.63	0.75	0.75	0.28	0.75	3.50	2.75	28.80
4 C 86 Q	9.00	8.60	J-2	Q2	2.63	0.75	0.75	0.28	0.75	3.50	2.75	27.90
4 C 88 Q	9.20	8.80	J-2	Q2	2.63	0.75	0.75	0.28	0.75	3.50	2.75	31.60
4 C 90 R	9.40	9.00	K-2	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	30.00
4 C 90 Q	9.40	9.00	J-2	Q2	2.63	0.75	0.75	0.28	0.75	3.50	2.75	28.40
4 C 92 R	9.60	9.20	K-2	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	31.60
4 C 92 Q	9.60	9.20	J-2	Q2	2.63	0.75	0.75	0.28	0.75	3.50	2.75	32.30
4 C 94 R	9.80	9.40	K-2	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	31.60
4 C 94 Q	9.80	9.40	J-2	Q2	2.63	0.75	0.75	0.28	0.75	3.50	2.75	31.80
4 C 96 R	10.00	9.60	K-2	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	31.10
4 C 96 Q	10.00	9.60	J-2	Q2	2.63	0.75	0.75	0.28	0.75	3.50	2.75	35.20
4 C 98 R	10.20	9.80	K-2	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	33.40
4 C 98 Q	10.20	9.80	J-2	Q2	2.63	0.75	0.75	0.28	0.75	3.50	2.75	33.00
4 C 100 R	10.40	10.00	K-2	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	34.10
4 C 100 Q	10.40	10.00	J-3	Q2	2.63	0.75	0.75	0.28	0.75	3.50	2.75	37.00
4 C 102 R	10.60	10.20	K-2	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	36.50
4 C 102 Q	10.60	10.20	J-3	Q2	2.63	0.75	0.88	0.28	0.75	3.50	2.75	33.50
4 C 106 R	11.00	10.60	K-2	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	36.50
4 C 106 Q	11.00	10.60	J-3	Q2	2.63	0.75	0.88	0.28	0.75	3.50	2.75	36.30
4 C 110 R	11.40	11.00	K-2	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	33.00
4 C 110 Q	11.40	11.00	J-3	Q2	2.63	0.75	0.88	0.28	0.75	3.50	2.75	36.30
4 C 114 Q	11.80	11.40	J-3	Q2	2.63	0.75	0.75	0.28	0.75	3.50	2.75	38.40
4 C 120 R	12.40	12.00	K-2	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	42.90
4 C 120 Q	12.40	12.00	J-3	Q2	2.63	0.75	0.88	0.28	0.75	3.50	2.75	40.50
4 C 130 R	13.40	13.00	K-3	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	40.10
4 C 130 Q	13.40	13.00	J-3	Q2	2.63	0.75	0.88	0.28	0.75	3.50	2.75	43.60
4 C 140 R	14.40	14.00	K-3	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	46.60
4 C 150 R	15.40	15.00	K-3	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	52.00
4 C 160 R	16.40	16.00	K-3	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	55.00
4 C 160 Q	16.40	16.00	J-3	Q2	2.63	0.75	0.88	0.28	0.75	3.50	2.75	55.00
4 C 180 R	18.40	18.00	K-3	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	60.00
4 C 180 S	18.40	18.00	J-3	S1	4.25	0.47	1.06	0.38	0.47	4.38	3.31	92.00
4 C 200 R	20.40	20.00	K-3	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	69.00
4 C 200 S	20.40	20.00	J-3	S1	4.25	0.47	1.06	0.38	0.47	4.38	3.31	103.00
4 C 200 Q	20.40	20.00	J-3	Q2	2.63	0.75	1.06	0.28	0.75	3.50	2.75	103.00
4 C 240 R	24.40	24.00	K-3	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	86.00
4 C 240 S	24.40	24.00	J-3	S1	4.25	0.47	1.06	0.38	0.47	4.38	3.31	120.00
4 C 240 Q	24.40	24.00	J-3	Q2	2.63	0.75	1.06	0.28	0.75	3.50	2.75	120.00
4 C 270 R	27.40	27.00	K-3	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	110.00
4 C 270 S	27.40	27.00	J-3	S1	4.25	0.47	1.06	0.38	0.47	4.38	3.31	123.00
4 C 300 R	30.40	30.00	K-3	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	123.00
4 C 300 S	30.40	30.00	J-3	S1	4.25	0.47	1.06	0.38	0.47	4.38	3.31	142.00
4 C 360 R	36.40	36.00	K-3	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	156.00
4 C 360 S	36.40	36.00	J-3	S1	4.25	0.47	1.06	0.38	0.47	4.38	3.31	183.00
4 C 440 R	44.40	44.00	K-3	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	218.00
4 C 440 U	44.40	44.00	J-3	U0	5.50	0.25	1.19	0.47	0.25	4.94	3.75	241.00
4 C 500 R	50.40	50.00	K-3	R1	3.75	1.13	0.88	0.28	1.13	2.88	2.00	240.00
4 C 500 U	50.40	50.00	J-3	U0	5.50	0.25	1.19	0.47	0.25	4.94	3.75	283.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings

1 = Solid

2 = Web

3 = Spoked



C MST® Sheaves

5 Groove F = 5-1/4												
Part Number	OD	PD	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		C Belt										
5 C 70 Q	7.40	7.00	K-2	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	27.50
5 C 72 Q	7.60	7.20	K-2	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	29.80
5 C 74 Q	7.80	7.40	K-2	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	31.00
5 C 76 Q	8.00	7.60	K-2	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	34.30
5 C 78 Q	8.20	7.80	K-2	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	30.00
5 C 80 Q	8.40	8.00	K-2	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	33.40
5 C 82 Q	8.60	8.20	K-2	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	30.30
5 C 84 Q	8.80	8.40	K-2	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	32.80
5 C 86 Q	9.00	8.60	K-2	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	31.00
5 C 88 Q	9.20	8.80	K-2	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	34.90
5 C 90 R	9.40	9.00	K-2	R1	3.75	1.63	0.88	0.28	1.63	2.88	2.00	33.40
5 C 90 Q	9.40	9.00	K-2	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	32.60
5 C 92 R	9.60	9.20	K-2	R1	3.75	1.63	0.88	0.28	1.63	2.88	2.00	36.80
5 C 92 Q	9.60	9.20	K-2	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	36.40
5 C 94 R	9.80	9.40	K-2	R1	3.75	1.63	0.88	0.28	1.63	2.88	2.00	35.80
5 C 94 Q	9.80	9.40	K-3	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	35.60
5 C 96 R	10.00	9.60	K-2	R1	3.75	1.63	0.88	0.28	1.63	2.88	2.00	35.40
5 C 96 Q	10.00	9.60	K-3	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	39.10
5 C 98 R	10.20	9.80	K-2	R1	3.75	1.63	0.88	0.28	1.63	2.88	2.00	37.60
5 C 98 Q	10.20	9.80	K-3	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	37.30
5 C 100 R	10.40	10.00	K-2	R1	3.75	1.63	0.88	0.28	1.63	2.88	2.00	38.90
5 C 100 Q	10.40	10.00	K-3	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	42.30
5 C 102 R	10.60	10.20	K-2	R1	3.75	1.63	0.88	0.28	1.63	2.88	2.00	40.60
5 C 102 Q	10.60	10.20	K-3	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	39.40
5 C 106 R	11.00	10.60	K-2	R1	3.75	1.63	0.88	0.28	1.63	2.88	2.00	39.00
5 C 106 Q	11.00	10.60	K-3	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	41.00
5 C 110 R	11.40	11.00	K-2	R1	3.75	1.63	0.88	0.28	1.63	2.88	2.00	38.80
5 C 110 Q	11.40	11.00	K-3	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	42.40
5 C 114 Q	11.80	11.40	K-3	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	42.80
5 C 120 R	12.40	12.00	K-2	R1	3.75	1.63	0.88	0.28	1.63	2.88	2.00	47.50
5 C 120 Q	12.40	12.00	K-3	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	46.30
5 C 130 R	13.40	13.00	K-3	R1	3.75	1.63	0.88	0.28	1.63	2.88	2.00	46.00
5 C 130 Q	13.40	13.00	K-3	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	49.50
5 C 140 R	14.40	14.00	K-3	R1	3.75	1.63	0.88	0.28	1.63	2.88	2.00	52.00
5 C 150 R	15.40	15.00	K-3	R1	3.75	1.63	0.88	0.28	1.63	2.88	2.00	54.00
5 C 160 R	16.40	16.00	K-3	R1	3.75	1.63	0.88	0.28	1.63	2.88	2.00	63.00
5 C 160 Q	16.40	16.00	K-3	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	64.50
5 C 180 R	18.40	18.00	K-3	R1	3.75	1.63	0.88	0.28	1.63	2.88	2.00	69.00
5 C 180 S	18.40	18.00	J-3	S1	4.25	0.97	1.06	0.38	0.97	4.38	3.31	100.00
5 C 200 R	20.40	20.00	K-3	R1	3.75	0.63	0.88	0.28	2.63	2.88	2.00	77.00
5 C 200 S	20.40	20.00	J-3	S1	4.25	0.97	1.06	0.38	0.97	4.38	3.31	99.00
5 C 200 Q	20.40	20.00	K-3	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	78.00
5 C 240 R	24.40	24.00	K-3	R1	3.75	0.63	0.88	0.28	2.63	2.88	2.00	110.00
5 C 240 S	24.40	24.00	J-3	S1	4.25	0.97	1.06	0.38	0.97	4.38	3.31	129.00
5 C 240 Q	24.40	24.00	K-3	Q2	2.63	1.25	0.75	0.28	1.25	3.50	2.75	96.00
5 C 270 R	27.40	27.00	J-3	R2	3.63	0.63	0.88	0.28	0.63	4.88	4.00	131.00
5 C 300 R	30.40	30.00	J-3	R2	3.63	0.63	0.88	0.28	0.63	4.88	4.00	150.00
5 C 300 S	30.40	30.00	J-3	S1	4.25	0.97	1.06	0.38	0.97	4.38	3.31	160.00
5 C 360 R	36.40	36.00	J-3	R2	3.63	0.63	0.88	0.28	0.63	4.88	4.00	194.00
5 C 440 R	44.40	44.00	J-3	R2	3.63	0.63	0.88	0.28	0.63	4.88	4.00	243.00
5 C 500 R	50.40	50.00	J-3	R2	3.63	0.63	0.88	0.28	0.63	4.88	4.00	273.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings

1 = Solid

2 = Web

3 = Spoked

C Conventional MST® Bushed Stock Sheaves



C MST® Sheaves

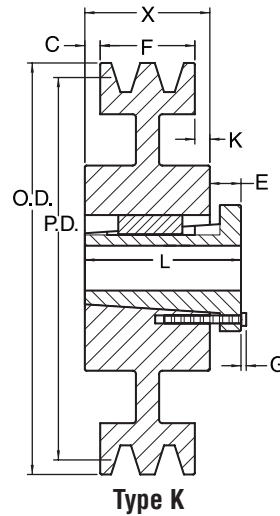
6 Groove F = 6-1/4												
Part Number	OD	PD C Belt	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
6 C 70 Q	7.40	7.00	K-2	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	29.90
6 C 72 Q	7.60	7.20	K-2	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	33.60
6 C 74 Q	7.80	7.40	K-2	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	33.30
6 C 76 Q	8.00	7.60	K-2	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	37.90
6 C 78 Q	8.20	7.80	K-2	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	33.50
6 C 80 Q	8.40	8.00	K-2	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	37.60
6 C 82 Q	8.60	8.20	K-2	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	34.00
6 C 84 Q	8.80	8.40	K-2	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	37.00
6 C 86 Q	9.00	8.60	K-2	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	35.00
6 C 88 Q	9.20	8.80	K-2	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	39.40
6 C 90 R	9.40	9.00	K-2	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	53.00
6 C 90 Q	9.40	9.00	K-2	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	36.80
6 C 92 R	9.60	9.20	K-2	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	58.00
6 C 92 Q	9.60	9.20	K-2	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	41.00
6 C 94 R	9.80	9.40	K-2	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	63.50
6 C 94 Q	9.80	9.40	K-3	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	39.40
6 C 96 R	10.00	9.60	K-2	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	55.00
6 C 96 Q	10.00	9.60	K-3	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	43.60
6 C 98 R	10.20	9.80	K-2	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	65.00
6 C 98 Q	10.20	9.80	K-3	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	42.00
6 C 100 R	10.40	10.00	K-2	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	62.00
6 C 100 Q	10.40	10.00	K-3	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	47.30
6 C 102 R	10.60	10.20	K-2	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	68.00
6 C 102 Q	10.60	10.20	K-3	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	44.40
6 C 106 R	11.00	10.60	K-2	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	55.00
6 C 106 Q	11.00	10.60	K-3	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	45.40
6 C 110 R	11.40	11.00	K-2	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	51.50
6 C 110 Q	11.40	11.00	K-3	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	47.00
6 C 114 Q	11.80	11.40	K-3	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	49.60
6 C 120 R	12.40	12.00	K-2	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	64.00
6 C 120 Q	12.40	12.00	K-3	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	51.00
6 C 130 R	13.40	13.00	K-3	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	61.00
6 C 130 Q	13.40	13.00	K-3	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	56.00
6 C 140 R	14.40	14.00	K-3	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	69.00
6 C 150 R	15.40	15.00	K-3	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	68.00
6 C 160 R	16.40	16.00	K-3	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	77.00
6 C 160 Q	16.40	16.00	K-3	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	72.00
6 C 180 R	18.40	18.00	K-3	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	84.00
6 C 180 S	18.40	18.00	K-3	S1	4.25	1.47	1.06	0.28	1.47	4.38	3.31	107.00
6 C 200 R	20.40	20.00	K-3	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	91.50
6 C 200 S	20.40	20.00	K-3	S1	4.25	1.47	1.06	0.38	1.47	4.38	3.31	127.00
6 C 200 Q	20.40	20.00	K-3	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	88.30
6 C 240 R	24.40	24.00	K-3	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	116.00
6 C 240 S	24.40	24.00	K-3	S1	4.25	1.47	1.06	0.38	1.47	4.38	3.31	125.00
6 C 240 Q	24.40	24.00	K-3	Q2	2.63	1.75	0.75	0.28	1.75	3.50	2.75	108.00
6 C 270 R	27.40	27.00	K-3	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	144.00
6 C 270 S	27.40	27.00	K-3	S1	4.25	1.47	1.06	0.38	1.47	4.38	3.31	151.00
6 C 300 R	30.40	30.00	K-3	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	160.00
6 C 300 U	30.40	30.00	K-3	U0	5.50	1.25	1.19	0.47	1.25	4.94	3.75	191.00
6 C 360 R	36.40	36.00	K-3	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	211.00
6 C 360 U	36.40	36.00	K-3	U0	5.50	1.25	1.19	0.47	1.25	4.94	3.75	233.00
6 C 440 R	44.40	44.00	K-3	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	286.00
6 C 500 R	50.40	50.00	K-3	R2	3.63	1.13	0.88	0.28	1.13	4.88	4.00	303.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings

1 = Solid

2 = Web

3 = Spoked



C MST[®] Sheaves

7 Groove												
F = 7-1/4												
Part Number	OD	PD	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		C Belt										
7 C 70 Q	7.40	7.00	K-2	Q3	2.500	1.500	0.750	0.281	1.500	5.000	0.000	37.50
7 C 80 R	8.40	8.00	K-2	R2	3.625	1.625	0.875	0.281	1.625	4.875	4.000	45.60
7 C 86 R	9.00	8.60	K-2	R2	3.625	1.625	0.875	0.281	1.625	4.875	4.000	52.80
7 C 90 R	9.40	9.00	K-2	R2	3.625	1.625	0.875	0.281	1.625	4.875	4.000	58.00
7 C 92 R	9.60	9.20	K-2	R2	3.625	1.625	0.875	0.281	1.625	4.875	4.000	63.00
7 C 94 R	9.80	9.40	K-2	R2	3.625	1.625	0.875	0.281	1.625	4.875	4.000	68.00
7 C 98 R	10.20	9.80	K-2	R2	3.625	1.625	0.875	0.281	1.625	4.875	4.000	73.00
7 C 100 R	10.40	10.00	K-2	R2	3.625	1.625	0.875	0.281	1.625	4.875	4.000	71.00
7 C 102 R	10.60	10.20	K-2	R2	3.625	1.625	0.875	0.281	1.625	4.875	4.000	76.00
7 C 106 R	11.00	10.60	K-2	R2	3.625	1.625	0.875	0.281	1.625	4.875	4.000	71.00
7 C 110 R	11.40	11.00	K-2	R2	3.625	1.625	0.875	0.281	1.625	4.875	4.000	68.00
7 C 120 R	12.40	12.00	K-2	R2	3.625	1.625	0.875	0.281	1.625	4.875	4.000	67.00
7 C 130 R	13.40	13.00	K-3	R2	3.625	1.625	0.875	0.281	1.625	4.875	4.000	84.00
7 C 140 R	14.40	14.00	K-3	R2	3.625	1.625	0.875	0.281	1.625	4.875	4.000	83.00
7 C 150 R	15.40	15.00	K-3	R2	3.625	1.625	0.875	0.281	1.625	4.875	4.000	86.00
7 C 160 R	16.40	16.00	K-3	R2	3.625	1.625	0.875	0.281	1.625	4.875	4.000	88.00
7 C 180 S	18.40	18.00	J-3	S2	4.188	0.781	1.062	0.375	1.281	6.750	5.688	137.00
7 C 180 U	18.40	18.00	K-3	U0	5.500	1.750	1.188	0.468	1.750	4.938	3.750	133.00
7 C 200 S	20.40	20.00	J-3	S2	4.188	0.781	1.062	0.375	1.281	6.750	5.688	152.00
7 C 200 U	20.40	20.00	K-3	U0	5.500	1.750	1.188	0.468	1.750	4.938	3.750	144.00
7 C 240 S	24.40	24.00	J-3	S2	4.188	0.781	1.062	0.375	1.281	6.750	5.688	173.00
7 C 270 S	27.40	27.00	J-3	S2	4.188	0.781	1.062	0.375	1.281	6.750	5.688	197.00
7 C 270 U	27.40	27.00	K-3	U0	5.500	1.750	1.188	0.468	1.750	4.938	3.750	196.00
7 C 300 S	30.40	30.00	J-3	S2	4.188	0.781	1.062	0.375	1.281	6.750	5.688	220.00
7 C 300 U	30.40	30.00	K-3	U0	5.500	1.750	1.188	0.468	1.750	4.938	3.750	217.00
7 C 360 S	36.40	36.00	J-3	S2	4.188	0.781	1.062	0.375	1.281	6.750	5.688	279.00
7 C 440 S	44.40	44.00	J-3	S2	4.188	0.781	1.062	0.375	1.281	6.750	5.688	337.00
7 C 500 S	50.40	50.00	J-3	S2	4.188	0.781	1.062	0.375	1.281	6.750	5.688	382.00

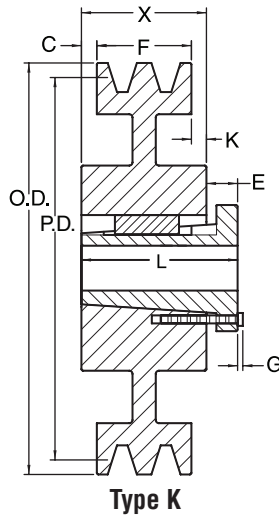
NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings

1 = Solid

2 = Web

3 = Spoked

C Conventional MST® Bushed Stock Sheaves



C MST® Sheaves

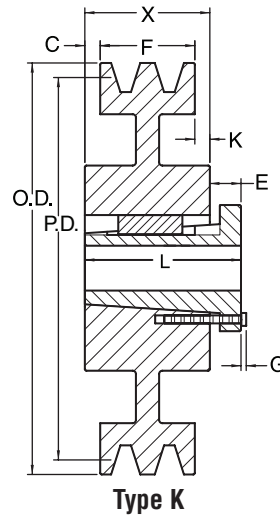
8 Groove												
F = 8-1/4												
Part Number	OD	PD	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		C Belt										
8 C 70 Q	7.40	7.00	K-2	Q3	2.50	1.63	0.75	0.28	2.38	5.00	0.00	40.00
8 C 80 R	8.40	8.00	K-2	R2	3.63	1.63	0.88	0.28	2.63	4.88	4.00	49.00
8 C 86 R	9.00	8.60	K-2	R2	3.63	1.63	0.88	0.28	2.63	4.88	4.00	57.00
8 C 90 R	9.40	9.00	K-2	R2	3.63	1.63	0.88	0.28	2.63	4.88	4.00	62.00
8 C 92 R	9.60	9.20	K-2	R2	3.63	1.63	0.88	0.28	2.63	4.88	4.00	68.00
8 C 94 R	9.80	9.40	K-2	R2	3.63	1.63	0.88	0.28	2.63	4.88	4.00	73.00
8 C 96 R	10.00	9.60	K-2	R2	3.63	1.63	0.88	0.28	2.63	4.88	4.00	70.00
8 C 98 R	10.20	9.80	K-2	R2	3.63	1.63	0.88	0.28	2.63	4.88	4.00	76.00
8 C 100 R	10.40	10.00	K-2	R2	3.63	1.63	0.88	0.28	2.63	4.88	4.00	72.00
8 C 102 R	10.60	10.20	K-2	R2	3.63	1.63	0.88	0.28	2.63	4.88	4.00	79.00
8 C 106 R	11.00	10.60	K-2	R2	3.63	1.63	0.88	0.28	2.63	4.88	4.00	76.00
8 C 110 R	11.40	11.00	K-2	R2	3.63	2.13	0.88	0.28	2.13	4.88	4.00	73.00
8 C 120 R	12.40	12.00	K-2	R2	3.63	2.13	0.88	0.28	2.13	4.88	4.00	74.00
8 C 130 R	13.40	13.00	K-3	R2	3.63	2.13	0.88	0.28	2.13	4.88	4.00	80.00
8 C 140 R	14.40	14.00	K-3	R2	3.63	2.13	0.88	0.28	2.13	4.88	4.00	84.00
8 C 150 R	15.40	15.00	K-3	R2	3.63	2.13	0.88	0.28	2.13	4.88	4.00	93.00
8 C 160 R	16.40	16.00	K-3	R2	3.63	2.13	0.88	0.28	2.13	4.88	4.00	100.00
8 C 180 S	18.40	18.00	K-3	S2	4.19	1.28	1.06	0.38	1.28	6.75	5.69	140.00
8 C 180 U	18.40	18.00	K-3	U0	5.50	2.25	1.19	0.47	2.25	4.94	3.75	141.00
8 C 200 S	20.40	20.00	K-3	S2	4.19	1.28	1.06	0.38	1.28	6.75	5.69	163.00
8 C 200 U	20.40	20.00	K-3	U0	5.50	2.25	1.19	0.47	2.25	4.94	3.75	160.00
8 C 240 S	24.40	24.00	K-3	S2	4.19	1.28	1.06	0.38	1.28	6.75	5.69	194.00
8 C 240 U	24.40	24.00	K-3	U0	5.50	2.25	1.19	0.47	2.25	4.94	3.75	184.00
8 C 270 S	27.40	27.00	K-3	S2	4.19	1.28	1.06	0.38	1.28	6.75	5.69	224.00
8 C 300 S	30.40	30.00	K-3	S2	4.19	1.28	1.06	0.38	1.28	6.75	5.69	212.00
8 C 300 U	30.40	30.00	K-3	U0	5.50	2.25	1.19	0.47	2.25	4.94	3.75	227.00
8 C 360 S	36.40	36.00	K-3	S2	4.19	1.28	1.06	0.38	1.28	6.75	5.69	261.00
8 C 360 U	36.40	36.00	K-3	U0	5.50	2.25	1.19	0.47	2.25	4.94	3.75	288.00
8 C 440 S	44.40	44.00	K-3	S2	4.19	1.28	1.06	0.38	1.28	6.75	5.69	368.00
8 C 440 U	44.40	44.00	K-3	U0	5.50	2.25	1.19	0.47	2.25	4.94	3.75	358.00
8 C 500 S	50.40	50.00	K-3	S2	4.19	1.28	1.06	0.38	1.28	6.75	5.69	429.00
8 C 500 U	50.40	50.00	K-3	U0	5.50	2.25	1.19	0.47	2.25	4.94	3.75	417.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings

1 = Solid

2 = Web

3 = Spoked



C MST[®] Sheaves

10 Groove												
F = 10-1/4												
Part Number	OD	PD	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		C Belt										
10 C 80 R	8.40	8.00	K-2	R2	3.63	1.63	0.88	0.28	4.63	4.88	4.00	70.00
10 C 86 R	9.00	8.60	K-2	R2	3.63	1.63	0.88	0.28	4.63	4.88	4.00	72.00
10 C 90 R	9.40	9.00	K-2	R2	3.63	1.63	0.88	0.28	4.63	4.88	4.00	72.00
10 C 92 R	9.60	9.20	K-2	R2	3.63	1.63	0.88	0.28	4.63	4.88	4.00	70.00
10 C 94 R	9.80	9.40	K-2	R2	3.63	1.63	0.88	0.28	4.63	4.88	4.00	78.00
10 C 96 R	10.00	9.60	K-2	R2	3.63	1.63	0.88	0.28	4.63	4.88	4.00	73.00
10 C 98 R	10.20	9.80	K-2	R2	3.63	1.63	0.88	0.28	4.63	4.88	4.00	88.00
10 C 100 R	10.40	10.00	K-2	R2	3.63	1.63	0.88	0.28	4.63	4.88	4.00	89.00
10 C 102 R	10.60	10.20	K-2	R2	3.63	1.63	0.88	0.28	4.63	4.88	4.00	97.00
10 C 106 R	11.00	10.60	K-2	R2	3.63	1.63	0.88	0.28	4.63	4.88	4.00	84.00
10 C 110 R	11.40	11.00	K-2	R2	3.63	3.13	0.88	0.28	4.63	4.88	4.00	84.00
10 C 120 R	12.40	12.00	K-2	R2	3.63	3.13	0.88	0.28	4.63	4.88	4.00	97.00
10 C 130 R	13.40	13.00	K-3	R2	3.63	3.13	0.88	0.28	4.63	4.88	4.00	102.00
10 C 140 R	14.40	14.00	K-3	R2	3.63	3.13	0.88	0.28	4.63	4.88	4.00	106.00
10 C 150 R	15.40	15.00	K-3	R2	3.63	3.13	0.88	0.28	4.63	4.88	4.00	110.00
10 C 160 R	16.40	16.00	K-3	R2	3.63	3.13	0.88	0.28	4.63	4.88	4.00	111.00
10 C 180 S	18.40	18.00	K-3	S2	4.19	2.28	1.06	0.38	2.28	6.75	5.69	164.00
10 C 180 U	18.40	18.00	K-3	U0	5.50	3.25	1.19	0.47	3.25	4.94	3.75	163.00
10 C 200 S	20.40	20.00	K-3	S2	4.19	2.28	1.06	0.38	2.28	6.75	5.69	170.00
10 C 200 U	20.40	20.00	K-3	U0	5.50	3.25	1.19	0.47	3.25	4.94	3.75	178.00
10 C 240 S	24.40	24.00	K-3	S2	4.19	2.28	1.06	0.38	2.28	6.75	5.69	210.00
10 C 240 U	24.40	24.00	K-3	U0	5.50	3.25	1.19	0.47	3.25	4.94	3.75	208.00
10 C 270 S	27.40	27.00	K-3	S2	4.19	2.28	1.06	0.38	2.28	6.75	5.69	246.00
10 C 300 S	30.40	30.00	K-3	S2	4.19	2.28	1.06	0.38	2.28	6.75	5.69	278.00
10 C 300 U	30.40	30.00	K-3	U1	5.50	2.31	1.50	0.47	2.31	7.13	5.63	298.00
10 C 360 S	36.40	36.00	K-3	S2	4.19	2.28	1.06	0.38	2.28	6.75	5.69	324.00
10 C 360 U	36.40	36.00	K-3	U1	5.50	2.31	1.50	0.47	2.31	7.13	5.63	362.00
10 C 440 U	44.40	44.00	K-3	U1	5.50	2.31	1.50	0.47	2.31	7.13	5.63	463.00
10 C 500 U	50.40	50.00	K-3	U1	5.50	2.31	1.50	0.47	2.31	7.13	5.63	480.00

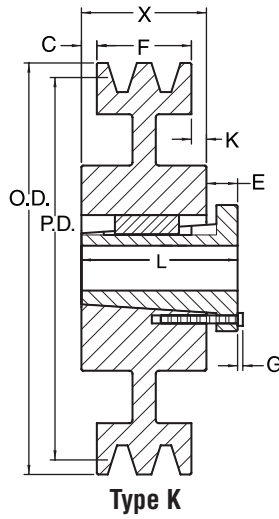
NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings

1 = Solid

2 = Web

3 = Spoked

C Conventional MST® Bushed Stock Sheaves



C MST® Sheaves

12 Groove												
F = 12-1/4												
Part Number	OD	PD	Type	Bush	Bush Max Bore	C	E	G	K	Length Thru Bore	X	Wt. Less Bushing
		C Belt										
12 C 90 S	9.40	9.00	K-2	S2	4.19	2.00	1.06	0.38	4.56	6.75	5.69	88.00
12 C 92 S	9.60	9.20	K-2	S2	4.19	2.00	1.06	0.38	4.56	6.75	5.69	93.00
12 C 94 S	9.80	9.40	K-2	S2	4.19	2.00	1.06	0.38	4.56	6.75	5.69	104.00
12 C 96 S	10.00	9.60	K-2	S2	4.19	2.00	1.06	0.38	4.56	6.75	5.69	102.00
12 C 98 S	10.20	9.80	K-2	S2	4.19	2.00	1.06	0.38	4.56	6.75	5.69	111.00
12 C 100 S	10.40	10.00	K-2	S2	4.19	2.00	1.06	0.38	4.56	6.75	5.69	112.00
12 C 102 S	10.60	10.20	K-2	S2	4.19	2.00	1.06	0.38	4.56	6.75	5.69	121.00
12 C 106 S	11.00	10.60	K-2	S2	4.19	2.00	1.06	0.38	4.56	6.75	5.69	133.00
12 C 110 S	11.40	11.00	K-2	S2	4.19	3.28	1.06	0.38	3.28	6.75	5.69	128.00
12 C 120 S	12.40	12.00	K-2	S2	4.19	3.28	1.06	0.38	3.28	6.75	5.69	140.00
12 C 130 S	13.40	13.00	K-2	S2	4.19	3.28	1.06	0.38	3.28	6.75	5.69	165.00
12 C 140 S	14.40	14.00	K-3	S2	4.19	3.28	1.06	0.38	3.28	6.75	5.69	148.00
12 C 150 S	15.40	15.00	K-3	S2	4.19	3.28	1.06	0.38	3.28	6.75	5.69	162.00
12 C 160 S	16.40	16.00	K-3	S2	4.19	3.28	1.06	0.38	3.28	6.75	5.69	163.00
12 C 180 U	18.40	18.00	K-3	U1	5.50	3.31	1.50	0.47	3.31	7.13	5.63	204.00
12 C 200 U	20.40	20.00	K-3	U1	5.50	3.31	1.50	0.47	3.31	7.13	5.63	224.00
12 C 240 U	24.40	24.00	K-3	U1	5.50	3.31	1.50	0.47	3.31	7.13	5.63	257.00
12 C 270 U	27.40	27.00	K-3	U1	5.50	3.31	1.50	0.47	3.31	7.13	5.63	300.00
12 C 300 U	30.40	30.00	K-3	U1	5.50	3.31	1.50	0.47	3.31	7.13	5.63	327.00
12 C 360 U	36.40	36.00	K-3	U1	5.50	3.31	1.50	0.47	3.31	7.13	5.63	397.00
12 C 440 U	44.40	44.00	K-3	U1	5.50	3.31	1.50	0.47	3.31	7.13	5.63	519.00
12 C 500 U	50.40	50.00	K-3	U1	5.50	3.31	1.50	0.47	3.31	7.13	5.63	551.00

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings

1 = Solid

2 = Web

3 = Spoked

ROLLER CHAIN SPROCKETS

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ROLLER CHAIN SPROCKETS

PRODUCT

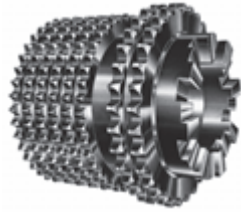
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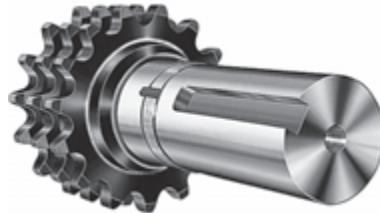
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Multi-Strand Oil Field Sprocket with Clutch Jaws



Triple 160 Shaft Sprocket



Quadruple 160 Sprocket



Triple 200 Sprocket



Double 200 Sprocket and Pinion



Large Triple Strand Sprocket with Mounting Flange



Sprocket with Mud Relief



Standard RC Sprocket with Spline Bore



Special Dryer Sprocket



Special Plastic Sprocket



Block Chain

Martin manufactures numerous Made-To-Order (MTO) sprockets. If you do not see the sprocket you need in this section, call us. Chances are if chain runs on it, we have made the sprocket before. Special materials, special bores, duplex, triplex, double-single-doubles, etc. are all familiar to *Martin*.

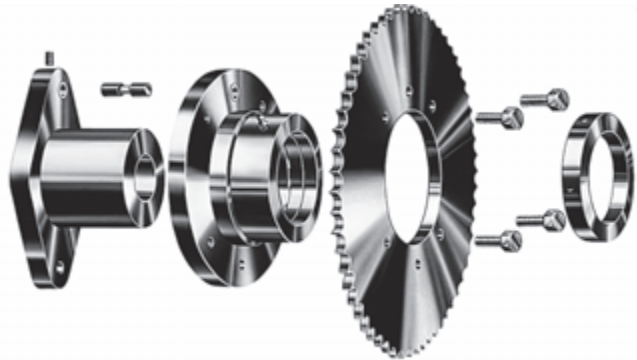
Bolt-On Shear Pin Sprockets



Shear Pin sprockets provide simple, dependable protection against expensive machinery damage caused by overloads or jamming. Torque is transmitted by a single pin, necked to shear when the safe load is exceeded. When an overload occurs, the pin shears, disconnecting the drive immediately.

The Bolt-on Shear Pin Adapter converts any plate sprocket into a stock Shear Pin sprocket allowing immediate delivery of stock Shear Pin sprockets.

Selection guide on page E-6 gives complete procedure to select the proper Shear Pin assembly.



Stock Shear Pin Assemblies

Shear Pin Assembly Number	Hub Bore Range	Shear Pin Hub	Shear Pin Adapter
		Catalog Number	Catalog Number
SP-17	1" & UNDER	SPH-17	SPA-17
SP-18	1 ¹ / ₁₆ - 1 ¹ / ₈	SPH-18	SPA-18
SP-19	1 ¹ / ₈ - 1 ¹ / ₂	SPH-19	SPA-19
SP-20	1 ¹ / ₂ - 1 ³ / ₄	SPH-20	SPA-20
SP-21	1 ³ / ₈ - 2	SPH-21	SPA-21
SP-22	2 ¹ / ₁₆ - 2 ¹ / ₈	SPH-22	SPA-22
SP-23	2 ¹ / ₈ - 2 ¹ / ₂	SPH-23	SPA-23
SP-24	2 ¹ / ₄ - 2 ³ / ₈	SPH-24	SPA-24
SP-25	2 ³ / ₈ - 3	SPH-25	SPA-25
SP-26	3 ¹ / ₁₆ - 3 ¹ / ₈	SPH-26	SPA-26
SP-27	3 ¹ / ₈ - 4	SPH-27	SPA-27
SP-28	4 ¹ / ₁₆ - 4 ¹ / ₈	SPH-28	SPA-28
SP-29	4 ¹ / ₈ - 5	SPH-29	SPA-29
SP-30	4 ¹ / ₂ - 5 ¹ / ₂	SPH-30	SPA-30
SP-31	5 ¹ / ₁₆ - 6	SPH-31	SPA-31

Notes on Pricing:

Shear Pin Hub List Price includes any finished bore within the stated range, standard keyway, setscrew, and hardened steel shear pin bushing.

Shear Pin Adapter List Price includes the Shear Pin bushin and grease fitting.

Complete Assembly List Price includes all components of the Shear Pin assembly as described above. Total list price of any Shear Pin sprocket is the complete assembly list price plus the list price of the desired plate sprocket (from tables of stock sprocket list prices).

Replacement Sprockets should be priced as altered stock sprockets directly from List Price and Alteration Charge tables.

Shear Pin Components may be ordered separately and will be treated as stock items when conforming to standard specifications and descriptions above.

Pricing Examples:

1. Stock Shear Pin Sprocket

To price a 35 tooth shear pin sprocket for 160 chain (160SP35) using SP-26 shear pin assembly with 3¹/₁₆" bore, standard keyway and setscrew:

SP-26 Assembly List Price.....
160A35 List Price.....
Total List Price.....

See List
Price Sheet

2. Shear Pin Adapter and Sprocket for Existing Hub

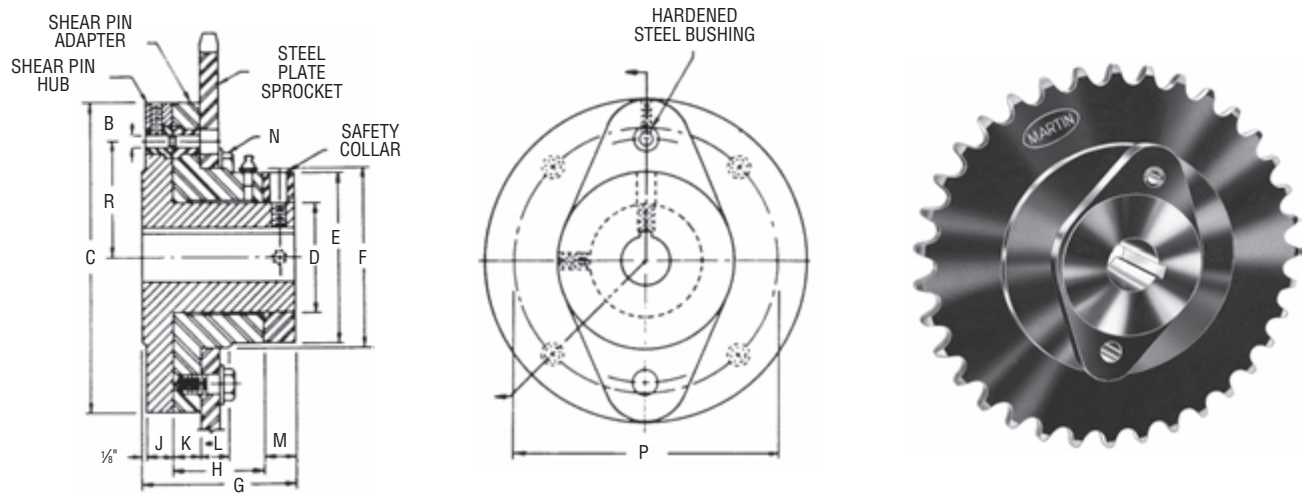
To price a "Bolt-on" shear pin adapter and sprocket to replace the sprocket part of existing 50SP40 using SP-19 hub:

SPA-19 Adapter List Price.....
50A40 List Price.....
Total List Price.....

See List
Price Sheet

Shear Pin Sprockets can also be furnished in other standard styles or made to customer's specifications. Price on application.

It is important that the torque requirement for the selected hub be checked in the torque rating table on page E-6 and the neck diameter of Shear Pin be specified.



Shear Pin Assembly Dimensions (Inches)

Table I

Shear Pin Assembly Number	Shear Pin		Diameters				Length Thru			Hub Flange Thickness	Adapt. Flange Thickness	Sprocket Seat Width	Bolts		Weights Lbs. (Approx.)	
	Radius	Pin Dia.	Flange	Shear Pin Hub	Adapt. Hub & Collar	Sprocket Seat	Shear Pin Hub	Adapt.	Collar				Number & Size	Bolt Circle	Shear Pin Hub	Shear Pin Adapt.
SP-17	1 1/16	1/4	5 1/4	1 1/4	2 1/2	2 3/4	2 1/16	1 3/8	3/8	3/16	3/16	7/16	4 - 3/8"	4	2.7	3.2
SP-18	2 3/16	1/4	6	2 1/4	3 1/4	3 3/4	2 3/16	1 3/4	1/2	3/16	3/16	4 - 3/8"	4 3/4"	4.6	4.7	
SP-19	2 3/16	3/16	6 3/4	2 3/4	4	4 1/4	3 3/16	2 1/2	3/8	1/16	1/16	4 - 1/2"	5 1/2"	7.2	7.6	
SP-20	3	3/8	7 3/4	3 1/4	4 3/4	4 3/4	4 3/16	2 1/2	3/4	1 3/16	1 3/16	4 - 1/2"	6 3/4"	11.0	11.9	
SP-21	3 3/16	7/16	8 3/4	3 3/4	5 1/4	5 3/4	4 3/16	2 3/4	7/8	1 3/16	1 3/16	4 - 3/8"	7	16.2	16.9	
SP-22	3 3/16	1/2	9 3/4	4 3/4	6 1/4	6 3/4	5 3/16	3	1	1 1/16	1 1/16	4 - 3/8"	8	23.3	24.5	
SP-23	4	1/2	10	4 1/2	6 1/2	6 3/4	5 1/16	3 1/2	1	1 1/16	1 1/16	4 - 5/8"	8 3/4"	26.3	27.7	
SP-24	4 3/4	3/16	11 1/2	5	7	7 3/4	6 3/16	3 3/4	1 1/8	1 3/16	1 3/16	4 - 5/8"	9 3/4"	40.4	38.6	
SP-25	4 3/4	3/8	12 1/2	5 1/2	8	8 3/4	6 3/16	4 3/4	1 1/4	1 3/16	1 3/16	6 - 5/8"	10 1/4"	52.6	53.6	
SP-26	5 5/16	1/16	13 3/4	6 3/4	8 3/4	8 3/4	7 1/16	4 3/4	1 3/8	1 1/16	1 1/16	6 - 3/8"	11 1/4"	66.7	66.8	
SP-27	6 3/16	3/4	15 1/2	7	10	10 1/2	8 1/16	5 1/2	1 1/2	1 3/16	1 1/2	6 - 5/8"	12 3/4"	96.5	100.0	
SP-28	6 3/16	3/4	16 3/4	7 3/4	10 3/4	10 3/4	9 1/16	6 3/4	1 3/4	1 3/16	1 1/2	6 - 3/4"	13 1/2"	125.0	115.0	
SP-29	7 1/8	3/8	17 1/2	8 1/2	12	12 1/2	10 1/16	7	1 3/4	2 1/16	1 1/2	6 - 1"	14 3/4"	160.0	150.0	
SP-30	8 1/4	1	20 3/4	9 3/4	13 3/4	13 3/4	11 1/16	7 3/4	2	2 3/16	1 1/2	6 - 1"	17	215.0	207.0	
SP-31	8 1/4	1 1/8	22 3/4	10 3/4	15	15 3/4	12 1/16	8 3/4	2 1/4	2 3/16	1 1/2	6 - 1"	18 3/4"	318.0	265.0	

NOTE: Shear Pin "Pin" length equals 2 x "J" dimension.

Sprocket Sizes For Stock Shear Pin Assemblies

Table II

Shear Pin Assembly Number	Hub Bore Range	Minimum Number of Teeth for Single Sprockets													
		Chain Number													
		35	41	40	50	60	80	100	120	140	160	180	200	240	
SP-17	1" & UNDER	48	37	37	30	26	—	—	—	—	—	—	—	—	
SP-18	1 1/16 - 1 1/4	55	42	42	34	29	23	—	—	—	—	—	—	—	
SP-19	1 1/16 - 1 1/2	61	46	47	38	32	25	21	—	—	—	—	—	—	
SP-20	1 1/16 - 1 3/4	69	53	53	43	36	28	23	—	—	—	—	—	—	
SP-21	1 1/16 - 2	78	59	59	48	41	31	26	22	19	—	—	—	—	
SP-22	2 1/16 - 2 1/4	86	65	66	53	45	34	28	24	21	19	17	—	14	
SP-23	2 3/16 - 2 1/2	89	67	67	55	46	35	29	25	22	19	18	16	14	
SP-24	2 3/16 - 2 3/4	101	76	77	62	52	40	33	28	24	22	20	18	16	
SP-25	2 3/16 - 3	110	83	83	67	56	43	35	30	26	23	21	19	17	
SP-26	3 1/16 - 3 1/2	—	98	98	72	61	46	38	32	28	25	23	20	18	
SP-27	3 3/16 - 4	—	102	102	82	69	53	43	36	32	28	25	23	20	
SP-28	4 1/16 - 4 1/2	—	107	107	86	72	55	45	38	33	29	26	24	21	
SP-29	4 3/16 - 5	—	—	—	92	77	59	48	40	35	31	28	26	22	
SP-30	5 1/16 - 5 1/2	—	—	—	106	89	68	55	46	40	35	32	29	25	
SP-31	5 3/16 - 6	—	—	—	—	98	75	61	51	44	39	35	32	27	

Bolt-On Shear Pin Sprockets



Shear Pin Sprocket Selection

- The shear pin assembly required is determined by the shaft size. Select the smallest shear pin assembly which will accommodate the required bore. Table on page E-5 contains the bore ranges and minimum sprocket sizes which allow chain clearance over the shear pin assembly flange.
- Using one of the following formulas, compute the torque load the pin must transmit and find the value in the torque rating table below to obtain the proper shear pin neck diameter.

$$T = \frac{HP \times 63,025 \times 1.5}{RPM} \quad \text{or} \quad T = \frac{D \times CP \times 1.5}{2}$$

or T = Output of reducer × speed ratio of chain drive × 1.5

- Where:
- T = Torque in pound inches
 - HP = Horsepower at Sprocket
 - RPM = Sprocket Speed
 - D = Pitch Diameter of Sprocket
 - CP = Chain pull in pounds
 - 1.5 = Safety factor for starting load

Example:

- Determine the shear pin assembly and pin neck diameter to transmit 20 horsepower at 67 RPM with a 45 tooth, No. 100 sprocket on a 2¹⁵/₁₆" shaft.
 - Referring to Table II (page E-5), shear pin assembly SP-25 is required for a 2¹⁵/₁₆" bore. The 45 tooth sprocket is well above the minimum size.
 - Torque and neck diameter:

$$T = \frac{HP \times 63,025 \times 1.5}{RPM}$$

$$T = \frac{20 \times 63,025 \times 1.5}{67} = 28,200 \text{ lb. in.}$$
 Referring to Table III (below) under SP-25, a pin necked to ³/₈" shows a torque rating of 29,810 lb. in., which exceeds the 28,200 lb. in. required.
 - Order: 100SP45, SP-25 assembly with 2¹⁵/₁₆" bore and ³/₈" pin neck diameter.

Shear Pin Torque Ratings

Table III

Shear Pin Neck Diameter (inches)	TORQUE RATING — POUND INCHES														
	Shear Pin Hub Number														
	SP17	SP18	SP19	SP20	SP21	SP22	SP23	SP24	SP25	SP26	SP27	SP28	SP29	SP30	SP31
³ / ₃₂	728	875	1022	1204	1323	1556	1603								
¹ / ₈	1248	1500	1752	2064	2268	2616	2748								
⁵ / ₃₂	1976	2375	2774	3268	3591	4142	4351	4750							
³ / ₁₆	2808	3375	3942	4944	5103	5886	6183	6750	7317						
⁷ / ₃₂	3848	4625	5402	6364	6993	8066	8473	9250	10027						
¹ / ₄	5200	6250	7300	8600	9450	10900	11450	12500	13550	15200	17300	18400			
⁹ / ₃₂			9052	10664	11718	13516	14198	15500	16802	18848	21452	22816			
⁵ / ₁₆			11096	13072	14364	16568	17403	19000	20596	23140	26296	27968	30932		
¹¹ / ₃₂				15824	17388	20056	21068	23000	24932	27968	31832	33856	37440		
³ / ₈				18920	20790	23980	25190	27500	29810	33440	38060	40480	44770	51040	
¹³ / ₃₂					24570	28340	29170	32500	35230	39520	44980	47840	52910	60320	
⁷ / ₁₆					28350	32700	34350	37500	41650	45600	51900	55200	61050	69600	
¹⁵ / ₃₂						37060	38930	42500	46070	51680	58820	62560	69190	78880	
¹ / ₂						42728	44884	49000	53116	59584	67816	72128	79772	90944	
¹⁷ / ₃₂								55000	59620	66880	76120	80960	89540	102080	
⁹ / ₁₆								62000	67280	75392	85808	91264	100936	115072	
¹⁹ / ₃₂									73220	82080	93420	99360	109890	125280	136890
⁵ / ₈									82800	92720	105530	112240	124135	141520	154635
²¹ / ₃₂										103360	117640	126120	138380	157760	172380
¹¹ / ₁₆										112480	128020	136160	150590	171680	187590
²³ / ₃₂											138400	147200	162800	185600	202800
³ / ₄											152240	161920	179080	204160	223080
²⁵ / ₃₂													195360	222720	243360
¹³ / ₁₆													211640	241280	263640
²⁷ / ₃₂													227920	259840	283920
⁷ / ₈													244200	278400	304200
²⁹ / ₃₂														296960	324480
¹⁵ / ₁₆														301600	329550
³¹ / ₃₂														338720	370110
1														371200	405600
1 ¹ / ₁₆															446160

Type D Sprockets — Stock Detachable Hubs

Type D sprockets consist of a Type A plate sprocket bolted to a detachable hub. A solid or split plate sprocket may be assembled to a solid or split hub. When ordering a Type D sprocket, be sure to select a plate sprocket large enough to allow chain clearance over the hub flange diameter, dimension D.

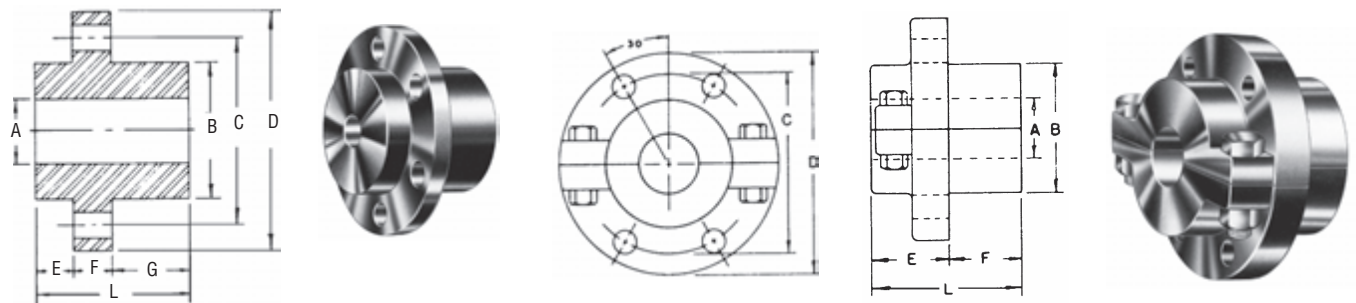
Bolt holes of Type D hubs are drilled for interchangeability. Speed ratios may be changed simply by removing the plate sprocket and substituting another with a different number of teeth. When worn, the sprocket may be reversed to use the unworn tooth surfaces, increasing the life of the sprocket.

Split Hubs-Cast Iron — Dimensions (Inches)

Hub Number	Bore Range A		Hub Diameter B	Bolt Circle C	Flange Diameter D	Bolt Holes		E	F	L	Wt. Lbs. (Approx.)
	Stock	*Maximum				Number	Bolt Size				
102S	1 ¹ / ₁₆	1 ¹ / ₂	3	4	5	4	7 ⁷ / ₁₆	1 ¹ / ₄	1 ¹ / ₂	3 ³ / ₂	7.7
103S	1 ¹ / ₁₆	2 ¹ / ₄	4	5 ⁵ / ₁₆	6	4	1/2	2	1 ¹ / ₂	3 ³ / ₂	14.5
104S	2 ² / ₁₆	2 ² / ₂	4 ¹ / ₂	5 ⁵ / ₄	7	4	5/8	2 ¹ / ₄	1 ¹ / ₄	4	18.3
105S	2 ² / ₁₆	2 ³ / ₄	5	6 ⁶ / ₄	7 ⁷ / ₂	4	5/8	2 ¹ / ₄	1 ¹ / ₄	4 ⁴ / ₂	23.6
106S	2 ³ / ₁₆	3 ³ / ₄	5 ⁵ / ₂	7	8 ⁸ / ₂	4	5/8	2 ¹ / ₄	2	4 ⁴ / ₂	28.2
107S	3 ³ / ₁₆	3 ³ / ₂	6	7 ⁷ / ₂	9	4	5/8	3	1 ¹ / ₄	4 ⁴ / ₂	37.4
108S	3 ³ / ₁₆	4	7	8 ⁸ / ₂	10 ¹⁰ / ₂	4	3/4	3 ³ / ₈	1 ¹ / ₄	5 ⁵ / ₄	55.1
109S	4 ⁴ / ₁₆	6	10 ¹⁰ / ₂	13	15 ¹⁵ / ₂	4	1	4 ⁴ / ₂	1 ¹ / ₄	5 ⁵ / ₂	155.0

*Maximum bores shown are maximum bores with standard keyseat and setscrew.

To obtain the price of a complete Type D sprocket, add the list price of hub, plus alteration charges and the list price of the desired Type A plate sprocket, including rebores, bolt hole drilling, and splitting charge if desired. These hubs may also be used with Accu-Torch Sprockets.



Alteration Charges

See current discount sheet for alteration charges.

Solid Hubs-Steel — Dimensions (Inches)

Hub Number	Bore Range A		Hub Diameter B	Bolt Circle C	Flange Diameter D	Bolt Holes		E	F	G	L	Wt. Lbs. (Approx.)
	Stock	*Maximum				Number	Bolt Size					
101	5/8	1 ¹ / ₄	2 ¹ / ₂	3 ³ / ₄	4 ⁴ / ₂	6	3/8	1/2	3/8	1 ¹ / ₂	2	3.4
102	1 ¹ / ₁₆	2	3	4	5	6	7 ⁷ / ₁₆	1/2	1/2	1 ¹ / ₂	2 ² / ₂	5.4
103	1 ¹ / ₁₆	2 ¹ / ₂	4	5 ⁵ / ₁₆	6	6	1/2	1/2	5/8	1 ¹ / ₂	2 ² / ₂	10.2
104	2 ² / ₁₆	3	4 ¹ / ₂	5 ⁵ / ₄	7	6	5/8	1/2	3/4	2	3 ³ / ₄	14.2
105	2 ² / ₁₆	3 ³ / ₄	5	6 ⁶ / ₄	7 ⁷ / ₂	6	5/8	3/8	1 ¹ / ₁₆	2 ² / ₂	4	22.2
106	2 ³ / ₁₆	3 ³ / ₄	5 ⁵ / ₂	7	8 ⁸ / ₂	6	5/8	5/8	1	2 ² / ₂	4	28.4
107	3 ³ / ₁₆	4	6	7 ⁷ / ₂	9	6	5/8	5/8	1 ¹ / ₄	2 ² / ₂	4 ⁴ / ₂	34.7
108	3 ³ / ₁₆	4 ⁴ / ₂	7	8 ⁸ / ₂	10 ¹⁰ / ₂	6	3/4	5/8	1 ¹ / ₄	2 ² / ₂	4 ⁴ / ₂	52.4
109	4 ⁴ / ₁₆	7	10 ¹⁰ / ₂	13	15 ¹⁵ / ₂	6	1	3/4	1 ¹ / ₂	2 ² / ₂	5	143.0

*Maximum bores shown are maximum bores with standard keyseat and setscrew.

All Steel Instant Split® Sprocket



Manufactured from stock plate sprockets, *Martin's* Instant Split-Sprocket offers unlimited design and is simply installed with a hand wrench . . . greatly reducing costly downtime.



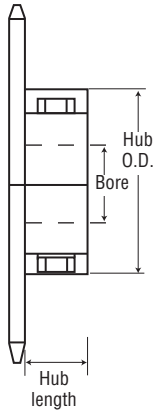
Single-Style B and C — Steel-Instant Split-Sprocket

Hub Number	Bore	Hub O.D.	Hub* Length	Bolts	Wt. Lbs. (Approx.)
S-1	3/4" - 1 1/2"	3 3/8"	1"	3/8" x 2 1/4"	1.8
S-2	1 1/8" - 2 1/4"	4 3/8"	1 1/2"	1/2" x 3"	4.1
S-3	2" - 3"	6"	1 3/8"	5/8" x 4 1/2"	8.4
S-4	2 3/4" - 4"	7 5/8"	1 1/2"	3/4" x 5 1/2"	14.4
S-5	3 3/4" - 5"	9 1/4"	2"	1" x 6"	27.8
S-6	4 3/4" - 6"	10 1/4"	2 1/4"	1" x 6"	35.4
S-7	5 3/4" - 7"	12 1/2"	2 1/2"	1" x 7"	64.4
S-8	6 3/4" - 8"	14 1/2"	3"	1" x 8"	98.5

*Add hub length to plate thickness to determine length thru bore.

For style C, add hub length x 2.

TOTAL LIST PRICE OF *Martin* SPLIT-SPROCKET IS SIMPLY THE HUB PRICE PLUS THE PLATE PRICE.

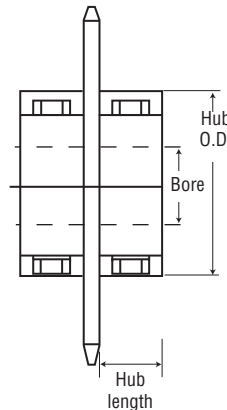


PRICING EXAMPLE STYLE B

**120B45 Split with S-3 Hub,
2 15/16" Bore, KW & SS**

**S-3 Hub
120A45 Plate**

SEE HUB LIST
+ SEE PLATE LIST
TOTAL LIST PRICE



PRICING EXAMPLE STYLE C

**120C45 Split with S-3 Hubs,
2 15/16" Bore, KW & SS**

**Two S-3 Hubs
120A45 Plate**

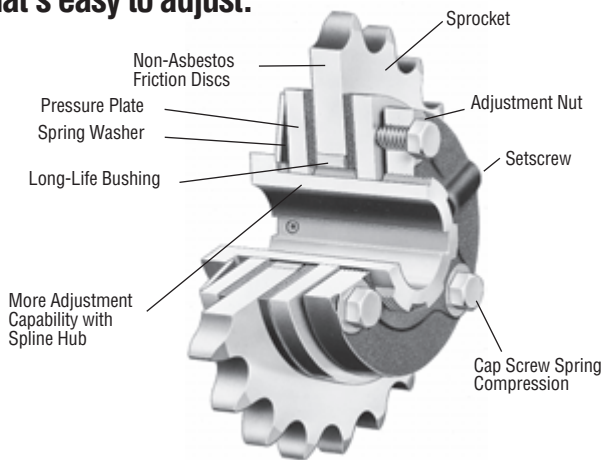
SEE HUB LIST
+ SEE PLATE LIST
TOTAL LIST PRICE

Instant Split Hubs are for use with plate sprockets only. For multiple strand split sprockets, consult *Martin*.

Sprocket Size For Instant Split Hubs

Split Hub No.	Bore	Minimum Number of Teeth for Single Sprockets										
		Chain Number										
		40	50	60	80	100	120	140	160	180	200	240
S-1	3/4" - 1 1/2"	28	23	20	16	—	—	—	—	—	—	—
S-2	1 1/8" - 2 1/4"	38	30	26	20	—	15	14	—	—	—	—
S-3	2" - 3"	46	37	32	25	20	18	16	15	14	—	—
S-4	2 3/4" - 4"	—	48	40	30	25	21	19	17	16	15	12
S-5	3 3/4" - 5"	—	—	—	—	30	25	22	20	18	17	14
S-6	4 3/4" - 6"	—	—	—	—	32	27	24	22	19	18	15
S-7	5 3/4" - 7"	—	—	—	—	—	32	28	25	22	21	18
S-8	6 3/4" - 8"	—	—	—	—	—	—	—	28	25	23	20

Martin TORQUE-LIMITER clutch offers thrifty overload protection that's easy to adjust.



Here is low cost protection for your machinery . . . a torque limiting clutch that is easy to install.

Torque-Limiter clutches feature an exclusive "Easy-Set Adjustment." With "Easy-Set," torque adjustment is accomplished quickly! The need for hammer and block, brute strength, and spanner wrenches is eliminated.

These simple steps and the job is done:

1. Snug up the adjusting nut, finger tight, locate set screw over nearest spline notch, and tighten. See table at right.
2. Tighten three cap screws until heads bottom — with a small wrench; this gives maximum torque.
3. For less torque — back off the cap screws, loosen the set screw, back off adjusting nut to one of the six spline notches as required, and retighten set screw and cap screws.

"Easy-Set Adjustment" not only simplifies installation, it provides solid support for pressure plates by compression at their peripheries.

The Torque-Limiter clutch gives machinery permanent protection against overloads during starting, reversing, or driving — by slipping at any desired load. It resumes driving without resetting when the overload is relieved. It is simple in design, compact, efficient, and built for long life. It provides low cost torque limiting service for a wide variety of applications. No lubrication . . . minimum maintenance.

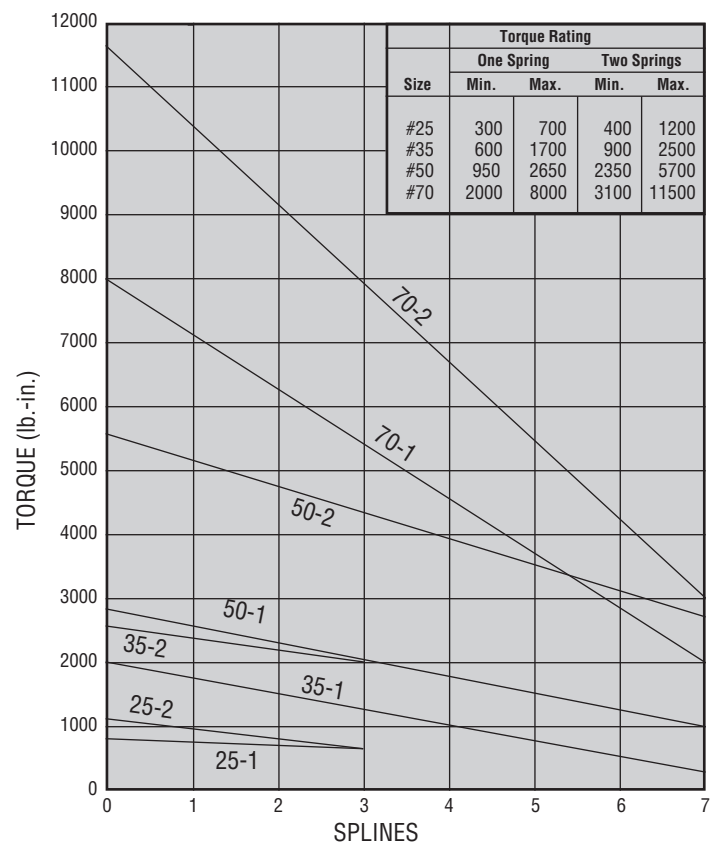
Starting shock from electric motors is a major cause of maintenance of moving parts. Torque-Limiter clutches provide a cushion by slipping until the torque drops to a pre-set level. They can be set to reduce shock loads on motors and driven equipment during reversing or inching. They provide mechanical protection against breakage due to sudden overload — by slipping when the pre-set torque limit is reached.

Torque-Limiter clutches may be used with a sprocket, gear, sheave, flange, or other driven member. It is recommended that the rubbing sides of the driven member be ground to provide a smooth rubbing surface of 63 to 125 micro-inches. See torque rating table on following page.

The driven member is mounted on an oil-impregnated bushing and clamped between two, high quality friction discs by spring pressure. Each Torque-Limiter unit, completely assembled, contains one spring. Higher torque ratings can be obtained by the use of a second spring nested within the original spring. See rating table on following page.

When an overload occurs, the driven member slips between long-life, clutch-type friction discs. After slipping has started, it will continue at approximately 90% of the torque setting, due to the lower coefficient of friction when slipping, until the overload condition has been corrected.

TORQUE-LIMITER CLUTCH CALIBRATION



Note:

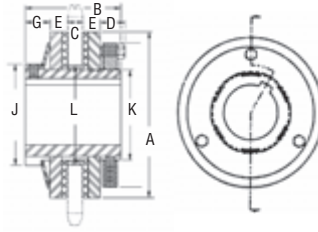
Graph indicates approximate rated torque vs. number of splines adjusting nut is backed off from finger tight.

Torque-Limiter Clutches



Each assembled unit contains one spring. Higher ratings can be obtained by ordering a second spring to nest in the original one. Bushings need to be ordered separately, if required.

The rubbing sides of the center member should be ground parallel — 63 to 125 micro-inches.



Torque-Limiter Clutch Ratings

Size No.	Avg. Wt.	Torque Rating ▲ (Pound-Inches)				C		D	E	G ✦	H	J	K +.000 - .002 Spline O. D.	L +.003 - .000 Spkt. Bore
		With One Spring		With Two Springs**		Min.	Max.							
		Min.	Max.	Min.	Max.									
TT25	1.0	300	700	400	1200	2½	1¼	⅜	⅜	⅜	2½	1½	1.368	1.631/1.628
TT35	2.5	600	1700	900	2500	3½	2¼	⅜	⅜	⅜	3¾	1⅞	1.675	2.006/2.003
TT50	6.0	950	2650	2350	5700	5	2½	⅜	⅜	⅜	4¾	2¾	2.625	3.008/3.005
TT70	18.0	2100	8000	3100	11500	7	3½	⅜	⅜	⅜	6	4	3.811	4.197/4.194

▲ Using a center member with rubbing sides ground parallel — 63 to 125 micro-inches. Center member must be clean and free from oil, rust, etc.

** Second spring may be nested in one originally furnished. Order if required.

✦ Nominal for maximum torque setting. For minimum torque setting, add ⅜" for No. 25; ⅜" for No. 35; ⅜" for Nos. 50 and 70. When two springs are used this dimension is increased approximately ⅜" on Nos. 25, 35 and 50 — ⅜" on No. 70.

Stock Bores — Torque Limiters (No KW 1-SS†)

Size No.	Stock Bore	Max. Bore	
		Std. KW*	Shallow KW*
TT25	⅜	⅜	1
TT35	⅜	1⅞	1¼
TT50	1	1¾	2
TT70	1½	2¾	3

† For additional SS see List Price Alterations.

* KW to be cut central w/threaded spline.

Standard Keyways

Torque-Limiter Bore	Keyway	Torque-Limiter Bore	Keyway
⅜ - ⅞	⅜ × ⅜	1⅞ - 1¼	⅜ × ⅜
⅞ - 1	⅜ × ⅜	1⅞ - 2¼	⅜ × ⅜
1⅞ - 1¼	⅜ × ⅜	2⅞ - 2¾	⅜ × ⅜
1⅞ - 1¾	⅜ × ⅜	2⅞ - 3	⅜ × ⅜

Bored to Size Torque Limiters w/Std. KW & 1-SS†

Size No.	Finished Bores											
	⅜	⅜	⅜	⅜	1	1½	1⅞	1¼	1¾	1⅞	1½	1¾
TT25												
TT35					1							
TT50					1	1½	1⅞	1¼	1¾	1⅞	1½	1¾
TT70									1⅞	1½		1¾

† KW same as std. listed in tables above. For additional SS see List Price.

Unit Size	Sprocket Pitch	Min. Allowable Sprocket Teeth and Length of Bushing Req'd for Chain Number										
		35	41	40	50	60	80	100	120	140	160	
TT25	Min. Teeth	STOCK ★	25	19	19	16	..	..	..	..	..	..
		MTO ●	25	19	19	16	..	..	..	..	..	..
	Bush. Lght. Req'd.		⅜	⅜	⅜	⅜	..	..	..	..	..	..
TT35	Min. Teeth	STOCK ★	35	25	26	21	18	15	..	..	..	..
		MTO ●●	33	25	26	21	18	15	..	..	..	..
	Bush. Lght. Req'd.		⅜	⅜	⅜	⅜	⅜	⅜	..	..	..	..
TT50	Min. Teeth	STOCK ★	48	35	35	29	25	19	..	..	..	..
		MTO ●●●	46	35	35	29	25	19	..	..	..	..
	Bush. Lght. Req'd.		⅜	⅜	⅜	⅜	⅜	⅜	..	..	..	..
TT70	Min. Teeth	STOCK ★	..	..	48	38	33	26	21	18	16	14
		MTO ●●●	..	..	48	38	33	26	21	18	16	14
	Bush. Lght. Req'd.		..	..	⅜	⅜	⅜	⅜	⅜	⅜*	⅜*	1◆◆

★ Min. number of teeth on sprocket stocked by Martin which can be used w/Torque-Limiter clutch.

● Min. number of teeth on made-to-order sprocket which will permit chain to clear friction disc.

* Use one ⅜" long bushing and one ⅜" long.

◆◆ Use two ⅜" long bushings.

Face and Bored to Fit the Martin Torque Limiter

UNIT TT25

Sprocket Size
35TTA25-25
35TTA26-25
40TTA20-25
40TTA22-25
40TTA24-25
40TTA28-25
40TTA30-25
50TTA28-25
40TTA30-25
50TTA17-25
50TTA21-25
50TTA22-25

UNIT TT35

Sprocket Size
35TTA35-35
35TTA40-35
40TTA28-35
40TTA30-35
40TTA32-35
50TTA22-35
50TTA24-35
50TTA25-35
50TTA26-35
60TTA18-35
60TTA20-35

UNIT TT50

Sprocket Size
40TTA35-50
50TTA30-50
50TTA32-50
60TTA25-50
60TTA26-50
60TTA28-50
60TTA30-50
80TTA20-50
80TTA22-50
80TTA24-50

UNIT TT70

Sprocket Size
60TTA36-70
80TTA26-70
80TTA28-70
80TTA30-70
80TTA36-70
100TTA22-70
100TTA24-70

SPARE PARTS

TT25 TT50 TT35 TT70	QTY. REQ. *
PRESSURE PLATE	2
FRICTION DISC	2
ADJ. NUT ASSY. & S.S.	1
ADJ. TENSION NUT	3
HUB	1

* PER UNIT



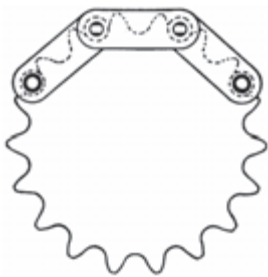


**Standard Roller
Double Duty**

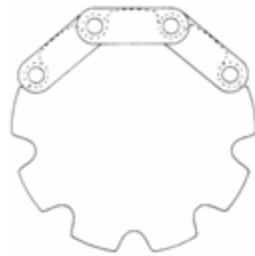


**Carrier
Roller**

Double-Pitch Sprockets



Standard Rollers



**Double Pitch
Single Duty
Made-To-Order**



Carrier Rollers

Series C-2000 chains have rollers of the same diameters and widths as American Standard Roller Chains of one half the conveyor chain pitch. Engaged by every other tooth, double duty sprockets have two teeth per chain pitch. During each revolution only half the teeth function effectively. Sprockets with odd numbers of teeth will allow any given tooth to engage only on every other revolution, automatically increasing sprocket life. Double duty sprockets with even number of teeth may be manually advanced one tooth periodically to increase sprocket life. *Martin* Stock C-2000 series sprockets are furnished double duty only.

Sprockets for the C-2002 series chain with carrier rollers are cut with space cutters or standard hobs for the American Standard roller Chain of the same diameter. Each sprocket tooth meshes with these chains. Double-duty sprockets cannot be made for double pitch chain with Carrier Rollers.

NOTE: For drives of 31 teeth or more we recommend using Standard sprockets with series C-2000 chains.

All altered double pitch sprockets requiring a keyway will be furnished with keyway on center line of tooth, unless otherwise specified.

Double Pitch All Steel Stock Sprockets

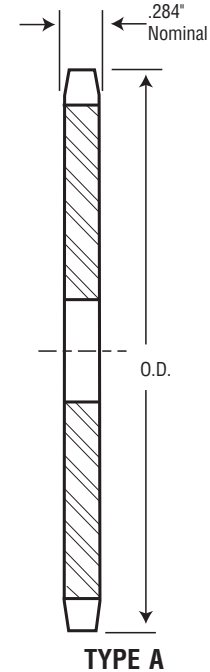


1-Inch Double-Pitch

Conveyor or Drive Series — Standard Roller Double Pitch — 2040/C2040

No. Teeth Actual	Eff. No. Teeth	Outside Diameter	Pitch Diameter	Catalog Number	Type	Bore		Hub		Wt. Lbs. (Approx.)
						Stock	Rec. Max.	Diameter	Length Thru Bore	
11	5.5	2.000	1.852	2040B11	B	1/2	1/16	1 1/8*	3/8	.34
12	6.0	2.170	2.000	2040B12	B	1/2	1/16	1 1/8*	3/8	.44
13	6.5	2.330	2.152	2040B13	B	1/2	2/32	1 1/8*	3/8	.48
14	7.0	2.490	2.305	2040B14	B	1/2	1 1/32	1 1/8*	3/8	.60
15	7.5	2.650	2.458	2040B15	B	5/8	1 1/32	1 3/8	3/8	.66
16	8.0	2.810	2.613	2040B16	B	5/8	1 1/32	1 3/8	3/8	.76
17	8.5	2.980	2.768	2040B17	B	5/8	1 1/16	2 3/4	1	1.00
18	9.0	3.140	2.924	2040B18	B	5/8	1 1/32	2 1/2	1	1.16
19	9.5	3.300	3.080	2040B19	B	5/8	1 1/8	2 3/8	1	1.36
20	10.0	3.460	3.236	2040B20	B	5/8	1 1/4	2 5/8	1	1.54
21	10.5	3.620	3.392	2040B21	B	5/8	1 3/8	2 3/4	1	1.74
22	11.0	3.780	3.549	2040B22	B	5/8	1 1/2	2 1/2	1	1.92
23	11.5	3.940	3.706	2040B23	B	5/8	2	3	1	2.16
24	12.0	4.100	3.864	2040B24	B	5/8	2 1/4	3 1/4	1	2.44
25	12.5	4.260	4.021	2040B25	B	5/8	2 1/4	3 1/4	1	2.48
26	13.0	4.420	4.179	2040B26	B	5/8	2 1/4	3 1/4	1	2.60
28	14.0	4.740	4.494	2040B28	B	5/8	2 1/4	3 1/4	1	2.74
30	15.0	5.060	4.810	2040B30	B	5/8	2 1/4	3 1/4	1	2.92

* Has recessed groove in hub for chain clearance.



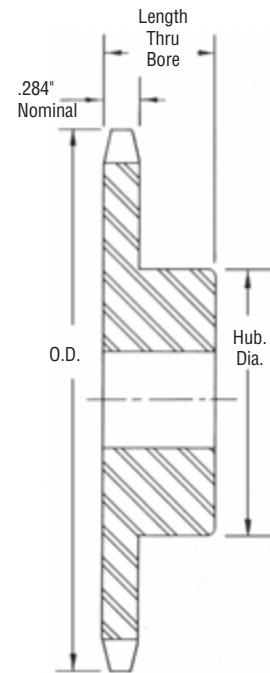
TYPE A

Conveyor Series — Carrier Roller Double Pitch — 2042/C2042

No. Teeth Actual	Outside Diameter	Pitch Diameter	Catalog Number	Type	Bore		Hub		Wt. Lbs. (Approx.)	Type	Catalog Number	Stock Bore	Wt. Lbs. (Approx.)
					Stock	Rec. Max.	Dia.	Length Thru Bore					
8	3.010	2.613	2042B8	B	5/8	1 1/2	1 1/8	7/8	0.72	-	-	-	-
9	3.350	2.924	2042B9	B	5/8	1 1/2	2 1/32	7/8	1.02	-	-	-	-
10	3.680	3.236	2042B10	B	5/8	1 1/2	2 3/64	1	1.50	-	-	-	-
11	4.000	3.549	2042B11	B	5/8	1 1/2	2 1/8	1	1.68	-	-	-	-
12	4.330	3.864	2042B12	B	5/8	2 1/4	3 1/16	1	2.22	-	-	-	-
13	4.660	4.179	2042B13	B	5/8	2 1/4	3 1/4	1	2.56	-	-	-	-
14	4.980	4.494	2042B14	B	5/8	2 1/4	3 1/4	1	2.72	-	-	-	-
15	5.300	4.810	2042B15	B	5/8	2 1/4	3 1/4	1	2.90	-	-	-	-
16	5.630	5.126	2042B16	B	5/8	2 1/4	3 1/4	1	3.10	A	2042A16	1 1/2	1.38
17	5.950	5.442	2042B17	B	5/8	2 1/4	3 1/4	1	3.40	A	2042A17	1 1/2	1.66
18	6.270	5.759	2042B18	B	5/8	2 1/4	3 1/4	1	3.56	A	2042A18	1 1/2	1.88
19	6.590	6.076	2042B19	B	5/8	2 1/4	3 1/4	1	3.72	A	2042A19	1 1/2	2.06
20	6.910	6.392	2042B20	B	5/8	2 3/4	3 1/2	1 1/8	4.72	A	2042A20	2 3/32	2.40
21	7.240	6.710	2042B21	B	5/8	2 3/4	3 1/2	1 1/8	4.84	A	2042A21	2 3/32	2.62
22	7.560	7.027	2042B22	B	5/8	2 3/4	3 1/2	1 1/8	5.18	A	2042A22	2 3/32	2.88
23	7.880	7.344	2042B23	B	5/8	2 3/4	3 1/2	1 1/8	5.04	A	2042A23	2 3/32	3.14
24	8.200	7.661	2042B24	B	5/8	2 3/4	3 1/2	1 1/8	5.58	A	2042A24	2 3/32	3.22
25	8.520	7.979	2042B25	B	5/8	2 3/4	3 1/2	1 1/8	5.96	A	2042A25	2 3/32	3.50
26	8.840	8.296	2042B26	B	5/8	2 3/4	3 1/2	1 1/8	6.22	A	2042A26	2 3/32	3.74
28	9.480	8.931	2042B28	B	5/8	2 3/4	3 1/2	1 1/8	6.78	A	2042A28	2 3/32	4.76
30	10.110	9.567	2042B30	B	5/8	2 3/4	3 1/2	1 1/8	7.56	A	2042A30	2 3/32	5.08

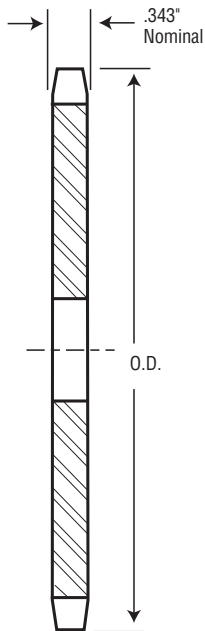
* Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

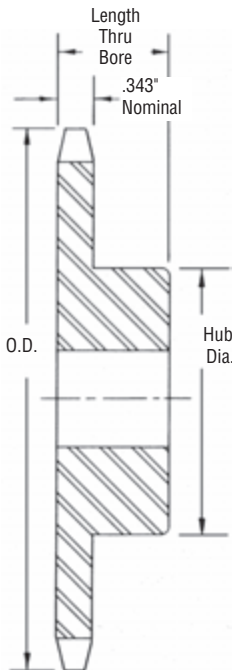


TYPE B

1¼-Inch Double-Pitch



TYPE A



TYPE B

Conveyor or Drive Series — Standard Roller Double Pitch — 2050/C2050

No. Teeth	Eff. No. Teeth	Outside Diameter	Pitch Diameter	Catalog Number	Type	Bore		Hub		Wt. Lbs. (Approx.)	Type	Catalog Number	Stock Bore	Wt. Lbs. (Approx.)
						Stock	Rec. Max.	Dia.	Length Thru Bore					
11	5.5	2.500	2.315	2050B11	B	¾	1/16	1¼★	1	0.62	—	—	—	
12	6.0	2.710	2.500	2050B12	B	¾	1	1¼/64	1	0.80	—	—	—	
13	6.5	2.910	2.690	2050B13	B	¾	1½/32	1½/32	1	0.82	—	—	—	
14	7.0	3.110	2.881	2050B14	B	¾	1½/16	1½/16	1	1.00	—	—	—	
15	7.5	3.320	3.073	2050B15	B	¾	1½/8	2¼/64	1	1.22	—	—	—	
16	8.0	3.520	3.266	2050B16	B	¾	1½/32	2¼/64	1	1.44	—	—	—	
17	8.5	3.720	3.460	2050B17	B	¾	1¼	2¼/16	1	1.68	—	—	—	
18	9.0	3.920	3.655	2050B18	B	¾	1½/16	2¼/32	1	1.94	—	—	—	
19	9.5	4.120	3.850	2050B19	B	¾	1½/32	2¼/64	1	2.24	—	—	—	
20	10.0	4.320	4.045	2050B20	B	¾	2	3	1	2.30	—	—	—	
21	10.5	4.520	4.241	2050B21	B	¾	2	3	1	2.40	—	—	—	
22	11.0	4.720	4.437	2050B22	B	¾	2	3	1	2.54	—	—	—	
23	11.5	4.920	4.633	2050B23	B	¾	2	3	1	2.66	—	—	—	
24	12.0	5.120	4.830	2050B24	B	¾	2	3	1¼	3.30	A	2050A24	¾/32	1.58
25	12.5	5.320	5.026	2050B25	B	¾	2	3	1¼	3.42	A	2050A25	¾/32	1.68
26	13.0	5.520	5.223	2050B26	B	¾	2	3	1¼	3.62	A	2050A26	¾/32	1.88
28	14.0	5.920	5.617	2050B28	B	¾	2	3	1¼	3.78	A	2050A28	¾/32	2.22
30	15.0	6.320	6.012	2050B30	B	¾	2¼	3¼	1¼	4.58	A	2050A30	¾/32	2.54

★ Has recessed groove in hub for chain clearance.

Conveyor Series — Carrier Roller Double Pitch — 2052/C2052

No. Teeth	Outside Diameter	Pitch Diameter	Catalog Number	Type	Bore		Hub		Wt. Lbs. (Approx.)	Type	Catalog Number	Stock Bore	Wt. Lbs. (Approx.)
					Stock	Rec. Max.	Dia.	Length Thru Bore					
8	3.770	3.266	2052B8	B	¾	1½/32	2¼/64	1	1.38	—	—	—	
9	4.190	3.655	2052B9	B	¾	1½/16	2¼/32	1	1.92	—	—	—	
10	4.600	4.045	2052B10	B	¾	2	3	1	2.30	—	—	—	
11	5.010	4.437	2052B11	B	¾	2	3	1	2.54	—	—	—	
12	5.420	4.830	2052B12	B	¾	2	3	1¼	3.20	A	2052A12	¾/32	1.58
13	5.820	5.223	2052B13	B	¾	2	3	1¼	3.48	A	2052A13	¾/32	1.82
14	6.230	5.617	2052B14	B	¾	2	3	1¼	3.88	A	2052A14	¾/32	2.28
15	6.630	6.012	2052B15	B	¾	2¼	3¼	1¼	4.46	A	2052A15	¾/32	2.46
16	7.030	6.407	2052B16	B	¾	2¼	3¼	1¼	4.80	A	2052A16	¾/32	2.88
17	7.440	6.803	2052B17	B	¾	2¼	3¼	1¼	5.34	A	2052A17	¾/32	3.28
18	7.840	7.198	2052B18	B	¾	2¼	3¼	1¼	5.64	A	2052A18	¾/32	3.64
19	8.240	7.595	2052B19	B	¾	2¼	3¼	1¼	6.04	A	2052A19	¾/32	4.12
20	8.640	7.991	2052B20	B	¾	2¼	3¼	1¼	6.48	A	2052A20	¾/32	4.72
21	9.040	8.387	2052B21	B	¾	2¼	3¼	1¼	7.00	A	2052A21	¾/32	5.08
22	9.440	8.783	2052B22	B	¾	2¼	3¼	1¼	7.30	A	2052A22	¾/32	5.20
23	9.850	9.180	2052B23	B	1	2¾	3¾	1¼	8.66	A	2052A23	¼/16	5.84
24	10.250	9.577	2052B24	B	½/16	2¾	3¾	1¼	9.32	A	2052A24	¼/16	6.70
25	10.650	9.973	2052B25	B	½/16	2¾	3¾	1¼	10.30	A	2052A25	¼/16	7.54
26	11.050	10.370	2052B26	B	½/16	2¾	3¾	1¼	11.00	A	2052A26	¼/16	8.24
28	11.840	11.164	2052B28	B	½/16	2¾	3¾	1¼	11.70	A	2052A28	¼/16	8.70
30	12.640	11.958	2052B30	B	½/16	2¾	3¾	1¼	12.90	A	2052A30	¼/16	9.92

★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

Double Pitch All Steel Stock Sprockets

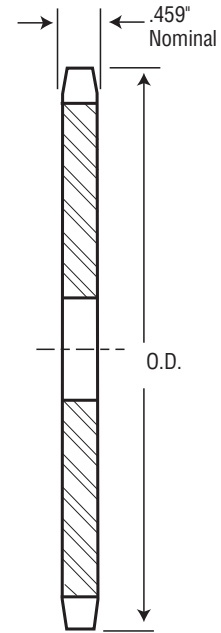


1½-Inch Double-Pitch

Conveyor Series — Standard Roller Double Pitch — 2060/C2060

No. Teeth	Actual	Eff. No. Teeth	Outside Diameter	Pitch Diameter	Catalog Number	Type	Bore		Hub		Wt. Lbs. (Approx.)	Type	Catalog Number	Stock Bore	Wt. Lbs. (Approx.)
							Stock	Rec. Max.	Dia.	Length Thru Bore					
11	5.5	3.000	2.773	2060B11	B	¾	1	2 1/16★	1 1/4	1.14	—	—	—	—	
12	6.0	3.250	3.000	2060B12	B	¾	1 1/4	2 1/8★	1 1/4	1.46	—	—	—	—	
13	6.5	3.490	3.228	2060B13	B	¾	1 1/8	2 3/4	1 1/4	1.52	—	—	—	—	
14	7.0	3.740	3.457	2060B14	B	¾	1 1/8	2 5/8	1 1/4	1.86	—	—	—	—	
15	7.5	3.980	3.688	2060B15	B	¾	1 1/8	2 7/8	1 1/4	2.24	—	—	—	—	
16	8.0	4.220	3.920	2060B16	B	¾	1 7/8	2 7/8	1 1/4	2.64	—	—	—	—	
17	8.5	4.460	4.152	2060B17	B	¾	2 1/8	3 1/8	1 1/4	3.08	—	—	—	—	
18	9.0	4.700	4.386	2060B18	B	¾	2 1/8	3 1/8	1 1/4	3.56	—	—	—	—	
19	9.5	4.940	4.620	2060B19	B	¾	2 1/8	3 1/8	1 1/4	3.94	—	—	—	—	
20	10.0	5.190	4.854	2060B20	B	¾	2 1/8	3 1/8	1 1/4	4.50	—	—	—	—	
21	10.5	5.430	5.089	2060B21	B	¾	2 1/8	4	1 1/4	5.02	—	—	—	—	
22	11.0	5.670	5.324	2060B22	B	¾	2 1/8	4	1 1/4	5.26	—	—	—	—	
23	11.5	5.910	5.560	2060B23	B	¾	2 1/8	4	1 1/4	5.54	—	—	—	—	
24	12.0	6.150	5.796	2060B24	B	¾	2 1/8	4	1 1/4	5.90	A	2060A24	2 3/8	3.02	
25	12.5	6.390	6.032	2060B25	B	¾	2 1/8	4	1 1/4	6.08	A	2060A25	2 3/8	3.36	
26	13.0	6.630	6.268	2060B26	B	¾	2 1/8	4	1 1/4	6.36	A	2060A26	2 3/8	3.58	
28	14.0	7.110	6.741	2060B28	B	¾	2 1/8	4	1 1/4	7.02	A	2060A28	2 3/8	4.12	
30	15.0	7.590	7.215	2060B30	B	¾	2 1/8	4	1 1/4	7.54	A	2060A30	2 3/8	4.88	

★ Has recessed groove in hub for chain clearance.



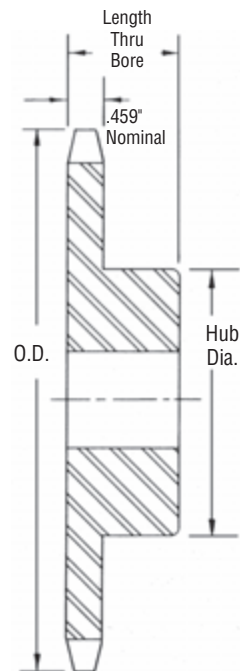
TYPE A

Conveyor Series — Carrier Roller Double Pitch — 2062/C2062

No. Teeth	Actual	Outside Diameter	Pitch Diameter	Catalog Number	Type	Bore		Hub		Wt. Lbs. (Approx.)	Type	Catalog Number	Stock Bore	Wt. Lbs. (Approx.)
						Stock	Rec. Max.	Dia.	Length Thru Bore					
8	4.520	3.920	2062B8	B	¾	1 1/8	2 1/8	1 1/4	2.60	—	—	—	—	
9	5.020	4.386	2062B9	B	¾	2 1/8	3 1/8	1 1/4	3.48	—	—	—	—	
10	5.520	4.854	2062B10	B	¾	2 1/8	3 5/8	1 1/4	4.54	—	—	—	—	
11	6.010	5.324	2062B11	B	¾	2 1/8	4	1 1/4	5.20	—	—	—	—	
12	6.500	5.796	2062B12	B	¾	2 1/8	4	1 1/4	5.70	A	2062A12	2 3/8	2.98	
13	6.990	6.268	2062B13	B	¾	2 1/8	4	1 1/4	6.28	A	2062A13	2 3/8	3.60	
14	7.470	6.741	2062B14	B	¾	2 1/8	4	1 1/4	6.82	A	2062A14	2 3/8	4.02	
15	7.960	7.215	2062B15	B	¾	2 1/8	4	1 1/4	7.48	A	2062A15	2 3/8	4.76	
16	8.440	7.689	2062B16	B	¾	2 1/8	4	1 1/4	8.18	A	2062A16	2 3/8	5.70	
17	8.920	8.163	2062B17	B	1	2 1/8	4	1 1/4	8.82	A	2062A17	1 5/8	6.16	
18	9.410	8.638	2062B18	B	1	2 1/8	4	1 1/4	9.36	A	2062A18	1 5/8	6.96	
19	9.890	9.113	2062B19	B	1	2 1/8	4 1/4	1 1/4	11.10	A	2062A19	1 5/8	8.00	
20	10.370	9.589	2062B20	B	1 1/8	2 1/8	4 1/4	1 1/4	11.66	A	2062A20	1 5/8	8.46	
21	10.850	10.064	2062B21	B	1 1/8	2 1/8	4 1/4	1 1/4	13.24	A	2062A21	1 5/8	8.93	
22	11.330	10.540	2062B22	B	1 1/8	2 1/8	4 1/4	1 1/4	13.78	A	2062A22	1 5/8	10.74	
23	11.810	11.016	2062B23	B	1 1/8	2 1/8	4 1/4	1 1/4	14.90	A	2062A23	1 5/8	11.64	
24	12.290	11.492	2062B24	B	1 1/8	2 1/8	4 1/4	1 1/4	15.66	A	2062A24	1 5/8	12.64	
25	12.770	11.968	2062B25	B	1 1/8	2 1/8	4 1/4	1 1/4	16.80	A	2062A25	1 5/8	13.78	
26	13.250	12.444	2062B26	B	1 1/8	2 1/8	4 1/4	1 1/4	20.20	A	2062A26	1 5/8	15.00	
28	14.210	13.397	2062B28	B	1 1/4	2 1/8	4 1/4	1 1/4	21.86	A	2062A28	1 1/4	17.32	
30	15.170	14.350	2062B30	B	1 1/4	2 1/8	4 1/4	1 1/4	26.00	A	2062A30	1 1/4	19.50	

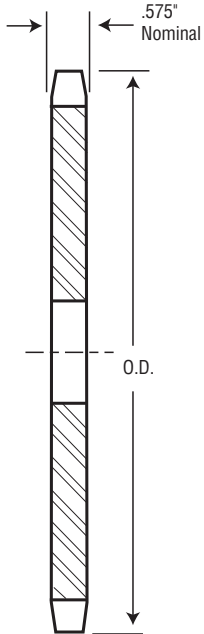
★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat.
Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

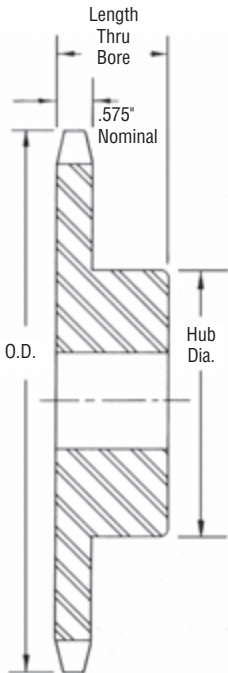


TYPE B

2-Inch Double-Pitch



TYPE A



TYPE B

Conveyor or Drive Series — Standard Roller Double Pitch — 2080/C2080

No. Teeth	Eff. No. Teeth	Outside Diameter	Pitch Diameter	Catalog Number	Type	Bore		Hub		Wt. Lbs. (Approx.)	Type	Catalog Number	Stock Bore	Wt. Lbs. (Approx.)
						Stock	Rec. Max.	Dia.	Length Thru Bore					
11	5.5	4.010	3.694	2080B11	B	1	1½	2¼★	1½	2.5	—	—	—	
12	6.0	4.330	4.000	2080B12	B	1	1½	3¼★	1½	3.2	—	—	—	
13	6.5	4.660	4.304	2080B13	B	1	1½	2½	1½	3.3	—	—	—	
14	7.0	4.980	4.610	2080B14	B	1	2½	3¼	1½	4.0	—	—	—	
15	7.5	5.300	4.917	2080B15	B	1	2½	3¾	1½	4.8	—	—	—	
16	8.0	5.630	5.226	2080B16	B	1	2½	3¾	1½	5.7	—	—	—	
17	8.5	5.950	5.536	2080B17	B	1	2¾	4	1½	6.4	A	2080A17	1½	3.4
18	9.0	6.270	5.848	2080B18	B	1	2¾	4¼	1½	7.4	A	2080A18	1½	3.8
19	9.5	6.590	6.160	2080B19	B	1	2¾	4¼	1½	7.7	A	2080A19	1½	4.3
20	10.0	6.910	6.472	2080B20	B	1	2¾	4¼	1½	8.3	A	2080A20	1½	4.8
21	10.5	7.230	6.785	2080B21	B	1	2¾	4¼	1¾	9.4	A	2080A21	1½	5.3
22	11.0	7.560	7.099	2080B22	B	1	2¾	4¼	1¾	10.0	A	2080A22	1½	5.8
23	11.5	7.880	7.413	2080B23	B	1	2¾	4¼	1¾	10.5	A	2080A23	1½	6.4
24	12.0	8.200	7.727	2080B24	B	1	2¾	4¼	1¾	11.1	A	2080A24	1½	7.1
25	12.5	8.520	8.042	2080B25	B	1	2¾	4¼	1¾	12.0	A	2080A25	1½	7.5
26	13.0	8.840	8.357	2080B26	B	1	3¼	4¼	2	14.8	A	2080A26	1¾	8.3
28	14.0	9.480	8.988	2080B28	B	1	3¼	4¼	2	16.6	A	2080A28	1¾	9.2
30	15.0	10.110	9.620	2080B30	B	1	3¼	4¼	2	17.8	A	2080A30	1¾	10.7

★ Has recessed groove in hub for chain clearance.

Conveyor Series — Carrier Roller Double Pitch — 2082/C2082

No. Teeth	Outside Diameter	Pitch Diameter	Catalog Number	Type	Bore		Hub		Wt. Lbs. (Approx.)	Type	Catalog Number	Stock Bore	Wt. Lbs. (Approx.)
					Stock	Rec. Max.	Dia.	Length Thru Bore					
8	6.030	5.226	2082B8	B	1	2¼	3¾	1¾	6.4	—	—	—	
9	6.700	5.848	2082B9	B	1	2¾	4¼	1¾	8.2	—	—	—	
10	7.360	6.472	2082B10	B	1	2¾	4¼	1¾	9.2	—	—	—	
11	8.010	7.099	2082B11	B	1	2¾	4¼	1¾	10.1	A	2082A11	1¾	5.7
12	8.660	7.727	2082B12	B	1	2¾	4¼	1¾	11.2	A	2082A12	1¾	6.8
13	9.310	8.357	2082B13	B	1	3¼	4¼	2	15.0	A	2082A13	1¾	7.7
14	9.960	8.988	2082B14	B	1	3¼	4¼	2	15.8	A	2082A14	1¾	9.1
15	10.610	9.620	2082B15	B	1	3¼	4¼	2	17.8	A	2082A15	1¾	10.7
16	11.250	10.252	2082B16	B	1	3¼	4¼	2	19.3	A	2082A16	1¾	12.4
17	11.900	10.885	2082B17	B	1	3¼	4¼	2	21.4	A	2082A17	1¾	14.1
18	12.540	11.518	2082B18	B	1	3¼	4¼	2	22.9	A	2082A18	1¾	15.4
19	13.190	12.151	2082B19	B	1	3¼	4¼	2	24.4	A	2082A19	1¾	18.0
20	13.830	12.785	2082B20	B	1	3¼	4¼	2	26.7	A	2082A20	1¾	19.2
21	14.470	13.419	2082B21	B	1	3¼	4¼	2	28.4	A	2082A21	1¾	20.8
22	15.110	14.053	2082B22	B	1	3¼	4¼	2	30.8	A	2082A22	1¾	23.7
23	15.750	14.688	2082B23	B	1	3¼	4¼	2	32.2	A	2082A23	1¾	24.9
24	16.390	15.323	2082B24	B	1	3¼	4¼	2	34.9	A	2082A24	1¾	27.6
25	17.030	15.958	2082B25	B	1	3¼	4¼	2	37.8	A	2082A25	1¾	30.2
26	17.670	16.593	2082B26	B	1	3½	5¼	2	41.5	A	2082A26	1¾	32.8
28	18.950	17.863	2082B28	B	1	3½	5¼	2	47.7	A	2082A28	1¾	38.6
30	20.230	19.134	2082B30	B	1	3½	5¼	2	54.5	A	2082A30	1¾	43.8

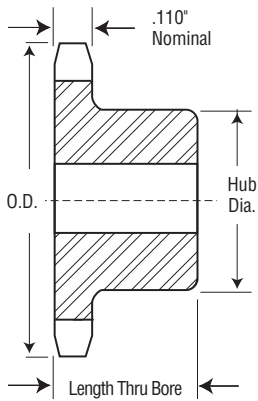
★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

No. 25

1/4" Pitch

All Steel Stock Sprockets



TYPE B

Alteration Charges

See current discount sheet for alteration charges.

Single - Type B

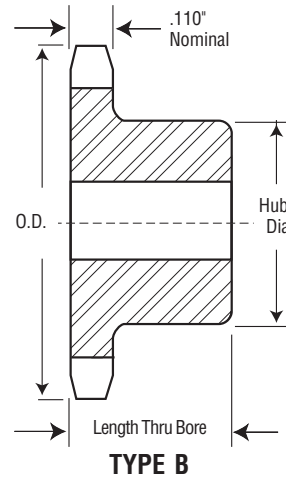
Single - Type A

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)	Type	Catalog Number	Stock Bore	Weight Lbs. (Approx.)
				Stock	Rec. Max.	Diameter	Length Thru Bore					
9	25B9	0.837	B	1/4	1/4	3/16	1/2	0.03	-	-	-	-
10	25B10	0.919	B	1/4	1/4	1/2	1/2	0.03	-	-	-	-
11	25B11	1.002	B	1/4	5/16	5/16	1/2	0.04	-	-	-	-
12	25B12	1.083	B	1/4	3/8	5/8	1/2	0.06	-	-	-	-
13	25B13	1.167	B	1/4	7/16	29/32	1/2	0.07	-	-	-	-
14	25B14	1.246	B	1/4	9/16	19/16	1/2	0.08	-	-	-	-
15	25B15	1.326	B	1/4	5/8	5/8	1/2	0.10	-	-	-	-
16	25B16	1.407	B	1/4	3/4	3/2	1/2	0.12	-	-	-	-
17	25B17	1.487	B	1/4	3/4	1 1/2	1/2	0.14	-	-	-	-
18	25B18	1.568	B	1/4	3/4	1 1/4	1/2	0.16	A	25A18	1/4	0.04
19	25B19	1.648	B	1/4	3/4	1 1/2	1/2	0.19	A	25A19	1/4	0.04
20	25B20	1.729	B	1/4	7/8	1 1/2	3/4	0.25	A	25A20	1/4	0.04
21	25B21	1.809	B	1/4	7/8	1 3/4	3/4	0.28	A	25A21	3/8	0.04
22	25B22	1.889	B	1/4	7/8	1 3/4	3/4	0.31	A	25A22	3/8	0.06
23	25B23	1.969	B	1/4	1	1 3/4	3/4	0.32	A	25A23	3/8	0.06
24	25B24	2.049	B	3/8	1	1 1/2	3/4	0.33	A	25A24	3/8	0.08
25	25B25	2.129	B	3/8	1	1 1/2	3/4	0.34	A	25A25	3/8	0.08
26	25B26	2.209	B	3/8	1	1 1/2	3/4	0.35	A	25A26	3/8	0.09
28	25B28	2.369	B	3/8	1	1 1/2	3/4	0.36	A	25A28	3/8	0.10
30	25B30	2.529	B	3/8	1	1 1/2	3/4	0.38	A	25A30	3/8	0.12
32	25B32	2.688	B	3/8	1	1 1/2	3/4	0.40	A	25A32	3/8	0.14
35	-	2.928	-	-	-	-	-	-	A	25A35	3/8	0.16
36	25B36	3.008	B	3/8	1	1 1/2	3/4	0.50	A	25A36	3/8	0.18
40	25B40	3.327	B	1/2	1 1/4	2	3/4	0.53	A	25A40	1/2	0.20
42	-	3.486	-	-	-	-	-	-	A	25A42	1/2	0.24
45	25B45	3.725	B	1/2	1 3/8	2	3/4	0.56	A	25A45	1/2	0.25
48	25B48	3.964	B	1/2	1 3/8	2	3/4	0.56	A	25A48	1/2	0.32
54	25B54	4.442	B	1/2	1 3/8	2	3/4	1.00	A	25A54	1/2	0.38
60	25B60	4.920	B	1/2	1 3/8	2	3/4	1.10	A	25A60	1/2	0.54
70	25B70	5.717	B	1/2	1 3/8	2	3/4	1.25	-	-	-	-
72	25B72	5.876	B	1/2	1 3/8	2	3/4	1.30	A	25A72	1/2	0.74

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

Alteration Charges

See current discount sheet for alteration charges.



STAINLESS STEEL

Single - Type B — Stainless

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)
				Stock	Rec. Max.	Diameter	Length Thru	
9	25B9SS	0.837	B	1/4	1/4	3/16	1/2	0.03
10	25B10SS	0.919	B	1/4	1/4	1/8	1/2	0.03
11	25B11SS	1.001	B	1/4	5/16	3/16	1/2	0.03
12	25B12SS	1.083	B	1/4	3/8	5/16	1/2	0.06
13	25B13SS	1.164	B	1/4	7/16	3/8	1/2	0.07
14	25B14SS	1.245	B	1/4	5/8	3/8	1/2	0.08
15	25B15SS	1.326	B	1/4	5/8	5/16	1/2	0.10
16	25B16SS	1.407	B	1/4	5/8	3/8	1/2	0.12
17	25B17SS	1.487	B	1/4	3/4	1 1/2	1/2	0.14
18	25B18SS	1.568	B	1/4	3/4	1 1/8	1/2	0.16
19	25B19SS	1.648	B	1/4	13/16	1 1/2	1/2	0.19
20	25B20SS	1.728	B	1/4	7/8	1 3/8	3/4	0.25
21	25B21SS	1.809	B	1/4	7/8	1 3/4	3/4	0.28
22	25B22SS	1.889	B	1/4	15/16	1 1/2	3/4	0.31
23	25B23SS	1.969	B	1/4	1	1 1/2	3/4	0.32
24	25B24SS	2.049	B	3/8	1	1 1/2	3/4	0.33
25	25B25SS	2.129	B	3/8	1	1 1/2	3/4	0.34
26	25B26SS	2.209	B	3/8	1	1 1/2	3/4	0.35
28	25B28SS	2.369	B	3/8	1	1 1/2	3/4	0.36
30	25B30SS	2.529	B	3/8	1	1 1/2	3/4	0.38
32	25B32SS	2.688	B	3/8	1	1 1/2	3/4	0.40
35	25B35SS	2.928	B	3/8	1	1 1/2	3/4	0.48
36	25B36SS	3.008	B	3/8	1	1 1/2	3/4	0.50
40	25B40SS	3.327	B	1/2	1 3/8	2	3/4	0.53
45	25B45SS	3.725	B	1/2	1 3/8	2	3/4	0.56
60	25B60SS	4.920	B	1/2	1 3/8	2	3/4	1.10

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

Sprockets altered at factory (rebored with key way and setscrew added) will be supplied with stainless setscrew.

No. 35

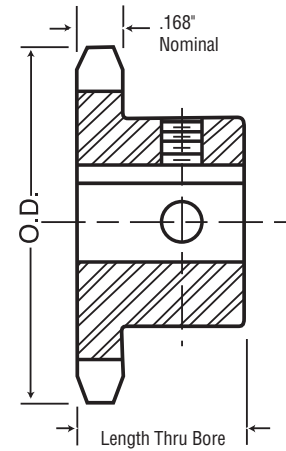
3/8" Pitch

All Steel Stock Sprockets



Single - Type BS — 2 Setscrews — Bored-To-Size

No. Teeth	Catalog Number	Outside Diameter	Length Thru Bore	Weight Lbs. (Approx.)	Stock Finished Bores Includes Keyway and 2 Setscrews
9	35BS9	1.260	3/4	0.10	*3/8
10	35BS10	1.380	3/4	0.11	*3/8 — *1/2 — † 3/8
11	35BS11	1.500	3/4	0.15	*3/8 — *1/2 — † 3/8 — † 3/4
12	35BS12	1.630	3/4	0.18	— *1/2 — 3/8 — † 3/4
13	35BS13	1.750	3/4	0.20	— *1/2 — 3/8 — 3/4
14	35BS14	1.870	3/4	0.22	— *1/2 — 3/8 — 3/4
15	35BS15	1.990	3/4	0.24	— *1/2 — 3/8 — 3/4 — 7/8 — 1
16	35BS16	2.110	3/4	0.29	— *1/2 — 3/8 — 3/4 — 7/8 — 1
17	35BS17	2.230	3/4	0.36	— *1/2 — 3/8 — 3/4 — 7/8 — 1
18	35BS18	2.350	3/4	0.39	— *1/2 — 3/8 — 3/4 — 7/8 — 1
19	35BS19	2.470	3/4	0.44	— *1/2 — 3/8 — 3/4 — 1
20	35BS20	2.590	3/4	0.51	— *1/2 — 3/8 — 3/4 — 1
21	35BS21	2.710	7/8	0.75	— *1/2 — 3/8 — 3/4 — 1
22	35BS22	2.830	7/8	0.78	— *1/2 — 3/8 — 3/4 — 1
23	35BS23	2.950	7/8	0.78	— *1/2 — 3/8 — 3/4 — 1
24	35BS24	3.070	7/8	0.79	— *1/2 — 3/8 — 3/4 — 1
25	35BS25	3.190	7/8	0.80	— *1/2 — 3/8 — 3/4 — 1
26	35BS26	3.310	7/8	0.84	— 3/8 — 3/4 — 7/8 — 1 — 1 1/8 — 1 3/8 — 1 1/2
27	35BS27	3.430	7/8	0.88	— 3/8 — 3/4 — 7/8 — 1 — 1 1/8 — 1 3/8 — 1 1/2
28	35BS28	3.550	7/8	0.86	— 3/8 — 3/4 — 7/8 — 1 — 1 1/8 — 1 3/8 — 1 1/2
30	35BS30	3.790	7/8	0.96	— 3/8 — 3/4 — 7/8 — 1 — 1 1/8 — 1 3/8 — 1 1/2
32	35BS32	4.030	7/8	1.14	— 3/8 — 3/4 — 7/8 — 1 — 1 1/8 — 1 3/8 — 1 1/2
35	35BS35	4.390	7/8	1.38	— 3/8 — 3/4 — 7/8 — 1 — 1 1/8 — 1 3/8 — 1 1/2
36	35BS36	4.510	7/8	1.41	— 3/8 — 3/4 — 7/8 — 1 — 1 1/8 — 1 3/8 — 1 1/2
40	35BS40	4.990	1	1.56	— 3/8 — 3/4 — 7/8 — 1 — 1 1/8 — 1 3/8 — 1 1/2
42	35BS42	5.230	1	1.64	— 3/8 — 3/4 — 7/8 — 1 — 1 1/8 — 1 3/8 — 1 1/2
45	35BS45	5.590	1	1.74	— 3/8 — 3/4 — 7/8 — 1 — 1 1/8 — 1 3/8 — 1 1/2
48	35BS48	5.950	1	1.86	— 3/8 — 3/4 — 7/8 — 1 — 1 1/8 — 1 3/8 — 1 1/2
54	35BS54	6.660	1	1.98	— 3/8 — 3/4 — 7/8 — 1 — 1 1/8 — 1 3/8 — 1 1/2
60	35BS60	7.380	1	2.34	— 3/8 — 7/8 — 1 — 1 1/8 — 1 3/8 — 1 1/2
70	35BS70	8.580	1	3.14	— 3/8 — 7/8 — 1 — 1 1/8 — 1 3/8 — 1 1/2
72	35BS72	8.810	1	3.30	— 3/8 — 7/8 — 1 — 1 1/8 — 1 3/8 — 1 1/2
80	35BS80	9.770	1	3.94	— 3/8 — 7/8 — 1 — 1 1/8 — 1 3/8 — 1 1/2
84	35BS84	10.250	1	4.26	— 3/8 — 7/8 — 1 — 1 1/8 — 1 3/8 — 1 1/2
96	35BS96	11.680	1	5.22	— 3/8 — 7/8 — 1 — 1 1/8 — 1 3/8 — 1 1/2
112	35BS112	13.590	1	6.50	— 3/8 — 7/8 — 1 — 1 1/8 — 1 3/8 — 1 1/2



TYPE BS



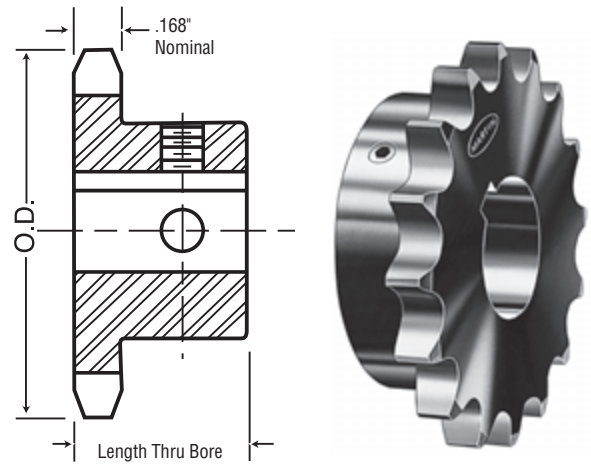
BORED-TO-SIZE

* Indicates no keyway. (2) 1/4" setscrews only in 1/2" & 3/8" bore.

† Keyway with Setscrew at 90°.

Hub diameters vary to suit different bore sizes.

NOTE: KEYWAY IS ON CENTER LINE OF TOOTH.



TYPE BS

BORED-TO-SIZE



No. 35-Hardened Teeth — 2 Setscrews — Bored-To-Size

No. Teeth	Catalog Number	Outside Diameter	Length Thru Bore	Weight Lbs. (Approx.)	Stock Finished Bores Includes Keyway and 2 Setscrews
9	35BS9HT	1.260	3/8"	0.10	*3/8"
10	35BS10HT	1.380	3/8"	0.11	*3/8" — *1/2" † 3/8"
11	35BS11HT	1.500	3/8"	0.15	*3/8" — *1/2" † 3/8" — † 3/8"
12	35BS12HT	1.630	3/8"	0.18	— *1/2" — 3/8" — † 3/8"
13	35BS13HT	1.750	3/8"	0.20	— *1/2" — 3/8" — 3/8"
14	35BS14HT	1.870	3/8"	0.22	— *1/2" — 3/8" — 3/8"
15	35BS15HT	1.990	3/8"	0.24	— *1/2" — 3/8" — 3/8" — 1/4" — 1
16	35BS16HT	2.110	3/8"	0.29	— *1/2" — 3/8" — 3/8" — 1/4" — 1
17	35BS17HT	2.230	3/8"	0.36	— *1/2" — 3/8" — 3/8" — 1/4" — 1
18	35BS18HT	2.350	3/8"	0.39	— *1/2" — 3/8" — 3/8" — 1/4" — 1
19	35BS19HT	2.470	3/8"	0.44	3/8" — 3/8" — 1/4" — 1
20	35BS20HT	2.590	3/8"	0.51	3/8" — 3/8" — 1/4" — 1
21	35BS21HT	2.710	3/8"	0.75	3/8" — 3/8" — 1/4" — 1
22	35BS22HT	2.830	3/8"	0.76	3/8" — 3/8" — 1/4" — 1
23	35BS23HT	2.950	3/8"	0.78	3/8" — 3/8" — 1/4" — 1
24	35BS24HT	3.070	3/8"	0.79	3/8" — 3/8" — 1/4" — 1
25	35BS25HT	3.190	3/8"	0.80	3/8" — 3/8" — 1/4" — 1
26	35BS26HT	3.310	3/8"	0.84	3/8" — 3/8" — 1/4" — 1
28	35BS28HT	3.550	3/8"	0.88	3/8" — 3/8" — 1/4" — 1
30	35BS30HT	3.790	3/8"	0.96	3/8" — 3/8" — 1/4" — 1

* Indicates no keyway. (2) 1/4" setscrews only in 1/2" & 3/8" bore at 90°.

† Keyway with Setscrew at 90° & 180°.

Hub diameters vary to suit different bore sizes.

NOTE: KEYWAY IS ON CENTER LINE OF TOOTH.

Martin stock hardened teeth sprockets afford longer chain and sprocket life. Hardened teeth on the smaller sprocket of a roller chain drive are recommended if the drive ratio is four to one or greater or if the smaller sprocket has 24 teeth or less and is running at a speed of over 600 R.P.M.

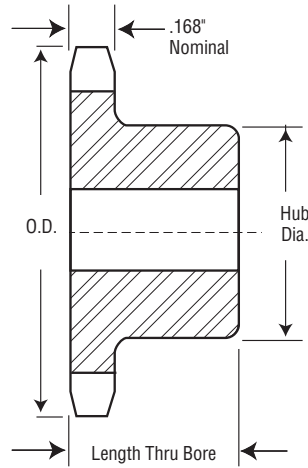
No. 35

3/8" Pitch

Stainless Steel Stock Sprockets



STAINLESS STEEL



TYPE B

Alteration Charges

See current discount sheet for alteration charges.

Single - Type B — Stainless

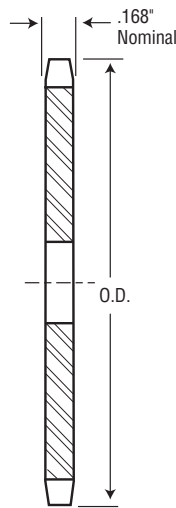
Single - Type A

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)	Type	Catalog Number	Stock Bore	Weight Lbs. (Approx.)
				Stock	Rec. Max.	Diameter	Length Thru					
9	35B9SS	1.260	B	3/8	3/8	27/64★	3/8	0.10				
10	35B10SS	1.380	B	3/8	3/8	31/64★	3/8	0.15				
11	35B11SS	1.500	B	3/8	3/8	11/16★	3/8	0.20				
12	35B12SS	1.630	B	1/2	3/8	17/32★	3/8	0.22				
13	35B13SS	1.750	B	1/2	3/8	19/32★	3/8	0.25				
14	35B14SS	1.870	B	1/2	7/8	1 1/4	3/8	0.26				
15	35B15SS	1.990	B	1/2	7/8	1 1/2	3/8	0.30				
16	35B16SS	2.110	B	1/2	7/8	1 3/4	3/8	0.40				
17	35B17SS	2.230	B	1/2	1 1/8	1 7/8	3/8	0.43				
18	35B18SS	2.350	B	1/2	1 1/8	1 7/8	3/8	0.50				
19	35B19SS	2.470	B	1/2	1 1/4	1 7/8	3/8	0.56				
20	35B20SS	2.590	B	1/2	1 1/4	1 7/8	3/8	0.68				
21	35B21SS	2.710	B	1/2	1 1/2	2	7/8	0.80				
22	35B22SS	2.830	B	1/2	1 1/2	2	7/8	0.82				
23	35B23SS	2.950	B	1/2	1 1/2	2	7/8	0.87				
24	35B24SS	3.070	B	1/2	1 1/2	2	7/8	0.89				
25	35B25SS	3.190	B	1/2	1 1/2	2	7/8	0.91				
26	35B26SS	3.310	B	1/2	1 1/2	2	7/8	0.93				
28	35B28SS	3.550	B	1/2	1 1/2	2	7/8	1.00				
30	35B30SS	3.790	B	1/2	1 1/2	2	7/8	1.06				
32	35B32SS	4.032	B	1/2	1 1/2	2	7/8	1.24				
35	35B35SS	4.390	B	3/4	1 1/2	2 1/4	7/8	1.56				
36	35B36SS	4.551	B	3/4	1 1/2	2 1/4	7/8	1.60				
40	35B40SS	4.990	B	3/4	1 1/2	2 1/4	1	1.70	A	35A40SS	19/32	1.04
45	35B45SS	5.590	B	3/4	1 1/2	2 1/4	1	2.18	A	35A45SS	19/32	1.26
60	35B60SS	7.380	B	3/4	1 1/2	2 1/4	1	3.00	A	35A60SS	27/32	2.10

★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

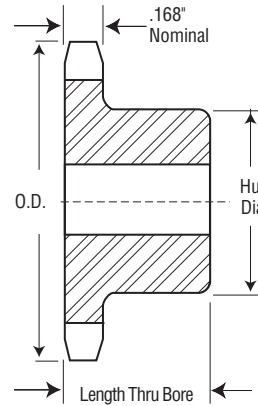
Sprockets altered at factory (rebored with keyway and setscrew added) will be supplied with stainless setscrew.



TYPE A



TYPE A



TYPE B



TYPE B

Alteration Charges

See current discount sheet for alteration charges.

Single - Type B — Steel

Single - Type A

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)	Type	Catalog Number	Stock Bore	Weight Lbs. (Approx.)
				Stock	Rec. Max.	Diameter	Length Thru					
8	35B8	1.130	B	3/8	3/8	3/4★	3/4	0.07				
9	35B9	1.260	B	3/8	3/8	7/8★	3/4	0.09				
10	35B10	1.380	B	3/8	3/8	3/2★	3/4	0.14				
11	35B11	1.500	B	3/8	3/8	1 1/16★	3/4	0.17				
12	35B12	1.630	B	1/2	3/8	1 1/32★	3/4	0.20				
13	35B13	1.750	B	1/2	1/16	1 1/4★	3/4	0.23				
14	35B14	1.870	B	1/2	7/16	1 1/2	3/4	0.25				
15	35B15	1.990	B	1/2	3/8	1 1/2	3/4	0.29	A	35A15	1/2	0.10
16	35B16	2.110	B	1/2	3/16	1 1/2	3/4	0.35	A	35A16	1/2	0.12
17	35B17	2.230	B	1/2	1/16	1 1/2	3/4	0.42	A	35A17	1/2	0.12
18	35B18	2.350	B	1/2	1/8	1 3/2	3/4	0.48	A	35A18	1/2	0.14
19	35B19	2.470	B	1/2	1/4	1 1/2	3/4	0.54	A	35A19	1/2	0.16
20	35B20	2.590	B	1/2	1/8	1 1/16	3/4	0.59	A	35A20	1/2	0.20
21	35B21	2.710	B	1/2	1/8	2	3/4	0.80	A	35A21	1/2	0.20
22	35B22	2.830	B	1/2	1/8	2	3/4	0.80	A	35A22	1/2	0.22
23	35B23	2.950	B	1/2	1/8	2	3/4	0.82	A	35A23	1/2	0.24
24	35B24	3.070	B	1/2	1/8	2	3/4	0.88	A	35A24	1/2	0.26
25	35B25	3.190	B	1/2	1/8	2	3/4	0.88	A	35A25	1/2	0.28
26	35B26	3.310	B	1/2	1/8	2	3/4	0.90	A	35A26	1/2	0.28
27	35B27	3.430	B	1/2	1/8	2	3/4	0.94	A	35A27	1/2	0.34
28	35B28	3.550	B	1/2	1/8	2	3/4	0.94	A	35A28	1/2	0.34
30	35B30	3.790	B	1/2	1/8	2	3/4	1.02	A	35A30	1/2	0.46
32	35B32	4.030	B	1/2	1/8	2	3/4	1.24	A	35A32	5/8	0.46
35	35B35	4.390	B	5/8	1 1/2	2 1/4	3/4	1.50	A	35A35	5/8	0.60
36	35B36	4.510	B	5/8	1 1/2	2 1/4	3/4	1.56	A	35A36	5/8	0.62
40	35B40	4.990	B	5/8	1 1/2	2 1/4	1	1.62	A	35A40	1 1/2	0.70
42	35B42	5.230	B	5/8	1 1/2	2 1/4	1	1.68	A	35A42	1 1/2	0.78
45	35B45	5.590	B	5/8	1 1/2	2 1/4	1	1.78	A	35A45	1 1/2	0.88
48	35B48	5.950	B	5/8	1 1/2	2 1/4	1	1.88	A	35A48	1 1/2	1.21
54	35B54	6.660	B	5/8	1 1/2	2 1/4	1	2.20	A	35A54	1 1/2	1.32
60	35B60	7.380	B	3/4	1 1/2	2 1/4	1	2.48	A	35A60	2 3/2	1.66
70	35B70	8.580	B	3/4	1 1/2	2 1/4	1	3.12	A	35A70	2 3/2	2.30
72	35B72	8.810	B	3/4	1 1/2	2 1/4	1	3.42	A	35A72	2 3/2	2.56
80	35B80	9.770	B	3/4	1 1/2	2 1/4	1	3.82	A	35A80	2 3/2	3.16
84	35B84	10.250	B	3/4	1 1/2	2 1/4	1	4.24	A	35A84	2 3/2	3.26
96	35B96	11.680	B	3/4	1 1/2	2 1/4	1	5.16	A	35A96	2 3/2	4.64
112	35B112	13.590	B	3/4	1 1/2	2 1/4	1	6.70	A	35A112	2 3/2	5.05

★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

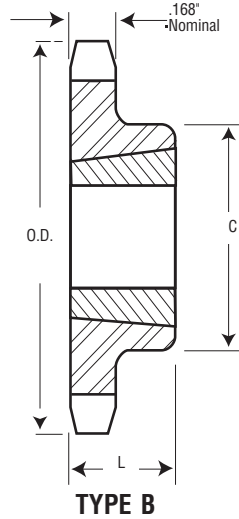
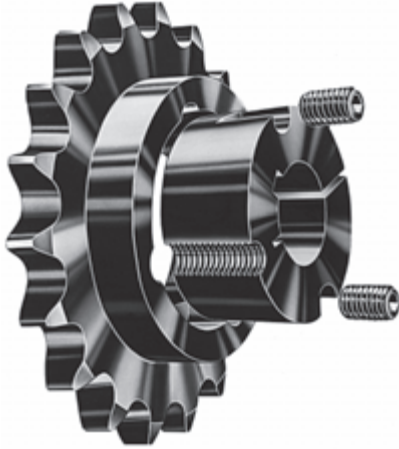
No. 35

3/8" Pitch

All Steel Stock Sprockets



Single - Taper Bushed



Single - Taper Bushed

No. Teeth	Catalog Number	Bushing	Diameter		Max. Bore	Dimensions		Type	Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter		L	C		Rim Only	Bushing Only
18	35BTB18	1008	2.352	2.159	1	7/8	1 1/8★	B	0.4	0.3
19	35BTB19	1008	2.472	2.278	1	7/8	1 1/16	B	0.5	0.3
20	35BTB20	1008	2.593	2.397	1	7/8	1 1/16	B	0.6	0.3
21	35BTB21	1008	2.713	2.516	1	7/8	2 1/16	B	0.7	0.3
22	35BTB22	1210	2.883	2.635	1 1/4	1	2 5/8★	B	0.8	0.6
23	35BTB23	1210	2.954	2.754	1 1/4	1	2 1/16	B	0.9	0.6
24	35BTB24	1210	3.074	2.873	1 1/4	1	2 1/16	B	0.9	0.6
25	35BTB25	1210	3.194	2.992	1 1/4	1	2 1/16	B	1.2	0.6
26	35BTB26	1610	3.314	3.111	1%	1	2 1/8★	B	1.1	0.9
28	35BTB28	1610	3.553	3.349	1%	1	2%	B	1.2	0.9
30	35BTB30	1610	3.793	3.588	1%	1	3%	B	1.2	0.9
32	35BTB32	1610	4.032	3.826	1%	1	3 1/4	B	1.3	0.9
35	35BTB35	1610	4.392	4.183	1%	1	3%	B	1.4	0.9
36	35BTB36	1610	4.511	4.303	1%	1	3%	B	1.4	0.9
40	35BTB40	1610	4.990	4.786	1%	1	3 1/4	B	1.9	0.9
42	35BTB42	1610	5.229	5.018	1%	1	3 1/4	B	2.0	0.9
45	35BTB45	1610	5.588	5.376	1%	1	3%	B	2.1	0.9
48	35BTB48	1610	5.946	5.734	1%	1	3%	B	2.3	0.9
54	35BTB54	1610	6.663	6.449	1%	1	3%	B	2.6	0.9
60	35BTB60	1610	7.380	7.165	1%	1	3%	B	3.0	0.9
70	35BTB70	1610	8.575	8.358	1%	1	3%	B	3.7	0.9
72	35BTB72	1610	8.814	8.597	1%	1	3%	B	3.9	0.9
80	35BTB80	1610	9.770	9.552	1%	1	3%	B	4.5	0.9
84	35BTB84	1610	10.247	10.029	1%	1	3%	B	4.9	0.9
96	35BTB96	1610	11.680	11.461	1%	1	3%	B	6.0	0.9
112	35BTB112	1610	13.590	13.371	1%	1	3%	B	7.8	0.9

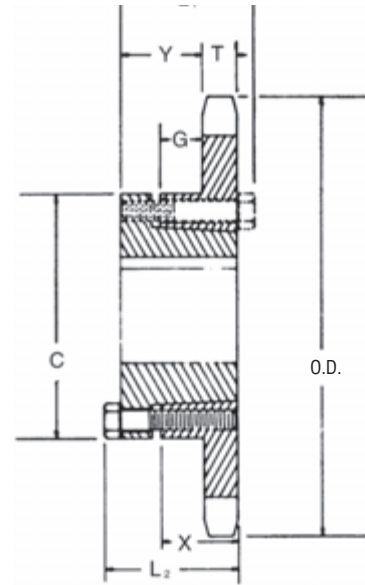
★ Has recessed groove in hub for chain clearance.

Martin

All Steel Stock Sprockets

No. 35

3/8" Pitch



QD — TYPE B

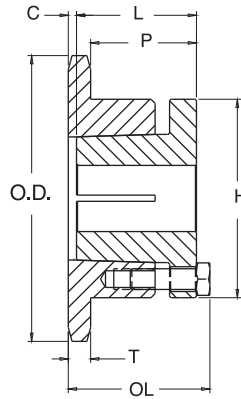
Single - Type QD

No. Teeth	Catalog Number	Bushing	Diameters		Type	Max. Bore	Dimensions							Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter			L ₁	L ₂	C	Y	G	X	T	With Hub	Rim Only
19	35JA19	JA	2.470	2.278	B	1 1/4	1 1/2	1 1/2	2 1/16	5/64	2/64	5/16	0.168	1.18	0.28
20	35JA20	JA	2.590	2.397	B	1 1/4	1 1/2	1 1/2	2 1/16	5/64	2/64	5/16	0.168	1.22	0.32
21	35JA21	JA	2.710	2.516	B	1 1/4	1 1/2	1 1/2	2 1/16	5/64	2/64	5/16	0.168	1.24	0.34
22	35JA22	JA	2.830	2.635	B	1 1/4	1 1/2	1 1/2	2 1/16	5/64	2/64	5/16	0.168	1.26	0.36
23	35JA23	JA	2.950	2.754	B	1 1/4	1 1/2	1 1/2	2 1/16	5/64	2/64	5/16	0.168	1.28	0.38
24	35JA24	JA	3.070	3.873	B	1 1/4	1 1/2	1 1/2	2 1/16	5/64	2/64	5/16	0.168	1.30	0.40
25	35JA25	JA	3.190	2.992	B	1 1/4	1 1/2	1 1/2	2 1/16	5/64	2/64	5/16	0.168	1.34	0.44
26	35JA26	JA	3.310	3.111	B	1 1/4	1 1/2	1 1/2	2 1/16	5/64	2/64	5/16	0.168	1.36	0.46
27	35JA27	JA	3.430	3.230	B	1 1/4	1 1/2	1 1/2	2 1/16	5/64	2/64	5/16	0.168	1.38	0.48
28	35JA28	JA	3.550	3.349	B	1 1/4	1 1/2	1 1/2	2 1/16	5/64	2/64	5/16	0.168	1.42	0.52
30	35JA30	JA	3.790	3.588	B	1 1/4	1 1/2	1 1/2	2 1/16	5/64	2/64	5/16	0.168	1.46	0.56
32	35JA32	JA	4.030	3.826	B	1 1/4	1 1/2	1 1/2	2 1/16	5/64	2/64	5/16	0.168	1.68	0.78
35	35JA35	JA	4.390	4.183	B	1 1/4	1 1/2	1 1/2	2 1/16	5/64	2/64	5/16	0.168	1.94	1.04
36	35SH36	SH	4.510	4.303	B	1 1/2	1 1/16	1 1/16	2 1/16	1 3/64	4/64	1 3/16	0.168	2.06	1.06
40	35SH40	SH	4.990	4.780	B	1 1/2	1 1/16	1 1/16	2 1/16	1 3/64	4/64	1 3/16	0.168	2.18	1.18
42	35SH42	SH	5.230	5.018	B	1 1/2	1 1/16	1 1/16	2 1/16	1 3/64	4/64	1 3/16	0.168	2.26	1.26
45	35SH45	SH	5.590	5.376	B	1 1/2	1 1/16	1 1/16	2 1/16	1 3/64	4/64	1 3/16	0.168	2.40	1.40
48	35SH48	SH	5.950	5.734	B	1 1/2	1 1/16	1 1/16	2 1/16	1 3/64	4/64	1 3/16	0.168	2.58	1.58
54	35SH54	SH	6.660	6.449	B	1 1/2	1 1/16	1 1/16	2 1/16	1 3/64	4/64	1 3/16	0.168	2.88	1.88
60	35SH60	SH	7.380	7.165	B	1 1/2	1 1/16	1 1/16	2 1/16	1 3/64	4/64	1 3/16	0.168	3.28	2.28
70	35SH70	SH	8.580	8.358	B	1 1/2	1 1/16	1 1/16	2 1/16	1 3/64	4/64	1 3/16	0.168	3.94	2.94
72	35SH72	SH	8.810	8.597	B	1 1/2	1 1/16	1 1/16	2 1/16	1 3/64	4/64	1 3/16	0.168	4.14	3.14
80	35SH80	SH	9.770	9.552	B	1 1/2	1 1/16	1 1/16	2 1/16	1 3/64	4/64	1 3/16	0.168	4.68	3.68
84	35SH84	SH	10.250	10.029	B	1 1/2	1 1/16	1 1/16	2 1/16	1 3/64	4/64	1 3/16	0.168	4.86	3.96
96	35SH96	SH	11.680	11.461	B	1 1/2	1 1/16	1 1/16	2 1/16	1 3/64	4/64	1 3/16	0.168	6.38	5.38
112	35SH112	SH	13.590	13.371	B	1 1/2	1 1/16	1 1/16	2 1/16	1 3/64	4/64	1 3/16	0.168	7.60	6.60

No. 35

3/8" Pitch

MST® Sprockets

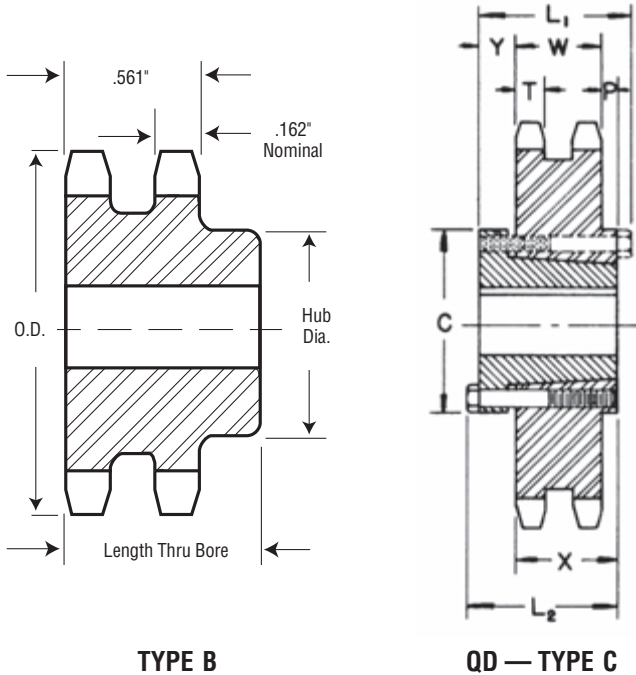


TYPE 3

Single - MST® Sprockets

No. Teeth	Catalog Number	Bush-ing	Diameters		Type	Max. Bore	Dimensions						Weight Lbs. (Approx.)	
			Outside Dia.	Pitch Dia.			OL	L	C	H	P	T(nom)	With Hub	Rim Only
19	35H19	H	2.470	2.278	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	1.3	0.5
20	35H20	H	2.590	2.397	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	1.3	0.5
21	35H21	H	2.710	2.516	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	1.4	0.6
22	35H22	H	2.830	2.635	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	1.5	0.7
23	35H23	H	2.950	2.754	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	1.5	0.7
24	35H24	H	3.070	2.873	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	1.6	0.8
25	35H25	H	3.190	2.992	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	1.6	0.8
26	35H26	H	3.310	3.111	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	1.6	0.8
28	35H28	H	3.550	3.349	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	1.7	0.9
30	35H30	H	3.790	3.588	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	1.7	0.9
32	35H32	H	4.030	3.826	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	1.7	0.9
35	35H35	H	4.390	4.183	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	1.8	1.0
36	35H36	H	4.510	4.303	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	1.8	1.0
40	35H40	H	4.990	4.780	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	2.0	1.2
42	35H42	H	5.230	5.018	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	2.0	1.2
45	35H45	H	5.590	5.376	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	2.2	1.4
48	35H48	H	5.950	5.734	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	2.3	1.5
54	35H54	H	6.660	6.449	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	2.6	1.8
60	35H60	H	7.380	7.165	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	3.1	2.3
70	35H70	H	8.580	8.358	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	3.6	2.8
72	35H72	H	8.810	8.597	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	3.8	3.0
80	35H80	H	9.770	9.552	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	4.6	3.8
84	35H84	H	10.250	10.029	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	4.8	4.0
96	35H96	H	11.680	11.461	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	6.1	5.3
112	35H112	H	13.590	13.371	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-5/32	0.168	7.6	6.8

Double - Type B



No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)
				Stock	Rec. Max.	Dia.	Length Thru	
12	D35B12H	1.630	B	1/2	3/16	3/4	1 1/4	0.32
13	D35B13H	1.750	B	1/2	1/8	1 1/4	1 1/4	0.36
14	D35B14H	1.870	B	1/2	3/16	1 1/4	1 1/4	0.44
15	D35B15H	1.990	B	1/2	1/8	1 1/2	1 1/4	0.56
16	D35B16H	2.110	B	1/2	3/16	1 1/2	1 1/4	0.64
17	D35B17H	2.230	B	1/2	1/8	1 1/2	1 1/4	0.74
18	D35B18H	2.350	B	1/2	1/8	1 1/2	1 1/4	0.84
19	D35B19H	2.470	B	1/2	1/8	1 1/2	1 1/4	0.96
20	D35B20H	2.590	B	3/4	1/8	1 1/2	1 1/4	1.08
21	D35B21H	2.710	B	3/4	1/8	2 1/8	1 1/4	1.24
22	D35B22H	2.830	B	3/4	1/8	2 1/8	1 1/4	1.42
23	D35B23H	2.950	B	3/4	1/8	2 1/4	1 1/4	1.54
24	D35B24H	3.070	B	3/4	1/2	2 1/4	1 1/4	1.62
25	D35B25H	3.190	B	3/4	1/8	2 1/4	1 1/4	1.66
26	D35B26	3.310	B	3/4	1/8	2 1/4	1 1/4	1.98
30	D35B30	3.790	B	3/4	1/8	2 1/2	1 1/4	2.34
36	D35B36	4.510	B	3/4	1/8	2 1/2	1 1/4	3.00
42	D35B42	5.230	B	3/4	1/8	2 1/2	1 1/4	3.80
48	D35B48	5.950	B	3/4	1/8	2 1/2	1 1/4	4.66
52	D35B52	6.430	B	3/4	1/8	2 1/2	1 1/4	5.40
60	D35B60	7.380	B	3/4	1/8	2 1/2	1 1/4	6.84
68	D35B68	8.340	B	3/4	2/8	3 1/2	1 1/4	10.01
72	D35B72	8.810	B	3/4	2/8	3 1/2	1 1/4	11.04
76	D35B76	9.290	B	3/4	2/8	3 1/2	1 1/4	11.94
84	D35B84	10.250	B	3/4	2/8	3 1/2	1 1/4	14.98
95	D35B95	11.560	B	1	2/8	3 1/2	1 1/4	17.42
96	D35B96	11.680	B	1	2/8	3 1/2	1 1/4	18.14
102	D35B102	12.400	B	1	2/8	3 1/2	1 1/4	19.92

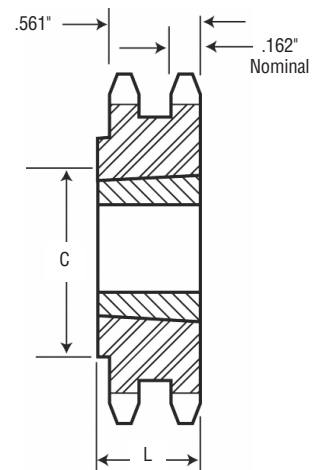
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

Sprockets with "H" suffix have hardened teeth.

Double - Taper Bushed

No. Teeth	Catalog Number	Bushing	Diameters		Max. Bore	Dimensions			Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter		L	C	Type	Rim Only	Bushing Only
19	D35BTB19H	1008	2.472	2.278	1	7/8	1 3/4	B	0.6	0.3
20	D35BTB20H	1008	2.593	2.397	1	7/8	1 1/4	B	0.8	0.3
21	D35BTB21H	1008	2.713	2.516	1	7/8	2 1/8	B	1.4	0.3
22	D35BTB22H	1008	2.833	2.635	1	7/8	2 1/8	B	1.7	0.3
24	D35BTB24H	1210	3.074	2.873	1 1/4	1	2 1/8	B	1.8	0.6
26	D35BTB26	1210	3.314	3.111	1 1/4	1	2 1/8	B	2.0	0.6
30	D35BTB30	1610	3.793	3.588	1 1/4	1	3 1/4	B	1.8	0.9
32	D35BTB32	1610	4.032	3.826	1 1/4	1	3 1/4	B	2.0	0.9
35	D35BTB35	1610	4.392	4.183	1 1/4	1	3 1/4	B	2.3	0.9
40	D35BTB40	1610	4.990	4.780	1 1/4	1	3 1/4	B	2.9	0.9
45	D35BTB45	1610	5.588	5.376	1 1/4	1	3 1/4	B	3.2	0.9
48	D35BTB48	1610	5.946	5.734	1 1/4	1	3 1/4	B	3.5	0.9
54	D35BTB54	1610	6.663	6.449	1 1/4	1	3 3/4	B	3.9	0.9
60	D35BTB60	1610	7.380	7.165	1 1/4	1	3 3/4	B	4.9	0.9
70	D35BTB70	1610	8.575	8.358	1 1/4	1	3 3/4	B	6.3	0.9
80	D35BTB80	1610	9.770	9.552	1 1/4	1	3 3/4	B	7.9	0.9
96	D35BTB96	1610	11.680	11.461	1 1/4	1	3 3/4	B	9.9	0.9
112	D35BTB112	1610	13.590	13.371	1 1/4	1	3 3/4	B	10.9	0.9

Sprockets with "H" suffix have hardened teeth.



TAPER BUSHED
TYPE B

Double - Type QD

No. Teeth	Catalog Number	Bush-ing	Diameters		Type	Max. Bore	Dimensions								Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter			L ₁	L ₂	C	Y	P	X	T	W	With Hub	Rim Onl
68	D35SDS68	SDS	8.340	8.120	C	2	1 1/2	1 1/2	3 1/8	3/8	3/8	3/4	0.162	0.561	8.40	7.40
72	D35SDS72	SDS	8.810	8.597	C	2	1 1/2	1 1/2	3 1/8	3/8	3/8	3/4	0.162	0.561	9.28	8.28
76	D35SDS76	SDS	9.290	9.074	C	2	1 1/2	1 1/2	3 1/8	3/8	3/8	3/4	0.162	0.561	10.32	9.32
84	D35SK84	SK	10.250	10.029	C	2 1/2	2 1/2	2 1/2	3 3/8	3/8	1/8	1 1/4	0.162	0.561	13.94	11.94
95	D35SK95	SK	11.560	11.342	C	2 1/2	2 1/2	2 1/2	3 3/8	3/8	1/8	1 1/4	0.162	0.561	17.22	15.22
96	D35SK96	SK	11.680	11.461	C	2 1/2	2 1/2	2 1/2	3 3/8	3/8	1/8	1 1/4	0.162	0.561	17.74	15.74
102	D35SK102	SK	12.400	12.177	C	2 1/2	2 1/2	2 1/2	3 3/8	3/8	1/8	1 1/4	0.162	0.561	19.76	17.76

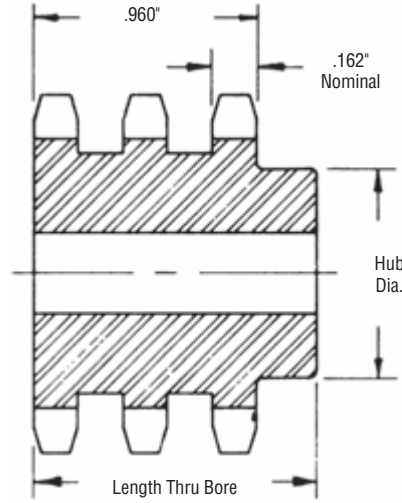
No. 35-3

3/8" Pitch

All Steel Stock Sprockets

Triple - Type B

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)
				Stock	Rec. Max.	Dia.	Length Thru	
13	E35B13H	1.750	B	1/2	1/16	1 1/4	1 1/4	0.50
14	E35B14H	1.870	B	1/2	3/16	1 1/4	1 1/4	0.62
15	E35B15H	1.990	B	1/2	1/8	1 1/2	1 1/4	0.78
16	E35B16H	2.110	B	1/2	1/8	1 1/2	1 1/4	0.82
17	E35B17H	2.230	B	1/2	1/8	1 3/4	1 1/4	1.04
18	E35B18H	2.350	B	1/2	1/8	1 3/4	1 1/4	1.22
19	E35B19H	2.470	B	1/2	1/8	1 3/4	1 1/4	1.40
20	E35B20H	2.590	B	1/2	1/8	1 3/4	1 1/4	1.50
21	E35B21H	2.710	B	3/4	1/8	2 1/4	1 1/4	1.72
22	E35B22H	2.830	B	3/4	1/8	2 3/4	1 1/4	1.96
23	E35B23H	2.950	B	3/4	1/8	2 3/4	1 1/4	2.12
24	E35B24H	3.070	B	3/4	1/8	2 3/4	1 1/4	2.26
25	E35B25H	3.190	B	3/4	1/8	2 3/4	1 1/4	2.42
26	E35B26	3.310	B	3/4	1/8	2 3/4	1 1/4	2.78
30	E35B30	3.790	B	3/4	1/4	2 3/4	1 1/4	3.42
36	E35B36	4.510	B	3/4	1/4	2 3/4	1 1/4	4.52
42	E35B42	5.230	B	3/4	1/4	2 3/4	1 1/4	5.88
48	E35B48	5.950	B	3/4	1/4	2 3/4	1 1/4	7.42
52	E35B52	6.430	B	3/4	1/4	2 3/4	1 1/4	8.52
60	E35B60	7.380	B	3/4	1/4	2 3/4	1 1/4	11.22
68	E35B68	8.340	B	3/4	2/8	3 1/2	1 1/4	15.38
72	E35B72	8.810	B	3/4	2/8	3 1/2	1 1/4	17.34
76	E35B76	9.290	B	3/4	2/8	3 1/2	1 1/4	18.90
84	E35B84	10.250	B	3/4	2/8	3 1/2	1 1/4	22.82
95	E35B95	11.560	B	1	2/8	3 3/4	2 1/4	29.32
96	E35B96	11.680	B	1	2/8	3 3/4	2 1/4	30.06
102	E35B102	12.400	B	1	2/8	3 3/4	2 1/4	33.36

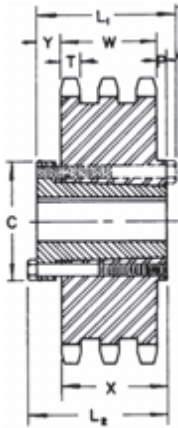


TYPE B

Alteration Charges
See current discount sheet for alteration charges.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

NOTE: Triple 35 stock sprockets with 25 teeth or less have hardened teeth. Sprockets with "H" suffix have hardened teeth.



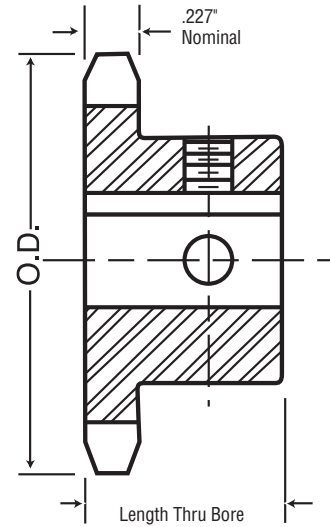
QD — TYPE C

Triple - Type QD

No. Teeth	Catalog Number	Bush-ing	Diameters		Type	Max. Bore	Dimensions							Weight (Approx.)		
			Outside Diameter	Pitch Diameter			L ₁	L ₂	C	Y	P	X	T	W	With Hub	Rim Only
68	E35SK68	SK	8.340	8.120	C	2%	2 1/2	2 1/2	3 3/4	3/8	1/4	1 1/4	0.162	0.960	13.90	11.90
72	E35SK72	SK	8.810	8.597	C	2%	2 1/2	2 1/2	3 3/4	3/8	1/4	1 1/4	0.162	0.960	15.56	13.56
76	E35SK76	SK	9.290	9.074	C	2%	2 1/2	2 1/2	3 3/4	3/8	1/4	1 1/4	0.162	0.960	17.42	15.42
84	E35SK84	SK	10.250	10.029	C	2%	2 1/2	2 1/2	3 3/4	3/8	1/4	1 1/4	0.162	0.960	20.92	18.92
95	E35SK95	SK	11.560	11.342	C	2%	2 1/2	2 1/2	3 3/4	3/8	1/4	1 1/4	0.162	0.960	26.76	24.76
96	E35SK96	SK	11.680	11.461	C	2%	2 1/2	2 1/2	3 3/4	3/8	1/4	1 1/4	0.162	0.960	27.58	25.58
102	E35SK102	SK	12.400	12.177	C	2%	2 1/2	2 1/2	3 3/4	3/8	1/4	1 1/4	0.162	0.960	31.18	29.18



BORED-TO-SIZE



TYPE BS

Single - Type BS — 2 Setscrews — Bored-To-Size

No. Teeth	Catalog Number	Outside Diameter	Length Thru Bore	Weight Lbs. (Approx.)	Stock Finished Bores Includes Keyway and 2 Setscrews
9	41BS9	1.670	3/8	0.20	— 1/2 — 3/8
10	41BS10	1.840	3/8	0.25	— 1/2 — 3/8
11	41BS11	2.000	3/8	0.32	— 1/2 — 3/8 — 3/4
12	41BS12	2.170	3/8	0.33	— 1/2 — 3/8 — 3/4 — 3/8
13	41BS13	2.330	3/8	0.43	— 1/2 — 3/8 — 3/4 — 3/8 — 1
14	41BS14	2.490	3/8	0.48	— 1/2 — 3/8 — 3/4 — 3/8 — 1
15	41BS15	2.650	3/8	0.59	— 1/2 — 3/8 — 3/4 — — 1
16	41BS16	2.810	3/8	0.72	— 3/8 — 3/4 — — 1
17	41BS17	2.970	1	1.00	— 3/8 — 3/4 — — 1
18	41BS18	3.140	1	1.10	— 3/8 — 3/4 — — 1
19	41BS19	3.300	1	1.21	— 3/8 — 3/4 — — 1
20	41BS20	3.460	1	1.39	— 3/8 — 3/4 — — 1
21	41BS21	3.620	1	1.77	— 3/8 — 3/4 — — 1
22	41BS22	3.780	1	1.92	— 3/8 — 3/4 — — 1
23	41BS23	3.940	1	2.18	— 3/8 — 3/4 — — 1
24	41BS24	4.100	1	2.24	— 3/8 — 3/4 — — 1
25	41BS25	4.260	1	2.42	— 3/8 — 3/4 — — 1
26	41BS26	4.420	1	2.46	— 3/8 — 3/4 — — 1
27	41BS27	4.580	1	2.52	— 3/8 — 3/4 — — 1
28	41BS28	4.740	1	2.60	— 3/8 — 3/4 — — 1
30	41BS30	5.060	1	2.76	— 3/8 — 3/4 — — 1
32	41BS32	5.380	1	2.92	— 3/8 — 3/4 — — 1
35	41BS35	5.860	1	3.08	— 3/8 — 3/4 — — 1
36	41BS36	6.020	1	3.28	— 3/8 — 3/4 — — 1
40	41BS40	6.650	1 1/8	3.82	— 3/8 — — 1 — 1 1/8 — 1 1/8 — 1 1/8 — 1 1/8 — 1 1/8 — 1 1/2
42	41BS42	6.970	1 1/8	3.68	— 3/8 — — 1 — 1 1/8 — 1 1/8 — 1 1/8 — 1 1/8 — 1 1/8 — 1 1/2
45	41BS45	7.450	1 1/8	3.94	— 3/8 — — 1 — 1 1/8 — 1 1/8 — 1 1/8 — 1 1/8 — 1 1/8 — 1 1/2
48	41BS48	7.930	1 1/8	4.68	— 3/8 — — 1 — 1 1/8 — 1 1/8 — 1 1/8 — 1 1/8 — 1 1/8 — 1 1/2
54	41BS54	8.880	1 1/8	5.44	— 3/8 — — 1 — 1 1/8 — 1 1/8 — 1 1/8 — 1 1/8 — 1 1/8 — 1 1/2
60	41BS60	9.840	1 1/8	6.54	— 3/8 — — 1 — 1 1/8 — 1 1/8 — 1 1/8 — 1 1/8 — 1 1/8 — 1 1/2
70	41BS70	11.430	1 3/8	9.28	— 3/8 — — 1 — 1 1/8 — 1 1/8 — 1 1/8 — 1 1/8 — 1 1/8 — 1 1/2
72	41BS72	11.750	1 3/8	9.38	— 3/8 — — 1 — 1 1/8 — 1 1/8 — 1 1/8 — 1 1/8 — 1 1/8 — 1 1/2
80	41BS80	13.030	1 3/8	11.28	— 3/8 — — 1 — 1 1/8 — 1 1/8 — 1 1/8 — 1 1/8 — 1 1/8 — 1 1/2
84	41BS84	13.660	1 3/8	11.94	— 3/8 — — 1 — 1 1/8 — 1 1/8 — 1 1/8 — 1 1/8 — 1 1/8 — 1 1/2
96	41BS96	15.570	1 3/8	14.51	1 — 1 1/8 — 1 1/8 — 1 1/8 — 1 1/8 — 1 1/8 — 1 1/2
112	41BS112	18.120	1 3/8	18.81	1 — 1 1/8 — 1 1/8 — 1 1/8 — 1 1/8 — 1 1/8 — 1 1/2

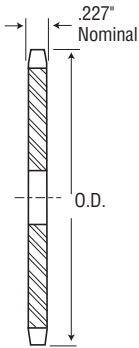
* Indicates no keyway. (2) 1/4" setscrews only in 1/2" bore.
Hub diameters vary to suit different bore sizes.

NOTE: KEYWAY IS ON CENTER LINE OF TOOTH.

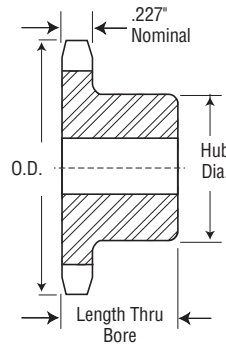
No. 41

1/2" Pitch

All Steel & Stainless Steel Stock Sprockets



TYPE A



TYPE B

Single - Type B

Single - Type A

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)	Type	Catalog Number	Stock Bore	Weight Lbs. (Approx.)
				Stock	Rec. Max.	Diameter	Length Thru Bore					
6	41B6	1.170	B	3/8	3/8	2/32★	7/8	0.07				
7	41B7	1.340	B	3/8	3/8	3/8★	7/8	0.10				
8	41B8	1.510	B	1/2	1/2	9/64★	7/8	0.19				
9	41B9	1.670	B	1/2	1/2	11/64★	7/8	0.20				
10	41B10	1.840	B	1/2	3/4	11/64★	7/8	0.27				
11	41B11	2.000	B	1/2	7/8	11/64★	7/8	0.35				
12	41B12	2.170	B	1/2	15/16	11/64★	7/8	0.44				
13	41B13	2.330	B	1/2	1	11/64	7/8	0.50				
14	41B14	2.490	B	1/2	1 1/4	1 1/8	7/8	0.57				
15	41B15	2.650	B	1/2	1 1/8	1 9/32	7/8	0.72	A	41A15	5/8	0.28
16	41B16	2.810	B	3/4	1 3/8	2 1/8	7/8	0.91	A	41A16	5/8	0.34
17	41B17	2.970	B	3/4	1 1/2	2 5/64	1	1.09	A	41A17	5/8	0.36
18	41B18	3.140	B	3/4	1 5/8	2 3/8	1	1.25	A	41A18	5/8	0.44
19	41B19	3.300	B	3/4	1 3/4	2 15/32	1	1.49	A	41A19	5/8	0.46
20	41B20	3.460	B	3/4	1 7/8	2 3/4	1	1.64	A	41A20	5/8	0.52
21	41B21	3.620	B	3/4	1 7/8	2 3/8	1	1.81	A	41A21	5/8	0.60
22	41B22	3.780	B	3/4	2	3	1	1.93	A	41A22	5/8	0.66
23	41B23	3.940	B	3/4	2 1/4	3 3/16	1	2.25	A	41A23	5/8	0.72
24	41B24	4.100	B	3/4	2 1/4	3 3/4	1	2.33	A	41A24	5/8	0.82
25	41B25	4.260	B	3/4	2 1/4	3 3/4	1	2.46	A	41A25	5/8	0.88
26	41B26	4.420	B	3/4	2 1/2	3 3/4	1	2.50	A	41A26	5/8	0.94
27	41B27	4.580	B	3/4	2 1/2	3 3/4	1	2.56	A	41A27	5/8	1.00
28	41B28	4.740	B	3/4	2 1/2	3 3/4	1	2.64	A	41A28	5/8	1.08
30	41B30	5.060	B	3/4	2 1/2	3 3/4	1	2.80	A	41A30	19/32	1.20
32	41B32	5.380	B	3/4	2 3/4	3 3/4	1	2.96	A	41A32	19/32	1.44
35	41B35	5.860	B	3/4	2 3/4	3 3/4	1	3.12	A	41A35	19/32	1.70
36	41B36	6.020	B	3/4	2 3/4	3 3/4	1	3.32	A	41A36	19/32	1.84
40	41B40	6.650	B	3/4	2 3/4	3 3/4	1 1/8	4.06	A	41A40	23/32	2.22
42	41B42	6.970	B	3/4	2 3/4	3 1/2	1 1/8	4.10	A	41A42	23/32	2.50
45	41B45	7.450	B	3/4	2 3/4	3 1/2	1 1/8	4.18	A	41A45	23/32	2.52
48	41B48	7.930	B	3/4	2 3/4	3 1/2	1 1/8	4.92	A	41A48	23/32	2.92
54	41B54	8.880	B	3/4	2 3/4	3 1/2	1 1/8	5.68	A	41A54	23/32	3.54
60	41B60	9.840	B	3/4	2 3/4	3 1/2	1 1/8	6.78	A	41A60	23/32	4.60
70	41B70	11.430	B	3/4	2 3/4	4	1 1/8	9.54	A	41A70	23/32	6.22
72	41B72	11.750	B	3/4	2 3/4	4	1 1/8	9.64	A	41A72	23/32	6.32
80	41B80	13.030	B	3/4	2 3/4	4	1 1/8	11.54	A	41A80	23/32	8.46
84	41B84	13.660	B	3/4	2 3/4	4	1 1/8	12.20	A	41A84	23/32	9.12
96	41B96	15.570	B	1	2 3/4	4	1 1/8	14.86	A	41A96	15/16	11.84
112	41B112	18.120	B	1	2 3/4	4	1 1/8	19.16	A	41A112	15/16	15.84

Single - Type B — Stainless

Single - Type A — Stainless

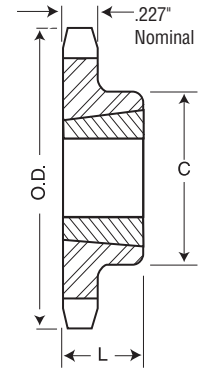
No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)	Type	Catalog Number	Stock Bore	Weight Lbs. (Approx.)
				Stock	Rec. Max.	Diameter	Length Thru Bore					
9	41B9SS	1.670	B	1/2	5/8	1 1/8★	7/8	0.20				
10	41B10SS	1.840	B	1/2	3/4	1 1/4★	7/8	0.27				
11	41B11SS	2.000	B	1/2	7/8	1 1/8★	7/8	0.35				
12	41B12SS	2.170	B	1/2	15/16	1 1/8★	7/8	0.44				
13	41B13SS	2.330	B	1/2	1	1 1/8	7/8	0.50				
14	41B14SS	2.490	B	1/2	1 1/4	1 1/8	7/8	0.57				
15	41B15SS	2.650	B	1/2	1 1/8	1 9/32	7/8	0.72				
16	41B16SS	2.810	B	3/4	1 3/8	2 1/8	7/8	0.91				
17	41B17SS	2.970	B	3/4	1 1/2	2 5/64	1	1.09				
18	41B18SS	3.140	B	3/4	1 5/8	2 3/8	1	1.25				
19	41B19SS	3.300	B	3/4	1 3/4	2 15/32	1	1.49				
20	41B20SS	3.460	B	3/4	1 7/8	2 3/4	1	1.64				

★ Has recessed groove in hub for chain clearance.

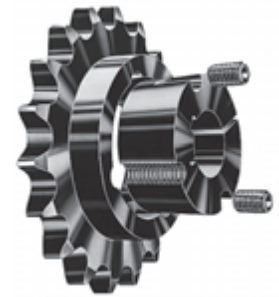
Single - Taper Bushed

No. Teeth	Catalog Number	Bushing	Diameters		Max. Bore	Dimensions			Type	Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter		L	C	Rim Only		Bushing Only	
14	41BTB14	1008	2.490	2.247	1	7/8	1 1/8*	B	0.4	0.3	
15	41BTB15	1008	2.650	2.405	1	7/8	1 1/8	B	0.5	0.3	
16	41BTB16	1008	2.810	2.503	1	7/8	2	B	0.6	0.3	
17	41BTB17	1210	2.970	2.721	1 1/4	1	2 3/8*	B	0.7	0.6	
18	41BTB18	1210	3.140	2.879	1 1/4	1	2 3/8	B	0.9	0.6	
19	41BTB19	1210	3.300	3.038	1 1/4	1	2 1/2	B	1.1	0.6	
20	41BTB20	1610	3.460	3.196	1 1/2	1	2 3/8*	B	1.1	0.9	
21	41BTB21	1610	3.620	3.355	1 1/2	1	3*	B	1.2	0.9	
22	41BTB22	1610	3.780	3.513	1 1/2	1	3	B	1.3	0.9	
23	41BTB23	1610	3.940	3.672	1 1/2	1	3	B	1.4	0.9	
24	41BTB24	1610	4.100	3.831	1 1/2	1	3	B	1.4	0.9	
25	41BTB25	1610	4.260	3.989	1 1/2	1	3	B	1.5	0.9	
26	41BTB26	1610	4.420	4.148	1 1/2	1	3	B	1.5	0.9	
28	41BTB28	1610	4.740	4.466	1 1/2	1	3	B	1.7	0.9	
30	41BTB30	1610	5.060	4.783	1 1/2	1	3	B	1.8	0.9	
32	41BTB32	1610	5.380	5.101	1 1/2	1	3	B	1.9	0.9	
35	41BTB35	1610	5.860	5.578	1 1/2	1	3	B	2.3	0.9	
36	41BTB36	1610	6.020	5.737	1 1/2	1	3	B	2.4	0.9	
40	41BTB40	1610	6.650	6.373	1 1/2	1	3	B	2.7	0.9	
45	41BTB45	1610	7.450	7.168	1 1/2	1	3	B	3.5	0.9	
48	41BTB48	1610	7.930	7.645	1 1/2	1	3	B	4.1	0.9	
54	41BTB54	1610	8.880	8.599	1 1/2	1	3	B	4.9	0.9	
60	41BTB60	1610	9.840	9.554	1 1/2	1	3	B	5.7	0.9	
70	41BTB70	1610	11.430	11.145	1 1/2	1	3	B	7.4	0.9	
72	41BTB72	1610	11.750	11.463	1 1/2	1	3	B	8.2	0.9	
80	41BTB80	1610	13.030	12.736	1 1/2	1	3	B	9.6	0.9	
96	41BTB96	1610	15.570	15.282	1 1/2	1	3	B	13.1	0.9	

* Has recessed groove in hub for chain clearance.

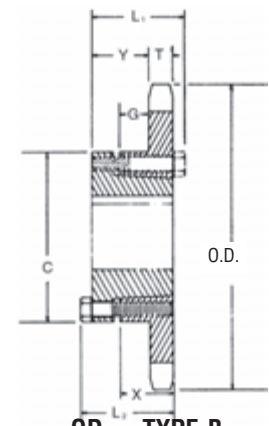


TAPER BUSHED
TYPE B



Single - Type QD

No. Teeth	Catalog Number	Bushing	Diameters		Type	Max. Bore	Dimensions								Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter			L ₁	L ₂	C	Y	G	X	T	With Hub	Rim Only	
15	41JA15	JA	2.650	2.405	B	1 1/4	1 1/8	1 1/8	2 1/16	9/64	3/64	3/8	.227	1.22	0.32	
16	41JA16	JA	2.810	2.563	B	1 1/4	1 1/8	1 1/8	2 1/16	9/64	3/64	3/8	.227	1.30	0.40	
17	41JA17	JA	2.980	2.721	B	1 1/4	1 1/8	1 1/8	2 1/16	9/64	3/64	3/8	.227	1.40	0.50	
18	41JA18	JA	3.140	2.879	B	1 1/4	1 1/8	1 1/8	2 1/16	9/64	3/64	3/8	.227	1.50	0.60	
19	41JA19	JA	3.300	3.038	B	1 1/4	1 1/8	1 1/8	2 1/16	9/64	3/64	3/8	.227	1.58	0.68	
20	41SH20	SH	3.460	3.196	B	1 1/2	1 1/16	1 1/16	2 1/16	1/32	3/64	3/16	.227	1.78	0.78	
21	41SH21	SH	3.620	3.355	B	1 1/2	1 1/16	1 1/16	2 1/16	1/32	3/64	3/16	.227	1.82	0.82	
22	41SH22	SH	3.780	3.513	B	1 1/2	1 1/16	1 1/16	2 1/16	1/32	3/64	3/16	.227	2.06	1.06	
23	41SH23	SH	3.940	3.672	B	1 1/2	1 1/16	1 1/16	2 1/16	1/32	3/64	3/16	.227	2.14	1.14	
24	41SH24	SH	4.100	3.831	B	1 1/2	1 1/16	1 1/16	2 1/16	1/32	3/64	3/16	.227	2.16	1.16	
25	41SH25	SH	4.260	3.989	B	1 1/2	1 1/16	1 1/16	2 1/16	1/32	3/64	3/16	.227	2.22	1.22	
26	41SH26	SH	4.420	4.148	B	1 1/2	1 1/16	1 1/16	2 1/16	1/32	3/64	3/16	.227	2.26	1.26	
27	41SH27	SH	4.580	4.307	B	1 1/2	1 1/16	1 1/16	2 1/16	1/32	3/64	3/16	.227	2.40	1.40	
28	41SH28	SH	4.740	4.466	B	1 1/2	1 1/16	1 1/16	2 1/16	1/32	3/64	3/16	.227	2.54	1.54	
30	41SH30	SH	5.060	4.783	B	1 1/2	1 1/16	1 1/16	2 1/16	1/32	3/64	3/16	.227	2.58	1.58	
32	41SH32	SH	5.380	5.101	B	1 1/2	1 1/16	1 1/16	2 1/16	1/32	3/64	3/16	.227	2.68	1.68	
35	41SH35	SH	5.860	5.578	B	1 1/2	1 1/16	1 1/16	2 1/16	1/32	3/64	3/16	.227	2.79	1.79	
36	41SDS36	SDS	6.020	5.737	B	2	1 1/2	1 1/2	3 1/16	1/32	1/32	3/8	.227	2.92	1.92	
40	41SDS40	SDS	6.650	6.373	B	2	1 1/2	1 1/2	3 1/16	1/32	1/32	3/8	.227	3.32	2.32	
42	41SDS42	SDS	6.970	6.691	B	2	1 1/2	1 1/2	3 1/16	1/32	1/32	3/8	.227	3.44	2.44	
45	41SDS45	SDS	7.450	7.168	B	2	1 1/2	1 1/2	3 1/16	1/32	1/32	3/8	.227	3.76	2.76	
48	41SDS48	SDS	7.930	7.645	B	2	1 1/2	1 1/2	3 1/16	1/32	1/32	3/8	.227	4.36	3.36	
54	41SDS54	SDS	8.890	8.599	B	2	1 1/2	1 1/2	3 1/16	1/32	1/32	3/8	.227	4.98	3.98	
60	41SDS60	SDS	9.840	9.554	B	2	1 1/2	1 1/2	3 1/16	1/32	1/32	3/8	.227	6.54	5.54	
70	41SK70	SK	11.430	11.145	B	2 1/2	2 1/2	2 1/2	3 3/8	1 1/4	1 1/2	1 1/4	.227	9.42	7.42	
72	41SK72	SK	11.750	11.463	B	2 1/2	2 1/2	2 1/2	3 3/8	1 1/4	1 1/2	1 1/4	.227	10.02	8.02	
80	41SK80	SK	13.030	12.736	B	2 1/2	2 1/2	2 1/2	3 3/8	1 1/4	1 1/2	1 1/4	.227	11.64	9.64	
84	41SK84	SK	13.660	13.372	B	2 1/2	2 1/2	2 1/2	3 3/8	1 1/4	1 1/2	1 1/4	.227	12.40	10.40	
96	41SK96	SK	15.570	15.281	B	2 1/2	2 1/2	2 1/2	3 3/8	1 1/4	1 1/2	1 1/4	.227	14.82	12.82	
112	41SK112	SK	18.120	17.828	B	2 1/2	2 1/2	2 1/2	3 3/8	1 1/4	1 1/2	1 1/4	.227	19.28	17.28	



QD — TYPE B



No. 40

1/2" Pitch

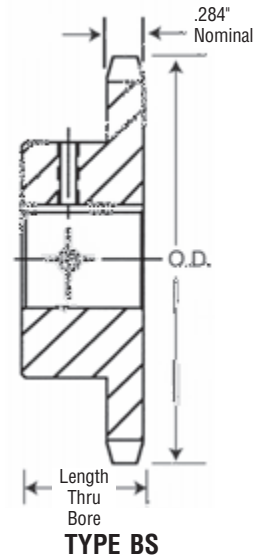
All Steel Stock Sprockets

Single - Type BS — 2 Setscrews — Bored-To-Size

No. Teeth	Catalog Number	Outside Diameter	Length Thru Bore	Weight Lbs. (Approx.)	Stock Finished Bores Includes Keyway and 2 Setscrews
9	40BS9	1.670	3/8	0.16	★1/2 — 3/8
10	40BS10	1.840	3/8	0.24	★1/2 — 3/8 — 3/8
11	40BS11	2.000	3/8	0.28	★1/2 — 3/8 — 3/8 — 7/8
12	40BS12	2.170	3/8	0.34	★1/2 — 3/8 — 3/8 — 1
13	40BS13	2.330	3/8	0.45	★1/2 — 3/8 — 3/8 — 1
14	40BS14	2.490	3/8	0.51	★1/2 — 3/8 — 3/8 — 7/8 — 1 — 1 1/8
15	40BS15	2.650	3/8	0.53	★1/2 — 3/8 — 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4
16	40BS16	2.810	3/8	0.66	3/8 — 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4
17	40BS17	2.970	1	0.88	3/8 — 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4
18	40BS18	3.140	1	1.03	3/8 — 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
19	40BS19	3.300	1	1.17	3/8 — 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
20	40BS20	3.460	1	1.33	3/8 — 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
21	40BS21	3.620	1	1.53	3/8 — 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
22	40BS22	3.780	1	1.66	3/8 — 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
23	40BS23	3.940	1	1.92	3/8 — 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
24	40BS24	4.100	1	2.10	3/8 — 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
25	40BS25	4.260	1	2.22	3/8 — 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
26	40BS26	4.420	1	2.34	3/8 — 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
27	40BS27	4.580	1	2.42	3/8 — 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
28	40BS28	4.740	1	2.50	3/8 — 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
29	40BS29	4.900	1	2.60	3/8 — 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
30	40BS30	5.060	1	2.70	3/8 — 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
31	40BS31	5.220	1	2.88	3/8 — 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
32	40BS32	5.380	1	3.00	3/8 — 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
33	40BS33	5.540	1	3.03	3/8 — 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
34	40BS34	5.700	1	3.11	3/8 — 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
35	40BS35	5.860	1	3.20	3/8 — 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
36	40BS36	6.020	1	3.39	3/8 — 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
37	40BS37	6.170	1	3.45	3/8 — 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
38	40BS38	6.330	1	3.50	3/8 — 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
39	40BS39	6.490	1	4.00	3/8 — 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
40	40BS40	6.650	1 1/8	4.28	— 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
41	40BS41	6.810	1 1/8	4.58	— 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
42	40BS42	6.970	1 1/8	4.64	— 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
43	40BS43	7.130	1 1/8	4.80	— 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
44	40BS44	7.290	1 1/8	4.96	— 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
45	40BS45	7.450	1 1/8	5.06	— 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
46	40BS46	7.610	1 1/8	5.19	— 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
47	40BS47	7.770	1 1/8	5.26	— 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
48	40BS48	7.930	1 1/8	5.66	— 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
49	40BS49	8.090	1 1/8	5.72	— 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
50	40BS50	8.250	1 1/8	5.78	— 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
51	40BS51	8.410	1 1/8	5.90	— 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
52	40BS52	8.570	1 1/8	5.94	— 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
53	40BS53	8.730	1 1/8	6.12	— 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
54	40BS54	8.880	1 1/8	6.24	— 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
55	40BS55	9.040	1 1/8	6.66	— 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
56	40BS56	9.200	1 1/8	6.71	— 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
57	40BS57	9.360	1 1/8	6.94	— 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
58	40BS58	9.520	1 1/8	7.17	— 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
59	40BS59	9.680	1 1/8	7.38	— 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
60	40BS60	9.840	1 1/8	7.68	— 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
70	40BS70	11.430	1 1/4	10.80	— 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
72	40BS72	11.750	1 1/4	11.30	— 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
80	40BS80	13.030	1 1/4	13.20	— 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
84	40BS84	13.660	1 1/4	13.84	— 3/8 — 7/8 — 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
96	40BS96	15.570	1 1/4	17.44	— 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2
112	40BS112	18.120	1 1/4	22.45	— 1 — 1 1/8 — 1 1/8 — 1 1/4 — 1 1/2 — 1 1/2 — 1 1/2



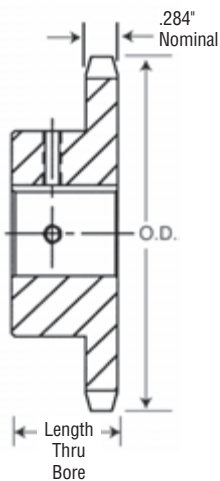
BORED-TO-SIZE



★ Indicates no keyway. (2) 3/4" setscrews only.
Hub diameters vary to suit different bore sizes.
NOTE: KEYWAY IS ON CENTER LINE OF TOOTH.



No. 40-Hardened Teeth — 2 Setscrews — Bored-To-Size

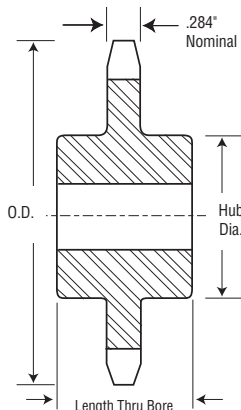


TYPE BS

No. Teeth	Catalog Number	Outside Diameter	Length Thru Bore	Weight Lbs. (Approx.)	Stock Finished Bores Includes Keyway and 2 Setscrews
9	40BS9HT	1.670	3/8	0.16	★1/2 — 3/8
10	40BS10HT	1.840	3/8	0.24	★1/2 — 3/8 — 3/4
11	40BS11HT	2.000	3/8	0.28	★1/2 — 3/8 — 3/4 — 7/8
12	40BS12HT	2.170	3/8	0.34	★1/2 — 3/8 — 3/4 — 7/8 — 1
13	40BS13HT	2.330	3/8	0.45	★1/2 — 3/8 — 3/4 — 7/8 — 1
14	40BS14HT	2.490	3/8	0.51	★1/2 — 3/8 — 3/4 — 7/8 — 1 — 1 1/8
15	40BS15HT	2.650	3/8	0.53	★1/2 — 3/8 — 3/4 — 7/8 — 1 — 1 1/8 — 1 3/16 — 1 1/4
16	40BS16HT	2.810	3/8	0.66	3/8 — 3/4 — 7/8 — 1 — 1 1/8 — 1 3/16 — 1 1/4
17	40BS17HT	2.970	1	0.88	3/8 — 3/4 — 7/8 — 1 — 1 1/8 — 1 3/16 — 1 1/4
18	40BS18HT	3.140	1	1.03	3/8 — 3/4 — 7/8 — 1 — 1 1/8 — 1 3/16 — 1 1/4 — 1 3/8 — 1 1/2
19	40BS19HT	3.292	1	1.17	3/8 — 3/4 — 7/8 — 1 — 1 1/8 — 1 3/16 — 1 1/4 — 1 3/8 — 1 1/2
20	40BS20HT	3.460	1	1.33	3/8 — 3/4 — 7/8 — 1 — 1 1/8 — 1 3/16 — 1 1/4 — 1 3/8 — 1 1/2
21	40BS21HT	3.620	1	1.53	3/8 — 3/4 — 7/8 — 1 — 1 1/8 — 1 3/16 — 1 1/4 — 1 3/8 — 1 1/2
22	40BS22HT	3.780	1	1.66	3/8 — 3/4 — 7/8 — 1 — 1 1/8 — 1 3/16 — 1 1/4 — 1 3/8 — 1 1/2
23	40BS23HT	3.940	1	1.92	3/8 — 3/4 — 7/8 — 1 — 1 1/8 — 1 3/16 — 1 1/4 — 1 3/8 — 1 1/2
24	40BS24HT	4.100	1	2.10	3/8 — 3/4 — 7/8 — 1 — 1 1/8 — 1 3/16 — 1 1/4 — 1 3/8 — 1 1/2
25	40BS25HT	4.260	1	2.22	3/4 — 7/8 — 1 — 1 1/8 — 1 3/16 — 1 1/4 — 1 3/8 — 1 1/2
26	40BS26HT	4.420	1	2.34	3/4 — 7/8 — 1 — 1 1/8 — 1 3/16 — 1 1/4 — 1 3/8 — 1 1/2
28	40BS28HT	4.740	1	2.50	3/4 — 7/8 — 1 — 1 1/8 — 1 3/16 — 1 1/4 — 1 3/8 — 1 1/2
30	40BS30HT	5.060	1	2.70	3/4 — 7/8 — 1 — 1 1/8 — 1 3/16 — 1 1/4 — 1 3/8 — 1 1/2

★Indicates no keyway. (2) 1/4" setscrews only in 1/2" & 3/8" bore at 90°.
NOTE: KEYWAY IS ON CENTER LINE OF TOOTH.

Martin stock hardened teeth sprockets afford longer chain and sprocket life. Hardened teeth on the smaller sprocket of a roller chain drive are recommended if the drive ratio is four to one or greater or if the smaller sprocket has 24 teeth or less and is running at a speed of over 600 R.P.M.



TYPE C

Single - Type C — Steel

No. Teeth	Catalog Number	Outside Diameter	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)
			Stock	Rec. Max.	Diameter	Length	
12	40C12	2.170	1/2	1	1 3/8★	1 1/2	0.75
13	40C13	2.330	1/2	1 1/8	1 1/4	1 1/2	0.94
14	40C14	2.490	1/2	1 1/8	1 1/4	1 1/2	0.91
15	40C15	2.650	1/2	1 1/4	1 1/2	1 1/2	1.19
16	40C16	2.810	1/2	1 3/8	2	1 1/2	1.34
17	40C17	2.970	3/8	1 7/8	2 1/2	1 1/2	1.50
18	40C18	3.140	3/8	1 1/2	2 3/8	1 1/2	1.80

★ Has recessed groove in hub for chain clearance.

No. 40

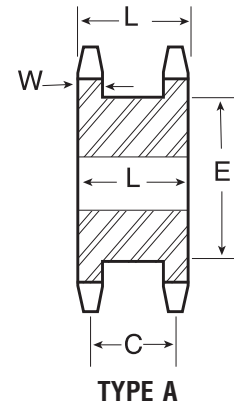
1/2" Pitch

All Steel Stock Sprockets



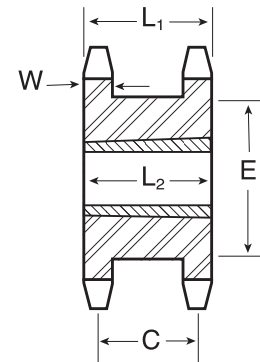
Double Single - Type A — Steel

No. Teeth	Catalog Number	Diameters		Type	Min. Bore	Max. Bore	Dimensions					Wt. Lbs. (Approx.)
		Outside Diameter	Pitch Diameter				L	C	E	w Nom.		
15	DS40A15	2.650	2.405	A	1/2	1 1/4	1 1/2	1 1/2	1 13/16	.284	1.2	
16	DS40A16	2.810	2.563	A	1/2	1 1/4	1 1/2	1 1/2	2	.284	1.4	
17	DS40A17	2.980	2.721	A	1/2	1 1/8	1 1/2	1 1/2	2 1/8	.284	1.6	
18	DS40A18	3.140	2.879	A	1/2	1 1/2	1 1/2	1 1/2	2 3/8	.284	1.8	
19	DS40A19	3.300	3.038	A	5/8	1 1/2	1 1/2	1 1/2	2 1/2	.284	2.2	
20	DS40A20	3.460	3.196	A	3/4	1 1/4	1 1/2	1 1/2	2 3/8	.284	2.6	
21	DS40A21	3.620	3.355	A	3/4	1 3/4	1 1/2	1 1/2	2 5/8	.284	2.9	
22	DS40A22	3.780	3.513	A	3/4	1 7/8	1 1/2	1 1/2	2 7/8	.284	3.0	
23	DS40A23	3.940	3.672	A	3/4	2 1/8	1 1/2	1 1/2	3 1/8	.284	3.5	
24	DS40A24	4.100	3.831	A	3/4	2 1/4	1 1/2	1 1/2	3 1/4	.284	4.0	
25	DS40A25	4.260	3.989	A	3/4	2 1/2	1 1/2	1 1/2	3 3/8	.284	4.5	



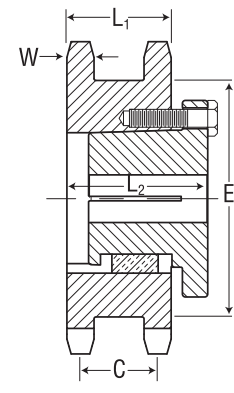
Double Single - Taper Bushed — Steel

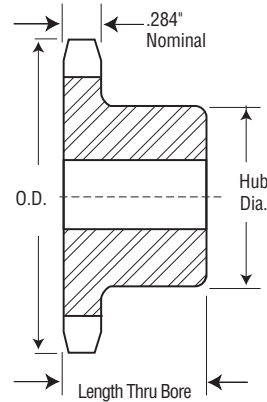
No. Teeth	Catalog Number	Bushing Size	Diameters		Min. Bore	Max. Bore	Type	Dimensions					Wt. Rim Only
			Outside Diameter	Pitch Diameter				L ₁	C	E	L ₂	w Nom.	
18	DS40ATB18H	1215	3.140	2.879	1/2	1 1/4	A	1 1/2	1 1/2	2 3/8	1 1/2	.284	1.0
19	DS40ATB19H	1215	3.300	3.038	1/2	1 1/4	A	1 1/2	1 1/2	2 1/2	1 1/2	.284	1.1
20	DS40ATB20H	1215	3.460	3.196	1/2	1 1/4	A	1 1/2	1 1/2	2 3/8	1 1/2	.284	1.3
21	DS40ATB21H	1615	3.620	3.355	1/2	1 1/2	A	1 1/2	1 1/2	2 5/8	1 1/2	.284	1.3
23	DS40ATB23H	1615	3.940	3.672	1/2	1 1/2	A	1 1/2	1 1/2	3 1/8	1 1/2	.284	1.5
24	DS40ATB24H	1615	4.100	3.831	1/2	1 1/2	A	1 1/2	1 1/2	3 3/8	1 1/2	.284	1.7



Double Single - MST® — Steel

No. Teeth	Catalog Number	Bushing Size	Diameters		Min. Bore	Max. Bore	Type	Dimensions					Wt. Rim Only
			Outside Diameter	Pitch Diameter				L ₁	C	E	L ₂	w Nom.	
19	DS40H19H	H	3.300	3.038	3/4	1 1/2	BH	1 1/2	1 1/2	2 1/2	2 1/2	.284	1.5
21	DS40H21H	H	3.620	3.355	3/4	1 1/2	BH	1 1/2	1 1/2	2 5/8	2 1/2	.284	2.0
23	DS40P23H	P1	3.940	3.672	1/2	1 1/4	B	1 1/2	1 1/2	3 1/8	2 1/2	.284	2.3
24	DS40P24H	P1	4.100	3.831	1/2	1 1/4	B	1 1/2	1 1/2	3 3/8	2 1/2	.284	2.5





Alteration Charges

See current discount sheet for alteration charges.

STAINLESS STEEL

TYPE B

Single - Type B — Stainless

Single - Type A

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)	Type	Catalog Number	Stock Bore	Weight Lbs. (Approx.)
				Stock	Rec. Max.	Diameter	Length Thru Bore					
8	40B8SS	1.507	B	1/2	1/2	3/2	3/8	0.18				
9	40B9SS	1.840	B	1/2	5/16	1 1/8	3/8	0.20				
10	40B10SS	1.840	B	1/2	3/4	1 1/4★	3/8	0.28				
11	40B11SS	2.000	B	1/2	13/16	1 3/8★	3/8	0.36				
12	40B12SS	2.170	B	1/2	15/16	1 5/8★	3/8	0.44				
13	40B13SS	2.330	B	1/2	1 1/16	1 7/8	3/8	0.50	A	40A13SS	1/2	0.22
14	40B14SS	2.490	B	1/2	1 1/8	1 7/8	3/8	0.60	A	40A14SS	1/2	0.26
15	40B15SS	2.650	B	1/2	1 1/4	1 7/8	3/8	0.68	A	40A15SS	3/8	0.30
16	40B16SS	2.810	B	1/2	1 1/2	2	3/8	0.82	A	40A16SS	3/8	0.34
17	40B17SS	2.980	B	3/4	1 5/8	2 1/8	1	1.06	A	40A17SS	3/8	0.36
18	40B18SS	3.140	B	3/4	1 7/8	2 3/8	1	1.24	A	40A18SS	3/8	0.44
19	40B19SS	3.300	B	3/4	1 3/4	2 1/2	1	1.42	A	40A19SS	3/8	0.46
20	40B20SS	3.460	B	3/4	1 7/8	2 5/8	1	1.60	A	40A20SS	3/8	0.56
21	40B21SS	3.620	B	3/4	1 7/8	2 3/4	1	1.68	A	40A21SS	3/8	0.58
22	40B22SS	3.780	B	3/4	1 7/8	2 7/8	1	1.81	A	40A22SS	3/8	0.66
23	40B23SS	3.940	B	3/4	2	3	1	2.14	A	40A23SS	3/8	0.72
24	40B24SS	4.100	B	3/4	2 1/4	3 1/4	1	2.46	A	40A24SS	3/8	0.82
25	40B25SS	4.260	B	3/4	2 1/4	3 1/4	1	2.55	A	40A25SS	3/8	0.88
26	40B26SS	4.420	B	3/4	2 1/4	3 1/4	1	2.62	A	40A26SS	19/32	1.31
28	40B28SS	4.740	B	3/4	2 1/4	3 1/4	1	2.75	A	40A28SS	19/32	1.35
30	40B30SS	5.060	B	3/4	2 1/4	3 1/4	1	2.88	A	40A30SS	19/32	1.39
32	40B32SS	5.376	B	3/4	2 1/4	3 1/4	1	3.16	A	40A32SS	19/32	1.48
35	40B35SS	5.860	B	3/4	2 1/4	3 1/4	1	3.32	A	40A35SS	19/32	1.92
36	40B36SS	6.015	B	3/4	2 1/4	3 1/4	1	3.58	A	40A36SS	19/32	1.84
40	40B40SS	6.650	B	3/4	2 3/8	3 1/2	1 1/8	4.28	A	40A40SS	23/32	2.36
45	40B45SS	7.450	B	3/4	2 3/8	3 1/2	1 1/8	4.68	A	40A45SS	23/32	3.13
48	40B48SS	7.928	B	3/4	2 3/8	3 1/2	1 1/8	5.84	A	40A48SS	23/32	3.22
54	40B54SS	8.884	B	3/4	2 3/8	3 1/2	1 1/8	6.42	A	40A54SS	23/32	4.44
60	40B60SS	9.840	B	3/4	2 3/8	3 1/2	1 1/8	7.00	A	40A60SS	23/32	5.50

★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

Sprockets altered at factory (rebored with keyway and setscrew added) will be supplied with stainless setscrew.

No. 40

1/2" Pitch

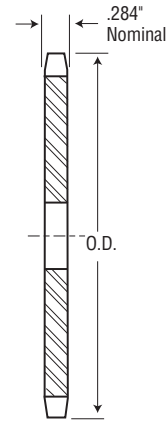
All Steel Stock Sprockets



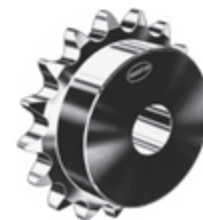
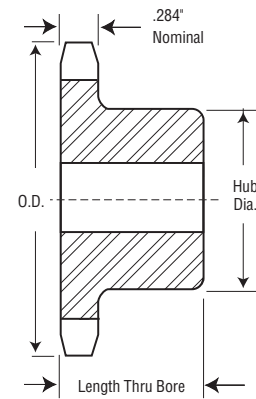
Single - Type B

Single - Type A

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs (Approx.)	Type	Catalog Number	Stock Bore	Weight Lbs. (Approx.)
				Stock	Rec. Max.	Diameter	Length Thru Bore					
8	40B8	1.510	B	1/2	1/2	5/8*	7/8	0.18				
9	40B9	1.670	B	1/2	5/8	1 1/16*	7/8	0.20				
10	40B10	1.840	B	1/2	3/4	1 1/4*	7/8	0.27				
11	40B11	2.000	B	1/2	3/4	1 3/8*	7/8	0.35				
12	40B12	2.170	B	1/2	1	1 5/16*	7/8	0.45	A	40A12	1/2	0.18
13	40B13	2.330	B	1/2	1 1/16	1 5/8	7/8	0.50	A	40A13	1/2	0.22
14	40B14	2.490	B	1/2	1 1/8	1 7/16	7/8	0.59	A	40A14	1/2	0.26
15	40B15	2.650	B	1/2	1 1/4	1 9/16	7/8	0.70	A	40A15	1/2	0.30
16	40B16	2.810	B	5/8	1 1/8	2	1	0.79	A	40A16	5/8	0.34
17	40B17	2.980	B	5/8	1 1/16	2 1/8	1	1.04	A	40A17	5/8	0.36
18	40B18	3.140	B	5/8	1 1/8	2 3/8	1	1.22	A	40A18	5/8	0.44
19	40B19	3.300	B	5/8	1 1/4	2 5/8	1	1.43	A	40A19	5/8	0.46
20	40B20	3.460	B	5/8	1 1/2	3	1	1.56	A	40A20	5/8	0.56
21	40B21	3.620	B	5/8	1 5/8	3 1/8	1	1.73	A	40A21	5/8	0.58
22	40B22	3.780	B	5/8	1 7/8	3 3/8	1	1.96	A	40A22	5/8	0.66
23	40B23	3.940	B	5/8	2	3 5/8	1	2.13	A	40A23	5/8	0.72
24	40B24	4.100	B	5/8	2 1/4	4 1/8	1	2.41	A	40A24	5/8	0.82
25	40B25	4.260	B	5/8	2 1/2	4 3/8	1	2.54	A	40A25	5/8	0.88
26	40B26	4.420	B	5/8	2 3/4	4 5/8	1	2.58	A	40A26	5/8	0.94
27	40B27	4.580	B	5/8	2 7/8	4 7/8	1	2.66	A	40A27	5/8	0.98
28	40B28	4.740	B	5/8	3	5 1/8	1	2.73	A	40A28	5/8	1.10
29	40B29	4.900	B	5/8	3 1/8	5 3/8	1	2.80	A	40A29	1 1/2	1.22
30	40B30	5.060	B	5/8	3 1/4	5 5/8	1	2.98	A	40A30	1 1/2	1.26
31	40B31	5.220	B	5/8	3 3/8	5 7/8	1	3.10	A	40A31	1 1/2	1.40
32	40B32	5.380	B	5/8	3 1/2	6 1/8	1	3.16	A	40A32	1 1/2	1.48
33	40B33	5.540	B	5/8	3 5/8	6 3/8	1	3.22	A	40A33	1 1/2	1.56
34	40B34	5.700	B	5/8	4	6 5/8	1	3.30	A	40A34	1 1/2	1.64
35	40B35	5.860	B	5/8	4 1/8	6 7/8	1	3.46	A	40A35	1 1/2	1.70
36	40B36	6.020	B	5/8	4 1/4	7 1/8	1	3.58	A	40A36	1 1/2	1.84
37	40B37	6.180	B	5/8	4 3/8	7 3/8	1	3.62	A	40A37	1 1/2	1.92
38	40B38	6.330	B	5/8	4 5/8	7 5/8	1	3.70	A	40A38	1 1/2	2.00
39	40B39	6.490	B	5/8	4 7/8	7 7/8	1	3.76	A	40A39	1 1/2	2.02
40	40B40	6.650	B	3/4	5	8 1/8	1 1/8	4.69	A	40A40	3/2	2.22
41	40B41	6.810	B	3/4	5 1/8	8 3/8	1 1/8	4.76	A	40A41	3/2	2.40
42	40B42	6.970	B	3/4	5 1/4	8 5/8	1 1/8	4.82	A	40A42	3/2	2.52
43	40B43	7.130	B	3/4	5 3/8	8 7/8	1 1/8	5.12	A	40A43	3/2	2.64
44	40B44	7.290	B	3/4	5 1/2	9 1/8	1 1/8	5.15	A	40A44	3/2	2.81
45	40B45	7.450	B	3/4	5 5/8	9 3/8	1 1/8	5.30	A	40A45	3/2	2.90
46	40B46	7.610	B	3/4	5 7/8	9 5/8	1 1/8	5.57	A	40A46	3/2	3.03
47	40B47	7.770	B	3/4	6	9 7/8	1 1/8	5.44	A	40A47	3/2	3.17
48	40B48	7.930	B	3/4	6 1/8	10 1/8	1 1/8	5.84	A	40A48	3/2	3.31
49	40B49	8.090	B	3/4	6 1/4	10 3/8	1 1/8	5.90	A	40A49	3/2	3.45
50	40B50	8.250	B	3/4	6 3/8	10 5/8	1 1/8	5.96	A	40A50	3/2	3.60
51	40B51	8.410	B	3/4	6 5/8	10 7/8	1 1/8	6.08	A	40A51	3/2	3.75
52	40B52	8.570	B	3/4	6 7/8	11 1/8	1 1/8	6.28	A	40A52	3/2	3.90
53	40B53	8.730	B	3/4	7	11 3/8	1 1/8	6.33	A	40A53	3/2	4.05
54	40B54	8.890	B	3/4	7 1/8	11 5/8	1 1/8	6.42	A	40A54	3/2	4.44
55	40B55	9.040	B	3/4	7 3/8	11 7/8	1 1/8	6.46	A	40A55	3/2	4.54
56	40B56	9.200	B	3/4	7 5/8	12 1/8	1 1/8	6.89	A	40A56	3/2	4.84
57	40B57	9.360	B	3/4	7 7/8	12 3/8	1 1/8	7.02	A	40A57	3/2	5.00
58	40B58	9.520	B	3/4	8	12 5/8	1 1/8	7.36	A	40A58	3/2	5.12
59	40B59	9.680	B	3/4	8 1/8	12 7/8	1 1/8	7.45	A	40A59	3/2	5.30
60	40B60	9.840	B	3/4	8 3/8	13 1/8	1 1/8	7.86	A	40A60	3/2	5.48
70	40B70	11.430	B	3/4	9 1/2	14 3/8	1 1/2	11.00	A	40A70	3/2	7.24
72	40B72	11.750	B	3/4	10	15 1/8	1 1/2	11.50	A	40A72	3/2	7.56
80	40B80	13.030	B	3/4	11 1/4	17 1/8	1 1/2	13.40	A	40A80	3/2	10.20
84	40B84	13.660	B	3/4	12 1/4	18 3/8	1 1/2	14.04	A	40A84	3/2	10.07
96	40B96	15.570	B	1	14 1/4	21 1/8	1 1/2	17.56	A	40A96	1 1/2	12.15
112	40B112	18.120	B	1	17 1/4	25 1/8	1 1/2	22.56	A	40A112	1 1/2	20.00



TYPE A



TYPE B

* Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

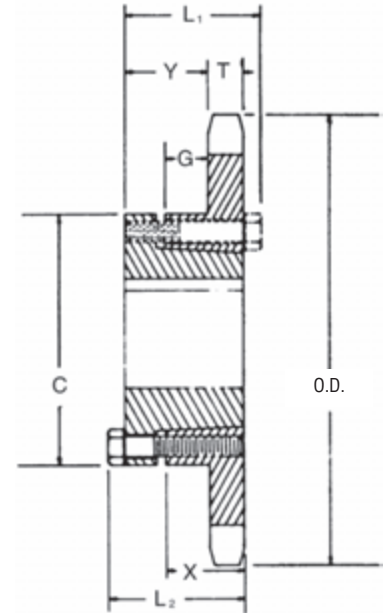
Alteration Charges

See current discount sheet for alteration charges.

Single - Type QD With Hardened Teeth

No. Teeth	Catalog Number
15	40JA15H
16	40JA16H
17	40JA17H
18	40JA18H
19	40JA19H
20	40SH20H
21	40SH21H
22	40SH22H
23	40SH23H
24	40SH24H
25	40SH25H
26	40SH26H
27	40SH27H
28	40SH28H
30	40SH30H

**SABER
TOOTH®**



QD — TYPE B

Single - Type QD

No. Teeth	Catalog Number	Bush- ing	Diameters		Type	Max. Bore	Dimensions							Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter			L ₁	L ₂	C	Y	G	X	T	With Hub	Rim Only
15	40JA15	JA	2.650	2.405	B	1 1/4	1 1/8	1 1/8	2 1/16	3/32	1 1/32	5/8	0.284	1.24	0.34
16	40JA16	JA	2.810	2.563	B	1 1/4	1 1/8	1 1/8	2 1/16	3/32	1 1/32	5/8	0.284	1.30	0.40
17	40JA17	JA	2.980	2.721	B	1 1/4	1 1/8	1 1/8	2 1/16	3/32	1 1/32	5/8	0.284	1.38	0.48
18	40JA18	JA	3.140	2.879	B	1 1/4	1 1/8	1 1/8	2 1/16	3/32	1 1/32	5/8	0.284	1.44	0.54
19	40JA19	JA	3.300	3.038	B	1 1/4	1 1/8	1 1/8	2 1/16	3/32	1 1/32	5/8	0.284	1.50	0.60
20	40SH20	SH	3.460	3.196	B	1 1/4	1 1/8	1 1/8	2 1/16	3/32	1 1/32	5/8	0.284	1.76	0.76
21	40SH21	SH	3.620	3.355	B	1 1/4	1 1/8	1 1/8	2 1/16	3/32	1 1/32	5/8	0.284	1.84	0.84
22	40SH22	SH	3.780	3.513	B	1 1/4	1 1/8	1 1/8	2 1/16	3/32	1 1/32	5/8	0.284	1.92	0.92
23	40SH23	SH	3.940	3.672	B	1 1/4	1 1/8	1 1/8	2 1/16	3/32	1 1/32	5/8	0.284	2.14	1.14
24	40SH24	SH	4.100	3.831	B	1 1/4	1 1/8	1 1/8	2 1/16	3/32	1 1/32	5/8	0.284	2.22	1.22
25	40SH25	SH	4.260	3.989	B	1 1/4	1 1/8	1 1/8	2 1/16	3/32	1 1/32	5/8	0.284	2.30	1.30
26	40SH26	SH	4.420	4.148	B	1 1/4	1 1/8	1 1/8	2 1/16	3/32	1 1/32	5/8	0.284	2.44	1.44
27	40SH27	SH	4.580	4.307	B	1 1/4	1 1/8	1 1/8	2 1/16	3/32	1 1/32	5/8	0.284	2.46	1.46
28	40SH28	SH	4.740	4.466	B	1 1/4	1 1/8	1 1/8	2 1/16	3/32	1 1/32	5/8	0.284	2.54	1.54
30	40SH30	SH	5.060	4.783	B	1 1/4	1 1/8	1 1/8	2 1/16	3/32	1 1/32	5/8	0.284	2.72	1.72
32	40SH32	SH	5.380	5.101	B	1 1/4	1 1/8	1 1/8	2 1/16	3/32	1 1/32	5/8	0.284	2.90	1.90
35	40SH35	SH	5.860	5.578	B	1 1/4	1 1/8	1 1/8	3	3/32	1 1/32	5/8	0.284	3.22	2.22
36	40SDS36	SDS	6.020	5.737	B	2	1 1/2	1 1/2	3 3/16	1 1/2	1 1/2	3/4	0.284	3.20	2.20
40	40SDS40	SDS	6.650	6.373	B	2	1 1/2	1 1/2	3 3/16	1 1/2	1 1/2	3/4	0.284	3.72	2.72
42	40SDS42	SDS	6.970	6.691	B	2	1 1/2	1 1/2	3 3/16	1 1/2	1 1/2	3/4	0.284	3.92	2.92
45	40SDS45	SDS	7.450	7.168	B	2	1 1/2	1 1/2	3 3/16	1 1/2	1 1/2	3/4	0.284	4.32	3.32
48	40SDS48	SDS	7.930	7.645	B	2	1 1/2	1 1/2	3 3/16	1 1/2	1 1/2	3/4	0.284	4.70	3.70
54	40SDS54	SDS	8.890	8.599	B	2	1 1/2	1 1/2	3 3/16	1 1/2	1 1/2	3/4	0.284	5.78	4.78
60	40SDS60	SDS	9.840	9.554	B	2	1 1/2	1 1/2	3 3/16	1 1/2	1 1/2	3/4	0.284	6.86	5.86
70	40SK70	SK	11.430	11.145	B	2 1/2	2 1/2	2 1/2	3 3/8	1 1/2	3/2	1 1/4	0.284	10.68	8.68
72	40SK72	SK	11.750	11.463	B	2 1/2	2 1/2	2 1/2	3 3/8	1 1/2	3/2	1 1/4	0.284	10.84	8.84
80	40SK80	SK	13.030	12.736	B	2 1/2	2 1/2	2 1/2	3 3/8	1 1/2	3/2	1 1/4	0.284	13.20	11.20
84	40SK84	SK	13.660	13.372	B	2 1/2	2 1/2	2 1/2	3 3/8	1 1/2	3/2	1 1/4	0.284	13.56	11.56
96	40SK96	SK	15.570	15.282	B	2 1/2	2 1/2	2 1/2	3 3/8	1 1/2	3/2	1 1/4	0.284	17.76	15.76
112	40SK112	SK	18.120	17.828	B	2 1/2	2 1/2	2 1/2	3 3/8	1 1/2	3/2	1 1/4	0.284	22.28	20.28

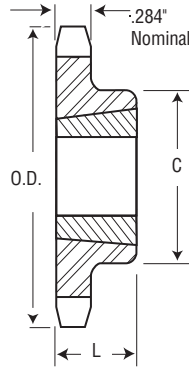
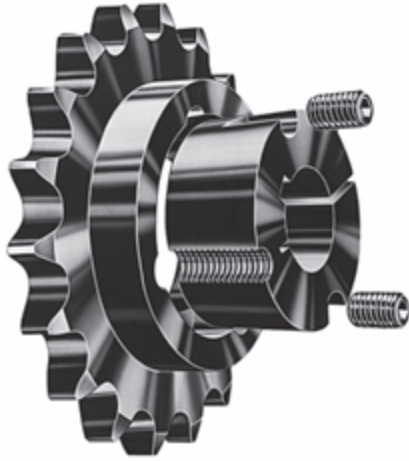
No. 40

1/2" Pitch

All Steel Stock Sprockets

Martin

Single - Taper Bushed with Hardened Teeth



**TAPER BUSHED
TYPE B**

**SABER
TOOTH®**

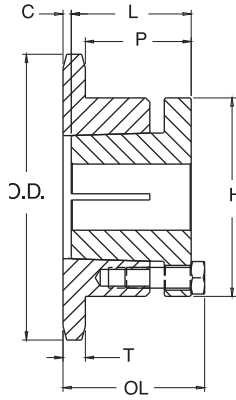
No. Teeth	Catalog Number
14	40BTB14H
15	40BTB15H
16	40BTB16H
17	40BTB17H
18	40BTB18H
19	40BTB19H
20	40BTB20H
21	40BTB21H
22	40BTB22H
23	40BTB23H
24	40BTB24H
25	40BTB25H
26	40BTB26H
28	40BTB28H
30	40BTB30H

Single - Taper Bushed

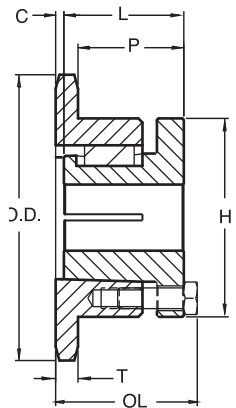
No. Teeth	Catalog Number	Bushing	Diameters		Max. Bore	Dimensions		Type	Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter		L	C		Rim Only	Bushing Only
14	40BTB14	1008	2.491	2.247	1	3/8	★1 1/16	B	0.3	0.3
15	40BTB15	1008	2.652	2.405	1	3/8	1 1/16	B	0.4	0.3
16	40BTB16	1008	2.814	2.563	1	3/8	1 1/16	B	0.5	0.3
17	40BTB17	1210	2.975	2.721	1 1/4	1	★2 3/8	B	0.5	0.3
18	40BTB18	1210	3.135	2.879	1 1/4	1	★2 7/32	B	0.6	0.6
19	40BTB19	1210	3.296	3.038	1 1/4	1	2 7/32	B	0.7	0.6
20	40BTB20	1610	3.457	3.196	1 1/2	1	★2 9/32	B	0.7	0.9
21	40BTB21	1610	3.617	3.355	1 1/2	1	2 9/32	B	0.8	0.9
22	40BTB22	1610	3.778	3.513	1 1/2	1	2 9/32	B	0.9	0.9
23	40BTB23	1610	3.938	3.672	1 1/2	1	3 3/32	B	1.0	0.9
24	40BTB24	1610	4.098	3.831	1 1/2	1	3 1/4	B	1.4	0.9
25	40BTB25	1610	4.258	3.989	1 1/2	1	3 1/32	B	1.5	0.9
26	40BTB26	1610	4.418	4.148	1 1/2	1	3 1/2	B	1.7	0.9
28	40BTB28	1610	4.738	4.466	1 1/2	1	3 1/2	B	1.8	0.9
30	40BTB30	1610	5.057	4.783	1 1/2	1	3 1/2	B	1.9	0.9
32	40BTB32	1610	5.377	5.101	1 1/2	1	3 1/2	B	1.9	0.9
35	40BTB35	1610	5.855	5.578	1 1/2	1	3 1/2	B	2.3	0.9
36	40BTB36	1610	6.015	5.737	1 1/2	1	3	B	2.4	0.9
40	40BTB40	1610	6.653	6.373	1 1/2	1	3	B	2.8	0.9
42	40BTB42	1610	6.972	6.691	1 1/2	1	3	B	2.9	0.9
45	40BTB45	1610	7.451	7.168	1 1/2	1	3	B	3.5	0.9
48	40BTB48	1610	7.928	7.645	1 1/2	1	3	B	4.0	0.9
54	40BTB54	1610	8.885	8.599	1 1/2	1	3	B	4.9	0.9
60	40BTB60	1610	9.841	9.554	1 1/2	1	3	B	6.0	0.9
70	40BTB70	2012	11.434	11.145	2	1 1/4	3 3/16	B	8.2	1.7
72	40BTB72	2012	11.752	11.463	2	1 1/4	3 3/16	B	9.0	1.7
80	40BTB80	2012	13.026	12.736	2	1 1/4	3 3/16	B	10.8	1.7
84	40BTB84	2012	13.663	13.372	2	1 1/4	3 3/16	B	11.3	1.7
96	40BTB96	2012	15.573	15.282	2	1 1/4	3 3/16	B	14.6	1.7
112	40BTB112	2517	18.122	17.828	2 1/2	1 3/4	4 1/4	B	20.5	1.7

★ Has recessed groove in hub for chain clearance.

Single - MST[®] Sprockets



TYPE 3



TYPE 4

No. Teeth	Catalog Number	Bush-ing	Diameters		Type	Max. Bore	Dimensions						Weight Lbs. (Approx.)	
			Outside Dia.	Pitch Dia.			OL	L	C	H	P	T(nom)	With Hub	Rim Only
15	40H15H	H	2.650	2.405	3	1-1/2	1-19/32	1-1/4	5/32	2-1/2	1-1/8	.284	1.3	0.5
16	40H16H	H	2.810	2.563	3	1-1/2	1-19/32	1-1/4	5/32	2-1/2	1-1/8	.284	1.4	0.6
17	40H17H	H	2.980	2.721	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-1/32	.284	1.4	0.6
18	40H18H	H	3.140	2.879	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-1/32	.284	1.4	0.6
18	40P18H	P1	3.140	2.879	3	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	2.7	1.4
19	40H19H	H	3.300	3.038	3	1-1/2	1-1/2	1-1/4	1/16	2 1/2	1-1/32	.284	1.6	0.8
19	40P19H	P1	3.300	3.038	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	2.6	1.3
20	40H20H	H	3.460	3.196	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-1/32	.284	1.7	0.9
20	40P20H	P1	3.460	3.196	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	2.6	1.3
21	40H21H	H	3.620	3.355	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-1/32	.284	1.7	0.9
21	40P21H	P1	3.620	3.355	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	2.8	1.5
22	40H22H	H	3.780	3.513	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-1/32	.284	1.8	1.0
22	40P22H	P1	3.780	3.513	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	2.9	1.6
23	40H23H	H	3.940	3.672	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-1/32	.284	1.8	1.0
23	40P23H	P1	3.940	3.672	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	3.0	1.7
24	40H24H	H	4.100	3.831	3	1-1/2	1 1/2	1-1/4	1/16	2-1/2	1-1/32	.284	1.9	1.1
24	40P24H	P1	4.100	3.831	4	1-3/4	2 3/16	1-15/16	0	3	1-21/32	.284	3.1	1.8
25	40H25H	H	4.260	3.989	3	1-1/2	1 1/2	1-1/4	1/16	2-1/2	1-1/32	.284	2.1	1.3
25	40P25H	P1	4.260	3.989	4	1-3/4	2 3/16	1-15/16	0	3	1-21/32	.284	3.2	1.9
26	40H26H	H	4.420	4.148	3	1-1/2	1 1/2	1-1/4	1/16	2-1/2	1-1/32	.284	2.1	1.3
26	40P26H	P1	4.420	4.148	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	3.2	1.9
27	40H27H	H	4.580	4.307	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-1/32	.284	2.2	1.4
28	40H28H	H	4.740	4.466	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-1/32	.284	2.2	1.4
28	40P28H	P1	4.740	4.466	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	3.4	2.1
29	40P29H	P1	4.900	4.625	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	3.6	2.3
30	40H30H	H	5.060	4.783	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-1/32	.284	2.4	1.6
30	40P30H	P1	5.060	4.783	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	3.6	2.3
31	40P31	P1	5.220	4.942	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	3.8	2.5
32	40H32H	H	5.380	5.101	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-1/32	.284	2.6	1.8
32	40P32	P1	5.380	5.101	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	3.9	2.6
33	40H33H	H	5.540	5.260	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-1/32	.284	2.7	1.9
33	40P33	P1	5.540	5.260	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	3.9	2.6
34	40P34	P1	5.700	5.419	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	4.1	2.8
35	40H35H	H	5.860	5.578	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-1/32	.284	2.9	2.1
35	40P35	P1	5.860	5.578	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	4.2	2.9
36	40H36H	H	6.020	5.737	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-1/32	.284	3.1	2.3
36	40P36	P1	6.020	5.737	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	4.4	3.1
37	40P37	P1	6.180	5.896	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	4.6	3.3
38	40H38H	H	6.330	6.055	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-1/32	.284	3.4	2.6
38	40P38	P1	6.330	6.055	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	4.6	3.3
40	40H40H	H	6.650	6.373	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	1-1/32	.284	3.6	2.8
40	40P40	P1	6.650	6.373	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	4.8	3.5
41	40P41	P1	6.810	6.532	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	4.9	3.6
42	40P42	P1	6.970	6.691	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	5.2	3.9
44	40P44	P1	7.290	7.009	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	5.3	4.0
45	40P45	P1	7.450	7.168	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	5.5	4.2
47	40P47	P1	7.770	7.486	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	5.9	4.6
48	40P48	P1	7.930	7.645	4	1-3/4	2 3/16	1-15/16	0	3	1-21/32	.284	6.1	4.8
50	40P50	P1	8.250	7.963	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	6.3	5.0
54	40P54	P1	8.890	8.599	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	6.8	5.5
56	40P56	P1	9.200	8.917	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	7.2	5.9
60	40P60	P1	9.840	9.554	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	7.9	6.6
60	40Q60	Q1	9.840	9.554	4	2-11/16	2-25/32	2-1/2	0	4-1/8	2-7/32	.284	12.3	8.8
70	40P70	P1	11.430	11.145	4	1-3/4	2-3/16	1-15/16	0	3	1-21/32	.284	9.9	8.6
70	40Q70	Q1	11.430	11.145	4	2-11/16	2-25/32	2-1/2	0	4-1/8	2-7/32	.284	14.5	11.0
72	40Q72	Q1	11.750	11.463	4	2-11/16	2-25/32	2-1/2	0	4-1/8	2-7/32	.284	14.7	11.2
80	40Q80	Q1	13.030	12.736	4	2-11/16	2-25/32	2-1/2	0	4-1/8	2-7/32	.284	16.6	13.1
84	40Q84	Q1	13.660	13.372	4	2-11/16	2-25/32	2-1/2	0	4-1/8	2-7/32	.284	17.6	14.1
96	40Q96	Q1	15.570	15.281	4	2-11/16	2-25/32	2-1/2	0	4-1/8	2-7/32	.284	16.3	12.8
112	40Q112	Q1	18.120	17.828	4	2-11/16	2-25/32	2-1/2	0	4-1/8	2-7/32	.284	20.8	17.3

Sprockets with "H" suffix have hardened teeth.

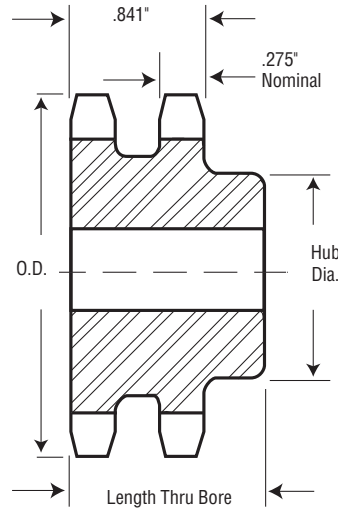
No. 40-2

1/2" Pitch

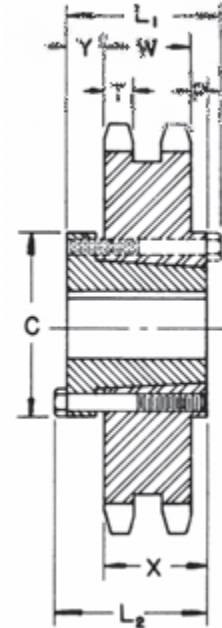
All Steel Stock Sprockets

Double - Type B

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)
				Stock	Rec. Max.	Dia.	Length Thru	
11	D40B11H	2.000	B	1/2	3/4	1 1/16*	1 1/2	0.62
12	D40B12H	2.170	B	1/2	7/8	1 1/8*	1 1/2	0.76
13	D40B13H	2.330	B	1/2	1	1 1/2	1 1/2	0.86
14	D40B14H	2.490	B	1/2	1 1/8	1 1/8	1 1/2	1.08
15	D40B15H	2.650	B	1/2	1 1/4	1 1/8	1 1/2	1.24
16	D40B16H	2.810	B	1/2	1 1/2	2	1 1/2	1.42
17	D40B17H	2.980	B	1/2	1 5/8	2 1/8	1 1/2	1.64
18	D40B18H	3.140	B	1/2	1 3/4	2 1/4	1 1/2	1.92
19	D40B19H	3.300	B	5/8	1 3/4	2 1/2	1 1/2	2.22
20	D40B20H	3.460	B	5/8	1 1/2	2 1/2	1 1/2	2.64
21	D40B21H	3.620	B	5/8	1 1/2	2 1/2	1 1/2	2.94
22	D40B22H	3.780	B	5/8	1 1/2	2 1/2	1 1/2	3.18
23	D40B23H	3.940	B	3/4	2	3	1 1/2	3.52
24	D40B24H	4.100	B	3/4	2 1/4	3 1/4	1 1/2	4.04
25	D40B25H	4.260	B	3/4	2 1/4	3 1/4	1 1/2	4.26
26	D40B26	4.420	B	3/4	2 1/4	3 1/4	1 1/2	4.48
30	D40B30	5.060	B	7/8	2 1/4	3 3/4	1 1/2	5.34
35	D40B35	5.860	B	7/8	2 1/4	3 3/4	1 1/2	6.80
36	D40B36	6.020	B	1 1/16	2 1/2	3 3/4	1 1/2	7.20
40	D40B40	6.650	B	1 1/8	2 1/2	3 3/4	1 1/2	9.40
42	D40B42	6.970	B	1 1/8	2 1/2	3 3/4	1 1/2	10.20
45	D40B45	7.450	B	1 1/8	2 1/2	3 3/4	1 1/2	11.36
48	D40B48	7.930	B	1 1/8	2 1/2	3 3/4	1 1/2	12.66
52	D40B52	8.570	B	1 1/8	2 1/2	3 3/4	1 1/2	14.46
54	D40B54	8.890	B	1 1/8	2 1/2	3 3/4	1 1/2	15.48
60	D40B60	9.840	B	1 1/8	2 1/2	3 3/4	1 1/2	18.60
68	D40B68	11.120	B	1 3/8	2 1/2	4 1/4	2 1/2	24.96
72	D40B72	11.750	B	1 3/8	2 1/2	4 1/4	2 1/2	27.88
76	D40B76	12.390	B	1 3/8	2 1/2	4 1/4	2 1/2	30.18
84	D40B84	13.660	B	1 3/8	2 1/2	4 1/4	2 1/2	36.24
95	D40B95	15.410	B	1 3/8	2 1/2	4 1/4	2 1/2	38.84
96	D40B96	15.570	B	1 3/8	2 1/2	4 1/4	2 1/2	39.50
102	D40B102	16.530	B	1 3/8	2 1/2	4 1/4	2 1/2	42.72
112	D40B112	18.120	B	1 3/8	2 1/2	4 1/4	2 1/2	55.54



TYPE B



QD — TYPE C

Alteration Charges

See current discount sheet for alteration charges.

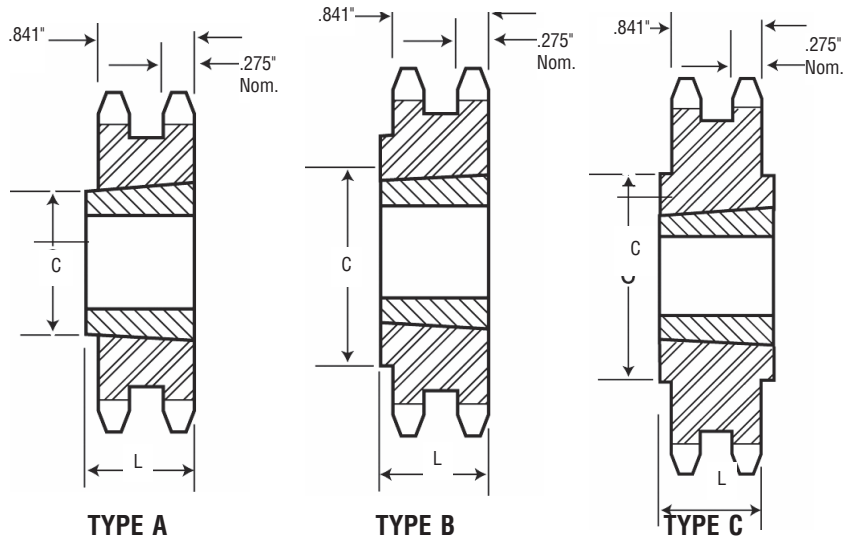
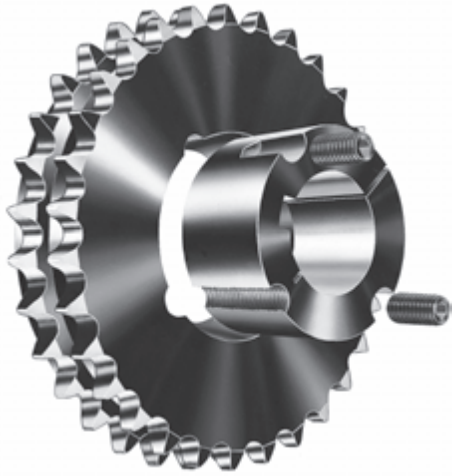
* Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

NOTE: Double 40 stock sprockets with 25 teeth or less have hardened teeth. As indicated by H suffix.

Double - Type QD

No. Teeth	Catalog Number	Bush-ing	Diameters		Type	Max. Bore	Dimensions							Weight Lbs. (Approx.)		
			Outside Diameter	Pitch Diameter			L ₁	L ₂	C	Y	P	X	T	W	With Hub	Rim Only
36	D40SK36	SK	6.020	5.737	C	2 1/2	2 1/2	2 1/2	3 3/4	3/4	1 1/2	1 1/4	0.275	0.841	6.68	4.68
40	D40SK40	SK	6.650	6.373	C	2 1/2	2 1/2	2 1/2	3 3/4	3/4	1 1/2	1 1/4	0.275	0.841	8.02	6.02
42	D40SK42	SK	6.970	6.691	C	2 1/2	2 1/2	2 1/2	3 3/4	3/4	1 1/2	1 1/4	0.275	0.841	8.82	6.82
45	D40SK45	SK	7.450	7.168	C	2 1/2	2 1/2	2 1/2	3 3/4	3/4	1 1/2	1 1/4	0.275	0.841	9.98	7.98
48	D40SK48	SK	7.930	7.645	C	2 1/2	2 1/2	2 1/2	3 3/4	3/4	1 1/2	1 1/4	0.275	0.841	11.22	9.22
52	D40SK52	SK	8.570	8.281	C	2 1/2	2 1/2	2 1/2	3 3/4	3/4	1 1/2	1 1/4	0.275	0.841	13.04	11.04
54	D40SK54	SK	8.890	8.599	C	2 1/2	2 1/2	2 1/2	3 3/4	3/4	1 1/2	1 1/4	0.275	0.841	14.06	12.06
60	D40SK60	SK	9.840	9.554	C	2 1/2	2 1/2	2 1/2	3 3/4	3/4	1 1/2	1 1/4	0.275	0.841	16.98	14.98
68	D40SF68	SF	11.180	10.826	C	2 1/2	2 1/2	2 1/2	4 1/4	3/4	1 1/2	1 1/4	2.750	0.841	22.72	19.72
72	D40SF72	SF	11.750	11.463	C	2 1/2	2 1/2	2 1/2	4 1/4	3/4	1 1/2	1 1/4	2.750	0.841	24.20	22.20
76	D40SF76	SF	12.390	12.099	C	2 1/2	2 1/2	2 1/2	4 1/4	3/4	1 1/2	1 1/4	2.750	0.841	28.20	25.20
84	D40SF84	SF	13.660	13.372	C	2 1/2	2 1/2	2 1/2	4 1/4	3/4	1 1/2	1 1/4	2.750	0.841	33.64	30.64
95	D40SF95	SF	15.410	15.122	C	2 1/2	2 1/2	2 1/2	4 1/4	3/4	1 1/2	1 1/4	2.750	0.841	40.22	37.22
102	D40SF102	SF	16.530	16.236	C	2 1/2	2 1/2	2 1/2	4 1/4	3/4	1 1/2	1 1/4	2.750	0.841	42.70	39.70
112	D40SF112	SF	18.120	17.828	C	2 1/2	2 1/2	2 1/2	4 1/4	3/4	1 1/2	1 1/4	2.750	0.841	52.60	49.60



Double - Taper Bushed

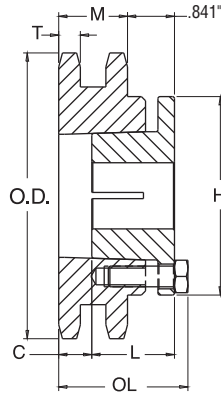
No. Teeth	Catalog Number	Bushing	Diameters		Max. Bore	Dimensions		Type	Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter		L	C		Rim Only	Bushing Only
15	D40ATB15H	1008	2.652	2.405	1	3/4	1 1/4	A	0.5	0.3
16	D40ATB16H	1008	2.814	2.563	1	3/4	1 1/4	A	0.6	0.3
17	D40ATB17H	1008	2.975	2.721	1	3/4	1 1/4	A	0.7	0.3
18	D40BTB18H	1210	3.135	2.879	1 1/4	1	2 5/8	B	0.7	0.6
19	D40BTB19H	1210	3.296	3.038	1 1/4	1	2 1/2	B	0.9	0.6
20	D40BTB20H	1610	3.457	3.196	1 3/8	1	2 5/8	B	0.9	0.9
21	D40BTB21H	1610	3.617	3.355	1 3/8	1	2 5/8	B	1.0	0.9
23	D40BTB23H	1610	3.938	3.672	1 3/8	1	3	B	1.3	0.9
25	D40BTB25H	2012	4.258	3.989	2	1 1/4	3 3/32	B	1.6	1.7
30	D40BTB30	2012	5.057	4.783	2	1 1/4	4 1/4	B	3.4	1.7
36	D40BTB36	2012	6.015	5.737	2	1 1/4	5 5/32	B	5.9	1.7
42	D40CTB42	2517	6.972	6.691	2 1/2	1 3/4	4 1/4	C	7.0	3.5
48	D40CTB48	2517	7.928	7.645	2 1/2	1 3/4	4 1/4	C	9.6	3.5
52	D40CTB52	2517	8.566	8.281	2 1/2	1 3/4	4 1/4	C	11.4	3.5
60	D40CTB60	2517	9.841	9.554	2 1/2	1 3/4	4 1/4	C	15.4	3.5
68	D40CTB68	2517	11.115	10.826	2 1/2	1 3/4	4 1/4	C	20.5	3.5
76	D40CTB76	2517	12.389	12.099	2 1/2	1 3/4	4 1/4	C	25.7	3.5
84	D40CTB84	2517	13.663	13.372	2 1/2	1 3/4	4 1/4	C	31.6	3.5
95	D40CTB95	2517	15.414	15.122	2 1/2	1 3/4	4 1/4	C	34.1	3.5
102	D40CTB102	2517	16.529	16.236	2 1/2	1 3/4	4 1/4	C	36.8	3.5

NOTE: Double 40 stock sprockets with 25 teeth or less have hardened teeth. As indicated by H suffix.

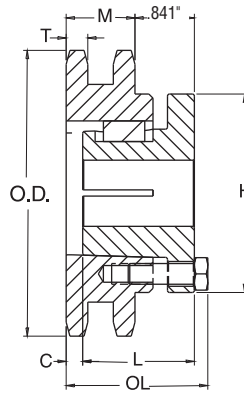
No. 40-2

1/2" Pitch

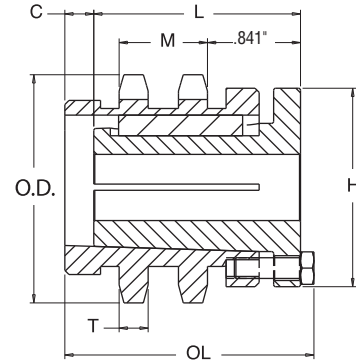
All Steel Stock Sprockets



TYPE 11



TYPE 12



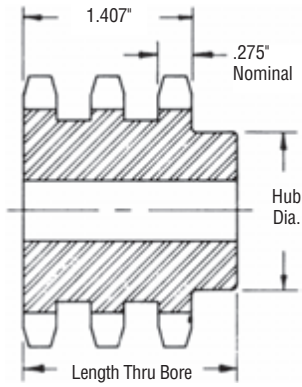
TYPE 16

Double - MST® Sprockets

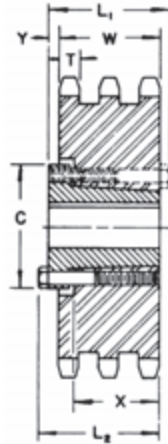
No. Teeth	Catalog Number	Bush-ing	Diameters		Type	Max. Bore	Dimensions						Weight Lbs. (Approx.)	
			Outside Dia.	Pitch Dia.			OL	L	C	H	P	T(nom)	With Hub	Rim Only
15	D40H15H	H	2.650	2.405	11	1-1/2	2-5/32	1-1/4	23/32	2-1/2	1-1/8	0.275	1.7	0.9
16	D40H16H	H	2.810	2.563	11	1-1/2	2-5/32	1-1/4	23/32	2-1/2	1-1/8	0.275	1.8	1.0
17	D40H17H	H	2.980	2.721	11	1-1/2	2-5/32	1-1/4	23/32	2-1/2	1-1/8	0.275	1.9	1.1
18	D40P18H	P1	3.140	2.879	16	1-3/4	3-3/16	1-15/16	1	3	1-3/8	0.275	3.1	1.8
19	D40P19H	P1	3.300	3.038	12	1-3/4	2-15/32	1-15/16	9/32	3	1-3/8	0.275	2.7	1.4
20	D40P20H	P1	3.460	3.196	12	1-3/4	2-13/32	1-15/16	7/32	3	1-3/8	0.275	2.9	1.6
21	D40P21H	P1	3.620	3.355	12	1-3/4	2-13/32	1-15/16	7/32	3	1-3/8	0.275	3.1	1.8
22	D40P22H	P1	3.780	3.513	12	1-3/4	2-13/32	1-15/16	7/32	3	1-3/8	0.275	3.3	2.0
23	D40P23H	P1	3.940	3.672	12	1-3/4	2-3/16	1-15/16	0	3	1-3/32	0.275	3.3	2.0
24	D40P24H	P1	4.100	3.831	12	1-3/4	2-3/16	1-15/16	0	3	1-3/32	0.275	3.5	2.2
25	D40P25H	P1	4.260	3.989	12	1-3/4	2-3/16	1-15/16	0	3	1-3/32	0.275	3.8	2.5
26	D40P26H	P1	4.420	4.148	12	1-3/4	2-3/16	1-15/16	0	3	1-3/32	0.275	4.0	2.7
28	D40P28H	P1	4.740	4.466	12	1-3/4	2-3/16	1-15/16	0	3	1-3/32	0.275	4.4	3.1
30	D40Q30H	Q1	5.060	4.783	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-21/32	0.275	7.7	4.2
32	D40Q32H	Q1	5.380	5.101	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-21/32	0.275	8.8	5.3
35	D40Q35H	Q1	5.860	5.578	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-21/32	0.275	9.6	6.1
36	D40Q36H	Q1	6.020	5.737	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-21/32	0.275	10.0	6.5
40	D40Q40H	Q1	6.650	6.373	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-21/32	0.275	11.4	7.9
42	D40Q42H	Q1	6.970	6.691	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-21/32	0.275	12.4	8.9
45	D40Q45H	Q1	7.450	7.168	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-21/32	0.275	13.6	10.1
48	D40Q48H	Q1	7.930	7.645	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-21/32	0.275	15.3	11.8
52	D40Q52H	Q1	8.570	8.281	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-21/32	0.275	16.1	12.6
54	D40Q54H	Q1	8.890	8.599	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-21/32	0.275	17.8	14.3
60	D40Q60H	Q1	9.840	9.554	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-21/32	0.275	20.9	17.4
68	D40Q68	Q1	11.120	10.826	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-21/32	0.275	25.0	21.5
72	D40Q72	Q1	11.750	11.463	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-21/32	0.275	28.5	25.0
76	D40Q76	Q1	12.390	12.099	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-21/32	0.275	30.4	26.9
84	D40Q84	Q1	13.660	13.372	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-21/32	0.275	37.6	34.1
95	D40Q95	Q1	15.410	15.122	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-21/32	0.275	45.5	42.0
96	D40Q96	Q1	15.570	15.281	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-21/32	0.275	47.6	44.
102	D40Q102	Q1	16.530	16.236	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-21/32	0.275	52.0	48.5
112	D40Q112	Q1	18.120	17.828	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-21/32	0.275	64.5	61.0

Sprockets with "H" suffix have hardened teeth.

Triple - Type B



TYPE B



QD — TYPE B

Alteration Charges

See current discount sheet for alteration charges.

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)
				Stock	Rec. Max.	Dia.	Length Thru	
11	E40B11H	2.000	B	1/2	3/4	1 1/16*	2 1/2	0.80
12	E40B12H	2.170	B	1/2	15/16	1 1/8*	2 1/2	1.10
13	E40B13H	2.330	B	1/2	1	1 1/8	2 1/2	1.24
14	E40B14H	2.490	B	1/2	1 1/8	1 1/8	2 1/2	1.50
15	E40B15H	2.650	B	1/2	1 1/4	1 1/8	2 1/2	1.76
16	E40B16H	2.810	B	5/8	1 1/2	2	2 1/2	2.04
17	E40B17H	2.980	B	5/8	1 5/8	2 1/8	2 1/2	2.34
18	E40B18H	3.140	B	5/8	1 3/4	2 1/8	2 1/2	2.72
19	E40B19H	3.300	B	5/8	1 3/4	2 1/8	2 1/2	3.10
20	E40B20H	3.460	B	5/8	1 3/4	2 1/8	2 1/2	3.72
21	E40B21H	3.620	B	5/8	1 3/4	2 1/8	2 1/2	4.06
22	E40B22H	3.780	B	5/8	1 3/4	2 1/8	2 1/2	4.52
23	E40B23H	3.940	B	5/8	2	3	2 1/2	4.96
24	E40B24H	4.100	B	5/8	2 1/4	3 1/4	2 1/2	5.64
25	E40B25H	4.260	B	5/8	2 1/4	3 1/4	2 1/2	6.02
26	E40B26	4.420	B	5/8	2 1/4	3 1/4	2 1/2	6.36
30	E40B30	5.060	B	7/8	2 1/4	3 1/4	2 1/2	7.84
35	E40B35	5.860	B	7/8	2 1/4	3 1/4	2 1/2	10.30
36	E40B36	6.020	B	15/16	2 1/2	3 3/4	2 3/4	11.72
42	E40B42	6.970	B	15/16	2 1/2	3 3/4	2 3/4	15.36
48	E40B48	7.930	B	15/16	2 1/2	3 3/4	2 3/4	19.36
52	E40B52	8.570	B	15/16	2 1/2	3 3/4	2 3/4	22.44
60	E40B60	9.840	B	15/16	2 1/2	3 3/4	2 3/4	30.02
68	E40B68	11.120	B	1 1/16	2 3/4	4	2 3/4	38.44
72	E40B72	11.750	B	1 1/16	2 3/4	4	2 3/4	42.46
76	E40B76	12.390	B	1 1/16	2 3/4	4	2 3/4	46.90
84	E40B84	13.660	B	1 1/16	2 3/4	4 1/4	2 3/4	57.30
95	E40B95	15.410	B	1 1/16	2 3/4	4 1/4	2 3/4	62.18
102	E40B102	16.530	B	1 1/16	2 3/4	4 1/4	2 3/4	68.40

* Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

NOTE: Triple 40 stock sprockets with 25 teeth or less have hardened teeth. As indicated by H suffix.

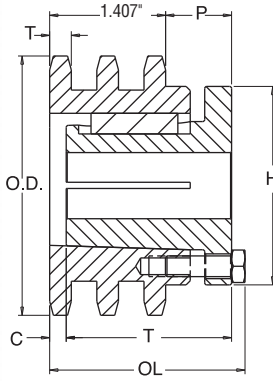
Triple - Type QD

No. Teeth	Catalog Number	Bush-ing	Diameters		Type	Max. Bore	Dimensions						Weight Lbs. (Approx.)		
			Outside Diameter	Pitch Diameter			L ₁	L ₂	C	Y	X	T	W	With Hub	Rim Only
36	E40SK36	SK	6.020	5.737	B	2 3/8	2 1/2	2 1/2	3 1/4	15/32	1 1/4	0.275	1.407	8.16	6.16
42	E40SK42	SK	6.970	6.691	B	2 3/8	2 1/2	2 1/2	3 1/4	15/32	1 1/4	0.275	1.407	11.92	9.52
48	E40SK48	SK	7.930	7.645	B	2 3/8	2 1/2	2 1/2	3 1/4	15/32	1 1/4	0.275	1.407	15.13	13.16
52	E40SK52	SK	8.570	8.281	B	2 3/8	2 1/2	2 1/2	3 1/4	15/32	1 1/4	0.275	1.407	18.08	16.08
60	E40SK60	SK	9.840	9.554	B	2 3/8	2 1/2	2 1/2	3 1/4	15/32	1 1/4	0.275	1.407	24.60	22.60
68	E40SF68	SF	11.120	10.826	B	2 7/16	2 1/2	2 1/2	4	19/32	1 1/4	0.275	1.407	31.98	29.98
72	E40SF72	SF	11.750	11.463	B	2 7/16	2 1/2	2 1/2	4	19/32	1 1/4	0.275	1.407	37.40	34.40
76	E40SF76	SF	12.390	12.099	B	2 7/16	2 1/2	2 1/2	4	19/32	1 1/4	0.275	1.407	51.92	48.92
84	E40SF84	SF	13.660	13.372	B	2 7/16	2 1/2	2 1/2	4	19/32	1 1/4	0.275	1.407	56.70	53.78
95	E40SF95	SF	15.410	15.122	B	2 7/16	2 1/2	2 1/2	4	19/32	1 1/4	0.275	1.407	58.94	55.94
102	E40SF102	SF	16.530	16.236	B	2 7/16	2 1/2	2 1/2	4	19/32	1 1/4	0.275	1.407	62.24	59.24

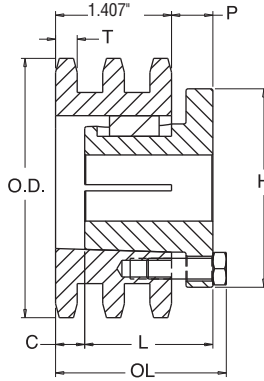
No. 40-3

1/2" Pitch

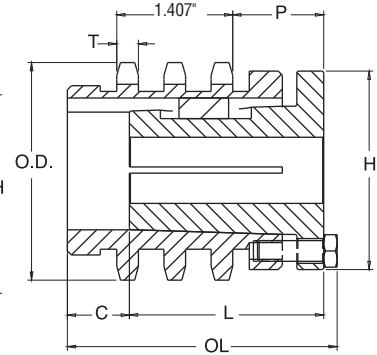
MST® Sprocket



TYPE 22



TYPE 23



TYPE 27

Triple - MST® Sprockets

No. Teeth	Catalog Number	Bush-ing	Diameters		Type	Max. Bore	Dimensions						Weight Lbs. (Approx.)	
			Outside Dia.	Pitch Dia.			OL	L	C	H	P	T(nom)	With Hub	Rim Only
18	E40P18H	P1	3.140	2.879	27	1-3/4	3-3/4	1-15/16	1 9/16	3	1-3/8	0.275	3.2	1.9
19	E40P19H	P1	3.300	3.038	22	1-3/4	3-1/32	1-15/16	27/32	3	1-3/8	0.275	3.1	1.8
20	E40P20H	P1	3.460	3.196	22	1-3/4	2-31/32	1-15/16	25/32	3	1-5/16	0.275	3.3	2.0
23	E40P23H	P1	3.940	3.672	23	1-3/4	2-9/32	1-15/16	3/32	3	5/8	0.275	3.6	2.3
24	E40P24H	P1	4.100	3.831	23	1-3/4	2-9/32	1-15/16	3/32	3	5/8	0.275	3.9	2.6
25	E40P25H	P1	4.260	3.989	23	1-3/4	2-9/32	1-15/16	3/32	3	5/8	0.275	4.3	3.0
27	E40P27H	P1	4.580	4.307	23	1-3/4	2-9/32	1-15/16	3/32	3	5/8	0.275	4.6	3.3
30	E40Q30H	Q1	5.060	4.783	22	2-11/16	2-25/32	2-1/2	0	4-1/8	1-3/32	0.275	8.0	4.5
35	E40Q35H	Q1	5.860	5.578	22	2-11/16	2-25/32	2-1/2	0	4-1/8	1-3/32	0.275	10.4	6.9
36	E40Q36H	Q1	6.020	5.737	22	2-11/16	2-25/32	2-1/2	0	4-1/8	1-3/32	0.275	11.1	7.6
42	E40Q42H	Q1	6.970	6.691	22	2-11/16	2-25/32	2-1/2	0	4-1/8	1-3/32	0.275	14.6	11.1
48	E40Q48H	Q1	7.930	7.645	22	2-11/16	2-25/32	2-1/2	0	4-1/8	1-3/32	0.275	18.7	15.2
52	E40Q52H	Q1	8.570	8.281	22	2-11/16	2-25/32	2-1/2	0	4-1/8	1-3/32	0.275	22.2	18.7
54	E40Q54H	Q1	8.890	8.599	22	2-11/16	2-25/32	2-1/2	0	4-1/8	1-3/32	0.275	23.4	19.9
60	E40Q60H	Q1	9.840	9.554	22	2-11/16	2-25/32	2-1/2	0	4-1/8	1-3/32	0.275	28.8	25.3
68	E40Q68	Q1	11.120	10.826	22	2-11/16	2-25/32	2-1/2	0	4-1/8	1-3/32	0.275	37.0	33.5
72	E40Q72	Q1	11.750	11.463	22	2-11/16	2-25/32	2-1/2	0	4-1/8	1-3/32	0.275	41.4	37.9
76	E40Q76	Q1	12.390	12.099	22	2-11/16	2-25/32	2-1/2	0	4-1/8	1-3/32	0.275	46.0	42.5
84	E40Q84	Q1	13.660	13.372	22	2-11/16	2-25/32	2-1/2	0	4-1/8	1-3/32	0.275	55.9	52.4
95	E40Q95	Q1	15.410	15.122	22	2-11/16	2-25/32	2-1/2	0	4-1/8	1-3/32	0.275	71.4	67.9
102	E40Q102	Q1	16.530	16.236	22	2-11/16	2-25/32	2-1/2	0	4-1/8	1-3/32	0.275	82.0	78.5

Sprockets with "H" suffix have hardened teeth.

No. 50

5/8" Pitch

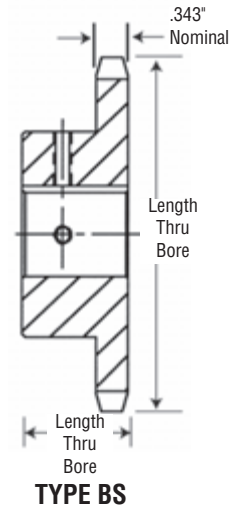
MST® Sprocket



No. 50 — Hardened Teeth — 2 Setscrews — Bored-To-Size

No. Teeth	Catalog Number	Outside Diameter	Length Thru Bore	Weight Lbs. (Approx.)	Stock Finished Bores Includes Keyway and 2 Setscrews
9	50BS9HT	2.09	1	0.3	$\frac{5}{8} - \frac{3}{4}$
10	50BS10HT	2.30	1	0.3	$\frac{5}{8} - \frac{3}{4} - \frac{7}{8} - \dagger 1$
11	50BS11HT	2.50	1	0.6	$\frac{5}{8} - \frac{3}{4} - \frac{7}{8} - 1$
12	50BS12HT	2.71	1	0.7	$\frac{5}{8} - \frac{3}{4} - \frac{7}{8} - 1 - 1\frac{1}{2} - 1\frac{3}{8} - 1\frac{1}{4}$
13	50BS13HT	2.91	1	0.8	$\frac{5}{8} - \frac{3}{4} - \frac{7}{8} - 1 - 1\frac{1}{2} - 1\frac{3}{8} - 1\frac{1}{4}$
14	50BS14HT	3.11	1	1.0	$\frac{5}{8} - \frac{3}{4} - \frac{7}{8} - 1 - 1\frac{1}{2} - 1\frac{3}{8} - 1\frac{1}{4}$
15	50BS15HT	3.32	1	1.2	$\frac{5}{8} - \frac{3}{4} - \frac{7}{8} - 1 - 1\frac{1}{2} - 1\frac{3}{8} - 1\frac{1}{4} - 1\frac{1}{2} - 1\frac{1}{8} - 1\frac{1}{2}$
16	50BS16HT	3.52	1	1.5	$\frac{5}{8} - \frac{3}{4} - \frac{7}{8} - 1 - 1\frac{1}{2} - 1\frac{3}{8} - 1\frac{1}{4} - 1\frac{1}{2} - 1\frac{1}{8} - 1\frac{1}{2} - 1\frac{1}{8}$
17	50BS17HT	3.72	1	1.7	$\frac{5}{8} - \frac{3}{4} - \frac{7}{8} - 1 - 1\frac{1}{2} - 1\frac{3}{8} - 1\frac{1}{4} - 1\frac{1}{2} - 1\frac{1}{8} - 1\frac{1}{2} - 1\frac{1}{8}$
18	50BS18HT	3.92	1	2.0	$\frac{5}{8} - \frac{3}{4} - \frac{7}{8} - 1 - 1\frac{1}{2} - 1\frac{3}{8} - 1\frac{1}{4} - 1\frac{1}{2} - 1\frac{1}{8} - 1\frac{1}{2} - 1\frac{1}{8}$
19	50BS19HT	4.12	1	2.2	$\frac{5}{8} - \frac{3}{4} - \frac{7}{8} - 1 - 1\frac{1}{2} - 1\frac{3}{8} - 1\frac{1}{4} - 1\frac{1}{2} - 1\frac{1}{8} - 1\frac{1}{2} - 1\frac{1}{8}$
20	50BS20HT	4.32	1	2.5	$\frac{5}{8} - \frac{3}{4} - \frac{7}{8} - 1 - 1\frac{1}{2} - 1\frac{3}{8} - 1\frac{1}{4} - 1\frac{1}{2} - 1\frac{1}{8} - 1\frac{1}{2} - 1\frac{1}{8}$
21	50BS21HT	4.52	1	2.6	$\frac{5}{8} - \frac{3}{4} - 1 - 1\frac{1}{2} - 1\frac{3}{8} - 1\frac{1}{4} - 1\frac{1}{2} - 1\frac{1}{8} - 1\frac{1}{2}$
22	50BS22HT	4.72	1	2.8	$\frac{5}{8} - \frac{3}{4} - 1 - 1\frac{1}{2} - 1\frac{3}{8} - 1\frac{1}{4} - 1\frac{1}{2} - 1\frac{1}{8} - 1\frac{1}{2}$
23	50BS23HT	4.92	1	3.2	$\frac{5}{8} - \frac{3}{4} - 1 - 1\frac{1}{2} - 1\frac{3}{8} - 1\frac{1}{4} - 1\frac{1}{2} - 1\frac{1}{8} - 1\frac{1}{2}$
24	50BS24HT	5.12	1 1/4	4.0	$\frac{5}{8} - \frac{3}{4} - 1 - 1\frac{1}{2} - 1\frac{3}{8} - 1\frac{1}{4} - 1\frac{1}{2} - 1\frac{1}{8} - 1\frac{1}{2}$

† Setscrews at 90° and 180° to key.
NOTE: KEYWAY IS ON CENTER LINE OF TOOTH.

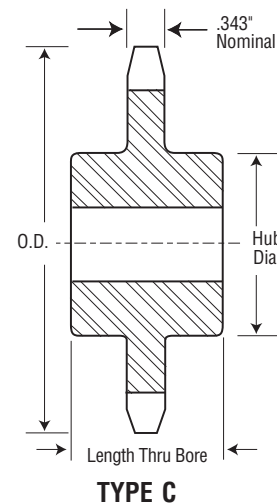


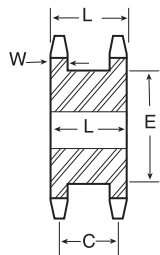
stock hardened teeth sprockets afford longer chain and sprocket life. Hardened teeth on the smaller sprocket of a roller chain drive are recommended if the drive ratio is four to one or greater or if the smaller sprocket has 24 teeth or less and is running at a speed of over 600 R.P.M.

Single - Type C — Steel

No. Teeth	Catalog Number	Outside Diameter	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)
			Stock	Rec. Max.	Diameter	Length	
12	50C12	2.710	$\frac{5}{8}$	1 1/4	2*	1 1/8	1.25
13	50C13	2.910	$\frac{5}{8}$	1 1/8	1 1/8	1 1/8	1.47
14	50C14	3.110	$\frac{5}{8}$	1 1/8	2 1/8	1 1/8	1.69
15	50C15	3.320	$\frac{5}{8}$	1 1/8	2 1/8	1 1/8	1.94
16	50C16	3.520	$\frac{5}{8}$	1 1/8	2 1/2	1 1/8	2.42
17	50C17	3.720	$\frac{5}{8}$	1 1/8	2 3/4	1 1/8	2.75
18	50C18	3.920	$\frac{5}{8}$	1 1/8	2 3/4	1 1/8	3.25
19	50C19	4.120	$\frac{5}{8}$	2	3 1/4	1 1/8	3.87
20	50C20	4.320	$\frac{5}{8}$	2	3	1 1/8	4.40

* Has recessed groove in hub for chain clearance.

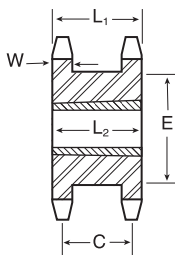




TYPE A

Double Single - Type A — Steel

No. Teeth	Catalog Number	Diameters		Type	Min. Bore	Max. Bore	Dimensions				Wt. Lbs. (Approx.)
		Outside Diameter	Pitch Diameter				L	C	E	w Nom.	
15	DS50A15	3.320	3.006	A	5/8	1 1/2	1 3/32	1 1/16	2 3/8	0.343	2.1
16	DS50A16	3.520	3.204	A	5/8	1 1/16	1 3/32	1 1/16	2 3/16	0.343	2.4
17	DS50A17	3.720	3.401	A	5/8	1 1/8	1 3/32	1 1/16	2 1/16	0.343	2.9
18	DS50A18	3.920	3.599	A	5/8	1 1/8	1 3/32	1 1/16	2 3/16	0.343	3.3
19	DS50A19	4.120	3.797	A	5/8	2 1/16	1 3/32	1 1/16	3 3/4	0.343	3.7
20	DS50A20	4.320	3.995	A	5/8	2 1/4	1 3/32	1 1/16	3 3/2	0.343	4.2
21	DS50A21	4.520	4.194	A	5/8	2 1/4	1 3/32	1 1/16	3 3/4	0.343	4.8
22	DS50A22	4.720	4.392	A	5/8	2 1/2	1 3/32	1 1/16	3 1/16	0.343	5.3
23	DS50A23	4.920	4.590	A	5/8	2 5/8	1 3/32	1 1/16	3 5/16	0.343	5.8
24	DS50A24	5.120	4.788	A	5/8	2 3/4	1 3/32	1 1/16	4 1/4	0.343	6.3

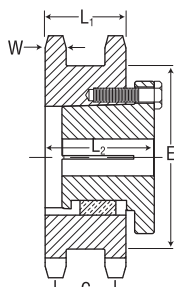


**TAPER BUSH
TYPE A**

Double Single - Taper Bushed — Steel

No. Teeth	Catalog Number	Bushing Size	Diameters		Min. Bore	Max. Bore	Type	Dimensions					Wt. Rim Only
			Outside Diameter	Pitch Diameter				L ₁	C	E	L ₂	w Nom.	
16	DS50ATB16H	1215	3.520	3.204	5/8	1 1/8	A	1 3/32	1 1/16	2 3/16	1 1/2	0.343	1.5
17	DS50ATB17H	1615	3.720	3.401	5/8	1 1/8	A	1 3/32	1 1/16	2 1/16	1 1/2	0.343	1.8
18	DS50ATB18H	1615	3.920	3.599	5/8	1 1/8	A	1 3/32	1 1/16	2 3/16	1 1/2	0.343	2.2
19	DS50ATB19H	1615	4.120	3.797	5/8	1 1/8	A	1 3/32	1 1/16	3 3/4	1 1/2	0.343	2.7
20	DS50ATB20H	1615	4.320	3.995	5/8	1 1/8	A	1 3/32	1 1/16	3 3/2	1 1/2	0.343	5.0
21	DS50ATB21H	2012	4.520	4.194	5/8	2	A	1 3/32	1 1/16	3 3/4	1 1/4	0.343	3.3
23	DS50ATB23H	2012	4.920	4.590	5/8	2	A	1 3/32	1 1/16	3 5/16	1 1/4	0.343	3.7
24	DS50ATB24H	2012	5.120	4.788	5/8	2	A	1 3/32	1 1/16	4 1/4	1 1/4	0.343	4.1

Sprockets with "H" suffix have hardened teeth.



**MST
TYPE B**

Double Single- MST® — Steel

No. Teeth	Catalog Number	Bushing Size	Diameters		Min. Bore	Max. Bore	Type	Dimensions					Wt. Rim Only
			Outside Diameter	Pitch Diameter				L ₁	C	E	L ₂	w Nom.	
17	DS50H17H	H	3.720	3.401	5/8	1 1/2	BH	1 3/32	1 1/16	2 1/16	2 3/2	0.343	2.3
19	DS50P19H	P1	4.120	3.797	5/8	1 3/4	B	1 3/32	1 1/16	3 3/4	2 1/2	0.343	2.8
21	DS50P21H	P1	4.520	4.194	5/8	1 3/4	B	1 3/32	1 1/16	3 3/4	2 1/2	0.343	3.8
23	DS50P23H	P1	4.920	4.590	5/8	1 3/4	B	1 3/32	1 1/16	3 5/16	2 1/2	0.343	4.6
24	DS50P24H	P1	5.120	4.788	5/8	1 3/4	B	1 3/32	1 1/16	4 1/4	2 1/2	0.343	5.0

Sprockets with "H" suffix have hardened teeth.

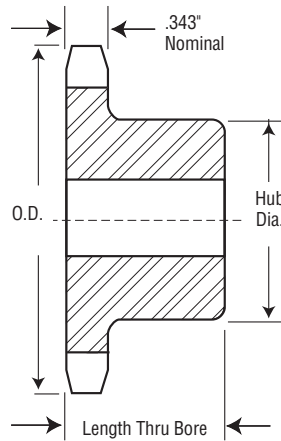
No. 50

5/8" Pitch

Stainless Steel Stock Sprockets



STAINLESS STEEL



TYPE B

Alteration Charges

See current discount sheet for alteration charges.

Single - Type B — Stainless

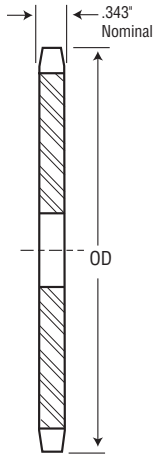
Single - Type A

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)	Type	Catalog Number	Stock Bore	Lbs. (Approx.)
				Stock	Rec. Max.	Diameter	Length Thru					
8	50B8SS	1.884	B	5/8	5/8	1 1/8	1	0.25				
9	50B9SS	2.093	B	5/8	3/4	1 3/8	1	0.36				
10	50B10SS	2.300	B	5/8	7/8	1 5/8★	1	0.50				
11	50B11SS	2.500	B	5/8	1	1 7/8★	1	0.60				
12	50B12SS	2.710	B	5/8	1 1/4	2 1/8★	1	0.70				
13	50B13SS	2.910	B	5/8	1 5/16	2 1/8	1	0.80	A	50A13SS	5/8	0.42
14	50B14SS	3.110	B	5/8	1 1/2	2 1/8	1	1.00	A	50A14SS	5/8	0.50
15	50B15SS	3.320	B	5/8	1 1/2	2 3/8	1	1.30	A	50A15SS	5/8	0.54
16	50B16SS	3.520	B	5/8	1 3/4	2 1/2	1	1.50	A	50A16SS	5/8	0.68
17	50B17SS	3.720	B	5/8	1 7/8	2 7/16	1	1.80	A	50A17SS	5/8	0.76
18	50B18SS	3.920	B	5/8	1 7/8	2 7/8	1	2.00	A	50A18SS	5/8	0.86
19	50B19SS	4.120	B	5/8	1 3/4	2 1/2	1	2.23	A	50A19SS	5/8	0.94
20	50B20SS	4.320	B	3/4	1 3/4	3	1	2.30	A	50A20SS	3/4	1.06
21	50B21SS	4.520	B	3/4	2	3	1	2.42	A	50A21SS	3/4	1.40
22	50B22SS	4.720	B	3/4	2	3	1	2.54	A	50A22SS	3/4	1.60
23	50B23SS	4.920	B	3/4	2	3	1	2.67	A	50A23SS	3/4	1.70
24	50B24SS	5.120	B	3/4	2	3	1 1/4	3.38	A	50A24SS	3/4	1.80
25	50B25SS	5.320	B	3/4	2	3	1 1/4	3.42	A	50A25SS	3/4	1.90
26	50B26SS	5.520	B	3/4	2	3	1 1/4	3.57	A	50A26SS	3/4	1.70
28	50B28SS	5.920	B	3/4	2	3	1 1/4	3.88	A	50A28SS	3/4	2.50
30	50B30SS	6.320	B	3/4	2 1/4	3 1/4	1 1/4	4.54	A	50A30SS	3/4	2.70
32	50B32SS	6.721	B	3/4	2 1/4	3 1/4	1 1/4	4.96	A	50A32SS	3/4	2.72
35	50B35SS	7.320	B	3/4	2 1/4	3 3/4	1 1/4	5.44	A	50A35SS	3/4	3.70
36	50B36SS	7.519	B	3/4	2 1/4	3 3/4	1 1/4	5.64	A	50A36SS	3/4	3.82
40	50B40SS	8.320	B	3/4	2 1/4	3 3/4	1 1/4	6.50	A	50A40SS	3/4	4.70
45	50B45SS	9.310	B	3/4	2 1/2	3 3/4	1 1/4	8.50	A	50A45SS	3/4	6.00
48	50B48SS	9.911	B	1	2 1/2	3 3/4	1 1/4	9.28	A	50A48SS	1 1/4	6.58
54	50B54SS	11.106	B	1	2 1/2	3 3/4	1 1/4	11.00	A	50A54SS	1 1/4	8.30
60	50B60SS	12.300	B	1	2 1/2	3 3/4	1 1/4	14.00	A	50A60SS	1 1/4	10.80

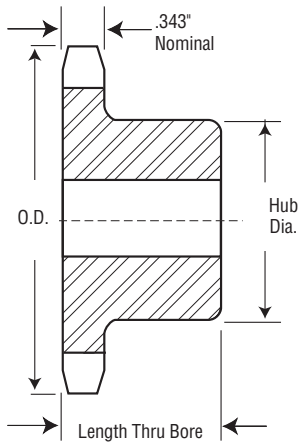
★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

Sprockets altered at factory (rebored with keyway and setscrew added) will be supplied with stainless setscrew.



TYPE A



TYPE B

Single - Type B

Single - Type A

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs (Approx.)	Type	Catalog Number	Stock Bore	Weight Lbs. (Approx.)
				Stock	Rec. Max.	Diameter	Length Thru					
8	50B8	1.880	B	3/8	3/8	1 1/8*	1	0.25				
9	50B9	2.090	B	3/8	3/8	1 1/8*	1	0.36				
10	50B10	2.300	B	3/8	3/8	1 1/8*	1	0.48				
11	50B11	2.500	B	3/8	1	1 1/8*	1	0.64				
12	50B12	2.710	B	3/8	1 1/4	1 5/8*	1	0.83	A	50A12	5/8	0.34
13	50B13	2.910	B	3/8	1 1/2	1 3/4	1	0.88	A	50A13	5/8	0.42
14	50B14	3.110	B	3/8	1 5/8	2 1/8	1	1.13	A	50A14	5/8	0.50
15	50B15	3.320	B	3/8	1 3/4	2 1/8	1	1.34	A	50A15	5/8	0.54
16	50B16	3.520	B	3/8	1 7/8	2 1/8	1	1.51	A	50A16	5/8	0.68
17	50B17	3.720	B	3/8	1 7/8	2 1/8	1	1.74	A	50A17	5/8	0.76
18	50B18	3.920	B	3/8	1 7/8	2 3/8	1	2.00	A	50A18	5/8	0.86
19	50B19	4.120	B	3/8	2	3	1	2.22	A	50A19	5/8	0.94
20	50B20	4.320	B	3/8	2	3	1	2.28	A	50A20	3/4	1.06
21	50B21	4.520	B	3/8	2	3	1	2.40	A	50A21	3/4	1.12
22	50B22	4.720	B	3/8	2	3	1	2.56	A	50A22	3/4	1.30
23	50B23	4.920	B	3/8	2	3	1	2.66	A	50A23	3/4	1.44
24	50B24	5.120	B	3/8	2	3	1 1/4	3.30	A	50A24	23/32	1.50
25	50B25	5.320	B	3/8	2	3	1 1/4	3.40	A	50A25	23/32	1.62
26	50B26	5.520	B	3/8	2	3	1 1/4	3.44	A	50A26	23/32	1.72
27	50B27	5.720	B	3/8	2	3	1 1/4	3.74	A	50A27	23/32	1.96
28	50B28	5.920	B	3/8	2	3	1 1/4	3.80	A	50A28	23/32	2.04
29	50B29	6.120	B	3/8	2	3	1 1/4	4.06	A	50A29	23/32	2.36
30	50B30	6.320	B	3/8	2 1/4	3 1/4	1 1/4	4.56	A	50A30	23/32	2.54
31	50B31	6.520	B	3/8	2 1/4	3 1/4	1 1/4	4.74	A	50A31	23/32	2.80
32	50B32	6.720	B	3/8	2 1/4	3 1/4	1 1/4	4.96	A	50A32	23/32	2.72
33	50B33	6.920	B	3/8	2 1/4	3 1/4	1 1/4	5.20	A	50A33	23/32	3.14
34	50B34	7.120	B	3/8	2 1/4	3 1/4	1 1/4	5.14	A	50A34	23/32	3.20
35	50B35	7.320	B	3/8	2 1/4	3 1/4	1 1/4	5.44	A	50A35	23/32	3.34
36	50B36	7.520	B	3/8	2 1/4	3 1/4	1 1/4	5.64	A	50A36	23/32	3.82
37	50B37	7.720	B	3/8	2 1/4	3 1/4	1 1/4	5.90	A	50A37	23/32	3.98
38	50B38	7.920	B	3/8	2 1/4	3 1/4	1 1/4	6.08	A	50A38	23/32	4.14
39	50B39	8.120	B	3/8	2 1/4	3 1/4	1 1/4	6.30	A	50A39	23/32	4.42
40	50B40	8.320	B	3/8	2 1/4	3 1/4	1 1/4	6.50	A	50A40	23/32	4.46
41	50B41	8.520	B	3/8	2 1/4	3 1/4	1 1/4	6.64	A	50A41	23/32	4.86
42	50B42	8.720	B	3/8	2 1/4	3 1/4	1 1/4	6.96	A	50A42	23/32	4.98
43	50B43	8.910	B	3/8	2 1/4	3 1/4	1 1/4	7.06	A	50A43	23/32	5.24
44	50B44	9.110	B	3/8	2 1/4	3 1/4	1 1/4	7.58	A	50A44	23/32	5.42
45	50B45	9.310	B	3/8	2 1/4	3 1/4	1 1/4	8.58	A	50A45	23/32	5.92
46	50B46	9.510	B	1	2 1/2	3 1/4	1 1/4	8.22	A	50A46	15/16	6.42
47	50B47	9.710	B	1	2 1/2	3 1/4	1 1/4	8.48	A	50A47	15/16	6.50
48	50B48	9.910	B	1	2 1/2	3 1/4	1 1/4	9.28	A	50A48	15/16	6.58
49	50B49	10.110	B	1	2 1/2	3 1/4	1 1/4	9.22	A	50A49	15/16	7.06
50	50B50	10.310	B	1	2 1/2	3 1/4	1 1/4	9.88	A	50A50	15/16	7.10
51	50B51	10.510	B	1	2 1/2	3 1/4	1 1/4	9.70	A	50A51	15/16	7.32
52	50B52	10.710	B	1	2 1/2	3 1/4	1 1/4	10.24	A	50A52	15/16	7.98
53	50B53	10.910	B	1	2 1/2	3 1/4	1 1/4	10.48	A	50A53	15/16	8.08
54	50B54	11.110	B	1	2 1/2	3 1/4	1 1/4	11.00	A	50A54	15/16	8.30
55	50B55	11.310	B	1	2 1/2	3 1/4	1 1/4	10.93	A	50A55	15/16	8.56
56	50B56	11.500	B	1	2 1/2	3 1/4	1 1/4	11.50	A	50A56	15/16	8.90
57	50B57	11.700	B	1	2 1/2	3 1/4	1 1/4	12.00	A	50A57	15/16	9.38
58	50B58	11.900	B	1	2 1/2	3 1/4	1 1/4	11.82	A	50A58	15/16	10.30
59	50B59	12.100	B	1	2 1/2	3 1/4	1 1/4	12.32	A	50A59	15/16	10.50
60	50B60	12.300	B	1	2 1/2	3 1/4	1 1/4	13.00	A	50A60	15/16	10.80
70	50B70	14.290	B	1	2 1/2	3 1/4	1 1/4	18.16	A	50A70	15/16	14.00
72	50B72	14.690	B	1	2 1/2	3 1/4	1 1/4	19.48	A	50A72	15/16	15.24
76	50B76	15.486	B	1	2 1/2	3 1/4	1 1/4	21.00	A	50A76	15/16	20.08
80	50B80	16.280	B	1	2 1/2	4 1/4	1 1/4	24.74	A	50A80	15/16	21.00
84	50B84	17.080	B	1	2 1/2	4 1/4	1 1/4	25.50	A	50A84	15/16	22.08
95	50B95	19.270	B	1	2 1/2	4 1/4	1 1/4	32.00	A	50A95	15/16	27.00
96	50B96	19.470	B	1	2 1/2	4 1/4	1 1/4	32.92	A	50A96	15/16	27.40
112	50B112	22.650	B	1	2 1/2	4 1/4	1 1/4	42.00	A	50A112	15/16	37.70

Alteration Charges

See current discount sheet for alteration charges.

★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

No. 50

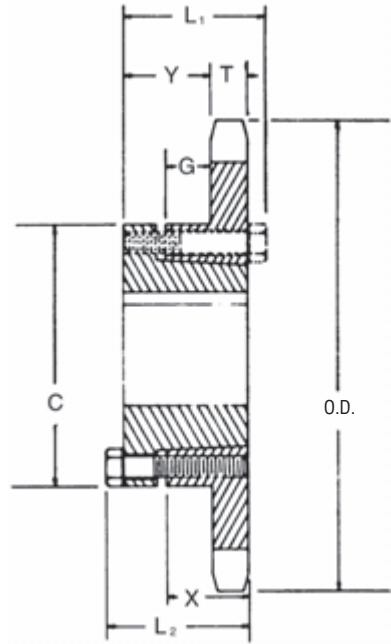
5/8" Pitch

All Steel Stock Sprockets

Single - Type QD With Hardened Teeth

No. Teeth	Catalog Number
12	50JA12H
13	50JA13H
14	50JA14H
15	50JA15H
16	50JA16H
17	50SH17H
18	50SH18H
19	50SH19H
20	50SDS20H
21	50SDS21H
22	50SDS22H
23	50SDS23H
24	50SDS24H
25	50SDS25H
26	50SDS26H
27	50SDS27H
28	50SDS28H
30	50SDS30H

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QD — TYPE B

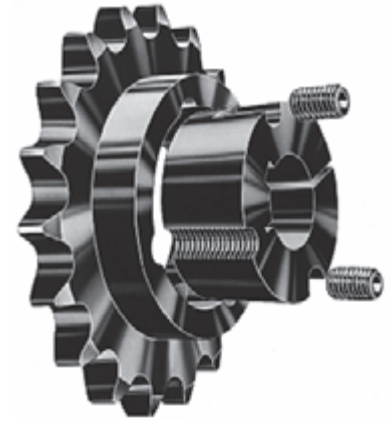
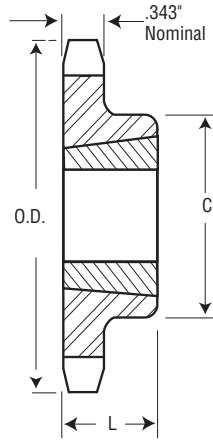
Single - Type QD

No. Teeth	Catalog Number	Bush- ing	Diameters		Type	Max. Bore	Dimensions						Weight (Approx.)		
			Outside Diameter	Pitch Diameter			L ₁	L ₂	C	Y	G	X	T	With Hub	Rim Only
12	50JA12	JA	2.710	2.415	B	1 1/4	1 1/8	1 1/8	2 1/16	2 1/32	5/32	5/8	0.343	1.24	0.34
13	50JA13	JA	2.910	2.612	B	1 1/4	1 1/8	1 1/8	2 1/16	2 1/32	5/32	5/8	0.343	1.30	0.40
14	50JA14	JA	3.110	2.803	B	1 1/4	1 1/8	1 1/8	2 1/16	2 1/32	5/32	5/8	0.343	1.45	0.52
15	50JA15	JA	3.320	3.006	B	1 1/4	1 1/8	1 1/8	2 1/16	2 1/32	5/32	5/8	0.343	1.50	0.60
16	50JA16	JA	3.520	3.204	B	1 1/4	1 1/8	1 1/8	2 1/16	2 1/32	5/32	5/8	0.343	1.58	0.68
17	50SH17	SH	3.720	3.401	B	1 1/2	1 1/16	1 1/16	2 1/16	2 1/32	15/32	13/16	0.343	1.84	0.84
18	50SH18	SH	3.920	3.599	B	1 1/2	1 1/16	1 1/16	2 1/16	2 1/32	15/32	13/16	0.343	2.04	1.04
19	50SH19	SH	4.120	3.797	B	1 1/2	1 1/16	1 1/16	2 1/16	2 1/32	15/32	13/16	0.343	2.24	1.24
20	50SDS20	SDS	4.320	3.995	B	2	1 1/2	1 1/2	3 1/16	3 1/32	13/32	3/4	0.343	2.20	1.20
21	50SDS21	SDS	4.520	4.194	B	2	1 1/2	1 1/2	3 1/16	3 1/32	13/32	3/4	0.343	2.32	1.32
22	50SDS22	SDS	4.720	4.392	B	2	1 1/2	1 1/2	3 1/16	3 1/32	13/32	3/4	0.343	2.48	1.42
23	50SDS23	SDS	4.920	4.590	B	2	1 1/2	1 1/2	3 1/16	3 1/32	13/32	3/4	0.343	2.58	1.58
24	50SDS24	SDS	5.120	4.788	B	2	1 1/2	1 1/2	3 1/16	3 1/32	13/32	3/4	0.343	2.70	1.70
25	50SDS25	SDS	5.320	4.987	B	2	1 1/2	1 1/2	3 1/16	3 1/32	13/32	3/4	0.343	2.86	1.86
26	50SDS26	SDS	5.520	5.185	B	2	1 1/2	1 1/2	3 1/16	3 1/32	13/32	3/4	0.343	3.00	2.00
27	50SDS27	SDS	5.720	5.384	B	2	1 1/2	1 1/2	3 1/16	3 1/32	13/32	3/4	0.343	3.12	2.12
28	50SDS28	SDS	5.920	5.582	B	2	1 1/2	1 1/2	3 1/16	3 1/32	13/32	3/4	0.343	3.32	2.32
30	50SDS30	SDS	6.320	5.979	B	2	1 1/2	1 1/2	3 1/16	3 1/32	13/32	3/4	0.343	3.64	2.64
32	50SDS32	SDS	6.720	6.376	B	2	1 1/2	1 1/2	3 1/16	3 1/32	13/32	3/4	0.343	3.98	2.98
35	50SDS35	SDS	7.320	6.972	B	2	1 1/2	1 1/2	3 1/16	3 1/32	13/32	3/4	0.343	4.62	3.62
36	50SDS36	SDS	7.520	7.171	B	2	1 1/2	1 1/2	3 1/16	3 1/32	13/32	3/4	0.343	4.64	3.64
40	50SDS40	SDS	8.320	7.966	B	2	1 1/2	1 1/2	3 1/16	3 1/32	13/32	3/4	0.343	5.74	4.74
42	50SDS42	SDS	8.720	8.363	B	2	1 1/2	1 1/2	3 1/16	3 1/32	13/32	3/4	0.343	6.40	5.40
45	50SDS45	SDS	9.310	8.960	B	2	1 1/2	1 1/2	3 1/16	3 1/32	13/32	3/4	0.343	6.90	5.90
48	50SDS48	SDS	9.910	9.556	B	2	1 1/2	1 1/2	3 1/16	3 1/32	13/32	3/4	0.343	7.66	6.66
54	50SK54	SK	11.110	10.749	B	2 1/2	2 1/2	2 1/2	3 1/2	1 1/32	2 1/32	1 1/4	0.343	11.68	9.68
60	50SK60	SK	12.300	11.942	B	2 1/2	2 1/2	2 1/2	3 1/2	1 1/32	2 1/32	1 1/4	0.343	13.88	11.88
70	50SK70	SK	14.290	13.931	B	2 1/2	2 1/2	2 1/2	3 1/2	1 1/32	2 1/32	1 1/4	0.343	17.52	15.52
72	50SK72	SK	14.690	14.329	B	2 1/2	2 1/2	2 1/2	3 1/2	1 1/32	2 1/32	1 1/4	0.343	18.44	16.44
80	50SF80	SF	16.280	15.920	B	2 1/2	2 1/2	2 1/2	4 1/2	1 1/32	2 1/32	1 1/4	0.343	22.90	19.90
84	50SF84	SF	17.080	16.715	B	2 1/2	2 1/2	2 1/2	4 1/2	1 1/32	2 1/32	1 1/4	0.343	25.98	22.98
96	50SF96	SF	19.470	19.102	B	2 1/2	2 1/2	2 1/2	4 1/2	1 1/32	2 1/32	1 1/4	0.343	32.88	29.88
112	50SF112	SF	22.650	22.285	B	2 1/2	2 1/2	2 1/2	4 1/2	1 1/32	2 1/32	1 1/4	0.343	43.10	40.10

Single - Taper Bushed with Hardened Teeth

No. Teeth	Catalog Number
12	50BTB12H
13	50BTB13H
14	50BTB14H
15	50BTB15H
16	50BTB16H
17	50BTB17H
18	50BTB18H
19	50BTB19H
20	50BTB20H
21	50BTB21H
22	50BTB22H
23	50BTB23H
24	50BTB24H
25	50BTB25H
26	50BTB26H
27	50BTB27H
28	50BTB28H
30	50BTB30H

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TYPE B

Single - Taper Bushed

No. Teeth	Catalog Number	Bushing	Diameter		Max. Bore	Dimensions		Type	Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter		L	C		Rim Only	Bushing Only
12	50BTB12	1008	2.708	2.415	1	3/8	1 1/16**	B	0.5	0.3
13	50BTB13	1008	2.911	2.612	1	3/8	1 1/16	B	0.5	0.3
14	50BTB14	1008	3.113	2.809	1	3/8	1 1/16	B	0.6	0.3
15	50BTB15	1210	3.315	3.006	1 1/4	1	2 1/2**	B	0.7	0.6
16	50BTB16	1610	3.517	3.204	1 1/2	1	2 3/4**	B	0.7	0.9
17	50BTB17	1610	3.719	3.401	1 1/2	1	2 3/4**	B	0.8	0.9
18	50BTB18	1610	3.920	3.599	1 1/2	1	2 3/4	B	0.9	0.9
19	50BTB19	1610	4.120	3.797	1 1/2	1	3	B	1.3	0.9
20	50BTB20	1610	4.321	3.995	1 1/2	1	3 1/4	B	1.6	0.9
21	50BTB21	1610	4.522	4.193	1 1/2	1	3 1/2	B	1.5	0.9
22	50BTB22	1610	4.722	4.392	1 1/2	1	3 3/4	B	1.6	0.9
23	50BTB23	2012	4.922	4.590	2	1 1/4	3 1/8	B	2.0	1.7
24	50BTB24	2012	5.122	4.788	2	1 1/4	4	B	2.2	1.7
25	50BTB25	2012	5.322	4.987	2	1 1/4	4	B	2.4	1.7
26	50BTB26	2012	5.522	5.185	2	1 1/4	4	B	2.5	1.7
27	50BTB27	2012	5.723	5.384	2	1 1/4	4	B	2.6	1.7
28	50BTB28	2012	5.922	5.582	2	1 1/4	4	B	2.8	1.7
30	50BTB30	2012	6.321	5.979	2	1 1/4	3 3/8	B	3.2	1.7
32	50BTB32	2012	6.721	6.376	2	1 1/4	3 3/8	B	3.6	1.7
35	50BTB35	2012	7.319	6.972	2	1 1/4	3 3/8	B	4.2	1.7
36	50BTB36	2012	7.519	7.171	2	1 1/4	3 3/8	B	4.3	1.7
40	50BTB40	2012	8.316	7.966	2	1 1/4	3 3/8	B	5.2	1.7
42	50BTB42	2012	8.715	8.363	2	1 1/4	3 3/8	B	5.9	1.7
45	50BTB45	2012	9.313	8.960	2	1 1/4	3 3/8	B	6.5	1.7
48	50BTB48	2012	9.911	9.556	2	1 1/4	3 3/8	B	7.3	1.7
54	50BTB54	2012	11.106	10.749	2	1 1/4	3 3/8	B	9.0	1.7
60	50BTB60	2012	12.301	11.942	2	1 1/4	3 3/8	B	10.8	1.7
70	50BTB70	2517	14.292	13.931	2 1/2	1 3/4	4 1/4	B	14.0	3.5
72	50BTB72	2517	14.690	14.329	2 1/2	1 3/4	4 1/4	B	15.5	3.5
80	50BTB80	2517	16.282	15.920	2 1/2	1 3/4	4 1/4	B	19.5	3.5
84	50BTB84	2517	17.079	16.715	2 1/2	1 3/4	4 1/4	B	22.5	3.5
96	50BTB96	2517	19.466	19.102	2 1/2	1 3/4	4 1/4	B	29.0	3.5
112	50BTB112	2517	22.651	22.285	2 1/2	1 3/4	4 1/4	B	38.7	3.5

** Has recessed groove in hub for chain clearance.

No. 50

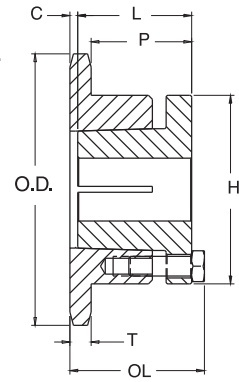
5/8" Pitch

MST® Sprockets

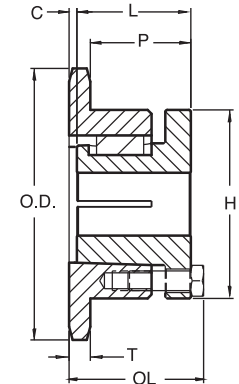


Single - MST® Sprockets

No. Teeth	Catalog Number	Bushing	Diameters		Type	Max. Bore	Dimensions						Weight Lbs. (Approx.)	
			Outside Dia.	Pitch Dia.			OL	L	C	H	P	T(nom)	With Hub	Rim Only
13	50H13H	H	2.910	2.612	3	1-1/2	1 21/32	1 1/4	7/32	2-1/2	1-1/8	0.343	1.4	0.6
14	50H14H	H	3.110	2.809	3	1-1/2	1 19/32	1 1/4	5/32	2-1/2	1-1/16	0.343	1.4	0.6
15	50H15H	H	3.320	3.006	3	1-1/2	1 1/2	1 1/4	1/16	2-1/2	31/32	0.343	1.6	0.8
15	50P15H	P1	3.320	3.006	4	1-3/4	2 3/16	1 15/16	-	3	1-19/32	0.343	2.4	1.1
16	50H16H	H	3.520	3.204	3	1-1/2	1 1/2	1 1/4	1/16	2-1/2	31/32	0.343	1.7	0.9
16	50P16H	P1	3.520	3.204	4	1-3/4	2 3/16	1 15/16	-	3	1-19/32	0.343	2.7	1.4
17	50H17H	H	3.720	3.401	3	1-1/2	1 1/2	1 1/4	1/16	2-1/2	31/32	0.343	1.8	1.0
17	50P17H	P1	3.720	3.401	4	1-3/4	2 3/16	1 15/16	-	3	1-19/32	0.343	2.7	1.4
18	50H18H	H	3.920	3.599	3	1-1/2	1 1/2	1 1/4	1/16	2-1/2	31/32	0.343	1.9	1.1
18	50P18H	P1	3.920	3.599	4	1-3/4	2 3/16	1 15/16	-	3	1-19/32	0.343	3.1	1.8
19	50H19H	H	4.120	3.797	3	1-1/2	1 1/2	1 1/4	1/16	2-1/2	31/32	0.343	2.1	1.3
19	50P19H	P1	4.120	3.797	4	1-3/4	2 3/16	1 15/16	-	3	1-19/32	0.343	3.1	1.8
20	50H20H	H	4.320	3.995	3	1-1/2	1 1/2	1 1/4	1/16	2-1/2	31/32	0.343	2.3	1.5
20	50P20H	P1	4.320	3.995	4	1-3/4	2 3/16	1 15/16	-	3	1-19/32	0.343	3.3	2.0
21	50H21H	H	4.520	4.194	3	1-1/2	1 1/2	1 1/4	1/16	2-1/2	31/32	0.343	2.2	1.4
21	50P21H	P1	4.520	4.194	4	1-3/4	2 3/16	1 15/16	-	3	1-19/32	0.343	3.4	2.1
22	50H22H	H	4.720	4.392	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	31/32	0.343	2.3	1.5
22	50P22H	P1	4.720	4.392	4	1-3/4	2-3/16	1-15/16	-	3	1-19/32	0.343	3.5	2.2
23	50H23H	H	4.920	4.590	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	31/32	0.343	2.5	1.7
23	50P23H	P1	4.920	4.590	4	1-3/4	2-3/16	1-15/16	-	3	1-19/32	0.343	3.7	2.4
23	50Q23H	Q1	4.920	4.590	4	2-11/16	2-25/32	2-1/2	-	4-1/8	2-5/32	0.343	6.7	3.2
24	50H24H	H	5.120	4.788	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	31/32	0.343	2.6	1.8
24	50P24H	P1	5.120	4.788	4	1-3/4	2-3/16	1-15/16	-	3	1-19/32	0.343	3.9	2.6
24	50Q24H	Q1	5.120	4.788	4	2-11/16	2-25/32	2-1/2	-	4-1/8	2-5/32	0.343	7.0	3.5
25	50H25H	H	5.320	4.987	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	31/32	0.343	2.7	1.9
25	50P25H	P1	5.320	4.987	4	1-3/4	2-3/16	1-15/16	-	3	1-19/32	0.343	4.0	2.7
25	50Q25H	Q1	5.320	4.987	4	2-11/16	2-25/32	2-1/2	-	4-1/8	2-5/32	0.343	7.1	3.6
26	50H26H	H	5.520	5.185	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	31/32	0.343	2.8	2.0
26	50P26H	P1	5.520	5.185	4	1-3/4	2-3/16	1-15/16	-	3	1-19/32	0.343	4.1	2.8
26	50Q26H	Q1	5.520	5.185	4	2-11/16	2-25/32	2-1/2	-	4-1/8	2-5/32	0.343	7.2	3.7
27	50H27H	H	5.720	5.384	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	31/32	0.343	3.0	2.2
27	50P27H	P1	5.720	5.384	4	1-3/4	2-3/16	1-15/16	-	3	1-19/32	0.343	4.2	2.9
27	50Q27H	Q1	5.720	5.384	4	2-11/16	2-25/32	2-1/2	-	4-1/8	2-5/32	0.343	7.3	3.8
28	50H28H	H	5.920	5.582	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	31/32	0.343	3.3	2.5
28	50P28H	P1	5.920	5.582	4	1-3/4	2-3/16	1-15/16	-	3	1-19/32	0.343	4.3	3.0
28	50Q28H	Q1	5.920	5.582	4	2-11/16	2-25/32	2-1/2	-	4-1/8	2-5/32	0.343	7.5	4.0
29	50P29H	P1	6.120	5.781	4	1-3/4	2-3/16	1-15/16	-	3	1-19/32	0.343	4.7	3.4
30	50H30H	H	6.320	5.979	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	31/32	0.343	3.7	2.9
30	50P30H	P1	6.320	5.979	4	1-3/4	2-3/16	1-15/16	-	3	1-19/32	0.343	4.9	3.6
30	50Q30H	Q1	6.320	5.979	4	2-11/16	2-25/32	2-1/2	-	4-1/8	2-5/32	0.343	9.1	5.6
31	50P31	P1	6.520	6.178	4	1-3/4	2-3/16	1-15/16	-	3	1-19/32	0.343	4.9	3.6
32	50H32H	H	6.720	6.376	3	1-1/2	1-1/2	1 1/4	1/16	2-1/2	31/32	0.343	4.0	3.2
32	50P32	P1	6.720	6.376	4	1-3/4	2-3/16	1-15/16	-	3	1-19/32	0.343	5.2	3.9
32	50Q32	Q1	6.720	6.376	4	2-11/16	2-25/32	2-1/2	-	4-1/8	2-5/32	0.343	9.6	6.1
33	50H33H	H	6.920	6.575	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	31/32	0.343	4.2	3.4
33	50P33	P1	6.920	6.575	4	1-3/4	2-3/16	1-15/16	-	3	1-19/32	0.343	5.4	4.1
34	50H34H	H	7.120	6.774	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	31/32	0.343	4.5	3.7
34	50P34	P1	7.120	6.774	4	1-3/4	2-3/16	1-15/16	-	3	1-19/32	0.343	5.6	4.3
35	50H35H	H	7.320	6.972	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	31/32	0.343	4.6	3.8
35	50P35	P1	7.320	6.972	4	1-3/4	2-3/16	1-15/16	-	3	1-19/32	0.343	5.6	4.3
35	50Q35	Q1	7.320	6.972	4	2-11/16	2-25/32	2-1/2	-	4-1/8	2-5/32	0.343	10.3	6.8
36	50H36H	H	7.520	7.171	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	31/32	0.343	4.8	4.0
36	50P36	P1	7.520	7.171	4	1-3/4	2-3/16	1-15/16	-	3	1-19/32	0.343	6.1	4.8
36	50Q36	Q1	7.520	7.171	4	2-11/16	2-25/32	2-1/2	-	4-1/8	2-5/32	0.343	10.3	6.8
37	50Q37	Q1	7.720	7.370	4	2-11/16	2-25/32	2-1/2	-	4-1/8	2-5/32	0.343	10.5	7.0
38	50H38H	H	7.920	7.569	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	31/32	0.343	5.2	4.4
38	50Q38	Q1	7.920	7.569	4	2-11/16	2-25/32	2-1/2	-	4-1/8	2-5/32	0.343	10.9	7.4
39	50Q39	Q1	8.120	7.767	4	2-11/16	2-25/32	2-1/2	-	4-1/8	2-5/32	0.343	11.1	7.6
40	50H40H	H	8.320	7.966	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	31/32	0.343	5.6	4.8
40	50Q40	Q1	8.320	7.966	4	2-11/16	2-25/32	2-1/2	-	4-1/8	2-5/32	0.343	11.5	8.0
41	50Q41	Q1	8.520	8.165	4	2-11/16	2-25/32	2-1/2	-	4-1/8	2-5/32	0.343	11.7	8.2
42	50Q42	Q1	8.720	8.363	4	2-11/16	2-25/32	2-1/2	-	4-1/8	2-5/32	0.343	11.8	8.3
44	50Q44	Q1	9.110	8.761	4	2-11/16	2-25/32	2-1/2	-	4-1/8	2-5/32	0.343	12.1	8.6
45	50Q45	Q1	9.310	8.960	4	2-11/16	2-25/32	2-1/2	-	4-1/8	2-5/32	0.343	12.5	9.0
47	50Q47	Q1	9.710	9.357	4	2-11/16	2-25/32	2-1/2	-	4-1/8	2-5/32	0.343	12.8	9.3
48	50Q48	Q1	9.910	9.556	4	2-11/16	2-25/32	2-1/2	-	4-1/8	2-5/32	0.343	13.1	9.6
50	50Q50	Q1	10.310	9.954	4	2-11/16	2-25/32	2-1/2	-	4-1/8	2-5/32	0.343	13.3	9.8
54	50Q54	Q1	11.110	10.749	4	2-11/16	2-25/32	2-1/2	-	4-1/8	2-5/32	0.343	14.8	11.3
56	50Q56	Q1	11.500	11.147	4	2-11/16	2-25/32	2-1/2	-	4-1/8	2-5/32	0.343	15.8	12.3
60	50Q60	Q1	12.300	11.942	4	2-11/16	2-25/32	2-1/2	-	4-1/8	2-5/32	0.343	16.8	13.3
70	50Q70	Q1	14.290	13.931	4	2-11/16	2-25/32	2-1/2	-	4-1/8	2-5/32	0.343	20.4	16.9
72	50Q72	Q1	14.690	14.329	4	2-11/16	2-25/32	2-1/2	-	4-1/8	2-5/32	0.343	21.6	18.1
80	50Q80	Q1	16.280	15.920	4	2-11/16	2-25/32	2-1/2	-	4-1/8	2-5/32	0.343	24.6	21.1
84	50Q84	Q1	17.080	16.715	4	2-11/16	2-25/32	2-1/2	-	4-1/8	2-5/32	0.343	27.8	24.3
96	50Q96	Q1	19.470	19.102	4	2-11/16	2-25/32	2-1/2	-	4-1/8	2-5/32	0.343	33.3	29.8
112	50Q112	Q1	22.650	22.285	4	2-11/16	2-25/32	2-1/2	-	4-1/8	2-5/32	0.343	42.8	39.3

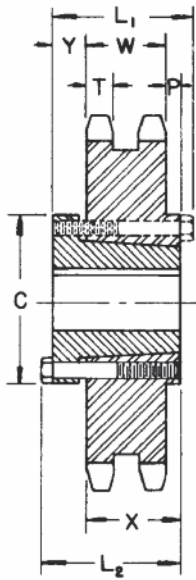


TYPE 3

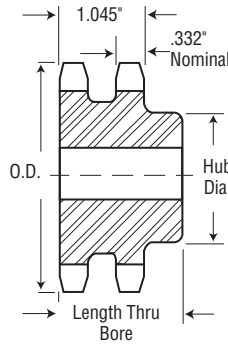


TYPE 4

Double - Type B



QD — TYPE C



TYPE B

Alteration Charges

See current discount sheet for alteration charges.

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)
				Stock	Rec. Max.	Dia.	Length Thru	
11	D50B11H	2.500	B	5/8	15/16	1 1/2	1 1/4	0.96
12	D50B12H	2.710	B	5/8	1 1/8	1 1/2	1 1/4	1.25
13	D50B13H	2.910	B	5/8	1 1/8	1 1/2	1 1/4	1.56
14	D50B14H	3.110	B	5/8	1 1/8	2 1/8	1 1/4	1.86
15	D50B15H	3.320	B	3/4	1 1/2	2 1/8	1 1/4	2.22
16	D50B16H	3.520	B	3/4	1 1/2	2 1/2	1 1/4	2.62
17	D50B17H	3.720	B	3/4	1 1/2	2 1/8	1 1/4	3.04
18	D50B18H	3.920	B	3/4	1 1/2	2 1/2	1 1/4	3.58
19	D50B19H	4.120	B	1	2 1/8	3 1/8	1 1/4	3.90
20	D50B20H	4.320	B	1	2 1/8	3 1/4	1 1/4	4.26
21	D50B21H	4.520	B	1	2 1/8	3 1/2	1 1/4	4.90
22	D50B22H	4.720	B	1	2 1/8	3 3/8	1 1/4	5.58
23	D50B23H	4.920	B	1	2 1/2	3 3/8	1 1/4	6.10
24	D50B24H	5.120	B	1	2 1/2	3 1/2	1 1/4	6.50
25	D50B25H	5.320	B	1	2 1/2	3 3/4	1 1/4	6.94
26	D50B26	5.520	B	1	2 1/2	3 3/4	1 1/4	7.54
30	D50B30	6.320	B	1	2 1/2	3 3/4	1 1/4	9.40
32	D50B32	6.720	B	1	2 1/2	3 3/4	1 1/4	10.46
35	D50B35	7.320	B	1	2 1/2	3 3/4	1 1/4	12.28
36	D50B36	7.520	B	1 1/8	2 3/4	4	2 1/4	13.94
40	D50B40	8.320	B	1 1/8	2 3/4	4	2 1/4	16.54
42	D50B42	8.720	B	1 1/8	2 3/4	4	2 1/4	17.92
45	D50B45	9.310	B	1 1/8	2 3/4	4	2 1/4	20.30
48	D50B48	9.910	B	1 1/8	2 3/4	4 1/4	2 1/4	24.08
52	D50B52	10.710	B	1 1/8	2 3/4	4 1/4	2 1/4	27.42
54	D50B54	11.110	B	1 1/8	2 3/4	4 1/4	2 1/4	29.16
60	D50B60	12.300	B	1 1/8	3	4 1/2	2 1/4	35.88
68	D50B68	13.890	B	1 1/8	3	4 1/2	2 1/4	44.98
72	D50B72	14.690	B	1 1/8	3	4 1/2	2 1/4	50.22
76	D50B76	15.490	B	1 1/8	3	4 1/2	2 1/4	45.64
84	D50B84	17.080	B	1 1/8	3	4 1/2	2 1/4	51.64
95	D50B95	19.270	B	1 1/8	3	4 1/2	2 1/4	64.32
96	D50B96	19.470	B	1 1/8	3	4 1/2	2 1/4	67.42
102	D50B102	20.660	B	1 1/8	3	4 1/2	2 1/4	72.68
112	D50B112	22.650	B	1 1/8	3 3/8	5 1/4	2 1/4	90.22

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

NOTE: Double 50 stock sprockets with 25 teeth or less have hardened teeth, as indicated by H suffix.

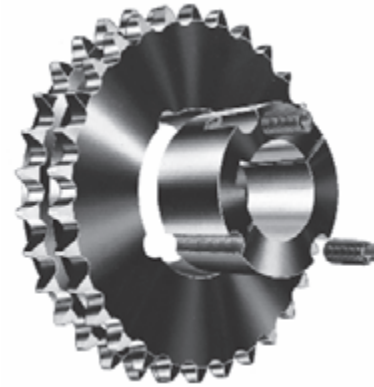
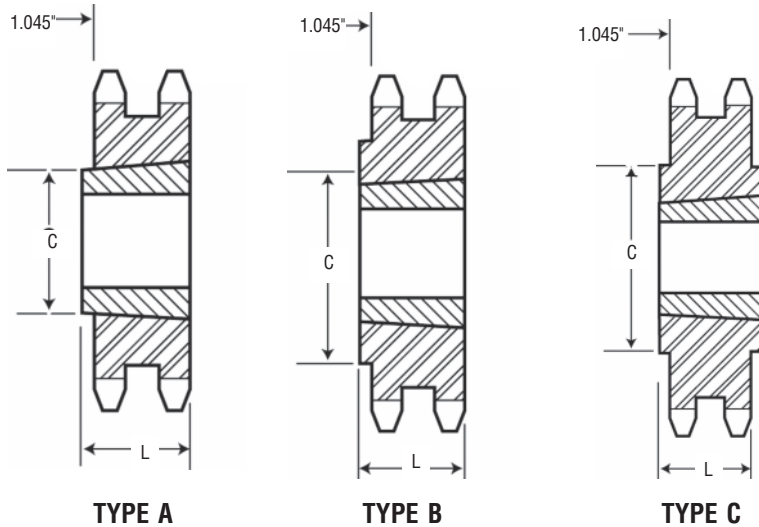
Double - Type QD

No. Teeth	Catalog Number	Bush-ing	Diameters		Type	Max. Bore	Dimensions							Weight Lbs. (Approx.)		
			Outside Diameter	Pitch Diameter			L ₁	L ₂	C	Y	P	X	T	W	With Hub	Rim Only
36	D50SK36	SK	7.520	7.171	C	2 1/8	2 1/2	2 1/2	3 1/8	3/4	1 1/4	1 1/4	0.332	1.045	11.08	9.08
42	D50SK42	SK	8.720	8.363	C	2 1/8	2 1/2	2 1/2	3 1/8	3/4	1 1/4	1 1/4	0.332	1.045	15.16	13.16
48	D50SK48	SK	9.910	9.556	C	2 1/8	2 1/2	2 1/2	3 1/8	3/4	1 1/4	1 1/4	0.332	1.045	19.90	17.90
52	D50SF52	SF	10.710	10.351	C	2 1/8	2 1/4	2 1/4	4 1/8	3/4	1 1/4	1 1/4	0.332	1.045	24.26	21.26
54	D50SF54	SF	11.110	10.749	C	2 1/8	2 1/4	2 1/4	4 1/8	3/4	1 1/4	1 1/4	0.332	1.045	26.18	23.18
60	D50SF60	SF	12.300	11.942	C	2 1/8	2 1/4	2 1/4	4 1/8	3/4	1 1/4	1 1/4	0.332	1.045	32.12	29.12
68	D50SF68	SF	13.890	13.533	C	2 1/8	2 1/4	2 1/4	4 1/8	3/4	1 1/4	1 1/4	0.332	1.045	41.16	38.16
72	D50SF72	SF	14.690	14.329	C	2 1/8	2 1/4	2 1/4	4 1/8	3/4	1 1/4	1 1/4	0.332	1.045	46.28	43.26
76	D50SF76	SF	15.490	15.124	C	2 1/8	2 1/4	2 1/4	4 1/8	3/4	1 1/4	1 1/4	0.332	1.045	47.00	44.00
84	D50SF84	SF	17.080	16.715	C	2 1/8	2 1/4	2 1/4	4 1/8	3/4	1 1/4	1 1/4	0.332	1.045	48.89	45.88
95	D50SF95	SF	19.270	18.903	C	2 1/8	2 1/4	2 1/4	4 1/8	3/4	1 1/4	1 1/4	0.332	1.045	61.80	58.88
102	D50SF102	SF	20.660	20.295	C	2 1/8	2 1/4	2 1/4	4 1/8	3/4	1 1/4	1 1/4	0.332	1.045	69.02	66.02
112	D50SF112	SF	22.650	22.285	C	2 1/8	2 1/4	2 1/4	4 1/8	3/4	1 1/4	1 1/4	0.332	1.045	88.26	85.26

No. 50-2

5/8" Pitch

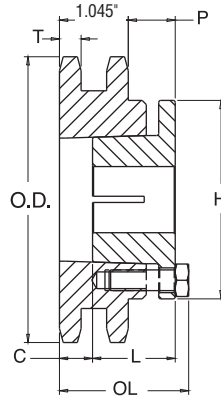
All Steel Stock Sprockets



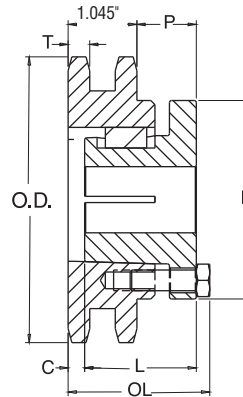
Double - Taper Bushed

No. Teeth	Catalog Number	Bushing	Diameter		Max. Bore	Dimensions		Type	Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter		L	C		Rim Only	Bushing Only
14	D50ATB14H	1008	3.113	2.809	1	3/8	—	A	0.8	0.3
15	D50ATB15H	1210	3.315	3.006	1 1/4	1	—	A	0.9	0.6
16	D50ATB16H	1210	3.517	3.204	1 1/4	1	—	A	1.1	0.6
17	D50ATB17H	1610	3.719	3.410	1 1/2	1	—	A	1.1	0.6
18	D50ATB18H	1610	3.920	3.599	1 1/2	1	—	A	1.3	0.9
19	D50ATB19H	1610	4.120	3.797	1 1/2	1	—	A	1.6	0.9
20	D50BTB20H	2012	4.321	3.995	2	1 1/4	3 3/4	B	1.5	1.7
21	D50BTB21H	2012	4.522	4.193	2	1 1/4	3 1/2	B	1.9	1.7
25	D50BTB25H	2012	5.322	4.987	2	1 1/4	4 1/2	B	3.8	1.7
30	D50BTB30	2517	6.321	5.979	2 1/2	1 1/4	5 3/2	B	7.5	3.5
36	D50CTB36	2517	7.519	7.171	2 1/2	1 1/4	4 1/4	C	9.4	3.5
42	D50CTB42	2517	8.715	8.363	2 1/2	1 1/4	4 1/4	C	13.4	3.5
48	D50CTB48	2517	9.911	9.556	2 1/2	1 1/4	4 1/4	C	18.6	3.5
52	D50CTB52	2517	10.707	10.351	2 1/2	1 1/4	4 1/4	C	22.2	3.5
60	D50CTB60	2517	12.301	11.942	2 1/2	1 1/4	4 1/4	C	30.3	3.5
68	D50CTB68	2517	13.893	13.533	2 1/2	1 1/4	4 1/4	C	39.4	3.5
76	D50CTB76	2517	15.486	15.124	2 1/2	1 1/4	4 1/4	C	41.2	3.5
84	D50CTB84	2517	17.079	16.715	2 1/2	1 1/4	4 1/4	C	45.3	3.5
95	D50CTB95	2517	19.267	18.903	2 1/2	1 1/4	4 1/4	C	58.8	3.5
102	D50CTB102	2517	20.661	20.295	2 1/2	1 1/4	4 1/4	C	67.1	3.5

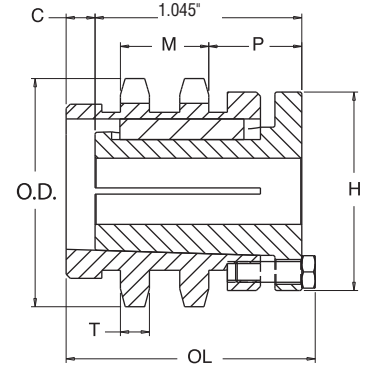
NOTE: Double 50 stock sprockets with 25 teeth or less have hardened teeth, as indicated by H suffix.



TYPE 11



TYPE 12



TYPE 16

Double - MST[®] Sprockets

No. Teeth	Catalog Number	Bush-ing	Diameters		Type	Max. Bore	Dimensions						Weight Lbs. (Approx.)	
			Outside Dia.	Pitch Dia.			OL	L	C	H	P	T(nom)	With Hub	Rim Only
14	D50H14H	H	3.110	2.809	11	1-1/2	2-5/16	1-1/4	7/8	2-1/2	1-3/32	0.332	2.0	1.2
15	D50P15H	P1	3.320	3.006	16	1-3/4	3-7/16	1-15/16	1-1/4	3	1-13/32	0.332	3.3	2.0
16	D50P16H	P1	3.520	3.204	12	1-3/4	2-11/16	1-15/16	1/2	3	1-13/32	0.332	2.9	1.6
17	D50P17H	P1	3.720	3.401	12	1-3/4	2-11/16	1-15/16	1/2	3	1-13/32	0.332	3.4	2.1
18	D50P18H	P1	3.920	3.599	12	1-3/4	2-11/16	1-15/16	1/2	3	1-13/32	0.332	3.8	2.5
19	D50P19H	P1	4.120	3.797	12	1-3/4	2-3/16	1-15/16	-	3	29/32	0.332	3.3	2.0
20	D50P20H	P1	4.320	3.995	12	1-3/4	2-3/16	1-15/16	-	3	29/32	0.332	3.8	2.5
21	D50P21H	P1	4.520	4.194	12	1-3/4	2-3/16	1-15/16	-	3	29/32	0.332	4.1	2.8
22	D50P22H	P1	4.720	4.392	12	1-3/4	2-3/16	1-15/16	-	3	29/32	0.332	4.5	3.2
23	D50P23H	P1	4.920	4.590	12	1-3/4	2-3/16	1-15/16	-	3	29/32	0.332	4.9	3.6
24	D50Q24H	Q1	5.120	4.788	12	2-11/16	2-25/32	2-1/2	-	4-1/8	1-15/32	0.332	7.5	4.0
25	D50Q25H	Q1	5.320	4.987	12	2-11/16	2-25/32	2-1/2	-	4-1/8	1-15/32	0.332	8.0	4.5
26	D50Q26H	Q1	5.520	5.185	12	2-11/16	2-25/32	2-1/2	-	4-1/8	1-15/32	0.332	8.8	5.3
27	D50Q27H	Q1	5.720	5.384	12	2-11/16	2-25/32	2-1/2	-	4-1/8	1-15/32	0.332	9.4	5.9
28	D50Q28H	Q1	5.920	5.582	12	2-11/16	2-25/32	2-1/2	-	4-1/8	1-15/32	0.332	9.8	6.3
30	D50Q30H	Q1	6.320	5.979	12	2-11/16	2-25/32	2-1/2	-	4-1/8	1-15/32	0.332	11.0	7.5
32	D50Q32H	Q1	6.720	6.376	12	2-11/16	2-25/32	2-1/2	-	4-1/8	1-15/32	0.332	12.0	8.5
35	D50Q35H	Q1	7.320	6.972	12	2-11/16	2-25/32	2-1/2	-	4-1/8	1-15/32	0.332	13.9	10.4
36	D50Q36H	Q1	7.520	7.171	12	2-11/16	2-25/32	2-1/2	-	4-1/8	1-15/32	0.332	14.5	11.0
40	D50Q40H	Q1	8.320	7.966	12	2-11/16	2-25/32	2-1/2	-	4-1/8	1-15/32	0.332	17.1	13.6
42	D50Q42H	Q1	8.720	8.363	12	2-11/16	2-25/32	2-1/2	-	4-1/8	1-15/32	0.332	18.5	15.0
45	D50Q45H	Q1	9.310	8.960	12	2-11/16	2-25/32	2-1/2	-	4-1/8	1-15/32	0.332	21.0	17.5
48	D50Q48H	Q1	9.910	9.556	12	2-11/16	2-25/32	2-1/2	-	4-1/8	1-15/32	0.332	23.9	20.4
52	D50Q52	Q1	10.710	10.351	12	2-11/16	2-25/32	2-1/2	-	4-1/8	1-15/32	0.332	26.8	23.3
54	D50Q54	Q1	11.110	10.749	12	2-11/16	2-25/32	2-1/2	-	4-1/8	1-15/32	0.332	26.8	23.3
60	D50Q60	Q1	12.300	11.942	12	2-11/16	2-25/32	2-1/2	-	4-1/8	1-15/32	0.332	29.0	25.5
72	D50Q72	Q1	14.690	14.329	12	2-11/16	2-25/32	2-1/2	-	4-1/8	1-15/32	0.332	46.6	43.1
76	D50Q76	Q1	15.490	15.124	12	2-11/16	2-25/32	2-1/2	-	4-1/8	1-15/32	0.332	49.5	46.0
84	D50Q84	Q1	17.080	16.715	12	2-11/16	2-25/32	2-1/2	-	4-1/8	1-15/32	0.332	60.2	56.7
95	D50R95	R1	19.270	18.903	12	3-3/4	3-5/32	2-7/8	-	5-3/8	2-3/32	0.332	79.8	72.3
96	D50R96	R1	19.470	19.102	12	3-3/4	3-5/32	2-7/8	-	5-3/8	2-3/32	0.332	88.2	80.7
102	D50R102	R1	20.660	20.295	12	3-3/4	3-5/32	2-7/8	-	5-3/8	2-3/32	0.332	92.0	84.5
112	D50R112	R1	22.650	22.285	12	3-3/4	3-5/32	2-7/8	-	5-3/8	2-3/32	0.332	100.7	93.2

Sprockets with "H" suffix have hardened teeth.

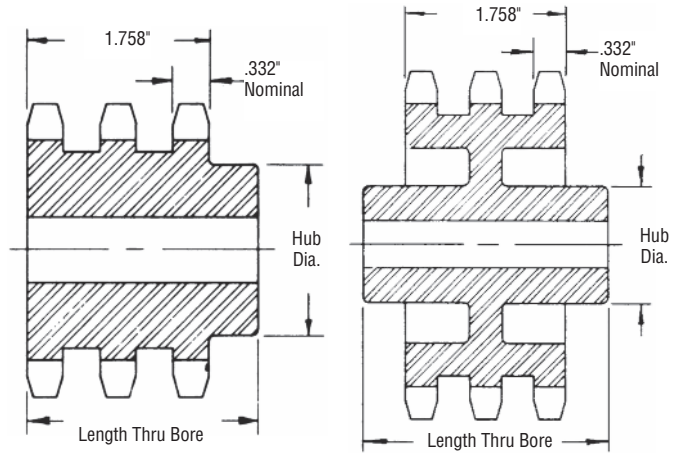
No. 50-3

5/8" Pitch

All Steel Stock Sprockets

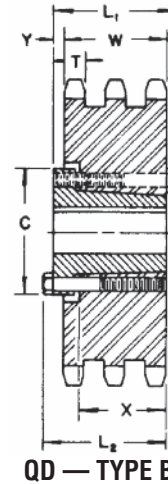
Triple - Type B & C

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)
				Stock	Rec. Max.	Dia.	Length Thru	
11	E50B11H	2.500	B	5/8	15/16	1 1/2	2 1/2	1.42
12	E50B12H	2.710	B	5/8	1 1/8	1 1/8	2 1/2	1.84
13	E50B13H	2.910	B	5/8	1 1/8	1 1/8	2 1/2	2.28
14	E50B14H	3.110	B	5/8	1 1/8	2 1/8	2 1/2	2.72
15	E50B15H	3.320	B	3/4	1 1/2	2 1/8	2 1/2	3.24
16	E50B16H	3.520	B	3/4	1 1/2	2 1/8	2 1/2	3.76
17	E50B17H	3.720	B	3/4	1 1/2	2 1/8	2 1/2	4.38
18	E50B18H	3.920	B	3/4	1 1/2	2 1/8	2 1/2	5.10
19	E50B19H	4.120	B	1	2 1/8	3 1/8	2 1/2	5.60
20	E50B20H	4.320	B	1	2 1/8	3 1/8	2 1/2	6.42
21	E50B21H	4.520	B	1	2 1/8	3 1/8	2 1/2	7.42
22	E50B22H	4.720	B	1	2 1/8	3 1/8	2 1/2	8.13
23	E50B23H	4.920	B	1	2 1/8	3 1/8	2 1/2	8.85
24	E50B24H	5.120	B	1	2 1/8	3 1/8	2 1/2	9.42
25	E50B25H	5.320	B	1	2 1/8	3 1/8	2 1/2	10.16
26	E50B26	5.520	B	1	2 1/8	3 1/8	2 1/2	11.02
30	E50B30	6.320	B	1	2 1/2	3 3/8	2 1/2	14.24
35	E50B35	7.320	B	1	2 1/2	3 3/8	2 1/2	19.09
36	E50B36	7.520	B	1 1/8	2 3/4	4	2 1/2	20.60
42	E50B42	8.720	B	1 1/8	2 3/4	4	2 1/2	27.46
48	E50B48	9.910	B	1 1/8	2 3/4	4	3 1/8	36.64
52	E50B52	10.710	B	1 1/8	2 3/4	4	3 1/8	42.54
60	E50B60	12.300	B	1 1/8	3	4 1/2	3 1/8	57.17
68	E50B68	13.890	B	1 1/8	3	4 1/2	3 1/8	73.21
72	E50C72	14.690	C	1 1/8	3	4 1/2	3 1/8	57.04
76	E50C76	15.490	C	1 1/8	3	4 1/2	3 1/8	61.57
84	E50C84	17.080	C	1 1/8	3	4 1/2	3 1/2	62.86
95	E50C95	19.270	C	1 1/8	3	4 1/2	3 1/2	75.01
102	E50C102	20.660	C	1 1/8	3	4 1/2	3 1/2	86.26



TYPE B

TYPE C



NOTE: Triple 50 stock sprockets with 25 teeth or less have hardened teeth.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

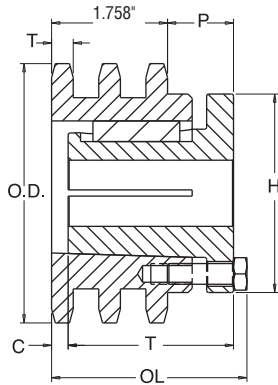
NOTE: Triple 50 stock sprockets with 25 teeth or less have Hardened Teeth. As indicated by H suffix.

Alteration Charges

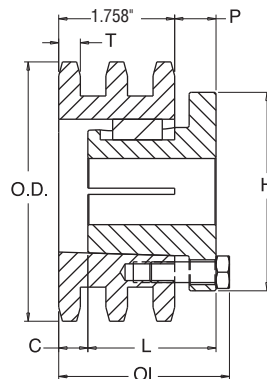
See current discount sheet for alteration charges.

Triple - Type QD

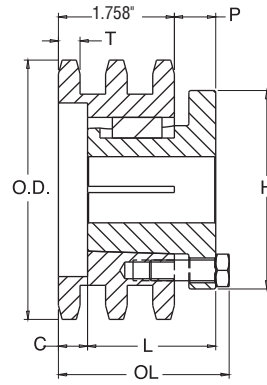
No. Teeth	Catalog Number	Bushing	Diameters		Type	Max. Bore	Dimensions							Weight Lbs. (Approx.)		
			Outside Diameter	Pitch Diameter			L ₁	L ₂	C	Y	V	X	T	W	With Hub	Rim Only
36	E50SK36	SK	7.520	7.171	B	2 1/2	2 1/2	2 1/2	3 1/2	1/2	—	1 1/4	0.332	1.758	14.8	12.8
42	E50SK42	SK	8.720	8.363	B	2 1/2	2 1/2	2 1/2	3 1/2	1/2	—	1 1/4	0.332	1.758	21.5	19.5
48	E50SK48	SK	9.910	9.556	B	2 1/2	2 1/2	2 1/2	3 1/2	1/2	—	1 1/4	0.332	1.758	29.6	27.6
52	E50SF52	SF	10.710	10.351	B	2 1/2	2 1/2	2 1/2	4 1/2	1/2	—	1 1/4	0.332	1.758	31.6	28.6
60	E50SF60	SF	12.300	11.942	B	2 1/2	2 1/2	2 1/2	4 1/2	1/2	—	1 1/4	0.332	1.758	42.1	41.3
68	E50SF68	SF	13.890	13.533	B	2 1/2	2 1/2	2 1/2	4 1/2	1/2	—	1 1/4	0.332	1.758	53.8	45.3
72	E50SF72	SF	14.690	14.329	B	2 1/2	2 1/2	2 1/2	4 1/2	1/2	1/2	1 1/4	0.332	1.758	46.6	60.2
76	E50SF76	SF	15.490	15.124	B	2 1/2	2 1/2	2 1/2	4 1/2	1/2	1/2	1 1/4	0.332	1.758	49.9	67.3
84	E50SF84	SF	17.080	16.715	B	2 1/2	2 1/2	2 1/2	4 1/2	1/2	1/2	1 1/4	0.332	1.758	53.9	72.4
95	E50SF95	SF	19.270	18.903	B	2 1/2	2 1/2	2 1/2	4 1/2	1/2	1/2	1 1/4	0.332	1.758	62.3	91.4
102	E50SF102	SF	20.660	20.295	B	2 1/2	2 1/2	2 1/2	4 1/2	1/2	1/2	1 1/4	0.332	1.758	69.3	103.2



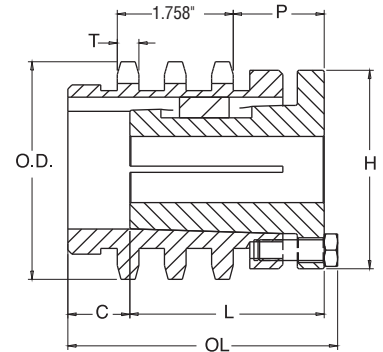
TYPE 22



TYPE 23



TYPE 24



TYPE 27

Triple - MST[®] Sprockets

No. Teeth	Catalog Number	Bush-ing	Diameters		Type	Max. Bore	Dimensions						Weight Lbs. (Approx.)	
			Outside Dia.	Pitch Dia.			OL	L	C	H	P	T(nom)	With Hub	Rim Only
15	E50P15H	P2	3.320	3.006	27	1-3/4	4-1/8	2-15/16	15/16	3	1-3/8	0.332	4.0	2.5
16	E50P16H	P2	3.520	3.204	22	1-3/4	3 3/8	2-15/16	3/16	3	1-3/8	0.332	3.9	2.4
17	E50P17H	P2	3.720	3.401	22	1-3/4	3 3/8	2-15/16	3/16	3	1-3/8	0.332	4.3	2.8
18	E50P18H	P2	3.920	3.599	22	1-3/4	3 3/8	2-15/16	3/16	3	1-3/8	0.332	4.9	3.4
19	E50P19H	P1	4.120	3.797	24	1-3/4	2-5/8	1-15/16	7/16	3	5/8	0.332	4.2	2.9
20	E50P20H	P1	4.320	3.995	24	1-3/4	2-5/8	1-15/16	7/16	3	5/8	0.332	4.4	3.1
21	E50P21H	P1	4.520	4.194	24	1-3/4	2-5/8	1-15/16	7/16	3	5/8	0.332	4.8	3.5
23	E50P23H	P1	4.920	4.590	24	1-3/4	2-5/8	1-15/16	7/16	3	5/8	0.332	5.8	4.5
24	E50Q24H	Q1	5.120	4.788	23	2-11/16	2-25/32	2-1/2	-	4-1/8	3/4	0.332	8.2	4.7
25	E50Q25H	Q1	5.320	4.987	23	2-11/16	2-25/32	2-1/2	-	4-1/8	3/4	0.332	8.5	5.0
26	E50Q26H	Q1	5.520	5.185	23	2-11/16	2-25/32	2-1/2	-	4-1/8	3/4	0.332	9.4	5.9
28	E50Q28H	Q1	5.920	5.582	23	2-11/16	2-25/32	2-1/2	-	4-1/8	3/4	0.332	10.8	7.3
30	E50Q30H	Q1	6.320	5.979	23	2-11/16	2-25/32	2-1/2	-	4-1/8	3/4	0.332	12.3	8.8
32	E50Q32H	Q1	6.720	6.376	23	2-11/16	2-25/32	2-1/2	-	4-1/8	3/4	0.332	14.4	10.9
35	E50Q35H	Q1	7.320	6.972	23	2-11/16	2-25/32	2-1/2	-	4-1/8	3/4	0.332	17.2	13.7
36	E50Q36H	Q1	7.520	7.171	23	2-11/16	2-25/32	2-1/2	-	4-1/8	3/4	0.332	18.1	14.6
40	E50Q40H	Q1	8.320	7.966	23	2-11/16	2-25/32	2-1/2	-	4-1/8	3/4	0.332	22.6	19.1
42	E50Q42H	Q1	8.720	8.363	23	2-11/16	2-25/32	2-1/2	-	4-1/8	3/4	0.332	25.0	21.5
48	E50Q48H	Q1	9.910	9.556	23	2-11/16	2-25/32	2-1/2	-	4-1/8	3/4	0.332	33.1	29.6
52	E50Q52	Q1	10.710	10.351	23	2-11/16	2-25/32	2-1/2	-	4-1/8	3/4	0.332	39.9	36.4
60	E50R60	R1	12.300	11.942	22	3-3/4	2-5/32	2-7/8	-	5-3/8	1-1/8	0.332	55.5	48.0
68	E50R68	R1	13.890	13.533	22	3-3/4	2-5/32	2-7/8	-	5-3/8	1-1/8	0.332	71.0	63.5
72	E50R72	R1	14.690	14.329	22	3-3/4	2-5/32	2-7/8	-	5-3/8	1-1/8	0.332	79.5	72.0
76	E50R76	R1	15.490	15.124	22	3-3/4	2-5/32	2-7/8	-	5-3/8	1-1/8	0.332	88.5	81.0
84	E50R84	R1	17.080	16.715	22	3-3/4	2-5/32	2-7/8	-	5-3/8	1-1/8	0.332	107.5	100.0
95	E50R95	R1	19.270	18.903	22	3-3/4	2-5/32	2-7/8	-	5-3/8	1-1/8	0.332	137.5	130.0
102	E50R102	R1	20.660	20.295	22	3-3/4	2-5/32	2-7/8	-	5-3/8	1-1/8	0.332	158.5	151.0

Sprockets with "H" suffix have hardened teeth.

No. 60
3/4" Pitch

All Steel
Stock Sprockets

Martin

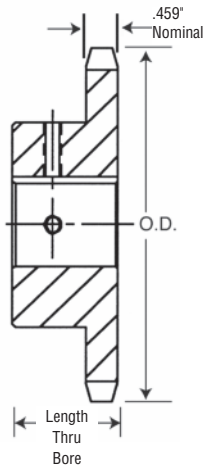
Single Type BS — 2 Setscrews — Bored-To-Size

No. Teeth	Catalog Number	Outside Diameter	Length Thru Bore	Weight Lbs. (Approx.)	Stock Finished Bores Includes Keyway and Setscrews
9	60BS9	2.510	1 1/4	0.6	3/4 — 7/8 — 1
10	60BS10	2.760	1 1/4	0.7	3/4 — 7/8 — 1 — 1 1/8 — 1 1/4 — 1 1/2
11	60BS11	3.000	1 1/4	0.9	3/4 — 7/8 — 1 — 1 1/8 — 1 1/4 — 1 1/2
11	60BS11W*	3.000	1 1/4	0.8	1 1/4
12	60BS12	3.250	1 1/4	1.3	3/4 — 7/8 — 1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2
12	60BS12W*	3.250	1 1/4	1.1	1 1/4
13	60BS13	3.490	1 1/4	1.3	3/4 — 7/8 — 1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2
14	60BS14	3.740	1 1/4	1.6	3/4 — 7/8 — 1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8
15	60BS15	3.980	1 1/4	1.7	3/4 — 7/8 — 1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8
16	60BS16	4.220	1 1/4	2.1	3/4 — 7/8 — 1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
17	60BS17	4.460	1 1/4	2.4	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
18	60BS18	4.700	1 1/4	2.6	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
18	60BS18W*	4.700	1 1/4	2.6	1 1/4
19	60BS19	4.950	1 1/4	3.4	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
20	60BS20	5.190	1 1/4	3.9	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
21	60BS21	5.430	1 1/4	4.4	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
22	60BS22	5.670	1 1/4	4.7	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
23	60BS23	5.910	1 1/4	5.0	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
24	60BS24	6.150	1 1/4	5.3	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
25	60BS25	6.390	1 1/4	5.4	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
26	60BS26	6.630	1 1/4	5.8	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
27	60BS27	6.870	1 1/4	6.3	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
28	60BS28	7.110	1 1/4	6.4	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
29	60BS29	7.350	1 1/4	6.9	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
30	60BS30	7.590	1 1/4	7.1	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
31	60BS31	7.830	1 1/4	7.4	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
32	60BS32	8.070	1 1/4	7.8	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
33	60BS33	8.300	1 1/4	8.2	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
34	60BS34	8.540	1 1/4	8.5	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
35	60BS35	8.780	1 1/4	8.8	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
36	60BS36	9.020	1 1/4	9.2	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
37	60BS37	9.260	1 1/4	9.9	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
38	60BS38	9.500	1 1/4	10.5	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
39	60BS39	9.740	1 1/4	10.9	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
40	60BS40	9.980	1 1/4	11.2	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
41	60BS41	10.220	1 1/4	11.8	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
42	60BS42	10.460	1 1/4	12.4	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
43	60BS43	10.700	1 1/4	13.0	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
44	60BS44	10.940	1 1/4	13.5	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
45	60BS45	11.180	1 1/4	13.8	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
46	60BS46	11.420	1 1/4	14.1	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
47	60BS47	11.650	1 1/4	14.6	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
48	60BS48	11.890	1 1/4	15.4	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
49	60BS49	12.130	1 1/4	16.4	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
50	60BS50	12.370	1 1/4	17.3	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
51	60BS51	12.610	1 1/4	18.3	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
52	60BS52	12.850	1 1/4	19.3	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
53	60BS53	13.090	1 1/4	20.3	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
54	60BS54	13.330	1 1/4	21.0	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
55	60BS55	13.570	1 1/4	21.2	— 1 3/4 — 1 3/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
56	60BS56	13.810	1 1/4	21.3	— 1 3/4 — 1 3/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
57	60BS57	14.040	1 1/4	22.2	— 1 3/4 — 1 3/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
58	60BS58	14.280	1 1/4	23.0	— 1 3/4 — 1 3/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
59	60BS59	14.520	1 1/4	23.8	— 1 3/4 — 1 3/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
60	60BS60	14.760	1 1/4	25.0	— 1 3/4 — 1 3/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
70	60BS70	17.150	1 3/4	31.4	— 1 3/4 — 1 3/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
72	60BS72	17.630	2	33.5	— 1 3/4 — 1 3/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
80	60BS80	19.540	2	41.2	— 1 3/4 — 1 3/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
84	60BS84	20.490	2	45.8	— 1 3/4 — 1 3/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
96	60BS96	23.360	2 1/2	62.3	— 1 3/4 — 1 3/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8
112	60BS112	27.180	2 1/2	81.0	— 1 3/4 — 1 3/4 — 1 1/2 — 1 3/4 — 2 — 2 1/8 — 2 3/8 — 2 7/8

Hub diameters vary to suit different bore sizes.

KEYWAY IS ON CENTER LINE OF TOOTH.

W = Winch Sprockets — KW 3/16" x 3/32" — One SS at 90°



TYPE BS

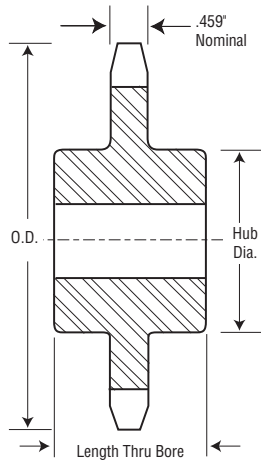


No. 60-Hardened Teeth — 2 Setscrews

No. Teeth	Catalog Number	Outside Diameter	Length Thru Bore	Weight Lbs. (Approx.)	Stock Finished Bores Includes Keyway and Setscrews
9	60BS9HT	2.51	1 1/4	0.6	3/4 — 7/8 — 1
10	60BS10HT	2.76	1 1/4	0.7	3/4 — 7/8 — 1 — 1 1/8 — 1 1/4 — 1 1/2
11	60BS11HT	3.00	1 1/4	0.9	3/4 — 7/8 — 1 — 1 1/8 — 1 1/4 — 1 1/2
12	60BS12HT	3.25	1 1/4	1.3	3/4 — 7/8 — 1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4
13	60BS13HT	3.49	1 1/2	1.3	3/4 — 7/8 — 1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 1 1/2
14	60BS14HT	3.74	1 1/2	1.6	3/4 — 7/8 — 1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 1 1/2 — 1 3/4
15	60BS15HT	3.98	1 1/2	1.7	3/4 — 7/8 — 1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 1 1/2 — 1 3/4 — 1 3/4
16	60BS16HT	4.22	1 1/2	2.1	3/4 — 7/8 — 1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 1 1/2 — 1 3/4 — 1 3/4 — 1 3/4
17	60BS17HT	4.46	1 1/2	2.4	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 1 1/2 — 1 3/4 — 1 1/2 — 1 3/4 — 1 1/2
18	60BS18HT	4.70	1 1/2	2.6	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 1 1/2 — 1 3/4 — 1 1/2 — 1 3/4 — 1 1/2
19	60BS19HT	4.95	1 1/2	3.4	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 1 1/2 — 1 3/4 — 1 1/2 — 1 3/4 — 1 1/2
20	60BS20HT	5.19	1 1/2	3.9	1 — 1 1/8 — 1 1/4 — 1 1/2 — 1 3/4 — 1 1/2 — 1 3/4 — 1 1/2 — 1 3/4 — 1 1/2

KEYWAY IS ON CENTER LINE OF TOOTH.

Martin stock hardened teeth sprockets afford longer chain and sprocket life. Hardened teeth on the smaller sprocket of a roller chain drive are recommended if the drive ratio is four to one or greater or if the smaller sprocket has 24 teeth or less and is running at a speed of over 600 R.P.M.



TYPE C

Single - Type C

No. Teeth	Catalog Number	Outside Diameter	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)
			Stock	Rec. Max.	Diameter	Length	
12	60C12	3.250	3/4	1 1/8	2 3/8 ★★	2	2.25
13	60C13	3.490	3/4	1 1/2	2 1/2	2	2.75
14	60C14	3.740	3/4	1 3/4	2 3/8	2	3.19
15	60C15	3.980	3/4	1 7/8	2 1/2	2	3.10
16	60C16	4.220	3/4	2	3 1/8	2	4.19
17	60C17	4.460	3/4	2 1/4	3 1/4	2	4.81
18	60C18	4.700	3/4	2 3/4	3 1/2	2	5.62

★★ Has recessed groove in hub for chain clearance.

No. 60
3/4" Pitch

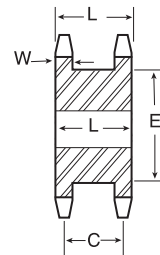
All Steel
Stock Sprockets

Martin



Double Single - Type A — Steel

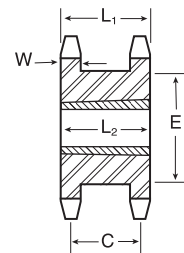
No. Teeth	Catalog Number	Diameters		Type	Min. Bore	Max. Bore	Dimensions				Wt. Lbs. (Approx.)
		Outside Diameter	Pitch Diameter				L	C	E	w Nom.	
13	DS60A13	3.490	3.134	A	3/8	1 1/4	1 1/16	1 3/4	2 1/32	0.459	2.6
14	DS60A14	3.740	3.371	A	3/8	1 1/8	1 1/16	1 3/4	2 3/16	0.459	3.2
15	DS60A15	3.980	3.607	A	3/8	1 1/2	1 1/16	1 3/4	2 1/2	0.459	3.8
16	DS60A16	4.220	3.844	A	3/8	1 1/16	1 1/16	1 3/4	3 3/4	0.459	4.5
17	DS60A17	4.460	4.082	A	3/8	1 1/4	1 1/16	1 3/4	3 1/4	0.459	5.3
18	DS60A18	4.700	4.319	A	3/8	1 1/8	1 1/16	1 3/4	3 1/2	0.459	6.5
19	DS60A19	4.950	4.557	A	3/8	2 1/16	1 1/16	1 3/4	3 3/4	0.459	6.8
20	DS60A20	5.190	4.794	A	3/8	2 1/4	1 1/16	1 3/4	3 3/4	0.459	7.0
21	DS60A21	5.430	5.032	A	3/8	2 3/4	1 1/16	1 3/4	4 1/16	0.459	7.5
22	DS60A22	5.670	5.270	A	3/8	2 3/4	1 1/16	1 3/4	4 1/16	0.459	11.0
23	DS60A23	5.910	5.508	A	3/8	2 3/4	1 1/16	1 3/4	4 21/32	0.459	11.5
24	DS60A24	6.150	5.749	A	3/8	2 3/4	1 1/16	1 3/4	4 3/8	0.459	12.0



TYPE A

Double Single - Taper Bushed — Steel

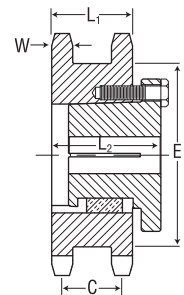
No. Teeth	Catalog Number	Bushing Size	Diameters		Min. Bore	Max. Bore	Type	Dimensions				Wt. Rim Only	
			Outside Diameter	Pitch Diameter				L ₁	C	E	L ₂		w Nom.
16	DS60ATB16H	1615	4.220	3.844	1/2	1 1/8	A	1 1/16	1 3/4	2 3/4	1 1/2	0.459	4.5
17	DS60ATB17H	1615	4.460	4.002	1/2	1 1/8	A	1 1/16	1 3/4	3 1/2	1 1/2	0.459	4.5
18	DS60ATB18H	2012	4.700	4.319	1/2	2	A	1 1/16	1 3/4	3 1/2	1 1/4	0.459	5.0
19	DS60ATB19H	2012	4.950	4.557	1/2	2	A	1 1/16	1 3/4	3 3/4	1 1/4	0.459	5.8
20	DS60ATB20H	2517	5.190	4.794	1/2	2 1/2	A	1 1/16	1 3/4	3 3/4	1 1/4	0.459	5.6
21	DS60ATB21H	2517	5.430	5.032	1/2	2 1/2	A	1 1/16	1 3/4	4 1/16	1 1/4	0.459	6.4
23	DS60ATB23H	2517	5.910	5.508	1/2	2 1/2	A	1 1/16	1 3/4	4 3/4	1 1/4	0.459	7.3
24	DS60ATB24H	2517	6.150	5.746	1/2	2 1/2	A	1 1/16	1 3/4	4 3/2	1 1/4	0.459	8.2



TAPER BUSH TYPE A

Double Single - MST® — Steel

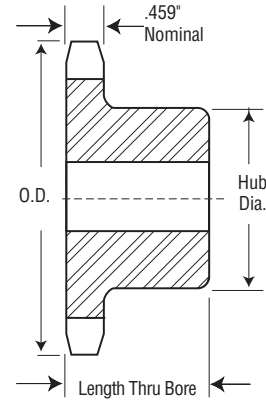
No. Teeth	Catalog Number	Bushing Size	Diameters		Min. Bore	Max. Bore	Type	Dimensions				Wt. Rim Only	
			Outside Diameter	Pitch Diameter				L ₁	C	E	L ₂		w Nom.
17	DS60P17H	P1	4.460	4.002	1/2	1 1/4	B	1 1/16	1 3/4	3 1/2	1 1/16	0.459	3.9
19	DS60P19H	P1	4.950	4.557	1/2	1 1/4	B	1 1/16	1 3/4	3 3/4	1 1/16	0.459	5.3
21	DS60Q21H	Q1	5.430	5.032	3/4	2 1/16	B	1 1/16	1 3/4	4 1/16	2 1/2	0.459	5.4
22	DS60Q22H	Q1	5.670	5.270	3/4	2 1/16	B	1 1/16	1 3/4	4 3/4	2 1/2	0.459	6.2
23	DS60Q23H	Q1	5.910	5.508	3/4	2 1/16	B	1 1/16	1 3/4	4 3/4	2 1/2	0.459	6.9
24	DS60Q24H	Q1	6.150	5.746	3/4	2 1/16	B	1 1/16	1 3/4	4 3/2	2 1/2	0.459	7.6



MST TYPE B



STAINLESS STEEL



TYPE B

Single - Type B — Stainless

Single - Type A

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)	Type	Catalog Number	Stock Bore	Weight Lbs. (Appl.)
				Stock	Rec. Max.	Diameter	Length Thru					
8	60B8SS	2.261	B	5/8	5/8	1 1/2★	1 1/4	0.54	—	—	—	—
9	60B9SS	2.511	B	3/4	7/8	1 5/8★	1 1/4	0.64	—	—	—	—
10	60B10SS	2.759	B	3/4	1 1/8	1 5/8★	1 1/4	0.99	—	—	—	—
11	60B11SS	3.005	B	3/4	1 1/8	2 1/8★	1 1/4	1.16	—	—	—	—
12	60B12SS	3.249	B	3/4	1 3/8	2 3/8★	1 1/4	1.50	—	—	—	—
13	60B13SS	3.493	B	3/4	1 1/2	2 1/2	1 1/4	1.71	—	—	—	—
14	60B14SS	3.736	B	3/4	1 3/4	2 5/8	1 1/4	2.05	A	60A13SS	3/4	0.80
15	60B15SS	3.978	B	3/4	1 3/4	2 5/8	1 1/4	2.51	A	60A14SS	3/4	0.94
16	60B16SS	4.220	B	3/4	2	3 1/8	1 1/4	2.88	A	60A15SS	3/4	1.08
17	60B17SS	4.462	B	3/4	2 1/4	3 1/4	1 1/4	3.27	A	60A16SS	3/4	1.24
18	60B18SS	4.703	B	3/4	2 1/2	3 1/2	1 1/4	3.77	A	60A17SS	3/4	1.44
19	60B19SS	4.945	B	3/4	2 3/4	3 3/2	1 1/4	3.98	A	60A18SS	3/4	1.62
20	60B20SS	5.186	B	3/4	2 3/4	3 3/2	1 1/4	4.69	A	60A20SS	3/4	1.84
21	60B21SS	5.426	B	3/4	2 3/4	4	1 1/4	5.10	A	60A21SS	3/4	2.34
22	60B22SS	5.666	B	3/4	2 3/4	4	1 1/4	5.34	A	60A22SS	3/4	2.56
23	60B23SS	5.907	B	3/4	2 3/4	4	1 1/4	5.59	A	60A23SS	3/4	2.81
24	60B24SS	6.147	B	3/4	2 3/4	4	1 1/4	5.59	A	60A24SS	2 3/8	3.08
25	60B25SS	6.387	B	3/4	2 3/4	4	1 1/4	6.13	A	60A25SS	2 3/8	3.35
26	60B26SS	6.627	B	3/4	2 3/4	4	1 1/4	6.42	A	60A26SS	2 3/8	3.67
28	60B28SS	7.106	B	3/4	2 3/4	4	1 1/4	7.03	A	60A28SS	2 3/8	4.28
30	60B30SS	7.586	B	3/4	2 3/4	4	1 1/4	7.69	A	60A30SS	2 3/8	4.94
32	60B32SS	8.065	B	3/4	2 3/4	4	1 1/4	5.26	A	60A32SS	2 3/8	5.52
35	60B35SS	8.783	B	1	2 3/4	4	1 1/4	9.41	A	60A35SS	1 1/8	6.74
36	60B36SS	9.023	B	1	2 3/4	4	1 1/4	9.60	A	60A36SS	1 5/8	6.82
40	60B40SS	9.980	B	1	2 3/4	4 1/4	1 1/4	11.91	A	60A40SS	1 5/8	8.88
45	60B45SS	11.176	B	1	2 3/4	4 3/4	1 1/4	14.34	A	60A45SS	1 5/8	11.30
60	60B60SS	14.761	B	1 1/4	2 3/4	4 1/4	1 3/4	25.05	A	60A60SS	1 1/4	20.08

★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

Sprockets altered at factory (rebored with keyway and setscrew added) will be supplied with stainless setscrew.

Alteration Charges

See current discount sheet for alteration charges.

No. 60

3/4" Pitch

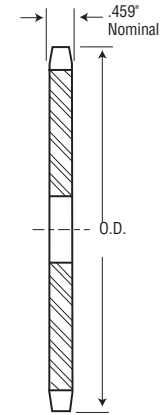
All Steel Stock Sprockets



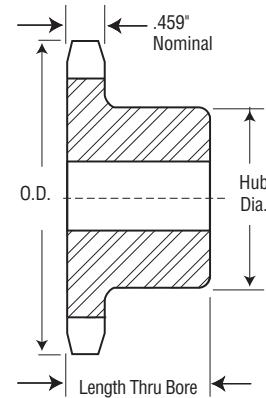
Single - Type B

Single - Type A

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs (Approx.)	Type	Catalog Number	Stock Bore	Weight Lbs. (Approx.)
				Stock	Rec. Max.	Diameter	Length Thru					
8	60B8	2.260	B	3/8	3/8	1 1/8★	1 1/4	0.54	-	-	-	-
9	60B9	2.510	B	3/8	7/8	1 1/8★	1 1/4	0.64	-	-	-	-
10	60B10	2.760	B	3/8	1 1/8	1 1/8★	1 1/4	0.99	A	60A10	3/8	0.44
11	60B11	3.000	B	3/8	1 1/8	2 1/8★	1 1/4	1.16	A	60A11	3/8	0.54
12	60B12	3.250	B	3/8	1 1/8	2 3/8★	1 1/4	1.47	A	60A12	3/8	0.68
13	60B13	3.490	B	3/8	1 1/2	2 11/32	1 1/4	1.66	A	60A13	3/8	0.80
14	60B14	3.740	B	3/8	1 3/4	2 3/8	1 1/4	2.00	A	60A14	3/8	0.94
15	60B15	3.980	B	3/8	1 3/4	2 3/8	1 1/4	2.51	A	60A15	3/8	1.08
16	60B16	4.220	B	3/8	2	3 1/8	1 1/4	2.81	A	60A16	3/8	1.24
17	60B17	4.460	B	3/8	2 1/4	3 1/4	1 1/4	3.22	A	60A17	3/8	1.44
18	60B18	4.700	B	3/8	2 3/8	3 1/2	1 1/4	3.72	A	60A18	3/8	1.62
19	60B19	4.950	B	3/8	2 3/8	3 1/2	1 1/4	3.92	A	60A19	3/8	1.84
20	60B20	5.190	B	3/8	2 3/4	3 3/4	1 1/4	4.63	A	60A20	3/8	2.12
21	60B21	5.430	B	3/8	2 3/4	4	1 1/4	5.00	A	60A21	3/8	2.28
22	60B22	5.670	B	3/8	2 3/4	4	1 1/4	5.25	A	60A22	3/8	2.48
23	60B23	5.910	B	3/8	2 3/4	4	1 1/4	5.48	A	60A23	3/8	2.68
24	60B24	6.150	B	3/8	2 3/4	4	1 1/4	5.78	A	60A24	23/32	3.00
25	60B25	6.390	B	3/8	2 3/4	4	1 1/4	6.13	A	60A25	23/32	3.34
26	60B26	6.630	B	3/8	2 3/4	4	1 1/4	6.38	A	60A26	23/32	3.54
27	60B27	6.870	B	3/8	2 3/4	4	1 1/4	6.72	A	60A27	23/32	3.96
28	60B28	7.110	B	3/8	2 3/4	4	1 1/4	6.88	A	60A28	23/32	4.14
29	60B29	7.350	B	3/8	2 3/4	4	1 1/4	7.28	A	60A29	23/32	4.40
30	60B30	7.590	B	3/8	2 3/4	4	1 1/4	7.58	A	60A30	23/32	4.78
31	60B31	7.830	B	3/8	2 3/4	4	1 1/4	7.72	A	60A31	23/32	5.24
32	60B32	8.070	B	3/8	2 3/4	4	1 1/4	8.26	A	60A32	23/32	5.52
33	60B33	8.300	B	1	2 3/4	4	1 1/4	8.42	A	60A33	15/16	5.86
34	60B34	8.540	B	1	2 3/4	4	1 1/4	8.80	A	60A34	15/16	6.16
35	60B35	8.780	B	1	2 3/4	4	1 1/4	9.04	A	60A35	15/16	6.78
36	60B36	9.020	B	1	2 3/4	4	1 1/4	9.60	A	60A36	15/16	6.82
37	60B37	9.260	B	1	2 3/4	4	1 1/4	10.24	A	60A37	15/16	7.52
38	60B38	9.500	B	1	2 3/4	4 1/4	1 1/4	10.84	A	60A38	15/16	7.84
39	60B39	9.740	B	1	2 3/4	4 1/4	1 1/4	11.36	A	60A39	15/16	8.28
40	60B40	9.980	B	1	2 3/4	4 1/4	1 1/4	11.50	A	60A40	15/16	8.56
41	60B41	10.220	B	1	2 3/4	4 1/4	1 1/4	12.14	A	60A41	15/16	9.10
42	60B42	10.460	B	1	2 3/4	4 1/4	1 1/4	12.74	A	60A42	15/16	9.84
43	60B43	10.700	B	1	2 3/4	4 1/4	1 1/4	13.00	A	60A43	15/16	9.74
44	60B44	10.940	B	15/16	2 3/4	4 1/4	1 1/4	13.88	A	60A44	15/16	10.76
45	60B45	11.180	B	15/16	2 3/4	4 1/4	1 1/4	13.98	A	60A45	15/16	11.08
46	60B46	11.420	B	15/16	2 3/4	4 1/4	1 1/4	14.60	A	60A46	15/16	11.50
47	60B47	11.650	B	15/16	2 3/4	4 1/4	1 1/4	15.00	A	60A47	15/16	12.32
48	60B48	11.890	B	15/16	2 3/4	4 1/4	1 1/4	15.82	A	60A48	15/16	12.42
49	60B49	12.130	B	15/16	2 3/4	4 1/4	1 1/4	15.90	A	60A49	15/16	12.92
50	60B50	12.370	B	15/16	2 3/4	4 1/4	1 1/4	17.66	A	60A50	15/16	13.98
51	60B51	12.610	B	15/16	2 3/4	4 1/4	1 1/4	16.98	A	60A51	15/16	14.58
52	60B52	12.850	B	15/16	2 3/4	4 1/4	1 1/4	17.93	A	60A52	15/16	14.60
53	60B53	13.090	B	15/16	2 3/4	4 1/4	1 1/4	17.99	A	60A53	15/16	15.84
54	60B54	13.330	B	15/16	2 3/4	4 1/4	1 1/4	21.60	A	60A54	15/16	15.92
55	60B55	13.570	B	1 1/4	2 3/4	4 1/4	1 3/4	21.14	A	60A55	1 1/4	16.96
56	60B56	13.810	B	1 1/4	2 3/4	4 1/4	1 3/4	21.88	A	60A56	1 1/4	17.60
57	60B57	14.040	B	1 1/4	2 3/4	4 1/4	1 3/4	22.26	A	60A57	1 1/4	17.62
58	60B58	14.280	B	1 1/4	2 3/4	4 1/4	1 3/4	22.80	A	60A58	1 1/4	19.00
59	60B59	14.520	B	1 1/4	2 3/4	4 1/4	1 3/4	23.86	A	60A59	1 1/4	19.20
60	60B60	14.760	B	1 1/4	2 3/4	4 1/4	1 3/4	25.22	A	60A60	1 1/4	20.02
64	60B64	15.720	B	1 1/4	2 3/4	4 1/4	1 3/4	27.40	A	60A64	1 1/4	23.00
65	60B65	15.960	B	1 1/4	2 3/4	4 1/4	1 3/4	28.92	A	60A65	1 1/4	23.24
66	-	-	-	-	-	-	-	-	A	60A66	1 1/4	24.42
68	60B68	16.670	B	1 1/4	2 3/4	4 1/4	1 3/4	30.38	A	60A68	1 1/4	25.54
70	60B70	17.150	B	1 1/4	2 3/4	4 1/4	1 3/4	31.98	A	60A70	1 1/4	27.20
72	60B72	17.630	B	1 1/4	2 3/4	4 1/4	2	34.18	A	60A72	1 1/4	28.90
76	60B76	18.580	B	1 1/4	2 3/4	4 1/4	2	38.06	A	60A76	1 1/4	32.34
80	60B80	19.540	B	1 1/4	2 3/4	4 1/4	2	41.88	A	60A80	1 1/4	45.50
84	60B84	20.490	B	1 1/4	3 1/4	4 3/4	2	46.46	A	60A84	1 1/4	40.18
90	60B90	21.930	B	1 1/4	3 3/4	5	2 1/2	63.20	A	60A90	1 1/4	43.44
96	60B96	23.360	B	1 1/4	3 3/4	5 1/2	2 1/2	63.08	A	60A96	1 1/4	52.02
112	60B112	27.180	B	1 1/4	3 3/4	5 1/2	2 1/2	81.78	A	60A112	1 1/4	70.80



TYPE A



TYPE B

Alteration Charges

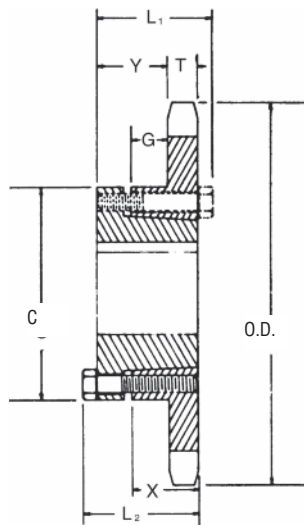
See current discount sheet for alteration charges.

★ Has recessed groove in hub for chain clearance.

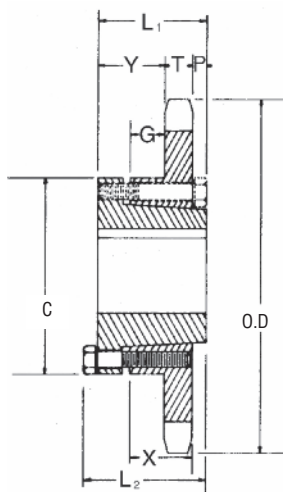
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

Single - Type QD With Hardened Teeth

No. Teeth	Catalog Number
11	60JA11H
12	60JA12H
13	60JA13H
14	60SH14H
15	60SH15H
16	60SH16H
17	60SDS17H
18	60SDS18H
19	60SDS19H
20	60SDS20H
21	60SDS21H
22	60SDS22H
23	60SDS23H
24	60SDS24H
25	60SDS25H
26	60SK26H
27	60SK27H
28	60SK28H
30	60SK30H



QD — TYPE B



QD — TYPE B1

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TOOTH®



Single - Type QD

No. Teeth	Catalog Number	Bushing	Diameters		Type	Max. Bore	Dimensions						Weight Lbs. (Approx.)		
			Outside Diameter	Pitch Diameter			L ₁	L ₂	C	Y	G	X	T	With Hub	Rim Only
11	60JA11	JA	3.000	2.662	B	1 1/4	1 1/8	1 1/8	2 1/16	5/64	1 1/64	5/8	0.459	1.36	0.46
12	60JA12	JA	3.250	2.898	B	1 1/4	1 1/8	1 1/8	2 1/16	5/64	1 1/64	5/8	0.459	1.50	0.60
13	60JA13	JA	3.490	3.134	B	1 1/4	1 1/8	1 1/8	2 1/16	5/64	1 1/64	5/8	0.459	1.66	0.76
14	60SH14	SH	3.740	3.371	B	1 1/2	1 1/8	1 1/8	2 1/16	5/64	1 1/64	5/8	0.459	1.88	0.88
15	60SH15	SH	3.980	3.607	B	1 1/2	1 1/8	1 1/8	2 1/16	5/64	1 1/64	5/8	0.459	2.08	1.08
16	60SH16	SH	4.220	3.844	B	1 1/2	1 1/8	1 1/8	2 1/16	5/64	1 1/64	5/8	0.459	2.26	1.26
17	60SDS17	SDS	4.460	4.082	B	2	1 1/2	1 1/2	3 1/16	5/64	1 1/64	5/8	0.459	2.38	1.38
18	60SDS18	SDS	4.700	4.319	B	2	1 1/2	1 1/2	3 1/16	5/64	1 1/64	5/8	0.459	2.56	1.56
19	60SDS19	SDS	4.950	4.557	B	2	1 1/2	1 1/2	3 1/16	5/64	1 1/64	5/8	0.459	2.76	1.76
20	60SDS20	SDS	5.190	4.794	B	2	1 1/2	1 1/2	3 1/16	5/64	1 1/64	5/8	0.459	3.00	2.00
21	60SDS21	SDS	5.430	5.032	B	2	1 1/2	1 1/2	3 1/16	5/64	1 1/64	5/8	0.459	3.20	2.20
22	60SDS22	SDS	5.670	5.270	B	2	1 1/2	1 1/2	3 1/16	5/64	1 1/64	5/8	0.459	3.44	2.44
23	60SDS23	SDS	5.910	5.508	B	2	1 1/2	1 1/2	3 1/16	5/64	1 1/64	5/8	0.459	3.70	2.70
24	60SDS24	SDS	6.150	5.746	B	2	1 1/2	1 1/2	3 1/16	5/64	1 1/64	5/8	0.459	3.94	2.94
25	60SDS25	SDS	6.390	5.984	B	2	1 1/2	1 1/2	3 1/16	5/64	1 1/64	5/8	0.459	4.24	3.24
26	60SK26	SK	6.630	6.222	B	2 1/2	2 1/8	2 1/8	3 3/8	1 1/64	5/64	1 1/4	0.459	6.18	4.18
27	60SK27	SK	6.870	6.460	B	2 1/2	2 1/8	2 1/8	3 3/8	1 1/64	5/64	1 1/4	0.459	6.52	4.52
28	60SK28	SK	7.110	6.699	B	2 1/2	2 1/8	2 1/8	3 3/8	1 1/64	5/64	1 1/4	0.459	6.72	4.72
30	60SK30	SK	7.590	7.175	B	2 1/2	2 1/8	2 1/8	3 3/8	1 1/64	5/64	1 1/4	0.459	7.34	5.34
32	60SK32	SK	8.070	7.652	B	2 1/2	2 1/8	2 1/8	3 3/8	1 1/64	5/64	1 1/4	0.459	8.10	6.10
35	60SK35	SK	8.780	8.367	B	2 1/2	2 1/8	2 1/8	3 3/8	1 1/64	5/64	1 1/4	0.459	9.42	7.42
36	60SK36	SK	9.020	8.605	B	2 1/2	2 1/8	2 1/8	3 3/8	1 1/64	5/64	1 1/4	0.459	9.70	7.70
40	60SK40	SK	9.980	9.559	B	2 1/2	2 1/8	2 1/8	3 3/8	1 1/64	5/64	1 1/4	0.459	11.56	9.56
42	60SF42	SF	10.460	10.036	B	2 1/2	2 1/8	2 1/8	4 1/8	1 1/64	5/64	1 1/4	0.459	13.78	10.78
45	60SF45	SF	11.180	10.752	B	2 1/2	2 1/8	2 1/8	4 1/8	1 1/64	5/64	1 1/4	0.459	15.40	12.40
48	60SF48	SF	11.890	11.467	B	2 1/2	2 1/8	2 1/8	4 1/8	1 1/64	5/64	1 1/4	0.459	17.26	14.26
54	60SF54	SF	13.330	12.899	B	2 1/2	2 1/8	2 1/8	4 1/8	1 1/64	5/64	1 1/4	0.459	20.02	17.02
60	60SF60	SF	14.760	14.331	B	2 1/2	2 1/8	2 1/8	4 1/8	1 1/64	5/64	1 1/4	0.459	23.76	20.76
70	60SF70	SF	17.150	16.717	B	2 1/2	2 1/8	2 1/8	4 1/8	1 1/64	5/64	1 1/4	0.459	31.60	28.60
72	60SF72	SF	17.630	17.194	B	2 1/2	2 1/8	2 1/8	4 1/8	1 1/64	5/64	1 1/4	0.459	32.58	29.58
80	60SF80	SF	19.540	19.103	B	2 1/2	2 1/8	2 1/8	4 1/8	1 1/64	5/64	1 1/4	0.459	41.24	38.24
84	60SF84	SF	20.490	20.058	B	2 1/2	2 1/8	2 1/8	4 1/8	1 1/64	5/64	1 1/4	0.459	43.94	40.94
96	60SF96	SF	23.360	22.922	B	2 1/2	2 1/8	2 1/8	4 1/8	1 1/64	5/64	1 1/4	0.459	55.40	52.40
112	60E112	E	27.180	26.742	B1	3 1/2	2 1/8	2 1/8	6	2 1/8	1 1/64	1 1/4	0.459	83.76	73.76

No. 60

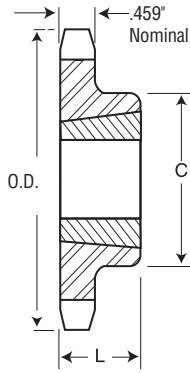
3/4" Pitch

All Steel Stock Sprockets

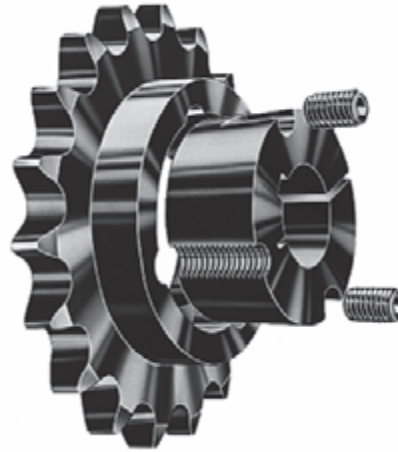
Single - Taper Bushed with Hardened Teeth

No. Teeth	Catalog Number
11	60BTB11H
12	60BTB12H
13	60BTB13H
14	60BTB14H
15	60BTB15H
16	60BTB16H
17	60BTB17H
18	60BTB18H
19	60BTB19H
20	60BTB20H
21	60BTB21H
22	60BTB22H
23	60BTB23H
24	60BTB24H
25	60BTB25H
26	60BTB26H
27	60BTB27H
28	60BTB28H
30	60BTB30H

**SABER
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**TAPER BUSH
TYPE B**



Single - Taper Bushed

No. Teeth	Catalog Number	Bushing	Diameters		Max. Bore	Dimensions		Type	Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter		L	C		Rim Only	Bushing Only
11	60BTB11	1008	3.004	2.662	1	3/8	1 1/16	B	0.6	0.3
12	60BTB12	1008	3.249	2.898	1	3/8	1 1/16	B	0.8	0.3
13	60BTB13	1210	3.493	3.134	1 1/4	1	2 1/32★	B	0.8	0.6
14	60BTB14	1210	3.736	3.371	1 1/4	1	2 9/32	B	1.0	0.6
15	60BTB15	1610	3.979	3.607	1 1/2	1	2 5/32	B	1.0	0.9
16	60BTB16	1610	4.221	3.844	1 1/2	1	3	B	1.4	0.9
17	60BTB17	1610	4.462	4.082	1 1/2	1	3 1/4	B	1.8	0.9
18	60BTB18	1610	4.704	4.319	1 1/2	1	3 1/2	B	1.9	0.9
19	60BTB19	1610	4.945	4.557	1 1/2	1	3 3/4	B	2.2	0.9
20	60BTB20	2012	5.185	4.794	2	1 1/4	3 5/16	B	2.2	1.7
21	60BTB21	2012	5.426	5.032	2	1 1/4	4	B	2.5	1.7
22	60BTB22	2012	5.666	5.270	2	1 1/4	4	B	2.8	1.7
23	60BTB23	2012	5.907	5.508	2	1 1/4	4	B	3.1	1.7
24	60BTB24	2012	6.147	5.746	2	1 1/4	3 3/8	B	3.4	1.7
25	60BTB25	2012	6.387	5.984	2	1 1/4	3 3/8	B	3.7	1.7
26	60BTB26	2012	6.627	6.222	2	1 1/4	3 3/8	B	4.0	1.7
27	60BTB27	2012	6.867	6.416	2	1 1/4	3 3/8	B	4.2	1.7
28	60BTB28	2012	7.107	6.699	2	1 1/4	3 3/8	B	4.6	1.7
30	60BTB30	2012	7.586	7.175	2	1 1/4	3 3/8	B	5.2	1.7
32	60BTB32	2012	8.065	7.652	2	1 1/4	3 3/8	B	5.6	1.7
35	60BTB35	2012	8.783	8.367	2	1 1/4	3 3/8	B	6.4	1.7
36	60BTB36	2012	9.022	8.605	2	1 1/4	3 3/8	B	6.6	1.7
40	60BTB40	2012	9.980	9.559	2	1 1/4	3 3/8	B	8.3	1.7
42	60BTB42	2012	10.458	10.036	2	1 1/4	3 3/8	B	10.0	1.7
45	60BTB45	2012	11.175	10.752	2	1 1/4	3 3/8	B	11.5	1.7
48	60BTB48	2012	11.893	11.467	2	1 1/4	3 3/8	B	13.2	1.7
54	60BTB54	2517	13.327	12.899	2 1/2	1 3/4	4 1/4	B	17.1	3.5
60	60BTB60	2517	14.761	14.330	2 1/2	1 3/4	4 1/4	B	21.0	3.5
70	60BTB70	2517	17.150	16.717	2 1/2	1 3/4	4 1/4	B	27.6	3.5
72	60BTB72	2517	17.628	17.194	2 1/2	1 3/4	4 1/4	B	30.0	3.5
80	60BTB80	2517	19.539	19.103	2 1/2	1 3/4	4 1/4	B	36.3	3.5
84	60BTB84	2517	20.494	20.058	2 1/2	1 3/4	4 1/4	B	40.6	3.5

★ Has recessed groove in hub for chain clearance.

No. 60-2

3/4" Pitch

All Steel Stock Sprockets

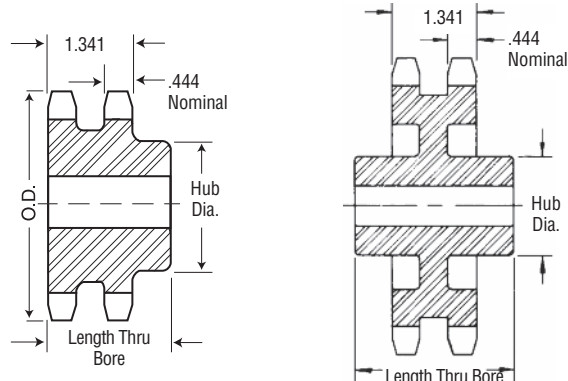


Double - Type B & C

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)
				Stock	Rec. Max.	Dia.	Length Thru	
11	D60B11H	3.000	B	1	1 1/4	1 1/16	2 1/2	1.62
12	D60B12H	3.250	B	1	1 1/4	2 1/4	2 1/2	2.20
13	D60B13H	3.490	B	1	1 1/2	2 1/4	2 1/2	2.60
14	D60B14H	3.740	B	1	1 3/4	2 1/2	2 1/2	3.24
15	D60B15H	3.980	B	1	1 3/4	2 5/16	2 1/2	3.96
16	D60B16H	4.220	B	1	2	3	2 1/2	4.62
17	D60B17H	4.460	B	1	2 1/4	3 1/4	2 1/2	5.40
18	D60B18H	4.700	B	1	2 1/2	3 1/2	2 1/2	6.24
19	D60B19H	4.950	B	1	2 1/2	3 5/16	2 1/2	7.00
20	D60B20H	5.190	B	1	2 1/2	3 3/4	2 1/2	7.72
21	D60B21H	5.430	B	1	2 3/4	4 1/4	2 1/2	8.82
22	D60B22H	5.670	B	1	2 3/4	4 1/2	2 1/2	9.68
23	D60B23H	5.910	B	1	2 3/4	4 3/4	2 1/2	10.30
24	D60B24H	6.150	B	1	2 3/4	4 1/2	2 1/2	11.14
25	D60B25H	6.390	B	1	2 3/4	4 1/2	2 1/2	11.96
26	D60B26	6.630	B	1	2 3/4	4 1/2	2 1/2	12.70
30	D60B30	7.590	B	1	2 3/4	4 1/2	2 1/2	16.36
32	D60B32	8.070	B	1 1/4	3	4 1/2	2 1/2	19.52
35	D60B35	8.780	B	1 1/4	3	4 1/2	2 1/2	22.80
36	D60B36	9.020	B	1 1/4	3	4 1/2	2 1/2	23.82
40	D60B40	9.980	B	1 1/4	3 1/4	4 1/2	2 1/2	30.84
42	D60B42	10.460	B	1 1/4	3 1/4	4 1/2	2 1/2	33.08
45	D60B45	11.180	B	1 1/4	3 1/4	4 1/2	2 1/2	37.08
52	D60B52	12.850	B	1 1/4	3 1/4	4 1/2	2 1/2	48.70
60	D60B60	14.760	B	1 1/4	3 1/4	4 1/2	2 1/2	63.10
68	D60C68	16.670	C	1 1/4	3 3/16	5	3	53.68
72	D60C72	17.630	C	1 1/4	3 1/4	5	3	53.74
76	D60C76	18.580	C	1 1/4	3 3/16	5	3	60.28
95	D60C95	23.120	C	1 1/4	3 1/4	5 1/2	3 1/2	87.14

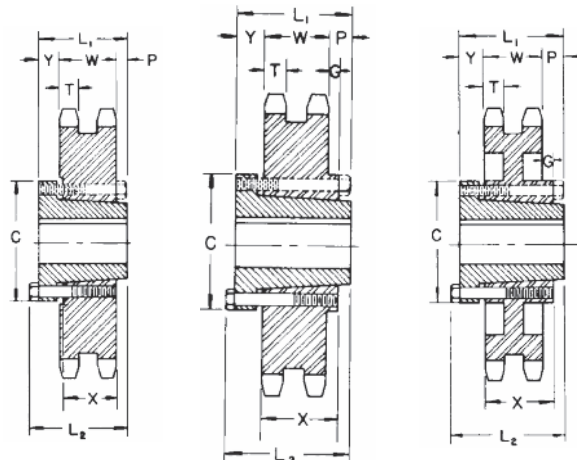
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

NOTE: Double 60 stock sprockets with 25 teeth or less have hardened teeth. As indicated by H suffix.



TYPE B

TYPE C



QD — TYPE C₁

QD — TYPE C₂

QD — TYPE C₄

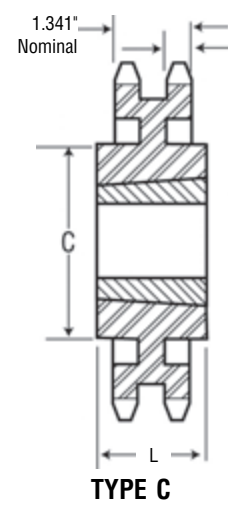
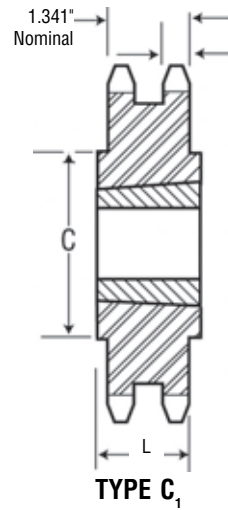
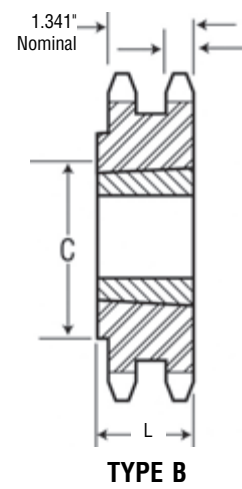
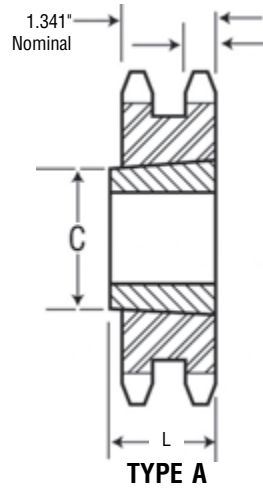
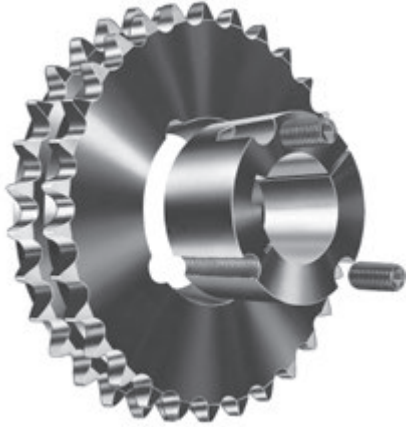
Alteration Charges

See current discount sheet for alteration charges.

Double - Type QD

No. Teeth	Catalog Number	Bush-ing	Diameters		Type	Max. Bore	Dimensions									Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter			L ₁	L ₂	C	Y	P	G	X	T	W	With Hub	Rim Only
14	D60SH14H	SH	3.740	3.371	B★★	1 1/2	1 3/32	1 3/32	2 1/16	1/2	-	-	-	0.444	1.341	2.50	1.50
22	D60SDS22H	SDS	5.670	5.270	B★	2	1 17/32	1 1/2	3 3/16	-	-	-	3/4	0.444	1.341	5.44	4.44
36	D60SF36	SF	9.020	8.605	C1	2 5/16	2	2 1/4	4 1/2	3/4	-	-	1 1/4	0.444	1.341	19.26	16.26
42	D60E42	E	10.460	10.036	C2	3 1/2	2 1/2	2 5/16	6	7/8	1 1/32	1/2	1 1/2	0.444	1.341	34.04	24.04
45	D60E45	E	11.180	10.752	C2	3 1/2	2 1/2	2 5/16	6	7/8	1 1/32	1/2	1 1/2	0.444	1.341	38.26	28.36
52	D60E52	E	12.850	12.422	C2	3 1/2	2 1/2	2 5/16	6	7/8	1 1/32	1/2	1 1/2	0.444	1.341	49.52	39.52
60	D60E60	E	14.760	14.331	C2	3 1/2	2 1/2	2 5/16	6	7/8	1 1/32	1/2	1 1/2	0.444	1.341	63.39	53.74
68	D60E68	E	16.670	16.240	C4	3 1/2	2 1/2	2 5/16	6	7/8	1 1/32	1/2	1 1/2	0.444	1.341	54.32	44.32
76	D60E76	E	18.580	18.149	C4	3 1/2	2 1/2	2 5/16	6	7/8	1 1/32	1/2	1 1/2	0.444	1.341	61.48	51.48
95	D60E95	E	23.120	22.683	C4	3 1/2	2 1/2	2 5/16	6	7/8	1 1/32	1/2	1 1/2	0.444	1.341	82.96	72.96

★★ Not illustrated. Dimensions listed correspond approximately to illustrations shown.



Double - Taper Bushed

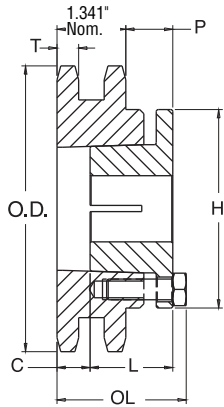
No. Teeth	Catalog Number	Bushing	Diameters		Max. Bore	Dimensions			Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter		L	C	Type	Rim Only	Bushing Only
13	D60TB13H	1215	3.493	3.134	1/4	1 1/2	2 1/4	B	1.2	1.6
14	D60TB14H	1215	3.736	3.371	1/4	1 1/2	2 1/2	B	1.6	1.7
15	D60TB15H	1615	3.979	3.607	1/4	1 1/2	2 5/8	B	1.3	1.8
16	D60TB16H	1615	4.221	3.844	1/4	1 1/2	3	B	2.2	2.3
17	D60TB17H	1615	4.462	4.082	1/4	1 1/2	3 1/4	B	2.5	2.8
18	D60ATB18H	2012	4.704	4.319	2	1 1/2	—	A	3.0	2.4
19	D60ATB19H	2012	4.945	4.557	2	1 1/2	—	A	3.5	2.9
20	D60TB20H	2517	5.185	4.794	2 1/2	1 1/2	3 3/4	B	4.0	2.9
21	D60TB21H	2517	5.426	5.032	2 1/2	1 1/2	4 1/8	B	5.0	3.8
25	D60TB25H	2517	6.387	4.984	2 1/2	1 1/2	5 1/2	B	7.5	7.4
30	D60TB30	2517	7.586	7.175	2 1/2	1 1/2	6 1/2	B	13.5	13.3
36	D60CTB36	2517	9.022	8.605	2 1/2	1 1/2	4 1/4	C 1	17.5	17.4
42	D60CTB42	2517	10.458	10.036	2 1/2	1 1/2	4 1/4	C 1	25.5	25.0
45	D60CTB45	2517	11.176	10.752	2 1/2	1 1/2	4 1/4	C 1	29.5	29.3
52	D60CTB52	2517	12.849	12.422	2 1/2	1 1/2	4 1/4	C 1	41.0	40.3
60	D60CTB60	2517	14.761	14.330	2 1/2	1 1/2	4 1/4	C	32.5	33.5
68	D60CTB68	2517	16.672	16.240	2 1/2	1 1/2	4 1/4	C	36.5	43.2
76	D60CTB76	3020	18.583	18.149	3	2	5 1/4	C	42.5	47.8
95	D60CTB95	3020	23.121	22.684	3	2	5 1/4	C	48.5	69.8

NOTE: Double 60 stock sprockets with 25 teeth or less have hardened teeth.

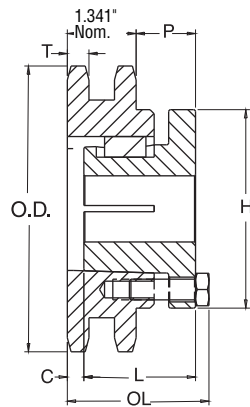
No. 60-2

3/4" Pitch

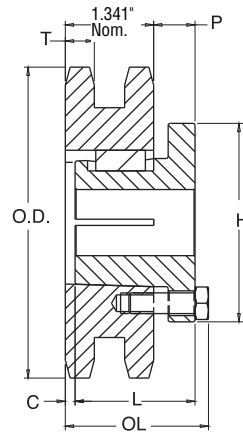
MST® Sprockets



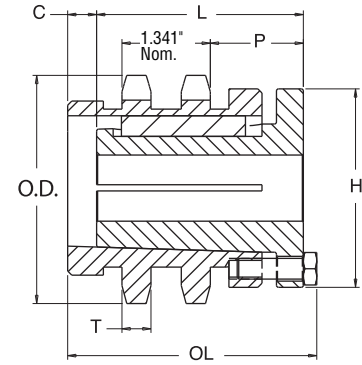
TYPE 11



TYPE 12



TYPE 13



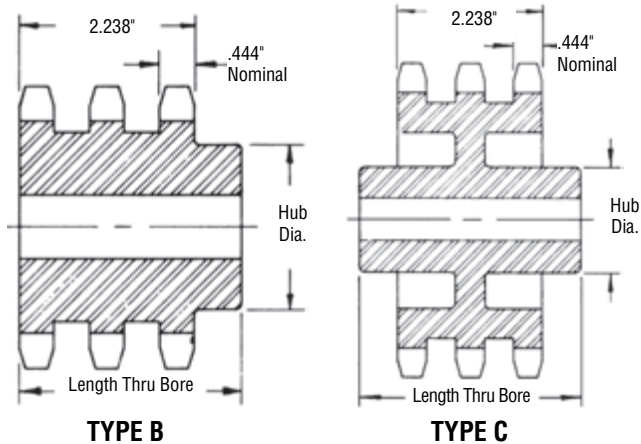
TYPE 16

Double - MST® Sprockets

No. Teeth	Catalog Number	Bushing	Diameters		Type	Max. Bore	Dimensions						Weight Lbs. (Approx.)	
			Outside Dia.	Pitch Dia.			OL	L	C	H	P	T(nom)	With Hub	Rim Only
13	D60P13H	P1	3.490	3.134	16	1-3/4	3-13/16	1-15/16	1 5/8	3	1-13/32	0.444	3.8	2.5
14	D60P14H	P1	3.740	3.371	12	1-3/4	3	1-15/16	13/16	3	1-13/32	0.444	3.6	2.3
15	D60P15H	P1	3.980	3.607	12	1-3/4	3	1-15/16	13/16	3	1-13/32	0.444	4.0	2.7
16	D60P16H	P1	4.220	3.844	13	1-3/4	2-7/32	1-15/16	1/32	3	5/8	0.444	3.7	2.4
17	D60P17H	P1	4.460	4.082	13	1-3/4	2-7/32	1-15/16	1/32	3	5/8	0.444	4.1	2.8
18	D60P18H	P1	4.700	4.319	13	1-3/4	2-7/32	1-15/16	1/32	3	5/8	0.444	4.7	3.4
19	D60P19H	P1	4.950	4.557	13	1-3/4	2-7/32	1-15/16	1/32	3	5/8	0.444	5.3	4.0
20	D60P20H	P1	5.190	4.794	13	1-3/4	2-7/32	1-15/16	1/32	3	5/8	0.444	6.0	4.7
21	D60Q21H	Q1	5.430	5.032	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-5/32	0.444	8.3	4.8
22	D60Q22H	Q1	5.670	5.270	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-5/32	0.444	9.1	5.6
23	D60Q23H	Q1	5.910	5.508	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-5/32	0.444	9.8	6.3
24	D60Q24H	Q1	6.150	5.746	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-5/32	0.444	10.5	7.0
25	D60Q25H	Q1	6.390	5.984	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-5/32	0.444	11.4	7.9
26	D60Q26H	Q1	6.630	6.222	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-5/32	0.444	12.3	8.8
27	D60Q27H	Q1	6.870	6.460	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-5/32	0.444	13.1	9.6
28	D60Q28H	Q1	7.110	6.699	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-5/32	0.444	14.0	10.5
30	D60Q30H	Q1	7.590	7.175	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-5/32	0.444	15.8	12.3
32	D60Q32H	Q1	8.070	7.652	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-5/32	0.444	17.8	14.3
35	D60Q35H	Q1	8.780	8.367	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-5/32	0.444	21.2	17.7
36	D60Q36H	Q1	9.020	8.605	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-5/32	0.444	21.9	18.4
40	D60Q40H	Q1	9.980	9.559	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-5/32	0.444	27.4	23.9
42	D60Q42	Q1	10.460	10.036	12	2-11/16	2-25/32	2-1/2	0	4-1/8	1-5/32	0.444	29.8	26.3
42	D60R42	R1	10.460	10.036	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-17/32	0.444	33.2	25.7
45	D60R45	R1	11.180	10.752	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-17/32	0.444	37.7	30.2
48	D60R48	R1	11.890	11.467	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-17/32	0.444	42.6	35.1
52	D60R52	R1	12.850	12.422	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-17/32	0.444	49.3	41.8
54	D60R54	R1	13.330	12.899	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-17/32	0.444	52.6	45.1
60	D60R60	R1	14.760	14.331	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-17/32	0.444	62.3	54.8
68	D60R68	R1	16.670	16.240	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-17/32	0.444	81.3	73.8
72	D60R72	R1	17.630	17.194	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-17/32	0.444	89.3	81.8
76	D60R76	R1	18.580	18.149	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-17/32	0.444	100.5	93.0
84	D60R84	R1	20.490	20.058	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-17/32	0.444	118.5	111.0
95	D60R95	R1	23.120	22.683	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-17/32	0.444	155.5	148.0
96	D60R96	R1	23.360	22.922	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-17/32	0.444	162.5	155.0

Sprockets with "H" suffix have hardened teeth.

Triple - Type B & C



No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)
				Stock	Rec. Max.	Dia.	Length Thru	
11	E60B11H	3.000	B	1	1 1/4	1 3/4	3	2.5
12	E60B12H	3.250	B	1	1 1/2	2 1/4	3	3.3
13	E60B13H	3.490	B	1	1 1/2	2 1/4	3	3.9
14	E60B14H	3.740	B	1	1 1/2	2 1/2	3	4.5
15	E60B15H	3.980	B	1	1 1/2	2 3/4	3	5.4
16	E60B16H	4.220	B	1	2	3	3	6.5
17	E60B17H	4.460	B	1	2 1/4	3 1/4	3	7.7
18	E60B18H	4.700	B	1	2 1/2	3 1/2	3	8.5
19	E60B19H	4.950	B	1	2 1/2	3 3/4	3	10.0
20	E60B20H	5.190	B	1	2 1/2	3 3/4	3	11.2
21	E60B21H	5.430	B	1	2 3/4	4 1/4	3	12.5
22	E60B22H	5.670	B	1	2 3/4	4 1/4	3	13.2
23	E60B23H	5.910	B	1	2 3/4	4 1/4	3	14.6
24	E60B24H	6.150	B	1	2 3/4	4 1/4	3	15.8
25	E60B25H	6.390	B	1	2 3/4	4 1/4	3	17.0
26	E60B26	6.630	B	1	2 3/4	4 1/4	3	18.6
30	E60B30	7.590	B	1	2 3/4	4 1/4	3	23.2
35	E60B35	8.780	B	1 1/4	3	4 1/2	3 1/4	34.5
36	E60B36	9.020	B	1 1/4	3	4 1/2	3 1/4	37.0
42	E60B42	10.460	B	1 1/4	3 1/4	4 3/4	3 3/4	49.0
45	E60B45	11.180	B	1 1/4	3 1/4	4 3/4	3 3/4	57.0
52	E60C52	12.850	C	1 1/2	3 1/2	4 3/4	3 1/2	73.0
60	E60C60	14.760	C	1 1/2	3 1/2	4 3/4	3 1/2	63.0
68	E60C68	16.670	C	1 1/2	3 1/2	5	3 1/2	73.0
72	E60C72	17.630	C	1 1/2	3 1/2	5	3 1/2	85.0
76	E60C76	18.580	C	1 1/2	3 1/2	5 1/2	3 1/2	82.0
95	E60C95	23.120	C	1 1/2	3 1/2	5 1/2	4	105.0

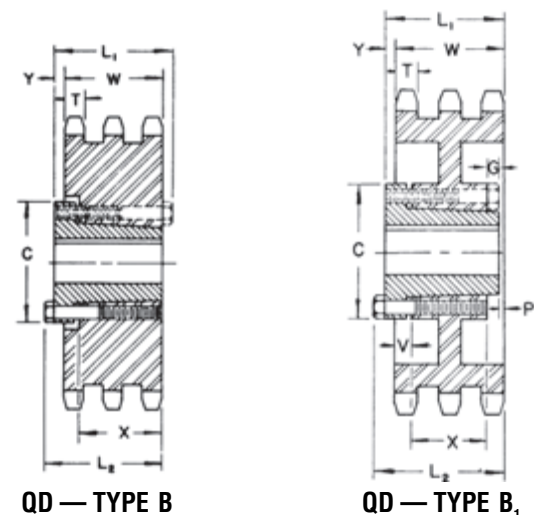
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

NOTE: Triple 60 stock sprockets with 25 teeth or less have hardened teeth. As indicated by H suffix.



Alteration Charges

See current discount sheet for alteration charges.



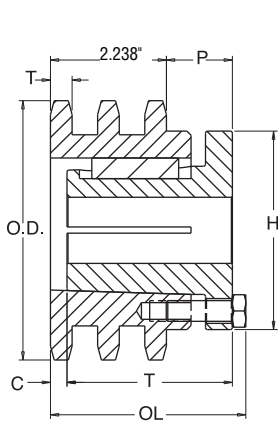
Triple - Type QD

No. Teeth	Catalog Number	Bushing	Diameters		Type	Max. Bore	Dimensions										Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter			L ₁	L ₂	C	Y	P	G	V	X	T	W	With Hub	Rim Only
36	E60E36	E	9.020	8.605	B	3 1/2	2 5/8	2 5/16	6	1/4	1/8	—	—	1 1/8	0.444	2.238	49.0	37.0
42	E60E42	E	10.460	10.036	B	3 3/4	2 5/8	2 5/16	6	1/4	1/8	—	—	1 1/8	0.444	2.238	62.0	50.0
52	E60E52	E	12.850	12.422	B	3 1/2	2 5/8	2 5/16	6	1/4	1/8	—	—	1 1/8	0.444	2.238	80.0	68.0
68	E60E68	E	16.670	16.240	B1	3 1/2	2 3/4	3 3/4	6	3/8	3/8	1/8	3/8	1 1/8	0.444	2.238	83.0	71.0
76	E60E76	E	18.580	18.149	B1	3 3/4	2 3/4	3 3/4	6	3/8	3/8	1/8	3/8	1 1/8	0.444	2.238	99.0	87.0
95	E60E95	E	23.120	22.683	B1	3 1/2	2 3/4	3 3/4	6	3/8	3/8	1/8	3/8	1 1/8	0.444	2.238	129.0	117.0

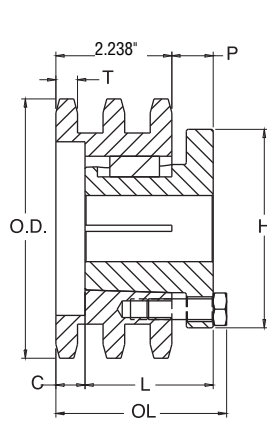
No. 60-3

3/4" Pitch

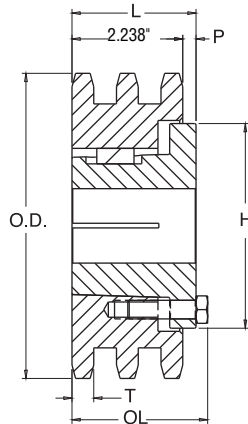
MST® Sprockets



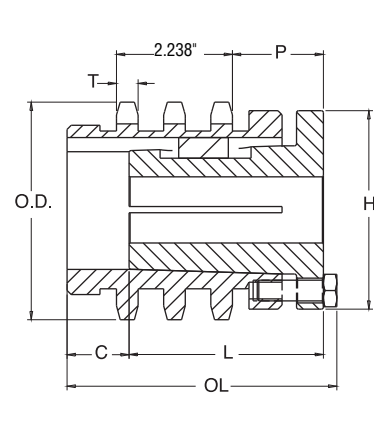
TYPE 22



TYPE 24



TYPE 25



TYPE 27

Triple - MST® Sprockets

No. Teeth	Catalog Number	Bush-ing	Diameters		Type	Max. Bore	Dimensions						Weight Lbs. (Approx.)	
			Outside Dia.	Pitch Dia.			OL	L	C	H	P	T(nom)	With Hub	Rim Only
13	E60P13H	P2	3.490	3.134	27	1-3/4	4-23/32	2-15/16	1 17/32	3	1-13/32	0.444	4.8	3.3
14	E60P14H	P2	3.740	3.371	22	1-3/4	3-29/32	2-15/16	1-23/32	3	1-13/32	0.444	4.8	3.3
15	E60P15H	P2	3.980	3.607	22	1-3/4	3-29/32	2-15/16	1-23/32	3	1-13/32	0.444	5.5	4.0
16	E60P16H	P1	4.220	3.844	24	1-3/4	3 1/8	1-15/16	15/16	3	5/8	0.444	4.7	3.4
17	E60Q17H	Q1	4.460	4.082	27	2-11/16	5	3-1/2	13/32	4-1/8	1-21/32	0.444	8.1	4.6
18	E60Q18H	Q1	4.700	4.319	22	2-11/16	4-3/16	3-1/2	13/32	4-1/8	1-21/32	0.444	8.5	5.0
19	E60Q19H	Q1	4.950	4.557	22	2-11/16	4-3/16	3-1/2	13/32	4-1/8	1-21/32	0.444	9.4	5.9
20	E60Q20H	Q1	5.190	4.794	22	2-11/16	4-3/16	3-1/2	13/32	4-1/8	1-21/32	0.444	10.5	6.2
21	E60Q21H	Q1	5.430	5.032	24	2-11/16	3-1/4	2-1/2	15/32	4-1/8	3/4	0.444	9.2	6.4
22	E60Q22H	Q1	5.670	5.270	24	2-11/16	3-1/4	2-1/2	15/32	4-1/8	3/4	0.444	10.1	6.6
23	E60Q23H	Q1	5.910	5.508	25	2-11/16	2-25/32	2-1/2	0	4-1/8	1/4	0.444	11.2	7.7
24	E60Q24H	Q1	6.150	5.746	25	2-11/16	2-25/32	2-1/2	0	4-1/8	1/4	0.444	12.3	8.8
25	E60Q25H	Q1	6.390	5.984	25	2-11/16	2-25/32	2-1/2	0	4-1/8	1/4	0.444	13.5	10.0
26	E60Q26H	Q1	6.630	6.222	25	2-11/16	2-25/32	2-1/2	0	4-1/8	1/4	0.444	14.6	11.1
27	E60Q27H	Q1	6.870	6.460	25	2-11/16	2-25/32	2-1/2	0	4-1/8	1/4	0.444	15.9	12.4
28	E60Q28H	Q1	7.110	6.699	25	2-11/16	2-25/32	2-1/2	0	4-1/8	1/4	0.444	17.1	13.6
30	E60R30H	R1	7.590	7.175	25	3-3/4	3-5/32	2-7/8	0	5-3/8	5/8	0.444	21.5	14.0
32	E60R32H	R1	8.070	7.652	25	3-3/4	3-5/32	2-7/8	0	5-3/8	5/8	0.444	26.5	19.0
35	E60R35H	R1	8.780	8.367	25	3-3/4	3-5/32	2-7/8	0	5-3/8	5/8	0.444	29.5	22.0
36	E60R36H	R1	9.020	8.605	25	3-3/4	3-5/32	2-7/8	0	5-3/8	5/8	0.444	30.9	23.4
40	E60R40	R1	9.980	9.559	25	3-3/4	3-5/32	2-7/8	0	5-3/8	5/8	0.444	38.8	31.3
42	E60R42	R1	10.460	10.036	25	3-3/4	3-5/32	2-7/8	0	5-3/8	5/8	0.444	42.8	35.3
52	E60R52	R1	12.850	12.422	25	3-3/4	3-5/32	2-7/8	0	5-3/8	5/8	0.444	70.7	63.2

Sprockets with "H" suffix have hardened teeth.

No. 80 1" Pitch

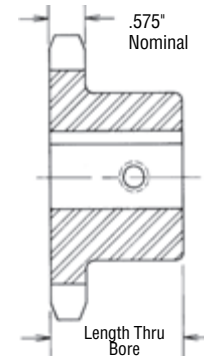
All Steel Stock Sprockets



Single Type BS Winch — 1 Setscrew

No. Teeth	Catalog Number	Outside Diameter	Length Thru Bore	Weight Lbs. (Approx.)	Stock Finished Bores Includes Keyway (see Footnote) and Set Screw at 90° from Keyway
10	80BS10W	3.680	1"	1.7	1"
11	80BS11W	4.010	1"	1.8	1"
12	80BS12W	4.330	1"	3.0	1"
15	80BS15W	5.300	1"	5.2	1"
18	80BS18W	6.270	1 1/2"	7.8	1 1/4" — 1 1/2"

NOTE: KEYWAY IS ON CENTER LINE OF TOOTH.

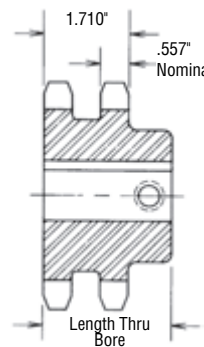


SINGLE TYPE BS

Double Type BS Winch (Hardened Teeth) — 1 Setscrew

No. Teeth	Catalog Number	Outside Diameter	Length Thru Bore	Weight Lbs. (Approx.)	Stock Finished Bores Includes Keyway (see Footnote) and Set Screw at 90° from Keyway
12	D80BS12HW	3.680	2"	5.2	1 1/4" — 1 1/2" — 1 3/4"
15	D80BS15HW	5.300	2"	9.2	1 1/4" — 1 1/2" — 1 3/4"
18	D80BS18HW	6.270	2"	13.5	1 1/2" — 1 3/4" — 2"
20	D80BS20HW	6.910	2"	16.2	1 1/2" — 1 3/4" — 2"
24	D80BS24HW	8.200	2"	23.2	1 1/2" — 2"

NOTE: KEYWAY IS ON CENTER LINE OF TOOTH.



DOUBLE TYPE BS

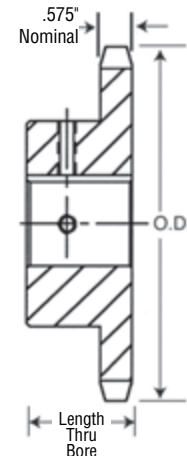
Footnote: 1 1/4" bore has a 3/16" x 5/32" keyway
 1 1/2" bore has a 3/16" x 3/32" keyway
 1 3/4" bore has a 3/8" x 3/16" keyway
 2" bore has a 3/8" x 3/16" keyway



No. 80 — Hardened Teeth — 2 Setscrews

No. Teeth	Catalog Number	Outside Diameter	Length Thru Bore	Weight Lbs. (Approx.)	Stock Finished Bores Includes Keyway and 2 Setscrews
9	80BS9HT	3.350	1"	1.6	1 — 1 1/8" — 1 1/4" — 1 1/2"
10	80BS10HT	3.368	1"	1.7	1 — 1 1/8" — 1 1/4" — 1 1/2"
11	80BS11HT	4.010	1"	1.8	1 — 1 1/8" — 1 1/4" — 1 1/2" — 1 3/4" — 1 1/2" — 1 3/4" — 1 1/2" — 1 3/4"
12	80BS12HT	4.330	1"	3.0	1 — 1 1/8" — 1 1/4" — 1 1/2" — 1 3/4" — 1 1/2" — 1 3/4" — 1 1/2" — 1 3/4" — 1 1/2" — 1 3/4"
13	80BS13HT	4.660	1 1/2"	3.5	1 — 1 1/8" — 1 1/4" — 1 1/2" — 1 3/4" — 1 1/2" — 1 3/4" — 1 1/2" — 1 3/4" — 1 1/2" — 1 3/4" — 1 1/2" — 1 3/4"
14	80BS14HT	4.980	1 1/2"	4.1	1 — 1 1/8" — 1 1/4" — 1 1/2" — 1 3/4" — 1 1/2" — 1 3/4" — 1 1/2" — 1 3/4" — 1 1/2" — 1 3/4" — 1 1/2" — 1 3/4"
15	80BS15HT	5.300	1 1/2"	5.2	1 — 1 1/8" — 1 1/4" — 1 1/2" — 1 3/4" — 1 1/2" — 1 3/4" — 1 1/2" — 1 3/4" — 1 1/2" — 1 3/4" — 1 1/2" — 1 3/4"
16	80BS16HT	5.630	1 1/2"	6.1	1 — 1 1/8" — 1 1/4" — 1 1/2" — 1 3/4" — 1 1/2" — 1 3/4" — 1 1/2" — 1 3/4" — 1 1/2" — 1 3/4" — 1 1/2" — 1 3/4"
17	80BS17HT	5.950	1 1/2"	7.0	1 — 1 1/8" — 1 1/4" — 1 1/2" — 1 3/4" — 1 1/2" — 1 3/4" — 1 1/2" — 1 3/4" — 1 1/2" — 1 3/4" — 1 1/2" — 1 3/4"
18	80BS18HT	6.270	1 1/2"	7.8	1 — 1 1/8" — 1 1/4" — 1 1/2" — 1 3/4" — 1 1/2" — 1 3/4" — 1 1/2" — 1 3/4" — 1 1/2" — 1 3/4" — 1 1/2" — 1 3/4"
19	80BS19HT	6.590	1 1/2"	8.3	1 — 1 1/8" — 1 1/4" — 1 1/2" — 1 3/4" — 1 1/2" — 1 3/4" — 1 1/2" — 1 3/4" — 1 1/2" — 1 3/4" — 1 1/2" — 1 3/4"
20	80BS20HT	6.910	1 1/2"	9.5	1 — 1 1/8" — 1 1/4" — 1 1/2" — 1 3/4" — 1 1/2" — 1 3/4" — 1 1/2" — 1 3/4" — 1 1/2" — 1 3/4" — 1 1/2" — 1 3/4"

NOTE: KEYWAY IS ON CENTER LINE OF TOOTH



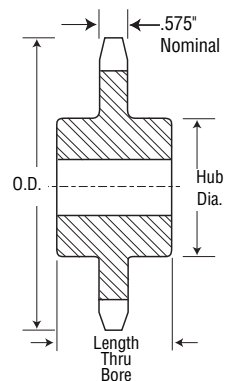
TYPE BS

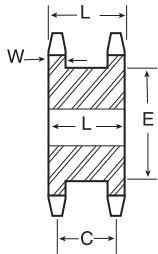
Martin stock hardened teeth sprockets afford longer chain and sprocket life. Hardened teeth on the smaller sprocket of a roller chain drive are recommended if the drive ratio is four to one or greater or if the smaller sprocket has 24 teeth or less and is running at a speed of over 600 R.P.M.

Single - Type C — Steel

No. Teeth	Catalog Number	Outside Diameter	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)
			Stock	Rec. Max.	Diameter	Length	
11	80C11	4.010	1	1 1/8"	2 3/8"★	2 1/2"	3.87
12	80C12	4.330	1	1 1/8"	3 1/8"★	2 1/2"	4.31
13	80C13	4.660	1	2"	3 3/4"	2 1/2"	5.32
14	80C14	4.980	1	2 1/4"	3 1/2"	2 1/2"	6.44
15	80C15	5.300	1	2 1/2"	3 3/8"	2 1/2"	7.75
16	80C16	5.630	1	2 3/4"	4"	2 1/2"	8.81

★ Has recessed groove in hub for chain clearance.

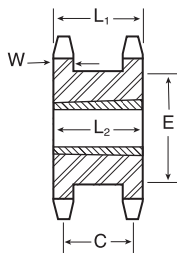




TYPE A

Double Single - Type A — Steel

No. Teeth	Catalog Number	Diameters		Type	Min. Bore	Max. Bore	Dimensions				Wt. (Approx.)
		Outside Diameter	Pitch Diameter				L	C	E	w Nom.	
13	DS80A13	4.660	4.179	A	1	2	2 ³ / ₁₆	1 ¹ / ₂	3 ³ / ₄	0.575	6.5
14	DS80A14	4.980	4.494	A	1	2 ¹ / ₂	2 ³ / ₁₆	1 ¹ / ₂	3 ¹ / ₂	0.575	7.7
15	DS80A15	5.300	4.810	A	1	2 ³ / ₁₆	2 ³ / ₁₆	1 ¹ / ₂	3 ¹ / ₁₆	0.575	9.1
16	DS80A16	5.630	5.126	A	1	2 ¹ / ₂	2 ³ / ₁₆	1 ¹ / ₂	4	0.575	9.5
17	DS80A17	5.950	5.442	A	1	2 ³ / ₁₆	2 ³ / ₁₆	1 ¹ / ₂	4 ¹ / ₁₆	0.575	10.8
18	DS80A18	6.270	5.759	A	1	3 ¹ / ₂	2 ³ / ₁₆	1 ¹ / ₂	4 ⁹ / ₁₆	0.575	12.1
19	DS80A19	6.590	6.076	A	1	3 ³ / ₄	2 ³ / ₁₆	1 ¹ / ₂	4 ⁵ / ₁₆	0.575	12.8
20	DS80A20	6.910	6.392	A	1	3 ¹ / ₂	2 ³ / ₁₆	1 ¹ / ₂	5 ¹ / ₂	0.575	14.0
21	DS80A21	7.240	6.710	A	1	3 ³ / ₄	2 ³ / ₁₆	1 ¹ / ₂	5 ³ / ₂	0.575	16.5
22	DS80A22	7.560	7.027	A	1	3 ¹ / ₂	2 ³ / ₁₆	1 ¹ / ₂	5 ⁹ / ₁₆	0.575	18.4
23	DS80A23	7.880	7.344	A	1	3 ³ / ₄	2 ³ / ₁₆	1 ¹ / ₂	6 ¹ / ₁₆	0.575	20.5

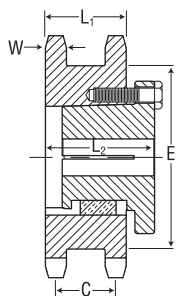


**TAPER BUSH
TYPE A**

Double Single - Taper Bushed — Steel

No. Teeth	Catalog Number	Bushing Size	Diameters		Min. Bore	Max. Bore	Type	Dimensions				Wt. Rim Only	
			Outside Diameter	Pitch Diameter				L ₁	C	E	L ₂		w Nom.
17	DS80ATB17H	2517	5.950	5.442	1/2	2 1/2	A	2 3/16	1 1/2	4 3/16	1 1/4	0.575	7.6
18	DS80ATB18H	2517	6.270	5.759	1/2	2 1/2	A	2 3/16	1 1/2	4 1/16	1 1/4	0.575	8.7
19	DS80ATB19H	3020	6.590	6.076	5/16	3	A	2 3/16	1 1/2	4 5/16	2	0.575	9.7
20	DS80ATB20H	3020	6.910	6.392	5/16	3	A	2 3/16	1 1/2	5 1/2	2	0.575	10.0
21	DS80ATB21H	3020	7.240	6.710	5/16	3	A	2 3/16	1 1/2	5 3/2	2	0.575	12.0
22	DS80ATB22H	3020	7.560	7.027	5/16	3	A	2 3/16	1 1/2	5 9/16	2	0.575	13.0
23	DS80ATB23H	3020	7.880	7.344	5/16	3	A	2 3/16	1 1/2	6 1/16	2	0.575	14.5

Sprockets with "H" suffix have hardened teeth.



**MST
TYPE B**

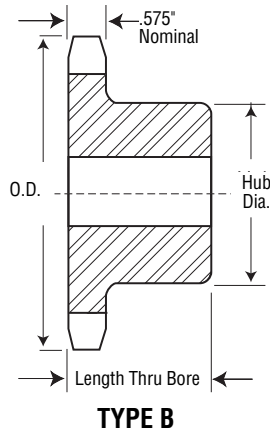
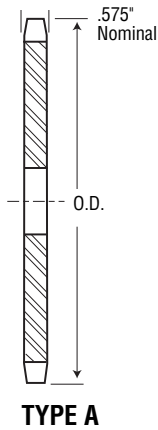
Double Single - MST® — Steel

No. Teeth	Catalog Number	Bushing Size	Diameters		Min. Bore	Max. Bore	Type	Dimensions				Wt. Rim Only	
			Outside Diameter	Pitch Diameter				L ₁	C	E	L ₂		w Nom.
17	DS80Q17H	Q1	5.950	5.442	3/4	2 1/16	B	2 3/16	1 1/2	4 3/16	3 1/16	0.575	7.2
19	DS80Q19H	Q1	6.590	6.076	3/4	2 1/16	B	2 3/16	1 1/2	4 9/16	3 1/16	0.575	10.5
20	DS80Q20H	Q1	6.910	6.392	3/4	2 1/16	B	2 3/16	1 1/2	5 1/2	3 1/16	0.575	12.2
21	DS80R21H	R1	7.240	6.710	1 1/2	3 3/4	B	2 3/16	1 1/2	5 3/2	3 3/16	0.575	12.8
23	DS80R23H	R1	7.880	7.344	1 1/2	3 3/4	B	2 3/16	1 1/2	6 1/16	3 3/16	0.575	13.3

Sprockets with "H" suffix have hardened teeth.

No. 80 1" Pitch

Stainless Steel Stock Sprockets



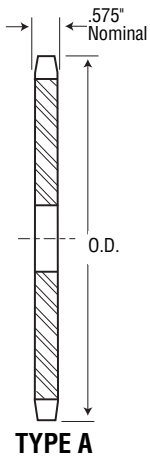
Single - Type B

Single - Type A

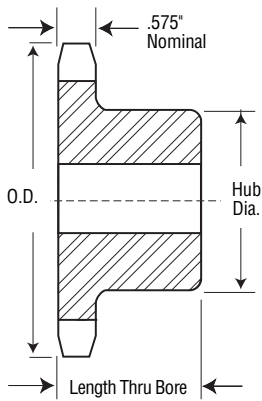
No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs (Approx.)	Type	Catalog Number	Stock Bore	Weight Lbs. (Approx.)
				Stock	Rec. Max.	Dia.	Length Thru					
10	80B10SS	3.680	B	1	1½	2 ⁹ / ₁₆ ★	1 ¹ / ₈	2.14	—	—	—	—
11	80B11SS	4.010	B	1	1 ¹ / ₂	2 ³ / ₁₆ ★	1 ¹ / ₈	2.72	—	—	—	—
12	80B12SS	4.330	B	1	1 ¹ / ₂	3 ¹ / ₁₆ ★	1 ¹ / ₈	3.42	A	80A12SS	¹⁵ / ₁₆	1.50
13	80B13SS	4.660	B	1	2	3	1 ¹ / ₂	3.53	A	80A13SS	¹⁵ / ₁₆	1.80
14	80B14SS	4.980	B	1	2 ¹ / ₄	3 ¹ / ₄	1 ¹ / ₂	4.19	A	80A14SS	¹⁵ / ₁₆	2.20
15	80B15SS	5.300	B	1	2 ¹ / ₂	3 ³ / ₁₆	1 ¹ / ₂	5.38	A	80A15SS	¹⁵ / ₁₆	2.50
16	80B16SS	5.630	B	1	2 ³ / ₄	4	1 ¹ / ₂	6.07	A	80A16SS	¹⁵ / ₁₆	2.90
17	80B17SS	5.950	B	1	2 ³ / ₄	4	1 ¹ / ₂	6.45	A	80A17SS	¹⁵ / ₁₆	3.30
18	80B18SS	6.270	B	1	2 ³ / ₄	4 ¹ / ₄	1 ¹ / ₂	7.34	A	80A18SS	¹⁵ / ₁₆	3.70
19	80B19SS	6.590	B	1	2 ³ / ₄	4 ¹ / ₂	1 ¹ / ₂	7.80	A	80A19SS	¹⁵ / ₁₆	4.10
20	80B20SS	6.910	B	1	2 ³ / ₄	4 ¹ / ₂	1 ¹ / ₂	8.22	A	80A20SS	¹⁵ / ₁₆	4.70
21	80B21SS	7.240	B	1	2 ³ / ₄	4 ¹ / ₂	1 ¹ / ₂	9.40	A	80A21SS	¹⁵ / ₁₆	5.10
22	80B22SS	7.560	B	1	2 ³ / ₄	4 ¹ / ₂	1 ¹ / ₂	10.00	A	80A22SS	¹⁵ / ₁₆	5.61
23	80B23SS	7.880	B	1	2 ³ / ₄	4 ¹ / ₂	1 ¹ / ₂	10.70	A	80A23SS	¹⁵ / ₁₆	6.10
24	80B24SS	8.200	B	1	2 ³ / ₄	4 ¹ / ₂	1 ¹ / ₂	11.36	A	80A24SS	¹⁵ / ₁₆	6.73
25	80B25SS	8.520	B	1	2 ³ / ₄	4 ¹ / ₂	1 ¹ / ₂	11.90	A	80A25SS	¹⁵ / ₁₆	7.26
26	80B26SS	8.840	B	1 ¹ / ₄	3 ¹ / ₄	4 ¹ / ₂	2	14.57	A	80A26SS	1 ¹ / ₁₆	6.73
30	80B30SS	10.110	B	1 ¹ / ₁₆	3 ¹ / ₄	4 ¹ / ₂	2	17.50	A	80A30SS	1 ¹ / ₁₆	10.53
35	80B35SS	11.710	B	1 ¹ / ₁₆	3 ¹ / ₄	4 ¹ / ₂	2	21.48	A	80A35SS	1 ¹ / ₁₆	13.07
40	80B40SS	13.310	B	1 ¹ / ₁₆	3 ¹ / ₄	4 ¹ / ₂	2	26.00	A	80A40SS	1 ¹ / ₁₆	19.22

★ Has recessed groove in hub for chain clearance.

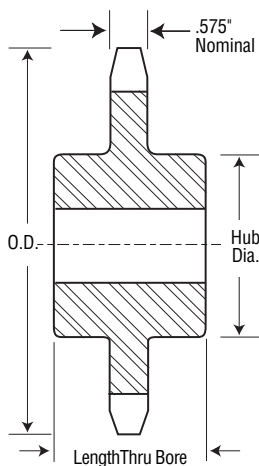
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.



TYPE A



TYPE B



TYPE C

Single - Type B & C

Single - Type A

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs (Approx.)	Type	Catalog Number	Stock Bore	Weight Lbs. (Approx.)
				Stock	Rec. Max.	Dia.	Length Thru					
8	80B8	3.010	B	1	1	1 ¹ / ₁₆ ★★	1 ¹ / ₁₆	1.4	-	-	-	-
9	80B9	3.350	B	1	1 ¹ / ₁₆	2 ¹ / ₁₆ ★★	1 ¹ / ₁₆	1.6	A	80A9	1 ¹ / ₁₆	.8
10	80B10	3.680	B	1	1 ¹ / ₂	2 ¹ / ₁₆ ★★	1 ¹ / ₁₆	2.2	A	80A10	1 ¹ / ₁₆	1.0
11	80B11	4.010	B	1	1 ¹ / ₂	2 ¹ / ₁₆ ★★	1 ¹ / ₁₆	3.2	A	80A11	1 ¹ / ₁₆	1.3
12	80B12	4.330	B	1	1 ¹ / ₂	3 ¹ / ₁₆ ★★	1 ¹ / ₁₆	3.4	A	80A12	1 ¹ / ₁₆	1.5
13	80B13	4.660	B	1	2	3	1 ¹ / ₁₆	3.5	A	80A13	1 ¹ / ₁₆	1.8
14	80B14	4.980	B	1	2 ¹ / ₂	3 ¹ / ₁₆	1 ¹ / ₁₆	4.1	A	80A14	1 ¹ / ₁₆	2.2
15	80B15	5.300	B	1	2 ¹ / ₂	3 ¹ / ₁₆	1 ¹ / ₁₆	5.3	A	80A15	1 ¹ / ₁₆	2.5
16	80B16	5.630	B	1	2 ³ / ₄	4	1 ¹ / ₂	5.9	A	80A16	1 ¹ / ₁₆	2.9
17	80B17	5.950	B	1	2 ³ / ₄	4	1 ¹ / ₂	6.6	A	80A17	1 ¹ / ₁₆	3.3
18	80B18	6.270	B	1	2 ³ / ₄	4 ¹ / ₁₆	1 ¹ / ₂	7.3	A	80A18	1 ¹ / ₁₆	3.7
19	80B19	6.590	B	1	2 ³ / ₄	4 ¹ / ₁₆	1 ¹ / ₂	7.8	A	80A19	1 ¹ / ₁₆	4.1
20	80B20	6.910	B	1	2 ³ / ₄	4 ¹ / ₁₆	1 ¹ / ₂	8.4	A	80A20	1 ¹ / ₁₆	4.7
21	80B21	7.240	B	1	2 ³ / ₄	4 ¹ / ₁₆	1 ¹ / ₂	9.4	A	80A21	1 ¹ / ₁₆	4.9
22	80B22	7.560	B	1	2 ³ / ₄	4 ¹ / ₁₆	1 ¹ / ₂	10.0	A	80A22	1 ¹ / ₁₆	5.5
23	80B23	7.880	B	1	2 ³ / ₄	4 ¹ / ₁₆	1 ¹ / ₂	10.7	A	80A23	1 ¹ / ₁₆	6.3
24	80B24	8.200	B	1	2 ³ / ₄	4 ¹ / ₁₆	1 ¹ / ₂	11.3	A	80A24	1 ¹ / ₁₆	6.7
25	80B25	8.520	B	1	2 ³ / ₄	4 ¹ / ₁₆	1 ¹ / ₂	11.9	A	80A25	1 ¹ / ₁₆	7.2
26	80B26	8.840	B	1 ¹ / ₁₆	3 ¹ / ₄	4 ¹ / ₁₆	2	14.3	A	80A26	1 ¹ / ₁₆	7.8
27	80B27	9.160	B	1 ¹ / ₁₆	3 ¹ / ₄	4 ¹ / ₁₆	2	15.4	A	80A27	1 ¹ / ₁₆	8.6
28	80B28	9.480	B	1 ¹ / ₁₆	3 ¹ / ₄	4 ¹ / ₁₆	2	16.0	A	80A28	1 ¹ / ₁₆	9.3
29	80B29	9.800	B	1 ¹ / ₁₆	3 ¹ / ₄	4 ¹ / ₁₆	2	17.1	A	80A29	1 ¹ / ₁₆	9.8
30	80B30	10.110	B	1 ¹ / ₁₆	3 ¹ / ₄	4 ¹ / ₁₆	2	17.4	A	80A30	1 ¹ / ₁₆	10.7
31	80B31	10.430	B	1 ¹ / ₁₆	3 ¹ / ₄	4 ¹ / ₁₆	2	18.7	A	80A31	1 ¹ / ₁₆	11.3
32	80B32	10.750	B	1 ¹ / ₁₆	3 ¹ / ₄	4 ¹ / ₁₆	2	19.5	A	80A32	1 ¹ / ₁₆	12.1
33	80B33	11.070	B	1 ¹ / ₁₆	3 ¹ / ₄	4 ¹ / ₁₆	2	19.6	A	80A33	1 ¹ / ₁₆	13.6
34	80B34	11.390	B	1 ¹ / ₁₆	3 ¹ / ₄	4 ¹ / ₁₆	2	21.3	A	80A34	1 ¹ / ₁₆	14.3
35	80B35	11.710	B	1 ¹ / ₁₆	3 ¹ / ₄	4 ¹ / ₁₆	2	22.1	A	80A35	1 ¹ / ₁₆	14.8
36	80B36	12.030	B	1 ¹ / ₁₆	3 ¹ / ₄	4 ¹ / ₁₆	2	23.1	A	80A36	1 ¹ / ₁₆	16.1
37	80B37	12.350	B	1 ¹ / ₁₆	3 ¹ / ₄	4 ¹ / ₁₆	2	23.8	A	80A37	1 ¹ / ₁₆	16.8
38	80B38	12.670	B	1 ¹ / ₁₆	3 ¹ / ₄	4 ¹ / ₁₆	2	24.7	A	80A38	1 ¹ / ₁₆	17.2
39	80B39	12.990	B	1 ¹ / ₁₆	3 ¹ / ₄	4 ¹ / ₁₆	2	25.6	A	80A39	1 ¹ / ₁₆	17.9
40	80B40	13.310	B	1 ¹ / ₁₆	3 ¹ / ₄	4 ¹ / ₁₆	2	26.7	A	80A40	1 ¹ / ₁₆	18.9
41	80B41	13.630	B	1 ¹ / ₁₆	3 ¹ / ₄	4 ¹ / ₁₆	2	27.8	A	80A41	1 ¹ / ₁₆	21.0
42	80B42	13.940	B	1 ¹ / ₁₆	3 ¹ / ₄	4 ¹ / ₁₆	2	28.7	A	80A42	1 ¹ / ₁₆	21.8
43	80B43	14.260	B	1 ¹ / ₁₆	3 ¹ / ₄	4 ¹ / ₁₆	2	29.4	A	80A43	1 ¹ / ₁₆	23.6
44	80B44	14.580	B	1 ¹ / ₁₆	3 ¹ / ₄	4 ¹ / ₁₆	2	29.9	A	80A44	1 ¹ / ₁₆	24.3
45	80B45	14.900	B	1 ¹ / ₁₆	3 ¹ / ₄	4 ¹ / ₁₆	2	31.4	A	80A45	1 ¹ / ₁₆	25.2
46	80B46	15.220	B	1 ¹ / ₁₆	3 ¹ / ₄	4 ¹ / ₁₆	2	33.1	A	80A46	1 ¹ / ₁₆	26.6
47	80B47	15.540	B	1 ¹ / ₁₆	3 ¹ / ₄	4 ¹ / ₁₆	2	34.0	A	80A47	1 ¹ / ₁₆	26.4
48	80B48	15.860	B	1 ¹ / ₁₆	3 ¹ / ₄	4 ¹ / ₁₆	2	35.5	A	80A48	1 ¹ / ₁₆	27.8
49	80B49	16.180	B	1 ¹ / ₁₆	3 ¹ / ₄	4 ¹ / ₁₆	2	35.8	A	80A49	1 ¹ / ₁₆	28.9
50	80B50	16.500	B	1 ¹ / ₁₆	3 ¹ / ₄	4 ¹ / ₁₆	2	37.3	A	80A50	1 ¹ / ₁₆	30.9
51	80B51	16.810	B	1 ¹ / ₁₆	3 ¹ / ₄	4 ¹ / ₁₆	2	38.6	A	80A51	1 ¹ / ₁₆	32.2
52	80B52	17.130	B	1 ¹ / ₁₆	3 ¹ / ₄	4 ¹ / ₁₆	2	39.4	A	80A52	1 ¹ / ₁₆	33.0
53	80B53	17.450	B	1 ¹ / ₁₆	3 ¹ / ₄	4 ¹ / ₁₆	2	41.3	A	80A53	1 ¹ / ₁₆	34.9
54	80B54	17.770	B	1 ¹ / ₁₆	3 ¹ / ₄	5 ¹ / ₁₆	2	44.7	A	80A54	1 ¹ / ₁₆	36.6
55	80B55	18.090	B	1 ¹ / ₁₆	3 ¹ / ₂	5 ¹ / ₁₆	2	45.6	A	80A55	1 ¹ / ₁₆	37.5
56	80B56	18.410	B	1 ¹ / ₁₆	3 ¹ / ₂	5 ¹ / ₁₆	2	47.5	A	80A56	1 ¹ / ₁₆	39.4
57	80B57	18.730	B	1 ¹ / ₁₆	3 ¹ / ₂	5 ¹ / ₁₆	2	48.5	A	80A57	1 ¹ / ₁₆	40.4
58	80B58	19.040	B	1 ¹ / ₁₆	3 ¹ / ₂	5 ¹ / ₁₆	2	50.5	A	80A58	1 ¹ / ₁₆	41.3
59	80B59	19.360	B	1 ¹ / ₁₆	3 ¹ / ₂	5 ¹ / ₁₆	2	52.1	A	80A59	1 ¹ / ₁₆	42.9
60	80B60	19.680	B	1 ¹ / ₁₆	3 ¹ / ₂	5 ¹ / ₁₆	2	54.5	A	80A60	1 ¹ / ₁₆	45.3
65	80B65	21.270	B	1 ¹ / ₁₆	3 ¹ / ₂	5 ¹ / ₁₆	2	61.8	A	80A65	1 ¹ / ₁₆	52.2
70	80C70	22.870	C	1 ¹ / ₂	4 ¹ / ₁₆	6 ¹ / ₁₆	3 ¹ / ₁₆	75.7	A	80A70	1 ¹ / ₁₆	59.8
72	80C72	23.500	C	1 ¹ / ₂	4 ¹ / ₁₆	6 ¹ / ₁₆	3 ¹ / ₁₆	81.4	A	80A72	1 ¹ / ₁₆	65.7
76	80C76	24.780	C	1 ¹ / ₂	4 ¹ / ₁₆	6 ¹ / ₁₆	3 ¹ / ₁₆	87.8	A	80A76	1 ¹ / ₁₆	70.2
80	80C80	26.050	C	1 ¹ / ₂	4 ¹ / ₁₆	6 ¹ / ₁₆	3 ¹ / ₁₆	89.9	A	80A80	1 ¹ / ₁₆	79.6
84	80C84	27.330	C	1 ¹ / ₂	4 ¹ / ₁₆	6 ¹ / ₁₆	3 ¹ / ₁₆	99.2	A	80A84	1 ¹ / ₁₆	86.1
90	80C90	29.240	C	1 ¹ / ₂	4 ¹ / ₁₆	6 ¹ / ₁₆	3 ¹ / ₁₆	106.0	A	80A90	1 ¹ / ₁₆	101.0
96	80C96	31.150	C	1 ¹ / ₂	4 ¹ / ₁₆	6 ¹ / ₁₆	3 ¹ / ₁₆	117.0	A	80A96	1 ¹ / ₁₆	120.0
112	80C112	36.240	C	1 ¹ / ₂	4 ¹ / ₁₆	6 ¹ / ₁₆	3 ¹ / ₁₆	154.0	A	80A112	1 ¹ / ₁₆	165.0

★★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

No. 80 1" Pitch

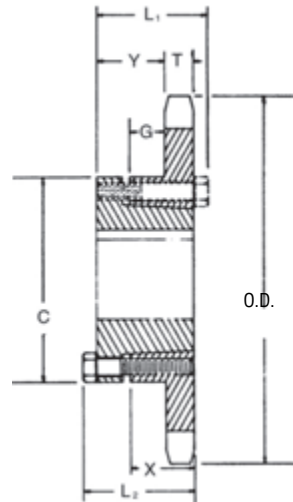
All Steel Stock Sprockets

Single - Type QD With Hardened Teeth

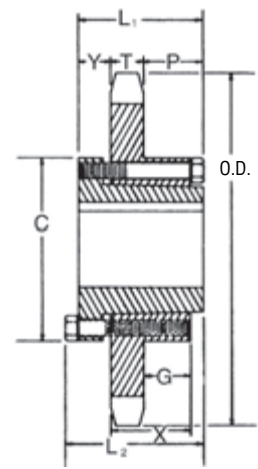
No. Teeth	Catalog Number
11	80SH11H
12	80SH12H
13	80SDS13H
14	80SDS14H
15	80SK15H
16	80SK16H
17	80SK17H
18	80SK18H
19	80SK19H
20	80SF20H
21	80SF21H
22	80SF22H
23	80SF23H
24	80SF24H
25	80SF25H
26	80SF26H
27	80SF27H
28	80SF28H
30	80SF30H

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QD — TYPE B

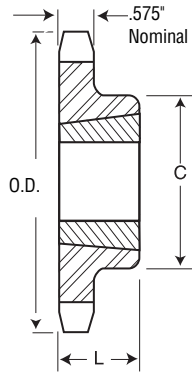


QD — TYPE C

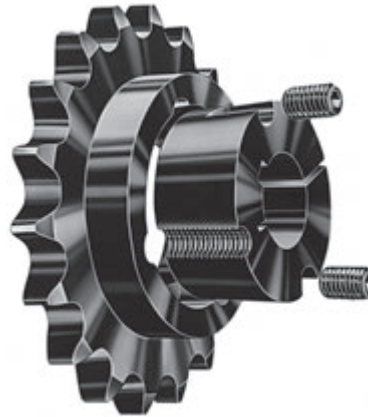
Single - Type QD

No. Teeth	Catalog Number	Bush- ing	Diameters		Type	Max. Bore	Dimensions								Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter			L ₁	L ₂	C	Y	P	G	X	T	With Hub	Rim Only
11	80SH11	SH	4.010	3.550	B	1 ¹ / ₁₆	1 ¹ / ₁₆	1 ¹ / ₁₆	2 ¹ / ₁₆	2 ³ / ₃₂	—	1 ³ / ₆₄	1 ³ / ₁₆	0.575	2.0	1.0
12	80SH12	SH	4.330	3.864	B	1 ¹ / ₁₆	1 ¹ / ₁₆	1 ¹ / ₁₆	2 ¹ / ₁₆	2 ³ / ₃₂	—	1 ³ / ₆₄	1 ³ / ₁₆	0.575	2.4	1.4
13	80SDS13	SDS	4.660	4.179	B	2	1 ¹ / ₂	1 ¹ / ₂	3 ³ / ₁₆	4 ⁵ / ₆₄	—	1 ¹ / ₆₄	3 ¹ / ₄	0.575	2.5	1.5
14	80SDS14	SDS	4.980	4.494	B	2	1 ¹ / ₂	1 ¹ / ₂	3 ³ / ₁₆	4 ⁵ / ₆₄	—	1 ¹ / ₆₄	3 ¹ / ₄	0.575	2.8	1.8
15	80SK15	SK	5.300	4.810	B	2 ³ / ₁₆	2 ¹ / ₂	2 ¹ / ₂	3 ³ / ₈	1 ¹ / ₆₄	—	2 ³ / ₃₂	1 ¹ / ₄	0.575	4.5	2.5
16	80SK16	SK	5.630	5.126	B	2 ³ / ₁₆	2 ¹ / ₂	2 ¹ / ₂	3 ³ / ₈	1 ¹ / ₆₄	—	2 ³ / ₃₂	1 ¹ / ₄	0.575	5.1	3.1
17	80SK17	SK	5.950	5.442	B	2 ³ / ₁₆	2 ¹ / ₂	2 ¹ / ₂	3 ³ / ₈	1 ¹ / ₆₄	—	2 ³ / ₃₂	1 ¹ / ₄	0.575	5.5	3.5
18	80SK18	SK	6.270	5.759	B	2 ³ / ₁₆	2 ¹ / ₂	2 ¹ / ₂	3 ³ / ₈	1 ¹ / ₆₄	—	2 ³ / ₃₂	1 ¹ / ₄	0.575	5.9	3.9
19	80SK19	SK	6.590	6.076	B	2 ³ / ₁₆	2 ¹ / ₂	2 ¹ / ₂	3 ³ / ₈	1 ¹ / ₆₄	—	2 ³ / ₃₂	1 ¹ / ₄	0.575	6.4	4.4
20	80SF20	SF	6.910	6.392	B	2 ¹ / ₁₆	2 ¹ / ₄	2 ¹ / ₄	4 ³ / ₈	1 ¹ / ₆₄	—	2 ³ / ₃₂	1 ¹ / ₄	0.575	8.3	5.3
21	80SF21	SF	7.240	6.710	B	2 ¹ / ₁₆	2 ¹ / ₄	2 ¹ / ₄	4 ³ / ₈	1 ¹ / ₆₄	—	2 ³ / ₃₂	1 ¹ / ₄	0.575	8.7	5.7
22	80SF22	SF	7.560	7.027	B	2 ¹ / ₁₆	2 ¹ / ₄	2 ¹ / ₄	4 ³ / ₈	1 ¹ / ₆₄	—	2 ³ / ₃₂	1 ¹ / ₄	0.575	9.3	6.3
23	80SF23	SF	7.880	7.344	B	2 ¹ / ₁₆	2 ¹ / ₄	2 ¹ / ₄	4 ³ / ₈	1 ¹ / ₆₄	—	2 ³ / ₃₂	1 ¹ / ₄	0.575	9.8	6.8
24	80SF24	SF	8.200	7.661	B	2 ¹ / ₁₆	2 ¹ / ₄	2 ¹ / ₄	4 ³ / ₈	1 ¹ / ₆₄	—	2 ³ / ₃₂	1 ¹ / ₄	0.575	10.5	7.5
25	80SF25	SF	8.520	7.979	B	2 ¹ / ₁₆	2 ¹ / ₄	2 ¹ / ₄	4 ³ / ₈	1 ¹ / ₆₄	—	2 ³ / ₃₂	1 ¹ / ₄	0.575	11.0	8.0
26	80SF26	SF	8.840	8.296	B	2 ¹ / ₁₆	2 ¹ / ₄	2 ¹ / ₄	4 ³ / ₈	1 ¹ / ₆₄	—	2 ³ / ₃₂	1 ¹ / ₄	0.575	11.6	8.6
27	80SF27	SF	9.160	8.614	B	2 ¹ / ₁₆	2 ¹ / ₄	2 ¹ / ₄	4 ³ / ₈	1 ¹ / ₆₄	—	2 ³ / ₃₂	1 ¹ / ₄	0.575	12.4	9.4
28	80SF28	SF	9.480	8.931	B	2 ¹ / ₁₆	2 ¹ / ₄	2 ¹ / ₄	4 ³ / ₈	1 ¹ / ₆₄	—	2 ³ / ₃₂	1 ¹ / ₄	0.575	13.2	10.2
30	80SF30	SF	10.110	9.567	B	2 ¹ / ₁₆	2 ¹ / ₄	2 ¹ / ₄	4 ³ / ₈	1 ¹ / ₆₄	—	2 ³ / ₃₂	1 ¹ / ₄	0.575	14.3	11.3
32	80SF32	SF	10.750	10.202	B	2 ¹ / ₁₆	2 ¹ / ₄	2 ¹ / ₄	4 ³ / ₈	1 ¹ / ₆₄	—	2 ³ / ₃₂	1 ¹ / ₄	0.575	16.0	13.0
33	80SF33	SF	11.070	10.520	B	2 ¹ / ₁₆	2 ¹ / ₄	2 ¹ / ₄	4 ³ / ₈	1 ¹ / ₆₄	—	2 ³ / ₃₂	1 ¹ / ₄	0.575	16.5	13.5
34	80SF34	SF	11.390	10.838	B	2 ¹ / ₁₆	2 ¹ / ₄	2 ¹ / ₄	4 ³ / ₈	1 ¹ / ₆₄	—	2 ³ / ₃₂	1 ¹ / ₄	0.575	17.1	14.1
35	80SF35	SF	11.710	11.156	B	2 ¹ / ₁₆	2 ¹ / ₄	2 ¹ / ₄	4 ³ / ₈	1 ¹ / ₆₄	—	2 ³ / ₃₂	1 ¹ / ₄	0.575	18.5	15.5
36	80SF36	SF	12.030	11.474	B	2 ¹ / ₁₆	2 ¹ / ₄	2 ¹ / ₄	4 ³ / ₈	1 ¹ / ₆₄	—	2 ³ / ₃₂	1 ¹ / ₄	0.575	19.9	16.9
40	80SF40	SF	13.310	12.746	B	2 ¹ / ₁₆	2 ¹ / ₄	2 ¹ / ₄	4 ³ / ₈	1 ¹ / ₆₄	—	2 ³ / ₃₂	1 ¹ / ₄	0.575	23.6	20.6
42	80SF42	SF	13.940	13.382	B	2 ¹ / ₁₆	2 ¹ / ₄	2 ¹ / ₄	4 ³ / ₈	1 ¹ / ₆₄	—	2 ³ / ₃₂	1 ¹ / ₄	0.575	25.4	22.4
45	80SF45	SF	14.900	14.336	B	2 ¹ / ₁₆	2 ¹ / ₄	2 ¹ / ₄	4 ³ / ₈	1 ¹ / ₆₄	—	2 ³ / ₃₂	1 ¹ / ₄	0.575	28.1	25.1
48	80SF48	SF	15.860	15.290	B	2 ¹ / ₁₆	2 ¹ / ₄	2 ¹ / ₄	4 ³ / ₈	1 ¹ / ₆₄	—	2 ³ / ₃₂	1 ¹ / ₄	0.575	31.6	28.6
54	80SF54	SF	17.770	17.198	B	2 ¹ / ₁₆	2 ¹ / ₄	2 ¹ / ₄	4 ³ / ₈	1 ¹ / ₆₄	—	2 ³ / ₃₂	1 ¹ / ₄	0.575	39.8	36.8
60	80SF60	SF	19.680	19.107	B	2 ¹ / ₁₆	2 ¹ / ₄	2 ¹ / ₄	4 ³ / ₈	1 ¹ / ₆₄	—	2 ³ / ₃₂	1 ¹ / ₄	0.575	48.8	45.8
70	80E70	E	22.870	22.289	C	3 ¹ / ₂	2 ³ / ₈	2 ³ / ₁₆	6	2 ³ / ₈	1 ¹ / ₁₆	1 ¹ / ₆₄	1 ³ / ₈	0.575	65.6	55.6
72	80E72	E	23.500	22.926	C	3 ¹ / ₂	2 ³ / ₈	2 ³ / ₁₆	6	2 ³ / ₈	1 ¹ / ₁₆	1 ¹ / ₆₄	1 ³ / ₈	0.575	69.3	59.3
80	80E80	E	26.050	25.471	C	3 ¹ / ₂	2 ³ / ₈	2 ³ / ₁₆	6	2 ³ / ₈	1 ¹ / ₁₆	1 ¹ / ₆₄	1 ³ / ₈	0.575	79.2	69.2
84	80E84	E	27.330	26.744	C	3 ¹ / ₂	2 ³ / ₈	2 ³ / ₁₆	6	2 ³ / ₈	1 ¹ / ₁₆	1 ¹ / ₆₄	1 ³ / ₈	0.575	84.9	74.9
96	80E96	E	31.150	30.563	C	3 ¹ / ₂	2 ³ / ₈	2 ³ / ₁₆	6	2 ³ / ₈	1 ¹ / ₁₆	1 ¹ / ₆₄	1 ³ / ₈	0.575	108.0	97.5
112	80F112	F	36.240	35.655	C	3 ³ / ₁₆	3 ³ / ₈	4	6	1	2 ¹ / ₁₆	1 ¹ / ₆₄	2 ¹ / ₈	0.575	145.0	134.0

Single - Taper Bushed with Hardened Teeth



TYPE B



No. Teeth	Catalog Number
10	80BTB10H
11	80BTB11H
12	80BTB12H
13	80BTB13H
14	80BTB14H
15	80BTB15H
16	80BTB16H
17	80BTB17H
18	80BTB18H
19	80BTB19H
20	80BTB20H
21	80BTB21H
22	80BTB22H
23	80BTB23H
24	80BTB24H
25	80BTB25H
26	80BTB26H
27	80BTB27H
28	80BTB28H
30	80BTB30H

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Single - Taper Bushed

No. Teeth	Catalog Number	Bushing	Diameter		Max. Bore	Dimensions		Type	Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter		L	C		Rim Only	Bushing Only
10	80BTB10	1215	3.678	3.236	1½	1½	2½★★	B	1.1	0.8
11	80BTB11	1215	4.006	3.549	1½	1½	2½½★★	B	1.5	0.8
12	80BTB12	1615	4.332	3.864	1½	1½	3★★	B	1.8	1.2
13	80BTB13	1615	4.657	4.179	1½	1½	3	B	2.3	1.2
14	80BTB14	1615	4.982	4.494	1½	1½	3½½	B	2.5	1.2
15	80BTB15	1615	5.305	4.810	1½	1½	3½	B	2.7	1.2
16	80BTB16	2012	5.627	5.126	2	1½	4	B	2.8	1.7
17	80BTB17	2012	5.950	5.442	2	1½	4	B	3.1	1.7
18	80BTB18	2012	6.271	5.759	2	1½	3¾	B	2.6	1.7
19	80BTB19	2012	6.593	6.076	2	1½	3¾	B	4.1	1.7
20	80BTB20	2517	6.914	6.392	2½	1½	4¼	B	5.5	1.7
21	80BTB21	2517	7.235	6.710	2½	1¾	4¼	B	6.0	3.5
22	80BTB22	2517	7.555	7.027	2½	1¾	4¼	B	6.5	3.5
23	80BTB23	2517	7.875	7.344	2½	1¾	4¼	B	7.0	3.5
24	80BTB24	2517	8.196	7.661	2½	1¾	4¼	B	7.5	3.5
25	80BTB25	2517	8.516	7.979	2½	1¾	4¼	B	8.1	3.5
26	80BTB26	2517	8.836	8.296	2½	1¾	4¼	B	8.8	3.5
27	80BTB27	2517	9.156	8.614	2½	1¾	4¼	B	9.0	3.5
28	80BTB28	2517	9.475	8.931	2½	1¾	4¼	B	9.5	3.5
30	80BTB30	2517	10.114	9.567	2½	1¾	4¼	B	11.5	3.5
32	80BTB32	2517	10.753	10.202	2½	1¾	4¼	B	12.0	3.5
35	80BTB35	2517	11.711	11.156	2½	1¾	4¼	B	15.2	3.5
36	80BTB36	2517	12.030	11.474	2½	1¾	4¼	B	17.0	3.5
40	80BTB40	2517	13.306	12.746	2½	1¾	4¼	B	21.0	3.5
45	80BTB45	2517	14.901	14.336	2½	1¾	4¼	B	26.5	3.5
48	80BTB48	2517	15.857	15.290	2½	1¾	4¼	B	29.5	3.5
54	80BTB54	2517	17.769	17.198	2½	1¾	4¼	B	38.5	3.5
60	80BTB60	2517	19.681	19.107	2½	1¾	4¼	B	45.0	3.5
70	80BTB70	3020	22.867	22.289	3	2	5¼	B	52.3	6.5
80	80BTB80	3020	26.052	25.471	3	2	5¼	B	69.2	6.5

★★ Has recessed groove in hub for chain clearance.

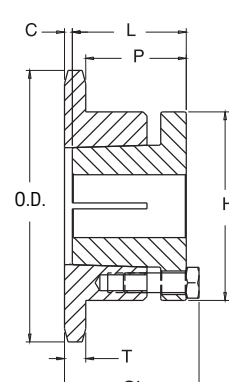
No. 80 1" Pitch

MST® Sprockets

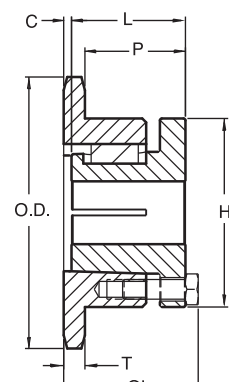


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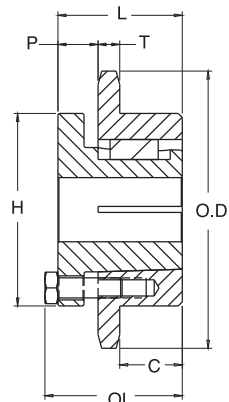
No. Teeth	Catalog Number	Bush-ing	Diameters		Type	Max. Bore	Dimensions						Weight Lbs. (Approx.)	
			Outside Dia.	Pitch Dia.			OL	L	C	H	P	T(nom)	With Hub	Rim Only
10	80H10H	H	3.680	3.236	3	1-1/2	2-3/32	1-1/4	21/32	2-1/2	1-21/64	0.575	2.8	2.0
11	80H11H	H	4.010	3.550	3	1-1/2	1-1/2	1-1/4	1/16	2-1/2	3/4	0.575	2.1	1.3
11	80P11H	P	4.010	3.550	4	1-3/4	2-11/32	1-15/16	5/32	3	1-17/32	0.575	2.4	1.6
12	80P12H	P1	4.330	3.864	4	1-3/4	2-3/16	1-15/16	0	3	1-3/8	0.575	3.3	2.0
13	80P13H	P1	4.660	4.179	4	1-3/4	2-3/16	1-15/16	0	3	1-3/8	0.575	3.7	2.4
14	80P14H	P1	4.980	4.494	4	1-3/4	2-3/16	1-15/16	0	3	1-3/8	0.575	3.9	2.6
14	80Q14H	Q1	4.980	4.494	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	6.4	2.9
15	80P15H	P1	5.300	4.810	4	1-3/4	2-3/16	1-15/16	0	3	1-3/8	0.575	4.3	3.0
15	80Q15H	Q1	5.300	4.810	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	6.9	3.4
16	80P16H	P1	5.630	5.126	4	1-3/4	2-3/16	1-15/16	0	3	1-3/8	0.575	4.8	3.5
16	80Q16H	Q1	5.630	5.126	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	8.1	4.6
17	80P17H	P1	5.950	5.442	4	1-3/4	2-3/16	1-15/16	0	3	1-3/8	0.575	5.1	3.8
17	80Q17H	Q1	5.950	5.442	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	8.8	5.3
18	80P18H	P1	6.270	5.759	4	1-3/4	2-3/16	1-15/16	0	3	1-3/8	0.575	5.7	4.4
18	80Q18H	Q1	6.270	5.759	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	9.5	6.0
19	80P19H	P1	6.590	6.076	4	1-3/4	2-3/16	1-15/16	0	3	1-3/8	0.575	6.2	4.9
19	80Q19H	Q1	6.590	6.076	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	10.0	6.5
20	80Q20H	Q1	6.910	6.392	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	10.5	7.0
21	80Q21H	Q1	7.240	6.710	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	10.8	7.3
22	80Q22H	Q1	7.560	7.027	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	11.7	8.2
23	80Q23H	Q1	7.880	7.344	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	12.3	8.8
24	80Q24H	Q1	8.200	7.661	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	12.6	9.1
25	80Q25H	Q1	8.520	7.979	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	13.1	9.6
26	80Q26H	Q1	8.840	8.296	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	14.1	10.6
27	80Q27H	Q1	9.160	8.614	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	14.4	10.9
28	80Q28H	Q1	9.480	8.931	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	15.9	12.4
29	80Q29H	Q1	9.800	9.249	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	16.1	12.6
30	80Q30H	Q1	10.110	9.567	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	16.9	13.4
31	80Q31	Q1	10.430	9.885	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	17.4	13.9
32	80Q32	Q1	10.750	10.202	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	18.3	14.8
33	80Q33	Q1	11.070	10.520	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	19.0	15.5
34	80Q34	Q1	11.390	10.838	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	19.8	16.3
35	80Q35	Q1	11.710	11.156	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	21.3	17.8
36	80Q36	Q1	12.030	11.474	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	21.6	18.1
36	80R36	R1	12.030	11.474	4	3-3/4	3-5/32	2-7/8	0	5-3/8	2-5/16	0.575	27.0	19.5
37	80Q37	Q1	12.350	11.792	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	22.0	18.5
38	80Q38	Q1	12.670	12.110	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	23.5	20.0
39	80R39	R1	12.990	12.428	4	3-3/4	3-5/32	2-7/8	0	5-3/8	2-5/16	0.575	30.3	22.8
40	80Q40	Q1	13.310	12.746	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	25.4	21.9
40	80R40	R1	13.310	12.746	4	3-3/4	3-5/32	2-7/8	0	5-3/8	2-5/16	0.575	30.9	23.4
41	80R41	R1	13.630	13.064	4	3-3/4	3-5/32	2-7/8	0	5-3/8	2-5/16	0.575	31.4	23.9
42	80Q42	Q1	13.940	13.382	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	27.3	23.8
42	80R42	R1	13.940	13.382	4	3-3/4	3-5/32	2-7/8	0	5-3/8	2-5/16	0.575	32.9	25.4
44	80R44	R1	14.580	14.018	4	3-3/4	3-5/32	2-7/8	0	5-3/8	2-5/16	0.575	34.7	27.2
45	80Q45	Q1	14.900	14.336	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	31.3	27.8
45	80R45	R1	14.900	14.336	4	3-3/4	3-5/32	2-7/8	0	5-3/8	2-5/16	0.575	36.0	28.5
47	80R47	R1	15.540	14.972	4	3-3/4	3-5/32	2-7/8	0	5-3/8	2-5/16	0.575	38.5	31.0
48	80Q48	Q1	15.860	15.290	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	34.3	30.8
48	80R48	R1	15.860	15.290	4	3-3/4	3-5/32	2-7/8	0	5-3/8	2-5/16	0.575	39.8	32.3
50	80R50	R1	16.500	15.926	4	3-3/4	3-5/32	2-7/8	0	5-3/8	2-5/16	0.575	42.6	35.1
54	80Q54	Q1	17.770	17.198	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	42.0	38.5
54	80R54	R1	17.770	17.198	4	3-3/4	3-5/32	2-7/8	0	5-3/8	2-5/16	0.575	48.3	40.8
56	80R56	R1	18.410	17.835	4	3-3/4	3-5/32	2-7/8	0	5-3/8	2-5/16	0.575	51.5	44.0
60	80Q60	Q1	19.680	19.107	4	2-11/16	2-25/32	2-1/2	0	4-1/8	1-15/16	0.575	50.3	46.8
60	80R60	R1	19.680	19.107	4	3-3/4	3-5/32	2-7/8	0	5-3/8	2-5/16	0.575	54.8	47.3
70	80Q70	Q1	22.870	22.289	4	2-11/16	2-25/32	2-1/2	0	4-1/8	2-5/16	0.575	63.5	60.0
70	80R70	R1	22.870	22.289	4	3-3/4	3-5/32	2-7/8	0	5-3/8	2-5/16	0.575	71.0	63.5
72	80Q72	Q1	23.500	22.926	4	2-11/16	2-25/32	2-1/2	0	4-1/8	2-5/16	0.575	71.0	67.5
72	80R72	R1	23.500	22.926	5	3-3/4	3-5/32	2-7/8	1-7/16	5-3/8	7/8	0.575	76.9	69.4
80	80R80	R1	26.050	25.471	5	3-3/4	3-5/32	2-7/8	1-7/16	5-3/8	7/8	0.575	92.5	85.0
84	80R84	R1	27.330	26.744	5	3-3/4	3-5/32	2-7/8	1-7/16	5-3/8	7/8	0.575	97.5	90.0
96	80R96	R1	31.150	30.563	5	3-3/4	3-5/32	2-7/8	1-7/16	5-3/8	7/8	0.575	117.5	110.0
112	80S112	S1	36.240	36.655	5	4-1/4	4-3/4	4-3/8	2-3/4	6-3/8	1-1/8	0.575	178.5	165.0



TYPE 3



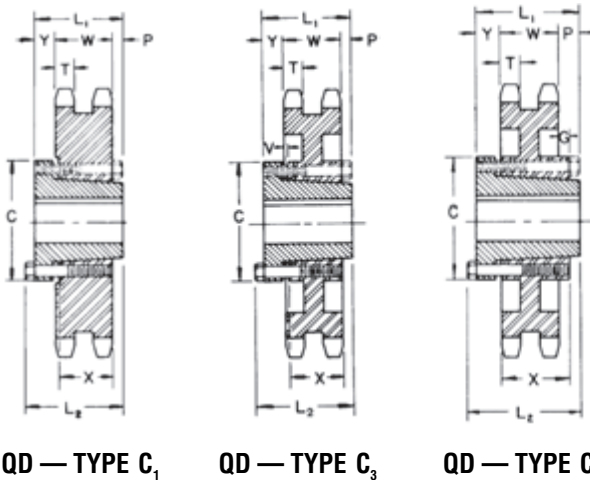
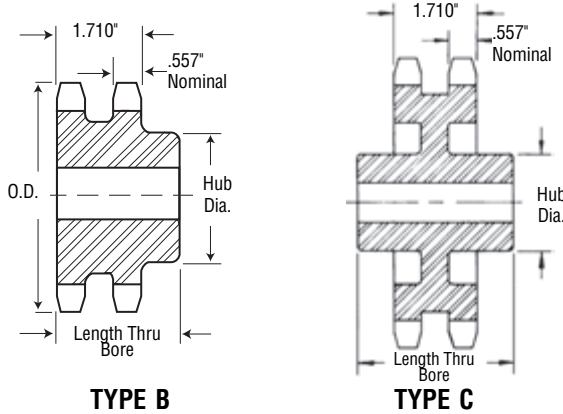
TYPE 4



TYPE 5

Sprockets with "H" suffix have hardened teeth.

Double - Type B & C



No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)
				Stock	Rec. Max.	Dia.	Length Thru	
10	D80B10H	3.680	B	1	1½	2½*	2½	3.6
11	D80B11H	4.010	B	1	1½	2½	2½	4.0
12	D80B12H	4.330	B	1	1½	2½	2½	5.1
13	D80B13H	4.660	B	1	2¼	3½	2½	6.3
14	D80B14H	4.980	B	1	2½	3½	2½	7.6
15	D80B15H	5.300	B	1	2½	3¾	2½	9.0
16	D80B16H	5.630	B	1	2½	4	2½	11.0
17	D80B17H	5.950	B	1	3	4¾	2½	13.2
18	D80B18H	6.270	B	1	3¼	4¾	2½	15.0
19	D80B19H	6.590	B	1	3½	5	2½	17.0
20	D80B20H	6.910	B	1	3½	5	2½	18.2
21	D80B21H	7.240	B	1	3½	5	2½	19.6
22	D80B22H	7.560	B	1	3½	5	2½	21.0
23	D80B23H	7.880	B	1	3½	5	2½	22.8
24	D80B24H	8.200	B	1	3½	5½	2½	25.1
25	D80B25H	8.520	B	1	3½	5½	3	28.3
26	D80B26	8.840	B	1	3½	5½	3	29.9
30	D80B30	10.110	B	1½	3½	5½	3	39.5
32	D80B32	10.750	B	1½	3½	5½	3	43.8
35	D80B35	11.710	B	1½	3½	5½	3	49.1
36	D80B36	12.030	B	1½	3½	5½	3½	54.2
42	D80B42	13.940	B	1½	3½	5½	3½	71.5
45	D80B45	14.900	B	1½	3½	5½	3½	73.5
52	D80C52	17.130	C	1½	3½	5½	3½	78.4
60	D80C60	19.680	C	1½	3½	5½	3½	93.3
68	D80C68	22.230	C	1½	3¾	6	4	96.2
76	D80C76	24.780	C	1½	3¾	6	4	113.0
95	D80C95	30.830	C	1½	4	6	4½	165.0

★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

NOTE: Double 80 stock sprockets with 25 teeth or less have hardened teeth, as indicated by H suffix.

Alteration Charges

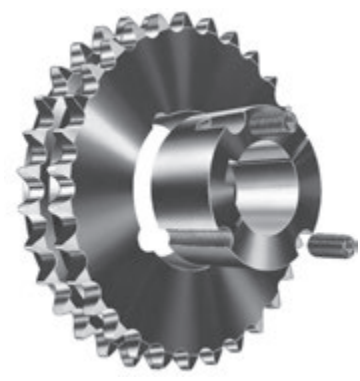
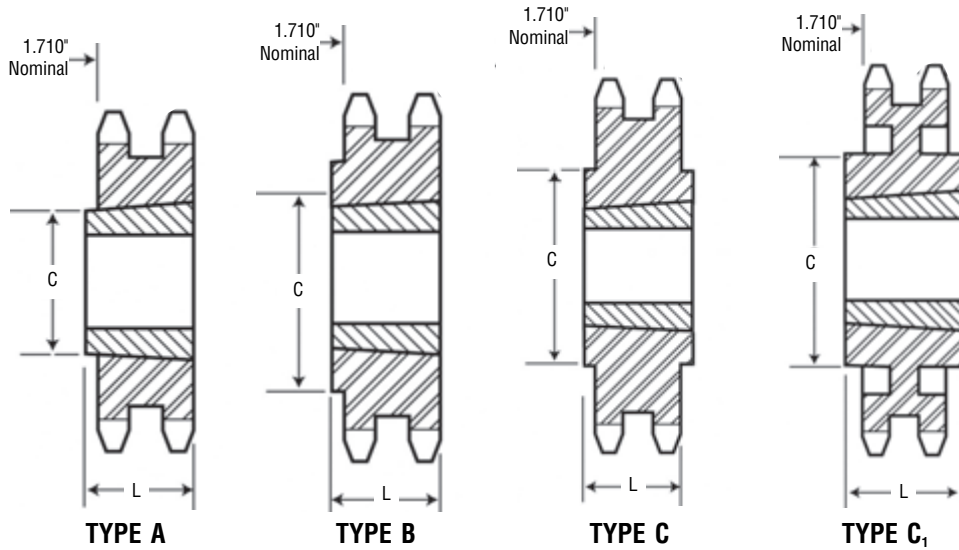
See current discount sheet for alteration charges.

Double - Type QD

No. Teeth	Catalog Number	Bush- ing	Diameters		Type	Max. Bore	Dimensions										Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter			L ₁	L ₂	C	Y	P	G	V	X	T	W	With Hub	Rim Only
36	D80E36	E	12.030	11.474	C1	3½	2%	2½	6	¾	½	—	—	1%	0.557	1.710	48.3	38.2
42	D80E42	E	13.940	13.382	C1	3½	2%	2½	6	¾	½	—	—	1%	0.557	1.710	65.3	55.3
45	D80E45	E	14.900	14.336	C1	3½	2%	2½	6	¾	½	—	—	1%	0.557	1.710	74.6	64.6
52	D80E52	E	17.130	16.562	C3	3½	2%	2½	6	¾	½	—	¾	1%	0.557	1.710	68.2	58.2
60	D80E60	E	19.680	19.107	C3	3½	2%	2½	6	¾	½	—	¾	1%	0.557	1.710	78.2	68.2
68	D80E68	E	22.230	21.653	C3	3½	2%	2½	6	¾	½	—	¾	1%	0.557	1.710	84.2	74.2
76	D80E76	E	24.780	24.198	C3	3½	2%	2½	6	¾	½	—	¾	1%	0.557	1.710	100.0	90.1
95	D80F95	F	30.830	30.245	C4	3¾	3%	4	6%	1	¾	¾	—	2½	0.557	1.710	152.0	140.0

No. 80-2 1" Pitch

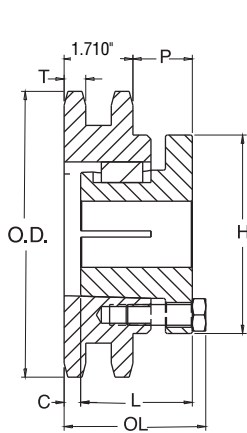
All Steel Stock Sprockets



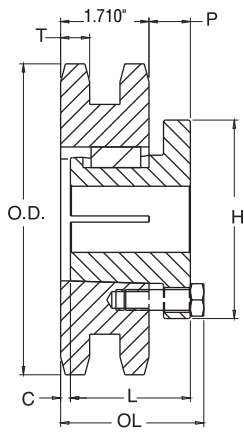
Double - Taper Bushed

No. Teeth	Catalog Number	Bushing	Diameter		Max. Bore	Dimensions			Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter		L	C	Type	Rim Only	Bushing Only
13	D80ATB13H	1615	4.657	4.179	1½	1½	—	A	3.4	1.2
14	D80ATB14H	2012	4.982	4.494	2	1½	—	A	3.5	1.7
15	D80ATB15H	2012	5.305	4.810	2	1½	—	A	4.3	1.7
16	D80ATB16H	2517	5.627	5.126	2½	1¾	3¾	A	3.8	3.5
17	D80ATB17H	2517	5.950	5.442	2½	1¾	3¾	A	5.1	3.5
18	D80ATB18H	2517	6.271	5.759	2½	1¾	3¾	A	6.4	3.5
19	D80BTB19H	3020	6.593	6.076	3	2	5	B	5.6	6.5
20	D80BTB20H	3020	6.914	6.392	3	2	5¼	B	7.1	6.5
21	D80BTB21H	3020	7.235	6.710	3	2	5½	B	8.9	6.5
25	D80BTB25H	3020	8.516	7.979	3	2	6¾	B	16.5	6.5
30	D80CTB30	3020	10.114	9.567	3	2	5¼	C	25.1	6.5
36	D80CTB36	3020	12.030	11.474	3	2	5¼	C	39.4	6.5
42	D80CTB42	3020	13.944	13.392	3	2	5¼	C	36.4	6.5
45	D80CTB45	3020	14.901	14.336	3	2	5¼	C1	41.4	6.5
52	D80CTB52	3020	17.132	16.562	3	2	5¼	C1	56.2	6.5
60	D80CTB60	3020	19.681	19.107	3	2	5¼	C1	66.3	6.5
68	D80CTB68	3020	22.230	21.653	3	2	5¼	C1	72.0	6.5
76	D80CTB76	3020	24.778	24.198	3	2	5¼	C1	89.1	6.5
95	D80CTB95	3020	30.828	30.245	3	2	5¼	C1	112.0	6.5

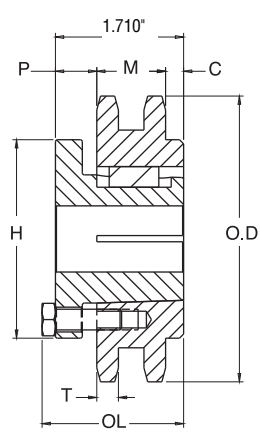
NOTE: Double 80 stock sprockets with 25 teeth or less have hardened teeth, as indicated by H suffix.



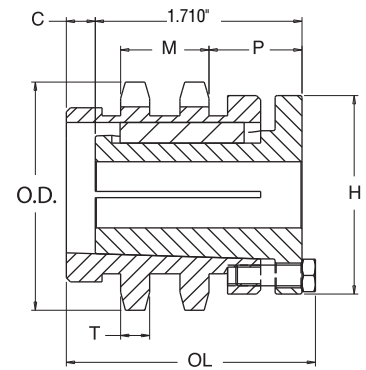
TYPE 12



TYPE 13



TYPE 15



TYPE 16

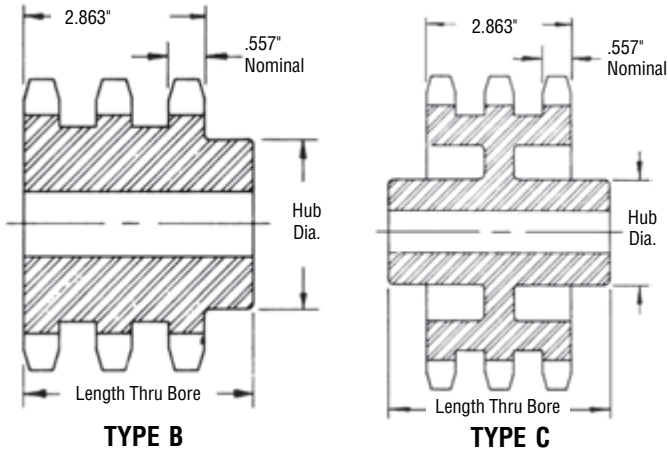
Double - MST[®] Sprockets

No. Teeth	Catalog Number	Bush-ing	Diameters		Type	Max. Bore	Dimensions						Weight Lbs. (Approx.)	
			Outside Dia.	Pitch Dia.			OL	L	C	H	P	T(nom)	With Hub	Rim Only
13	D80P13H	P1	4.660	4.179	13	1-3/4	2-19/32	1-15/16	13/32	3	5/8	0.557	4.9	3.6
14	D80Q14H	Q2	4.980	4.494	16	2-5/8	4 5/8	3-1/2	27/32	4-1/8	1-3/4	0.557	9.9	5.4
15	D80Q15H	Q2	5.300	4.810	12	2-5/8	3-25/32	3-1/2	0	4-1/8	13/4	0.557	9.9	5.4
16	D80Q16H	Q1	5.630	5.126	13	2-11/16	2-25/32	2-1/2	0	4-1/8	3/4	0.557	8.3	4.8
17	D80Q17H	Q1	5.950	5.442	13	2-11/16	2-25/32	2-1/2	0	4-1/8	3/4	0.557	9.5	6.0
18	D80Q18H	Q1	6.270	5.759	13	2-11/16	2-25/32	2-1/2	0	4-1/8	3/4	0.557	10.8	7.3
19	D80Q19H	Q1	6.590	6.076	13	2-11/16	2-25/32	2-1/2	0	4-1/8	3/4	0.557	12.0	8.5
20	D80R20H	R1	6.910	6.392	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-5/32	0.557	15.3	7.8
21	D80R21H	R1	7.240	6.710	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-5/32	0.557	16.9	9.4
22	D80R22H	R1	7.560	7.027	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-5/32	0.557	18.3	10.8
23	D80R23H	R1	7.880	7.344	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-5/32	0.557	19.8	12.3
24	D80R24H	R1	8.200	7.661	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-5/32	0.557	21.6	14.1
25	D80R25H	R1	8.520	7.979	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-5/32	0.557	23.3	15.8
26	D80R26	R1	8.840	8.296	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-5/32	0.557	25.6	18.1
27	D80R27	R1	9.160	8.614	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-5/32	0.557	27.9	20.4
28	D80R28	R1	9.480	8.931	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-5/32	0.557	30.2	22.7
30	D80R30	R1	10.110	9.567	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-5/32	0.557	34.3	26.8
36	D80R36	R1	12.030	11.474	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-5/32	0.557	49.1	41.6
42	D80R42	R1	13.940	13.382	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-5/32	0.557	65.5	58.0
45	D80R45	R1	14.900	14.336	12	3-3/4	3-5/32	2-7/8	0	5-3/8	1-5/32	0.557	75.5	68.0
48	D80R48	R2	15.860	15.290	15	3-5/8	5-5/32	4-7/8	2-9/32	5-3/8	7/8	0.557	97.0	86.0
52	D80R52	R2	17.130	16.562	15	3-5/8	5-5/32	4-7/8	2-9/32	5-3/8	7/8	0.557	114.0	103.0
54	D80R54	R2	17.770	17.198	15	3-5/8	5-5/32	4-7/8	2-9/32	5-3/8	7/8	0.557	122.0	111.0
60	D80R60	R2	19.680	19.107	15	3-5/8	5-5/32	4-7/8	2-9/32	5-3/8	7/8	0.557	146.0	135.0
68	D80R68	R2	22.230	21.653	15	3-5/8	5-5/32	4-7/8	2-9/32	5-3/8	7/8	0.557	187.0	176.0
72	D80R72	R2	23.500	22.926	15	3-5/8	5-5/32	4-7/8	2-9/32	5-3/8	7/8	0.557	209.0	198.0
76	D80U76	U0	24.780	24.198	15	5-1/2	5-23/32	5-1/4	2-1/32	8-3/8	1-1/2	0.557	249.0	219.0
95	D80U95	U0	30.830	30.245	15	5 1/2	5-23/32	5-1/4	2-1/32	8-3/8	1-1/2	0.557	372.0	342.0

Sprockets with "H" suffix have hardened teeth.

No. 80-3 1" Pitch

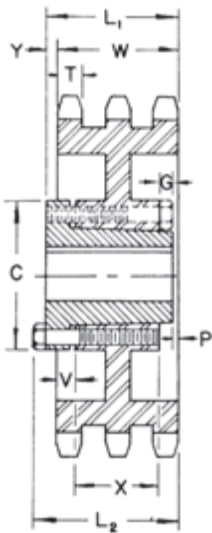
All Steel Stock Sprockets



Triple - Type B & C

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)
				Stock	Rec. Max.	Dia.	Length Thru	
11	E80B11H	4.010	B	1	1 1/4	2 1/2	3 3/8	5.9
12	E80B12H	4.330	B	1	1 1/2	2 7/8	3 3/8	7.5
13	E80B13H	4.660	B	1	2 1/4	3 3/2	3 3/8	9.2
14	E80B14H	4.980	B	1	2 3/4	3 5/8	3 3/8	11.0
15	E80B15H	5.300	B	1	2 1/2	3 3/4	3 3/8	13.1
16	E80B16H	5.630	B	1	2 3/4	4	3 3/8	15.8
17	E80B17H	5.950	B	1	3	4 1/4	3 3/8	18.6
18	E80B18H	6.270	B	1	3 1/4	4 3/4	3 3/8	21.2
19	E80B19H	6.590	B	1	3 5/8	5	3 3/8	23.7
20	E80B20H	6.910	B	1	3 3/4	5	3 3/8	26.0
21	E80B21H	7.240	B	1	3 7/8	5	3 3/8	28.4
22	E80B22H	7.560	B	1	3 5/4	5	3 3/8	31.0
23	E80B23H	7.880	B	1	3 3/2	5	3 3/8	33.6
24	E80B24H	8.200	B	1	3 1/2	5 1/4	3 3/8	37.1
25	E80B25H	8.520	B	1	3 1/2	5 1/4	3 3/8	40.1
26	E80B26	8.840	B	1	3 1/2	5 1/4	3 3/8	42.9
30	E80B30	10.110	B	1 1/4	3 3/4	5 3/4	4 1/4	54.5
35	E80B35	11.710	B	1 1/4	3 3/4	5 3/4	4 1/4	79.5
36	E80B36	12.030	B	1 1/4	3 3/4	5 3/4	4 1/4	83.9
42	E80C42	13.940	C	1 1/4	3 3/8	6	4 1/2	84.9
45	E80C45	14.900	C	1 1/4	3 3/8	6	4 1/2	92.4
52	E80C52	17.130	C	1 1/2	3 3/8	6	4 1/2	107.0
60	E80C60	19.680	C	1 1/2	4 1/4	6 1/4	4 1/2	128.0
68	E80C68	22.230	C	1 1/2	4 1/4	6 1/4	4 1/2	140.0
76	E80C76	24.780	C	1 1/2	4 1/4	6 1/4	4 1/2	165.0
95	E80C95	30.830	C	1 1/2	4 1/2	6 3/4	5	240.0

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat, as indicated by H suffix.



QD — TYPE B₁



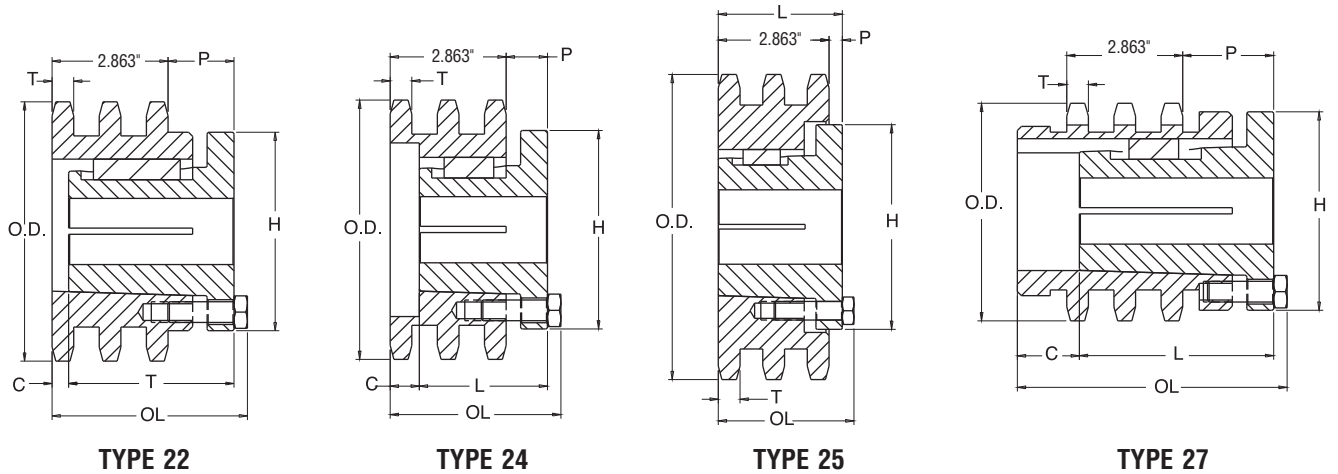
Alteration Charges

See current discount sheet for alteration charges.

Triple - Type QD

No. Teeth	Catalog Number	Bush-ing	Diameters		Type	Max. Bore	Dimensions									Weight Lbs. (Approx.)		
			Outside Diameter	Pitch Diameter			L ₁	L ₂	C	Y	P	G	V	X	T	W	With Hub	Rim Only
36	E80E36	E	12.030	11.474	B	3 1/2	3 3/4	3 3/4	6	1/4	3/4	1/8	%	1 1/2	0.557	2.863	65.1	55.1
42	E80E42	E	13.940	13.382	B	3 1/2	3 3/4	3 3/4	6	1/4	3/4	1/8	%	1 1/2	0.557	2.863	81.9	71.9
45	E80E45	E	14.900	14.336	B1	3 1/2	3 3/4	3 3/4	6	1/4	3/4	1/8	%	1 1/2	0.557	2.863	75.3	65.3
52	E80E52	E	17.130	16.562	B1	3 1/2	3 3/4	3 3/4	6	1/4	3/4	1/8	%	1 1/2	0.557	2.863	90.0	80.0
60	E80F60	F	19.680	19.107	B1	3 3/8	3 3/4	4 1/4	6 1/2	1 3/16	3/4	1/8	3/16	2 1/2	0.557	2.863	112.0	100.0
68	E80F68	F	22.230	21.653	B1	3 3/8	3 3/4	4 1/4	6 1/2	1 3/16	3/4	1/8	3/16	2 1/2	0.557	2.863	132.0	120.0
76	E80F76	F	24.780	24.198	B1	3 3/8	3 3/4	4 1/4	6 1/2	1 3/16	3/4	1/8	3/16	2 1/2	0.557	2.863	150.0	138.0
95	E80F95	F	30.830	30.245	B1	3 3/8	3 3/4	4 1/4	6 1/2	1 3/16	3/4	1/8	3/16	2 1/2	0.557	2.863	208.0	196.0

NOTE: Triple 80 stock sprockets with 25 teeth or less have hardened teeth.



Triple - MST[®] Sprockets

No. Teeth	Catalog Number	Bush-ing	Diameters		Type	Max. Bore	Dimensions						Weight Lbs. (Approx.)	
			Outside Dia.	Pitch Dia.			OL	L	C	H	P	T(nom)	With Hub	Rim Only
13	E80P13H	P2	4.660	4.179	24	1-3/4	3-3/4	2-15/16	9/16	3	5/8	0.557	7.2	5.7
14	E80Q14H	Q2	4.980	4.494	27	2-5/8	5-25/32	3-1/2	2	4-1/8	1-3/4	0.557	12.0	7.5
15	E80Q15H	Q2	5.300	4.810	22	2-5/8	4-29/32	3-1/2	1-1/8	4-1/8	1-3/4	0.557	12.6	8.1
16	E80Q16H	Q2	5.630	5.126	25	2-5/8	3-7/8	3-1/2	3/32	4-1/8	3/4	0.557	13.8	9.3
17	E80Q17H	Q2	5.950	5.442	24	2-5/8	3-29/32	3-1/2	1/8	4-1/8	3/4	0.557	14.3	9.8
18	E80Q18H	Q2	6.270	5.759	24	2-5/8	3-29/32	3-1/2	1/8	4-1/8	3/4	0.557	16.5	12.0
19	E80Q19H	Q2	6.590	6.076	24	2-5/8	3-29/32	3-1/2	1/8	4-1/8	3/4	0.557	18.4	13.9
20	E80R20H	R1	6.910	6.392	24	3-3/4	4-1/32	2-7/8	7/8	5-3/8	7/8	0.557	17.7	10.2
21	E80R21H	R1	7.240	6.710	24	3-3/4	4-1/32	2-7/8	7/8	5-3/8	7/8	0.557	19.9	12.4
22	E80R22H	R1	7.560	7.027	24	3-3/4	4-1/32	2-7/8	7/8	5-3/8	7/8	0.557	22.1	14.6
23	E80R23H	R1	7.880	7.344	25	3-3/4	3-5/32	2-7/8	0	5-3/8	0	0.557	23.4	15.9
24	E80R24	R1	8.200	7.661	25	3-3/4	3-5/32	2-7/8	0	5-3/8	0	0.557	7.2	18.5
25	E80R25	R1	8.520	7.979	25	3-3/4	3-5/32	2-7/8	0	5-3/8	0	0.557	12.0	20.3
26	E80R26	R1	8.840	8.296	25	3-3/4	3-5/32	2-7/8	0	5-3/8	0	0.557	12.6	23.4
27	E80R27	R1	9.160	8.614	25	3-3/4	3-5/32	2-7/8	0	5-3/8	0	0.557	13.8	25.8
28	E80R28	R1	9.480	8.931	25	3-3/4	3-5/32	2-7/8	0	5-3/8	0	0.557	14.3	28.1
30	E80R30	R1	10.110	9.567	25	3-3/4	3-5/32	2-7/8	0	5-3/8	0	0.557	16.5	33.3
36	E80S36	S1	12.030	11.474	22	4-1/4	5-1/8	4-3/8	0	6-3/8	1-1/2	0.557	18.4	67.0
42	E80S42	S1	13.940	13.382	22	4-1/4	5-1/8	4-3/8	0	6-3/8	1-1/2	0.557	17.7	96.1
45	E80S45	S1	14.900	14.336	22	4-1/4	5-1/8	4-3/8	0	6-3/8	1-1/2	0.557	19.9	112.0
52	E80U52	U0	17.130	16.562	22	5-1/2	5-23/32	5-1/4	0	8-3/8	1-25/32	0.557	22.1	150.0
60	E80U60	U0	19.680	19.107	22	5-1/2	5-23/32	5-1/4	0	8-3/8	1-25/32	0.557	23.4	207.0
68	E80U68	U0	22.230	21.653	22	5-1/2	5-23/32	5-1/4	0	8-3/8	1-25/32	0.557	23.4	271.0
76	E80U76	U0	24.780	24.198	22	5-1/2	5-23/32	5-1/4	0	8-3/8	1-25/32	0.557	23.4	344.0
95	E80U95	U0	30.830	30.245	25	5-1/2	5-55/64	5-1/4	1/32	8-3/8	1-13/32	0.557	23.4	183.0

Sprockets with "H" suffix have hardened teeth.

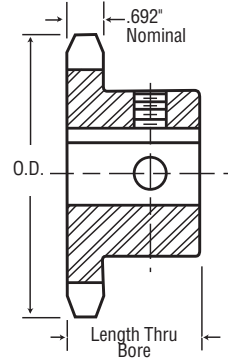
No. 100

1 1/4" Pitch

All Steel Stock Sprockets



BORED-TO-SIZE



TYPE BS

Single - Type BS — 2 Setscrews — Bored-To-Size

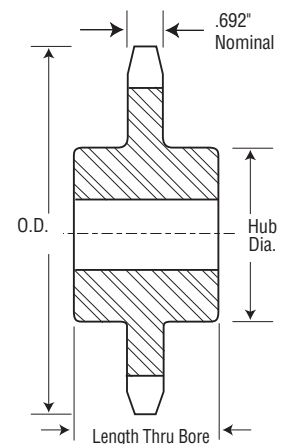
No. Teeth	Catalog Number	Outside Diameter	Length Thru Bore	Weight Lbs. (Approx.)	Stock Finished Bores Includes Keyway and Setscrews
8	100BS8	3.770	1 1/8	2.8	1 — 1 3/16 — 1 1/4
9	100BS9	4.180	1 1/8	3.0	1 — 1 3/16 — 1 1/4 — 1 1/16
10	100BS10	4.600	1 1/8	3.9	1 — 1 3/16 — 1 1/4 — 1 1/16
11	100BS11	5.010	1 1/8	4.9	1 — 1 3/16 — 1 1/4 — 1 1/16 — 1 1/16 — 2 — 2 3/16
12	100BS12	5.420	1 1/8	6.0	1 — 1 3/16 — 1 1/4 — 1 1/16 — 1 1/16 — 2 — 2 3/16
13	100BS13	5.820	1 3/8	6.2	1 — 1 3/16 — 1 1/4 — 1 1/16 — 1 1/16 — 2 — 2 3/16
14	100BS14	6.230	1 3/8	6.6	— 1 1/4 — 1 1/16 — 1 1/16 — 2 — 2 3/16
15	100BS15	6.630	1 3/8	8.4	— 1 1/4 — 1 1/16 — 1 1/16 — 2 — 2 3/16
16	100BS16	7.030	1 3/8	9.0	— 1 1/4 — 1 1/16 — 2 — 2 3/16 — 2 1/16 — 2 5/16
17	100BS17	7.440	1 3/8	9.9	— 1 1/4 — 1 1/16 — 2 — 2 3/16 — 2 1/16 — 2 5/16
18	100BS18	7.840	1 3/8	10.6	— 1 1/4 — 1 1/16 — 2 — 2 3/16 — 2 1/16 — 2 5/16
19	100BS19	8.240	2	12.1	— 1 1/4 — 1 1/16 — 2 — 2 3/16 — 2 1/16 — 2 5/16
20	100BS20	8.640	2	13.2	— 1 1/4 — 1 1/16 — 2 — 2 3/16 — 2 1/16 — 2 5/16
21	100BS21	9.040	2	14.3	— 1 1/4 — 1 1/16 — 2 — 2 3/16 — 2 1/16 — 2 5/16
22	100BS22	9.440	2	15.1	— 1 1/4 — 1 1/16 — 2 — 2 3/16 — 2 1/16 — 2 5/16
23	100BS23	9.840	2	16.1	— 1 1/4 — 1 1/16 — 2 — 2 3/16 — 2 1/16 — 2 5/16
24	100BS24	10.250	2	18.1	— 1 1/4 — 1 1/16 — 2 — 2 3/16 — 2 1/16 — 2 5/16
25	100BS25	10.650	2	18.4	— 1 1/4 — 1 1/16 — 2 — 2 3/16 — 2 1/16 — 2 5/16

Hub diameters vary to suit different bore sizes.

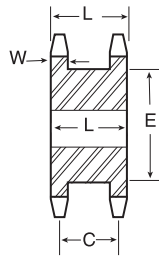
NOTE: KEYWAY IS ON CENTER LINE OF TOOTH.

Single - Type C — Steel

No. Teeth	Catalog Number	Outside Diameter	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)
			Stock	Rec. Max.	Diameter	Length	
10	100C10	4.600	1	1 1/8	3 1/2	2 1/2	6.13
11	100C11	5.010	1	2 1/4	3 5/8	2 1/2	7.12
12	100C12	5.420	1	2 1/2	4	2 1/2	8.37
13	100C13	5.820	1	2 3/4	3 3/4	2 1/2	10.00
14	100C14	6.230	1	2 3/4	4 1/8	2 1/2	12.19



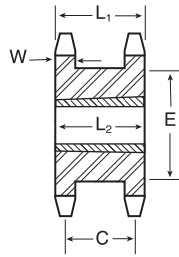
TYPE C



TYPE A

Double Single - Type A — Steel

No. Teeth	Catalog Number	Diameters		Type	Min. Bore	Max. Bore	Dimensions				Wt. Lbs. (Approx.)
		Outside Diameter	Pitch Diameter				L	C	E	w Nom.	
13	DS100A13	5.820	5.223	A	1	2 1/2	2 1/16	2	3 3/32	0.692	11.2
14	DS100A14	6.230	5.617	A	1 1/4	2 3/4	2 1/16	2	4 1/16	0.692	13.5
15	DS100A15	6.630	6.012	A	1 1/4	3 1/16	2 1/16	2	4 3/32	0.692	16.8
16	DS100A16	7.030	6.407	A	1 1/4	3 1/4	2 1/16	2	5	0.692	19.3
17	DS100A17	7.440	6.803	A	1 1/4	3 3/8	2 1/16	2	5 5/32	0.692	21.5
18	DS100A18	7.840	7.198	A	1 1/2	3 3/4	2 1/16	2	5 5/16	0.692	23.0
19	DS100A19	8.240	7.595	A	1 1/2	4 1/16	2 1/16	2	6 3/16	0.692	25.0
20	DS100A20	8.640	7.991	A	1 1/2	4 3/16	2 1/16	2	6 3/8	0.692	26.5
21	DS100A21	9.040	8.387	A	1 1/2	5	2 1/16	2	7	0.692	29.0

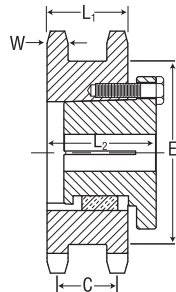


TAPER BUSH TYPE A

Double Single - Taper Bushed — Steel

No. Teeth	Catalog Number	Bushing Size	Diameters		Min. Bore	Max. Bore	Type	Dimensions				Wt. Rim Only	
			Outside Diameter	Pitch Diameter				L ₁	C	E	L ₂		w Nom.
15	DS100ATB15H	2517	6.630	6.012	3/4	2 1/2	A	2 1/16	2	4 13/32	1 1/4	0.692	12.5
16	DS100ATB16H	2525	7.030	6.407	3/4	2 1/2	A	2 1/16	2	5	1 1/4	0.692	13.0
17	DS100ATB17H	3020	7.440	6.803	15/16	3	A	2 1/16	2	5 5/32	2	0.692	14.0
18	DS100ATB18H	3020	7.840	7.198	15/16	3	A	2 1/16	2	5 5/16	2	0.692	16.0
19	DS100ATB19H	3020	8.240	7.595	15/16	3	A	2 1/16	2	6 3/16	2	0.692	20.0
20	DS100ATB20H	3020	8.640	7.991	15/16	3	A	2 1/16	2	6 3/8	1 1/4	0.692	27.5
21	DS100ATB21H	3020	9.040	8.387	15/16	3	A	2 1/16	2	7	2	0.692	27.5

Sprockets with "H" suffix have hardened teeth.



MST TYPE B

Double Single - MST® — Steel

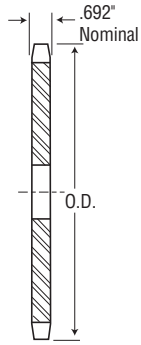
No. Teeth	Catalog Number	Bushing Size	Diameters		Min. Bore	Max. Bore	Type	Dimensions				Wt. Rim Only	
			Outside Diameter	Pitch Diameter				L ₁	C	E	L ₂		w Nom.
17	DS100R17H	R1	7.440	6.803	1 1/4	3 3/8	B	2 1/16	2	5 5/32	3 7/32	0.692	12.5
19	DS100R19H	R1	8.240	7.595	1 1/4	3 3/8	B	2 1/16	2	6 3/16	3 7/32	0.692	18.8
21	DS100R21H	R1	9.040	8.387	1 1/4	3 3/8	B	2 1/16	2	7	3 7/32	0.692	23.1

Sprockets with "H" suffix have hardened teeth.

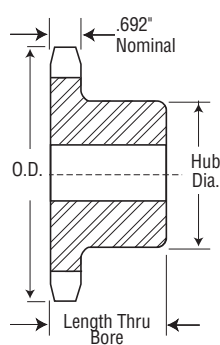
No. 100

1 1/4" Pitch

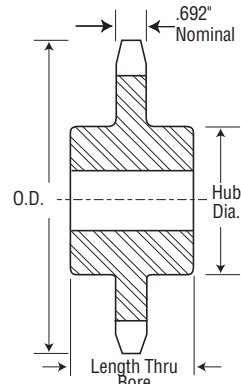
Stainless Steel Stock Sprockets



TYPE A



TYPE B



TYPE C

Single - Type B & C

Single - Type A

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)	Type	Catalog Number	Stock Bore	Weight Lbs. (Approx.)
				Stock	Rec. Max.	Diameter	Length Thru					
11	100B11SS	5.010	B	1	2 1/4	3 5/16★	1 1/8	5.3	-	-	-	-
12	100B12SS	5.420	B	1	2 1/4	4★	1 1/8	6.4	-	-	-	-
13	100B13SS	5.820	B	1	2 3/8	3 1/2	1 1/8	6.6	-	-	-	-
14	100B14SS	6.230	B	1 1/4	2 3/8	4 1/16	1 1/8	7.4	-	-	-	-
15	100B15SS	6.630	B	1 1/4	3	4 1/2	1 3/8	9.2	-	-	-	-
16	100B16SS	7.030	B	1 5/16	3	4 1/2	1 3/8	9.9	A	100A16SS	1 1/4	5.4
17	100B17SS	7.440	B	1 5/16	3	4 1/2	1 3/8	10.8	A	100A17SS	1 1/4	6.1
18	100B18SS	7.840	B	1 5/16	3	4 1/2	1 3/8	11.5	A	100A18SS	1 1/4	7.0
19	100B19SS	8.240	B	1 5/16	3	4 1/2	2	13.1	A	100A19SS	1 1/4	7.8
20	100B20SS	8.640	B	1 5/16	3	4 1/2	2	14.2	A	100A20SS	1 1/4	8.8
21	100B21SS	9.040	B	1 5/16	3	4 1/2	2	15.3	A	100A21SS	1 1/4	9.8

★ Has recessed groove in hub for chain clearance.

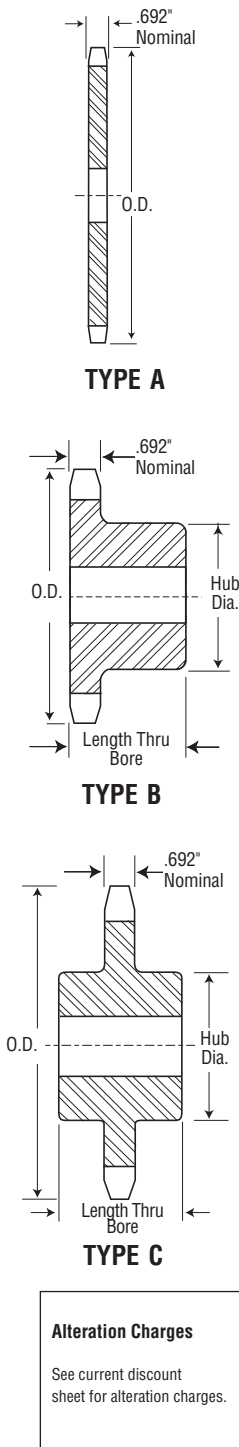
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

Alteration Charges

See current discount sheet for alteration charges.

Single - Type B & C

Single-Type A



No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)	Type	Catalog Number	Stock Bore	Weight Lbs. (Approx.)
				Stock	Rec. Max.	Diameter	Length Thru					
7		3.350							A	100A7	1	1.2
8	100B8	3.770	B	1	1 1/4	2 5/16★	1 1/8	2.3	A	100A8	1	1.4
9	100B9	4.180	B	1	1 1/2	2 3/8★	1 1/8	3.2	A	100A9	1	1.6
10	100B10	4.600	B	1	1 3/4	3 1/4★	1 1/8	4.1	A	100A10	1	2.0
11	100B11	5.010	B	1	2 1/4	3 5/16★	1 1/8	5.3	A	100A11	1 1/4	2.5
12	100B12	5.420	B	1	2 1/2	4★	1 1/8	6.4	A	100A12	1 1/4	3.0
13	100B13	5.820	B	1	2 3/4	3	1 1/8	6.6	A	100A13	1 1/4	3.5
14	100B14	6.230	B	1 1/4	2 3/4	4 3/16	1 1/8	7.4	A	100A14	1 1/4	4.1
15	100B15	6.630	B	1 1/2	3	4 1/2	1 1/8	9.2	A	100A15	1 1/4	4.7
16	100B16	7.030	B	1 5/8	3	4 1/2	1 3/8	9.9	A	100A16	1 1/4	5.4
17	100B17	7.440	B	1 5/8	3	4 1/2	1 1/2	10.8	A	100A17	1 1/4	6.1
18	100B18	7.840	B	1 5/8	3	4 1/2	1 3/4	11.5	A	100A18	1 1/4	7.0
19	100B19	8.240	B	1 5/8	3	4 1/2	2	13.1	A	100A19	1 1/4	7.8
20	100B20	8.640	B	1 5/8	3	4 1/2	2	14.2	A	100A20	1 1/4	8.8
21	100B21	9.040	B	1 5/8	3	4 1/2	2	15.3	A	100A21	1 1/4	9.8
22	100B22	9.440	B	1 5/8	3	4 1/2	2	16.1	A	100A22	1 1/4	10.5
23	100B23	9.840	B	1 1/2	3	4 1/2	2	17.2	A	100A23	1 1/4	11.8
24	100B24	10.250	B	1 1/2	3	4 1/2	2	19.2	A	100A24	1 1/4	12.8
25	100B25	10.650	B	1 1/2	3	4 1/2	2	19.5	A	100A25	1 1/4	13.9
26	100B26	11.050	B	1 1/2	3 5/16	5	2	21.7	A	100A26	1 1/4	15.0
27	100B27	11.440	B	1 1/2	3 5/16	5	2	23.0	A	100A27	1 1/4	16.0
28	100B28	11.840	B	1 1/2	3 5/16	5	2	24.4	A	100A28	1 1/4	17.4
29	100B29	12.240	B	1 1/2	3 5/16	5	2	25.0	A	100A29	1 1/4	19.6
30	100B30	12.640	B	1 1/2	3 5/16	5	2	26.9	A	100A30	1 1/4	20.1
31		13.040							A	100A31	1 1/4	21.5
32	100B32	13.440	B	1 1/2	3 5/16	5	2	29.8	A	100A32	1 1/4	22.6
33		13.840							A	100A33	1 1/4	24.1
34		14.240							A	100A34	1 1/4	26.0
35	100B35	14.640	B	1 1/2	3 5/16	5	2 1/2	36.9	A	100A35	1 1/4	27.2
36	100B36	15.040	B	1 1/2	3 5/16	5	2 1/2	38.6	A	100A36	1 1/4	30.0
37		15.440							A	100A37	1 1/4	31.0
38	100B38	15.840	B	1 1/2	3 5/16	5	2 1/2	41.5	A	100A38	1 1/4	33.0
39	100B39	16.230	B	1 1/2	3 5/16	5	2 1/2	43.6	A	100A39	1 1/4	35.0
40	100B40	16.630	B	1 1/2	3 5/16	5	2 1/2	46.9	A	100A40	1 1/4	36.0
41		17.030							A	100A41	1 1/4	39.0
42	100B42	17.430	B	1 1/2	3 5/16	5	2 1/2	50.4	A	100A42	1 1/4	40.0
43		17.830							A	100A43	1 1/4	43.0
44		18.230							A	100A44	1 1/4	45.0
45	100B45	18.630	B	1 1/2	3 5/16	5	2 1/2	54.0	A	100A45	1 1/4	47.0
46		19.020							A	100A46	1 1/4	48.0
47		19.420							A	100A47	1 1/4	52.0
48	100B48	19.820	B	1 1/2	4	6	2 1/2	66.0	A	100A48	1 1/4	54.0
49		20.220							A	100A49	1 1/4	56.0
50		20.620							A	100A50	1 1/4	57.0
51		21.020							A	100A51	1 1/4	63.0
52		21.420							A	100A52	1 1/4	64.0
53		21.810							A	100A53	1 1/4	64.2
54	100C54	22.210	C	1 1/2	4	6	3 1/4	78.0	A	100A54	1 1/4	68.0
55		22.610							A	100A55	1 1/4	70.0
56		23.010							A	100A56	1 1/4	72.0
57		23.410							A	100A57	1 1/4	75.8
58		23.810							A	100A58	1 1/4	76.0
59		24.200							A	100A59	1 1/4	77.0
60	100C60	24.600	C	1 1/2	4	6	3 3/4	89.0	A	100A60	1 1/4	80.0
70	100C70	28.580	C	1 1/2	5 1/4	7	3 3/4	125.0	A	100A70	1 1/4	113
72	100C72	29.380	C	1 1/2	5 1/4	7	3 3/4	134.0	A	100A72	1 1/4	119
76	100C76	30.973	C	1 1/2	5 1/4	7	3 3/4	143.0	A	100A76	1 1/4	133
80	100C80	32.570	C	1 1/2	5 1/4	7	3 3/4	151.0	A	100A80	1 1/4	146
84	100C84	34.160	C	1 1/2	5 1/4	7	3 3/4	170.0	A	100A84	1 1/4	162
90	100C90	36.550	C	1 1/2	5 1/4	7	3 3/4	184.0	A	100A90	1 1/4	193
96	100C96	38.930	C	1 1/2	5 1/4	7	4 1/2	203.0	A	100A96	1 1/4	215

★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

No. 100

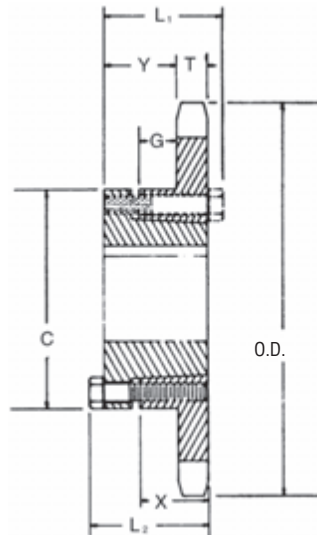
1 1/4" Pitch

All Steel Stock Sprockets

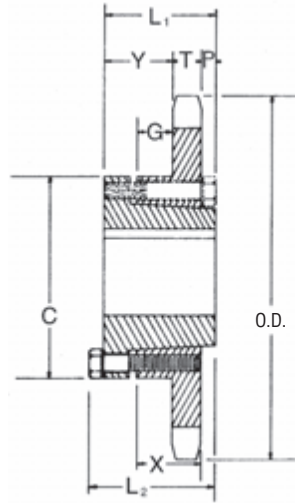
Single - Type QD With Hardened Teeth

No. Teeth	Catalog Number
11	100SDS11H
12	100SDS12H
13	100SK13H
14	100SK14H
15	100SF15H
16	100SF16H
17	100SF17H
18	100E18H
19	100E19H
20	100E20H
21	100E21H
22	100E22H
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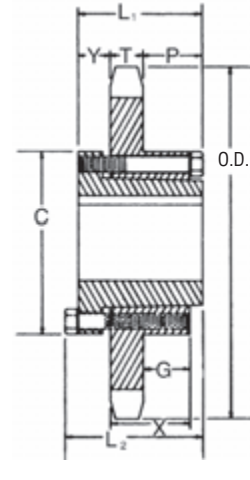
**SABER
TOOTH®**



QD — TYPE B



QD — TYPE B₁

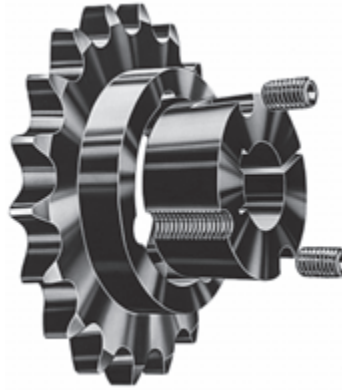


QD — TYPE C

Single - Type QD

No. Teeth	Catalog Number	Bush- ing	Diameters		Type	Max. Bore	Dimensions								Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter			L ₁	L ₂	C	Y	P	G	X	T	With Hub	Rim Only
11	100SDS11	SDS	5.010	4.437	B	2	1 1/2	1 1/2	3 3/8	3/8	—	1/8	3/8	0.692	3.0	2.0
12	100SDS12	SDS	5.420	4.830	B	2	1 1/2	1 1/2	3 3/8	3/8	—	1/8	3/8	0.692	3.6	2.6
13	100SK13	SK	5.820	5.223	B	2 1/2	2 1/2	3 3/8	1 1/4	—	3/8	1 1/4	0.692	5.3	3.3	
14	100SK14	SK	6.230	5.617	B	2 1/2	2 1/2	3 3/8	1 1/4	—	3/8	1 1/4	0.692	6.1	4.1	
15	100SF15	SF	6.630	6.012	B	2 5/8	2 1/4	4 1/2	1 1/4	—	3/8	1 1/4	0.692	7.8	4.8	
16	100SF16	SF	7.030	6.407	B	2 5/8	2 1/4	4 1/2	1 1/4	—	3/8	1 1/4	0.692	8.6	5.6	
17	100SF17	SF	7.440	6.803	B	2 5/8	2 1/4	4 1/2	1 1/4	—	3/8	1 1/4	0.692	9.5	6.5	
18	100E18	E	7.840	7.198	B1	3 1/2	2 1/2	6	1 1/8	1/2	1 5/8	1 1/8	0.692	19.0	9.0	
19	100E19	E	8.240	7.595	B1	3 1/2	2 1/2	6	1 1/8	1/2	1 5/8	1 1/8	0.692	20.2	10.2	
20	100E20	E	8.640	7.991	B1	3 1/2	2 1/2	6	1 1/8	1/2	1 5/8	1 1/8	0.692	21.6	11.6	
21	100E21	E	9.040	8.387	B1	3 1/2	2 1/2	6	1 1/8	1/2	1 5/8	1 1/8	0.692	22.5	12.5	
22	100E22	E	9.440	8.783	B1	3 1/2	2 1/2	6	1 1/8	1/2	1 5/8	1 1/8	0.692	23.5	13.5	
23	100E23	E	9.840	9.180	B1	3 1/2	2 1/2	6	1 1/8	1/2	1 5/8	1 1/8	0.692	24.6	14.6	
24	100E24	E	10.250	9.577	B1	3 1/2	2 1/2	6	1 1/8	1/2	1 5/8	1 1/8	0.692	25.7	15.7	
25	100E25	E	10.650	9.973	B1	3 1/2	2 1/2	6	1 1/8	1/2	1 5/8	1 1/8	0.692	26.8	16.8	
26	100E26	E	11.050	10.370	B1	3 1/2	2 1/2	6	1 1/8	1/2	1 5/8	1 1/8	0.692	28.1	18.1	
27	100E27	E	11.440	10.767	B1	3 1/2	2 1/2	6	1 1/8	1/2	1 5/8	1 1/8	0.692	29.2	19.2	
28	100E28	E	11.840	11.164	B1	3 1/2	2 1/2	6	1 1/8	1/2	1 5/8	1 1/8	0.692	30.7	20.7	
30	100E30	E	12.640	11.958	B1	3 1/2	2 1/2	6	1 1/8	1/2	1 5/8	1 1/8	0.692	33.2	23.2	
32	100E32	E	13.440	12.753	B1	3 1/2	2 1/2	6	1 1/8	1/2	1 5/8	1 1/8	0.692	35.4	25.4	
35	100E35	E	14.640	13.945	B1	3 1/2	2 1/2	6	1 1/8	1/2	1 5/8	1 1/8	0.692	40.5	30.5	
36	100E36	E	15.040	14.342	B1	3 1/2	2 1/2	6	1 1/8	1/2	1 5/8	1 1/8	0.692	42.5	32.3	
40	100E40	E	16.630	15.932	B1	3 1/2	2 1/2	6	1 1/8	1/2	1 5/8	1 1/8	0.692	49.1	39.1	
42	100E42	E	17.430	16.727	B1	3 1/2	2 1/2	6	1 1/8	1/2	1 5/8	1 1/8	0.692	53.4	43.4	
45	100E45	E	18.630	17.920	B1	3 1/2	2 1/2	6	1 1/8	1/2	1 5/8	1 1/8	0.692	58.9	48.9	
48	100E48	E	19.820	19.112	B1	3 1/2	2 1/2	6	1 1/8	1/2	1 5/8	1 1/8	0.692	64.0	54.0	
54	100E54	E	22.210	21.498	C	3 1/2	2 1/2	6	3/8	1 1/8	1 5/8	1 1/8	0.692	72.0	62.0	
60	100E60	E	24.600	23.884	C	3 1/2	2 1/2	6	3/8	1 1/8	1 5/8	1 1/8	0.692	84.0	74.0	
70	100F70	F	28.580	27.862	C	3 3/8	3 1/2	4	6 1/8	1	1 5/8	2 1/2	0.692	110.5	99.0	
72	100F72	F	29.380	28.657	C	3 3/8	3 1/2	4	6 1/8	1	1 5/8	2 1/2	0.692	117.5	106.0	
80	100F80	F	32.570	31.839	C	3 3/8	3 1/2	4	6 1/8	1	1 5/8	2 1/2	0.692	134.5	123.0	
84	100F84	F	34.160	33.430	C	3 3/8	3 1/2	4	6 1/8	1	1 5/8	2 1/2	0.692	151.5	140.0	

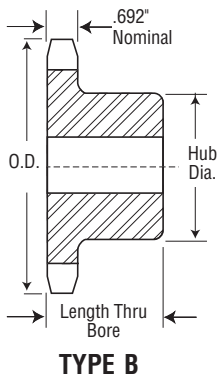
Single - Taper Bushed with Hardened Teeth



**SABER
TOOTH®**

No. Teeth	Catalog Number
11	100BTB11H
12	100BTB12H
13	100BTB13H
14	100BTB14H
15	100BTB15H
16	100BTB16H
17	100BTB17H
18	100BTB18H
19	100BTB19H
20	100BTB20H
21	100BTB21H
22	100BTB22H
24	100BTB24H
26	100BTB26H
28	100BTB28H
30	100BTB30H

Single - Taper Bushed

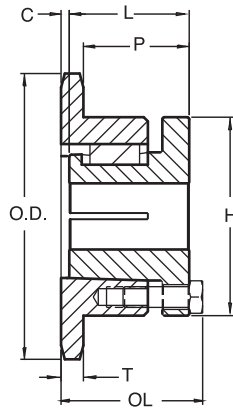


No. Teeth	Catalog Number	Bushing	Diameter		Max. Bore	Dimensions		Type	Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter		L	C		Rim Only	Bushing Only
11	100BTB11	1615	5.007	4.437	1½	1½	3	B	2.7	1.2
12	100BTB12	1615	5.415	4.830	1½	1½	3¼	B	3.5	1.2
13	100BTB13	2012	5.821	5.223	2	1½	3⅝	B	3.6	1.7
14	100BTB14	2012	6.227	5.617	2	1½	3⅝	B	3.9	1.7
15	100BTB15	2517	6.631	6.012	2½	1½	4¼	B	5.0	3.5
16	100BTB16	2517	7.034	6.407	2½	1½	4¼	B	6.4	3.5
17	100BTB17	2517	7.437	6.803	2½	1½	4¼	B	7.1	3.5
18	100BTB18	2517	7.839	7.198	2½	1½	4¼	B	7.8	3.5
19	100BTB19	2517	8.241	7.594	2½	1½	4¼	B	8.7	3.5
20	100BTB20	2517	8.642	7.991	2½	1½	4¼	B	9.6	3.5
21	100BTB21	2517	9.043	8.387	2½	1½	4¼	B	10.6	3.5
22	100BTB22	2517	9.444	8.783	2½	1½	4¼	B	11.0	3.5
24	100BTB24	2517	10.245	9.577	2½	1½	4¼	B	13.0	3.5
26	100BTB26	2517	11.045	10.370	2½	1½	4¼	B	15.0	3.5
28	100BTB28	3020	11.844	11.164	3	2	5¼	B	16.5	6.5
30	100BTB30	3020	12.643	11.958	3	2	5¼	B	22.0	6.5
32	100BTB32	3020	13.442	12.753	3	2	5¼	B	23.0	6.5
35	100BTB35	3020	14.639	13.945	3	2	5¼	B	28.0	6.5
36	100BTB36	3020	15.038	14.342	3	2	5¼	B	31.0	6.5
40	100BTB40	3020	16.633	15.932	3	2	5¼	B	37.0	6.5
45	100BTB45	3020	18.626	17.919	3	2	5¼	B	46.0	6.5
48	100BTB48	3020	19.821	19.112	3	2	5¼	B	53.0	6.5
54	100BTB54	3020	22.212	21.498	3	2	5¼	B	62.0	6.5
60	100BTB60	3020	24.601	23.884	3	2	5¼	B	72.0	6.5

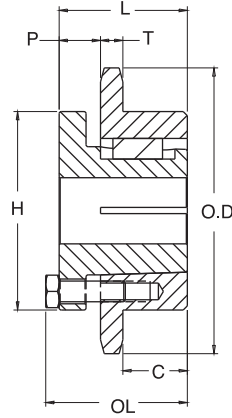
No. 100

1 1/4" Pitch

MST® Sprockets



TYPE 4



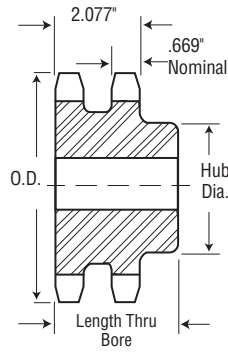
TYPE 5

Single - MST® Sprockets

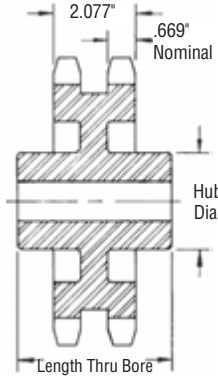
No. Teeth	Catalog Number	Bush- ing	Diameters		Type	Max. Bore	Dimensions						Weight Lbs. (Approx.)	
			Outside Dia.	Pitch Dia.			OL	L	C	H	P	T(nom)	With Hub	Rim Only
11	100P11H	P1	5.010	4.437	4	1-3/4	2-3/16	1-15/16	-	3	1-1/4	0.692	4.1	2.8
12	100Q12H	Q1	5.420	4.830	4	2-11/16	2-27/32	2-1/2	1/16	4-1/8	1-7/8	0.692	7.0	3.5
13	100Q13H	Q1	5.820	5.223	4	2-11/16	2-27/32	2-1/2	1/16	4-1/8	1-7/8	0.692	7.8	4.3
14	100Q14H	Q1	6.230	5.617	4	2-11/16	2-25/32	2-1/2	-	4-1/8	1-13/16	0.692	9.1	5.6
15	100Q15H	Q1	6.630	6.012	4	2-11/16	2-25/32	2-1/2	-	4-1/8	1-13/16	0.692	10.1	6.6
16	100Q16H	Q1	7.030	6.407	4	2-11/16	2-25/32	2-1/2	-	4-1/8	1-13/16	0.692	10.9	7.4
17	100Q17H	Q1	7.440	6.803	4	2-11/16	2-25/32	2-1/2	-	4-1/8	1-13/16	0.692	11.7	8.2
18	100Q18H	Q1	7.840	7.198	4	2-11/16	2-25/32	2-1/2	-	4-1/8	1-13/16	0.692	12.5	9.0
19	100Q19H	Q1	8.240	7.595	4	2-11/16	2-25/32	2-1/2	-	4-1/8	1-13/16	0.692	13.3	9.8
20	100Q20H	Q1	8.640	7.991	4	2-11/16	2-25/32	2-1/2	-	4-1/8	1-13/16	0.692	14.4	10.9
21	100Q21H	Q1	9.040	8.387	4	2-11/16	2-25/32	2-1/2	-	4-1/8	1-13/16	0.692	15.3	11.8
21	100R21H	R1	9.040	8.387	4	3-3/4	3-5/32	2-7/8	-	5-3/8	2-3/16	0.692	20.8	13.3
22	100Q22H	Q1	9.440	8.783	4	2-11/16	2-25/32	2-1/2	-	4-1/8	1-13/16	0.692	16.1	12.6
23	100Q23H	Q1	9.840	9.180	4	2-11/16	2-25/32	2-1/2	-	4-1/8	1-13/16	0.692	17.3	13.8
24	100Q24H	Q1	10.250	9.577	4	2-11/16	2-25/32	2-1/2	-	4-1/8	1-13/16	0.692	18.9	15.4
24	100R24H	R1	10.250	9.577	4	3-3/4	3-5/32	2-7/8	-	5-3/8	2-3/16	0.692	23.1	15.6
25	100Q25H	Q1	10.650	9.973	4	2-11/16	2-25/32	2-1/2	-	4-1/8	1-13/16	0.692	19.5	16.0
25	100R25H	R1	10.650	9.973	4	3-3/4	3-5/32	2-7/8	-	5-3/8	2-3/16	0.692	24.5	17.0
26	100Q26H	Q1	11.050	10.370	4	2-11/16	2-25/32	2-1/2	-	4-1/8	1-13/16	0.692	20.8	17.3
26	100R26H	R1	11.050	10.370	4	3-3/4	3-5/32	2-7/8	-	5-3/8	2-3/16	0.692	25.4	17.9
27	100Q27H	Q1	11.440	10.767	4	2-11/16	2-25/32	2-1/2	-	4-1/8	1-13/16	0.692	21.7	18.2
27	100R27H	R1	11.440	10.767	4	3-3/4	3-5/32	2-7/8	-	5-3/8	2-3/16	0.692	27.1	19.6
28	100Q28H	Q1	11.840	11.164	4	2-11/16	2-25/32	2-1/2	-	4-1/8	1-13/16	0.692	23.1	19.6
28	100R28H	R1	11.840	11.164	4	3-3/4	3-5/32	2-7/8	-	5-3/8	2-3/16	0.692	28.5	21.0
30	100Q30H	Q1	12.640	11.958	4	2-11/16	2-25/32	2-1/2	-	4-1/8	1-13/16	0.692	25.9	22.4
30	100R30H	R1	12.640	11.958	4	3-3/4	3-5/32	2-7/8	-	5-3/8	2-3/16	0.692	32.0	24.5
32	100Q32	Q1	13.440	12.753	4	2-11/16	2-25/32	2-1/2	-	4-1/8	1-13/16	0.692	28.8	25.3
32	100R32	R1	13.440	12.753	4	3-3/4	3-5/32	2-7/8	-	5-3/8	2-3/16	0.692	34.0	26.5
35	100Q35	Q1	14.640	13.945	4	2-11/16	2-25/32	2-1/2	-	4-1/8	1-13/16	0.692	33.7	30.2
35	100R35	R1	14.640	13.945	4	3-3/4	3-5/32	2-7/8	-	5-3/8	2-3/16	0.692	37.3	29.8
36	100R36	R1	15.040	14.342	4	3-3/4	3-5/32	2-7/8	-	5-3/8	2-3/16	0.692	40.5	33.0
40	100R40	R1	16.630	15.932	4	3-3/4	3-5/32	2-7/8	-	5-3/8	2-3/16	0.692	48.4	40.9
42	100R42	R1	17.430	16.727	4	3-3/4	3-5/32	2-7/8	-	5-3/8	2-3/16	0.692	51.8	44.3
45	100R45	R1	18.630	17.920	4	3-3/4	3-5/32	2-7/8	-	5-3/8	2-3/16	0.692	58.0	50.5
48	100R48	R1	19.820	19.112	4	3-3/4	3-5/32	2-7/8	-	5-3/8	2-3/16	0.692	65.0	57.5
54	100R54	R1	22.210	21.498	5	3-3/4	3-5/32	2-7/8	1-5/16	5-3/8	7/8	0.692	76.5	69.0
60	100R60	R1	24.600	23.884	5	3-3/4	3-5/32	2-7/8	1-5/16	5-3/8	7/8	0.692	91.5	84.0
70	100R70	R1	28.580	27.862	5	3-3/4	3-5/32	2-7/8	1-5/16	5-3/8	7/8	0.692	111.5	104.0
72	100R72	R1	29.380	28.657	5	3-3/4	3-5/32	2-7/8	1-5/16	5-3/8	7/8	0.692	113.5	106.0
80	100R80	R1	32.570	31.839	5	3-3/4	3-5/32	2-7/8	1-5/16	5-3/8	7/8	0.692	142.5	135.0
84	100R84	R1	34.160	33.430	5	3-3/4	3-5/32	2-7/8	1-5/16	5-3/8	7/8	0.692	145.5	138.0

Sprockets with "H" suffix have hardened teeth.

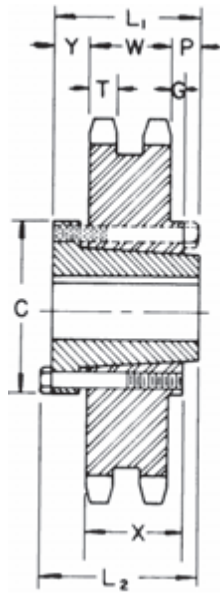
Double - Type B & C



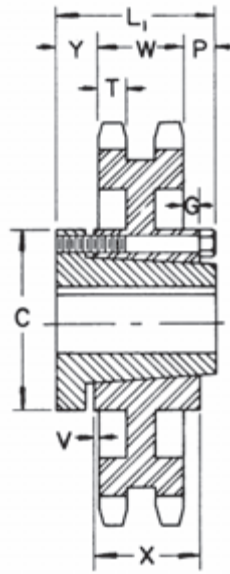
TYPE B



TYPE C



QD — TYPE C₂



QD — TYPE C₆

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)
				Stock	Rec. Max.	Dia.	Length Thru	
9	D100B9	4.180	B	1	1 1/8	2 3/8	2 1/8	4.6
10	D100B10	4.600	B	1	1 1/8	2 3/8	2 1/8	6.2
11	D100B11	5.010	B	1	2 1/8	3 1/8	2 1/8	7.9
12	D100B12	5.420	B	1 1/8	2 1/8	3 1/8	2 1/8	9.3
13	D100B13	5.820	B	1 1/8	2 1/8	3 1/8	2 1/8	11.4
14	D100B14	6.230	B	1 1/8	2 1/8	4 1/8	2 1/8	13.6
15	D100B15	6.630	B	1 1/8	3 1/8	4 1/8	3 1/8	17.1
16	D100B16	7.030	B	1 1/8	3 1/8	5	3 1/8	20.1
17	D100B17	7.440	B	1 1/8	3 1/8	5 1/8	3 1/8	23.1
18	D100B18	7.840	B	1 1/8	3 1/8	5 1/8	3 1/8	25.4
19	D100B19	8.240	B	1 1/8	3 1/8	5 1/8	3 1/8	29.6
20	D100B20	8.640	B	1 1/8	3 1/8	5 1/8	3 1/8	32.4
21	D100B21	9.040	B	1 1/8	3 1/8	5 1/8	3 1/8	35.3
22	D100B22	9.440	B	1 1/8	3 1/8	5 1/8	3 1/8	38.4
23	D100B23	9.840	B	1 1/8	3 1/8	5 1/8	3 1/8	41.3
24	D100B24	10.250	B	1 1/8	3 1/8	5 1/8	3 1/8	45.1
25	D100B25	10.650	B	1 1/8	3 1/8	5 1/8	3 1/8	48.5
26	D100B26	11.050	B	1 1/8	3 1/8	5 1/8	3 1/8	51.5
30	D100B30	12.640	B	1 1/8	3 1/8	5 1/8	3 1/8	65.0
35	D100C35	14.640	C	1 1/2	3 3/8	6	4 1/4	75.0
45	D100C45	18.630	C	1 1/2	3 3/8	6	4 1/4	103.0
60	D100C60	24.600	C	1 1/2	5	7 1/2	5	175.0
70	D100C70	28.580	C	1 1/2	5	7 1/2	5	197.0
80	D100C80	32.570	C	1 1/2	5	7 1/2	5	231.0

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.



Alteration Charges

See current discount sheet for alteration charges.

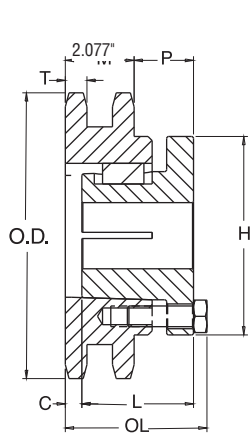
Double - Type QD

No. Teeth	Catalog Number	Bush-ing	Diameters		Type	Max. Bore	Dimensions										Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter			L ₁	L ₂	C	Y	P	G	V	X	T	W	With Hub	Rim Only
35	D100F35	F	14.640	13.945	C2	3 1/8	3 3/8	4	6 3/8	1	3/64	27/64	—	2 1/2	0.669	2.077	84.5	73.0
45	D100F45	F	18.630	17.920	C2	3 1/8	3 3/8	4	6 3/8	1	3/64	27/64	—	2 1/2	0.669	2.077	92.5	81.0
60	D100J60	J	24.600	23.884	C6	4 1/8	4 1/2	5	7 1/4	1 1/32	1 1/64	1 1/32	1/32	3 3/16	0.669	2.077	152.0	133.0
70	D100J70	J	28.580	27.862	C6	4 1/8	4 1/2	5	7 1/4	1 1/32	1 1/64	1 1/32	1/32	3 3/16	0.669	2.077	180.0	161.0
80	D100J80	J	32.570	31.839	C6	4 1/8	4 1/2	5	7 1/4	1 1/32	1 1/64	1 1/32	1/32	3 3/16	0.669	2.077	215.0	196.0

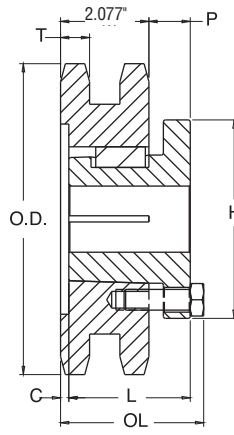
No. 100-2

1 1/4" Pitch

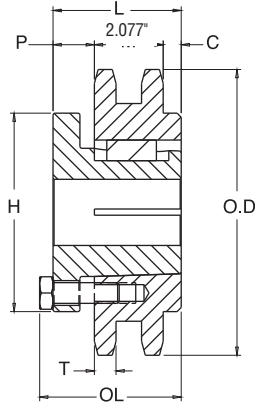
MST® Sprockets



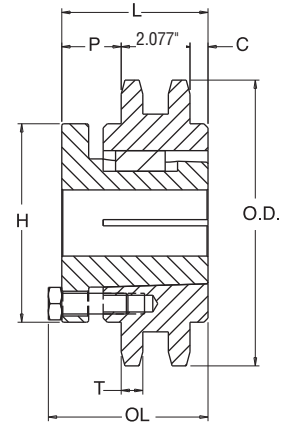
TYPE 12



TYPE 14



TYPE 15

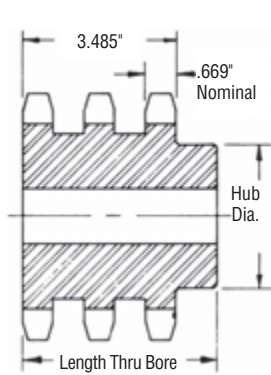


TYPE 18

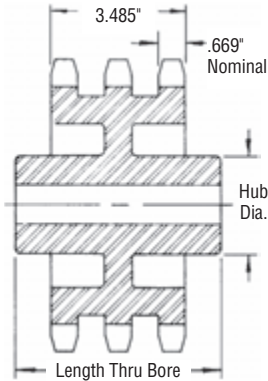
Double - MST® Sprockets

No. Teeth	Catalog Number	Bush-ing	Diameters		Type	Max. Bore	Dimensions						Weight Lbs. (Approx.)	
			Outside Dia.	Pitch Dia.			OL	L	C	H	P	T(nom)	With Hub	Rim Only
11	D100P11H	P1	5.010	4.437	14	1-3/4	2-15/16	1-15/16	3/4	3	5/8	0.669	6.0	4.7
12	D100Q12H	Q2	5.420	4.830	12	2-5/8	4-7/32	3-1/2	7/16	4-1/8	1-55/64	0.669	10.4	5.9
13	D100Q13H	Q2	5.820	5.223	12	2-5/8	4-7/32	3-1/2	7/16	4-1/8	1-55/64	0.669	12.4	7.9
14	D100Q14H	Q1	6.230	5.617	14	2-11/16	3-3/32	2-1/2	5/16	4-1/8	3/4	0.669	10.9	7.4
15	D100Q15H	Q1	6.630	6.012	14	2-11/16	3-3/32	2-1/2	5/16	4-1/8	3/4	0.669	12.6	9.1
16	D100Q16H	Q1	7.030	6.407	14	2-11/16	3-3/32	2-1/2	5/16	4-1/8	3/4	0.669	14.4	10.9
17	D100R17H	R1	7.440	6.803	14	3-3/4	3-7/32	2-7/8	1/16	5-3/8	7/8	0.669	17.5	10.0
18	D100R18H	R1	7.840	7.198	14	3-3/4	3-7/32	2-7/8	1/16	5-3/8	7/8	0.669	19.8	12.3
19	D100R19	R1	8.240	7.595	14	3-3/4	3-7/32	2-7/8	1/16	5-3/8	7/8	0.669	22.4	14.9
20	D100R20	R1	8.640	7.991	14	3-3/4	3-7/32	2-7/8	1/16	5-3/8	7/8	0.669	24.9	17.4
21	D100R21	R1	9.040	8.387	14	3-3/4	3-7/32	2-7/8	1/16	5-3/8	7/8	0.669	27.8	20.3
22	D100R22	R1	9.440	8.783	14	3-3/4	3-7/32	2-7/8	1/16	5-3/8	7/8	0.669	30.3	22.8
24	D100R24	R1	10.250	9.577	14	3-3/4	3-7/32	2-7/8	1/16	5-3/8	7/8	0.669	37.0	29.5
35	D100R35	R1	14.640	13.945	14	3-3/4	3-7/32	2-7/8	1/16	5-3/8	7/8	0.669	84.3	76.8
45	D100S45	S1	18.630	17.920	15	4-1/4	4-3/4	4-3/8	1-15/64	6-3/8	1-1/16	0.669	151.5	138.0
60	D100S60	S1	24.600	23.884	15	4-1/4	4-3/4	4-3/8	1-15/64	6-3/8	1-1/16	0.669	264.5	251.0
70	D100S70	S1	28.580	27.862	18	4-1/4	7-1/8	6-3/4	2-1/4	6-3/8	2-7/16	0.669	371.5	358.0
80	D100S80	S1	32.570	31.839	18	4-1/4	7-1/8	6-3/4	2-1/4	6-3/8	2-7/16	0.669	444.5	431.0

Sprockets with "H" suffix have hardened teeth.



TYPE B

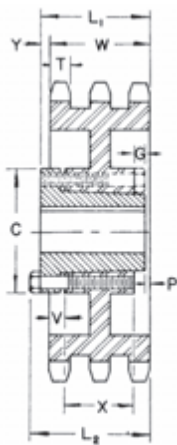


TYPE C

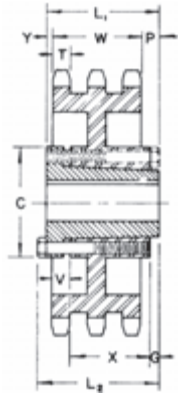


Triple - Type B & C

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)
				Stock	Rec. Max.	Dia.	Length Thru	
11	E100B11	5.010	B	1	2 1/2	3 1/2	4 1/2	11.7
12	E100B12	5.420	B	1 1/2	2 1/2	3 3/8	4 1/2	13.7
13	E100B13	5.820	B	1 1/2	2 1/2	3 3/8	4 1/2	16.9
14	E100B14	6.230	B	1 1/2	2 1/2	4 1/8	4 1/2	20.2
15	E100B15	6.630	B	1 1/2	3 3/8	4 1/2	4 1/2	25.0
16	E100B16	7.030	B	1 1/2	3 3/8	5	4 1/2	29.3
17	E100B17	7.440	B	1 1/2	3 3/8	5 1/2	4 1/2	33.8
18	E100B18	7.840	B	1 1/2	3 3/8	5 1/2	4 1/2	38.6
19	E100B19	8.240	B	1 1/2	3 3/8	5 1/2	4 1/2	43.3
20	E100B20	8.640	B	1 1/2	3 3/8	5 1/2	4 1/2	47.9
21	E100B21	9.040	B	1 1/2	3 3/8	5 1/2	4 1/2	52.3
22	E100B22	9.440	B	1 1/2	3 3/8	5 1/2	4 1/2	57.5
23	E100B23	9.840	B	1 1/2	3 3/8	5 1/2	4 1/2	62.5
24	E100B24	10.250	B	1 1/2	3 3/8	5 1/2	4 1/2	69.0
25	E100B25	10.650	B	1 1/2	3 3/8	5 1/2	4 1/2	73.0
26	E100B26	11.050	B	1 1/2	3 3/8	5 1/2	4 1/2	79.0
30	E100B30	12.640	B	1 1/2	3 3/8	5 1/2	4 1/2	103.0
35	E100C35	14.640	C	1 1/2	4	6	5	108.0
45	E100C45	18.630	C	1 1/2	4	6	5	143.0
60	E100C60	24.600	C	1 1/2	5 3/8	7 1/2	5	217.0
70	E100C70	28.580	C	1 1/2	5 3/8	7 1/2	5	262.0
80	E100C80	32.570	C	1 1/2	5 3/8	7 1/2	5	313.0



QD — TYPE B₁



QD — TYPE C₃

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

Alteration Charges

See current discount sheet for alteration charges.

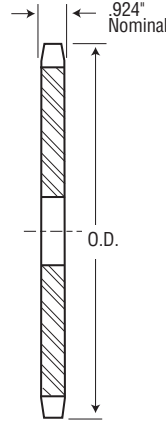
Triple - Type QD

No. Teeth	Catalog Number	Bush- ing	Diameters		Type	Max. Bore	Dimensions										Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter			L ₁	L ₂	C	Y	P	G	V	X	T	W	With Hub	Rim Only
35	E100F35	F	14.640	13.945	B1	3 1/16	3 3/4	4 3/4	6 3/8	1/2	3/4	1/8	1/2	2 1/2	0.669	3.485	112	100
45	E100F45	F	18.630	17.820	B1	3 1/16	3 3/4	4 3/4	6 3/8	1/2	3/4	1/8	1/2	2 1/2	0.669	3.485	139	120
60	E100J60	J	24.600	28.884	C3	4 1/16	4 1/2	5	7 1/4	1/2	3/4	3/8	1 1/16	3 3/16	0.669	3.485	197	178
70	E100J70	J	28.580	27.862	C3	4 1/16	4 1/2	5	7 1/4	1/2	3/4	3/8	1 1/16	3 3/16	0.669	3.485	247	228
80	E100J80	J	32.570	31.839	C3	4 1/16	4 1/2	5	7 1/4	1/2	3/4	3/8	1 1/16	3 3/16	0.669	3.485	287	268

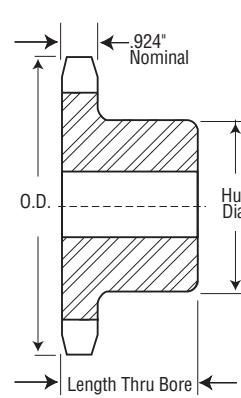
No. 120

1½" Pitch

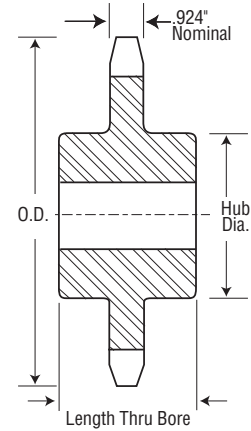
All Steel Stock Sprockets



TYPE A



TYPE B



TYPE C

Single - Type B & C

Single - Type A

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)	Type	Catalog Number	Stock Bore	Weight Lbs. (Approx.)
				Stock	Rec. Max.	Dia.	Length Thru					
8	—	4.520	B	—	—	—	—	—	A	120A8	1¼	2.4
9	120B9	5.020	B	1¾	1½	3¾**	2¼	5.3	A	120A9	1¼	3.0
10	120B10	5.520	B	1¾	2¼	3¾**	2¼	7.1	A	120A10	1¼	3.8
11	120B11	6.010	B	1¾	2¾	3¾	2¼	7.6	A	120A11	1¼	4.8
12	120B12	6.500	B	1¾	2¾	4¾	2¼	9.9	A	120A12	1¼	5.8
13	120B13	6.990	B	1¾	3	4¾	2¼	12.4	A	120A13	1¼	6.7
14	120B14	7.470	B	1¾	3¼	4¾	2¼	14.4	A	120A14	1¼	8.0
15	120B15	7.960	B	1¾	3¼	4¾	2¾	16.7	A	120A15	1¼	9.1
16	120B16	8.440	B	1¾	3½	5¾	2¾	19.9	A	120A16	1¼	10.6
17	120B17	8.920	B	1¾	3½	5¾	2¾	20.8	A	120A17	1¼	12.6
18	120B18	9.410	B	1¾	3½	5¾	2¾	22.2	A	120A18	1¼	13.6
19	120B19	9.890	B	1¾	3½	5¾	2¾	24.8	A	120A19	1¼	15.1
20	120B20	10.370	B	1¾	3½	5¾	2¾	25.8	A	120A20	1¼	16.9
21	120B21	10.850	B	1¾	3½	5¾	2¾	26.7	A	120A21	1¼	18.7
22	120B22	11.330	B	1¾	3½	5¾	2¾	28.2	A	120A22	1¼	20.0
23	120B23	11.810	B	1¾	3½	5¾	2¾	30.3	A	120A23	1¼	22.1
24	120B24	12.290	B	1¾	3½	5¾	2¾	32.1	A	120A24	1¼	24.8
25	120B25	12.770	B	1¾	3½	5¾	2¾	34.6	A	120A25	1¼	26.8
26	120B26	13.250	B	1¾	4	6	2¾	40.0	A	120A26	1½	28.3
27	—	13.730	—	—	—	—	—	—	A	120A27	1½	30.9
28	120B28	14.210	B	1½	4	6	2¾	44.9	A	120A28	1½	33.6
30	120B30	15.170	B	1½	4	6	2¾	50.2	A	120A30	1½	39.0
32	120B32	16.130	B	1½	4	6	2¾	56.0	A	120A32	1½	43.9
33	—	16.610	—	—	—	—	—	—	A	120A33	1½	48.2
34	—	17.090	—	—	—	—	—	—	A	120A34	1½	50.0
35	120B35	17.570	B	1½	4	6	2¾	62.4	A	120A35	1½	52.0
36	120B36	18.050	B	1½	4	6	2¾	66.4	A	120A36	1½	56.0
40	120C40	19.960	C	1½	4	6	3¾	92.0	A	120A40	1½	71.0
42	120C42	20.920	C	1½	4	6	3¾	98.0	A	120A42	1½	75.0
45	120C45	22.350	C	1½	4	6	3¾	99.2	A	120A45	1½	88.0
48	120C48	23.790	C	1½	4	6	4	113.0	A	120A48	1½	103.0
54	120C54	26.650	C	1½	4	6	4	133.0	A	120A54	1½	140.0
60	120C60	29.520	C	1½	5¾	7	4	160.0	A	120A60	1½	160.0
70	120C70	34.300	C	1½	5¾	7½	4½	206.0	A	120A70	1½	216.0
80	120C80	39.080	C	1½	5¾	7½	4½	254.0	A	120A80	1½	284.0
90	—	43.850	—	—	—	—	—	—	A	120A90	1½	358.0

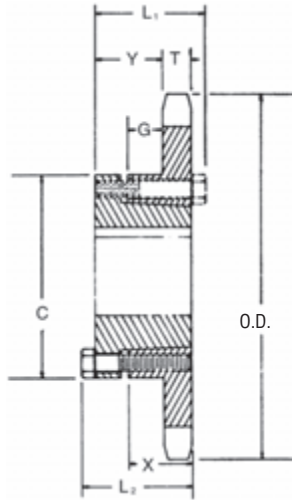
** Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

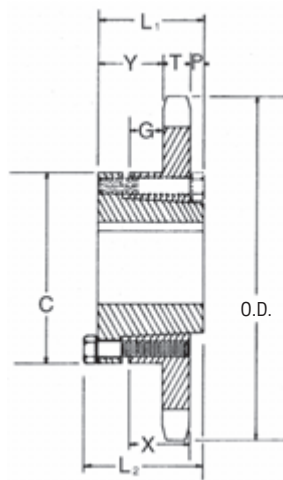
Alteration Charges

See current discount sheet for alteration charges.

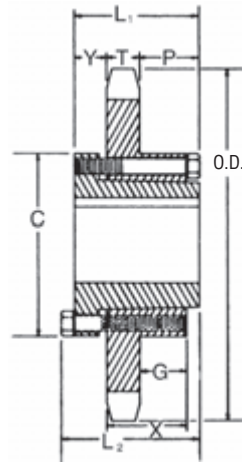
Single - Type QD With Hardened Teeth



QD — TYPE B



QD — TYPE B₁



QD — TYPE C

**S
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T**[®]

No. Teeth	Catalog Number
12	120SF12H
13	120SF13H
14	120SF14H
15	120SF15H
16	120E16H
17	120E17H
18	120E18H
19	120E19H
20	120E20H
21	120E21H
22	120E22H
23	120E23H
24	120E24H
25	120E25H
26	120E26H
28	120E28H
30	120E30H

Single - Type QD

No. Teeth	Catalog Number	Bush- ing	Diameters		Type	Max. Bore	Dimensions								Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter			L ₁	L ₂	C	Y	P	G	X	T	With Hub	Rim Only
12	120SF12	SF	6.500	5.796	B	2 ¹ / ₁₆	2 ¹ / ₄	2 ¹ / ₄	4 ¹ / ₈	1 ¹ / ₄	—	3 ¹ / ₁₆	1 ¹ / ₄	0.924	7.7	4.7
13	120SF13	SF	6.990	6.268	B	2 ¹ / ₁₆	2 ¹ / ₄	2 ¹ / ₄	4 ¹ / ₈	1 ¹ / ₄	—	3 ¹ / ₁₆	1 ¹ / ₄	0.924	9.1	6.1
14	120SF14	SF	7.470	6.741	B	2 ¹ / ₁₆	2 ¹ / ₄	2 ¹ / ₄	4 ¹ / ₈	1 ¹ / ₄	—	3 ¹ / ₁₆	1 ¹ / ₄	0.924	10.4	7.4
15	120SF15	SF	7.960	7.215	B	2 ¹ / ₁₆	2 ¹ / ₄	2 ¹ / ₄	4 ¹ / ₈	1 ¹ / ₄	—	3 ¹ / ₁₆	1 ¹ / ₄	0.924	11.8	8.0
16	120E16	E	8.440	7.689	B1	3 ¹ / ₈	2 ⁵ / ₈	2 ¹ / ₁₆	6	1 ¹ / ₁₆	1 ¹ / ₈	5 ¹ / ₁₆	1 ¹ / ₈	0.924	21.2	11.2
17	120E17	E	8.920	8.163	B1	3 ¹ / ₈	2 ⁵ / ₈	2 ¹ / ₁₆	6	1 ¹ / ₁₆	1 ¹ / ₈	5 ¹ / ₁₆	1 ¹ / ₈	0.924	23.4	13.4
18	120E18	E	9.410	8.638	B1	3 ¹ / ₈	2 ⁵ / ₈	2 ¹ / ₁₆	6	1 ¹ / ₁₆	1 ¹ / ₈	5 ¹ / ₁₆	1 ¹ / ₈	0.924	24.8	14.8
19	120E19	E	9.890	9.113	B1	3 ¹ / ₈	2 ⁵ / ₈	2 ¹ / ₁₆	6	1 ¹ / ₁₆	1 ¹ / ₈	5 ¹ / ₁₆	1 ¹ / ₈	0.924	26.5	16.5
20	120E20	E	10.370	9.589	B1	3 ¹ / ₈	2 ⁵ / ₈	2 ¹ / ₁₆	6	1 ¹ / ₁₆	1 ¹ / ₈	5 ¹ / ₁₆	1 ¹ / ₈	0.924	29.2	19.2
21	120E21	E	10.850	10.064	B1	3 ¹ / ₈	2 ⁵ / ₈	2 ¹ / ₁₆	6	1 ¹ / ₁₆	1 ¹ / ₈	5 ¹ / ₁₆	1 ¹ / ₈	0.924	29.9	19.9
22	120E22	E	11.330	10.540	B1	3 ¹ / ₈	2 ⁵ / ₈	2 ¹ / ₁₆	6	1 ¹ / ₁₆	1 ¹ / ₈	5 ¹ / ₁₆	1 ¹ / ₈	0.924	31.6	21.6
23	120E23	E	11.810	11.016	B1	3 ¹ / ₈	2 ⁵ / ₈	2 ¹ / ₁₆	6	1 ¹ / ₁₆	1 ¹ / ₈	5 ¹ / ₁₆	1 ¹ / ₈	0.924	33.8	23.8
24	120E24	E	12.290	11.492	B1	3 ¹ / ₈	2 ⁵ / ₈	2 ¹ / ₁₆	6	1 ¹ / ₁₆	1 ¹ / ₈	5 ¹ / ₁₆	1 ¹ / ₈	0.924	35.8	25.8
25	120E25	E	12.770	11.968	B1	3 ¹ / ₈	2 ⁵ / ₈	2 ¹ / ₁₆	6	1 ¹ / ₁₆	1 ¹ / ₈	5 ¹ / ₁₆	1 ¹ / ₈	0.924	38.1	28.1
26	120E26	E	13.250	12.444	B1	3 ¹ / ₈	2 ⁵ / ₈	2 ¹ / ₁₆	6	1 ¹ / ₁₆	1 ¹ / ₈	5 ¹ / ₁₆	1 ¹ / ₈	0.924	39.9	29.9
28	120E28	E	14.210	13.397	B1	3 ¹ / ₈	2 ⁵ / ₈	2 ¹ / ₁₆	6	1 ¹ / ₁₆	1 ¹ / ₈	5 ¹ / ₁₆	1 ¹ / ₈	0.924	49.7	34.7
30	120E30	E	15.170	14.350	B1	3 ¹ / ₈	2 ⁵ / ₈	2 ¹ / ₁₆	6	1 ¹ / ₁₆	1 ¹ / ₈	5 ¹ / ₁₆	1 ¹ / ₈	0.924	49.4	39.4
32	120F32	F	16.130	15.303	C	3 ³ / ₁₆	3 ³ / ₈	4	6 ¹ / ₈	1	1 ¹ / ₁₆	1 ³ / ₁₆	2 ¹ / ₂	0.924	62.0	50.5
35	120F35	F	17.570	16.734	C	3 ³ / ₁₆	3 ³ / ₈	4	6 ¹ / ₈	1	1 ¹ / ₁₆	1 ³ / ₁₆	2 ¹ / ₂	0.924	71.0	59.5
36	120F36	F	18.050	17.211	C	3 ³ / ₁₆	3 ³ / ₈	4	6 ¹ / ₈	1	1 ¹ / ₁₆	1 ³ / ₁₆	2 ¹ / ₂	0.924	74.9	63.4
40	120F40	F	19.960	19.118	C	3 ³ / ₁₆	3 ³ / ₈	4	6 ¹ / ₈	1	1 ¹ / ₁₆	1 ³ / ₁₆	2 ¹ / ₂	0.924	88.5	77.0
42	120F42	F	20.920	20.072	C	3 ³ / ₁₆	3 ³ / ₈	4	6 ¹ / ₈	1	1 ¹ / ₁₆	1 ³ / ₁₆	2 ¹ / ₂	0.924	94.5	83.0
45	120F45	F	22.350	21.503	C	3 ³ / ₁₆	3 ³ / ₈	4	6 ¹ / ₈	1	1 ¹ / ₁₆	1 ³ / ₁₆	2 ¹ / ₂	0.924	95.5	84.0
48	120F48	F	23.790	22.935	C	3 ³ / ₁₆	3 ³ / ₈	4	6 ¹ / ₈	1	1 ¹ / ₁₆	1 ³ / ₁₆	2 ¹ / ₂	0.924	103.5	92.0
54	120F54	F	26.650	25.798	C	3 ³ / ₁₆	3 ³ / ₈	4	6 ¹ / ₈	1	1 ¹ / ₁₆	1 ³ / ₁₆	2 ¹ / ₂	0.924	125.0	114.0
60	120J60	J	29.520	28.661	C	4 ¹ / ₁₆	4 ¹ / ₂	5	7 ¹ / ₈	1 ¹ / ₁₆	2 ¹ / ₁₆	2 ¹ / ₁₆	3 ³ / ₁₆	0.924	159.0	140.0
70	120J70	J	34.300	33.434	C	4 ¹ / ₁₆	4 ¹ / ₂	5	7 ¹ / ₈	1 ¹ / ₁₆	2 ¹ / ₁₆	2 ¹ / ₁₆	3 ³ / ₁₆	0.924	196.0	177.0
80	120J80	J	39.080	38.207	C	4 ¹ / ₁₆	4 ¹ / ₂	5	7 ¹ / ₈	1 ¹ / ₁₆	2 ¹ / ₁₆	2 ¹ / ₁₆	3 ³ / ₁₆	0.924	241.0	222.0

No. 120

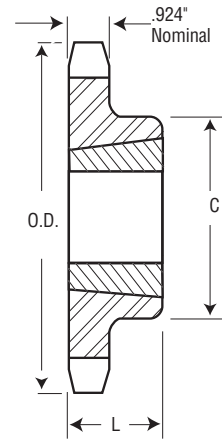
1½" Pitch

All Steel Stock Sprockets



Single - Taper Bushed

No. Teeth	Catalog Number	Bushing	Diameter		Max. Bore	Dimensions		Type	Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter		L	C		Rim Only	Bushing Only
12	120BTB12	2012	6.498	5.796	2	1¼	3⅞	B	5.5	1.7
13	120BTB13	2517	6.896	6.268	2½	1¼	4¼	B	6.0	3.5
14	120BTB14	2517	7.472	6.741	2½	1¼	4¼	B	7.0	3.5
15	120BTB15	2517	7.957	7.215	2½	1¼	4¼	B	8.0	3.5
16	120BTB16	3020	8.441	7.689	3	2	5¼	B	10.0	6.5
17	120BTB17	3020	8.924	8.163	3	2	5¼	B	11.0	6.5
18	120BTB18	3020	9.407	8.638	3	2	5¼	B	12.0	6.5
19	120BTB19	3020	9.889	9.113	3	2	5¼	B	14.0	6.5
20	120BTB20	3020	10.371	9.588	3	2	5¼	B	15.5	6.5
21	120BTB21	3020	10.851	10.064	3	2	5¼	B	17.5	6.5
24	120BTB24	3020	12.294	11.492	3	2	5¼	B	23.5	6.5
26	120BTB26	3020	13.254	12.444	3	2	5¼	B	28.5	6.5
30	120BTB30	3020	15.171	14.351	3	2	5¼	B	33.5	6.5
35	120CTB35	3020	17.566	16.734	3	2	5¼	C	52.0	6.5
45	120CTB45	3030	22.351	21.503	3	3	5¼	C	82.0	9.2
60	120CTB60	3535	29.522	28.661	3½	3½	6¼	C	140.0	14.0
70	120CTB70	3535	34.301	33.434	3½	3½	6¼	C	175.0	14.0
80	120CTB80	3535	39.078	38.207	3½	3½	6¼	C	220.0	14.0

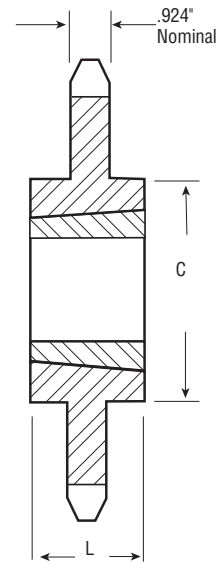
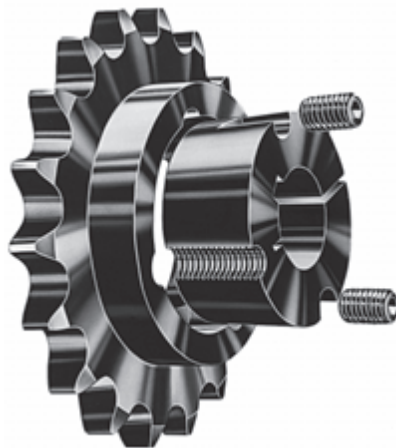


TYPE B

Single - Taper Bushed with Hardened Teeth

No. Teeth	Catalog Number
12	120BTB12 H
13	120BTB13 H
14	120BTB14 H
15	120BTB15 H
16	120BTB16 H
17	120BTB17 H
18	120BTB18 H
19	120BTB19 H
20	120BTB20 H
21	120BTB21 H
24	120BTB24 H
26	120BTB26 H
30	120BTB30 H

SABER TOOTH®



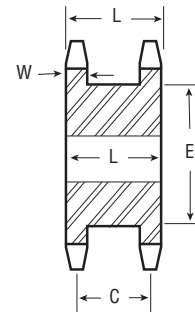
TYPE C

Single - Type C — Steel 1½" Pitch

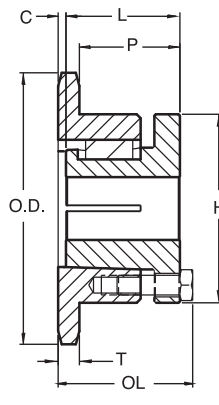
No. Teeth	Catalog Number	Outside Diameter	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)
			Stock	Rec. Max.	Diameter	Length	
11	120C11	6.010	1%	2%	3⅞	3%	12.45
12	120C12	6.500	1%	2¼	4⅞	3%	14.80
13	120C13	6.990	1%	3	4%	3%	17.15
14	120C14	7.470	1%	3¼	4%	3%	19.50

Double Single - Type A — Steel

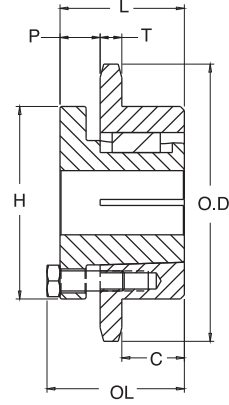
No. Teeth	Catalog Number	Diameters		Type	Min. Bore	Max. Bore	Dimensions			Wt. Lbs. (Approx.)	
		Outside Diameter	Pitch Diameter				L	C	E		
15	DS120A15	7.960	7.215	A	1⅞	3¼	3⅞	2⅞	5⅞	0.924	30.0
16	DS120A16	8.440	7.689	A	1⅞	4	3⅞	2⅞	6	0.924	34.0
17	DS120A17	8.920	8.163	A	1⅞	4⅞	3⅞	2⅞	6⅞	0.924	37.0
18	DS120A18	9.410	8.638	A	1⅞	5⅞	3⅞	2⅞	6⅞	0.924	42.0
19	DS120A19	9.890	9.113	A	1⅞	5⅞	3⅞	2⅞	7⅞	0.924	47.0
20	DS120A20	10.370	9.589	A	1⅞	5⅞	3⅞	2⅞	7⅞	0.924	51.0



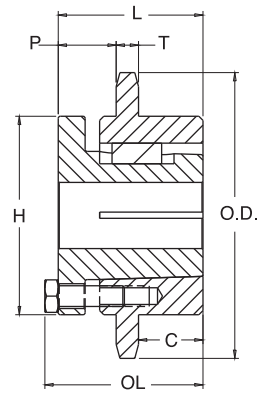
TYPE A



TYPE 4



TYPE 5



TYPE 6

Single - MST® Sprockets

No. Teeth	Catalog Number	Bush- ing	Diameters		Type	Max. Bore	Dimensions							Weight Lbs. (Approx.)	
			Outside Dia.	Pitch Dia.			OL	L	C	H	P	T(nom)	With Hub	Rim Only	
11	120Q11H	Q1	6.010	5.324	4	2-11/16	2-25/32	2-1/2	-	4-1/8	1 9/16	0.924	8.3	4.8	
12	120Q12H	Q1	6.500	5.796	4	2-11/16	2-25/32	2-1/2	-	4-1/8	1 9/16	0.924	9.8	6.3	
13	120Q13H	Q1	6.990	6.268	4	2-11/16	2-25/32	2-1/2	-	4-1/8	1 9/16	0.924	11.4	7.9	
14	120Q14H	Q1	7.470	6.741	4	2-11/16	2-25/32	2-1/2	-	4-1/8	1 9/16	0.924	12.7	9.2	
15	120Q15H	Q1	7.960	7.215	4	2-11/16	2-25/32	2-1/2	-	4-1/8	1 9/16	0.924	13.9	10.4	
16	120Q16H	Q1	8.440	7.689	4	2-11/16	2-25/32	2-1/2	-	4-1/8	1-15/16	0.924	15.3	11.8	
16	120R16H	R1	8.440	7.689	4	3-3/4	3-5/32	2-7/8	-	5-3/8	1-15/16	0.924	19.5	12.0	
17	120Q17H	Q1	8.920	8.163	4	2-11/16	2-25/32	2-1/2	-	4-1/8	1-15/16	0.924	16.9	13.4	
17	120R17H	R1	8.920	8.163	4	3-3/4	3-5/32	2-7/8	-	5-3/8	1-15/16	0.924	21.2	13.7	
18	120Q18H	Q1	9.410	8.638	4	2-11/16	2-25/32	2-1/2	-	4-1/8	1-15/16	0.924	19.1	15.6	
18	120R18H	R1	9.410	8.638	4	3-3/4	3-5/32	2-7/8	-	5-3/8	1-15/16	0.924	22.5	15.0	
19	120R19H	R1	9.890	9.113	4	3-3/4	3-5/32	2-7/8	-	5-3/8	1-15/16	0.924	24.4	16.9	
20	120R20H	R1	10.370	9.589	4	3-3/4	3-5/32	2-7/8	-	5-3/8	1-15/16	0.924	26.3	18.8	
21	120R21H	R1	10.850	10.064	4	3-3/4	3-5/32	2-7/8	-	5-3/8	1-15/16	0.924	28.2	20.7	
22	120R22H	R1	11.330	10.540	4	3-3/4	3-5/32	2-7/8	-	5-3/8	1-15/16	0.924	30.0	22.5	
23	120R23H	R1	11.810	11.016	4	3-3/4	3-5/32	2-7/8	-	5-3/8	1-15/16	0.924	31.8	24.3	
24	120R24H	R1	12.290	11.492	4	3-3/4	3-5/32	2-7/8	-	5-3/8	1-15/16	0.924	34.6	27.1	
25	120R25H	R1	12.770	11.968	4	3-3/4	3-5/32	2-7/8	-	5-3/8	1-15/16	0.924	36.6	29.1	
26	120R26H	R1	13.250	12.444	5	3-3/4	3-5/32	2-7/8	1-1/16	5-3/8	7/8	0.924	40.8	33.3	
28	120R28H	R1	14.210	13.397	5	3-3/4	3-5/32	2-7/8	1-1/16	5-3/8	7/8	0.924	45.5	38.0	
30	120R30H	R1	15.170	14.350	5	3-3/4	3-5/32	2-7/8	1-1/16	5-3/8	7/8	0.924	50.8	43.3	
32	120R32	R1	16.130	15.303	5	3-3/4	3-5/32	2-7/8	1-1/16	5-3/8	7/8	0.924	56.9	49.4	
35	120R35	R2	17.570	16.734	6	3-5/8	5-5/32	4-7/8	2	5-3/8	1-15/16	0.924	79.0	68.0	
36	120R36	R2	18.050	17.211	6	3-5/8	5-5/32	4-7/8	2	5-3/8	1-15/16	0.924	83.0	72.0	
40	120R40	R2	19.960	19.118	6	3-5/8	5-5/32	4-7/8	2	5-3/8	1-15/16	0.924	93.0	82.0	
40	120S40	S1	19.960	19.118	5	4-1/4	4-3/4	4-3/8	2-3/8	6-3/8	1-1/16	0.924	96.5	83.0	
42	120S42	S1	20.920	20.072	5	4-1/4	4-3/4	4-3/8	2-3/8	6-3/8	1-1/16	0.924	103.5	90.0	
45	120R45	R2	22.350	21.503	6	3-5/8	5-5/32	4-7/8	2	5-3/8	1-15/16	0.924	113.0	102.0	
45	120S45	S1	22.350	21.503	5	4-1/4	4-3/4	4-3/8	2-3/8	6-3/8	1-1/16	0.924	113.5	100.0	
48	120S48	S1	23.790	22.935	5	4-1/4	4-3/4	4-3/8	2-3/8	6-3/8	1-1/16	0.924	124.5	111.0	
54	120S54	S1	26.650	25.798	5	4-1/4	4-3/4	4-3/8	2-3/8	6-3/8	1-1/16	0.924	151.5	138.0	
60	120R60	R2	29.520	28.661	6	3-5/8	5-5/32	4-7/8	2	5-3/8	1-15/16	0.924	190.0	179.0	
60	120S60	S1	29.520	28.661	5	4-1/4	4-3/4	4-3/8	2-3/8	6-3/8	1-1/16	0.924	193.5	180.0	
70	120R70	R2	34.300	33.434	6	3-5/8	5-5/32	4-7/8	2	5-3/8	1-15/16	0.924	159.0	148.0	
70	120S70	S2	34.300	33.434	5	4-3/16	7-1/8	6-3/4	2-7/8	6-3/8	2-15/16	0.924	186.0	167.0	
80	120R80	R2	39.080	38.207	6	3-5/8	5-5/32	4-7/8	2	5-3/8	1-15/16	0.924	302.0	291.0	
80	120S80	S2	39.080	38.207	6	4-3/16	7-1/8	6-3/4	2-7/8	6-3/8	2-15/16	0.924	324.0	305.0	

Sprockets with "H" suffix have hardened teeth.

No. 120-2

1½" Pitch

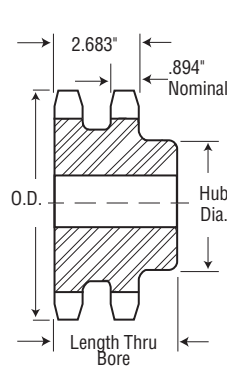
All Steel Stock Sprockets



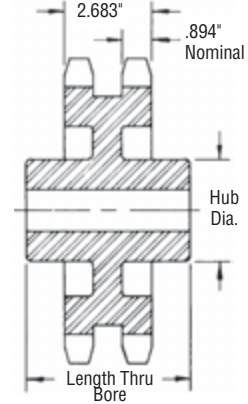
Double - Type B & C

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)
				Stock	Rec. Max.	Dia.	Length Thru	
11	D120B11	6.010	B	1½	2¾	3⅞	3¾	13.6
12	D120B12	6.500	B	1½	2¾	4⅞	3¾	17.3
13	D120B13	6.990	B	1½	3	4⅞	3¾	21.1
14	D120B14	7.470	B	1½	3⅞	5	3¾	25.6
15	D120B15	7.960	B	1½	3½	5¼	3¾	29.9
16	D120B16	8.440	B	1½	3½	5¼	3¾	33.8
17	D120B17	8.920	B	1½	3½	5¼	3¾	36.9
18	D120B18	9.410	B	1½	3½	5¼	3¾	41.9
19	D120B19	9.890	B	1½	3½	5¼	3¾	46.5
20	D120B20	10.370	B	1½	3½	5¼	3¾	50.2
21	D120B21	10.850	B	1½	3½	5¼	3¾	55.6
22	D120B22	11.330	B	1½	3⅞	5¼	4	64.0
23	D120B23	11.810	B	1½	4	6½	4	75.0
24	D120B24	12.290	B	1½	4	6½	4	79.0
25	D120B25	12.770	B	1½	4	6½	4	84.0
26	D120B26	13.250	B	1½	4	6½	4	90.0
30	D120B30	15.170	B	1½	4	6½	4	119.0
35	D120C35	17.570	C	1½	5¾	7¾	6	148.0
45	D120C45	22.350	C	1½	5¾	7¾	6	188.0
60	D120C60	29.520	C	1½	6¾	9¾	6¾	307.0

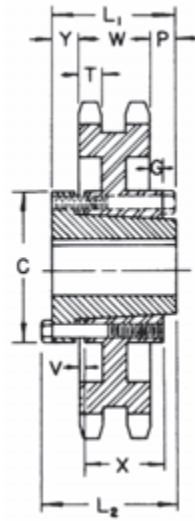
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.



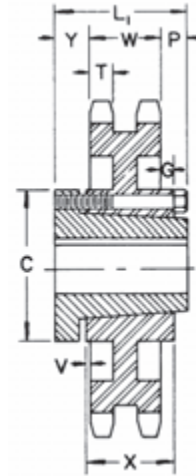
TYPE B



TYPE C



QD — TYPE C₅



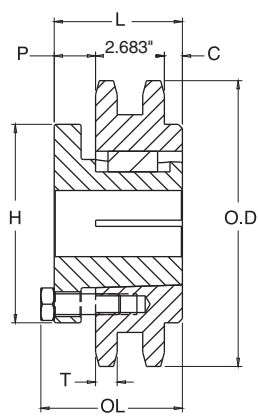
QD — TYPE C₆

Alteration Charges

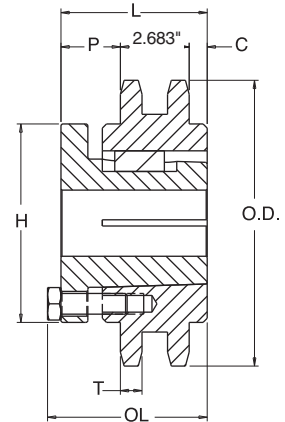
See current discount sheet for alteration charges.

Double - Type QD

No. Teeth	Catalog Number	Bush-ing	Diameters		Type	Max. Bore	Dimensions										Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter			L ₁	L ₂	C	Y	P	G	V	X	T	W	With Hub	Rim Only
30	D120J30	J	15.170	14.350	C5	4⅞	4¾	5	7¼	1½	⅝	⅝	⅝	3⅞	.894	2.683	97.5	78.0
35	D120J35	J	17.570	16.734	C5	4⅞	4¾	5	7¼	1½	⅝	⅝	⅝	3⅞	.894	2.683	112.0	93.0
45	D120J45	J	22.350	21.502	C5	4⅞	4¾	5	7¼	1½	⅝	⅝	⅝	3⅞	.894	2.683	157.0	138.0
60	D120M60	M	29.520	28.661	C6	5½	6¾	6¾	9	2½	1⅝	1⅝	⅞	5⅞	.894	2.683	271.0	234.0



TYPE 15



TYPE 18

Double - MST[®] Sprockets

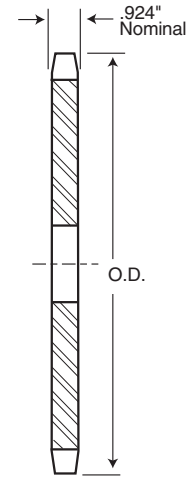
No. Teeth	Catalog Number	Bush- ing	Diameters		Type	Max. Bore	Dimensions						Weight Lbs. (Approx.)	
			Outside Dia.	Pitch Dia.			OL	L	C	H	P	T(nom)	With Hub	Rim Only
30	D120S30	S1	15.170	14.350	15	4-1/4	4-3/4	4-3/8	5/8	6-3/8	1-1/16	0.894	118.5	105.0
35	D120S35	S1	17.570	16.734	15	4-1/4	4-3/4	4-3/8	5/8	6-3/8	1-1/16	0.894	161.5	148.0
45	D120S45	S2	22.350	21.503	18	4-3/16	7-1/8	6-3/4	1-27/32	6-3/8	2-7/32	0.894	287.0	268.0
60	D120U60	U0	29.520	28.661	15	5-1/2	5-23/32	5-1/4	1-9/32	8-3/8	19/32	0.894	213.0	183.0

Sprockets with "H" suffix have hardened teeth.

No. 140

1³/₄" Pitch

All Steel Stock Sprockets



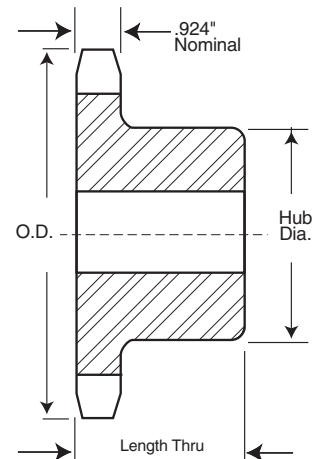
TYPE A

Single - Type B & C

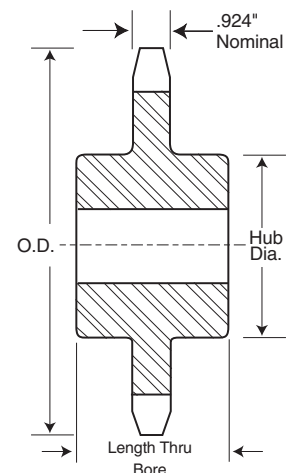
Single - Type A

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)	Type	Catalog Number	Stock Bore	Weight Lbs. (Approx.)
				Stock	Rec. Max.	Dia.	Length Thru					
11	140B11	7.010	B	1½	2¼	4¼	2¼	11.3	A	140A11	1½	5.0
12	140B12	7.580	B	1½	3	4½	2¼	13.2	A	140A12	1½	7.8
13	140B13	8.150	B	1½	3½	5½	2½	18.9	A	140A13	1½	8.2
14	140B14	8.720	B	1½	3¾	5½	2½	20.4	A	140A14	1½	10.0
15	140B15	9.280	B	1½	4¼	6¼	2½	25.1	A	140A15	1½	11.0
16	140B16	9.850	B	1½	4½	6¼	2½	27.9	A	140A16	1½	14.0
17	140B17	10.410	B	1½	4¾	6¼	2½	29.8	A	140A17	1½	16.0
18	140B18	10.980	B	1½	4¾	6¼	2½	32.0	A	140A18	1½	18.0
19	140B19	11.540	B	1½	4¾	6¼	2½	34.1	A	140A19	1½	21.0
20	140B20	12.100	B	1½	4¾	6¼	2½	36.0	A	140A20	1½	23.0
21	140B21	12.660	B	1½	4¾	6¼	2½	38.7	A	140A21	1½	25.0
22	140B22	13.220	B	1½	4¾	6¼	2½	40.6	A	140A22	1½	28.0
23	140B23	13.780	B	1½	4¾	6¼	2½	42.1	A	140A23	1½	30.0
24	140B24	14.340	B	1½	4¾	6¼	2½	46.2	A	140A24	1½	33.0
25	140B25	14.900	B	1½	4¾	6¼	2½	47.8	A	140A25	1½	34.0
26	140B26	15.460	B	1½	4¾	6¼	3	57.2	A	140A26	1½	39.0
27	140B27	16.020	B	1½	4¾	6¼	3	58.5	A	140A27	1½	41.0
28	140B28	16.580	B	1½	4¾	6¼	3	62.2	A	140A28	1½	45.0
30	140B30	17.700	B	1½	4¾	6¼	3	69.8	A	140A30	1½	52.0
31	-	18.260	-	-	-	-	-	-	-	140A31	1½	56.0
32	140B32	18.820	B	1½	4¾	6¼	3	76.3	A	140A32	1½	60.0
35	140C35	20.490	C	1½	5¼	7	4	108.0	A	140A35	1½	73.0
36	-	21.050	-	-	-	-	-	-	A	140A36	1½	77.0
40	140C40	23.290	C	1½	5¼	7	4	121.0	A	140A40	1½	93.0
45	140C45	26.080	C	1½	5¼	7	4	142.0	A	140A45	1½	131.0
48	140C48	27.750	C	1½	5¼	7	4	150.0	A	140A48	1½	134.0
54	140C54	31.100	C	1½	5¼	7	4	177.0	A	140A54	1½	173.0
60	140C60	34.440	C	1½	5¼	7	5	220.0	A	140A60	1½	219.0
70	140C70	40.020	C	1½	5¾	7½	5	282.0	A	140A70	1½	292.0
80	140C80	45.590	C	1½	5¾	7½	5	331.0	A	140A80	1½	402.0

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.



TYPE B

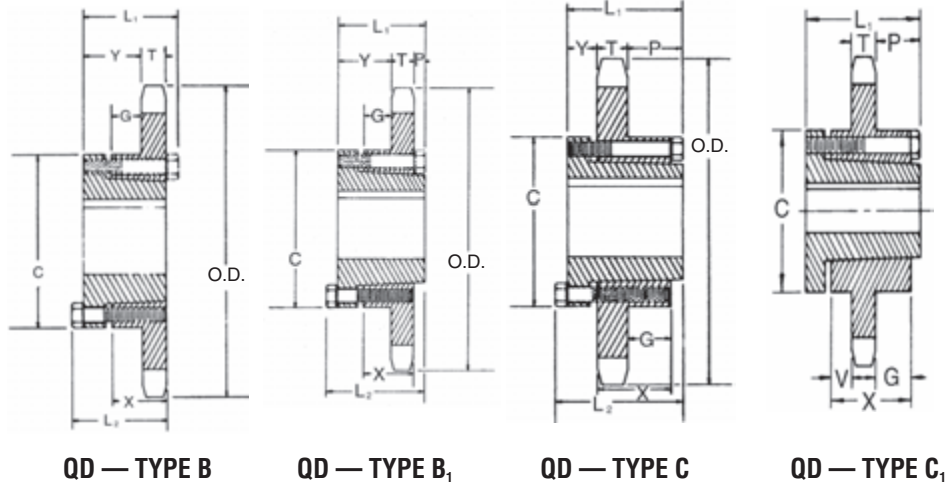


TYPE C

Alteration Charges

See current discount sheet for alteration charges.

Single - Type QD With Hardened Teeth



**SABER
TOOTH®**

No. Teeth	Catalog Number
11	140SF11 H
12	140SF12 H
13	140SF13 H
14	140E14 H
15	140E15 H
16	140E16 H
17	140E17 H
18	140E18 H
19	140E19 H
20	140E20 H
21	140E21 H
22	140E22 H
23	140F23 H
24	140F24 H
25	140F25 H
26	140F26 H
30	140F30 H

Single - Type QD

No. Teeth	Catalog Number	Bush- ing	Diameters		Type	Max. Bore	Dimensions									Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter			L ₁	L ₂	C	Y	P	G	V	X	T	With Hub	Rim Only
11	140SF11	SF	7.010	6.212	B	2 ¹⁵ / ₁₆	2 ¹ / ₄	2 ¹ / ₄	4 ⁵ / ₁₆	1 ¹ / ₄	—	2 ¹ / ₆₄	—	1 ¹ / ₄	0.924	8.6	5.6
12	140SF12	SF	7.580	6.762	B	2 ¹⁵ / ₁₆	2 ¹ / ₄	2 ¹ / ₄	4 ⁵ / ₁₆	1 ¹ / ₄	—	2 ¹ / ₆₄	—	1 ¹ / ₄	0.924	10.4	7.4
13	140SF13	SF	8.150	7.313	B	2 ¹⁵ / ₁₆	2 ¹ / ₄	2 ¹ / ₄	4 ⁵ / ₁₆	1 ¹ / ₄	—	2 ¹ / ₆₄	—	1 ¹ / ₄	0.924	11.9	8.9
14	140E14	E	8.720	7.864	B1	3 ¹ / ₂	2 ⁵ / ₁₆	2 ⁵ / ₁₆	6	1 ¹ / ₁₆	1 ¹ / ₂	4 ⁵ / ₆₄	—	1 ¹ / ₁₆	0.924	21.6	11.6
15	140E15	E	9.280	8.417	B1	3 ¹ / ₂	2 ⁵ / ₁₆	2 ⁵ / ₁₆	6	1 ¹ / ₁₆	1 ¹ / ₂	4 ⁵ / ₆₄	—	1 ¹ / ₁₆	0.924	24.2	14.2
16	140E16	E	9.850	8.970	B1	3 ¹ / ₂	2 ⁵ / ₁₆	2 ⁵ / ₁₆	6	1 ¹ / ₁₆	1 ¹ / ₂	4 ⁵ / ₆₄	—	1 ¹ / ₁₆	0.924	25.9	15.9
17	140E17	E	10.410	9.524	B1	3 ¹ / ₂	2 ⁵ / ₁₆	2 ⁵ / ₁₆	6	1 ¹ / ₁₆	1 ¹ / ₂	4 ⁵ / ₆₄	—	1 ¹ / ₁₆	0.924	28.0	18.0
18	140E18	E	10.980	10.078	B1	3 ¹ / ₂	2 ⁵ / ₁₆	2 ⁵ / ₁₆	6	1 ¹ / ₁₆	1 ¹ / ₂	4 ⁵ / ₆₄	—	1 ¹ / ₁₆	0.924	29.6	19.6
19	140E19	E	11.540	10.632	B1	3 ¹ / ₂	2 ⁵ / ₁₆	2 ⁵ / ₁₆	6	1 ¹ / ₁₆	1 ¹ / ₂	4 ⁵ / ₆₄	—	1 ¹ / ₁₆	0.924	32.0	22.0
20	140E20	E	12.100	11.187	B1	3 ¹ / ₂	2 ⁵ / ₁₆	2 ⁵ / ₁₆	6	1 ¹ / ₁₆	1 ¹ / ₂	4 ⁵ / ₆₄	—	1 ¹ / ₁₆	0.924	34.6	24.6
21	140E21	E	12.660	11.742	B1	3 ¹ / ₂	2 ⁵ / ₁₆	2 ⁵ / ₁₆	6	1 ¹ / ₁₆	1 ¹ / ₂	4 ⁵ / ₆₄	—	1 ¹ / ₁₆	0.924	37.6	27.6
22	140E22	E	13.220	12.297	B1	3 ¹ / ₂	2 ⁵ / ₁₆	2 ⁵ / ₁₆	6	1 ¹ / ₁₆	1 ¹ / ₂	4 ⁵ / ₆₄	—	1 ¹ / ₁₆	0.924	39.5	29.5
23	140F23	F	13.780	12.852	B1	3 ¹⁵ / ₁₆	3 ³ / ₄	4	6 ⁵ / ₁₆	2 ¹ / ₁₆	1 ¹ / ₂	1 ³ / ₆₄	—	2 ¹ / ₂	0.924	48.0	36.4
24	140F24	F	14.340	13.407	B1	3 ¹⁵ / ₁₆	3 ³ / ₄	4	6 ⁵ / ₁₆	2 ¹ / ₁₆	1 ¹ / ₂	1 ³ / ₆₄	—	2 ¹ / ₂	0.924	51.6	40.1
25	140F25	F	14.900	13.963	B1	3 ¹⁵ / ₁₆	3 ³ / ₄	4	6 ⁵ / ₁₆	2 ¹ / ₁₆	1 ¹ / ₂	1 ³ / ₆₄	—	2 ¹ / ₂	0.924	53.8	42.3
26	140F26	F	15.460	14.518	B1	3 ¹⁵ / ₁₆	3 ³ / ₄	4	6 ⁵ / ₁₆	2 ¹ / ₁₆	1 ¹ / ₂	1 ³ / ₆₄	—	2 ¹ / ₂	0.924	58.0	46.5
30	140F30	F	17.700	16.742	B1	3 ¹⁵ / ₁₆	3 ³ / ₄	4	6 ⁵ / ₁₆	2 ¹ / ₁₆	1 ¹ / ₂	1 ³ / ₆₄	—	2 ¹ / ₂	0.924	72.0	60.4
35	140F35	F	20.490	19.523	C	3 ¹⁵ / ₁₆	3 ³ / ₄	4	6 ⁵ / ₁₆	1	1 ¹ / ₁₆	1 ³ / ₆₄	—	2 ¹ / ₂	0.924	89.5	78.0
36	140F36	F	21.050	20.079	C	3 ¹⁵ / ₁₆	3 ³ / ₄	4	6 ⁵ / ₁₆	1	1 ¹ / ₁₆	1 ³ / ₆₄	—	2 ¹ / ₂	0.924	95.5	84.0
40	140J40	J	23.290	22.305	C	4 ¹ / ₁₆	4 ¹ / ₂	5	7 ¹ / ₄	1 ¹ / ₁₆	2 ³ / ₁₆	2 ¹ / ₆₄	—	3 ³ / ₁₆	0.924	117.0	98.0
45	140J45	J	26.080	25.087	C	4 ¹ / ₁₆	4 ¹ / ₂	5	7 ¹ / ₄	1 ¹ / ₁₆	2 ³ / ₁₆	2 ¹ / ₆₄	—	3 ³ / ₁₆	0.924	139.0	120.0
48	140J48	J	27.750	26.757	C	4 ¹ / ₁₆	4 ¹ / ₂	5	7 ¹ / ₄	1 ¹ / ₁₆	2 ³ / ₁₆	2 ¹ / ₆₄	—	3 ³ / ₁₆	0.924	148.0	129.0
54	140J54	J	31.100	30.097	C	4 ¹ / ₁₆	4 ¹ / ₂	5	7 ¹ / ₄	1 ¹ / ₁₆	2 ³ / ₁₆	2 ¹ / ₆₄	—	3 ³ / ₁₆	0.924	168.0	149.0
60	140J60	J	34.440	33.438	C	4 ¹ / ₁₆	4 ¹ / ₂	5	7 ¹ / ₄	1 ¹ / ₁₆	2 ³ / ₁₆	2 ¹ / ₆₄	—	3 ³ / ₁₆	0.924	205.0	186.0
70	140M70	M	40.020	39.006	C1	5 ¹ / ₂	6 ¹ / ₄	6 ¹ / ₄	9	2 ³ / ₃₂	2 ³ / ₃₂	2 ¹ / ₃₂	1 ¹ / ₃₂	5 ⁵ / ₁₆	0.924	301.0	264.0
80	140M80	M	45.590	44.575	C1	5 ¹ / ₂	6 ¹ / ₄	6 ¹ / ₄	9	2 ²⁹ / ₃₂	2 ²⁹ / ₃₂	2 ¹ / ₃₂	1 ¹ / ₃₂	5 ⁵ / ₁₆	0.924	385.0	348.0

No. 140

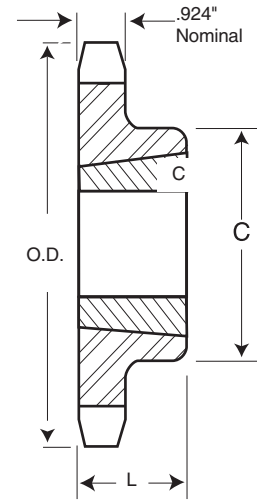
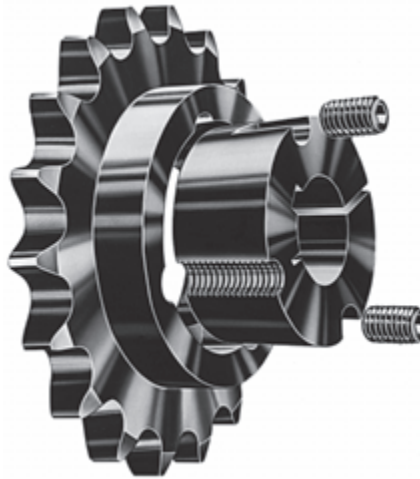
1³/₄" Pitch

All Steel Stock Sprockets

Single - Taper Bushed with Hardened Teeth

No. Teeth	Catalog Number
12	140BTB12 H
13	140BTB13 H
14	140BTB14 H
15	140BTB15 H
16	140BTB16 H
17	140BTB17 H
18	140BTB18 H
19	140BTB19 H
21	140BTB21 H
26	140BTB26 H

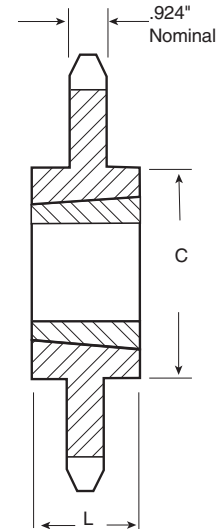
**SABER
TOOTH®**



TYPE B

Single - Taper Bushed

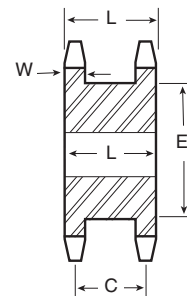
No. Teeth	Catalog Number	Bushing	Diameter		Max. Bore	Dimensions			Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter		L	C	Type	Rim Only	Bushing Only
12	140BTB12	2517	7.581	6.762	2 ¹ / ₂	1 ¹ / ₄	4 ¹ / ₄	B	7.0	3.5
13	140BTB13	3020	8.150	7.313	3	2	5 ¹ / ₄	B	8.0	6.5
14	140BTB14	3020	8.718	7.864	3	2	5 ¹ / ₄	B	10.0	6.5
15	140BTB15	3020	9.283	8.417	3	2	5 ¹ / ₄	B	12.0	6.5
16	140BTB16	3020	9.848	8.970	3	2	5 ¹ / ₄	B	14.0	6.5
17	140BTB17	3020	10.411	9.524	3	2	5 ¹ / ₄	B	16.0	6.5
18	140BTB18	3020	10.975	10.078	3	2	5 ¹ / ₄	B	18.0	6.5
19	140BTB19	3020	11.537	10.632	3	2	5 ¹ / ₄	B	20.0	6.5
21	140BTB21	3020	12.660	11.742	3	2	5 ¹ / ₄	B	24.0	6.5
26	140BTB26	3020	15.463	14.518	3	2	5 ¹ / ₄	B	40.0	6.5
35	140CTB35	3535	20.494	19.523	3 ¹ / ₂	3 ¹ / ₂	6 ¹ / ₂	C	78.0	14.0
45	140CTB45	4040	26.076	25.087	4	4	7 ³ / ₄	C	118.0	22.0
60	140CTB60	4040	34.442	33.438	4	4	7 ³ / ₄	C	188.0	22.0
70	140CTB70	4040	40.017	39.006	4	4	7 ³ / ₄	C	241.0	22.0



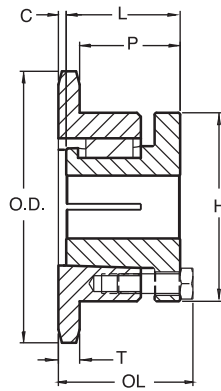
TYPE C

Double Single - Type A — Steel

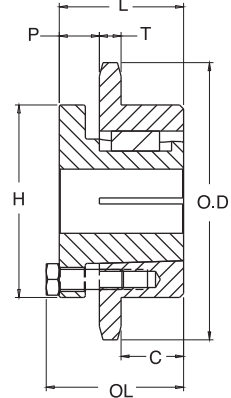
No. Teeth	Catalog Number	Diameters		Type	Min. Bore	Max. Bore	Dimensions			Wt. Lbs. (Approx.)	
		Outside Diameter	Pitch Diameter				L	C	E		
14	DS140A14	8.720	7.864	A	1 ¹ / ₁₆	3 ³ / ₈	3 ³⁹ / ₆₄	2 ¹¹ / ₁₆	5 ⁵ / ₈	0.924	35.0
15	DS140A15	9.280	8.417	A	1 ¹ / ₁₆	4 ⁷ / ₁₆	3 ³⁹ / ₆₄	2 ¹¹ / ₁₆	6 ²⁹ / ₆₄	0.924	43.0
16	DS140A16	9.850	8.970	A	1 ¹ / ₁₆	5 ¹ / ₄	3 ³⁹ / ₆₄	2 ¹¹ / ₁₆	7 ¹ / ₆₄	0.924	49.0
17	DS140A17	10.410	9.524	A	1 ¹ / ₁₆	5 ⁹ / ₁₆	3 ³⁹ / ₆₄	2 ¹¹ / ₁₆	7 ³⁹ / ₆₄	0.924	58.0
18	DS140A18	10.980	10.078	A	1 ¹ / ₁₆	6 ¹ / ₈	3 ³⁹ / ₆₄	2 ¹¹ / ₁₆	8 ³ / ₆₄	0.924	66.0



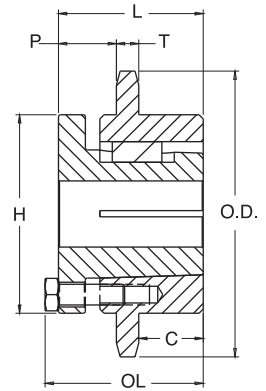
TYPE A



TYPE 4



TYPE 5



TYPE 6

Single - MST[®] Sprockets

No. Teeth	Catalog Number	Bush-ing	Diameters		Type	Max. Bore	Dimensions						Weight Lbs. (Approx.)	
			Outside Dia.	Pitch Dia.			OL	L	C	H	P	T(nom)	With Hub	Rim Only
11	140Q11H	Q1	7.010	6.212	4	2-11/16	2-25/32	2-1/2	-	4-1/8	1-9/16	0.924	9.9	6.4
12	140Q12H	Q1	7.580	6.762	4	2-11/16	2-25/32	2-1/2	-	4-1/8	1-9/16	0.924	12.5	9.0
13	140R13H	R1	8.150	7.313	4	3-3/4	3-5/32	2-7/8	-	5-3/8	1-15/16	0.924	18.6	11.1
14	140R14H	R1	8.720	7.864	4	3-3/4	3-5/32	2-7/8	-	5-3/8	1-15/16	0.924	20.1	12.6
15	140R15H	R1	9.280	8.417	4	3-3/4	3-5/32	2-7/8	-	5-3/8	1-1/16	0.924	22.2	14.7
16	140R16H	R1	9.850	8.970	4	3-3/4	3-5/32	2-7/8	-	5-3/8	1-1/16	0.924	24.0	16.5
17	140R17H	R1	10.410	9.524	4	3-3/4	3-5/32	2-7/8	-	5-3/8	1-15/16	0.924	26.0	18.5
18	140R18H	R1	10.980	10.078	4	3-3/4	3-5/32	2-7/8	-	5-3/8	1-15/16	0.924	28.0	20.5
19	140R19H	R1	11.540	10.632	4	3-3/4	3-5/32	2-7/8	-	5-3/8	1-15/16	0.924	30.5	23.0
20	140R20H	R1	12.100	11.187	4	3-3/4	3-5/32	2-7/8	-	5-3/8	1-15/16	0.924	32.9	25.4
21	140R21H	R1	12.660	11.742	4	3-3/4	3-5/32	2-7/8	-	5-3/8	1-15/16	0.924	35.3	27.8
22	140R22H	R1	13.220	12.297	5	3-3/4	3-5/32	2-7/8	1-1/16	5-3/8	7/8	0.924	40.0	32.5
23	140R23H	R1	13.780	12.852	5	3-3/4	3-5/32	2-7/8	1-1/16	5-3/8	7/8	0.924	43.5	36.0
24	140R24H	R1	14.340	13.407	5	3-3/4	3-5/32	2-7/8	1-1/16	5-3/8	7/8	0.924	45.1	37.6
25	140R25H	R1	14.900	13.963	5	3-3/4	3-5/32	2-7/8	1-1/16	5-3/8	7/8	0.924	47.8	40.3
26	140R26H	R1	15.460	14.518	5	3-3/4	3-5/32	2-7/8	1-1/16	5-3/8	7/8	0.924	51.5	44.0
30	140R30H	R2	17.700	16.742	5	3-5/8	5-5/32	4-7/8	2	5-3/8	7/8	0.924	79.0	68.0
35	140R35	R2	20.490	19.523	6	3-5/8	5-5/32	4-7/8	2	5-3/8	7/8	0.924	99.0	88.0
36	140R36	R2	21.050	20.079	6	3-5/8	5-5/32	4-7/8	2	5-3/8	7/8	0.924	101.0	90.0
36	140S36	S1	21.050	20.079	5	4-1/4	43/4	4-3/8	2-3/8	6-3/8	1-1/16	0.924	102.5	89.0
40	140R40	R2	23.290	22.305	6	3-5/8	5-5/32	4-7/8	2	5-3/8	7/8	0.924	120.0	109.0
40	140S40	S1	23.290	22.305	5	4-1/4	4-3/4	4-3/8	2-3/8	6-3/8	1-1/16	0.924	120.5	107.0
45	140S45	S1	26.080	25.087	5	4-1/4	4-3/4	43/8	2-3/8	6-3/8	1-1/16	0.924	145.5	132.0
48	140S48	S2	27.750	26.757	6	4-3/16	7-1/2	6-3/4	2-7/8	6-3/8	2-15/16	0.924	188.0	169.0
54	140S54	S2	31.100	30.097	6	4-3/16	7-1/2	6-3/4	2-7/8	6-3/8	2-15/16	0.924	227.0	208.0
60	140S60	S2	34.440	33.438	6	4-3/16	7-1/2	6-3/4	2-7/8	6-3/8	2-15/16	0.924	249.0	230.0
70	140S70	S2	40.020	39.006	6	4-3/16	7-1/2	6-3/4	2-7/8	6-3/8	2-15/16	0.924	330.0	311.0
80	140S80	S2	45.590	44.575	6	4-3/16	7-1/2	6-3/4	2-7/8	6-3/8	2-15/16	0.924	261.0	242.0

Sprockets with "H" suffix have hardened teeth.

No. 140-2

1³/₄" Pitch

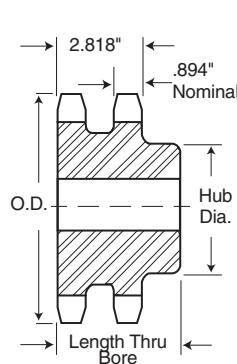
All Steel Stock Sprockets



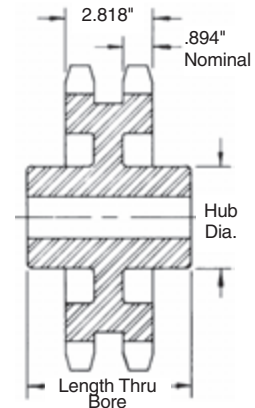
Double - Type B & C

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)
				Stock	Rec. Max.	Dia.	Length Thru	
13	D140B13	8.150	B	1 ¹ / ₈	3 ³ / ₁₆	5	3 ³ / ₈	29.0
14	D140B14	8.720	B	1 ¹ / ₈	3 ³ / ₈	5 ¹ / ₂	3 ³ / ₈	34.8
15	D140B15	9.280	B	1 ¹ / ₈	4 ¹ / ₂	6 ¹ / ₂	3 ³ / ₈	42.5
16	D140B16	9.850	B	1 ¹ / ₈	5 ¹ / ₄	7	4	48.1
17	D140B17	10.410	B	1 ¹ / ₈	5 ¹ / ₄	7	4	57.5
18	D140B18	10.980	B	1 ¹ / ₈	5 ¹ / ₄	7	4	65.6
19	D140B19	11.540	B	1 ¹ / ₈	5 ¹ / ₄	7	4	72.0
20	D140B20	12.100	B	1 ¹ / ₈	5 ¹ / ₄	7	4	76.0
21	D140B21	12.660	B	1 ¹ / ₈	5 ¹ / ₄	7	4	82.0
22	D140B22	13.220	B	1 ¹ / ₈	5 ¹ / ₄	7	4	94.0
23	D140B23	13.780	B	1 ¹ / ₈	5 ¹ / ₄	7	4	100.0
24	D140B24	14.340	B	1 ¹ / ₈	5 ¹ / ₄	7	4	104.0
25	D140B25	14.900	B	1 ¹ / ₈	5 ¹ / ₄	7	4	120.0
26	D140B26	15.460	B	1 ¹ / ₈	5 ¹ / ₄	7	4	128.0
35	D140C35	20.490	C	1 ¹ / ₂	5 ¹ / ₂	7 ¹ / ₂	6	180.0
45	D140C45	26.080	C	1 ¹ / ₂	5 ³ / ₈	9 ¹ / ₂	6	232.0
60	D140C60	34.440	C	1 ¹ / ₂	6 ¹ / ₈	12 ¹ / ₂	6 ¹ / ₄	372.0

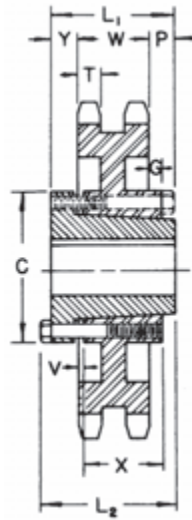
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.



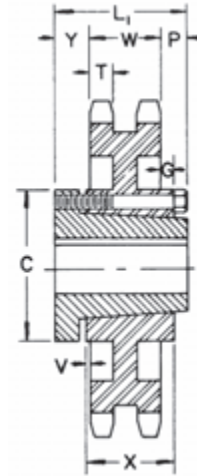
TYPE B



TYPE C



QD — TYPE C₅



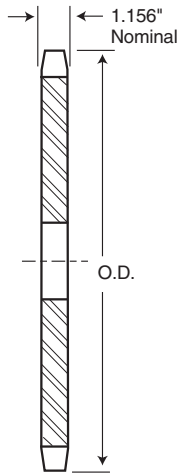
QD — TYPE C₆

Alteration Charges

See current discount sheet for alteration charges.

Double - Type QD

No. Teeth	Catalog Number	Bush-ing	Diameters		Type	Max. Bore	Dimensions										Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter			L ₁	L ₂	C	Y	P	G	V	X	T	W	With Hub	Rim Only
35	D140J35	J	20.490	19.523	C5	4 ⁷ / ₁₆	4 ¹ / ₂	5	7 ¹ / ₄	3 ³ / ₃₂	2 ³ / ₃₂	1 ¹⁹ / ₃₂	7 ¹ / ₃₂	3 ³ / ₁₆	0.894	2.818	137	128
45	D140J45	J	26.080	25.087	C5	4 ⁷ / ₁₆	4 ¹ / ₂	5	7 ¹ / ₄	3 ³ / ₃₂	2 ³ / ₃₂	1 ¹⁹ / ₃₂	7 ¹ / ₃₂	3 ³ / ₁₆	0.894	2.818	195	176
60	D140M60	M	34.440	33.438	C6	5 ¹ / ₂	6 ¹ / ₄	6 ¹ / ₄	9	2 ⁷ / ₃₂	1 ²³ / ₃₂	1 ¹⁹ / ₃₂	2 ²⁵ / ₃₂	5 ¹ / ₁₆	0.894	2.818	339	302



TYPE A

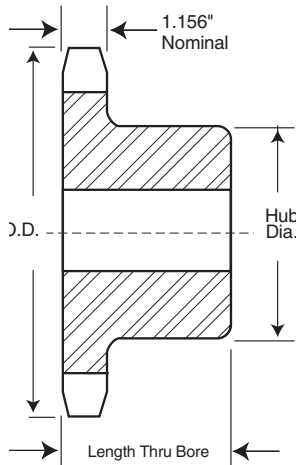


Alteration Charges

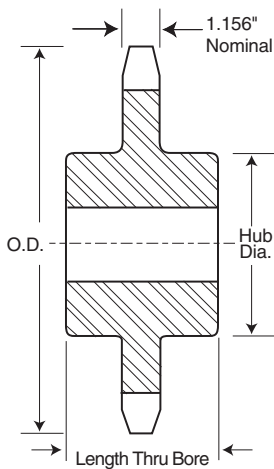
See current discount sheet for alteration charges.

Single - Type B & C

Single - Type A — Plate



TYPE B



TYPE C

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs (Approx.)	Type	Catalog Number	Stock Bore	Weight Lbs. (Approx.)
				Stock	Rec. Max.	Dia.	Length Thru					
8	160B8	6.030	B	1½	1½	3¼	2¼	8.0	A	160A8	1½	5.0
9	160B9	6.700	B	1½	2½	3½	2¼	10.0	A	160A9	1½	7.0
10	160B10	7.360	B	1½	2½	4½	2¼	12.0	A	160A10	1½	8.0
11	160B11	8.010	B	1½	3½	4½	2½	17.0	A	160A11	1½	10.0
12	160B12	8.660	B	1½	3½	5½	2½	21.0	A	160A12	1½	12.0
13	160B13	9.310	B	1½	4	6	2½	28.0	A	160A13	1½	16.0
14	160B14	9.960	B	1½	4½	6½	2½	32.0	A	160A14	1½	17.0
15	160B15	10.610	B	1½	5½	7	2½	37.0	A	160A15	1½	21.0
16	160B16	11.260	B	1½	5½	7	2½	41.0	A	160A16	1½	24.0
17	160B17	11.900	B	1½	5½	7	2½	45.0	A	160A17	1½	27.0
18	160B18	12.540	B	1½	5½	7	2½	48.0	A	160A18	1½	30.0
19	160B19	13.190	B	1½	5½	7	2½	52.0	A	160A19	1½	34.0
20	160B20	13.830	B	1½	5½	7	2½	56.0	A	160A20	1½	38.0
21	160B21	14.470	B	1½	5½	7	2½	59.0	A	160A21	1½	42.0
22	160B22	15.110	B	1½	5½	7	2½	65.0	A	160A22	1½	46.0
23	160B23	15.750	B	1½	5½	7	2½	68.0	A	160A23	1½	50.0
24	160B24	16.390	B	1½	5½	7	3	77.0	A	160A24	1½	56.0
25	160B25	17.030	B	1½	5½	7	3	81.0	A	160A25	1½	61.0
26	160B26	17.670	B	1½	5½	7	3	86.0	A	160A26	1½	65.0
27	160B27	18.310	B	1½	5½	7	3	91.0	A	160A27	1½	71.0
28	160B28	18.950	B	1½	5½	7	3	98.0	A	160A28	1½	77.0
30	160B30	20.230	B	1½	5½	7	3	108.0	A	160A30	1½	90.0
35	160C35	23.420	C	1½	5½	8	4½	154.0	A	160A35	1½	121.0
40	160C40	26.610	C	1½	5½	8	4½	196.0	A	160A40	1½	138.0
45	160C45	29.800	C	1½	5½	8	5	234.0	A	160A45	1½	204.0
54	160C54	35.540	C	1½	5½	8	5	276.0	A	160A54	1½	294.0
60	160C60	39.360	C	1½	5½	8	5	329.0	A	160A60	1½	366.0
70	160C70	45.730	C	1½	5½	8	5	446.0	A	160A70	1½	507.0
80	160C80	52.100	C	1½	5½	8	6	612.0	A	160A80	1½	656.0

Single - Type C — Steel 2" Pitch

No. Teeth	Catalog Number	Outside Diameter	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)
			Stock	Rec. Max.	Diameter	Length	
11	160C11	8.010	1½"	3¼"	4½"	4½"	21.0
12	160C12	8.660	1½"	3¼"	5½"	4½"	26.0

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

No. 160

2" Pitch

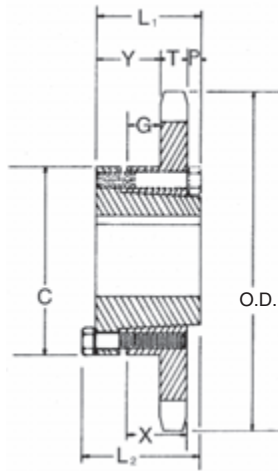
All Steel Stock Sprockets



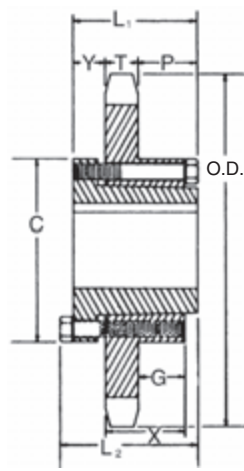
Single - Type QD With Hardened Teeth

No. Teeth	Catalog Number
12	160E12 H
13	160E13 H
14	160E14 H
15	160F15 H
16	160F16 H
17	160F17 H
18	160F18 H
19	160F19 H
20	160F20 H
21	160F21 H
22	160F22 H
23	160F23 H
24	160F24 H
25	160F25 H
26	160J26 H
28	160J28 H
30	160J30 H

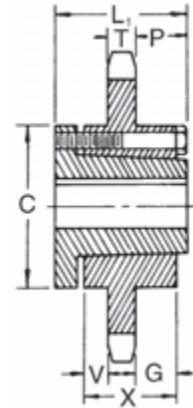
**SABER
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QD — TYPE B₁



QD — TYPE C

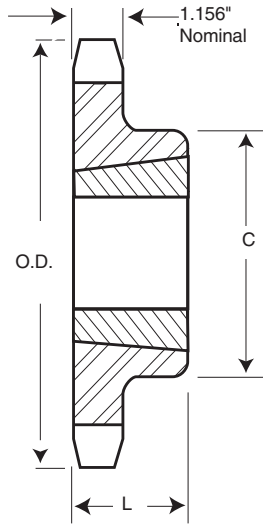


QD — TYPE C₁



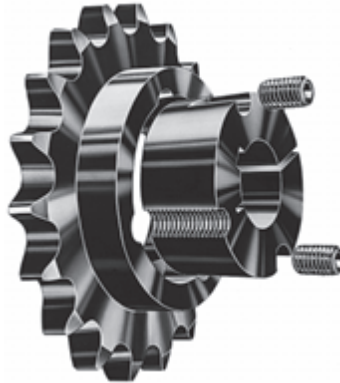
Single - Type QD

No. Teeth	Catalog Number	Bush- ing	Diameters		Type	Max. Bore	Dimensions									Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter			L ₁	L ₂	C	Y	P	G	V	X	T	With Hub	Rim Only
12	160E12	E	8.660	7.727	B1	3½	2%	2 ¹⁵ / ₁₆	6	1 ¹ / ₁₆	½	1 ¹⁵ / ₃₂	—	1%	1.156	21.0	11.0
13	160E13	E	9.310	8.357	B1	3½	2%	2 ¹⁵ / ₁₆	6	1 ¹ / ₁₆	½	1 ¹⁵ / ₃₂	—	1%	1.156	24.0	14.0
14	160E14	E	9.960	8.988	B1	3½	2%	2 ¹⁵ / ₁₆	6	1 ¹ / ₁₆	½	1 ¹⁵ / ₃₂	—	1%	1.156	26.0	16.0
15	160F15	F	10.610	9.620	B1	3 ⁵ / ₁₆	3%	4	6%	2 ¹ / ₁₆	½	1 ¹¹ / ₃₂	—	2½	1.156	35.5	24.0
16	160F16	F	11.260	10.252	B1	3 ⁵ / ₁₆	3%	4	6%	2 ¹ / ₁₆	½	1 ¹¹ / ₃₂	—	2½	1.156	38.5	27.0
17	160F17	F	11.900	10.885	B1	3 ⁵ / ₁₆	3%	4	6%	2 ¹ / ₁₆	½	1 ¹¹ / ₃₂	—	2½	1.156	42.5	31.0
18	160F18	F	12.540	11.518	B1	3 ⁵ / ₁₆	3%	4	6%	2 ¹ / ₁₆	½	1 ¹¹ / ₃₂	—	2½	1.156	46.5	35.0
19	160F19	F	13.190	12.151	B1	3 ⁵ / ₁₆	3%	4	6%	2 ¹ / ₁₆	½	1 ¹¹ / ₃₂	—	2½	1.156	49.5	38.0
20	160F20	F	13.830	12.785	B1	3 ⁵ / ₁₆	3%	4	6%	2 ¹ / ₁₆	½	1 ¹¹ / ₃₂	—	2½	1.156	53.5	42.0
21	160F21	F	14.740	13.419	B1	3 ⁵ / ₁₆	3%	4	6%	2 ¹ / ₁₆	½	1 ¹¹ / ₃₂	—	2½	1.156	56.5	45.0
22	160F22	F	15.110	14.053	B1	3 ⁵ / ₁₆	3%	4	6%	2 ¹ / ₁₆	½	1 ¹¹ / ₃₂	—	2½	1.156	62.5	51.0
23	160F23	F	15.750	14.688	B1	3 ⁵ / ₁₆	3%	4	6%	2 ¹ / ₁₆	½	1 ¹¹ / ₃₂	—	2½	1.156	66.5	55.0
24	160F24	F	16.390	15.323	B1	3 ⁵ / ₁₆	3%	4	6%	2 ¹ / ₁₆	½	1 ¹¹ / ₃₂	—	2½	1.156	70.5	59.0
25	160F25	F	17.030	15.958	B1	3 ⁵ / ₁₆	3%	4	6%	2 ¹ / ₁₆	½	1 ¹¹ / ₃₂	—	2½	1.156	75.5	64.0
26	160J26	J	17.670	16.593	C	4 ¹ / ₁₆	4½	5	7½	1 ¹ / ₁₆	2½	2 ¹ / ₃₂	—	3 ¹ / ₁₆	1.156	92.5	74.0
28	160J28	J	18.950	17.863	C	4 ¹ / ₁₆	4½	5	7½	1 ¹ / ₁₆	2½	2 ¹ / ₃₂	—	3 ¹ / ₁₆	1.156	103.0	84.0
30	160J30	J	20.230	19.134	C	4 ¹ / ₁₆	4½	5	7½	1 ¹ / ₁₆	2½	2 ¹ / ₃₂	—	3 ¹ / ₁₆	1.156	115.0	96.0
35	160J35	J	23.420	22.312	C	4 ¹ / ₁₆	4½	5	7½	1 ¹ / ₁₆	2½	2 ¹ / ₃₂	—	3 ¹ / ₁₆	1.156	135.0	116.0
40	160M40	M	26.610	25.491	C1	5½	6%	6%	9	2 ¹ / ₁₆	2 ¹ / ₁₆	2 ¹ / ₃₂	1 ¹⁹ / ₃₂	5 ¹ / ₁₆	1.156	21.0	174.0
45	160M45	M	29.800	28.671	C1	5½	6%	6%	9	2 ¹ / ₁₆	2 ¹ / ₁₆	2 ¹ / ₃₂	1 ¹⁹ / ₃₂	5 ¹ / ₁₆	1.156	245.0	208.0
54	160M54	M	35.540	34.397	C1	5½	6%	6%	9	2 ¹ / ₁₆	2 ¹ / ₁₆	2 ¹ / ₃₂	1 ¹⁹ / ₃₂	5 ¹ / ₁₆	1.156	299.0	262.0
60	160M60	M	39.360	38.215	C1	5½	6%	6%	9	2 ¹ / ₁₆	2 ¹ / ₁₆	2 ¹ / ₃₂	1 ¹⁹ / ₃₂	5 ¹ / ₁₆	1.156	347.0	310.0
70	160M70	M	45.730	44.578	C1	5½	6%	6%	9	2 ¹ / ₁₆	2 ¹ / ₁₆	2 ¹ / ₃₂	1 ¹⁹ / ₃₂	5 ¹ / ₁₆	1.156	468.0	431.0
80	160M80	M	52.100	50.943	C1	5½	6%	6%	9	2 ¹ / ₁₆	2 ¹ / ₁₆	2 ¹ / ₃₂	1 ¹⁹ / ₃₂	5 ¹ / ₁₆	1.156	567.0	530.0



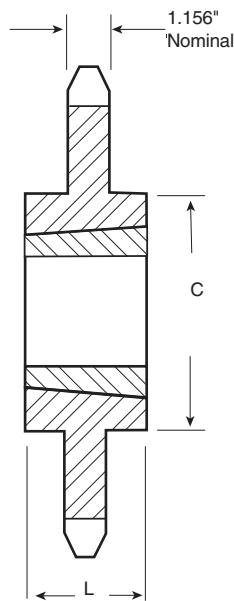
TYPE B

Single - Taper Bushed with Hardened Teeth



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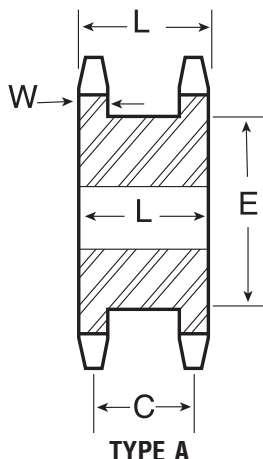
No. Teeth	Catalog Number
11	160BTB11H
12	160BTB12H
13	160BTB13H
14	160BTB14H
15	160BTB15H
16	160BTB16H
17	160BTB17H
18	160BTB18H
19	160BTB19H
21	160BTB21H
26	160BTB26H



TYPE C

Single - Taper Bushed

No. Teeth	Catalog Number	Bushing	Diameter		Max. Bore	Dimensions		Type	Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter		L	C		Rim Only	Bushing Only
11	160BTB11	2517	8.011	7.099	2½	1¼	4¼	B	9.0	3.5
12	160BTB12	3020	8.664	7.727	3	2	5¼	B	11.0	6.5
13	160BTB13	3020	9.314	8.357	3	2	5¼	B	13.0	6.5
14	160BTB14	3020	9.963	8.988	3	2	5¼	B	16.0	6.5
15	160BTB15	3535	10.609	9.620	3½	3½	6½	B	25.0	14.0
16	160BTB16	3535	11.255	10.252	3½	3½	6½	B	28.0	14.0
17	160BTB17	3535	11.899	10.885	3½	3½	6½	B	32.0	14.0
18	160BTB18	3535	12.543	11.518	3½	3½	6½	B	35.0	14.0
19	160BTB19	3535	13.185	12.151	3½	3½	6½	B	39.0	14.0
21	160BTB21	3535	14.470	13.419	3½	3½	6½	B	48.0	14.0
26	160BTB26	3535	17.671	16.593	3½	3½	6½	B	68.0	14.0
35	160CTB35	4040	23.422	22.312	4	4	7¾	C	118.0	14.0
45	160CTB45	4040	29.802	28.671	4	4	7¾	C	186.0	22.0
60	160CTB60	4545	39.362	38.215	4½	4½	8¾	C	292.0	30.0



TYPE A

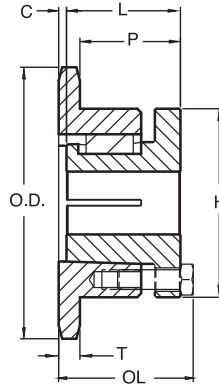
Double Single - Type A — Steel

No. Teeth	Catalog Number	Diameters		Type	Min. Bore	Max. Bore	Dimensions			Wt. Lbs. (Approx.)	
		Outside Diameter	Pitch Diameter				L	C	E		
15	DS160A15	10.609	9.620	A	1¼	5½	4¼	3¾	7¼	1.156	69.0
16	DS160A16	11.255	10.252	A	1¼	6	4¼	3¾	8¼	1.156	75.0
17	DS160A17	11.899	10.885	A	1¼	6½	4¼	3¾	8¾	1.156	92.0
18	DS160A18	12.543	11.518	A	1¼	6¾	4¼	3¾	9¼	1.156	97.0

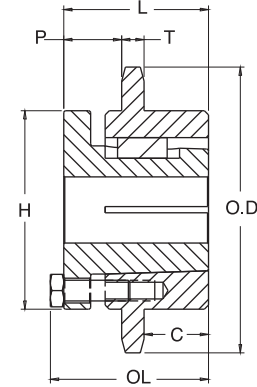
No. 160

2" Pitch

MST® Sprockets



TYPE 4

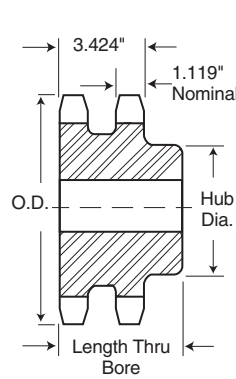


TYPE 6

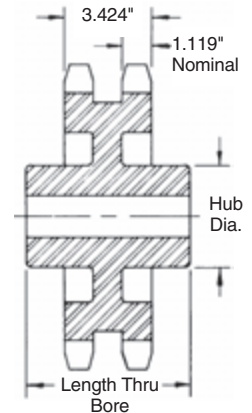
Single - MST® Sprockets

No. Teeth	Catalog Number	Bush-ing	Diameters		Type	Max. Bore	Dimensions						Weight Lbs. (Approx.)	
			Outside Dia.	Pitch Dia.			OL	L	C	H	P	T(nom)	With Hub	Rim Only
11	160R11H	R1	8.010	7.099	4	3-3/4	3-13/32	2-7/8	1/4	5-3/8	1-31/32	1.156	18.3	10.8
12	160R12H	R1	8.660	7.727	4	3-3/4	3-13/32	2-7/8	1/4	5-3/8	1-31/32	1.156	21.7	14.2
13	160R13H	R1	9.310	8.357	4	3-3/4	3-5/32	2-7/8	—	5-3/8	1-23/32	1.156	23.0	15.5
14	160R14H	R1	9.960	8.988	4	3-3/4	3-5/32	2-7/8	—	5-3/8	1-23/32	1.156	26.0	18.5
15	160R15H	R1	10.610	9.620	4	3-3/4	3-5/32	2-7/8	—	5-3/8	1-23/32	1.156	29.1	21.6
16	160R16H	R1	11.260	10.252	4	3-3/4	3-5/32	2-7/8	—	5-3/8	1-23/32	1.156	32.5	25.0
17	160R17H	R1	11.900	10.885	4	3-3/4	3-5/32	2-7/8	—	5-3/8	1-23/32	1.156	35.5	28.0
18	160R18H	R1	12.540	11.518	4	3-3/4	3-5/32	2-7/8	—	5-3/8	1-23/32	1.156	39.4	31.9
19	160R19H	R1	13.190	12.151	4	3-3/4	3-5/32	2-7/8	—	5-3/8	1-23/32	1.156	43.4	35.9
20	160R20H	R2	13.830	12.785	6	3-5/8	5-5/32	4-7/8	2	5-3/8	1-23/32	1.156	62.0	51.0
21	160R21H	R2	14.470	13.419	6	3-5/8	5-5/32	4-7/8	2	5-3/8	1-23/32	1.156	67.0	56.0
22	160R22H	R2	15.110	14.053	6	3-5/8	5-5/32	4-7/8	2	5-3/8	1-23/32	1.156	71.0	60.0
23	160R23H	R2	15.750	14.688	6	3-5/8	5-5/32	4-7/8	2	5-3/8	1-23/32	1.156	76.0	65.0
24	160R24H	R2	16.390	15.323	6	3-5/8	5-5/32	4-7/8	2	5-3/8	1-23/32	1.156	82.5	71.5
25	160R25H	R2	17.030	15.958	6	3-5/8	5-5/32	4-7/8	2	5-3/8	1-23/32	1.156	85.0	74.0
26	160R26H	R2	17.670	16.593	6	3-5/8	5-5/32	4-7/8	2	5-3/8	1-23/32	1.156	90.0	79.0
26	160S26H	S2	17.670	16.593	6	4-3/16	7-1/8	6-3/4	2-7/8	6-3/8	2-23/32	1.156	98.0	79.0
28	160R28H	R2	18.950	17.863	6	3-5/8	5-5/32	4-7/8	2	5-3/8	1-23/32	1.156	110.8	99.8
28	160S28H	S2	19.950	17.863	6	4-3/16	7-1/8	6-3/4	2-7/8	6-3/8	2-23/32	1.156	118.8	99.8
30	160R30H	R2	20.230	19.134	6	3-5/8	5-5/32	4-7/8	2	5-3/8	1-23/32	1.156	117.0	106.0
30	160S30H	S2	20.230	19.134	6	4-3/16	7-1/8	6-3/4	2-7/8	6-3/8	2-23/32	1.156	134.0	115.0
35	160S35	S2	23.420	22.312	6	4-3/16	7-1/8	6-3/4	2-7/8	6-3/8	2-23/32	1.156	169.0	150.0
40	160S40	S2	26.610	25.491	6	4-3/16	7-1/8	6-3/4	2-7/8	6-3/8	2-23/32	1.156	184.0	165.0
45	160S45	S2	29.800	28.671	6	4-3/16	7-1/8	6-3/4	2-7/8	6-3/8	2-23/32	1.156	223.0	204.0
60	160U60	U0	39.360	38.215	6	5-1/2	5 25/32	5-1/4	1-15/16	8-3/8	1-21/32	1.156	338.0	308.0
70	160U70	U0	45.730	44.578	6	5-1/2	5 25/32	5-1/4	1-15/16	8-3/8	1-21/32	1.156	384.0	354.0
80	160S80	S2	52.100	50.943	6	4-3/16	7-1/8	6-3/4	2-7/8	6-3/8	2-23/32	1.156	—	—
80	160U80	U1	52.100	50.943	6	5-1/2	7-19/32	7-1/8	2-7/8	8-3/8	2 19/32	1.156	434.0	394.0

Sprockets with "H" suffix have hardened teeth.



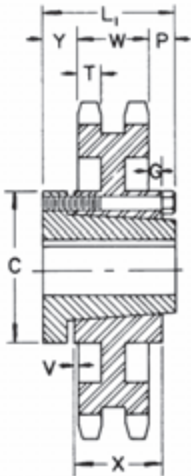
TYPE B



TYPE C

Alteration Charges

See current discount sheet for alteration charges.



QD — TYPE C₆

Double - Type B & C

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs. (App.)
				Stock	Rec. Max.	Dia.	Length Thru	
13	D160B13	9.310	B	2	4	6	4%	48
14	D160B14	9.960	B	2	4%	6%	4%	58
15	D160B15	10.610	B	2	5%	7	4%	68
16	D160B16	11.260	B	2	5%	7	4%	75
17	D160B17	11.900	B	2	5%	7	4%	91
18	D160B18	12.540	B	2	5%	7	4%	96
19	D160B19	13.190	B	2	5%	7	4%	107
20	D160B20	13.830	B	2	5%	7	4%	119
21	D160B21	14.470	B	2	5%	7½	4%	130
22	D160B22	15.110	B	2	5%	7½	4%	141
23	D160B23	15.750	B	2	5%	7½	4%	157
24	D160B24	16.390	B	2	5%	7½	4%	171
25	D160B25	17.030	B	2	5%	7½	4%	187
26	D160B26	17.670	B	2	5%	7½	4%	201
35	D160C35	23.420	C	1½	6%	9½	6%	306
45	D160C45	29.800	C	1½	7	10	7%	431
60	D160C60	39.360	C	1½	7	10	7%	564

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

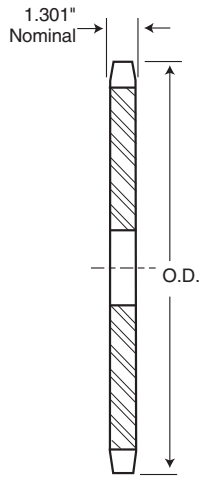
Double - Type QD

No. Teeth	Catalog Number	Bush-ing	Diameters		Type	Max. Bore	Dimensions										Weight Lbs. (Approx.)	
			Outside Diameter	Pitch Diameter			L ₁	L ₂	C	Y	P	G	V	X	T	W	With Hub	Rim Only
35	D160M35	M	23.420	22.312	C6	5½	6%	6%	9	2¼	1½	1½	¾	5⅙	1.119	3.424	259	222
45	D160N45	N	29.800	28.671	C6	6	8%	8%	10	2½	2¾	2½	7⁄8	6%	1.119	3.424	377	340
60	D160N60	N	39.360	38.215	C6	6	8%	8%	10	2½	2¾	2½	7⁄8	6%	1.119	3.424	509	472

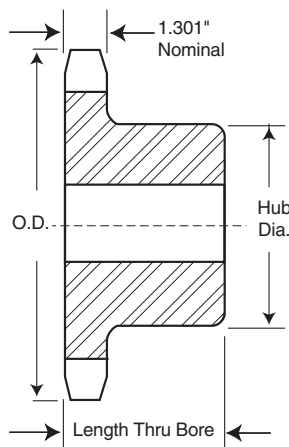
No. 180

2 1/4" Pitch

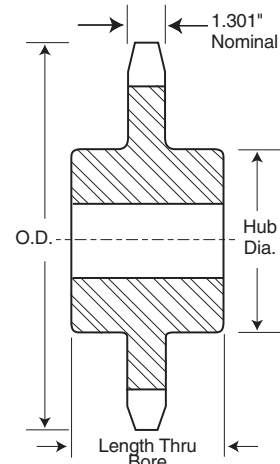
All Steel Stock Sprockets



TYPE A



TYPE B



TYPE C

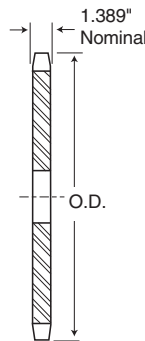
Single - Type B & C

Single - Type A

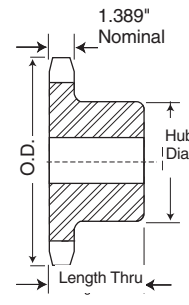
No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs (Approx.)	Type	Catalog Number	Stock Bore	Weight Lbs. (Approx.)
				Stock	Rec. Max.	Dia.	Length Thru					
11	180B11	9.010	B	1 1/2	3 3/8	5 1/2	3	29	A	180A11	1 1/2	14
12	180B12	9.750	B	1 1/2	4	6	3	32	A	180A12	1 1/2	16
13	180B13	10.480	B	1 1/2	4 1/2	6 3/4	3 1/2	40	A	180A13	1 1/2	20
14	180B14	11.210	B	1 1/2	5 1/4	7	3 1/2	44	A	180A14	1 1/2	24
15	180B15	11.930	B	1 1/2	5 1/2	7	3 1/2	48	A	180A15	1 1/2	28
16	180B16	12.660	B	1 1/2	5 1/2	7	3 1/2	52	A	180A16	1 1/2	32
17	180B17	13.390	B	1 1/2	5 1/2	7	3 1/2	58	A	180A17	1 1/2	37
18	180B18	14.110	B	1 1/2	5 1/2	7	3 1/2	63	A	180A18	1 1/2	43
19	180B19	14.830	B	1 1/2	5 1/2	7 1/2	3 1/2	74	A	180A19	1 1/2	47
20	180B20	15.560	B	1 1/2	5 1/2	7 1/2	3 1/2	81	A	180A20	1 1/2	53
21	180B21	16.280	B	1 1/2	5 1/2	7 1/2	3 1/2	83	A	180A21	1 1/2	57
22	180B22	17.000	B	1 1/2	5 1/2	7 1/2	3 1/2	92	A	180A22	1 1/2	62
23	180B23	17.720	B	1 1/2	5 1/2	7 1/2	3 1/2	99	A	180A23	1 1/2	69
24	180B24	18.440	B	1 1/2	5 1/2	7 1/2	3 1/2	105	A	180A24	1 1/2	77
25	180B25	19.160	B	1 1/2	5 1/2	7 1/2	3 1/2	113	A	180A25	1 1/2	84
28	180B28	21.320	B	1 1/2	5 1/2	8	3 1/2	135	A	180A28	1 1/2	104
30	180C30	22.760	C	1 1/2	5 1/2	8 1/2	4 1/2	180	A	180A30	1 1/2	120
35	180C35	26.350	C	1 1/2	5 1/2	8 1/2	4 1/2	222	A	180A35	1 1/2	172
40	180C40	29.940	C	1 1/2	5 1/2	8 1/2	4 1/2	270	A	180A40	1 1/2	229
45	180C45	33.530	C	1 1/2	6	9	5	315	A	180A45	1 1/2	284
54	180C54	39.980	C	1 1/2	6	9	5	477	A	180A54	1 1/2	420
60	180C60	44.280	C	1 1/2	6 1/2	9 1/2	5 1/2	489	A	180A60	1 1/2	505

Alteration Charges
See current discount sheet for alteration charges.

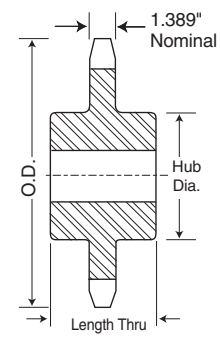
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.



TYPE A



TYPE B



TYPE C

Single - Type B & C

Single - Type A

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)	Type	Catalog Number	Stock Bore	Weight Lbs. (Approx.)
				Stock	Rec. Max.	Diameter	Length Thru					
10	200B10	9.200	B	1 1/2	3 3/4	5 1/2	3	26	A	200A10	1 1/2	16
11	200B11	10.020	B	1 1/2	4	6	3	33	A	200A11	1 1/2	20
12	200B12	10.830	B	1 1/2	4 1/2	6 1/2	3	37	A	200A12	1 1/2	24
13	200B13	11.640	B	1 1/2	5 1/4	7	3	46	A	200A13	1 1/2	30
14	200B14	12.460	B	1 1/2	5 5/8	7 1/2	3 1/2	59	A	200A14	1 1/2	32
15	200B15	13.260	B	1 1/2	5 5/8	7 1/2	3 1/2	64	A	200A15	1 1/2	40
16	200B16	14.070	B	1 1/2	5 5/8	7 1/2	3 1/2	72	A	200A16	1 1/2	46
17	200B17	14.870	B	1 1/2	5 5/8	7 1/2	3 1/2	76	A	200A17	1 1/2	51
18	200B18	15.680	B	1 1/2	5 5/8	7 1/2	3 1/2	84	A	200A18	1 1/2	57
19	200B19	16.480	B	1 1/2	5 5/8	7 1/2	3 1/2	91	A	200A19	1 1/2	65
20	200B20	17.290	B	1 1/2	5 5/8	7 1/2	3 1/2	98	A	200A20	1 1/2	72
21	200B21	18.090	B	1 1/2	5 5/8	7 1/2	3 1/2	106	A	200A21	1 1/2	82
22	200B22	18.890	B	1 1/2	5 5/8	8 1/2	4	131	A	200A22	1 1/2	88
23	200B23	19.690	B	1 1/2	5 5/8	8 1/2	4	136	A	200A23	1 1/2	95
24	200B24	20.490	B	1 1/2	5 5/8	8 1/2	4	142	A	200A24	1 1/2	105
25	200B25	21.290	B	1 1/2	5 5/8	8 1/2	4	153	A	200A25	1 1/2	113
26	200C26	22.090	C	1 1/2	5 5/8	8 1/2	4 1/2	178	A	200A26	1 1/2	124
28	200C28	23.690	C	1 1/2	5 5/8	8 1/2	4 1/2	195	A	200A28	1 1/2	144
30	200C30	25.290	C	1 1/2	5 5/8	8 1/2	4 1/2	212	A	200A30	1 1/2	167
32	200C32	26.880	C	1 1/2	5 5/8	8 1/2	4 1/2	220	A	200A32	1 1/2	195
35	200C35	29.280	C	1 1/2	5 5/8	8 1/2	4 1/2	254	A	200A35	1 1/2	227
40	200C40	33.270	C	1 1/2	6	9	5	320	A	200A40	1 1/2	301
45	200C45	37.250	C	1 1/2	6	9	5	364	A	200A45	1 1/2	390
54	200C54	44.420	C	1 1/2	6 1/2	9 1/2	5 1/2	512	A	200A54	1 1/2	555
60	200C60	49.200	C	1 1/2	6 1/2	9 1/2	5 1/2	654	A	200A60	1 1/2	692

Alteration Charges
See current discount sheet for alteration charges.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

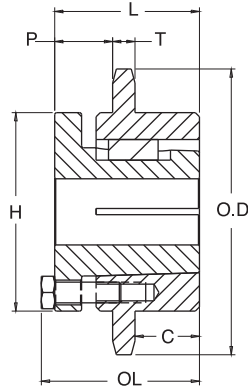
Single - Type QD

No. Teeth	Catalog Number	Bushing	Diameters		Type	Max. Bore	Dimensions										Weight Lbs. (Approx.)	
			Outside Dia.	Pitch Dia.			L ₁	L ₂	C	Y	P	G	V	X	T	With Hub	Rim Only	
12	200F12	F	10.830	9.660	C	3 1/16	3 3/4	4	6 3/4	1	1 1/16	1 1/8	—	2 1/2	1.389	25.5	24.0	
13	200J13	J	11.640	10.447	C	4 1/16	4 1/2	5	7 1/4	1 1/16	2	1 1/8	—	3 3/16	1.389	50.5	32.0	
14	200J14	J	12.460	11.235	C	4 7/16	4 1/2	5	7 3/4	1 1/16	2	1 1/8	—	3 3/16	1.389	57.5	39.0	
15	200J15	J	13.260	12.025	C	4 7/16	4 1/2	5	7 3/4	1 1/16	2	1 1/8	—	3 3/16	1.389	62.5	44.0	
16	200J16	J	14.070	12.815	C	4 7/16	4 1/2	5	7 3/4	1 1/16	2	1 1/8	—	3 3/16	1.389	68.5	50.0	
17	200M17	M	14.870	13.605	C1	5 1/2	6 3/4	6 3/4	9	2 29/32	2 29/32	2 5/16	1 1/2	5 5/16	1.389	113.0	76.0	
18	200M18	M	15.680	14.397	C1	5 1/2	6 3/4	6 3/4	9	2 29/32	2 29/32	2 5/16	1 1/2	5 5/16	1.389	119.0	82.0	
19	200M19	M	16.480	15.910	C1	5 1/2	6 3/4	6 3/4	9	2 29/32	2 29/32	2 5/16	1 1/2	5 5/16	1.389	125.0	88.0	
20	200M20	M	17.290	15.982	C1	5 1/2	6 3/4	6 3/4	9	2 29/32	2 29/32	2 5/16	1 1/2	5 5/16	1.389	134.0	97.0	
21	200M21	M	18.090	16.775	C1	5 1/2	6 3/4	6 3/4	9	2 29/32	2 29/32	2 5/16	1 1/2	5 5/16	1.389	140.0	103.0	
22	200M22	M	18.890	17.567	C1	5 1/2	6 3/4	6 3/4	9	2 29/32	2 29/32	2 5/16	1 1/2	5 5/16	1.389	149.0	112.0	
23	200M23	M	19.690	18.360	C1	5 1/2	6 3/4	6 3/4	9	2 29/32	2 29/32	2 5/16	1 1/2	5 5/16	1.389	157.0	120.0	
24	200M24	M	20.490	19.152	C1	5 1/2	6 3/4	6 3/4	9	2 29/32	2 29/32	2 5/16	1 1/2	5 5/16	1.389	168.0	131.0	
25	200M25	M	21.290	19.947	C1	5 1/2	6 3/4	6 3/4	9	2 29/32	2 29/32	2 5/16	1 1/2	5 5/16	1.389	175.0	138.0	
26	200M26	M	22.090	20.740	C1	5 1/2	6 3/4	6 3/4	9	2 29/32	2 29/32	2 5/16	1 1/2	5 5/16	1.389	185.0	148.0	
28	200M28	M	23.690	22.330	C1	5 1/2	6 3/4	6 3/4	9	2 29/32	2 29/32	2 5/16	1 1/2	5 5/16	1.389	205.0	168.0	
30	200M30	M	25.290	23.917	C1	5 1/2	6 3/4	6 3/4	9	2 29/32	2 29/32	2 5/16	1 1/2	5 5/16	1.389	227.0	190.0	
32	200M32	M	26.880	25.505	C1	5 1/2	6 3/4	6 3/4	9	2 29/32	2 29/32	2 5/16	1 1/2	5 5/16	1.389	251.0	214.0	
35	200M35	M	29.280	27.890	C1	5 1/2	6 3/4	6 3/4	9	2 29/32	2 29/32	2 5/16	1 1/2	5 5/16	1.389	265.0	228.0	
40	200M40	M	33.270	31.865	C1	5 1/2	6 3/4	6 3/4	9	2 29/32	2 29/32	2 5/16	1 1/2	5 5/16	1.389	315.0	278.0	
45	200N45	N	37.250	35.840	C1	5 5/8	8 1/2	8 1/2	10	3 13/32	3 13/32	3 3/16	1 1/16	6 1/4	1.389	405.0	348.0	
54	200N54	N	44.420	42.995	C1	5 5/8	8 1/2	8 1/2	10	3 13/32	3 13/32	3 3/16	1 1/16	6 1/4	1.389	535.0	478.0	
60	200N60	N	49.200	47.767	C1	5 5/8	8 1/2	8 1/2	10	3 13/32	3 13/32	3 3/16	1 1/16	6 1/4	1.389	665.0	608.0	

No. 200

2 1/2" Pitch

All Steel Stock Sprockets

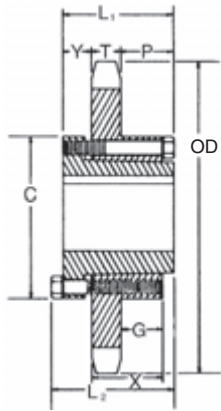


TYPE 6

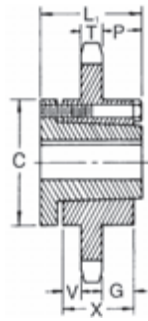
Single - MST® Sprockets

No. Teeth	Catalog Number	Bush-ing	Diameters		Type	Max. Bore	Dimensions						Weight Lbs. (Approx.)	
			Outside Dia.	Pitch Dia.			OL	L	C	H	P	T(nom)	With Hub	Rim Only
12	200R12	R2	10.830	9.660	6	3-5/8	5-5/32	4-7/8	2	5-3/8	1-1/2	1.389	46.3	35.3
13	200S13	S2	11.640	10.447	6	4-3/16	7-1/8	6-3/4	2-7/8	6-3/8	2-1/2	1.389	71.2	52.2
14	200S14	S2	12.460	11.235	6	4-3/16	7-1/8	6-3/4	2-7/8	6-3/8	2-1/2	1.389	76.5	57.5
15	200S15	S2	13.260	12.025	6	4-3/16	7-1/8	6-3/4	2-7/8	6-3/8	2-1/2	1.389	80.0	61.0
16	200S16	S2	14.070	12.815	6	4-3/16	7-1/8	6-3/4	2-7/8	6-3/8	2-1/2	1.389	90.0	71.0
17	200S17	S2	14.870	13.605	6	4-3/16	7-1/8	6-3/4	2-7/8	6-3/8	2-1/2	1.389	98.0	79.0
18	200U18	U0	15.680	14.397	6	5-1/2	5-23/32	5-1/4	1-5/8	8-3/8	2-17/32	1.389	106.5	76.5
19	200U19	U0	16.480	15.190	6	5-1/2	5-23/32	5-1/4	1-5/8	8-3/8	2-17/32	1.389	113.7	83.7
20	200U20	U0	17.290	15.982	6	5-1/2	5-23/32	5-1/4	1-5/8	8-3/8	2-17/32	1.389	121.3	91.3
21	200U21	U0	18.090	16.775	6	5-1/2	5-23/32	5-1/4	1-5/8	8-3/8	2-17/32	1.389	129.4	99.4
22	200U22	U0	18.890	17.567	6	5-1/2	5-23/32	5-1/4	1-5/8	8-3/8	2-17/32	1.389	140.0	110.0
23	200U23	U0	19.690	18.360	6	5-1/2	5-23/32	5-1/4	1-5/8	8-3/8	2-17/32	1.389	147.0	117.0
24	200U24	U0	20.490	19.152	6	5-1/2	5-23/32	5-1/4	1-5/8	8-3/8	2-17/32	1.389	156.0	126.0
25	200U25	U0	21.290	19.947	6	5-1/2	5-23/32	5-1/4	1-5/8	8-3/8	2-17/32	1.389	170.0	140.0
26	200U26	U0	22.090	20.740	6	5-1/2	5-23/32	5-1/4	1-5/8	8-3/8	2-17/32	1.389	180.0	150.0
28	200U28	U0	23.690	22.330	6	5-1/2	5-23/32	5-1/4	1-5/8	8-3/8	2-17/32	1.389	199.0	169.0
30	200U30	U0	25.290	23.917	6	5-1/2	5-23/32	5-1/4	1-5/8	8-3/8	2-17/32	1.389	218.0	188.0
32	200U32	U0	26.880	25.505	6	5-1/2	5-23/32	5-1/4	1-5/8	8-3/8	2-17/32	1.389	242.0	212.0
35	200U35	U1	29.280	27.890	6	5-1/2	7-19/32	7-1/8	2-7/8	8-3/8	2-7/8	1.389	292.0	252.0
40	200U40	U1	33.270	31.865	6	5-1/2	7-19/32	7-1/8	2-7/8	8-3/8	2-7/8	1.389	346.0	306.0
45	200U45	U1	37.250	35.840	6	5-1/2	7-19/32	7-1/8	2-7/8	8-3/8	2-7/8	1.389	330.0	290.0
54	200U54	U2	44.420	42.995	6	5	10-19/32	10-1/8	4-1/4	8-3/8	3-29/32	1.389	435.0	385.0
60	200U60	U2	49.200	47.767	6	5	10-19/32	10-1/8	4-1/4	8-3/8	3-29/32	1.389	495.0	445.0

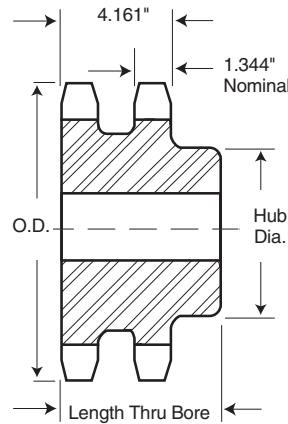
Sprockets with "H" suffix have hardened teeth.



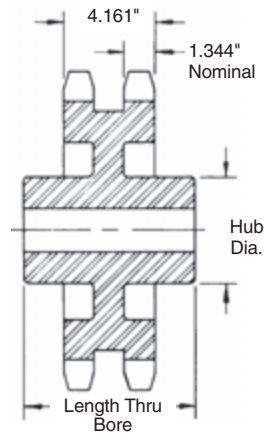
QD — TYPE C



QD — TYPE C1



TYPE B



TYPE C

Double - Type B & C



No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs. (Approx.)
				Stock	Rec. Max.	Dia.	Length Thru	
11	D200B11	10.020	B	2	3 3/4	5 1/2	5 1/2	57
12	D200B12	10.830	B	2	4 1/2	6 1/2	6 1/4	80
13	D200B13	11.640	B	2	5 1/4	7	6 3/4	96
14	D200B14	12.460	B	2	5 1/2	8	6 3/4	119
15	D200B15	13.260	B	2	5 5/8	8 1/2	6 3/4	138
16	D200B16	14.070	B	2	5 3/4	8 3/4	6 3/4	161
17	D200B17	14.870	B	2	5 3/4	8 3/4	6 3/4	178
18	D200B18	15.680	B	2	5 3/4	8 3/4	6 3/4	196
19	D200B19	16.480	B	2	5 3/4	8 3/4	6 3/4	217
20	D200B20	17.290	B	2	5 3/4	8 3/4	6 3/4	236
21	D200B21	18.090	B	2	5 3/4	8 3/4	6 3/4	250
22	D200B22	18.890	B	2	5 3/4	8 3/4	6 3/4	284
23	D200B23	19.690	B	2	5 3/4	8 3/4	6 3/4	308
24	D200B24	20.490	B	2	5 3/4	8 3/4	6 3/4	330
25	D200B25	21.290	B	2	5 3/4	8 3/4	6 3/4	358
26	D200B26	22.090	B	2	5 3/4	8 3/4	6 3/4	386
45	D200C45	37.250	C	1 1/2	7	10	8 1/2	665
60	D200C60	49.200	C	1 1/2	7	10	9	972

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

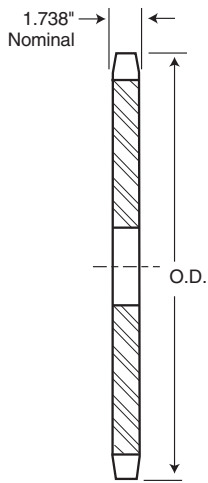
Alteration Charges

See current discount sheet for alteration charges.

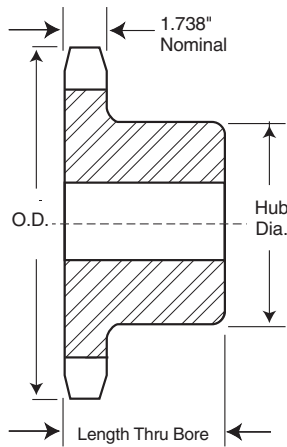
No. 240

3" Pitch

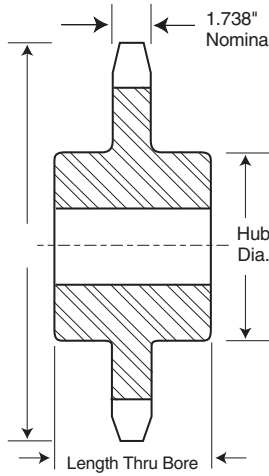
All Steel Stock Sprockets



TYPE A



TYPE B



TYPE C



Single - Type B & C

Single - Type A

No. Teeth	Catalog Number	Outside Diameter	Type	Bore (inches)		Hub (inches)		Weight Lbs (Approx.)	Type	Catalog Number	Stock Bore	Weight Lbs. (Approx.)
				Stock	Rec. Max.	Dia.	Length Thru					
10	240B10	11.030	B	1½	4½	6½	3¾	49.0	A	240A10	1½	30.0
11	240B11	12.020	B	1½	4¾	7	3¾	66.0	A	240A11	1½	37.0
12	240B12	13.000	B	1½	5¾	7½	3¾	72.0	A	240A12	1½	45.0
13	240B13	13.970	B	1½	5¾	7½	3¾	81.0	A	240A13	1½	54.0
14	240B14	14.940	B	1½	5¾	7½	3¾	88.0	A	240A14	1½	62.0
15	240B15	15.910	B	1½	5¾	7½	3¾	98.0	A	240A15	1½	68.0
16	240B16	16.880	B	1½	5¾	8	4¾	120.0	A	240A16	1½	82.0
17	240B17	17.850	B	1½	5¾	8	4¾	137.0	A	240A17	1½	93.0
18	240B18	18.810	B	1½	5¾	8	4¾	142.0	A	240A18	1½	108.0
19	240B19	19.780	B	1½	5¾	8	4¾	154.0	A	240A19	1½	120.0
20	240B20	20.740	B	1½	5¾	8	4¾	169.0	A	240A20	1½	128.0
21	240B21	21.710	B	1½	5¾	8	4¾	186.0	A	240A21	1½	148.0
25	240B25	25.550	B	1½	5¾	8	4¾	254.0	A	240A25	1½	208.0
30	240C30	30.340	C	1½	6	9	6¾	398.0	A	240A30	1½	310.0
35	240C35	35.130	C	1½	6	9	6¾	527.0	A	240A35	1½	416.0
40	240C40	39.920	C	1½	7	10	6¾	672.0	A	240A40	1½	548.0
45	240C45	44.700	C	1½	7	10	6¾	850.0	A	240A45	1½	702.0
54	240C54	53.310	C	1½	7	10	6¾	1148.0	A	240A54	1½	1022.0
60	240C60	59.040	C	1½	7	10	6¾	1419.0	A	240A60	1½	1268.0

Metric Sprockets ISO STANDARDS

Types A - B & C Stock Sprockets



TYPE A
SIMPLEX



TYPE B
SIMPLEX



TYPE C
TRIPLEX



TYPE B
DUPLEX



TAPER BUSHED
SIMPLEX



TAPER BUSHED
DUPLEX



INSTANT
SPLIT® SPROCKET

Made-to-Order



TAPER BUSHED
DOUBLE-SIMPLEX
HARDENED TEETH
Double Simplex



QD
SIMPLEX
QD Sprockets



IDLER
BALL BEARING
Idler Sprockets



TYPE B
SIMPLEX
STAINLESS
Stainless Steel

ISO 06B-1

METRIC 35

Metric Sprockets



CHAIN DATA:

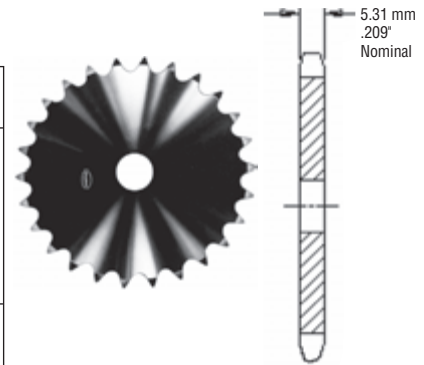
BS 228/3
ISO 06B-1
PITCH: 9.53 mm (0.375")
ROLLER DIAMETER: 6.35 mm (0.250")
ROLLER WIDTH: 5.72 mm (0.225")
TENSILE: 910 kilos (2000 lbs.)

0.375 INCH (9.525 mm) PITCH SIMPLEX

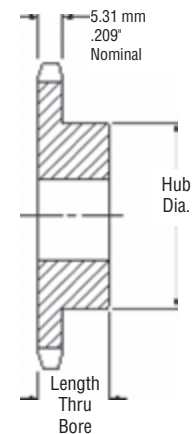
Simplex - Type B — Steel

Simplex - Type A — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight Approx. (kg)	Catalog Number	Bore Stock MM	Weight Approx. (kg)
			Stock MM	Max. MM	Dia. MM	Thru MM				
8	24.89	06B8	8	9	13	22	0.03	—	—	—
9	27.85	06B9	8	11	16	22	0.04	—	—	—
10	30.82	06B10	8	12	20	22	0.06	—	—	—
11	33.81	06B11	8	14	23	25	0.09	—	—	—
12	36.80	06B12	8	16	26	25	0.10	—	—	—
13	39.80	06B13	10	18	29	25	0.11	—	—	—
14	42.80	06B14	10	19	31	25	0.12	—	—	—
15	45.81	06B15	10	20	34	25	0.14	06A15	8	0.07
16	48.82	06B16	10	22	37	25	0.18	06A16	10	0.08
17	51.84	06B17	10	25	40	28	0.20	06A17	10	0.18
18	54.85	06B18	10	25	43	28	0.23	06A18	10	0.11
19	57.87	06B19	10	28	46	28	0.25	06A19	10	0.12
20	60.89	06B20	10	30	49	28	0.31	06A20	10	0.13
21	63.91	06B21	12	30	50	28	0.36	06A21	10	0.14
22	66.93	06B22	12	32	51	28	0.37	06A22	10	0.15
23	69.95	06B23	12	32	52	28	0.39	06A23	10	0.17
24	72.97	06B24	12	32	54	28	0.40	06A24	10	0.19
25	76.00	06B25	12	35	57	28	0.41	06A25	10	0.20
26	79.02	06B26	12	38	60	28	0.42	06A26	10	0.21
27	82.05	06B27	12	38	60	28	0.44	06A27	10	0.22
28	85.07	06B28	12	38	60	28	0.45	06A28	10	0.23
29	88.10	06B29	12	38	60	28	0.47	06A29	10	0.25
30	91.12	06B30	12	38	60	30	0.48	06A30	10	0.27
32	97.18	06B32	14	40	65	30	0.56	06A32	12	0.20
35	106.26	06B35	14	40	65	30	0.68	06A35	12	0.27
36	109.29	06B36	16	45	70	30	0.71	06A36	12	0.28
38	115.35	06B38	16	45	70	30	0.77	06A38	14	0.43
40	121.40	06B40	16	45	70	30	0.81	06A40	14	0.45
42	127.46	06B42	16	45	70	30	0.85	06A42	14	0.48
45	136.55	06B45	16	45	75	30	0.91	06A45	14	0.51
48	145.64	06B48	16	45	75	30	0.97	06A48	14	0.54
54	163.82	06B54	16	45	75	30	1.09	06A54	14	0.61
57	172.91	06B57	19	45	75	30	1.27	06A57	18	0.86
60	182.00	06B60	19	45	75	30	1.34	06A60	18	0.91
64	194.12	06B64	19	45	75	30	1.43	06A64	18	0.97
70	212.30	06B70	19	45	75	30	1.56	06A70	18	1.06
72	218.37	06B72	19	45	75	30	1.60	06A72	18	1.09
76	230.49	06B76	19	45	75	30	1.91	06A76	18	1.45
80	242.61	06B80	19	45	75	30	2.01	06A80	18	1.53
84	254.74	06B84	19	45	75	30	2.11	06A84	18	1.60
90	272.93	06B90	19	52	75	30	2.26	06A90	18	1.72
95	288.08	06B95	19	52	75	30	2.61	06A95	18	2.18
96	291.11	06B96	19	52	75	30	2.64	06A96	18	2.20
114	345.68	06B114	19	52	75	30	3.63	06A114	18	3.13



TYPE A

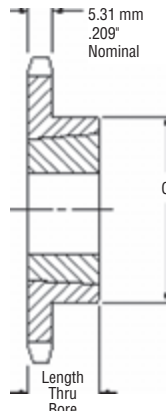
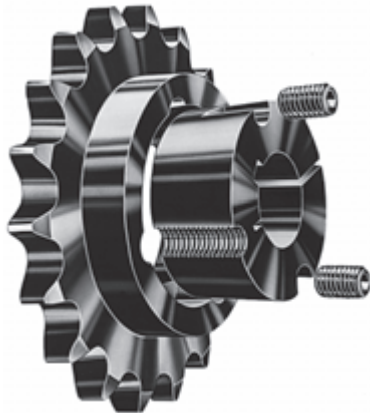


TYPE B

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

0.375 INCH (9.525 mm) PITCH SIMPLEX

CHAIN DATA:
 BS 228/3
 ISO 06B-1
 PITCH: 9.53 mm (0.375")
 ROLLER DIAMETER: 6.35 mm (0.250")
 ROLLER WIDTH: 5.72 mm (0.225")
 TENSILE: 910 kilos (2000 lbs.)



TYPE B

Simplex- Taper Bushed — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bushing Number	Bore Max. MM	Dimension		Weight Approx.	
					L MM	C MM	Rim (kg)	Bushing (kg)
18	54.85	06BTB18H	1008	25.40	22.23	47.63 ★	0.18	0.14
19	57.87	06BTB19H	1008	25.40	22.23	46.04	0.23	0.14
20	60.89	06BTB20H	1008	25.40	22.23	49.20	0.27	0.14
21	63.91	06BTB21H	1008	25.40	22.23	52.39	0.32	0.14
22	66.93	06BTB22H	1210	31.75	25.40	60.33	0.36	0.27
23	69.95	06BTB23H	1210	31.75	25.40	61.91	0.41	0.27
24	72.97	06BTB24H	1210	31.75	25.40	61.91	0.41	0.27
25	76.00	06BTB25H	1210	31.75	25.40	61.91	0.54	0.27
26	79.02	06BTB26H	1610	41.28	25.40	73.03*	0.50	0.41
28	85.07	06BTB28H	1610	41.28	25.40	73.03	0.54	0.41
30	91.12	06BTB30H	1610	41.28	25.40	79.38	0.54	0.41
32	97.18	06BTB32	1610	41.28	25.40	82.55	0.59	0.41
35	106.26	06BTB35	1610	41.28	25.40	82.55	0.64	0.41
36	109.29	06BTB36	1610	41.28	25.40	82.55	0.64	0.41
38	115.35	06BTB38	1610	41.28	25.40	82.55	0.68	0.41
40	121.40	06BTB40	1610	41.28	25.40	82.55	0.86	0.41
45	136.55	06BTB45	1610	41.28	25.40	82.55	0.95	0.41
48	145.65	06BTB48	1610	41.28	25.40	82.55	1.04	0.41
54	163.82	06BTB54	1610	41.28	25.40	82.55	1.18	0.41
57	172.91	06BTB57	1610	41.28	25.40	82.55	1.25	0.41
60	182.00	06BTB60	1610	41.28	25.40	82.55	1.36	0.41
70	212.30	06BTB70	1610	41.28	25.40	82.55	1.68	0.41
76	230.49	06BTB76	1610	41.28	25.40	82.55	1.82	0.41
95	288.08	06BTB95	1610	41.28	25.40	82.55	2.28	0.41

★ Has recessed groove in hub for chain clearance.
 Sprockets with "H" suffix have hardened teeth.

ISO 06B-2

METRIC 35-2

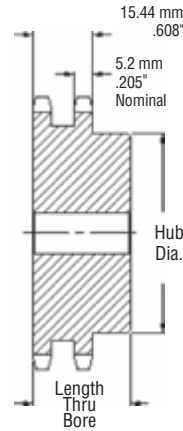
Metric Sprockets



CHAIN DATA:

BS 228/3
 ISO 06B-2
 PITCH: 9.53 mm (0.375")
 ROLLER DIAMETER: 6.35 mm (0.250")
 ROLLER WIDTH: 5.72 mm (0.225")
 TENSILE: 1730 kilos (3800 lbs.)

0.375 INCH (9.525 mm) PITCH DUPLEX WIDTH CHAIN



TYPE B

Duplex - Type B — Steel

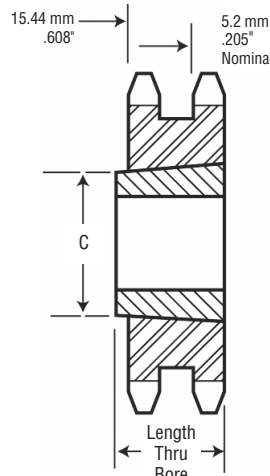
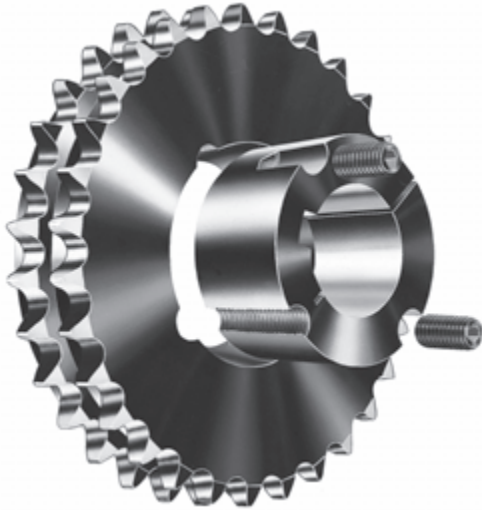
No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight Approx. (kg)
			Stock MM	Max. MM	Dia. MM	Thru MM	
12	36.80	D06B12	10	16	25	25	0.16
13	39.79	D06B13	10	18	28	25	0.20
14	42.80	D06B14	10	18	31	25	0.25
15	45.81	D06B15	10	20	34	25	0.29
16	48.82	D06B16	12	20	37	30	0.34
17	51.83	D06B17	12	24	40	30	0.39
18	54.85	D06B18	12	25	43	30	0.45
19	57.87	D06B19	12	28	46	30	0.52
20	60.89	D06B20	12	30	49	30	0.59
21	63.91	D06B21	12	30	52	30	0.68
22	66.93	D06B22	12	35	55	30	0.75
23	69.95	D06B23	12	38	58	30	0.80
24	72.97	D06B24	12	39	61	30	0.84
25	76.00	D06B25	12	40	64	30	0.89
26	79.02	D06B26	12	42	67	30	0.91
27	82.05	D06B27	12	45	70	30	1.00
28	85.07	D06B28	12	48	73	30	1.07
29	88.10	D06B29	12	50	76	30	1.14
30	91.12	D06B30	12	52	80	30	1.22
32	98.18	D06B32	16	52	80	30	1.30
35	106.26	D06B35	16	52	80	30	1.42
36	109.29	D06B36	16	60	90	30	1.58
38	115.35	D06B38	16	60	90	30	1.72
40	121.40	D06B40	16	52	80	35	1.81
42	127.46	D06B42	19	60	90	35	2.05
45	136.55	D06B45	19	60	90	35	2.35
48	145.64	D06B48	19	60	90	35	2.75
52	157.75	D06B52	19	60	90	35	3.13
57	172.91	D06B57	19	60	90	35	3.47
60	182.00	D06B60	19	60	90	35	3.78
68	206.24	D06B68	19	60	90	35	4.43
70	212.30	D06B70	19	60	90	35	4.56
72	218.37	D06B72	19	60	90	35	4.89
76	230.49	D06B76	19	60	90	38	5.67
84	254.74	D06B84	19	60	90	38	7.10
95	288.08	D06B95	25	62	95	38	8.64
96	291.11	D06B96	25	62	95	38	8.75
114	345.68	D06B114	25	62	95	38	11.12

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

0.375 INCH (9.525 mm) PITCH DUPLEX WIDTH CHAINS

CHAIN DATA:

BS 228/3
 ISO 06B-2
 PITCH: 9.53 mm (0.375")
 ROLLER DIAMETER: 6.35 mm (0.250")
 ROLLER WIDTH: 5.72 mm (0.225")
 TENSILE: 1730 kilos (3800 lbs.)



TYPE B

Duplex - Taper Bushed — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bushing Number	Bore Max. MM	Dimension		Weight Approx.	
					L MM	C MM	Rim (kg)	Bushing (kg)
19	57.87	D06BTB19	1008	25.40	22.23	46.43	0.6	0.14
20	60.89	D06BTB20	1008	25.40	22.23	49.20	0.8	0.14
21	63.91	D06BTB21	1008	25.40	22.23	52.39	1.4	0.14
22	66.93	D06BTB22	1008	25.40	22.23	55.56	1.7	0.14
24	72.97	D06BTB24	1210	31.75	25.40	61.91	1.8	0.27
25	76.00	D06BTB25	1210	31.75	25.40	61.91	1.9	0.27
26	79.02	D06BTB26	1210	31.75	25.40	66.68	2.0	0.27
30	91.12	D06BTB30	1610	41.28	25.40	79.38	1.8	0.41
32	97.18	D06BTB32	1610	41.28	25.40	82.55	2.0	0.41
35	106.26	D06BTB35	1610	41.28	25.40	82.55	2.3	0.41
38	115.34	D06BTB38	1610	41.28	25.40	82.55	2.5	0.41
40	121.40	D06BTB40	1610	41.28	25.40	82.55	2.9	0.41
45	136.55	D06BTB45	1610	41.28	25.40	82.55	3.2	0.41
48	145.65	D06BTB48	1610	41.28	25.40	92.08	3.5	0.41
54	163.82	D06BTB54	1610	41.28	25.40	92.08	3.9	0.41
57	172.91	D06BTB57	1610	41.28	25.40	92.08	4.1	0.41
60	182.00	D06BTB60	1610	41.28	25.40	92.08	4.9	0.41
70	212.30	D06BTB70	1610	41.28	25.40	92.08	6.3	0.41
76	230.49	D06BTB76	1610	41.28	25.40	92.08	6.8	0.41
95	288.08	D06BTB95	1610	41.28	25.40	92.08	6.9	0.41

ISO 06B-3

METRIC 35-3

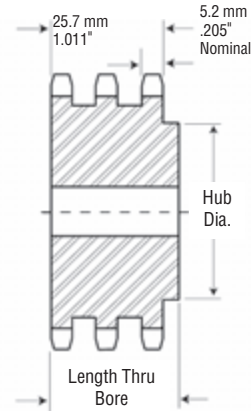
Metric Sprockets



CHAIN DATA:

BS 228/3
 ISO 06B-3
 PITCH: 9.53 mm (0.375")
 ROLLER DIAMETER: 6.35 mm (0.250")
 ROLLER WIDTH: 5.72 mm (0.225")
 TENSILE: 2540 kilos (5600 lbs.)

0.375 INCH (9.525 mm) PITCH TRIPLEX



TYPE B

Triplex - Type B — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight Approx. (kg)
			Stock MM	Max. MM	Dia. MM	Thru MM	
12	36.80	E06B12	12	16	25	35	0.23
13	39.80	E06B13	12	18	28	35	0.27
14	42.80	E06B14	12	18	31	35	0.32
15	45.81	E06B15	12	20	34	35	0.36
16	48.82	E06B16	12	20	37	35	0.45
17	51.84	E06B17	12	24	40	35	0.54
18	54.85	E06B18	12	25	43	35	0.64
19	57.87	E06B19	12	28	46	35	0.72
20	60.89	E06B20	12	30	49	35	0.77
21	63.91	E06B21	14	30	52	40	0.86
22	66.93	E06B22	14	35	54	40	0.95
23	69.95	E06B23	14	38	58	40	1.04
24	72.97	E06B24	14	39	61	40	1.18
25	76.00	E06B25	14	40	64	40	1.27
26	79.02	E06B26	14	42	67	40	1.31
27	82.05	E06B27	14	45	70	40	1.36
28	85.07	E06B28	14	48	73	40	1.50
29	88.10	E06B29	14	50	76	40	1.68
30	91.12	E06B30	14	52	80	40	1.72
32	97.18	E06B32	16	52	80	48	2.00
35	106.26	E06B35	16	52	80	48	2.25
36	109.29	E06B36	16	60	90	40	2.33
38	115.34	E06B38	16	60	90	40	2.49
40	121.40	E06B40	16	52	80	48	2.65
42	127.46	E06B42	19	60	90	48	2.81
45	136.55	E06B45	19	60	90	48	3.00
48	145.64	E06B48	19	60	90	48	3.20
52	157.75	E06B52	19	60	90	48	3.46
57	172.91	E06B57	19	60	90	48	4.77
60	182.00	E06B60	19	60	80	48	5.02
68	206.24	E06B68	19	60	90	48	5.69
72	218.37	E06B72	19	60	90	48	6.02
76	230.49	E06B76	19	64	100	48	8.48
84	254.74	E06B84	19	64	100	48	9.37
95	288.08	E06B95	25	64	100	54	13.61
96	291.11	E06B96	25	64	100	54	13.75
114	345.68	E06B114	25	64	100	54	17.48

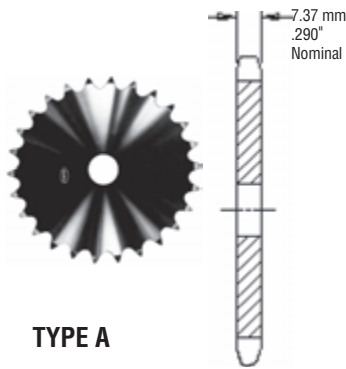
0.500 INCH (12.70 mm) PITCH SIMPLEX

CHAIN DATA:

BS 228/7
 ISO 08B-1
 PITCH: 12.70 mm (0.500")
 ROLLER DIAMETER: 8.51 mm (0.335")
 ROLLER WIDTH: 7.75 mm (0.305")
 TENSILE: 1820 kilos (4000 lbs.)

Simplex - Type B — Steel

Simplex - Type A — Steel



No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight Approx. (kg)	Catalog Number	Bore Stock MM	Weight Approx. (kg)
			Stock MM	Max. MM	Dia. MM	Thru MM				
9	37.13	08B9	10	15	21	25	0.14	—	—	—
10	41.10	08B10	10	20	26	25	0.15	—	—	—
11	45.08	08B11	10	22	30	25	0.17	—	—	—
12	49.07	08B12	10	22	34	28	0.24	08A12	10	0.08
13	53.07	08B13	10	25	38	28	0.25	08A13	10	0.10
14	57.07	08B14	10	28	42	28	0.31	08A14	10	0.12
15	61.08	08B15	10	30	46	28	0.33	08A15	10	0.14
16	65.10	08B16	12	32	50	28	0.37	08A16	10	0.15
17	69.12	08B17	12	35	54	28	0.51	08A17	10	0.16
18	73.14	08B18	12	38	57	28	0.54	08A18	10	0.20
19	77.16	08B19	12	40	64	28	0.65	08A19	10	0.21
20	81.18	08B20	12	42	67	28	0.76	08A20	10	0.25
21	85.21	08B21	12	45	70	28	0.82	08A21	12	0.26
22	89.24	08B22	12	48	73	28	0.88	08A22	12	0.30
23	93.27	08B23	12	51	78	28	1.05	08A23	12	0.33
24	97.30	08B24	14	53	82	28	1.05	08A24	12	0.37
25	101.33	08B25	14	53	82	28	1.13	08A25	12	0.40
26	105.36	08B26	16	53	82	30	1.15	08A26	16	0.43
27	109.40	08B27	16	53	82	30	1.19	08A27	16	0.44
28	113.43	08B28	16	53	82	30	1.30	08A28	16	0.50
29	117.46	08B29	16	53	82	30	1.33	08A29	16	0.55
30	121.50	08B30	16	53	89	30	1.36	08A30	15	0.57
31	125.53	08B31	16	60	89	30	1.41	08A31	15	0.64
32	129.57	08B32	16	60	89	30	1.46	08A32	15	0.67
33	133.61	08B33	16	60	89	30	1.51	08A33	15	0.71
34	137.64	08B34	16	60	89	30	1.56	08A34	15	0.74
35	141.68	08B35	16	60	89	30	1.61	08A35	15	0.77
36	145.72	08B36	16	60	89	35	1.69	08A36	15	0.83
37	149.75	08B37	16	60	89	35	1.74	08A37	15	0.87
38	153.79	08B38	16	60	89	35	1.78	08A38	15	0.91
39	157.83	08B39	19	60	89	35	1.83	08A39	18	0.92
40	161.87	08B40	19	60	89	35	1.88	08A40	18	1.01
42	169.94	08B42	19	60	89	35	1.97	08A42	18	1.13
45	182.06	08B45	19	60	89	35	2.11	08A45	18	1.43
48	194.18	08B48	19	64	100	35	2.76	08A48	18	1.46
54	218.42	08B54	19	64	100	35	3.11	08A54	18	2.01
57	230.54	08B57	19	64	100	35	3.28	08A57	18	2.27
60	242.66	08B60	19	64	100	35	3.45	08A60	18	2.03
64	258.83	08B64	19	64	100	35	3.68	08A64	18	2.17
70	283.07	08B70	19	64	100	35	4.02	08A70	18	3.28
72	291.15	08B72	19	64	100	35	4.13	08A72	18	3.51
76	307.32	08B76	19	64	100	35	5.73	08A76	18	3.70
80	323.49	08B80	19	64	100	35	6.03	08A80	18	4.63
84	339.65	08B84	19	64	100	35	6.33	08A84	18	4.57
95	384.11	08B95	25	64	100	35	8.90	08A95	24	5.45
96	388.15	08B96	25	64	100	35	8.99	08A96	24	5.51
114	460.91	08B114	25	64	100	35	11.17	08A114	24	6.54

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

ISO 08B-1

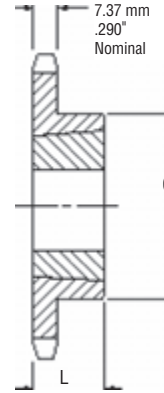
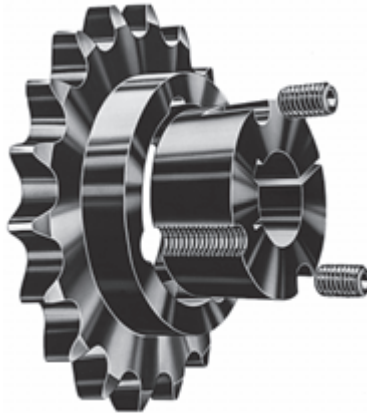
METRIC 40

Metric Sprockets

CHAIN DATA:

BS 228/7
ISO 08B-1
PITCH: 12.70 mm (0.500")
ROLLER DIAMETER: 8.51 mm (0.335")
ROLLER WIDTH: 7.75 mm (0.305")
TENSILE: 1820 kilos (4000 lbs.)

0.500 INCH (12.70 mm) PITCH SIMPLEX



TYPE B

Simplex - Taper Bushed — Steel

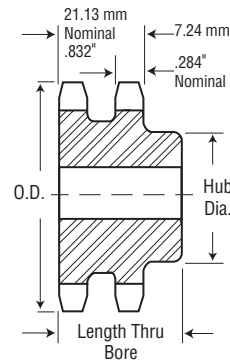
No. Teeth	Pitch Diameter	Catalog Number	Bushing Number	Bore Max. MM	Dimension		Weight Approx.	
	MM				L MM	C MM	Rim (kg)	Bushing (kg)
14	57.07	08BTB14H	1008	25.40	22.23	46★	0.18	0.14
15	61.08	08BTB15H	1008	25.40	22.23	46	0.18	0.14
16	65.10	08BTB16H	1008	25.40	22.23	46	0.23	0.14
17	69.12	08BTB17H	1210	31.75	25.40	60★	0.23	0.14
18	73.14	08BTB18H	1210	31.75	25.40	62★	0.27	0.27
19	77.16	08BTB19H	1210	31.75	25.40	62	0.32	0.27
20	81.18	08BTB20H	1610	41.28	25.40	70★	0.41	0.41
21	85.21	08BTB21H	1610	41.28	25.40	70	0.45	0.41
22	89.24	08BTB22H	1610	41.28	25.40	70	0.50	0.41
23	93.27	08BTB23H	1610	41.28	25.40	76	0.59	0.41
24	97.30	08BTB24H	1610	41.28	25.40	82	0.73	0.41
25	101.33	08BTB25H	1610	41.28	25.40	82	0.73	0.41
26	105.36	08BTB26H	1610	41.28	25.40	82	0.73	0.41
27	109.40	08BTB27H	1610	41.28	25.40	76	0.70	0.41
28	113.43	08BTB28H	1610	41.28	25.40	76	0.73	0.41
29	117.46	08BTB29H	1610	41.28	25.40	76	0.76	0.41
30	121.50	08BTB30H	1610	41.28	25.40	73	0.82	0.41
32	129.57	08BTB32	1610	41.28	25.40	76	0.87	0.41
35	141.68	08BTB35	1610	41.28	25.40	76	0.96	0.41
36	145.72	08BTB36	1610	41.28	25.40	76	0.98	0.41
38	153.79	08BTB38	1610	41.28	25.40	76	1.23	0.41
40	161.87	08BTB40	1610	41.28	25.40	76	1.29	0.41
42	169.94	08BTB42	1610	41.28	25.40	76	1.36	0.41
45	182.06	08BTB45	1610	41.28	25.40	76	1.46	0.41
48	194.18	08BTB48	1610	41.28	25.40	76	1.55	0.41
54	218.42	08BTB54	1610	41.28	25.40	76	1.75	0.41
57	230.54	08BTB57	1610	41.28	25.40	76	2.63	0.41
60	242.66	08BTB60	1610	41.28	25.40	76	2.77	0.41
70	283.07	08BTB70	2012	50.80	31.75	90	3.93	0.41
72	291.15	08BTB72	2012	50.80	31.75	90	4.05	0.41
76	307.32	08BTB76	2012	50.80	31.75	90	4.27	0.77
80	323.49	08BTB80	2012	50.80	31.75	90	4.49	0.77
84	339.65	08BTB84	2012	50.80	31.75	90	4.72	0.77
95	384.11	08BTB95	2012	50.80	31.75	90	6.81	0.77
96	388.15	08BTB96	2012	50.80	31.75	90	6.88	0.77
114	460.91	08BTB114	2517	63.50	44.45	108	10.44	0.77

★ Has recessed groove in hub for chain clearance.
Sprockets with "H" suffix have hardened teeth.

0.500 INCH (12.70 mm) PITCH DUPLEX

CHAIN DATA:

BS 228/7
 ISO 08B-2
 PITCH: 12.70 mm (0.500")
 ROLLER DIAMETER: 8.51 mm (0.335")
 ROLLER WIDTH: 7.75 mm (0.305")
 TENSILE: 3180 kilos (7000 lbs.)



Duplex - Type B — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight Approx. (kg)
			Stock MM	Max. MM	Dia. MM	Thru MM	
10	41.10	D08B10	10	18	26	32	0.22
11	45.08	D08B11	11	21	30	35	0.22
12	49.07	D08B12	12	23	34	35	0.26
13	53.07	D08B13	12	25	38	35	0.28
14	57.07	D08B14	12	28	42	35	0.34
15	61.08	D08B15	12	30	46	35	0.36
16	65.10	D08B16	14	33	50	35	0.35
17	69.12	D08B17	14	36	54	35	0.44
18	73.14	D08B18	14	38	58	35	0.49
19	77.16	D08B19	14	40	62	35	0.57
20	81.18	D08B20	14	40	66	35	0.65
21	85.21	D08B21	16	45	70	40	0.72
22	89.24	D08B22	16	45	70	40	0.73
23	93.27	D08B23	16	45	70	40	0.83
24	97.30	D08B24	16	50	75	40	0.94
25	101.33	D08B25	16	52	80	40	0.98
26	105.36	D08B26	20	56	85	40	1.04
27	109.40	D08B27	20	56	85	40	1.08
28	113.43	D08B28	20	60	90	40	1.10
29	117.46	D08B29	20	62	95	40	1.14
30	121.50	D08B30	20	64	100	40	1.16
32	129.57	D08B32	20	64	100	40	1.24
35	141.68	D08B35	20	64	100	40	1.35
36	145.72	D08B36	20	73	110	40	2.05
38	153.79	D08B38	20	73	110	45	2.17
40	161.87	D08B40	20	73	110	45	2.28
42	169.94	D08B42	20	73	110	45	2.32
45	182.06	D08B45	20	73	110	45	2.49
48	194.18	D08B48	20	73	110	45	2.65
54	218.42	D08B54	25	73	110	45	2.98
57	230.54	D08B57	25	73	110	45	3.88
60	242.66	D08B60	25	73	110	45	4.08
68	283.07	D08B68	25	73	110	45	4.63
72	291.16	D08B72	25	73	110	45	4.90
76	307.32	D08B76	30	80	120	45	6.60
84	339.65	D08B84	30	80	120	45	7.29
95	384.11	D08B95	30	80	120	45	9.89
96	388.15	D08B96	30	80	120	45	9.99
114	460.90	D08B114	30	80	120	45	12.88

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

ISO 08B-2

METRIC 40-2

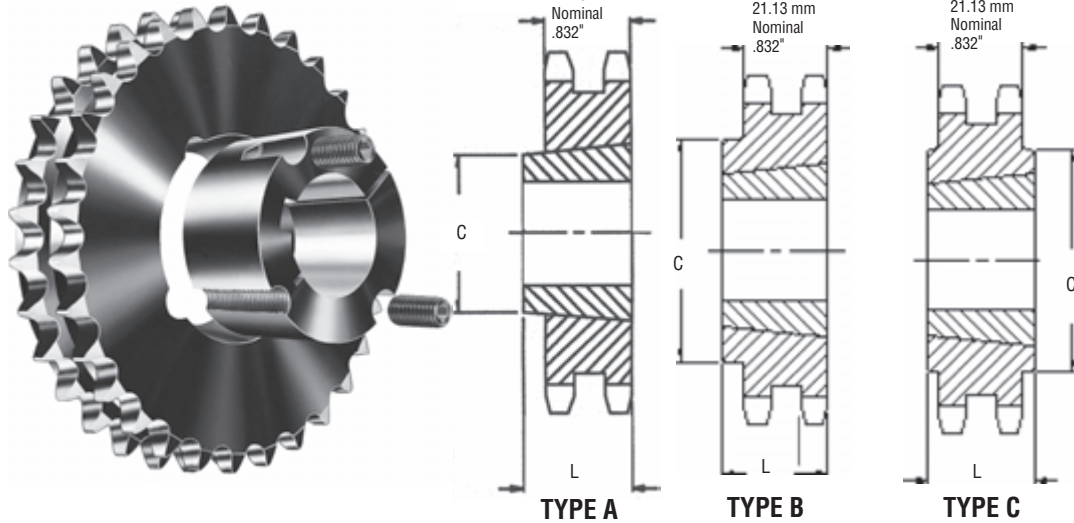
Metric Sprockets



CHAIN DATA:

BS 228/7
 ISO 08B-2
 PITCH: 12.70 mm (0.500")
 ROLLER DIAMETER: 8.51 mm
 (0.335")
 ROLLER WIDTH: 7.75 mm (0.305")
 TENSILE: 3180 kilos (7000 lbs.)

0.500 INCH (12.70 mm) PITCH DUPLEX



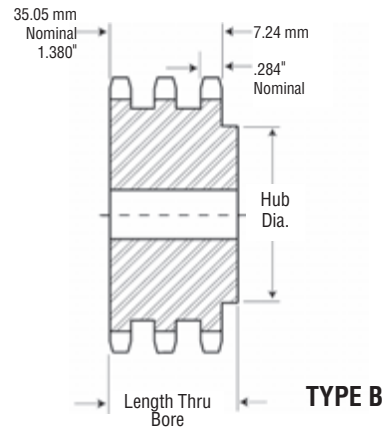
Duplex - Taper Bushed — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bushing Number	Bore Max. MM	Dimension		Weight	
					L MM	C MM	Rim (kg)	Bushing (kg)
15	61.08	D08ATB15	1008	25.40	22.22	—	0.18	0.13
16	65.10	D08ATB16	1008	25.40	22.22	—	0.22	0.13
17	69.12	D08ATB17	1008	25.40	22.22	—	0.27	0.13
18	73.14	D08BTB18	1210	31.75	25.40	58	0.27	0.27
19	77.16	D08BTB19	1210	31.75	25.40	63	0.36	0.27
20	81.18	D08BTB20	1610	41.27	25.40	70	0.37	0.41
21	85.21	D08BTB21	1610	41.27	25.40	70	0.46	0.41
22	89.24	D08BTB22	1610	41.27	25.40	74	0.55	0.41
23	93.27	D08BTB23	1610	41.27	25.40	78	0.59	0.41
24	97.30	D08BTB24	2012	41.27	25.40	83	0.70	0.41
25	101.33	D08BTB25	2012	50.80	31.75	87	0.77	0.77
26	105.36	D08BTB26	2012	50.80	31.75	87	0.80	0.77
28	113.43	D08BTB28	2012	50.80	31.75	99	1.06	0.77
30	121.50	D08BTB30	2012	50.80	31.75	108	1.59	0.77
35	141.68	D08BTB35	2012	50.80	31.75	108	1.86	0.77
36	145.72	D08BTB36	2012	50.80	31.75	108	1.91	0.77
38	153.79	D08BTB38	2012	50.80	31.75	108	3.18	0.77
42	169.94	D08CTB42	2517	50.80	44.45	108	5.57	1.59
45	182.06	D08CTB45	2517	63.50	44.45	108	5.97	1.59
48	194.18	D08CTB48	2517	63.50	44.45	108	6.37	1.59
54	218.42	D08CTB54	2517	63.50	44.45	108	7.17	1.59
57	230.54	D08CTB57	2517	63.50	44.45	108	7.56	1.59
60	242.66	D08CTB60	2517	63.50	44.45	108	12.05	1.59
68	274.99	D08CTB68	2517	63.50	44.45	108	13.66	1.59
70	283.07	D08CTB70	2517	63.50	44.45	108	14.06	1.59
72	291.15	D08CTB72	2517	63.50	44.45	108	14.46	1.59
76	307.32	D08CTB76	2517	63.50	44.45	108	15.26	1.59
84	339.65	D08CTB84	2517	63.50	44.45	108	16.87	1.59
95	384.11	D08CTB95	2517	63.50	44.45	108	19.08	1.59
96	388.15	D08CTB96	2517	63.50	44.45	108	19.28	1.59
114	460.91	D08CTB114	2517	63.50	44.45	108	22.90	1.59

0.500 INCH (12.70 mm) PITCH TRIPLEX

CHAIN DATA:

BS 228/7
 ISO 08B-3
 PITCH: 12.70 mm (0.500")
 ROLLER DIAMETER: 8.51 mm (0.335")
 ROLLER WIDTH: 7.75 mm (0.305")
 TENSILE: 4540 kilos (10,000 lbs.)



Triplex - Type B — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight Approx. (kg)
			Stock MM	Max. MM	Dia. MM	Thru MM	
11	45.08	E08B11	14	22	30	50	0.32
12	49.07	E08B12	14	24	34	50	0.45
13	53.06	E08B13	14	25	38	50	0.59
14	57.07	E08B14	14	28	42	50	0.72
15	61.08	E08B15	14	31	46	50	0.81
16	65.10	E08B16	16	35	50	50	0.90
17	69.12	E08B17	16	36	54	50	1.04
18	73.14	E08B18	16	38	58	50	1.22
19	77.16	E08B19	16	40	62	50	1.41
20	81.18	E08B20	16	40	66	50	1.58
21	85.21	E08B21	20	45	70	55	1.81
22	89.24	E08B22	20	45	70	55	2.03
23	93.27	E08B23	20	45	70	55	2.27
24	97.30	E08B24	20	50	75	55	2.44
25	101.33	E08B25	20	52	80	55	2.54
26	105.36	E08B26	20	56	85	55	2.85
27	109.40	E08B27	20	56	85	55	2.85
28	113.43	E08B28	20	60	90	55	3.16
29	117.46	E08B29	20	62	95	55	3.34
30	121.50	E08B30	20	64	100	55	3.48
35	141.68	E08B35	20	73	110	55	4.79
36	145.72	E08B36	25	80	120	55	5.43
38	153.79	E08B38	25	80	120	60	6.49
42	169.94	E08B42	25	80	120	60	7.17
45	182.06	E08B45	25	80	120	60	7.69
48	194.18	E08B48	25	80	120	60	8.20
52	210.34	E08B52	25	80	120	60	8.88
54	218.43	E08B54	25	80	120	60	9.22
57	230.54	E08B57	25	80	120	60	12.62
60	242.66	E08B60	25	85	130	65	13.84
68	274.99	E08B68	25	85	130	65	15.69
72	291.15	E08B72	25	85	130	65	16.61
76	307.32	E08B76	30	85	130	65	22.23
84	339.65	E08B84	30	85	130	65	24.57
95	384.11	E08B95	30	85	130	65	33.11
114	460.91	E08B114	30	85	130	65	41.90

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

ISO 10B-1

METRIC 50

Metric Sprockets

CHAIN DATA:

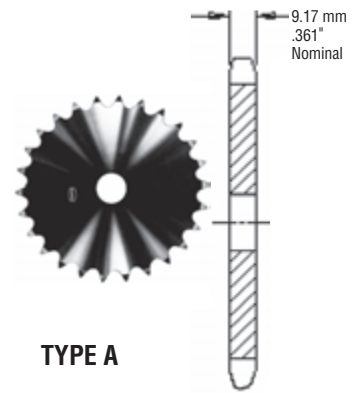
BS 228/11
ISO 10B-1
PITCH: 15.88mm (0.625")
ROLLER DIAMETER: 10.16mm (0.400")
ROLLER WIDTH: 9.65mm (0.380")
TENSILE: 2270 kilos (4500 lbs.)

0.625 INCH (15.88 mm) PITCH SIMPLEX

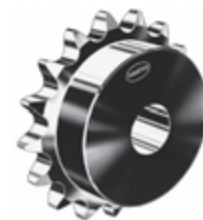
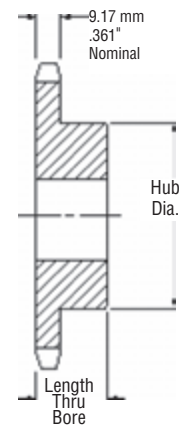
Simplex-Type B — Steel

Simplex-Type A — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight Approx. (kg)	Catalog Number	Bore Stock MM	Weight Approx. (kg)
			Stock MM	Max. MM	Dia. MM	Thru MM				
8	41.48	10B8	12	16	22	25	0.09	—	—	—
9	46.42	10B9	12	19	27	25	0.14	—	—	—
10	51.37	10B10	12	22	32	25	0.23	—	—	—
11	56.35	10B11	12	25	37	25	0.27	—	—	—
12	61.34	10B12	12	32	43	25	0.32	10A12	12	0.15
13	66.33	10B13	12	33	48	25	0.36	10A13	12	0.19
14	71.34	10B14	12	36	53	25	0.45	10A14	12	0.23
15	76.36	10B15	12	38	57	25	0.59	10A15	12	0.25
16	81.37	10B16	12	44	63	25	0.68	10A16	12	0.31
17	86.39	10B17	12	47	67	25	0.82	10A17	12	0.35
18	91.42	10B18	12	48	73	25	0.91	10A18	12	0.39
19	96.45	10B19	16	51	76	25	1.04	10A19	16	0.43
20	101.48	10B20	16	51	76	25	1.13	10A20	16	0.48
21	106.51	10B21	16	51	76	25	1.18	10A21	16	0.51
22	111.55	10B22	16	51	76	25	1.27	10A22	16	0.59
23	116.59	10B23	16	51	76	25	1.45	10A23	16	0.65
24	121.62	10B24	16	51	76	32	1.50	10A24	15	0.68
25	126.66	10B25	16	51	76	32	1.59	10A25	15	0.73
26	131.70	10B26	16	51	76	32	1.63	10A26	15	0.78
27	136.74	10B27	19	51	76	32	1.68	10A27	18	0.89
28	141.79	10B28	19	51	76	32	1.72	10A28	18	0.93
29	146.83	10B29	19	51	76	32	1.91	10A29	18	1.07
30	151.87	10B30	19	57	82	32	2.04	10A30	18	1.15
31	156.92	10B31	19	57	82	32	2.13	10A31	18	1.27
32	161.96	10B32	19	57	82	32	2.27	10A32	18	1.23
33	167.01	10B33	19	57	82	32	2.33	10A33	18	1.42
34	172.05	10B34	19	57	82	32	2.36	10A34	18	1.45
35	177.10	10B35	19	57	82	32	2.48	10A35	18	1.51
36	182.15	10B36	19	57	82	32	2.56	10A36	18	1.73
37	187.19	10B37	19	57	82	32	2.68	10A37	18	1.81
38	192.24	10B38	19	57	82	32	2.72	10A38	18	1.88
39	197.29	10B39	19	57	82	32	2.86	10A39	18	2.00
40	202.33	10B40	19	57	82	32	2.95	10A40	18	2.02
41	207.38	10B41	19	57	82	32	3.01	10A41	18	2.20
42	212.43	10B42	19	57	82	32	3.16	10A42	18	2.26
43	217.48	10B43	19	57	82	32	3.20	10A43	18	2.38
44	222.53	10B44	19	57	82	32	3.44	10A44	18	2.46
45	227.58	10B45	19	64	95	32	3.73	10A45	18	2.69
46	232.63	10B46	19	64	95	32	3.85	10A46	18	2.91
47	237.68	10B47	19	64	95	32	3.89	10A47	18	2.95
48	242.73	10B48	25	64	95	32	4.18	10A48	24	2.98
49	247.78	10B49	25	64	95	32	4.21	10A49	24	3.20
50	252.82	10B50	25	64	95	32	4.40	10A50	24	3.22
51	257.87	10B51	25	64	95	32	4.48	10A51	24	3.32
52	262.92	10B52	25	64	95	32	4.64	10A52	24	3.62
53	267.97	10B53	25	64	95	32	4.75	10A53	24	3.67
54	273.03	10B54	25	64	95	32	4.86	10A54	24	3.76
55	278.08	10B55	25	64	95	32	4.96	10A55	24	3.88
56	283.13	10B56	25	64	95	32	5.22	10A56	24	4.04
57	288.18	10B57	25	64	95	32	5.27	10A57	24	4.25
58	293.23	10B58	25	64	95	32	5.36	10A58	24	4.67
59	298.28	10B59	25	64	95	32	5.59	10A59	24	4.76
60	303.33	10B60	25	64	95	32	5.90	10A60	24	4.90
70	353.84	10B70	25	64	95	44	8.24	10A70	24	6.35
72	363.94	10B72	25	64	95	44	8.84	10A72	24	6.91
76	384.15	10B76	25	64	95	44	11.03	10A76	24	9.11
80	404.36	10B80	25	70	108	44	11.22	10A80	24	9.53
84	424.57	10B84	25	70	108	44	11.57	10A84	24	10.02
95	480.14	10B95	25	70	108	44	14.57	10A95	24	12.25
96	485.19	10B96	25	70	108	44	14.93	10A96	24	12.43
112	566.03	10B112	25	70	108	44	19.05	10A112	24	17.10
114	576.13	10B114	25	70	108	44	20.61	10A114	24	17.84



TYPE A



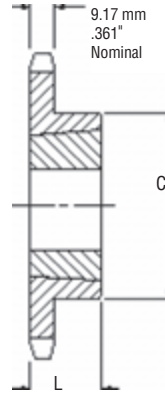
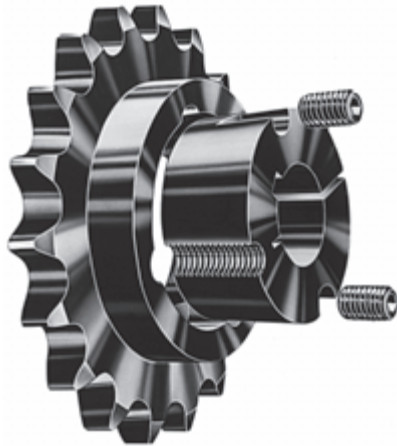
TYPE B

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

0.625 INCH (15.88 mm) PITCH **SIMPLEX**

CHAIN DATA:

BS 228/11
ISO 10B-1
PITCH: 15.88 mm (0.625")
ROLLER DIAMETER: 10.16 mm (0.400")
ROLLER WIDTH: 9.65 mm (0.380")
TENSILE: 2270 kilos (5000 lbs.)



TYPE B

Simplex - Taper Bushed — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bushing Number	Bore Max. MM	Dimension		Weight Approx.	
					L MM	C MM	Rim (kg)	Bushing (kg)
12	61.34	10BTB12H	1008	25.40	22.23	49.20★	0.23	0.14
13	66.33	10BTB13H	1008	25.40	22.23	46.02	0.23	0.14
14	71.34	10BTB14H	1008	25.40	22.23	49.20	0.27	0.14
15	76.35	10BTB15H	1210	31.75	25.40	62.69★	0.32	0.27
16	81.37	10BTB16H	1610	41.28	25.40	70.64★	0.41	0.41
17	86.39	10BTB17H	1610	41.28	25.40	70.64★	0.41	0.41
18	91.42	10BTB18H	1610	41.28	25.40	70.64	0.41	0.41
19	96.45	10BTB19H	1610	41.28	25.40	76.20	0.64	0.41
20	101.48	10BTB20H	1610	41.28	25.40	76.20	0.68	0.41
21	106.51	10BTB21H	1610	41.28	25.40	76.20	0.73	0.41
22	111.55	10BTB22H	1610	41.28	25.40	76.20	0.78	0.41
23	116.59	10BTB23H	2012	50.80	31.75	90.47	0.82	0.77
24	121.62	10BTB24H	2012	50.80	31.75	90.47	0.91	0.77
25	126.66	10BTB25H	2012	50.80	31.75	90.47	1.09	0.77
26	131.70	10BTB26H	2012	50.80	31.75	90.47	1.14	0.77
27	136.74	10BTB27H	2012	50.80	31.75	90.47	1.18	0.77
28	141.79	10BTB28H	2012	50.80	31.75	90.47	1.29	0.77
30	151.87	10BTB30H	2012	50.80	31.75	90.47	1.41	0.77
32	161.96	10BTB32	2012	50.80	31.75	90.47	1.63	0.77
35	177.10	10BTB35	2012	50.80	31.75	90.47	1.91	0.77
36	182.15	10BTB36	2012	50.80	31.75	90.47	1.95	0.77
38	192.24	10BTB38	2012	50.80	31.75	90.47	2.22	0.77
40	202.33	10BTB40	2012	50.80	31.75	90.47	2.36	0.77
42	212.43	10BTB42	2012	50.80	31.75	90.47	2.68	0.77
45	227.58	10BTB45	2012	50.80	31.75	90.47	2.95	0.77
48	242.73	10BTB48	2012	50.80	31.75	90.47	3.31	0.77
54	273.03	10BTB54	2012	50.80	31.75	90.47	4.08	0.77
57	288.18	10BTB57	2012	50.80	31.75	90.47	4.59	0.77
60	303.33	10BTB60	2012	50.80	31.75	90.47	4.90	0.77
70	353.84	10BTB70	2517	63.50	44.45	107.95	6.35	1.59
72	363.94	10BTB72	2517	63.50	44.45	107.95	7.03	1.59
76	384.15	10BTB76	2517	63.50	44.45	107.95	8.31	1.59
80	404.36	10BTB80	2517	63.50	44.45	107.95	8.85	1.59
84	424.57	10BTB84	2517	63.50	44.45	107.95	10.21	1.59
95	480.14	10BTB95	2517	63.50	44.45	107.95	12.76	1.59
96	485.19	10BTB96	2517	63.50	44.45	107.95	13.15	1.59
114	576.13	10BTB114	2517	63.50	44.45	107.95	19.61	1.59

★ Has recessed groove in hub for chain clearance.
Sprockets with "H" suffix have hardened teeth.

ISO 10B-2

METRIC 50-2

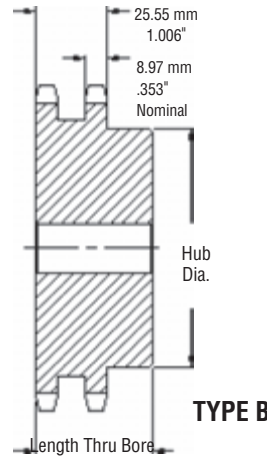
Metric Sprockets



CHAIN DATA:

BS 228/11
ISO 10B-2
PITCH: 15.88 mm (0.625")
ROLLER DIAMETER: 10.16 mm (0.400")
ROLLER WIDTH: 9.65 mm (0.380")
TENSILE: 4540 kilos (10,000 lbs.)

0.625 INCH (15.88 mm) PITCH DUPLEX



Duplex - Type B — Steel

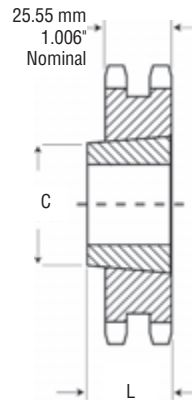
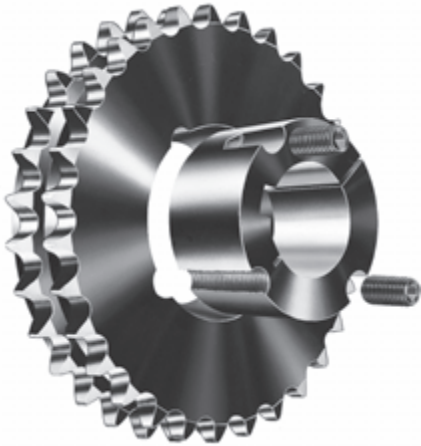
No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight Approx. (kg)
			Stock MM	Max. MM	Dia. MM	Thru MM	
11	56.35	D10B11	14	24	37	40	0.44
12	61.34	D10B12	14	28	43	40	0.57
13	66.33	D10B13	14	33	48	40	0.71
14	71.34	D10B14	14	35	53	40	0.84
15	76.35	D10B15	14	38	58	40	1.01
16	81.37	D10B16	16	40	63	45	1.19
17	86.39	D10B17	16	45	68	45	1.38
18	91.42	D10B18	16	48	73	45	1.62
19	96.45	D10B19	16	52	79	45	1.77
20	101.48	D10B20	16	56	84	45	1.93
21	106.51	D10B21	16	56	85	45	2.22
22	111.55	D10B22	16	60	90	45	2.53
23	116.59	D10B23	16	62	95	45	2.77
24	121.62	D10B24	16	64	100	45	2.95
25	126.66	D10B25	16	68	105	45	3.15
26	131.70	D10B26	20	73	110	45	3.42
27	136.74	D10B27	20	73	110	45	3.98
28	141.79	D10B28	20	76	115	45	4.20
29	146.83	D10B29	20	76	115	45	4.43
30	151.87	D10B30	20	80	120	45	4.66
32	161.96	D10B32	20	80	120	45	5.16
35	177.10	D10B35	20	80	120	45	5.96
36	182.15	D10B36	20	80	120	45	6.70
38	192.24	D10B38	20	80	120	50	7.67
40	202.33	D10B40	30	80	120	50	7.92
45	227.58	D10B45	30	80	120	50	9.21
48	242.73	D10B48	30	80	120	60	10.92
57	288.18	D10B57	32	85	130	60	15.07
60	303.33	D10B60	32	85	130	60	16.27
70	353.84	D10B70	32	85	130	60	21.99
76	384.15	D10B76	32	85	130	60	26.31
80	404.36	D10B80	32	85	130	60	27.98
95	480.14	D10B95	32	85	130	60	32.69
114	576.13	D10B114	32	85	130	60	49.30

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

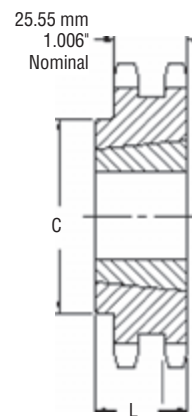
0.625 INCH (15.88 mm) PITCH DUPLEX

CHAIN DATA:

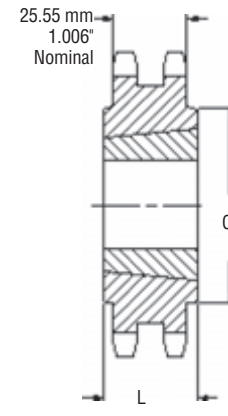
BS 228/11
ISO 10B-2
PITCH: 15.878 mm (0.625")
ROLLER DIAMETER: 10.16 mm (0.400")
ROLLER WIDTH: 9.65 mm (0.380")
TENSILE: 4540 kilos (10,000 lbs.)



TYPE A



TYPE B



TYPE C

Duplex - Taper Bushed — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bushing Number	Bore Max. MM	Dimension		Weight	
					L MM	C MM	Rim (kg)	Bushing (kg)
14	71.34	D10ATB14	1008	25.40	22.23	—	0.45	0.14
15	76.35	D10ATB15	1210	31.75	25.40	—	0.48	0.27
16	81.37	D10ATB16	1210	31.75	25.40	—	0.50	0.27
17	86.39	D10ATB17	1610	41.28	25.40	—	0.57	0.41
18	91.42	D10ATB18	1610	41.28	25.40	—	0.64	0.41
19	96.45	D10ATB19	1610	41.28	25.40	—	0.71	0.41
20	101.49	D10BTB20	2012	50.80	25.40	84.00	0.82	0.77
21	106.52	D10BTB21	2012	50.80	25.40	89.00	0.86	0.77
22	111.55	D10BTB22	2012	50.80	31.75	99.00	1.45	0.77
23	116.59	D10BTB23	2012	50.80	31.75	109.00	1.72	0.77
25	126.66	D10BTB25	2012	50.80	31.75	134.00	3.40	0.77
30	151.87	D10BTB30	2517	63.50	44.45	107.95	3.92	1.59
36	182.15	D10CTB36	2517	63.50	44.45	107.95	4.54	1.59
38	192.24	D10CTB38	2517	63.50	44.45	107.95	5.68	1.59
42	212.43	D10CTB42	2517	63.50	44.45	107.95	7.95	1.59
48	242.73	D10CTB48	2517	63.50	44.45	107.95	11.35	1.59
57	288.18	D10CTB57	2517	63.50	44.45	107.95	19.69	1.59
60	303.33	D10CTB60	2517	63.50	44.45	107.95	22.47	1.59
68	343.74	D10CTB68	2517	63.50	44.45	107.95	25.47	1.59
76	384.15	D10CTB76	2517	63.50	44.45	107.95	37.30	1.59
84	424.57	D10CTB84	2517	63.50	44.45	107.95	44.72	1.59
95	480.14	D10CTB95	2517	63.50	44.45	107.95	52.14	1.59
114	576.13	D10CTB114	2517	63.50	44.45	107.95	62.57	1.59

ISO 10B-3

METRIC 50-3

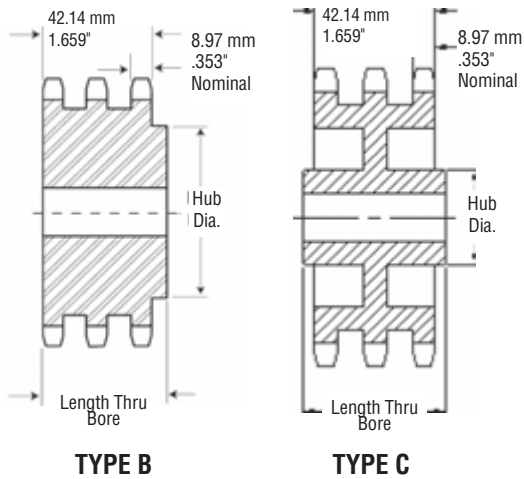
Metric Sprockets



CHAIN DATA:

BS 228/11
ISO 10B-3
PITCH: 15.88 mm (0.625")
ROLLER DIAMETER: 10.16 mm (0.400")
ROLLER WIDTH: 9.65 mm (0.380")
TENSILE: 6810 kilos (10,000 lbs.)

0.625 INCH (15.88 mm) PITCH TRIPLEX



Triplex - Type B/C — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight Approx. (kg)
			Stock MM	Max. MM	Dia. MM	Thru MM	
11	56.35	E10B11	16	24	37	55	0.68
12	61.34	E10B12	16	29	43	55	0.82
13	66.33	E10B13	16	34	48	55	1.05
14	71.34	E10B14	16	35	53	55	1.23
15	76.35	E10B15	16	38	58	55	1.36
16	81.37	E10B16	16	42	63	60	1.55
17	86.39	E10B17	16	45	68	60	1.81
18	91.42	E10B18	16	48	73	60	2.09
19	96.45	E10B19	16	52	79	60	2.40
20	101.48	E10B20	16	56	84	60	2.72
21	106.51	E10B21	20	56	85	60	3.04
22	111.55	E10B22	20	60	90	60	3.36
23	116.59	E10B23	20	62	95	60	3.67
24	121.62	E10B24	20	64	100	60	4.00
25	126.66	E10B25	20	68	105	60	4.31
26	131.70	E10B26	20	73	110	60	5.18
27	136.74	E10B27	20	73	110	60	5.63
28	141.79	E10B28	20	76	115	60	6.04
29	146.83	E10B29	20	76	115	60	6.22
30	151.87	E10B30	20	80	120	60	6.36
32	161.96	E10B32	20	80	120	60	7.26
35	177.10	E10B35	20	80	120	60	8.60
36	182.15	E10B36	25	80	120	60	9.34
38	192.24	E10B38	25	80	120	60	11.03
45	227.58	E10B45	30	80	120	75	14.94
48	242.73	E10B48	30	80	120	75	16.62
57	288.18	E10B57	32	80	120	75	21.77
60	303.33	E10B60	32	80	120	75	22.22
76	384.15	E10C76	32	80	120	89	23.13
80	404.36	E10C80	32	80	120	89	25.14
95	480.14	E10C95	32	80	120	95	32.66
114	576.13	E10C114	32	80	120	95	44.76

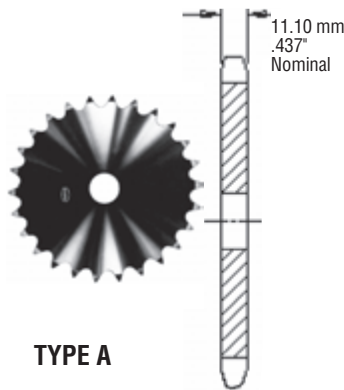
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

0.750 INCH (19.05 mm) PITCH **SIMPLEX**

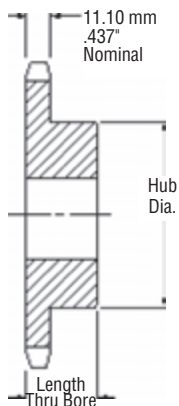
CHAIN DATA:
 BS 228/13
 ISO 12B-1
 PITCH: 19.05 mm (0.750")
 ROLLER DIAMETER: 12.07 mm (0.475")
 ROLLER WIDTH: 11.68 mm (0.460")
 TENSILE: 2,950 kilos (6500 lbs.)

Simplex - Type B — Steel

Simplex - Type A — Steel



TYPE A



TYPE B



No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight Approx. (kg)	Catalog Number	Bore Stock MM	Weight Approx. (kg)
			Stock MM	Max. MM	Dia. MM	Thru MM				
11	67.62	12B11	12	32	47	35	0.53	12A11	14	0.36
12	73.60	12B12	12	35	53	35	0.67	12A12	14	0.42
13	79.60	12B13	12	38	59	35	0.75	12A13	14	0.48
14	85.61	12B14	12	42	64	35	0.91	12A14	14	0.54
15	91.63	12B15	12	45	70	35	1.14	12A15	14	0.60
16	97.65	12B16	16	50	75	35	1.27	12A16	14	0.68
17	103.67	12B17	16	52	80	35	1.46	12A17	14	0.77
18	109.71	12B18	16	52	80	35	1.69	12A18	14	0.85
19	115.74	12B19	16	60	90	35	1.78	12A19	14	0.95
20	121.78	12B20	16	64	90	35	2.10	12A20	14	1.08
21	127.82	12B21	20	64	100	40	2.27	12A21	16	1.15
22	133.86	12B22	20	64	100	40	2.38	12A22	16	1.24
23	139.90	12B23	20	67	100	40	2.49	12A23	16	1.33
24	145.95	12B24	20	67	100	40	2.62	12A24	19	1.47
25	151.99	12B25	20	67	100	40	2.78	12A25	19	1.63
26	158.04	12B26	20	67	100	40	2.89	12A26	19	1.72
27	164.09	12B27	20	67	100	40	3.05	12A27	19	1.91
28	170.14	12B28	20	67	100	40	3.12	12A28	19	1.99
29	176.19	12B29	20	67	100	40	3.30	12A29	19	2.44
30	182.25	12B30	20	67	100	40	3.44	12A30	19	2.28
31	188.30	12B31	20	67	100	40	3.50	12A31	19	2.49
32	194.35	12B32	20	67	100	40	3.75	12A32	19	2.62
33	200.41	12B33	20	67	100	40	3.82	12A33	19	2.77
34	206.46	12B34	20	67	100	40	3.99	12A34	19	2.91
35	212.52	12B35	20	67	100	40	4.10	12A35	19	3.19
36	218.57	12B36	20	67	100	40	4.35	12A36	19	3.21
37	224.63	12B37	20	67	100	40	4.64	12A37	19	3.52
38	230.69	12B38	25	70	107	40	4.92	12A38	24	3.67
39	236.74	12B39	25	70	107	40	5.15	12A39	24	3.87
40	242.80	12B40	25	70	107	40	5.22	12A40	24	4.00
41	248.86	12B41	25	70	107	40	5.51	12A41	24	4.24
42	254.92	12B42	25	70	107	40	5.78	12A42	24	4.53
43	260.98	12B43	25	70	107	40	5.90	12A43	24	4.58
44	267.03	12B44	25	70	107	40	6.30	12A44	25	4.99
45	273.09	12B45	25	70	107	40	6.34	12A45	25	5.14
46	279.15	12B46	25	70	107	40	6.62	12A46	25	5.33
47	285.21	12B47	25	70	107	40	6.80	12A47	25	5.70
48	291.27	12B48	25	70	107	40	7.18	12A48	25	5.75
50	303.39	12B50	25	70	107	40	8.01	12A50	25	6.45
54	327.63	12B54	32	70	110	45	9.80	12A54	32	7.33
57	345.81	12B57	32	70	110	45	10.10	12A57	32	8.11
60	363.99	12B60	32	70	110	45	11.44	12A60	32	9.19
65	394.30	12B65	32	70	110	45	13.12	12A65	32	10.65
70	424.61	12B70	32	70	110	45	14.51	12A70	32	12.45
72	436.73	12B72	32	80	120	50	15.50	12A72	32	13.22
76	460.98	12B76	32	80	120	50	17.26	12A76	32	14.78
80	485.23	12B80	32	80	120	50	19.00	12A80	32	20.75
84	509.48	12B84	32	80	120	50	21.07	12A84	32	21.78
95	576.17	12B95	32	92	140	55	23.83	12A95	32	23.46
96	582.23	12B96	32	92	140	55	26.61	12A96	32	23.71
114	691.36	12B114	32	92	140	55	33.98	12A114	32	28.16

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

ISO 12B-1

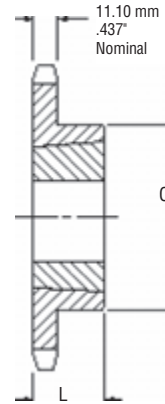
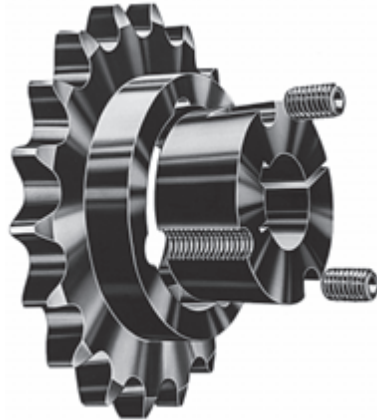
METRIC 60

Metric Sprockets

CHAIN DATA:

BS 228/13
ISO 12B-1
PITCH: 19.05 mm (0.750")
ROLLER DIAMETER: 12.07 mm (0.475")
ROLLER WIDTH: 11.68 mm (0.460")
TENSILE: 2,950 kilos (6500 lbs.)

0.750 INCH (19.05 mm) PITCH **SIMPLEX**



TYPE B

Simplex - Taper Bushed — Steel

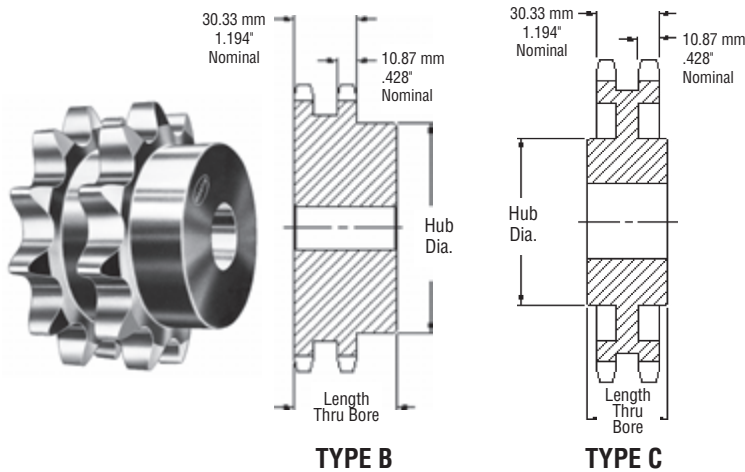
No. Teeth	Pitch Diameter MM	Catalog Number	Bushing Number	Bore Max. MM	Dimension		Weight Approx.	
					L MM	C MM	Rim (kg)	Bushing (kg)
11	67.62	12BTB11H	1008	25.40	22.23	46.04	0.27	0.14
12	73.61	12BTB12H	1008	25.40	22.23	49.21	0.36	0.14
13	79.60	12BTB13H	1210	31.75	25.40	62.69	0.41	0.27
14	85.61	12BTB14H	1210	31.75	25.40	62.69	0.45	0.27
15	91.63	12BTB15H	1610	41.28	25.40	70.64	0.54	0.41
16	97.65	12BTB16H	1610	41.28	25.40	76.20	0.73	0.41
17	103.67	12BTB17H	1610	41.28	25.40	82.55	0.82	0.41
18	109.70	12BTB18H	1610	41.28	25.40	82.55	0.91	0.41
19	115.74	12BTB19H	1610	41.28	25.40	82.55	1.00	0.41
20	121.78	12BTB20H	2012	50.80	31.75	90.47	1.00	0.77
21	127.82	12BTB21H	2012	50.80	31.75	90.47	1.18	0.77
22	133.86	12BTB22H	2012	50.80	31.75	90.47	1.27	0.77
23	139.90	12BTB23H	2012	50.80	31.75	90.47	1.27	0.77
24	145.95	12BTB24H	2012	50.80	31.75	90.47	1.50	0.77
25	151.99	12BTB25H	2012	50.80	31.75	90.47	1.74	0.77
26	158.04	12BTB26H	2012	50.80	31.75	90.47	1.74	0.77
27	164.09	12BTB27H	2012	50.80	31.75	90.47	1.80	0.77
28	170.14	12BTB28H	2012	50.80	31.75	90.47	2.04	0.77
30	182.25	12BTB30H	2012	50.80	31.75	90.47	2.32	0.77
32	194.35	12BTB32	2012	50.80	31.75	90.47	2.48	0.77
35	212.52	12BTB35	2012	50.80	31.75	90.47	2.71	0.77
36	218.57	12BTB36	2012	50.80	31.75	90.47	2.78	0.77
38	230.69	12BTB38	2012	50.80	31.75	90.47	3.36	0.77
40	242.80	12BTB40	2012	50.80	31.75	90.47	3.53	0.77
42	254.92	12BTB42	2012	50.80	31.75	90.47	3.71	0.77
45	273.09	12BTB45	2012	50.80	31.75	90.47	3.98	0.77
48	291.27	12BTB48	2012	50.80	31.75	90.47	4.24	0.77
54	327.63	12BTB54	2517	63.50	44.45	107.95	8.30	1.59
57	345.81	12BTB57	2517	63.50	44.45	107.95	8.76	1.59
60	363.99	12BTB60	2517	63.50	44.45	107.95	9.22	1.59
68	412.49	12BTB68	2517	63.50	44.45	107.95	10.45	1.59
70	424.61	12BTB70	2517	63.50	44.45	107.95	10.76	1.59
72	436.73	12BTB72	2517	63.50	44.45	107.95	11.06	1.59
76	460.98	12BTB76	2517	63.50	44.45	107.95	11.68	1.59
84	509.48	12BTB84	2517	63.50	44.45	107.95	12.91	1.59
95	576.17	12BTB95	2517	63.50	44.45	107.95	14.60	1.59
96	582.23	12BTB96	2517	63.50	44.45	107.95	14.75	1.59
114	691.36	12BTB114	2517	63.50	44.45	107.95	17.52	1.59

Sprockets with "H" suffix have hardened teeth.

0.750 INCH (19.05 mm) PITCH DUPLEX

CHAIN DATA:

BS 228/13
 ISO 12B-2
 PITCH: 19.05 mm (0.750")
 ROLLER DIAMETER: 12.07 mm (0.475")
 ROLLER WIDTH: 11.68 mm (0.460")
 TENSILE: 5,900 kilos (13,000 lbs.)



Duplex - Type B/C — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight Approx. (kg)
			Stock MM	Max. MM	Dia. MM	Thru MM	
11	67.62	D12B11	16	32	47	50	1.00
12	73.60	D12B12	16	36	53	50	1.23
13	79.60	D12B13	16	38	59	50	1.41
14	85.61	D12B14	16	42	65	50	1.68
15	91.63	D12B15	16	45	71	50	1.95
16	97.65	D12B16	20	51	77	50	2.27
17	103.67	D12B17	20	54	83	50	2.63
18	109.70	D12B18	20	60	89	50	3.18
19	115.74	D12B19	20	62	95	50	3.50
20	121.78	D12B20	20	64	100	50	3.72
21	127.82	D12B21	20	64	100	50	4.31
22	133.86	D12B22	20	64	100	50	4.77
23	139.90	D12B23	20	73	110	50	4.99
24	145.95	D12B24	20	73	110	50	5.45
25	151.99	D12B25	20	80	120	50	5.67
26	158.04	D12B26	20	80	120	50	6.13
27	164.09	D12B27	20	80	120	50	6.49
28	170.14	D12B28	20	80	120	50	6.81
29	176.19	D12B29	20	80	120	50	7.13
30	182.25	D12B30	20	80	120	50	7.49
32	194.35	D12B32	20	85	130	50	9.31
35	212.52	D12B35	20	85	130	50	10.18
36	218.57	D12B36	25	85	130	50	12.31
38	230.69	D12B38	25	85	130	50	12.99
40	242.80	D12B40	25	85	130	50	13.67
45	273.09	D12B45	25	85	130	50	15.38
48	291.27	D12B48	25	85	130	50	16.41
57	345.81	D12B57	32	85	130	65	25.34
60	363.99	D12B60	32	85	130	65	26.67
68	412.49	D12C68	32	85	130	75	30.48
76	460.98	D12C76	40	85	130	75	25.63
80	485.23	D12C80	40	85	130	75	26.98
95	576.17	D12C95	40	93	140	85	39.24
96	582.23	D12C96	40	93	140	85	39.65
114	691.36	D12C114	40	93	140	85	41.86

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

ISO 12B-2

METRIC 60-2

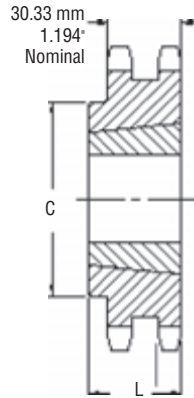
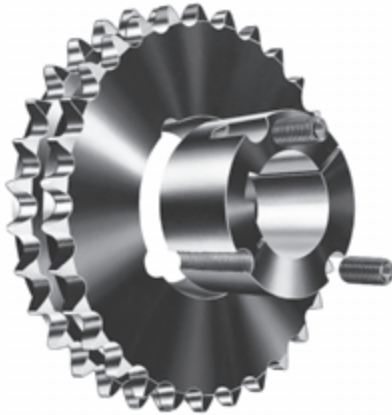
Metric Sprockets



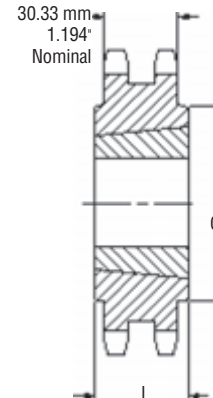
CHAIN DATA:

BS 228/13
 ISO 12B-2
 PITCH: 19.05 mm (0.750")
 ROLLER DIAMETER: 12.07 mm (0.475")
 ROLLER WIDTH: 11.68 mm (0.460")
 TENSILE: 5,900 kilos (13000 lbs.)

0.750 INCH (19.05 mm) PITCH DUPLEX



TYPE B



TYPE C

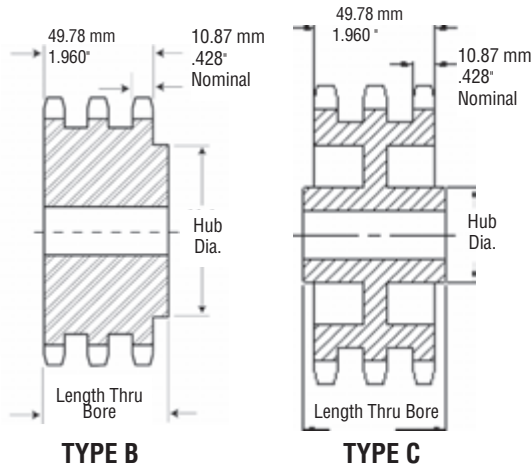
Duplex - Taper Bushed — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bushing Number	Bore Max. MM	Dimension		Weight Approx.	
					L MM	C MM	Rim (kg)	Bushing (kg)
12	73.60	D12BTB12	1215	31.75	38.10	53.54	0.61	0.73
13	79.60	D12BTB13	1215	31.75	38.10	59.74	0.66	0.77
14	85.61	D12BTB14	1215	31.75	38.10	65.91	0.84	0.82
15	91.63	D12BTB15	1615	41.28	38.10	72.09	0.70	0.77
16	97.65	D12BTB16	1615	41.28	38.10	76.20	1.11	0.77
17	103.67	D12BTB17	1615	41.28	38.10	82.93	1.25	0.77
18	109.70	D12BTB18	2012	50.80	31.75	90.50	1.56	0.77
19	115.74	D12BTB19	2012	50.80	31.75	96.6	1.81	0.77
20	121.78	D12BTB20	2517	63.50	44.45	102.00	2.04	1.59
21	127.82	D12BTB21	2517	63.50	44.45	107.95	2.50	1.59
22	133.86	D12BTB22	2517	63.50	44.45	107.95	2.78	1.59
23	139.90	D12BTB23	2517	63.50	44.45	107.95	3.07	1.59
24	145.95	D12BTB24	2517	63.50	44.45	107.95	3.35	1.59
25	151.99	D12BTB25	2517	63.50	44.45	107.95	3.63	1.59
26	158.04	D12BTB26	2517	63.50	44.45	107.95	3.91	1.59
27	164.09	D12BTB27	2517	63.50	44.45	107.95	4.20	1.59
28	170.14	D12BTB28	2517	63.50	44.45	107.95	4.48	1.59
30	182.25	D12BTB30	2517	63.50	44.45	107.95	5.04	1.59
32	194.35	D12BTB32	2517	63.50	44.45	107.95	5.61	1.59
35	212.52	D12BTB35	2517	63.50	44.45	107.95	6.46	1.59
38	230.69	D12CTB38	2517	63.50	44.45	107.95	8.40	1.59
40	242.80	D12CTB40	2517	63.50	44.45	107.95	9.56	1.59
42	254.92	D12CTB42	2517	63.50	44.45	107.95	10.73	1.59
45	273.09	D12CTB45	2517	63.50	44.45	107.95	12.48	1.59
48	291.27	D12CTB48	2517	63.50	44.45	107.95	14.23	1.59
54	327.63	D12CTB54	2517	63.50	44.45	107.95	17.73	1.59
57	345.81	D12CTB57	2517	63.50	44.45	107.95	19.48	1.59
60	363.99	D12CTB60	2517	63.50	44.45	107.95	21.23	1.59
65	394.30	D12CTB65	2517	63.50	44.45	107.95	24.15	1.59
70	424.61	D12CTB70	2517	63.50	44.45	107.95	27.06	1.59
75	454.92	D12CTB75	3020	76.20	50.80	133.35	19.27	2.95
76	460.98	D12CTB76	3020	76.20	50.80	133.35	19.52	2.95
84	509.48	D12CTB84	3020	76.20	50.80	133.35	21.58	2.95
95	576.17	D12CTB95	3020	76.20	50.80	133.35	24.40	2.95
96	582.23	D12CTB96	3020	76.20	50.80	133.35	24.66	2.95
114	691.36	D12CTB114	3020	76.20	50.80	133.35	29.28	2.95

0.750 INCH (19.05 mm) PITCH TRIPLEX

CHAIN DATA:

BS 228/13
 ISO 12B-3
 PITCH: 19.05 mm (0.750")
 ROLLER DIAMETER: 12.07 mm (0.475")
 ROLLER WIDTH: 11.68 mm (0.460")
 TENSILE: 8,850 kilos (19,500 lbs.)



Triplex - Type B/C — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight Approx. (kg)
			Stock MM	Max. MM	Dia. MM	Thru MM	
11	67.62	E12B11	20	32	47	70	1.13
12	73.60	E12B12	20	36	53	70	1.50
13	79.60	E12B13	20	38	59	70	1.77
14	85.61	E12B14	20	42	65	70	2.04
15	91.63	E12B15	20	45	71	70	2.45
16	97.65	E12B16	20	51	77	70	2.95
17	103.67	E12B17	20	54	83	70	3.49
18	109.70	E12B18	20	60	89	70	3.86
19	115.74	E12B19	20	62	95	70	4.54
20	121.78	E12B20	20	64	100	70	5.08
21	127.82	E12B21	20	64	100	70	5.67
22	133.86	E12B22	20	64	100	70	5.99
23	139.90	E12B23	20	73	110	70	6.62
24	145.95	E12B24	20	73	110	70	7.17
25	151.99	E12B25	20	80	120	70	7.71
26	158.04	E12B26	20	80	120	70	8.44
27	164.09	E12B27	20	80	120	70	8.99
28	170.14	E12B28	20	80	120	70	9.49
29	176.19	E12B29	20	80	120	70	9.99
30	182.25	E12B30	20	80	120	70	10.53
35	212.52	E12B35	25	85	130	70	18.95
36	218.57	E12B36	25	85	130	70	19.49
38	230.69	E12B38	25	85	130	70	20.57
45	273.10	E12B45	25	85	130	70	24.36
48	291.27	E12B48	25	85	130	70	25.98
57	345.81	E12C57	32	82	130	85	33.73
60	363.99	E12C60	32	82	130	85	35.51
68	412.49	E12C68	32	82	130	85	40.24
76	460.98	E12C76	40	95	140	85	37.19
80	485.23	E12C80	40	95	140	85	39.15
95	576.17	E12C95	40	95	140	100	47.63

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

ISO 16B-1

METRIC 80

Metric Sprockets



CHAIN DATA:

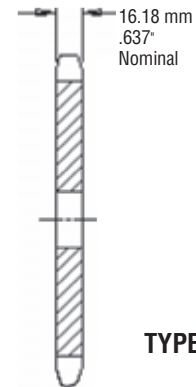
BS 228/15
ISO 16B-1
PITCH: 25.40 mm (1.00")
ROLLER DIAMETER: 15.88 mm (0.625")
ROLLER WIDTH: 17.02 mm (0.670")
TENSILE: 4,310 kilos (9,500 lbs.)

1.00 INCH (25.40 mm) PITCH SIMPLEX

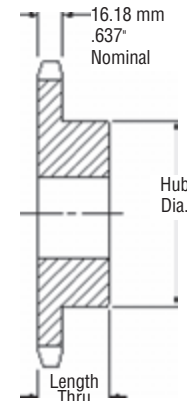
Simplex - Type B/C — Steel

Simplex - Type A — Steel

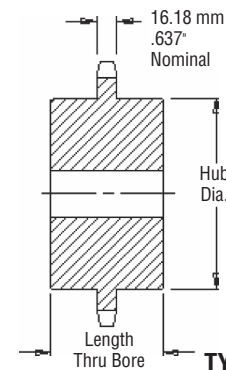
No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight Approx. (kg)	Catalog Number	Bore Stock MM	Weight Approx. (kg)
			Stock MM	Max. MM	Dia. MM	Thru MM				
11	90.16	16B11	16	41	63	40	1.45	16A11	14	0.82
12	98.14	16B12	16	47	72	40	1.82	16A12	14	0.91
13	106.14	16B13	16	52	79	40	1.82	16A13	14	1.04
14	114.15	16B14	16	60	88	40	2.09	16A14	14	1.22
15	122.17	16B15	16	62	96	40	2.59	16A15	14	1.36
16	130.20	16B16	20	67	100	45	3.00	16A16	14	1.54
17	138.23	16B17	25	67	102	45	3.18	16A17	14	1.81
18	146.27	16B18	25	70	108	45	3.77	16A18	24	2.00
19	154.32	16B19	25	70	108	45	3.86	16A19	24	2.13
20	162.37	16B20	25	70	108	45	4.09	16A20	24	2.49
21	170.42	16B21	25	70	108	50	4.54	16A21	24	2.63
22	178.48	16B22	25	70	108	50	4.99	16A22	24	2.82
23	186.56	16B23	25	70	108	50	5.08	16A23	24	3.04
24	194.60	16B24	25	70	108	50	5.54	16A24	24	3.45
25	202.66	16B25	25	70	108	50	5.76	16A25	24	3.63
26	210.72	16B26	32	80	120	50	7.03	16A26	30	3.90
27	218.79	16B27	32	80	120	50	7.53	16A27	30	4.31
28	226.86	16B28	32	80	120	50	7.58	16A28	30	4.58
29	234.93	16B29	32	80	120	50	7.94	16A29	30	4.81
30	243.00	16B30	32	80	120	50	8.26	16A30	32	5.22
31	251.07	16B31	32	80	120	50	8.62	16A31	32	5.56
32	259.14	16B32	32	80	120	50	8.98	16A32	32	5.90
33	267.21	16B33	32	80	120	50	9.33	16A33	32	6.24
34	275.28	16B34	32	80	120	50	9.69	16A34	32	6.58
35	283.36	16B35	32	80	120	50	10.05	16A35	32	6.92
36	291.43	16B36	32	80	120	50	10.41	16A36	32	7.26
37	299.51	16B37	32	80	120	50	10.76	16A37	32	7.60
38	307.58	16B38	32	80	120	50	11.12	16A38	32	7.94
39	315.66	16B39	32	80	120	50	11.48	16A39	32	8.48
40	323.74	16B40	32	80	120	50	11.83	16A40	32	9.01
41	331.81	16B41	32	80	120	50	12.19	16A41	32	9.55
42	339.89	16B42	32	80	120	50	12.55	16A42	32	10.09
43	347.97	16B43	32	80	120	50	12.91	16A43	32	10.62
44	356.05	16B44	32	80	120	50	13.27	16A44	32	11.16
45	364.12	16B45	32	80	120	50	13.62	16A45	32	11.70
46	372.20	16B46	32	80	120	50	13.98	16A46	32	12.23
47	380.28	16B47	32	80	120	50	14.34	16A47	32	12.77
48	388.36	16B48	32	80	120	50	14.70	16A48	32	12.31
49	396.44	16B49	32	80	120	50	15.05	16A49	32	13.85
50	404.52	16B50	32	80	120	50	15.41	16A50	32	14.38
54	436.84	16B54	32	85	130	50	20.99	16A54	32	16.53
57	461.08	16B57	32	85	130	50	22.16	16A57	32	18.14
60	485.33	16B60	32	85	130	50	23.33	16A60	32	19.75
65	525.73	16B65	32	85	130	50	25.27	16A65	32	22.43
70	566.15	16C70	40	108	159	90	33.59	16A70	40	25.47
72	582.31	16C72	40	108	159	90	35.48	16A72	40	27.94
76	614.64	16C76	40	108	159	90	39.24	16A76	40	32.89
80	646.97	16C80	40	108	159	90	43.00	16A80	40	37.84
84	679.30	16C84	40	108	159	90	46.77	16A84	40	42.78
90	727.80	16C90	40	108	159	90	52.41	16A90	40	50.21
95	768.22	16C95	40	108	159	90	57.12	16A95	40	56.39
96	766.31	16C96	40	108	159	90	58.06	16A96	40	57.63
114	921.81	16C114	40	108	159	90	75.00	16A114	40	76.36



TYPE A



TYPE B

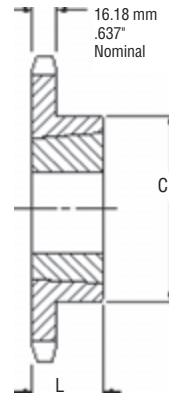
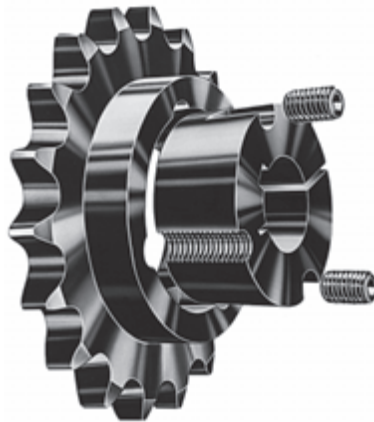


TYPE C

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

1.00 INCH (25.40 mm) PITCH **SIMPLEX**

CHAIN DATA:
 BS 228/15
 ISO 16B-1
 PITCH: 25.40 mm (1.00")
 ROLLER DIAMETER: 15.88 mm (0.625")
 ROLLER WIDTH: 17.02 mm (0.670")
 TENSILE: 4,310 KILOS (9,500 lbs.)



TYPE B

Simplex - Taper Bushed — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bushing Number	Bore Max. MM	Dimension		Weight Approx.	
					L MM	C MM	Rim (kg)	Bushing (kg)
10	82.20	16BTB10H	1215	31.75	38.10	62.69	0.73	0.36
11	90.16	16BTB11H	1215	31.75	38.10	62.69	0.91	0.36
12	98.14	16BTB12H	1615	41.28	38.10	76.20	1.04	0.54
13	106.14	16BTB13H	1615	41.28	38.10	76.20	1.27	0.54
14	114.15	16BTB14H	1615	41.28	38.10	82.55	1.36	0.54
15	122.17	16BTB15H	1615	41.28	38.10	82.55	1.45	0.54
16	130.20	16BTB16H	2012	50.80	31.75	90.47	1.55	0.77
17	138.23	16BTB17H	2012	50.80	31.75	90.47	1.69	0.77
18	146.27	16BTB18H	2012	50.80	31.75	90.47	1.46	0.77
19	154.32	16BTB19H	2012	50.80	31.75	90.47	2.14	0.77
20	162.37	16BTB20H	2517	63.50	44.45	107.95	2.72	1.59
21	170.42	16BTB21H	2517	63.50	44.45	107.95	2.95	1.59
22	178.48	16BTB22H	2517	63.50	44.45	107.95	3.18	1.59
23	186.54	16BTB23H	2517	63.50	44.45	107.95	3.40	1.59
24	194.60	16BTB24H	2517	63.50	44.45	107.95	3.63	1.59
25	202.66	16BTB25H	2517	63.50	44.45	107.95	3.90	1.59
26	210.72	16BTB26H	2517	63.50	44.45	107.95	4.22	1.59
27	218.79	16BTB27H	2517	63.50	44.45	107.95	4.31	1.59
28	226.86	16BTB28H	2517	63.50	44.45	107.95	4.54	1.59
30	243.00	16BTB30H	2517	63.50	44.45	107.95	5.44	1.59
32	259.14	16BTB32	2517	63.50	44.45	107.95	5.67	1.59
35	283.36	16BTB35	2517	63.50	44.45	107.95	7.12	1.59
36	291.43	16BTB36	2517	63.50	44.45	107.95	7.94	1.59
38	307.58	16BTB38	2517	63.50	44.45	107.95	8.85	1.59
40	323.74	16BTB40	2517	63.50	44.45	107.95	9.75	1.59
45	364.12	16BTB45	2517	63.50	44.45	107.95	12.25	1.59
48	388.36	16BTB48	2517	63.50	44.45	107.95	13.61	1.59
54	436.84	16BTB54	2517	63.50	44.45	107.95	17.69	1.59
57	461.07	16BTB57	2517	63.50	44.45	107.95	19.16	1.59
60	485.33	16BTB60	2517	63.50	44.45	107.95	20.64	1.59
64	517.65	16BTB64	3020	76.20	50.80	133.35	19.35	2.95
70	566.15	16BTB70	3020	76.20	50.80	133.35	23.95	2.95
76	614.64	16BTB76	3020	76.20	50.80	133.35	28.55	2.95
80	646.97	16BTB80	3020	76.20	50.80	133.35	31.62	2.95
84	679.30	16BTB84	3020	76.20	50.80	133.35	34.68	2.95
95	768.22	16BTB95	3020	76.20	50.80	133.35	41.58	2.95
114	921.81	16BTB114	3020	76.20	50.80	133.35	56.15	2.95

Sprockets with "H" suffix have hardened teeth.

ISO 16B-2

METRIC 80-2

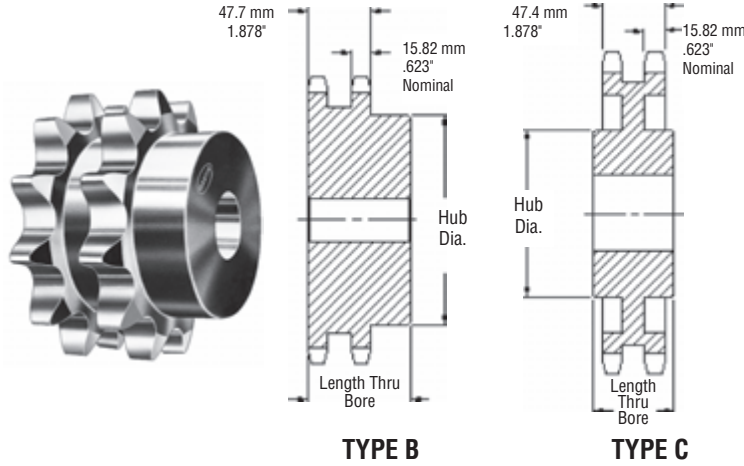
Metric Sprockets



CHAIN DATA:

BS 228/15
 ISO 16B-2
 PITCH: 25.40 mm (1.00")
 ROLLER DIAMETER: 15.88 mm (0.625")
 ROLLER WIDTH: 17.02 mm (0.670")
 TENSILE: 8,620 kilos (19,000 lbs.)

1.00 INCH (25.40 mm) PITCH DUPLEX



Duplex - Type B/C — Steel

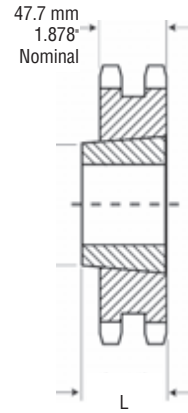
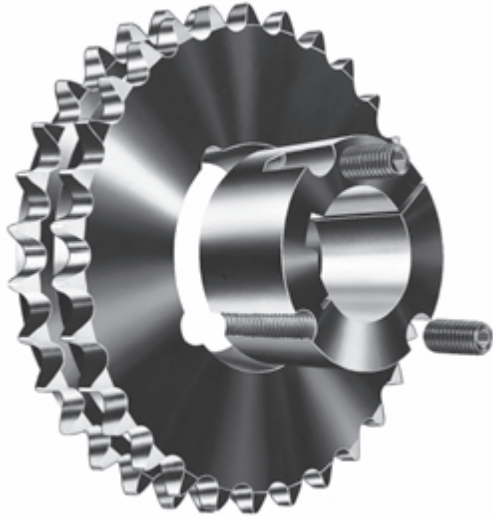
No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight Approx. (kg)
			Stock MM	Max. MM	Dia. MM	Thru MM	
11	90.16	D16B11	20	42	63	70	1.82
12	98.14	D16B12	20	45	72	70	2.36
13	106.14	D16B13	20	52	80	70	2.95
14	114.15	D16B14	20	53	88	70	3.50
15	122.17	D16B15	20	62	96	70	4.18
16	130.20	D16B16	20	66	104	70	5.22
17	138.23	D16B17	20	74	112	70	5.99
18	146.27	D16B18	20	80	120	70	6.81
19	154.32	D16B19	20	84	128	70	7.71
20	162.37	D16B20	20	85	130	70	8.26
21	170.42	D16B21	25	85	130	70	8.85
22	178.28	D16B22	25	85	130	70	9.53
23	186.54	D16B23	25	85	130	70	10.43
24	194.60	D16B24	25	85	130	70	11.44
25	202.66	D16B25	25	85	130	70	12.47
26	210.72	D16B26	25	85	130	70	13.62
27	218.79	D16B27	25	85	130	70	14.75
28	226.86	D16B28	25	85	130	70	15.89
29	234.93	D16B29	25	85	130	70	17.02
30	243.00	D16B30	25	95	145	75	18.16
32	259.14	D16B32	32	95	145	75	19.86
35	283.36	D16B35	32	95	145	75	22.27
36	291.43	D16B36	32	95	145	80	28.04
38	307.58	D16B38	32	95	145	80	29.60
42	339.89	D16B42	40	95	145	80	32.20
45	364.12	D16C45	40	95	145	95	34.35
57	461.07	D16C57	40	95	145	95	38.18
60	485.33	D16C60	40	95	145	95	42.77
68	549.98	D16C68	40	96	153	102	43.86
76	614.64	D16C76	40	96	152	102	68.11
80	646.97	D16C80	40	102	152	108	54.88
95	768.22	D16C95	40	102	152	108	72.57
114	921.81	D16C114	40	102	152	108	78.22

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

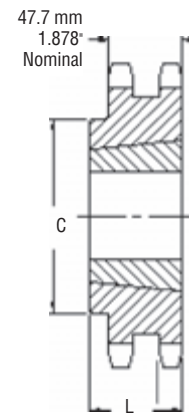
1.00 INCH (25.40 mm) PITCH DUPLEX

CHAIN DATA:

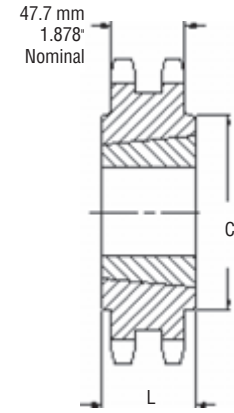
BS 228/15
 ISO 16B-2
 PITCH: 25.40 mm (1.00")
 ROLLER DIAMETER: 15.88 mm (0.625")
 ROLLER WIDTH: 17.02 mm (0.670")
 TENSILE: 8,620 kilos (19,000 lbs.)



TYPE A



TYPE B



TYPE C

Duplex - Taper Bushed — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bushing Number	Bore Max. MM	Dimension		Weight Approx.	
					L MM	C MM	Rim (kg)	Bushing (kg)
13	106.14	D16ATB13	1615	41.28	38.10	—	1.54	0.77
14	114.15	D16ATB14	2012	50.80	31.75	—	1.68	0.77
15	122.17	D16ATB15	2012	50.80	31.75	—	2.04	0.77
16	130.20	D16ATB16	2012	50.80	31.75	—	2.27	0.77
17	138.23	D16ATB17	2517	63.50	44.45	—	2.50	1.59
18	146.27	D16ATB18	2517	63.50	44.45	—	2.64	1.59
19	154.32	D16BTB19	3020	76.20	50.80	127.00	3.18	2.95
20	162.37	D16BTB20	3020	76.20	50.80	133.35	3.45	2.95
21	170.42	D16BTB21	3020	76.20	50.80	141.28	4.09	2.95
22	178.48	D16BTB22	3020	76.20	50.80	149.23	4.73	2.95
23	186.54	D16BTB23	3020	76.20	50.80	158.34	5.48	2.95
24	194.60	D16BTB24	3020	76.20	50.80	166.68	6.34	2.95
25	202.66	D16BTB25	3020	76.20	50.80	174.63	7.72	2.95
26	210.72	D16BTB26	3020	76.20	50.80	182.56	8.36	2.95
27	218.79	D16BTB27	3020	76.20	50.80	133.35	10.22	2.95
28	226.86	D16BTB28	3020	76.20	50.80	133.35	10.59	2.95
30	243.00	D16CTB30	3020	76.20	50.80	133.35	11.35	2.95
35	283.36	D16CTB35	3020	76.20	50.80	133.35	17.88	2.95
38	307.58	D16CTB38	3020	76.20	50.80	133.35	21.79	2.95
42	339.89	D16CTB42	3020	76.20	50.80	133.35	22.94	2.95
45	364.12	D16CTB45	3020	76.20	50.80	133.35	23.80	2.95
57	461.08	D16CTB57	3020	76.20	50.80	133.35	27.24	2.95
76	614.64	D16CTB76	3020	76.20	50.80	133.35	37.68	2.95
95	768.22	D16CTB95	3020	76.20	50.80	133.35	43.13	2.95
114	921.81	D16CTB114	3020	76.20	50.80	133.35	48.58	2.95

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

ISO 16B-3

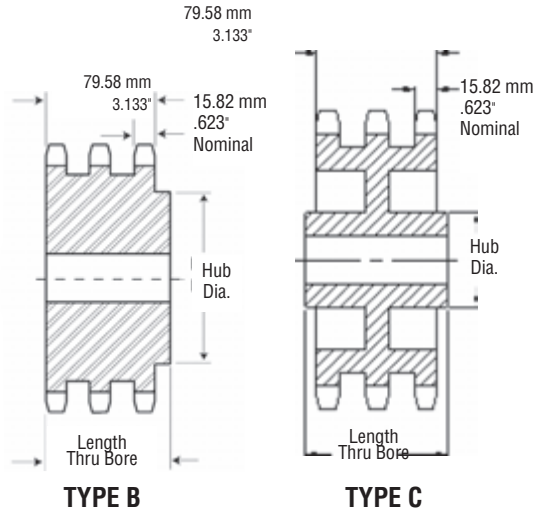
METRIC 80-3

Metric Sprockets

CHAIN DATA:

BS 228/15
 ISO 16B-3
 PITCH: 25.40 mm (1.00")
 ROLLER DIAMETER: 15.88 mm (0.625")
 ROLLER WIDTH: 17.02 mm (0.670")
 TENSILE: 12,930 kilos (28,500 lbs.)

1.00 INCH (25.40 mm) PITCH TRIPLEX



Triplex - Type B/C — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight Approx. (kg)
			Stock MM	Max. MM	Dia. MM	Thru MM	
11	90.16	E16B11	25	42	63	100	2.72
12	98.14	E16B12	25	45	72	100	3.59
13	106.14	E16B13	25	52	80	100	4.13
14	114.15	E16B14	25	58	88	100	4.68
15	122.17	E16B15	25	62	96	100	5.54
16	130.20	E16B16	30	66	104	100	6.81
17	138.23	E16B17	30	74	112	100	8.07
18	146.27	E16B18	30	80	120	100	9.99
19	154.32	E16B19	30	84	128	100	10.89
20	162.37	E16B20	30	85	130	100	11.80
21	170.42	E16B21	30	85	130	100	13.61
22	178.48	E16B22	30	85	130	100	14.07
23	186.54	E16B23	30	85	130	100	14.97
24	194.60	E16B24	30	85	130	100	16.34
25	202.66	E16B25	30	85	130	100	17.70
26	210.72	E16B26	30	85	130	100	19.98
27	218.79	E16B27	30	85	130	100	21.57
28	226.86	E16B28	30	85	130	100	23.15
29	234.93	E16B29	30	85	130	100	24.74
30	243.00	E16B30	32	95	140	105	26.33
35	283.36	E16B35	32	95	140	105	36.06
36	291.43	E16B36	32	95	140	105	38.06
38	307.58	E16C38	32	97	152	114	41.45
42	339.89	E16C42	40	97	152	114	38.51
45	364.12	E16C45	40	97	152	114	41.91
57	461.08	E16C57	40	107	159	120	51.35
60	485.33	E16C60	40	107	159	120	58.06
68	549.98	E16C68	40	107	159	120	63.50
76	614.64	E16C76	40	107	159	120	77.11
95	768.22	E16C95	40	114	171	127	100.70
114	921.81	E16C114	40	114	171	127	120.84

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

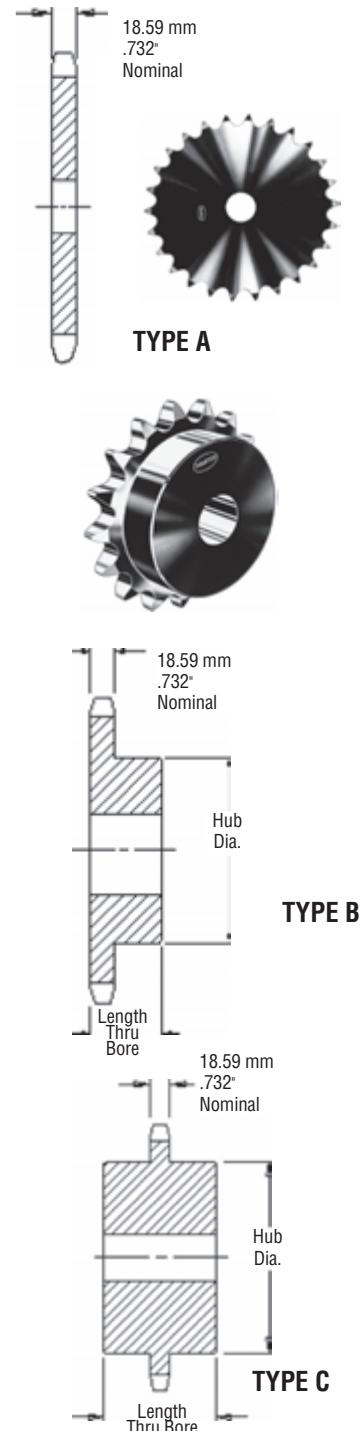
1.25 INCH (31.75 mm) PITCH SIMPLEX

Simplex - Type B/C — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight Approx. (kg)	Catalog Number	Bore Stock MM	Weight Approx. (kg)
			Stock MM	Max. MM	Dia. MM	Thru MM				
8	82.97	20B8	25	57	48	48	1.04	20A8	25	0.63
9	92.83	20B9	25	57	58	48	1.45	20A9	25	0.95
10	102.75	20B10	25	60	69	48	1.86	20A10	25	1.27
11	112.70	20B11	25	70	79	48	2.40	20A11	25	1.59
12	122.67	20B12	25	76	90	48	2.95	20A12	25	1.91
13	132.67	20B13	25	76	98	41	3.00	20A13	25	2.18
14	142.68	20B14	25	76	106	41	3.40	20A14	25	2.49
15	152.71	20B15	25	76	114	44	4.31	20A15	25	2.68
16	162.75	20B16	25	76	114	44	4.63	20A16	24	3.08
17	172.79	20B17	32	76	114	44	4.99	20A17	24	3.54
18	182.84	20B18	32	76	114	44	5.44	20A18	30	3.81
19	192.90	20B19	32	76	114	51	5.90	20A19	30	4.31
20	202.96	20B20	32	76	114	51	6.35	20A20	30	4.58
21	213.03	20B21	32	76	114	51	7.03	20A21	32	5.17
22	223.10	20B22	32	76	114	51	7.71	20A22	32	5.72
23	233.17	20B23	32	84	114	51	8.16	20A23	32	5.99
24	243.25	20B24	32	84	114	51	8.62	20A24	32	6.62
25	253.32	20B25	32	84	114	51	9.07	20A25	32	6.94
26	263.41	20B26	32	84	127	51	9.53	20A26	32	7.62
27	273.49	20B27	32	84	127	51	10.43	20A27	32	8.35
28	283.57	20B28	32	84	127	51	11.34	20A28	32	8.85
29	293.66	20B29	32	84	127	51	11.76	20A29	32	9.43
30	303.75	20B30	32	84	127	51	12.02	20A30	32	9.98
31	313.83	20B31	32	84	127	51	12.77	20A31	32	10.73
32	323.92	20B32	32	84	127	51	13.52	20A32	32	11.49
33	334.01	20B33	32	84	127	51	14.59	20A33	32	12.24
34	344.10	20B34	32	84	127	51	15.66	20A34	32	13.00
35	354.20	20B35	32	84	127	64	16.74	20A35	32	13.75
36	364.29	20B36	32	84	127	64	17.51	20A36	32	14.50
37	374.38	20B37	32	84	127	64	18.17	20A37	32	15.25
38	384.48	20B38	32	84	127	64	18.82	20A38	32	16.01
39	394.57	20B39	32	84	127	64	19.78	20A39	32	16.76
40	404.67	20B40	32	84	127	64	21.27	20A40	32	17.52
41	414.77	20B41	32	84	127	64	22.07	20A41	32	18.27
42	424.88	20B42	32	84	127	64	22.86	20A42	32	19.03
43	434.96	20B43	32	84	127	64	23.40	20A43	32	19.78
44	445.06	20B44	32	84	127	64	23.95	20A44	32	20.53
45	455.15	20B45	32	84	127	64	24.49	20A45	32	21.29
46	465.25	20B46	32	84	127	64	26.31	20A46	32	22.04
47	475.35	20B47	32	84	127	64	28.12	20A47	32	22.79
48	485.45	20B48	40	102	152	64	29.94	20A48	32	23.55
49	495.55	20B49	40	102	152	64	31.76	20A49	32	24.30
50	505.65	20B50	40	102	152	64	33.57	20A50	32	25.06
51	515.75	20B51	40	102	152	64	35.39	20A51	40	24.43
52	525.85	20B52	40	102	152	64	37.21	20A52	40	25.85
53	535.95	20B53	40	102	152	64	39.02	20A53	40	27.27
54	546.05	20C54	40	102	152	82	32.90	20A54	40	25.70
55	556.15	20C55	40	102	152	82	34.77	20A55	40	30.12
56	566.25	20C56	40	102	152	82	36.63	20A56	40	31.34
57	576.35	20C57	40	102	152	82	38.50	20A57	40	32.96
58	586.45	20C58	40	102	152	82	40.37	20A58	40	35.80
59	596.56	20C59	40	102	152	82	42.24	20A59	40	37.22
60	606.66	20C60	40	102	152	82	44.10	20A60	40	38.64
70	707.68	20C70	40	133	178	95	65.36	20A70	40	52.85
72	727.89	20C72	40	133	178	95	67.23	20A72	40	55.70
76	768.30	20C76	40	133	178	95	70.98	20A76	40	61.38
80	808.71	20C80	40	133	178	95	74.70	20A80	40	67.06
84	849.13	20C84	40	133	178	95	78.43	20A84	40	72.75
90	909.76	20C90	40	133	178	95	84.03	20A90	40	81.27
95	960.28	20C95	40	133	178	114	117.18	20A95	40	102.42
96	970.38	20C96	40	133	178	114	117.56	20A96	40	103.84
114	1152.27	20C114	40	133	178	114	124.40	20A114	40	130.84

Simplex - Type A — Steel

CHAIN DATA:
 BS 228/17
 ISO 20B-1
 PITCH: 31.75 mm (1.250")
 ROLLER DIAMETER: 19.05 mm (0.750")
 ROLLER WIDTH: 19.56 mm (0.770")
 TENSILE: 6,580 kilos (14,500 lbs.)



Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

ISO 20B-1

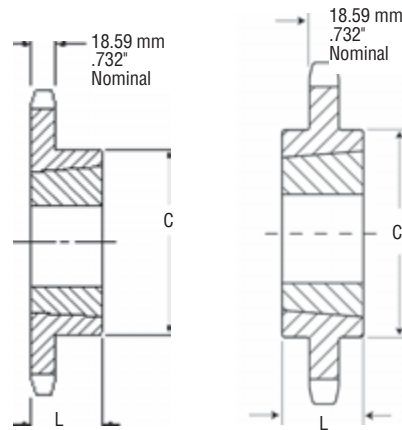
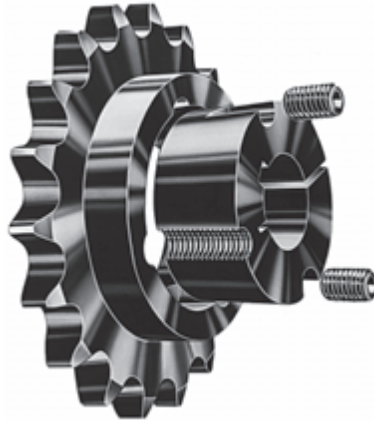
METRIC 100

Metric Sprockets

CHAIN DATA:

BS 228/17
ISO 20B1
PITCH: 31.75 mm (1.250")
ROLLER DIAMETER: 19.05 mm (0.750")
ROLLER WIDTH: 19.56 mm (0.770")
TENSILE: 6,580 kilos (14,500 lbs.)

1.25 INCH (31.75 mm) PITCH SIMPLEX



TYPE B

TYPE C

Simplex - Taper Bushed — Steel

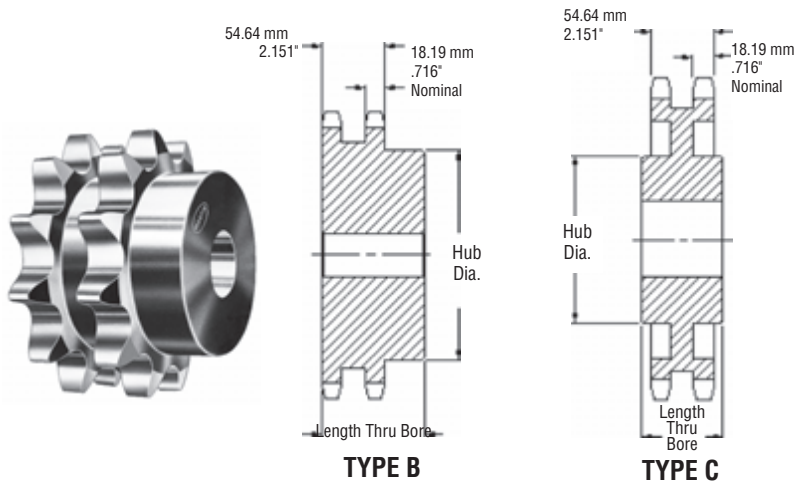
No. Teeth	Pitch Diameter MM	Catalog Number	Bushing Number	Bore Max. MM	Dimension		Weight Approx.	
					L MM	C MM	Rim (kg)	Bushing (kg)
11	112.70	20BTB11H	1615	41.28	38.10	62.69	1.22	0.54
12	122.67	20BTB12H	1615	41.28	38.10	70.64	1.41	0.54
13	132.67	20BTB13H	2012	50.80	31.75	90.47	1.45	0.77
14	142.68	20BTB14H	2012	50.80	31.75	90.47	1.63	0.77
15	152.71	20BTB15H	2517	63.50	44.45	107.95	2.31	1.59
16	162.75	20BTB16H	2517	63.50	44.45	107.95	2.72	1.59
17	172.79	20BTB17H	2517	63.50	44.45	107.95	3.27	1.59
18	182.84	20BTB18H	2517	63.50	44.45	107.95	3.63	1.59
19	192.90	20BTB19H	2517	63.50	44.45	107.95	4.09	1.59
20	202.96	20BTB20H	2517	63.50	44.45	107.95	4.40	1.59
21	213.03	20BTB21H	2517	63.50	44.45	107.95	4.54	1.59
22	223.10	20BTB22H	2517	63.50	44.45	107.95	4.77	1.59
23	233.17	20BTB23H	2517	63.50	44.45	107.95	5.58	1.59
24	243.25	20BTB24H	2517	63.50	44.45	107.95	6.13	1.59
25	253.32	20BTB25H	2517	63.50	44.45	107.95	6.95	1.59
26	263.41	20BTB26H	2517	63.50	44.45	107.95	7.35	1.59
28	283.57	20BTB28H	3020	76.20	50.80	133.35	7.90	2.95
30	303.75	20BTB30H	3020	76.20	50.80	133.35	9.62	2.95
32	323.92	20BTB32	3020	76.20	50.80	133.35	11.03	2.95
35	354.20	20BTB35	3020	76.20	50.80	133.35	13.15	2.95
36	364.29	20BTB36	3020	76.20	50.80	133.35	13.86	2.95
38	384.48	20BTB38	3020	76.20	50.80	133.35	15.98	2.95
40	404.67	20BTB40	3020	76.20	50.80	133.35	19.43	2.95
45	455.15	20BTB45	3020	76.20	50.80	133.35	25.18	2.95
48	485.45	20BTB48	3020	76.20	50.80	133.35	28.62	2.95
54	546.05	20BTB54	3020	76.20	50.80	133.35	35.52	2.95
57	576.35	20BTB57	3020	76.20	50.80	133.35	37.82	2.95
60	606.66	20BTB60	3020	76.20	50.80	133.35	41.27	2.95
70	707.68	20CTB70	3535	88.90	88.90	171.45	51.56	6.35
72	727.89	20CTB72	3535	88.90	88.90	171.45	53.97	6.35
76	768.30	20CTB76	3535	88.90	88.90	171.45	60.33	6.35
80	808.71	20CTB80	3535	88.90	88.90	171.45	66.23	6.35
84	849.13	20CTB84	3535	88.90	88.90	171.45	73.48	6.35
90	909.76	20CTB90	3535	88.90	88.90	171.45	94.33	6.35
95	960.28	20CTB95	3535	88.90	88.90	171.45	96.16	6.35

Sprockets with "H" suffix have hardened teeth.

1.25 INCH (31.75 mm) PITCH DUPLEX

CHAIN DATA:

BS 228/17
 ISO 20B-2
 PITCH: 31.75 mm (1.250")
 ROLLER DIAMETER: 19.05 mm (0.750")
 ROLLER WIDTH: 19.56 mm (0.770")
 TENSILE: 13,160 kilos (29,000 lbs.)



Duplex - Type B/C — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight Approx. (kg)
			Stock MM	Max. MM	Dia. MM	Thru MM	
10	102.75	D20B10	20	45	69	75	2.90
11	112.70	D20B11	20	52	79	80	3.67
12	122.67	D20B12	20	60	90	80	4.31
13	132.67	D20B13	20	64	100	80	5.53
14	142.68	D20B14	20	73	110	80	6.62
15	152.71	D20B15	20	80	120	80	7.76
16	162.75	D20B16	25	80	120	80	9.12
17	172.79	D20B17	25	80	120	80	10.44
18	182.84	D20B18	25	80	120	80	11.71
19	192.90	D20B19	25	80	120	80	12.92
20	202.96	D20B20	25	80	120	80	15.43
21	213.03	D20B21	25	92	140	80	16.55
22	223.10	D20B22	25	92	140	80	17.70
23	233.17	D20B23	25	92	140	80	19.05
24	243.25	D20B24	32	96	145	80	20.43
25	253.32	D20B25	32	96	145	80	21.77
26	263.41	D20B26	32	96	145	80	23.15
27	273.49	D20B27	32	96	145	80	24.97
28	283.57	D20B28	32	96	145	80	26.78
30	303.75	D20B30	32	96	145	80	30.41
32	323.92	D20B32	32	96	145	80	32.22
35	354.20	D20C35	32	100	152	108	34.02
36	364.29	D20C36	32	100	152	108	34.70
38	384.48	D20C38	32	100	152	114	43.72
42	424.86	D20C42	40	100	152	114	43.55
45	455.15	D20C45	40	100	152	114	46.72
57	576.35	D20C57	40	100	191	127	64.10
60	606.66	D20C60	40	125	191	127	79.38
68	687.48	D20C68	40	125	191	127	87.74
76	768.30	D20C76	40	125	191	127	96.11
80	808.71	D20C80	40	125	191	127	100.30
95	960.28	D20C95	40	125	191	127	115.98
114	1152.26	D20C114	40	125	191	127	135.85

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

ISO 20B-3

METRIC 100-3

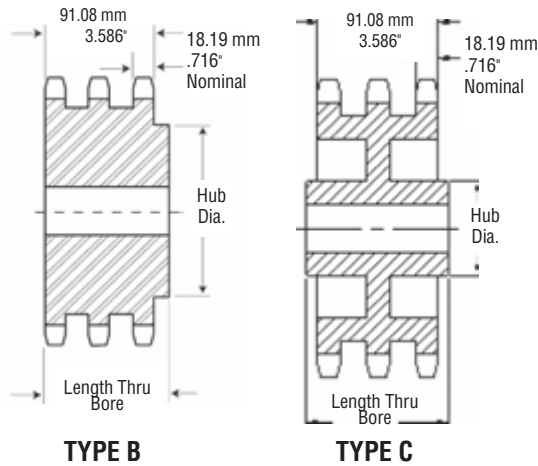
Metric Sprockets



CHAIN DATA:

BS 228/17
 ISO 20B-3
 PITCH: 31.75 mm (1.250")
 ROLLER DIAMETER: 19.05 mm (0.750")
 ROLLER WIDTH: 19.56 mm (0.770")
 TENSILE: 19,740 kilos (43,500 lbs.)

1.25 INCH (31.75 mm) PITCH TRIPLEX



Triplex - Type B/C — Steel

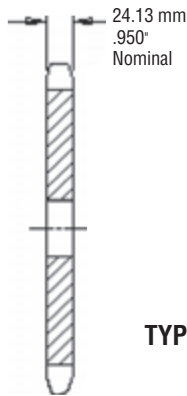
No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight Approx. (kg)
			Stock MM	Max. MM	Dia. MM	Thru MM	
10	102.75	E20B10	25	47	69	110	3.95
11	112.70	E20B11	25	52	79	115	5.26
12	122.67	E20B12	25	60	90	115	6.21
13	132.67	E20B13	25	64	100	115	9.26
14	142.68	E20B14	25	73	110	115	9.76
15	152.71	E20B15	25	80	120	115	10.81
16	162.75	E20B16	25	80	120	115	12.76
17	172.79	E20B17	25	80	120	115	14.76
18	182.84	E20B18	25	80	120	115	16.71
19	192.90	E20B19	25	80	120	115	19.13
20	202.96	E20B20	25	80	120	115	21.57
21	213.03	E20B21	25	92	140	115	23.36
22	223.10	E20B22	25	92	140	115	25.65
23	233.17	E20B23	25	92	140	115	27.90
24	243.25	E20B24	32	95	145	120	27.19
25	253.32	E20B25	32	95	145	120	27.90
26	263.41	E20B26	32	95	145	120	31.90
27	273.49	E20B27	32	95	145	120	35.90
28	283.57	E20B28	32	95	145	120	39.90
30	303.75	E20B30	32	95	145	120	47.90
32	323.92	E20B32	32	95	145	127	51.57
35	354.20	E20C35	32	97	152	127	57.29
36	364.29	E20C36	32	97	152	127	59.35
38	384.48	E20C38	40	97	152	127	62.56
42	424.86	E20C42	40	97	152	127	70.12
45	455.15	E20C45	40	97	152	127	75.84
57	576.35	E20C57	40	102	191	127	100.11
60	606.66	E20C60	40	102	191	127	104.86
68	687.48	E20C68	40	102	191	127	117.54
76	768.30	E20C76	40	102	191	127	130.21
80	808.71	E20C80	40	102	191	127	136.55
95	960.28	E20C95	40	102	191	127	160.31
114	1152.27	E20C114	40	102	191	127	190.41

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

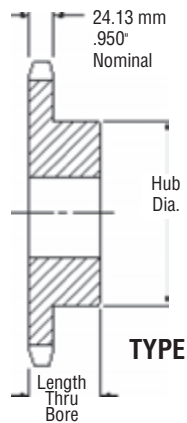
1.50 INCH (38.10 mm) PITCH **SIMPLEX**

CHAIN DATA:

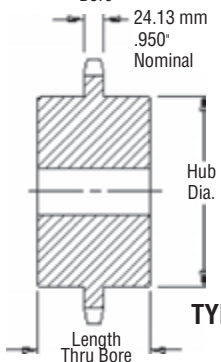
BS 228/18
 ISO 24B-1
 PITCH: 38.10 mm (1.50")
 ROLLER DIAMETER: 25.40 mm (1.00")
 ROLLER WIDTH: 25.40 mm (1.00")
 TENSILE: 9,980 kilos (22,000 lbs.)



TYPE A



TYPE B



TYPE C

Simplex - Type B/C — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight Approx. (kg)	Catalog Number	Bore Stock MM	Weight Approx. (kg)
			Stock MM	Max. MM	Dia. MM	Thru MM				
9	111.40	24B9	20	45	69	45	2.02	24A9	20	1.69
10	123.29	24B10	20	52	80	45	2.61	24A10	20	1.88
11	135.23	24B11	25	60	90	50	3.77	24A11	20	2.06
12	147.21	24B12	25	67	102	50	4.77	24A12	20	2.68
13	159.20	24B13	25	76	114	50	5.91	24A13	20	3.06
14	171.22	24B14	32	86	127	60	6.68	24A14	32	3.72
15	183.25	24B15	32	92	140	60	7.49	24A15	32	4.31
16	195.29	24B16	32	92	140	60	9.08	24A16	32	4.86
17	207.35	24B17	32	92	140	60	9.76	24A17	32	5.44
18	219.41	24B18	32	92	140	60	10.49	24A18	32	6.13
19	231.48	24B19	32	92	140	60	11.21	24A19	32	7.03
20	243.55	24B20	32	92	140	60	12.26	24A20	32	7.94
21	255.63	24B21	32	92	140	60	13.38	24A21	32	8.62
22	267.72	24B22	32	92	140	60	13.67	24A22	32	9.76
23	179.80	24B23	32	92	140	60	14.74	24A23	32	10.43
24	291.90	24B24	32	92	140	60	15.48	24A24	32	11.35
25	303.99	24B25	32	92	140	60	16.38	24A25	32	12.47
26	316.09	24B26	40	102	150	65	19.43	24A26	40	13.39
27	328.19	24B27	40	102	150	65	20.39	24A27	40	14.53
28	340.29	24B28	40	102	150	65	21.34	24A28	40	15.89
29	352.39	24B29	40	102	150	65	22.79	24A29	40	17.02
30	364.49	24B30	40	102	150	65	24.25	24A30	40	18.39
31	376.60	24B31	40	102	150	65	26.19	24A31	40	20.02
32	388.71	24B32	40	102	150	65	28.12	24A32	40	21.66
33	400.82	24B33	40	102	150	65	30.05	24A33	40	23.29
34	412.93	24B34	40	102	150	65	31.99	24A34	40	24.93
35	425.04	24B35	40	102	150	65	33.93	24A35	40	26.56
36	437.15	24B36	40	102	152	65	35.86	24A36	40	28.19
38	461.37	24B38	40	102	152	65	39.73	24A38	40	31.46
42	509.83	24C42	40	102	152	95	45.31	24A42	40	40.99
45	546.19	24C45	40	102	152	95	50.71	24A45	40	48.14
48	482.54	24C48	40	102	152	102	57.43	24A48	40	55.29
57	691.62	24C57	40	133	178	102	76.05	24A57	40	76.73
60	727.99	24C60	40	133	178	102	80.05	24A60	40	85.19
76	922.00	24C76	40	133	191	114	129.00	24A76	40	116.00

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

ISO 24B-1

METRIC 120

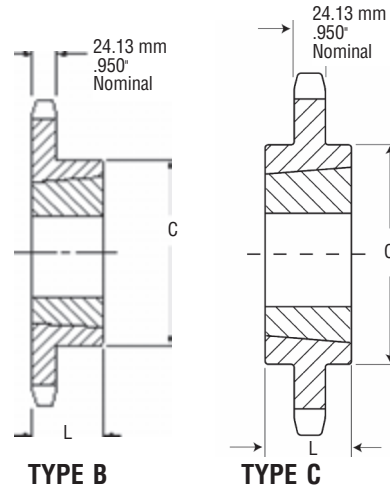
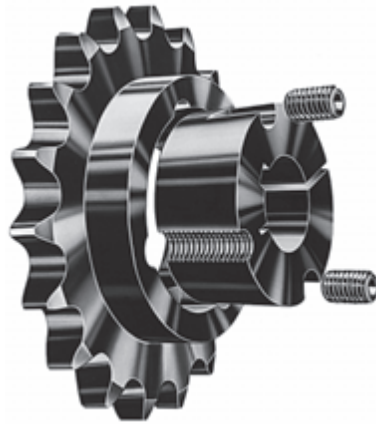
Metric Sprockets



CHAIN DATA:

BS 228/18
ISO 24B-1
PITCH: 38.10 mm (1.50")
ROLLER DIAMETER: 25.40 mm (1.00")
ROLLER WIDTH: 25.40 mm (1.00")
TENSILE: 9,980 kilos (22,000 lbs.)

1.50 INCH (38.10 mm) PITCH SIMPLEX



Simplex - Taper Bushed — Steel

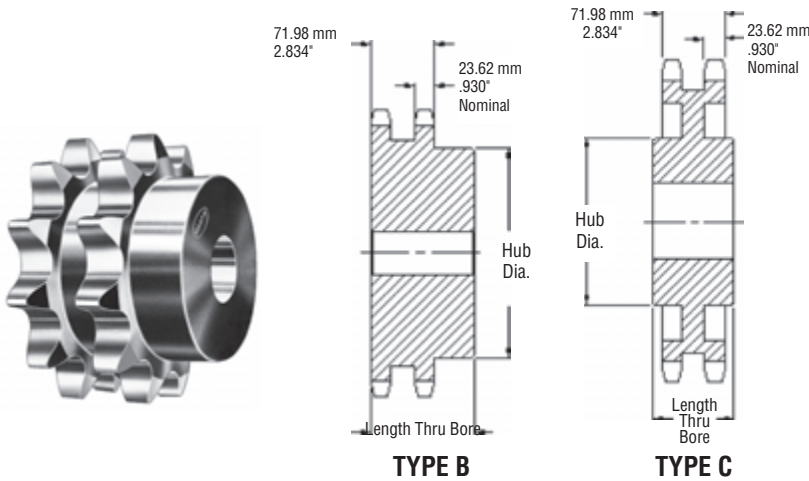
No. Teeth	Pitch Diameter MM	Catalog Number	Bushing Number	Bore Max. MM	Dimension		Weight Approx.	
					L MM	C MM	Rim (kg)	Bushing (kg)
11	135.23	24BTB11H	2012	50.80	31.75	90.49	2.28	0.77
12	147.21	24BTB12H	2012	50.80	31.75	90.49	2.49	0.77
13	159.20	24BTB13H	2517	63.50	44.45	107.95	2.77	1.59
14	171.22	24BTB14H	2517	63.50	44.45	107.95	3.54	1.59
15	183.25	24BTB15H	2517	63.50	44.45	107.95	4.31	1.59
16	195.29	24BTB16H	3020	76.20	50.80	133.35	4.77	2.95
17	207.35	24BTB17H	3020	76.20	50.80	133.35	5.45	2.95
18	219.41	24BTB18H	3020	76.20	50.80	133.35	6.13	2.95
19	231.48	24BTB19H	3020	76.20	50.80	133.35	6.81	2.95
20	243.55	24BTB20H	3020	76.20	50.80	133.35	7.49	2.95
21	255.63	24BTB21H	3020	76.20	50.80	133.35	7.94	2.95
22	267.72	24BTB22H	3020	76.20	50.80	133.35	8.75	2.95
23	279.80	24BTB23H	3020	76.20	50.80	133.35	9.53	2.95
24	291.90	24BTB24H	3020	76.20	50.80	133.35	10.67	2.95
25	303.99	24BTB25H	3020	76.20	50.80	133.35	11.80	2.95
26	316.09	24BTB26H	3020	76.20	50.80	133.35	12.93	2.95
27	328.19	24BTB27H	3020	76.20	50.80	133.35	13.50	2.95
28	340.29	24BTB28H	3020	76.20	50.80	133.35	14.70	2.95
29	352.29	24BTB29H	3020	76.20	50.80	133.35	14.75	2.95
30	364.49	24BTB30H	3020	76.20	50.80	133.35	15.20	2.95
32	388.71	24BTB32	3020	76.20	50.80	133.35	15.76	2.95
38	461.37	24CTB38	3030	76.20	76.20	139.70	24.97	4.18
40	485.60	24CTB40	3030	76.20	76.20	139.70	28.46	4.18
42	509.83	24CTB42	3030	76.20	76.20	139.70	31.95	4.18
45	546.19	24CTB45	3030	76.20	76.20	139.70	37.19	4.18
48	582.54	24CTB48	3030	76.20	76.20	139.70	42.43	4.18
50	606.78	24CTB50	3030	76.20	76.20	139.70	45.92	4.18
54	655.26	24CTB54	3535	88.90	88.90	165.10	63.32	6.36
57	691.62	24CTB57	3535	88.90	88.90	165.10	71.46	6.36
60	727.99	24CTB60	3535	88.90	88.90	165.10	79.60	6.36
68	824.97	24CTB68	3535	88.90	88.90	165.10	101.31	6.36
72	873.46	24CTB72	3535	88.90	88.90	165.10	112.17	6.36
76	921.96	24CTB76	3535	88.90	88.90	165.10	123.02	6.36
95	1152.33	24CTB95	4040	101.60	101.60	196.85	196.67	9.98
96	1164.46	24CTB96	4040	101.60	101.60	196.85	201.03	9.98
114	1382.72	24CTB114	4040	101.60	101.60	196.85	279.50	9.98

Sprockets with "H" suffix have hardened teeth.

1.50 INCH (38.10 mm) PITCH DUPLEX

CHAIN DATA:

BS 228/18
 ISO 24B-2
 PITCH: 38.10 mm (1.50")
 ROLLER DIAMETER: 25.40 mm (1.00")
 ROLLER WIDTH: 25.40 mm (1.00")
 TENSILE: 19,960 kilos (44,000 lbs.)



Duplex - Type B/C — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight Approx. (kg)
			Stock MM	Max. MM	Dia. MM	Thru MM	
11	135.23	D24B11	32	60	90	100	6.50
12	147.21	D24B12	32	67	102	100	8.13
13	159.20	D24B13	32	76	114	100	9.92
14	171.22	D24B14	32	84	128	100	11.98
15	183.25	D24B15	32	93	140	100	14.13
16	195.29	D24B16	32	100	150	100	16.35
17	207.35	D24B17	40	100	150	100	17.85
18	219.41	D24B18	40	108	160	100	20.35
19	231.48	D24B19	40	108	160	100	22.56
20	243.55	D24B20	40	108	160	100	24.78
21	255.63	D24B21	40	108	160	100	26.99
22	267.72	D24B22	40	108	160	102	29.74
23	279.80	D24B23	40	108	160	102	32.87
24	291.90	D24B24	40	108	160	102	36.00
25	303.99	D24B25	40	108	160	102	39.13
26	316.09	D24B26	40	108	160	102	42.26
27	328.19	D24B27	40	108	160	102	45.40
28	340.29	D24B28	40	108	160	102	48.53
29	352.39	D24B29	40	108	160	102	51.66
30	364.49	D24B30	40	108	160	102	54.79
32	388.71	D24B32	40	108	160	102	61.05
38	461.37	D24C38	40	137	190	152	72.01
40	485.60	D24C40	40	137	190	152	75.80
42	509.83	D24C42	40	137	190	152	79.59
45	546.19	D24C45	40	137	190	152	85.28
48	582.54	D24C48	40	137	190	152	90.97
50	606.78	D24C50	40	137	190	152	94.76
54	655.26	D24C54	40	161	238	159	127.46
57	691.62	D24C57	40	161	238	159	140.74
60	727.99	D24C60	40	161	238	159	154.02
68	824.97	D24C68	40	161	238	159	189.45
72	873.46	D24C72	40	161	238	159	207.16
76	921.96	D24C76	40	161	238	159	224.87
95	1152.33	D24C95	40	161	238	159	309.00
96	1164.46	D24C96	40	161	238	159	313.43
114	1382.72	D24C114	40	161	238	159	393.13

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

ISO 28B-1

METRIC 140

Metric Sprockets



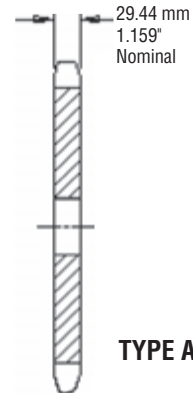
CHAIN DATA:

BS 228/20
ISO 28B-1
PITCH: 44.45 mm (1.75")
ROLLER DIAMETER: 27.94 mm (1.10")
ROLLER WIDTH: 30.99 mm (1.22")
TENSILE: 13,160 kilos (29,000 lbs.)

1.75 INCH (44.45 mm) PITCH SIMPLEX



29.44 mm
1.159"
Nominal



TYPE A

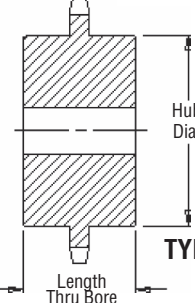


29.44 mm
1.159"
Nominal



TYPE B

29.44 mm
1.159"
Nominal



TYPE C

Simplex - Type A — Steel

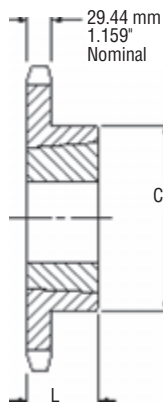
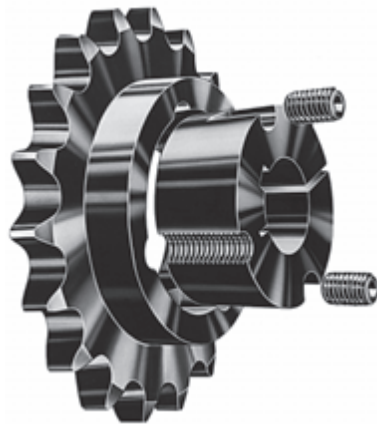
Simplex - Type B/C — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight Approx. (kg)	Catalog Number	Bore Stock MM	Weight Approx. (kg)
			Stock MM	Max. MM	Dia. MM	Thru MM				
11	157.77	28B11	40	73	112	70	5.27	28A11	32	3.18
12	171.74	28B12	40	84	125	70	6.40	28A12	32	3.95
13	185.74	28B13	40	93	140	70	8.22	28A13	32	4.31
14	199.76	28B14	40	93	140	60	9.13	28A14	32	4.77
15	213.79	28B15	40	108	160	60	11.40	28A15	40	5.45
16	227.84	28B16	40	108	160	64	12.76	28A16	40	6.81
17	241.91	28B17	40	108	160	64	13.65	28A17	40	7.71
18	255.98	28B18	40	108	160	64	13.65	28A18	40	8.63
19	270.06	28B19	40	108	160	64	15.01	28A19	40	9.53
20	284.14	28B20	40	108	160	64	16.84	28A20	40	10.44
21	298.24	28B21	40	108	160	64	18.19	28A21	40	11.79
22	312.34	28B22	40	108	160	64	19.11	28A22	40	13.17
23	326.44	28B23	40	108	160	64	20.46	28A23	40	14.06
24	340.54	28B24	40	108	160	64	21.84	28A24	40	15.44
25	354.65	28B25	40	108	160	64	22.73	28A25	40	16.78
26	368.77	28B26	40	108	160	64	26.83	28A26	40	18.61
27	382.88	28B27	40	108	160	64	27.74	28A27	40	20.43
28	397.00	28B28	40	108	160	64	30.29	28A28	40	20.88
29	411.12	28B29	40	108	160	64	31.74	28A29	40	23.06
30	425.24	28B30	40	108	160	64	32.73	28A30	40	25.17
32	453.49	28B32	40	134	180	76	34.84	28A32	40	31.02
38	538.27	28C38	40	134	178	102	51.25	28A38	40	48.58
40	566.54	28C40	40	134	178	102	52.84	28A40	40	52.80
42	594.81	28C42	40	134	178	102	54.43	28A42	40	57.02
45	637.22	28C45	40	134	178	102	60.55	28A45	40	63.35
48	679.63	28C48	40	134	178	102	62.72	28A48	40	69.68
54	764.47	28C54	40	134	178	127	74.60	28A54	40	82.34
57	806.89	28C57	40	134	178	127	81.77	28A57	40	88.67
60	849.32	28C60	40	134	178	127	88.94	28A60	40	97.97
68	962.47	28C68	40	137	191	127	108.05	28A68	40	122.79
72	1019.04	28C72	40	137	191	127	117.61	28A72	40	135.19
76	1075.62	28C76	40	137	191	127	127.17	28A76	40	147.60
95	1344.39	28C95	40	137	191	127	172.57	28A95	40	206.53
96	1358.53	28C96	40	137	191	127	174.96	28A96	40	209.63
114	1613.18	28C114	40	137	191	127	217.97	28A114	40	265.46

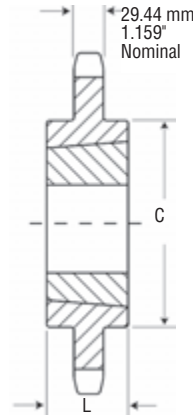
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

1.75 INCH (44.45 mm) PITCH SIMPLEX

CHAIN DATA:
 BS 228/20
 ISO 28B-1
 PITCH: 44.45 mm (1.75")
 ROLLER DIAMETER: 27.94 mm (1.10")
 ROLLER WIDTH: 30.99 mm (1.22")
 TENSILE: 13,160 kilos (29,000 lbs.)



TYPE B



TYPE C

Simplex - Taper Bushed — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bushing Number	Bore Max. MM	Dimension		Weight Approx.	
					L MM	C MM	Rim (kg)	Bushing (kg)
11	157.80	28BTB11H	2517	63.50	44.45	107.95	3.53	1.59
12	170.80	28BTB12H	2517	63.50	44.45	107.95	3.86	1.59
13	185.80	28BTB13H	3020	76.20	50.80	133.35	5.90	2.95
14	199.80	28BTB14H	3020	76.20	50.80	133.35	7.04	2.95
15	213.80	28BTB15H	3020	76.20	50.80	133.35	8.17	2.95
16	227.90	28BTB16H	3020	76.20	50.80	133.35	9.76	2.95
17	241.90	28BTB17H	3020	76.20	50.80	133.35	11.35	2.95
18	256.00	28BTB18H	3020	76.20	50.80	133.35	12.49	2.95
19	270.10	28BTB19H	3020	76.20	50.80	133.35	13.62	2.95
20	284.10	28BTB20H	3020	76.20	50.80	133.35	14.3	2.95
21	298.30	28BTB21H	3020	76.20	50.80	133.35	14.98	2.95
22	312.30	28BTB22H	3020	76.20	50.80	133.35	16.91	2.95
23	326.40	28BTB23H	3020	76.20	50.80	133.35	18.84	2.95
24	340.50	28BTB24H	3020	76.20	50.80	133.35	20.77	2.95
25	354.70	28BTB25H	3020	76.20	50.80	133.35	22.70	2.95
26	368.80	28BTB26H	3020	76.20	50.80	133.35	24.63	2.95
27	382.90	28BTB27	3020	76.20	50.80	133.35	26.56	2.95
28	397.00	28BTB28	3020	76.20	50.80	133.35	28.49	2.95
30	425.20	28BTB30	3020	76.20	50.80	133.35	32.35	2.95
32	453.49	28BTB32	3020	76.20	50.80	133.35	36.21	2.95
38	538.30	28CTB38	3535	88.90	88.90	165.10	45.40	6.36
40	566.55	28CTB40	3535	88.90	88.90	165.10	47.79	6.36
42	594.82	28CTB42	3535	88.90	88.90	165.10	50.18	6.36
45	637.21	28CTB45	4040	101.60	101.60	219.08	57.35	9.99
48	679.63	28CTB48	4040	101.60	101.60	219.08	61.17	9.99
54	764.46	28CTB54	4040	101.60	101.60	219.08	68.82	9.99
57	806.90	28CTB57	4040	101.60	101.60	219.08	72.64	9.99
60	849.33	28CTB60	4040	101.60	101.60	219.08	76.44	9.99
68	962.46	28CTB68	4040	101.60	101.60	219.08	86.63	9.99
72	1019.05	28CTB72	4040	101.60	101.60	219.08	91.73	9.99
76	1075.60	28CTB76	4040	101.60	101.60	219.08	96.83	9.99
95	1344.37	28CTB95	4040	101.60	101.60	219.08	121.03	9.99
96	1358.52	28CTB96	4040	101.60	101.60	219.08	122.31	9.99
114	1613.18	28CTB114	4040	101.60	101.60	219.08	145.24	9.99

ISO 28B-2

METRIC 140-2

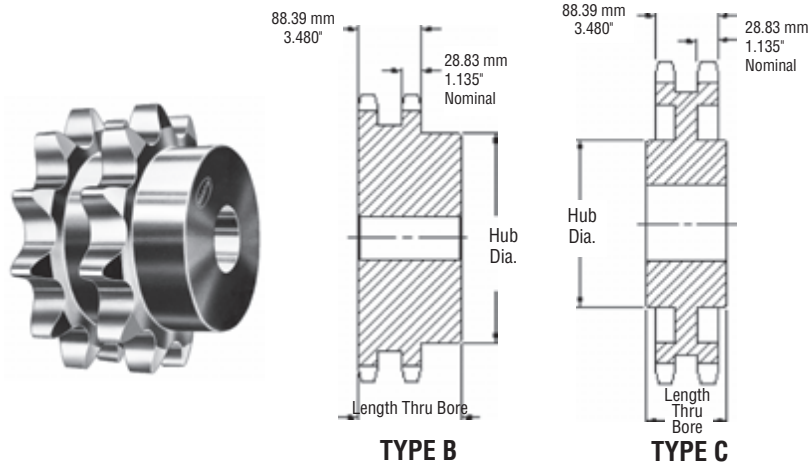
Metric Sprockets



CHAIN DATA:

BS 228/20
 ISO 28B-2
 PITCH: 44.45 mm (1.75")
 ROLLER DIAMETER: 27.94 mm (1.10")
 ROLLER WIDTH: 30.99 mm (1.22")
 TENSILE: 26,320 kilos (58,000 lbs.)

1.75 INCH (44.45 mm) PITCH DUPLEX



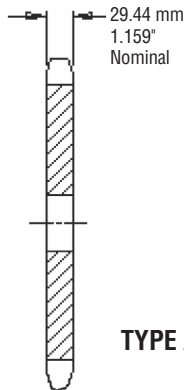
Duplex - Type B/C — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight Approx. (kg)
			Stock MM	Max. MM	Dia. MM	Thru MM	
11	157.77	D28B11	40	73	112	120	10.21
12	171.74	D28B12	40	84	125	120	13.02
13	185.74	D28B13	40	84	130	120	16.00
14	199.76	D28B14	40	87	135	120	19.28
15	213.79	D28B15	40	96	145	120	22.91
16	227.84	D28B16	40	108	160	120	26.92
17	241.91	D28B17	40	114	178	120	30.83
18	255.98	D28B18	40	114	178	120	34.74
19	270.06	D28B19	40	133	178	120	38.93
20	284.14	D28B20	40	133	178	120	44.27
21	298.24	D28B21	40	133	178	120	45.08
22	312.34	D28B22	40	133	178	120	48.15
23	326.44	D28B23	40	133	178	120	51.59
24	340.54	D28B24	40	133	178	120	55.03
25	354.65	D28B25	40	133	178	120	58.47
26	368.77	D28B26	40	133	178	120	64.06
28	397.00	D28B28	40	133	178	120	76.05
30	425.24	D28B30	40	133	178	120	89.16
32	453.49	D28B32	40	133	178	120	103.38
38	537.27	D28C38	40	133	191	159	97.53
40	566.54	D28C40	40	137	191	159	109.47
45	637.22	D28C45	40	137	191	159	137.32
48	679.63	D28C48	40	137	191	159	153.61
54	764.47	D28C54	40	162	241	181	204.44
57	806.89	D28C57	40	162	241	181	210.02
60	849.32	D28C60	40	162	241	181	230.82
68	962.47	D28C68	40	162	241	181	273.98
72	1019.04	D28C72	40	162	241	181	305.70
76	1075.62	D28C76	40	162	241	181	323.56

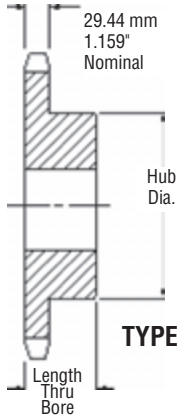
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

2.00 INCH (50.80 mm) PITCH **SIMPLEX**

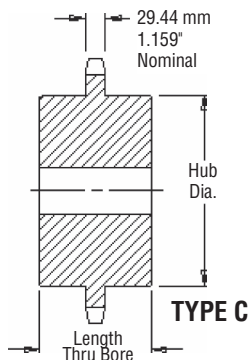
CHAIN DATA:
 BS 228/22
 ISO 32B-1
 PITCH: 50.80 mm(2.00")
 ROLLER DIAMETER: 29.21 mm (1.15")
 ROLLER WIDTH: 30.99 mm (1.22")
 TENSILE: 17,240 kilos (38,000 lbs.)



TYPE A



TYPE B



TYPE C

Simplex - Type B/C — Steel

Simplex - Type A — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight Approx. (kg)	Catalog Number	Bore Stock MM	Weight Approx. (kg)
			Stock MM	Max. MM	Dia. MM	Thru MM				
11	180.31	32B11	40	83	120	80	9.04	32A11	32	5.00
12	196.28	32B12	40	89	133	80	11.11	32A12	32	6.02
13	212.27	32B13	40	102	152	70	12.61	32A13	32	7.12
14	228.29	32B14	40	102	152	70	14.97	32A14	32	8.32
15	244.33	32B15	40	102	178	70	17.32	32A15	40	9.50
16	260.39	32B16	40	103	178	70	18.78	32A16	40	11.64
17	276.46	32B17	40	103	178	70	20.23	32A17	40	12.35
18	292.55	32B18	40	103	178	70	21.88	32A18	40	13.96
19	308.64	32B19	40	103	178	70	23.53	32A19	40	15.57
20	324.74	32B20	40	133	178	70	25.37	32A20	40	17.36
21	340.84	32B21	40	133	178	70	27.20	32A21	40	19.15
22	356.96	32B22	40	133	178	70	29.23	32A22	40	21.13
23	373.07	32B23	40	133	178	70	31.25	32A23	40	23.10
24	389.19	32B24	40	133	178	76	35.33	32A24	40	25.26
25	405.32	32B25	40	133	178	76	36.80	32A25	40	27.41
26	421.45	32B26	40	133	181	76	39.41	32A26	40	30.25
27	437.58	32B27	40	133	181	76	42.02	32A27	40	33.10
28	453.72	32B28	40	133	181	76	44.62	32A28	40	35.94
29	469.85	32B29	40	133	181	76	47.23	32A29	40	38.78
30	485.99	32B30	40	133	181	76	49.84	32A30	40	41.63
32	518.28	32B32	40	139	203	76	58.02	32A32	40	47.31
38	615.17	32C38	40	139	203	114	86.78	32A38	40	64.37
40	647.47	32C40	40	139	203	114	91.35	32A40	40	72.98
42	679.78	32C42	40	139	203	114	95.91	32A42	40	81.60
45	728.25	32C45	40	139	203	127	116.97	32A45	40	94.52
48	776.72	32C48	40	139	203	127	130.43	32A48	40	107.44
54	873.68	32C54	40	139	203	127	157.34	32A54	40	133.29
57	922.16	32C57	40	139	203	127	170.79	32A57	40	146.21
60	970.65	32C60	40	139	203	127	184.25	32A60	40	164.35
68	1099.96	32C68	40	139	203	127	220.13	32A68	40	212.73
72	1164.62	32C72	40	139	203	152	282.31	32A72	40	236.91
76	1229.28	32C76	40	139	203	152	297.99	32A76	40	261.10

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

ISO 32B-1

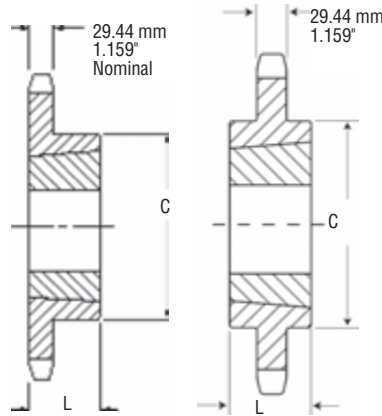
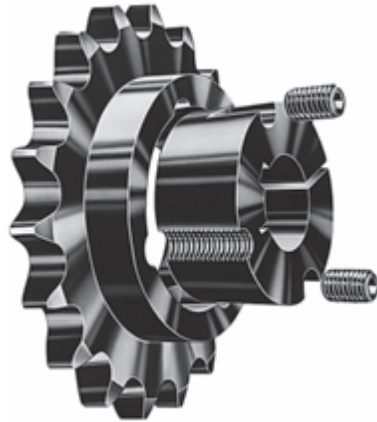
METRIC 160

Metric Sprockets



CHAIN DATA:
 BS 228/22
 ISO 32B-1
 PITCH: 50.80 mm (2.00")
 ROLLER DIAMETER: 29.21 mm (1.15")
 ROLLER WIDTH: 30.99 mm (1.22")
 TENSILE: 17,240 kilos (38,000 lbs.)

2.00 INCH (50.80 mm) PITCH SIMPLEX



TYPE B

TYPE C

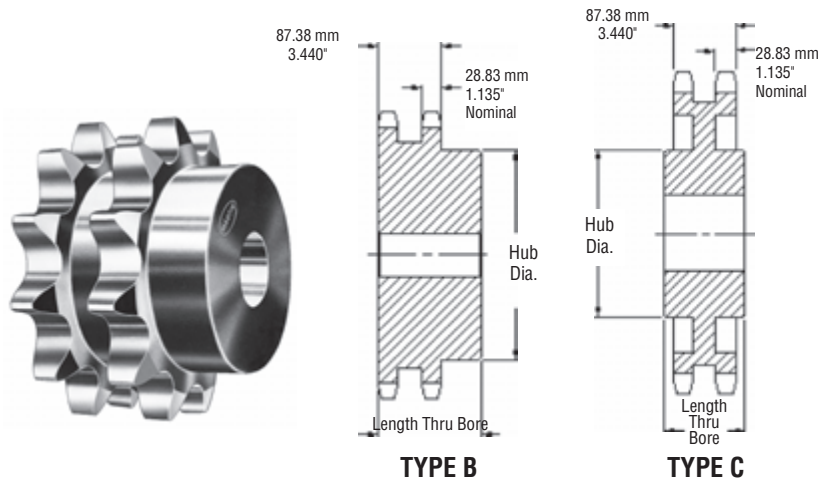
Simplex - Taper Bushed — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bushing Number	Bore Max. MM	Dimension		Weight Approx.	
					L MM	C MM	Rim (kg)	Bushing (kg)
11	180.31	32BTB11H	2517	63.50	44.45	107.95	4.51	1.59
12	196.28	32BTB12H	3020	76.20	50.80	133.35	5.27	2.95
13	212.27	32BTB13H	3020	76.20	50.80	133.35	6.38	2.95
14	228.29	32BTB14H	3020	76.20	50.80	133.35	6.87	2.95
15	244.33	32BTB15H	3535	88.90	88.90	165.10	11.80	6.36
16	260.39	32BTB16H	3535	88.90	88.90	165.10	13.38	6.36
17	276.46	32BTB17H	3535	88.90	88.90	165.10	14.98	6.36
18	292.55	32BTB18H	3535	88.90	88.90	165.10	16.12	6.36
19	308.64	32BTB19H	3535	88.90	88.90	165.10	17.25	6.36
20	324.74	32BTB20H	3535	88.90	88.90	165.10	21.10	6.36
21	340.84	32BTB21H	3535	88.90	88.90	165.10	24.94	6.36
22	356.96	32BTB22H	3535	88.90	88.90	165.10	27.79	6.36
23	373.07	32BTB23H	3535	88.90	88.90	165.10	30.64	6.36
24	389.19	32BTB24H	3535	88.90	88.90	165.10	33.48	6.36
25	405.32	32BTB25H	3535	88.90	88.90	165.10	36.32	6.36
26	421.45	32BTB26H	3535	88.90	88.90	165.10	39.16	6.36
27	437.58	32BTB27	3535	88.90	88.90	165.10	42.00	6.36
28	453.72	32BTB28	3535	88.90	88.90	165.10	44.84	6.36
30	486.99	32BTB30	3535	88.90	88.90	165.10	50.52	6.36
32	518.28	32BTB32	3535	88.90	88.90	165.10	56.20	6.36
38	615.17	32CTB38	4040	101.60	101.60	219.08	68.10	10.00
40	647.47	32CTB40	4040	101.60	101.60	219.08	77.08	10.00
45	728.25	32CTB45	4040	101.60	101.60	219.08	99.53	10.00
48	776.72	32CTB48	4040	101.60	101.60	219.08	113.01	10.00
54	873.68	32CTB54	4040	101.60	114.30	219.08	139.95	10.00
57	922.16	32CTB57	4545	114.30	114.30	247.65	136.20	13.62
60	970.65	32CTB60	4545	114.30	114.30	247.65	158.84	13.62
64	1035.30	32CTB64	4545	114.30	114.30	247.65	189.03	13.62
70	1132.29	32CTB70	4545	114.30	114.30	247.65	234.32	13.62

2.00 INCH (50.80 mm) PITCH DUPLEX

CHAIN DATA:

BS 228/22
 ISO 32B-2
 PITCH: 50.80 mm (2.00")
 ROLLER DIAMETER: 29.21 mm (1.15")
 ROLLER WIDTH: 30.99 mm (1.22")
 TENSILE: 34,480 kilos (76,000 lbs.)



Duplex - Type B/C — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight Approx. (kg)
			Stock MM	Max. MM	Dia. MM	Thru MM	
11	180.31	D32B11	40	80	125	120	10.42
12	196.28	D32B12	40	89	133	120	16.32
13	212.27	D32B13	40	96	145	120	21.77
14	228.29	D32B14	40	103	155	120	26.31
15	244.33	D32B15	40	106	160	120	30.84
16	260.39	D32B16	40	120	178	120	34.02
17	276.46	D32B17	40	120	178	120	41.28
18	292.55	D32B18	40	120	178	120	43.55
19	308.64	D32B19	40	120	178	120	48.53
20	324.74	D32B20	40	130	191	120	53.98
21	340.84	D32B21	40	130	191	120	58.97
22	356.96	D32B22	40	130	191	120	63.96
23	373.07	D32B23	40	130	191	120	71.21
24	389.19	D32B24	40	130	191	120	77.57
25	405.32	D32B25	40	130	191	120	84.82
26	421.45	D32B26	40	130	191	120	91.17
27	437.58	D32B27	40	130	191	120	97.52
28	453.72	D32B28	40	130	191	120	101.13
30	485.99	D32B30	40	130	191	120	116.57
38	615.17	D32B38	40	178	254	181	170.25
40	647.47	D32C40	40	178	254	181	177.46
45	728.25	D32C45	40	178	254	181	195.50
48	776.72	D32C48	40	178	254	181	204.51
54	873.68	D32C54	40	178	254	181	222.53
57	922.16	D32C57	40	178	254	181	231.54
60	970.65	D32C60	40	178	254	181	255.83
76	1229.28	D32C76	40	178	254	181	292.83

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

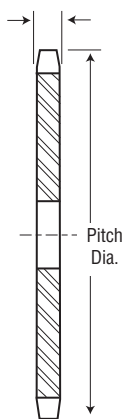
SPROCKET ENGINEERING DATA

- ROLLER CHAIN DIMENSIONS
- SPROCKET TOOTH DIMENSIONS
- MAXIMUM HUB RECOMMENDATIONS
- APPLICATION AND SELECTION
- HARDENING
- CHAIN LENGTH CALCULATION
- SPEED RATIOS
- SPROCKET DIAMETERS
- HORSEPOWER RATINGS

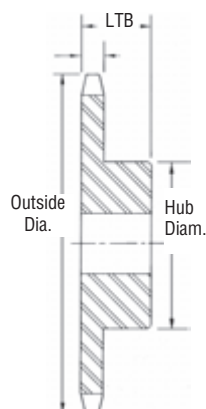
SPROCKETS

American sprocket manufacturers have adopted 4 specific types of sprocket construction styles as American Standards. In addition to the standard sprockets, special sprockets may be available in the same styles.

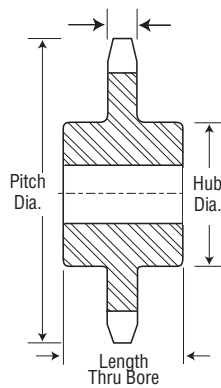
- Style A** - Flat sprocket with no hub extension either side.
- Style B** - Sprocket with hub extension one side.
- Style C** - Sprocket with hub extension both sides.
- Style D** - Sprocket with a detachable bolt on hub attached to a plate.



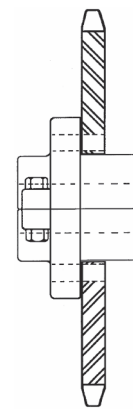
Single
Type A Hub



Single
Type B Hub



Single
Type C Hub



Single
Type D Hub

Listed using a letter prefix starting with the letter "D" for Double Strand, "E" for Triple Strand, and "F" for Quadruple, etc. They also have the same hub configuration letter designation listed on previous page. In addition to the four specific types, sprockets may also be made in various other styles.

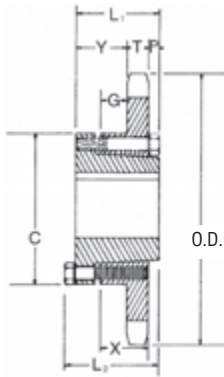


Double

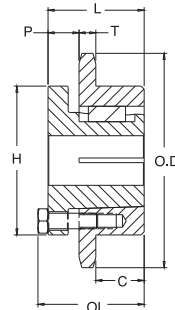


Triple

Five common styles are:



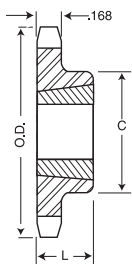
QD



MST®

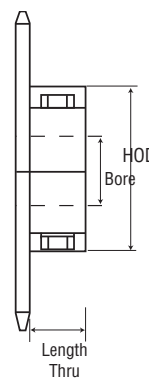
The **QD** (quick detachable) sprocket; here a tapered bushing is bolted into the bore machined in the sprocket. This bushing, when inserted into the sprocket, compresses onto the shaft providing a tight grip.

The **MST®** (*Martin* Split Taper®) is another style of bushed sprocket. The bushing is similar to the QD style except it has an external key that fits into the driven product.



TB

The **TB** (taper bushed) sprocket is another style of an interchangeable bushed sprocket, which provides a positive grip on a driven shaft.



Split

A **Split** type sprocket is used in place of solid type to allow quick installation without disruption of shaft and alignment.



Shear Pin Sprocket

Sprocket Nomenclature



Sprocket nomenclatures provide the chain pitch written to the left of the hub style code letter followed by the number of teeth in the sprocket. If the sprocket is to be multiple strand, the prefix code letter is added to the beginning of the part number.

A suffix of H is added if the teeth are to be heat treated. If the sprocket is to be bored for QD, Taper Bushed or MST, the center hub letter is changed. For QD and MST styles the letter designation of the bushing is used in lieu of the hub style code. If a taper bushing is to be used, the two letters TB are added behind the hub code letter.

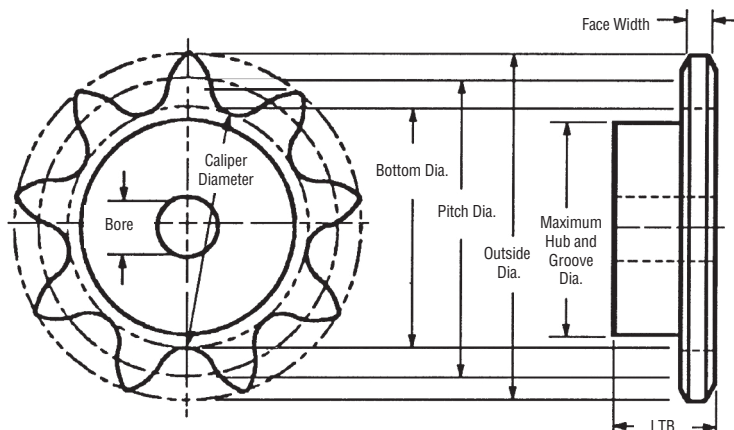
In some instances, the material a sprocket is to be manufactured from will be added into the part number as a suffix.

For example:

- SS** - Stainless Steel Material
- NM** - Non-Metallic
- BR** - Brass or Bronze Material
- CD** - Cadmium Plated
- Zi** - Zinc Plated
- Ni** - Nickel Plated
- CH** - Chrome Plated

If the part is to be used with a shear pin device, the center hub style letter is substituted with an SP.

Most manufacturers of sprockets conform to the ANSI (American Standards Institute) and *Martin* conforms to the Type II tooth form as given in the standard B29.1 - 1975. It is not necessary to show detailed tooth information on sprocket drawings, just specify ANSI standard tooth form.



Sprocket Dimensional Specifications

- Bottom Diameter (B.D.)** - The diameter of a circle tangent to the bottoms of the tooth spaces.
- Caliper Diameter** - Since the bottom diameter of a sprocket with odd number of teeth cannot be measured directly, caliper diameters are the measurement across the tooth spaces nearly opposite.
- Pitch Diameter (P.D.)** - The diameter across to the pitch circle which is the circle followed by the centers of the chain pins as the sprocket revolves in mesh with the chain.

$$PD = \frac{PITCH}{\sin (180/Nt)}$$

- Outside Diameter (O.D.)** - The measurement from the tip of the sprocket tooth across to the corresponding point directly across the sprocket. It is comparatively unimportant as the tooth length is not vital to proper meshing with the chain. The outside diameter may vary depending on type of cutter used.

$$OD = (Pitch) (.6 + \cot [180 / Nt])$$

- Hub Diameter (HOD)** - That distance across the hub from one side to another. This diameter must not exceed the calculated diameter of the inside of the chain side bars.
- Maximum Sprocket Bore** - Maximum Sprocket Bore is determined by the required hub wall thickness for proper strength. Allowance must be made for keyway and setscrews.
- Face Width** - Face width is limited in its maximum dimension to allow proper clearance to provide for chain engagement and disengagement. The minimum width is limited to provide the proper strength to carry the imposed loads.
- Length Thru Bore (LTB)** - Length Thru Bore (or L.T.B.) must be sufficient to allow a long enough key to withstand the torque transmitted by the shaft. This also assures stability of the sprocket on the shaft.

Roller Chain Dimensions



ANSI Number	Roller Width	Roller Diam.	Inside Link Plate Height	Cottered Chain Width*	Riveted Chain Width*	Average Tensile Strength
STANDARD SERIES CHAIN						
25	1/8	.130	.237	.37	.34	875
25-2	1/8	.130	.237	.63	.59	1750
25-3	1/8	.130	.237	.88	.84	2626
35	3/16	.200	.356	.56	.50	2100
35-2	3/16	.200	.356	.96	.90	4200
35-3	3/16	.200	.356	1.36	1.31	6300
35-4	3/16	.200	.356	1.76	1.70	8400
35-5	3/16	.200	.356	2.16	2.11	10500
35-6	3/16	.200	.356	2.57	2.51	12600
40	1/4	.312	.475	.72	.67	3700
40-2	1/4	.312	.475	1.29	1.24	7400
40-3	1/4	.312	.475	1.85	1.80	11100
40-4	1/4	.312	.475	2.42	2.37	14800
40-6	1/4	.312	.475	3.56	3.51	22200
41	1/4	.306	.383	.65	.57	2000
50	5/16	.400	.594	.89	.83	6600
50-2	5/16	.400	.594	1.60	1.55	13200
50-3	5/16	.400	.594	2.31	2.26	19800
50-4	5/16	.400	.594	3.03	2.97	26400
50-5	5/16	.400	.594	3.75	3.69	33000
50-6	5/16	.400	.594	4.46	4.40	39600
60	3/8	.469	.712	1.11	1.04	8500
60-2	3/8	.469	.712	2.01	1.94	17000
60-3	3/8	.469	.712	2.91	2.84	25500
60-4	3/8	.469	.712	3.81	3.74	34000
60-5	3/8	.469	.712	4.71	4.64	42500
60-6	3/8	.469	.712	5.60	5.53	51000
80	1/2	.625	.950	1.44	1.32	14500
80-2	1/2	.625	.950	2.59	2.47	29000
80-3	1/2	.625	.950	3.74	3.62	43500
80-4	1/2	.625	.950	4.90	4.79	58000
80-5	1/2	.625	.950	6.06	5.94	72500
80-6	1/2	.625	.950	7.22	7.10	87000

*Dimensions are across pins.

ANSI Number	Roller Width	Roller Diam.	Inside Link Plate Height	Cottered Chain Width*	Riveted Chain Width*	Average Tensile Strength
STANDARD SERIES CHAIN						
100	3/8	.750	1.187	1.73	1.61	24000
100-2	3/8	.750	1.187	3.14	3.02	48000
100-3	3/8	.750	1.187	4.56	4.43	72000
100-4	3/8	.750	1.187	5.97	5.84	96000
100-5	3/8	.750	1.187	7.38	7.25	120000
100-6	3/8	.750	1.187	8.78	8.66	144000
120	1	.875	1.425	2.14	2.00	34000
120-2	1	.875	1.425	3.93	3.79	68000
120-3	1	.875	1.425	5.72	5.58	102000
120-4	1	.875	1.425	7.52	7.38	136000
120-5	1	.875	1.425	9.31	9.17	170000
120-6	1	.875	1.425	11.10	10.96	204000
140	1	1.000	1.662	2.31	2.14	46000
140-2	1	1.000	1.662	4.24	4.07	92000
140-3	1	1.000	1.662	6.16	6.00	138000
140-4	1	1.000	1.662	8.09	7.93	184000
140-6	1	1.000	1.662	11.94	11.78	276000
160	1 1/4	1.125	1.900	2.73	2.54	58000
160-2	1 1/4	1.125	1.900	5.04	4.85	116000
160-3	1 1/4	1.125	1.900	7.35	7.16	174000
160-4	1 1/4	1.125	1.900	9.66	9.47	232000
160-6	1 1/4	1.125	1.900	14.27	14.09	348000
180	1 1/2	1.406	2.137	3.15	2.88	76000
180-2	1 1/2	1.406	2.137	5.75	5.48	152000
180-3	1 1/2	1.406	2.137	8.34	8.07	228000
200	1 3/4	1.562	2.375	3.44	3.12	95000
200-2	1 3/4	1.562	2.375	6.26	5.94	190000
200-3	1 3/4	1.562	2.375	9.08	8.76	285000
200-4	1 3/4	1.562	2.375	11.90	11.58	380000
200-6	1 3/4	1.562	2.375	17.52	17.21	570000
240	1 3/4	1.875	2.812	4.06	3.72	130000
240-2	1 3/4	1.875	2.812	7.52	7.18	260000

*Dimensions are across pins.

STANDARD KEYWAYS AND SETSCREWS

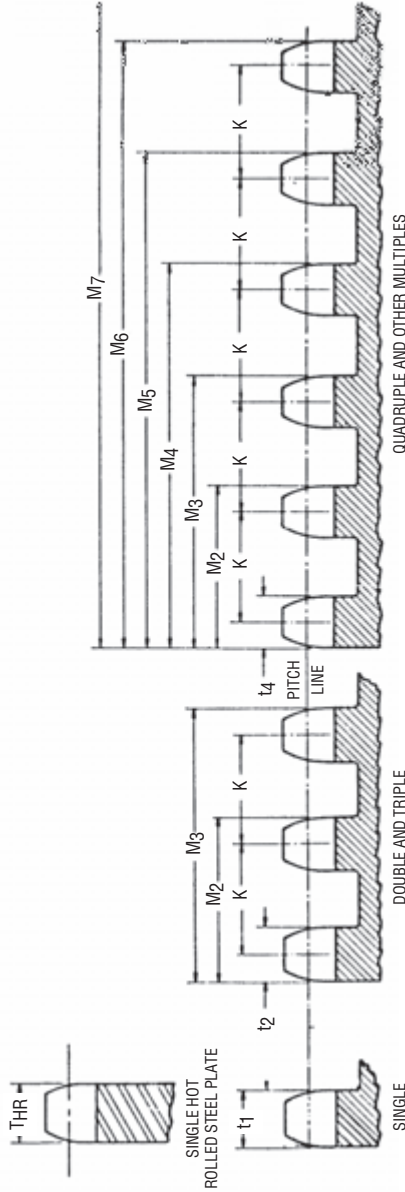
Diameter of Shaft	Keyway Width x Depth	Setscrew	Diameter of Shaft	Keyway Width x Depth	Setscrew
1/2 - 3/8	1/8 x 1/16	10-24	2 1/16 - 2 3/8	3/8 x 3/16	3/8 *
5/8 - 3/4	3/16 x 3/32	1/4	2 3/16 - 3 1/4	3/4 x 3/8	3/4 *
7/8 - 1 1/4	1/4 x 1/8	5/16	3 3/8 - 3 3/4	7/8 x 7/16	3/4
1 1/8 - 1 3/8	5/16 x 5/32	3/8	3 3/8 - 4 1/2	1 x 1/2	3/4
1 1/2 - 1 3/4	3/8 x 3/16	1/2	4 1/4 - 5 1/2	1 1/4 x 3/8	3/4
1 3/4 - 2 1/4	1/2 x 1/4	5/8	5 1/8 - 6 1/2	1 1/2 x 3/4	3/4

*Hub size may require smaller setscrews in some instances.

STANDARD BORE TOLERANCES

1" and Less	+ .001 -0.000
1 1/8" to 2"	+ .002 -0.000
2 1/8" to 3"	+ .003 -0.000
3 1/8" & up	+ .004 -0.000
Bores with closer tolerances will be supplied at a slight increase in price.	

Sprocket Tooth Dimensions



Dimensions in Inches

A.S.A. Chain No.	Chain Data For All Sprockets			Single Strand THR	Double and Triple Strand			For 4 or more Strands								Minus Tolerance on "M" and "M" Machined	Minus Tolerance on THR			
	Pitch P	Roller Width W	Roller Diameter		M2	M3	M4	Minus												
								t4	M2	M3	M4	M5	M6	M8	M10			M12	M16	K
25	1/4	3/8	1.130	.110	.107	.359	.611	.096	.348	.600	.852	1.104	1.356	1.860	2.364	2.868	3.876	.252	.021	
35	3/8	1/2	1.200	.168	.162	.561	.960	.149	.548	.947	1.346	1.745	2.144	2.942	3.740	4.538	6.134	.399	.027	
41	1/2	3/4	1.306	.227	†	†	†	†	†	†	†	†	†	†	†	†	†	†	.009	.032
40	3/4	1	1.312	.284	.275	.841	1.407	.256	.822	1.388	1.954	2.520	3.086	4.218	5.250	6.482	8.746	.566	.009	.035
50	1	1 1/4	1.400	.343	.332	1.045	1.758	.311	1.024	1.737	2.450	3.163	3.876	5.302	6.728	8.154	11.006	.713	.010	.036
60	1 1/4	1 3/4	1.469	.459	.444	1.341	2.238	.418	1.315	2.212	3.108	4.006	4.903	6.697	8.491	10.258	13.873	.897	.011	.036
80	1 3/4	2	1.625	.575	.557	1.700	2.863	.526	1.679	2.832	3.985	5.138	6.291	8.597	10.903	13.209	17.821	1.153	.012	.040
100	2	2 1/4	1.750	.692	.669	2.077	3.484	.633	2.041	3.449	4.857	6.265	7.673	10.489	13.305	16.121	21.753	1.408	.014	.046
120	2 1/4	2 3/4	1.875	.924	.894	2.683	4.472	.848	2.637	4.426	6.215	8.004	9.793	13.371	16.949	20.527	27.179	1.789	.016	.057
140	2 3/4	3	2.000	1.156	.894	2.818	4.742	.848	2.772	4.696	6.620	8.544	10.468	14.316	18.164	22.012	29.816	1.924	.016	.062
160	3	3 1/2	2.125	1.406	1.119	3.424	5.729	1.063	3.368	5.673	7.978	10.283	12.588	17.198	21.808	26.418	35.305	2.305	.019	.067
180	3 1/2	4	2.250	1.656	1.259	3.851	6.443	1.197	3.789	6.381	8.973	11.565	14.157	19.341	24.931	30.521	40.418	2.592	.020	.068
200	4	4 1/2	2.375	1.906	1.344	4.161	6.978	1.278	4.095	6.912	9.729	12.546	15.363	20.997	26.587	32.177	42.864	2.817	.021	.072
240	4 1/2	5	2.500	2.156	1.682	5.140	8.598	1.601	5.059	8.517	11.975	15.433	18.891	25.363	31.943	38.513	50.164	3.458	.025	.087
HEAVY SERIES CHAIN SPROCKETS																				
60H	750	.500	.469	.459	.444	1.472	2.500	.418	1.446	2.474	3.502	4.530	5.558	7.614	9.670	11.726	15.363	1.028	-.011	-.036
80H	1.000	.625	.625	.575	.557	1.840	3.123	.526	1.809	3.092	4.375	5.658	6.941	9.507	12.063	14.619	19.256	1.283	-.012	-.040
100H	1.250	.750	.750	.692	.669	2.208	3.747	.633	2.172	3.711	5.250	6.789	8.328	11.406	14.484	17.562	23.199	1.539	-.014	-.046
120H	1.500	1.000	.875	.924	.894	2.818	4.742	.848	2.772	4.696	6.620	8.544	10.468	14.316	18.164	22.012	29.816	1.924	-.016	-.057
140H	1.750	1.000	1.000	.924	.894	2.949	5.004	.848	2.903	4.958	7.013	9.068	11.123	15.233	19.343	23.453	30.564	2.055	-.016	-.057
160H	2.000	1.250	1.125	1.156	1.119	3.555	5.991	1.063	3.499	5.935	8.371	10.807	13.243	18.115	22.985	28.864	37.753	2.436	-.019	-.062
180H	2.250	1.406	1.406	1.301	1.259	3.982	6.705	1.197	3.920	6.643	9.366	12.089	14.812	20.258	25.628	32.507	42.396	2.723	-.020	-.068
200H	2.500	1.500	1.562	1.389	1.344	4.427	7.510	1.278	4.361	7.444	10.527	13.610	16.693	22.859	29.008	36.157	47.464	3.083	-.021	-.072

† = Not made in multiple strands.

Application Data and Selection Procedure

How to Check Horsepower Rating of Installed Drive

1. Determine the types of driving and driven loads and obtain the proper service factor, as explained in Steps 1 and 2 under Selection Procedures.
2. Find the multiple strand factor, for the number of chain strands in the drive, from the Multiple Strand Factor Table, in Horsepower Tables (Page E-186 thru E-192).
3. From the horsepower rating table for the chain pitch, read the figure under the RPM of the small sprocket and to the right of the column giving number of teeth in the small sprocket.
4. The horsepower this drive can properly transmit is as follows:

$$\text{HORSEPOWER DRIVE CAN TRANSMIT} = \frac{\left(\begin{array}{c} \text{Rating Table} \\ \text{Horsepower} \end{array} \right)}{\text{Service Factor}} \times \left(\begin{array}{c} \text{Multiple Strand} \\ \text{Factor} \end{array} \right)$$

Center Distance

The following general principals should be applied in determining shaft center distances. The center distance must always be greater than one-half the sum of the sprocket outside diameters to avoid interference of teeth. When the speed ratio is greater than 3 to 1, the center distance should be not less than the sum of the sprocket diameters. Chain wrap should be at least 120° of the small sprocket — one-third of the teeth meshing.

Longer center distances give greater chain wrap. For average applications a center distance of 30 to 50 pitches of chain is recommended for best results. For pulsating loads, a center distance of 20 to 30 pitches may be desirable. For center distances of 80 pitches or greater, idlers or chain guides should be used to support the chain. Slightly adjustable center distances will provide chain tension as the chain elongates with wear.

Alignment

Accurate alignment of shafts and sprocket tooth faces provide uniform distribution of the load across the entire chain width and contributes substantially to optimum drive life. Shafting, bearings, and foundations should be suitable to maintain the initial alignment. Periodic maintenance should include an inspection of alignment to insure optimum chain life.

Design Horsepower

When making drive selections consideration is given to the loads imposed on the chain. Service factors based on the type of equipment to be driven (Table I, Page E162) and the type of input power (Table II, Page E162) are used to compensate for these loads.

Horsepower Rating Tables

The horsepower ratings in this catalog apply to lubricated single pitch, single strand precision roller chains, both standard and double pitch roller chain.

The ratings reflect a service factor of 1, a chain length of approximately 100 pitches, use of recommended lubrication methods, and a drive arrangement where two aligned sprockets are mounted on parallel horizontal shafts.

The horsepower ratings relate to the speed of the smaller sprocket and drive selections are made on this basis, whether the drive is speed reducing or speed increasing.

For ratings of multiple strand roller chains refer to Multiple Strand Factor in Horsepower Tables.

Lubrication

It has been shown that a separate wedge of fluid lubricant is formed in operating chain joints much like that formed in journal bearings. Therefore, fluid lubricant must be applied to assure an oil supply to the joints and minimize metal to metal contact. Lubrication, if supplied in sufficient volume, also provides effective cooling and impact damping at the higher speeds. For this reason, it is important that the lubrication recommendations be followed. The horsepower rating tables shown throughout this catalog, apply only to drives lubricated in the manner specified in the tables.

Chain drives should be protected against dirt and moisture and the oil supply kept free of contamination. Periodic oil change is desirable. A good grade of non-detergent petroleum base oil is recommended. Heavy oils and grease are generally too stiff to enter and fill the chain joints.

Application Data and Selection Procedure

Types of Lubrication

There are four basic types of lubrication for chain drives. The recommended type shown in the horsepower rating tables is influenced by chain speed and the amount of power transmitted. These are minimum lubrication requirements and the use of a better type (for example, Type C instead of Type B) is acceptable and may be beneficial. Chain life can vary appreciably depending upon the way the drive is lubricated. The better the lubrication, the longer the chain and sprocket life. For this reason, it is important that the lubrication recommendations be followed when using the rating tables given in this catalog.

Lubrication

TYPE A — Manual Lubrication. Oil applied periodically with brush or spout can.

TYPE B — Oil Bath or Oil Slinger. Oil level maintained in casing at predetermined height.

TYPE C — Oil Stream. Oil supplied by circulating pump inside chain loop on lower span.

NOTE: Drip Lubrication. Oil applied between link plate edges from a drip lubricator and should be used in clean environments only.

Selection of Roller Chain Drives

The following information is necessary for the proper selection and design of Roller Chain Drives:

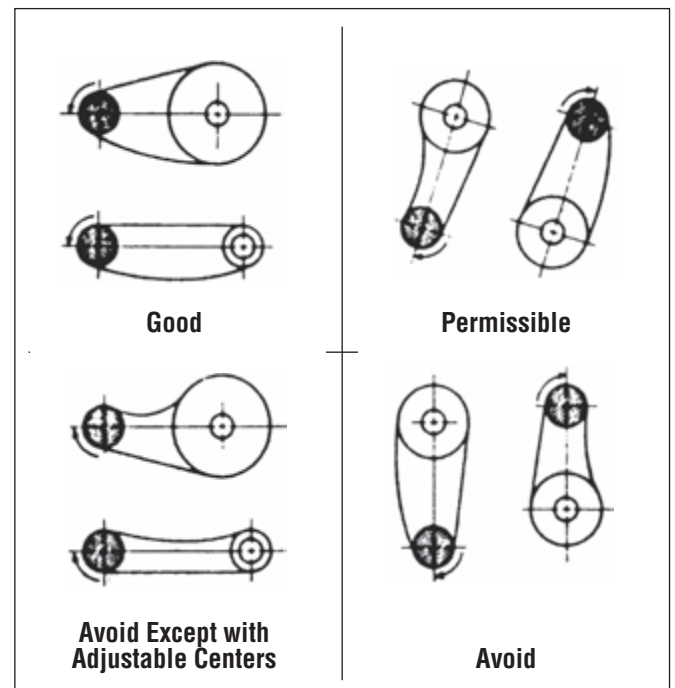
1. Type of input horsepower (electrical motor, internal combustion engine.)
2. Type of equipment to be driven.
3. Horsepower to be transmitted.
4. Full load speed of the fastest running shaft. (R.P.M.)
5. Desired speed of the slow speed shaft. (R.P.M.)
6. Diameters of the driving and driven shafts.
7. Center to center distance of shafts.
8. Position of drive and space limitations.
9. Method of lubrication.
10. Conditions of drive, steady or fluctuating load, hours of operation, lubrication.

Most roller chain drive applications allow considerable latitude in the selection of sprocket sizes and chain pitch, although usually one combination will best fulfill the requirements of power, speed, space limitations and economy.

Chain and Sprocket Selection Procedure Steps:

1. Determine class of driven load.
2. Select service factor.
3. Calculate design horsepower.
4. Select chain pitch.
5. Select number of teeth in small sprocket.
6. Determine number of teeth in larger sprocket.
7. Determine center distance.
8. Calculate chain length.

Drive Positions



Application Data and Selection Procedure

Step I

Service Classification — Table I

Uniform Load

Agitators, Liquid	Generators
Blowers, Centrifugal	Line Shafts, Even Load
Conveyors, Even Load	Machines, Even Load,
Elevators, Even Load	Non-reversing
Fans, Centrifugal	Pumps, Centrifugal

Moderate Shock Load

Beaters	Laundry - Washers
Compressors,	and Tumblers
Centrifugal	Line Shafts, Uneven Load
Conveyors, Uneven	Machines, Pulsating
Load	Load, Non-reversing
Elevators, Uneven Load	Pumps, Reciprocating, Triplex
Grinders, Pulp	Screens, Rotary, Even Load
Kilns and Dryers	Woodworking Machinery

Heavy Shock Load

Brick Machines	Mills, Hammer, Rolling
Compressors	or Drawing
Reciprocating	Presses
Crushers	Pumps, Reciprocating,
Machines, Reversing	Simplex or Duplex
or Impact Loads	

Step II

Service Factor — Table II

SERVICE CLASSIFICATION	TYPE OF INPUT POWER		
	Internal Combustion Engine with Hydraulic Drive	Electric Motor or Turbine	Internal Combustion Engine with Mechanical Drive
Uniform Load	1.0	1.0	1.2
Moderate Shock Load	1.2	1.3	1.4
Heavy Shock Load	1.4	1.5	1.7

Unfavorable Operating Conditions which may be present should be compensated for by adding .2 to the Service Factor for each unfavorable condition. Some of these conditions are listed below:

1. Multiple Shafts — add .2 for each additional shaft.
2. Excessive speed ratios — exceeding 7 to 1.
3. Heavy starting loads with frequent starts and stops.
4. Conditions of high temperatures, unusually abrasive conditions, or circumstances decreasing lubrication effectiveness or not allowing the use of recommended lubrication procedures.

Step III

Determination of Design Horsepower

Determine the design horsepower of the required drive using the following procedure.

1. Determine Service Classification — Table I. Unlisted equipment may be classified by its similarity to a listed type.
2. Using Service Classification and Frequency of Service, select the Service Factor — Table II. Increase the Service Factor by adding compensation for unfavorable operating conditions.
3. Multiply the normal operating horsepower of the drive by the Compensated Service Factor to obtain Service Horsepower.

Step IV

Drive Selection

Using Design Horsepower computed above, use Trial Selection Chart (Horsepower Tables) on page E184-E185, or enter tables of Horsepower Ratings shown on pages E186 thru E192. Select the smallest pitch chain which has the required horsepower rating for a pinion sprocket turning at the specified RPM. Check to be certain the selected sprocket has a listed maximum bore large enough to accommodate the specified shaft. The tables on pages E-158 thru E-159 gives maximum bores for the usual range of driving sprockets.

If the Design Horsepower at the required RPM is greater than the horsepower rating of the largest pitch chain which can operate at that speed, a multiple chain drive should be considered for the application.

Selection of drives to operate at speeds somewhat below the maximum rating will increase the life of the drive and quietness of operation.

Step V

Driving Sprocket

In selecting the driving sprocket **17 teeth are recommended as a minimum** although 15 teeth are quite often used, and as low as 7 teeth can be cut. When the maximum bore of the 17 tooth sprocket will not accommodate the driving shaft, it is necessary to go to a sprocket with a greater number of teeth. Hardened teeth are recommended for sprockets with 25 teeth or less.

Application Data and Selection Procedure

Step VI

Driven Sprocket (Ratio)

The number of teeth selected for the driven sprocket depends upon the driving sprocket chosen and the desired speed of the driven shaft. When space limitations are a factor, the diameter of the driven sprocket sometimes determines the final selection of drive.

The recommended maximum speed ratio is 7 to 1, although higher ratios are occasionally used. It is usually better design, however, for large reductions to use a double reduction drive.

Select the driven sprocket size from the Speed Ratio Table on page E-170 using the required speed ratio and size of driver sprocket.

Step VII

Shaft Centers

May be calculated from the formula on page E-168 where the sprocket diameters and chain length are known.

On many applications the motor base is adjustable, allowing for slight changes in shaft centers. On long centers some form of chain adjuster or take-up is recommended.

Step VIII

Chain Length

On page E-168 is shown a simple method of computing the length of chain necessary for a drive with given sprocket dimensions and center to center distance of shafts. (See chart on page E-169 for length in ft.)

Chain Drive Design Example

To select a roller chain drive from a 10 HP electric motor (1½" shaft) 1200 RPM (1150 under load) to a wood working machine shaft at 300 RPM on 30" centers. Drive conditions — moderate pulsating load, good lubrication, 10 hour day operation.

1. Service class — moderate shock load (Table I).
2. Service factor — 1.3 (Table II).
3. Design HP — $1.3 \times 10 = 13$ DHP.
4. Selection — The Horsepower Ratings on page E-184 show that either of the following combinations may be used.

No. D40-19 Tooth — Smoothest in operation

No. 50-18 Tooth — Lower drive cost

For our purpose we select No. 50 chain and checking the bore find that the 1½" shaft can be accommodated with a stock bored to size sprocket.

The driven sprocket is found as follows:

No. Teeth

Driven

$$\text{Sprocket} = 18 \times \frac{1150}{300} (\text{Ratio}) = 68.99 \text{ or } 69 \text{ Teeth}$$

Since 69 teeth is not a stock size we select 70 teeth. The chain length is calculated as shown on page E-169 and is 142 pitches.

Overhung Load

When a Sprocket is mounted on a reducer shaft, a calculation should be made to determine the overhung load in pounds using formula on page *i-2* in general engineering section.

Engineering Data & Design

Horsepower — equals 33,000 foot pounds per minute, or 550 foot pounds per second. In terms of chain load and speed.

$$\text{HP} = \frac{\text{Working Load} \times \text{Ft. Per Min.}}{33,000}$$

$$\text{or HP} = \frac{\text{Working Load} \times T \times P \times \text{R.P.M.}}{396,000}$$

Where T = number of sprocket teeth
P = chain pitch

Chain Working Load — when the horsepower input is known and the chain working load is desired, this can be calculated as follows:

$$\text{Working Load} = \frac{\text{HP} \times 33,000}{\text{Ft. Per Min.}}$$

$$\text{or} = \frac{\text{HP} \times 396,000}{T \times P \times \text{R.P.M.}}$$

Chain Speed — can be determined from the following formula:

$$\text{Chain Speed (Ft. Per Min.)} = \frac{T \times \text{R.P.M.}}{K}$$

where T = number of sprocket teeth
Constant K (Pitches of Chain Per Foot)

PITCH	3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	1 1/2"	1 3/4"	2"	2 1/2"	3"
K	32	24	19.2	16	12	9.6	8	6.85	6	4.8	4

Approx. Wt./Ft. of Standard Roller Chain

Number	Single	Double	Triple	Quadruple
25	0.08	0.18	0.27	0.35
35	0.23	0.46	0.69	0.92
41	0.28	—	—	—
40	0.41	0.82	1.23	1.64
50	0.69	1.38	2.07	2.76
60	1.04	2.08	3.12	4.16
80	1.77	3.54	5.31	7.08
100	2.59	5.18	7.77	10.36
120	4.05	8.10	12.15	16.20
140	5.10	10.20	15.30	20.40
160	6.85	13.70	20.55	27.40
180	9.30	18.20	27.20	36.30
200	10.20	21.00	31.50	42.00
240	16.90	33.40	50.00	66.50

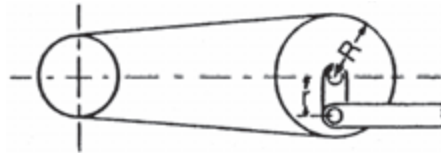
Factor of Safety — is determined as follows:

$$\text{F.S.} = \frac{\text{Chain Ultimate Strength}}{\text{Chain Working Load}}$$

Shaft Torque — Ordinarily is greater for the driven shaft than for the driving shaft due to the difference in sprocket sizes and R.P.M. Torque is usually expressed in inch pounds.

$$\text{Torque (Driving Shaft)} = \frac{\text{HP} \times 63,000}{\text{R.P.M.}}$$

$$\text{Torque (Driven Shaft)} = \text{Working Load} \times R$$



Where a crank arm is used the load transmitted by the arm can be determined as follows:

$$\text{Crank arm Load} = \frac{\text{Driven Shaft Torque}}{r}$$

$$\text{or} = \frac{\text{Chain Working Load} \times R}{r}$$

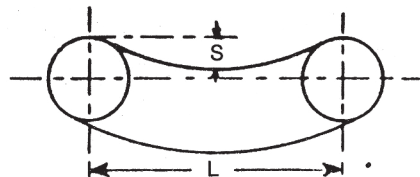
Catenary Tension — imposed by reason of the weight of chain can be approximated as follows:

$$\text{Catenary Tension} = \frac{W \times L^2}{8 \times S} + (W \times S)$$

where W = weight of chain (lbs. per ft.)

S = chain sag (feet) = 2% to 3% of shaft centers approx.

L = Shaft centers in feet.



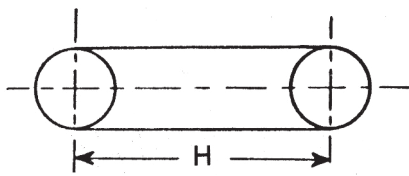
Engineering Data & Design

Conveyor Chains

Chains used in the design of conveyors should be selected on the basis of the **chain pull** imposed by the application and the permissible or **maximum working load** of the chain.

In some instances a larger pitch chain than is necessary may be selected due to the desired attachment spacing, and the effect in this case would be to increase the life of the conveyor.

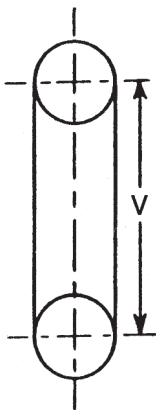
HORIZONTAL CONVEYORS



$$\text{Total pull of chains} = f H (W + P)$$

NOTE: When lower strand of conveyor drags on runway above formula becomes $f H (W + 2P)$.

VERTICAL CONVEYORS



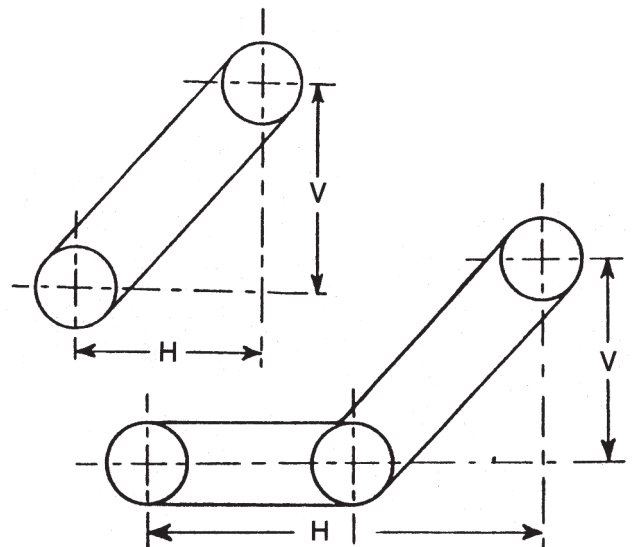
$$\text{Total pull of chains} = V (W + P)$$

- H (feet) = Horizontal projection of conveyor length.
- V (feet) = Vertical projection of conveyor length.
- W (pounds) = Weight of material handled per foot of conveyor length.
- P (pounds) = Weight per foot of all moving conveyor parts (single or two strand).
- f = Coefficient of friction of chain on runway.

Chain Pull

The force or pull required to move a conveyor includes the pull necessary to move the weight of chain and material and the frictional resistance of the chain parts on the runways. The following formulas may be used in calculating the total chain pull. The same formula applies in the case of single or parallel strand chain conveyors, but in the case of parallel strand conveyors, the pull per chain is one-half of the figure calculated from the formula.

INCLINED CONVEYORS



$$\text{Total pull of chains} = f H (W + P) + V (W + P)$$

NOTE: When lower strand of conveyor drags on runway the factor P ($f H - V$) should be added to above formula unless V is greater than $f H$.

Value of Coefficient F

Sliding steel on iron or steel.....	25%
Rolling friction	15%

(If material or other than the usual chain parts are in contact with the runway, the coefficient should be increased to compensate for the added resistance.)

Chain Drive Selection

Step 1:

Prime Driver:	_____	_____	_____
	Type & Description	Rated - H.P.	R.P.M.
Driven Comp:	_____	_____	_____
	Type & Description	R.P.M.	Hours/Day
Center Distance:	_____ "	_____ "	_____ "
	Maximum	Minimum	Nominal

Step 2: _____
Service Classification (Step I Page E-162)

Step 3: _____ (Include additions to basic factor)
Service Factor (Step II Page E-162)

Step 4: Determine Design H.P. _____ × _____ = _____
H.P. Service Factor H.P. Design

Step 5: Speed Ratio _____ ÷ _____ = _____
RPM Faster Shaft RPM Slower Shaft Ratio (E-172)

Step 6: From selector chart, select proper chain pitch & driver sprocket.
(check *Martin* Catalog page E-184)

A. _____ B. _____
Chain Pitch Driver Sprocket
Maximum Bore
(Pages E-16 thru E-112)

Step 7: From ratio chart, select proper driven sprocket.

C. _____
Driven Sprocket Maximum Bore

Step 8: Check manufacturer's catalog for maximum bore recommended & final stock selection. (Pages E-16 thru E-112)

Step 9: Review Horsepower table for type of lubrication required.

OR TYPE: A B C (Pages E-161 and E-186 thru E-192)
TYPE: 1 2 3 (Pages E-191 and E-192)

Step 10: _____ ÷ _____ = _____
Center Dist. (inches) Chain Pitch Center Dist. (pitches)

Step 11: Formula for chain length = $2C + \frac{N+n}{2} + \frac{A}{C}$

Where:

- C = Center Dist. in pitches
- N = Number of teeth in Driven Sprocket
- n = Number of teeth in Driver Sprocket
- A = Value from table tabulated for N - n values

Brinell, Rockwell and Scleroscope Hardness Numbers with Corresponding Tensile Strength

Brinell 10 MM Ball 3,000 Kg.	Rockwell "C" 120 Cone 150 Kg.	Scleroscope Shore Model C	Tensile Strength 1000 Lb. Per Sq. In.
745	68	100	368
712	66	95	352
682	64	91	337
653	62	87	324
627	60	84	311
601	58	81	298
578	57	78	287
555	55	75	276
534	53	72	266
514	52	70	256
495	50	67	247
477	49	65	238
461	47	63	229
444	46	61	220
429	45	59	212
415	44	57	204
401	42	55	196
388	41	54	189
375	40	52	182
362	38	51	176
351	37	49	170
341	36	48	165
331	35	46	160
321	34	45	155
311	33	44	150
302	32	43	146
293	31	42	142
285	30	40	138
277	29	39	134
269	28	38	131
262	26	37	128
255	25	37	125
248	24	36	122
241	23	35	119
235	22	34	116
229	21	33	113
223	20	32	110
	Rockwell "B" 1/16" Ball 100 Kg.		
217	97	31	107
212	96	31	104
207	95	30	101
202	94	30	99
197	93	29	97
192	92	28	95
187	91	28	93
183	90	27	91
179	89	27	89
174	88	26	87

Note: Hardening cannot be accurately checked with a file — stationary or portable hardness testers should be used for conclusive results.

Material

All *Martin* stock sprockets are made of quality steel poured to our specifications.

Bar size sprockets normally include sizes up to 7" or 7½" in diameter type "B", "BS", "QD", "TB" single, double & triple width. And can easily be electrical induction or flame hardened — to Rockwell "C" 40 to 50.

Plate sprockets normally include sizes 7½" in diameter and larger type "B", "BS", "C", "QD", "TB" single, double, & triple width fabricated and type "A" all diameters. This material would have 35 to 40 points of carbon and can be induction or flame hardened to Rockwell "C" 30 to 45. Degree of hardness obtainable and method depends on size of sprocket.

Special quality steel can be used for large quantities or made-to-order sprockets if specified.

Hardening Recommendations

Hardened teeth substantially increases sprocket life and is recommended under conditions listed below:

1. Pinion or driver where the reduction is 4:1 or greater.
2. Slow speed drives (100 FPM or less).
3. Where safety factor is less than standard.
4. Unusual abrasive conditions.

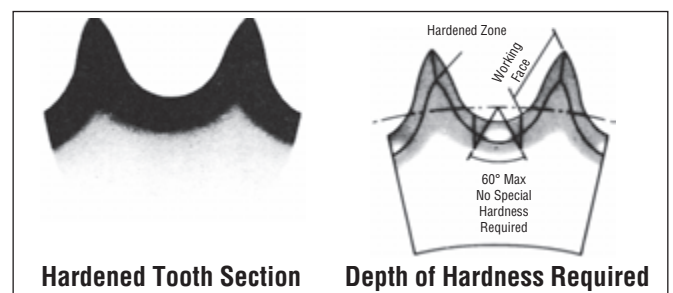
Degree of hardness — this is governed by conditions prevailing each application — for stock sprockets these general suggestions may be used as guide lines:

1. Rockwell "C" 35 to 50 pinion or driver.
2. Rockwell "C" 25 to 40 larger diameter or driver sprockets.

Induction or flame hardening will be used as best suited to the individual application. The diameter and pitch of the sprocket govern the method used.

Caution should be used to avoid "file hardness" (Rockwell C 62 and above) as it is not recommended for sprockets due to brittleness.

Depth of hardening should be limited so as to provide case only on the wear surfaces with a tough resilient core to absorb shock — (see illustration tooth section).



Hardened Tooth Section

Depth of Hardness Required

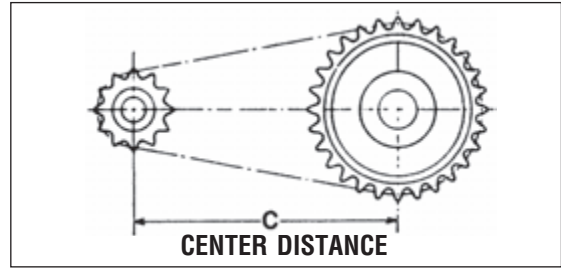
Chain Length Calculation

The following equation may be used to determine the chain length required for any two-sprocket drive.

$$L = 2C + \frac{N + n}{2} + \frac{.1013 (N - n)^2}{4C} \text{ or substituting A for } \frac{.1013 (N - n)^2}{4}, L = 2C + \frac{N + n}{2} + \frac{A}{C}$$

where:

- C = Shaft Center Distance in pitches,
- L = Length of chain in pitches,
- N = Number of teeth in larger sprocket,
- n = Number of teeth in smaller sprocket,
- π = 3.1416,
- A = Value from table below tabulated for values of N-n,
- P = Pitch of chain.



NOTE: The method described with above table of constants is sufficiently accurate for practically all commercial chain drives. When, however, a high degree of precision is necessary, especially if the drive is vertical, the following formula is useful in determining the exact centers for chain length already determined.

Calculation of shaft centers

The following formula is useful in determining the approximate centers in inches for chain lengths in pitches already determined.

$$C = \frac{P}{8} \left\{ 2L - N - n + \sqrt{(2L - N - n)^2 - 0.810 (N - n)^2} \right\}$$

Values of A For Chain Length Calculation

N-n	A	N-n	A	N-n	A	N-n	A	N-n	A	N-n	A
1	0.03	32	25.94	63	100.54	94	223.82	125	395.79	156	616.44
2	0.10	33	27.58	64	103.75	95	228.61	126	402.14	157	624.37
3	0.23	34	29.28	65	107.02	96	233.44	127	408.55	158	632.35
4	0.41	35	31.03	66	110.34	97	238.33	128	415.01	159	640.38
5	0.63	36	32.83	67	113.71	98	243.27	129	421.52	160	648.46
6	0.91	37	34.68	68	117.13	99	248.26	130	428.08	161	656.59
7	1.24	38	36.58	69	120.60	100	253.30	131	434.69	162	664.77
8	1.62	39	38.53	70	124.12	101	258.39	132	441.36	163	673.00
9	2.05	40	40.53	71	127.69	102	263.54	133	448.07	164	681.28
10	2.53	41	42.58	72	131.31	103	268.73	134	454.83	165	689.62
11	3.06	42	44.68	73	134.99	104	273.97	135	461.64	166	698.00
12	3.65	43	46.84	74	138.71	105	279.27	136	468.51	167	706.44
13	4.28	44	49.04	75	142.48	106	284.67	137	475.42	168	714.92
14	4.96	45	51.29	76	146.31	107	290.01	138	482.39	169	723.46
15	5.70	46	53.60	77	150.18	108	295.45	139	489.41	170	732.05
16	6.48	47	55.95	78	154.11	109	300.95	140	496.47	171	740.68
17	7.32	48	58.36	79	158.09	110	306.50	141	503.59	172	749.37
18	8.21	49	60.82	80	162.11	111	312.09	142	510.76	173	758.11
19	9.14	50	63.33	81	166.19	112	317.74	143	517.98	174	766.90
20	10.13	51	65.88	82	170.32	113	323.44	144	525.25	175	775.74
21	11.17	52	68.49	83	174.50	114	329.19	145	532.57	176	784.63
22	12.26	53	71.15	84	178.73	115	334.99	146	539.94	177	793.57
23	13.40	54	73.86	85	183.01	116	340.84	147	547.36	178	802.57
24	14.59	55	76.62	86	187.34	117	346.75	148	554.83	179	811.61
25	15.83	56	79.44	87	191.73	118	352.70	149	562.36	180	820.70
26	17.12	57	82.30	88	196.16	119	358.70	150	569.93	181	829.85
27	18.47	58	85.21	89	200.64	120	364.76	151	577.56	182	839.04
28	19.86	59	88.17	90	205.18	121	370.86	152	585.23	183	848.29
29	21.30	60	91.19	91	209.76	122	377.02	153	592.96	184	857.58
30	22.80	61	94.25	92	214.40	123	383.22	154	600.73	185	866.93
31	24.34	62	97.37	93	219.08	124	389.48	155	608.56		

Speed Ratios For Sprocket Combinations Driver Sprocket Teeth

		9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
DRIVEN SPROCKET TEETH	9	1.00																		
	10	1.11	1.00																	
	11	1.22	1.10	1.00																
	12	1.33	1.20	1.09	1.00															
	13	1.44	1.30	1.18	1.08	1.00														
	14	1.56	1.40	1.27	1.17	1.08	1.00													
	15	1.67	1.50	1.36	1.25	1.15	1.07	1.00												
	16	1.78	1.60	1.45	1.33	1.23	1.14	1.07	1.00											
	17	1.89	1.70	1.55	1.42	1.31	1.21	1.13	1.06	1.00										
	18	2.00	1.80	1.64	1.50	1.38	1.29	1.20	1.13	1.06	1.00									
	19	2.11	1.90	1.73	1.58	1.46	1.36	1.27	1.19	1.12	1.06	1.00								
	20	2.22	2.00	1.82	1.67	1.54	1.43	1.33	1.25	1.18	1.11	1.05	1.00							
	21	2.33	2.10	1.91	1.75	1.61	1.50	1.40	1.31	1.23	1.17	1.10	1.05	1.00						
	22	2.44	2.20	2.00	1.83	1.69	1.57	1.47	1.38	1.29	1.22	1.16	1.10	1.05	1.00					
	23	2.56	2.30	2.09	1.92	1.77	1.64	1.53	1.44	1.35	1.28	1.21	1.15	1.09	1.04	1.00				
	24	2.67	2.40	2.18	2.00	1.85	1.71	1.60	1.50	1.41	1.33	1.26	1.20	1.14	1.09	1.04	1.00			
	25	2.78	2.50	2.27	2.08	1.92	1.79	1.67	1.56	1.47	1.39	1.32	1.25	1.19	1.14	1.09	1.04	1.00		
	26	2.89	2.60	2.36	2.17	2.00	1.86	1.73	1.63	1.53	1.45	1.37	1.30	1.24	1.18	1.13	1.08	1.04	1.00	
	27	3.00	2.70	2.45	2.25	2.08	1.93	1.80	1.69	1.59	1.50	1.42	1.35	1.29	1.23	1.17	1.12	1.08	1.04	1.00
	28	3.11	2.80	2.54	2.33	2.15	2.00	1.87	1.75	1.65	1.56	1.47	1.40	1.33	1.27	1.22	1.17	1.12	1.08	1.04
	29	3.22	2.90	2.64	2.42	2.23	2.07	1.93	1.81	1.71	1.61	1.53	1.45	1.38	1.32	1.26	1.21	1.16	1.12	1.08
	30	3.33	3.00	2.73	2.50	2.31	2.14	2.00	1.88	1.76	1.67	1.58	1.50	1.43	1.36	1.31	1.25	1.20	1.15	1.11
	31	3.44	3.10	2.82	2.58	2.38	2.21	2.07	1.94	1.82	1.72	1.63	1.55	1.48	1.41	1.35	1.29	1.24	1.19	1.15
	32	3.56	3.20	2.91	2.67	2.46	2.28	2.13	2.00	1.88	1.78	1.68	1.60	1.52	1.45	1.39	1.33	1.28	1.23	1.19
	33	3.67	3.30	3.00	2.75	2.54	2.36	2.20	2.06	1.94	1.83	1.74	1.65	1.57	1.50	1.43	1.38	1.32	1.27	1.23
	34	3.78	3.40	3.09	2.83	2.62	2.43	2.27	2.13	2.00	1.89	1.79	1.70	1.62	1.55	1.48	1.42	1.36	1.31	1.27
	35	3.89	3.50	3.18	2.92	2.69	2.50	2.33	2.19	2.06	1.95	1.84	1.75	1.67	1.59	1.52	1.46	1.40	1.34	1.30
	36	4.00	3.60	3.27	3.00	2.77	2.57	2.40	2.25	2.12	2.00	1.89	1.80	1.71	1.63	1.57	1.50	1.44	1.38	1.34
	37	4.11	3.70	3.36	3.08	2.85	2.64	2.47	2.31	2.18	2.06	1.95	1.85	1.76	1.68	1.61	1.54	1.48	1.42	1.38
	38	4.22	3.80	3.45	3.17	2.92	2.71	2.53	2.38	2.24	2.11	2.00	1.90	1.81	1.73	1.65	1.58	1.52	1.46	1.42
	39	4.33	3.90	3.55	3.25	3.00	2.79	2.60	2.44	2.29	2.17	2.05	1.95	1.86	1.77	1.70	1.63	1.56	1.50	1.46
	40	4.44	4.00	3.64	3.33	3.08	2.86	2.67	2.50	2.35	2.22	2.10	2.00	1.90	1.82	1.74	1.67	1.60	1.54	1.50
	41	4.56	4.10	3.73	3.42	3.15	2.93	2.73	2.56	2.41	2.28	2.16	2.05	1.95	1.86	1.78	1.71	1.64	1.58	1.54
	42	4.67	4.20	3.82	3.50	3.23	3.00	2.80	2.63	2.47	2.34	2.21	2.10	2.00	1.91	1.83	1.75	1.68	1.61	1.57
	43	4.78	4.30	3.91	3.58	3.31	3.07	2.87	2.69	2.53	2.39	2.26	2.15	2.05	1.95	1.87	1.79	1.72	1.65	1.61
	44	4.89	4.40	4.00	3.67	3.39	3.14	2.93	2.75	2.59	2.44	2.32	2.20	2.10	2.00	1.91	1.83	1.76	1.69	1.65
	45	5.00	4.50	4.09	3.75	3.46	3.21	3.00	2.81	2.65	2.50	2.37	2.25	2.14	2.04	1.96	1.88	1.80	1.73	1.69
	46	5.11	4.60	4.18	3.83	3.54	3.29	3.07	2.88	2.71	2.56	2.42	2.30	2.19	2.09	2.00	1.92	1.84	1.77	1.73
	47	5.22	4.70	4.27	3.92	3.62	3.36	3.13	2.94	2.76	2.61	2.47	2.35	2.24	2.14	2.04	1.96	1.88	1.81	1.77
	48	5.33	4.80	4.36	4.00	3.69	3.43	3.20	3.00	2.82	2.67	2.52	2.40	2.28	2.18	2.09	2.00	1.92	1.84	1.80
	49	5.44	4.90	4.45	4.08	3.77	3.50	3.27	3.06	2.88	2.72	2.58	2.45	2.33	2.23	2.13	2.04	1.96	1.88	1.84
	50	5.56	5.00	4.55	4.17	3.85	3.57	3.33	3.13	2.94	2.78	2.63	2.50	2.38	2.27	2.17	2.08	2.00	1.92	1.88
	51	5.67	5.10	4.64	4.25	3.92	3.64	3.40	3.19	3.00	2.83	2.68	2.55	2.43	2.32	2.22	2.13	2.04	1.96	1.92
	52	5.78	5.20	4.73	4.33	4.00	3.71	3.47	3.25	3.06	2.89	2.74	2.60	2.48	2.36	2.26	2.17	2.08	2.00	1.96
	53	5.89	5.30	4.82	4.42	4.08	3.79	3.53	3.31	3.12	2.94	2.79	2.65	2.52	2.41	2.30	2.21	2.12	2.04	2.00
	54	6.00	5.40	4.91	4.50	4.15	3.86	3.60	3.38	3.18	3.00	2.84	2.70	2.57	2.45	2.35	2.25	2.16	2.07	2.04
	55	6.11	5.50	5.00	4.58	4.23	3.93	3.67	3.44	3.24	3.06	2.90	2.75	2.62	2.50	2.39	2.29	2.20	2.12	2.08
	56	6.22	5.60	5.09	4.67	4.31	4.00	3.73	3.50	3.29	3.11	2.95	2.80	2.67	2.55	2.43	2.33	2.24	2.15	2.12
	57	6.33	5.70	5.18	4.75	4.38	4.07	3.80	3.56	3.35	3.17	3.00	2.85	2.71	2.59	2.48	2.38	2.28	2.19	2.16
	58	6.44	5.80	5.27	4.83	4.46	4.14	3.87	3.63	3.41	3.22	3.05	2.90	2.76	2.64	2.52	2.42	2.32	2.23	2.19
	59	6.56	5.90	5.36	4.92	4.54	4.21	3.93	3.69	3.47	3.28	3.11	2.95	2.81	2.68	2.57	2.46	2.36	2.27	2.24
	60	6.67	6.00	5.45	5.00	4.61	4.28	4.00	3.75	3.53	3.34	3.16	3.00	2.86	2.72	2.61	2.50	2.40	2.30	2.27
	68	7.55	6.80	6.18	5.66	5.23	4.86	4.54	4.25	4.00	3.78	3.58	3.40	3.24	3.09	2.96	2.84	2.72	2.61	2.58
	70	7.78	7.00	6.36	5.83	5.38	5.00	4.67	4.38	4.12	3.89	3.68	3.50	3.33	3.18	3.05	2.92	2.80	2.69	2.66
	72	8.00	7.20	6.54	6.00	5.54	5.14	4.80	4.50	4.24	4.00	3.79	3.60	3.43	3.27	3.13	3.00	2.88	2.77	2.74
	76			6.91	6.33	5.84	5.43	5.07	4.75	4.47	4.23	4.00	3.80	3.62	3.45	3.31	3.17	3.04	2.92	2.89
	80			7.27	6.66	6.15	5.71	5.34	5.00	4.70	4.45	4.21	4.00	3.81	3.63	3.48	3.34	3.20	3.07	3.04
	84				7.00	6.46	6.00	5.60	5.25	4.94	4.67	4.42	4.20	4.00	3.81	3.65	3.50	3.36	3.23	3.20
	95					7.31	6.78	6.33	5.94	5.59	5.28	5.00	4.75	4.52	4.32	4.13	3.96	3.80	3.65	3.62
	96					7.38	6.85	6.40	6.00	5.64	5.34	5.05	4.80	4.57	4.36	4.18	4.00	3.84	3.69	3.66
	102						7.28	6.80	6.38	6.00	5.67	5.37	5.10	4.86	4.63	4.44	4.25	4.08	3.92	3.89
	112								7.00	6.59	6.23	5.89	5.60	5.33	5.08	4.87	4.67	4.48	4.30	4.27

Martin stock sprockets in pitches No. 40 through No. 100 are available with 8 to 60 teeth inclusive and in all common larger sizes for all pitches.

ROLLER CHAIN SPROCKET DIAMETERS

No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter
6	0.500	0.583	0.370	71	5.652	5.796	5.521	136	10.823	10.970	10.693
7	0.576	0.669	0.432	72	5.732	5.876	5.602	137	10.903	11.050	10.772
8	0.653	0.754	0.523	73	5.811	5.956	5.680	138	10.983	11.130	10.853
9	0.731	0.837	0.591	74	5.891	6.035	5.761	139	11.062	11.209	10.932
10	0.809	0.919	0.679	75	5.970	6.115	5.839	140	11.142	11.289	11.012
11	0.887	1.002	0.748	76	6.050	6.195	5.920	141	11.221	11.369	11.091
12	0.966	1.083	0.836	77	6.129	6.274	5.998	142	11.301	11.448	11.171
13	1.045	1.167	0.907	78	6.209	6.354	6.079	143	11.380	11.528	11.250
14	1.124	1.246	0.994	79	6.288	6.433	6.157	144	11.460	11.607	11.330
15	1.203	1.326	1.066	80	6.368	6.513	6.238	145	11.540	11.687	11.409
16	1.282	1.407	1.152	81	6.448	6.593	6.317	146	11.619	11.767	11.489
17	1.361	1.487	1.225	82	6.527	6.672	6.397	147	11.699	11.846	11.568
18	1.440	1.568	1.310	83	6.607	6.752	6.476	148	11.779	11.926	11.649
19	1.519	1.648	1.383	84	6.686	6.832	6.556	149	11.858	12.005	11.727
20	1.598	1.729	1.468	85	6.766	6.911	6.635	150	11.938	12.084	11.807
21	1.678	1.809	1.543	86	6.845	6.991	6.715	151	12.017	12.164	11.886
22	1.757	1.889	1.627	87	6.925	7.070	6.794	152	12.097	12.244	11.966
23	1.836	1.969	1.702	88	7.004	7.150	6.874	153	12.176	12.323	12.045
24	1.915	2.049	1.785	89	7.084	7.230	6.953	154	12.256	12.403	12.125
25	1.995	2.129	1.861	90	7.164	7.309	7.034	155	12.335	12.482	12.204
26	2.074	2.209	1.944	91	7.243	7.389	7.112	156	12.415	12.562	12.284
27	2.154	2.289	2.020	92	7.323	7.468	7.193	157	12.494	12.641	12.363
28	2.233	2.369	2.103	93	7.402	7.548	7.271	158	12.574	12.721	12.444
29	2.312	2.449	2.179	94	7.482	7.628	7.352	159	12.654	12.801	12.523
30	2.392	2.529	2.262	95	7.561	7.707	7.430	160	12.733	12.881	12.603
31	2.471	2.609	2.338	96	7.641	7.787	7.511	161	12.813	12.960	12.682
32	2.551	2.688	2.421	97	7.720	7.866	7.589	162	12.893	13.039	12.762
33	2.630	2.768	2.497	98	7.800	7.946	7.670	163	12.972	13.119	12.841
34	2.710	2.848	2.580	99	7.880	8.026	7.749	164	13.051	13.199	12.921
35	2.789	2.928	2.656	100	7.959	8.105	7.829	165	13.131	13.278	13.000
36	2.869	3.008	2.739	101	8.039	8.185	7.908	166	13.211	13.357	13.080
37	2.948	3.087	2.815	102	8.118	8.264	7.988	167	13.290	13.437	13.159
38	3.028	3.167	2.898	103	8.198	8.344	8.067	168	13.370	13.517	13.239
39	3.107	3.247	2.975	104	8.277	8.424	8.147	169	13.450	13.597	13.318
40	3.187	3.327	3.057	105	8.357	8.503	8.226	170	13.529	13.676	13.398
41	3.266	3.406	3.134	106	8.437	8.583	8.307	171	13.608	13.756	13.477
42	3.346	3.486	3.216	107	8.516	8.662	8.385	172	13.688	13.835	13.558
43	3.425	3.566	3.293	108	8.596	8.742	8.466	173	13.768	13.915	13.637
44	3.505	3.646	3.375	109	8.675	8.822	8.544	174	13.847	13.995	13.717
45	3.584	3.725	3.452	110	8.755	8.901	8.625	175	13.927	14.074	13.796
46	3.664	3.805	3.534	111	8.834	8.981	8.703	176	14.006	14.154	13.876
47	3.743	3.885	3.611	112	8.914	9.060	8.784	177	14.086	14.233	13.955
48	3.823	3.964	3.693	113	8.994	9.140	8.863	178	14.166	14.313	14.035
49	3.902	4.044	3.770	114	9.073	9.220	8.943	179	14.245	14.392	14.114
50	3.982	4.124	3.852	115	9.153	9.299	9.022	180	14.325	14.472	14.195
51	4.061	4.203	3.929	116	9.232	9.379	9.102	181	14.404	14.551	14.273
52	4.141	4.283	4.011	117	9.312	9.458	9.181	182	14.484	14.631	14.353
53	4.220	4.363	4.088	118	9.391	9.538	9.261	183	14.564	14.711	14.433
54	4.300	4.442	4.170	119	9.471	9.618	9.340	184	14.643	14.790	14.513
55	4.379	4.522	4.247	120	9.550	9.697	9.420	185	14.722	14.870	14.591
56	4.459	4.602	4.329	121	9.630	9.777	9.499	186	14.803	14.949	14.672
57	4.538	4.681	4.407	122	9.709	9.856	9.579	187	14.882	15.029	14.751
58	4.618	4.761	4.488	123	9.789	9.936	9.658	188	14.961	15.109	14.831
59	4.697	4.841	4.566	124	9.869	10.016	9.739	189	15.041	15.188	14.910
60	4.777	4.920	4.647	125	9.949	10.095	9.818	190	15.120	15.268	14.990
61	4.857	5.000	4.725	126	10.028	10.175	9.898	191	15.200	15.347	15.069
62	4.936	5.080	4.806	127	10.108	10.255	9.977	192	15.279	15.427	15.149
63	5.016	5.159	4.884	128	10.187	10.334	10.057	193	15.359	15.507	15.228
64	5.095	5.239	4.965	129	10.267	10.414	10.136	194	15.439	15.586	15.308
65	5.175	5.319	5.044	130	10.346	10.493	10.216	195	15.518	15.666	15.387
66	5.254	5.398	5.124	131	10.426	10.573	10.295	196	15.598	15.745	15.467
67	5.334	5.478	5.203	132	10.505	10.652	10.375	197	15.678	15.824	15.547
68	5.413	5.558	5.283	133	10.585	10.732	10.454	198	15.757	15.904	15.626
69	5.493	5.637	5.362	134	10.664	10.811	10.534	199	15.837	15.984	15.706
70	5.572	5.717	5.442	135	10.744	10.891	10.613	200	15.916	16.064	15.786

Odd tooth "bottom diameters" equal pitch diameters minus .130".

No. 35
3/8" Pitch

**Sprocket
Diameter**

Martin

ROLLER CHAIN SPROCKET DIAMETERS

No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter
5	0.638	0.741	0.407	71	8.478	8.694	8.276	136	16.235	16.456	16.035
6	0.750	0.875	0.550	72	8.597	8.814	8.397	137	16.355	16.575	16.154
7	0.864	1.004	0.643	73	8.717	8.933	8.514	138	16.474	16.695	16.274
8	9.80	1.130	0.780	74	8.836	9.053	8.636	139	16.593	16.814	16.392
9	1.097	1.256	0.880	75	8.955	9.172	8.753	140	16.713	16.934	16.513
10	1.214	1.379	1.014	76	9.074	9.292	8.874	141	16.832	17.053	16.631
11	1.331	1.502	1.117	77	9.194	9.411	8.992	142	16.952	17.172	16.752
12	1.449	1.625	1.249	78	9.313	9.531	9.113	143	17.071	17.292	16.870
13	1.567	1.746	1.356	79	9.432	9.650	9.231	144	17.190	17.411	16.990
14	1.685	1.868	1.485	80	9.552	9.770	9.352	145	17.309	17.531	17.108
15	1.804	1.989	1.594	81	9.671	9.889	9.469	146	17.429	17.650	17.229
16	1.922	2.110	1.722	82	9.791	10.008	9.591	147	17.548	17.769	17.347
17	2.041	2.231	1.832	83	9.910	10.128	9.708	148	17.667	17.889	17.467
18	2.160	2.352	1.960	84	10.029	10.247	9.829	149	17.787	18.008	17.586
19	2.279	2.472	2.071	85	10.148	10.367	9.947	150	17.906	18.128	17.706
20	2.397	2.593	2.197	86	10.268	10.486	10.068	151	18.026	18.247	17.825
21	2.516	2.713	2.309	87	10.387	10.605	10.285	152	18.145	18.366	17.945
22	2.635	2.833	2.435	88	10.506	10.725	10.306	153	18.264	18.486	18.063
23	2.754	2.954	2.548	89	10.626	10.844	10.424	154	18.384	18.605	18.184
24	2.873	3.074	2.673	90	10.745	10.964	10.545	155	18.503	18.724	18.302
25	2.992	3.194	2.786	91	10.865	11.083	10.663	156	18.623	18.844	18.423
26	3.111	3.314	2.911	92	10.984	11.202	10.784	157	18.742	18.963	18.541
27	3.230	3.434	3.025	93	11.103	11.322	10.902	158	18.861	19.082	18.661
28	3.349	3.553	3.149	94	11.223	11.441	11.023	159	18.981	19.202	18.780
29	3.468	3.673	3.263	95	11.342	11.561	11.140	160	19.100	19.321	18.900
30	3.588	3.793	3.388	96	11.461	11.680	11.261	161	19.219	19.440	19.018
31	3.707	3.913	3.502	97	11.581	11.799	11.379	162	19.338	19.560	19.138
32	3.826	4.032	3.626	98	11.700	11.919	11.500	163	19.458	19.679	19.257
33	3.945	4.152	3.741	99	11.819	12.038	11.618	164	19.577	19.799	19.377
34	4.064	4.272	3.864	100	11.939	12.158	11.739	165	19.697	19.918	19.496
35	4.184	4.392	3.979	101	12.058	12.277	11.856	166	19.816	20.037	19.616
36	4.303	4.511	4.103	102	12.177	12.396	11.977	167	19.935	20.090	19.734
37	4.422	4.631	4.218	103	12.297	12.516	12.095	168	20.055	20.276	19.855
38	4.541	4.751	4.341	104	12.416	12.635	12.216	169	20.174	20.396	19.973
39	4.661	4.870	4.457	105	12.536	12.755	12.334	170	20.294	20.515	20.094
40	4.780	4.990	4.580	106	12.655	12.874	12.455	171	20.413	20.634	20.212
41	4.899	5.109	4.695	107	12.774	12.993	12.573	172	20.532	20.754	20.332
42	5.018	5.229	4.818	108	12.893	13.113	12.693	173	20.652	20.873	20.451
43	5.138	5.349	4.934	109	13.013	13.232	12.811	174	20.771	20.993	20.571
44	5.257	5.468	5.057	110	13.132	13.352	12.932	175	20.890	21.112	20.689
45	5.376	5.588	5.173	111	13.251	13.471	13.050	176	21.010	21.231	20.810
46	5.495	5.707	5.295	112	13.371	13.590	13.171	177	21.129	21.351	20.928
47	5.615	5.827	5.411	113	13.490	13.710	13.289	178	21.248	21.470	21.048
48	5.734	5.946	5.534	114	13.610	13.829	13.410	179	21.368	21.589	21.167
49	5.853	6.066	5.650	115	13.729	13.949	13.528	180	21.487	21.709	21.287
50	5.972	6.186	5.772	116	13.848	14.068	13.648	181	21.606	21.828	21.406
51	6.092	6.305	5.889	117	13.968	14.187	13.766	182	21.726	21.948	21.526
52	6.211	6.425	6.011	118	14.087	14.307	13.887	183	21.845	22.067	21.644
53	6.330	6.544	6.127	119	14.206	14.426	14.005	184	21.965	22.186	21.765
54	6.449	6.663	6.249	120	14.326	14.546	14.126	185	22.084	22.306	21.883
55	6.569	6.783	6.366	121	14.445	14.665	14.244	186	22.203	22.425	22.003
56	6.688	6.903	6.488	122	14.564	14.784	14.364	187	22.323	22.544	22.122
57	6.807	7.022	6.605	123	14.684	14.904	14.482	188	22.442	22.664	22.242
58	6.927	7.142	6.727	124	14.803	15.023	14.603	189	22.561	22.783	22.360
59	7.046	7.261	6.843	125	14.922	15.143	14.721	190	22.681	22.902	22.481
60	7.165	7.380	6.965	126	15.042	15.262	14.842	191	22.800	23.022	22.599
61	7.285	7.500	7.082	127	15.161	15.381	14.960	192	22.919	23.141	22.719
62	7.404	7.619	7.204	128	15.281	15.501	15.081	193	23.039	23.261	22.838
63	7.523	7.739	7.321	129	15.400	15.620	15.199	194	23.158	23.380	22.958
64	7.643	7.859	7.443	130	15.519	15.740	15.319	195	23.277	23.499	23.177
65	7.762	7.978	7.560	131	15.639	15.859	15.437	196	23.397	23.619	23.197
66	7.881	8.097	7.681	132	15.758	15.978	15.558	197	23.516	23.738	23.315
67	8.001	8.217	7.798	133	15.877	16.098	15.676	198	23.636	23.858	23.436
68	8.120	8.336	7.920	134	15.996	16.217	15.796	199	23.755	23.977	23.554
69	8.239	8.456	8.037	135	16.116	16.337	15.915	200	23.874	24.096	23.674
70	8.358	8.575	8.158								



Sprocket Diameter

No. 40 1/2" Pitch

ROLLER CHAIN SPROCKET DIAMETERS

No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter
5	0.851	0.988	0.497	71	11.304	11.592	10.988	136	21.647	21.941	21.334
6	1.000	1.166	0.688	72	11.463	11.752	11.151	137	21.806	22.100	21.492
7	1.152	1.338	0.812	73	11.622	11.911	11.306	138	21.965	22.259	21.653
8	1.307	1.507	0.995	74	11.781	12.070	11.468	139	22.124	22.419	21.810
9	1.462	1.674	1.127	75	11.940	12.229	11.625	140	22.284	22.578	21.971
10	1.618	1.839	1.305	76	12.099	12.389	11.786	141	22.442	22.737	22.129
11	1.775	2.003	1.444	77	12.258	12.548	11.943	142	22.602	22.896	22.289
12	1.932	2.166	1.614	78	12.417	12.707	12.105	143	22.761	23.055	22.447
13	2.089	2.328	1.761	79	12.576	12.866	12.261	144	22.920	23.214	22.607
14	2.247	2.490	1.934	80	12.736	13.026	12.423	145	23.079	23.374	22.765
15	2.405	2.652	2.079	81	12.895	13.185	12.580	146	23.238	23.533	22.926
16	2.563	2.814	2.250	82	13.054	13.344	12.742	147	23.398	23.692	23.088
17	2.721	2.974	2.397	83	13.213	13.503	12.898	148	23.557	23.851	23.244
18	2.879	3.136	2.567	84	13.372	13.663	13.059	149	23.716	24.010	23.402
19	3.038	3.292	2.715	85	13.531	13.822	13.216	150	23.875	24.170	23.562
20	3.196	3.457	2.883	86	13.690	13.981	13.373	151	24.034	24.329	23.720
21	3.355	3.618	3.033	87	13.849	14.140	13.534	152	24.193	24.488	23.880
22	3.513	3.778	3.201	88	14.009	14.299	13.696	153	24.352	24.647	24.038
23	3.672	3.938	3.351	89	14.168	14.459	13.853	154	24.512	24.806	24.199
24	3.831	4.098	3.518	90	14.327	14.618	14.014	155	24.672	24.965	24.357
25	3.989	4.258	3.669	91	14.486	14.777	14.171	156	24.830	25.124	24.517
26	4.148	4.418	3.835	92	14.645	14.936	14.332	157	24.989	25.284	24.675
27	4.307	4.578	3.987	93	14.804	15.096	14.489	158	24.148	25.443	24.835
28	4.465	4.738	4.153	94	14.963	15.255	14.651	159	25.307	25.602	24.993
29	4.625	4.898	4.305	95	15.122	15.414	14.808	160	25.466	25.761	25.154
30	4.783	5.057	4.471	96	15.282	15.573	14.969	161	25.625	25.920	25.312
31	4.942	5.217	4.623	97	15.441	15.732	15.126	162	25.785	26.080	25.472
32	5.101	5.376	4.788	98	15.600	15.892	15.287	163	25.944	26.239	25.630
33	5.260	5.536	4.941	99	15.759	16.051	15.445	164	26.103	26.398	25.790
34	5.419	5.696	5.107	100	15.918	16.210	15.605	165	26.262	26.557	25.948
35	5.578	5.856	5.260	101	16.077	16.369	15.763	166	26.421	26.716	26.109
36	5.737	6.015	5.425	102	16.236	16.528	15.924	167	26.581	26.876	26.266
37	5.896	6.174	5.578	103	16.395	16.688	16.081	168	26.739	27.035	26.427
38	6.055	6.334	5.742	104	16.555	16.847	16.242	169	26.899	27.194	26.585
39	6.214	6.494	5.896	105	16.714	17.006	16.399	170	27.058	27.353	26.745
40	6.373	6.653	6.061	106	16.873	17.165	16.561	171	27.217	27.512	26.903
41	6.532	6.812	6.214	107	17.032	17.324	16.717	172	27.376	27.671	27.063
42	6.691	6.972	6.379	108	17.191	17.484	16.878	173	27.535	27.831	27.221
43	6.850	7.132	6.532	109	17.351	17.643	17.036	174	27.694	27.990	27.382
44	7.009	7.291	6.696	110	17.509	17.802	17.197	175	27.854	28.149	27.540
45	7.168	7.450	6.851	111	17.668	17.962	17.304	176	28.013	28.308	27.700
46	7.327	7.609	7.014	112	17.827	18.121	17.515	177	28.172	28.467	27.858
47	7.486	7.769	7.169	113	17.987	18.280	17.672	178	28.331	28.626	28.018
48	7.645	7.928	7.332	114	18.146	18.439	17.834	179	28.490	28.786	28.176
49	7.804	8.088	7.487	115	18.305	18.598	17.991	180	28.649	28.945	28.337
50	7.963	8.248	7.650	116	18.464	18.757	18.151	181	28.808	29.104	28.495
51	8.122	8.406	7.805	117	18.623	18.916	18.309	182	28.968	29.263	28.655
52	8.281	8.566	7.968	118	18.782	19.076	18.470	183	29.127	29.422	28.813
53	8.440	8.725	8.124	119	18.941	19.235	18.627	184	29.286	29.581	28.973
54	8.599	8.884	8.286	120	19.101	19.394	18.788	185	29.445	29.741	29.131
55	8.758	9.044	8.442	121	19.260	19.553	18.946	186	29.604	29.900	29.291
56	8.917	9.204	8.605	122	19.419	19.712	19.106	187	29.763	30.059	29.450
57	9.077	9.362	8.760	123	19.578	19.872	19.264	188	29.922	30.218	29.610
58	9.235	9.522	8.924	124	19.737	20.031	19.425	189	30.082	30.387	29.768
59	9.395	9.682	9.078	125	19.896	20.190	19.582	190	30.241	30.536	29.928
60	9.554	9.840	9.241	126	20.056	20.349	19.743	191	30.400	30.696	30.086
61	9.713	10.000	9.397	127	20.215	20.508	19.900	192	30.559	30.855	30.246
62	9.872	10.159	9.559	128	20.374	20.667	20.061	193	30.718	31.014	30.404
63	10.031	10.319	9.715	129	20.533	20.827	20.219	194	30.877	31.173	30.565
64	10.190	10.478	9.872	130	20.692	20.986	20.379	195	31.037	31.332	30.723
65	10.349	10.637	10.033	131	20.851	21.145	20.537	196	31.196	31.491	30.878
66	10.508	10.796	10.195	132	21.010	21.304	20.698	197	31.355	31.651	31.042
67	10.667	10.955	10.352	133	21.169	21.463	20.855	198	31.514	31.810	31.202
68	10.826	11.115	10.514	134	21.329	21.623	21.016	199	31.673	31.969	31.359
69	10.985	11.274	10.670	135	21.488	21.782	21.174	200	31.832	32.128	31.520
70	11.145	11.433	10.832								

No. 50
5/8" Pitch

**Sprocket
Diameter**

Martin

ROLLER CHAIN SPROCKET DIAMETERS

No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter
5	1.063	1.235	0.611	71	14.129	14.491	13.726	136	27.059	27.426	26.659
6	1.250	1.458	0.850	72	14.329	14.690	13.929	137	27.258	27.626	26.856
7	1.441	1.673	1.104	73	14.528	14.889	14.124	138	27.457	27.824	27.057
8	1.633	1.884	1.233	74	14.726	15.088	14.326	139	27.656	28.024	27.254
9	1.828	2.093	1.400	75	14.925	15.287	14.522	140	27.854	28.223	27.454
10	2.023	2.299	1.623	76	15.124	15.486	14.724	141	28.053	28.421	27.652
11	2.219	2.504	1.796	77	15.323	15.685	14.920	142	28.253	28.621	27.853
12	2.415	2.708	2.015	78	15.522	15.884	15.122	143	28.451	28.819	28.050
13	2.612	2.911	2.193	79	15.721	16.083	15.318	144	28.650	29.018	28.250
14	2.809	3.113	2.409	80	15.919	16.283	15.519	145	28.849	28.218	28.447
15	3.006	3.315	2.590	81	16.119	16.481	15.715	146	29.048	29.416	28.608
16	3.204	3.517	2.804	82	16.318	16.681	15.918	147	29.247	29.615	28.845
17	3.401	3.718	2.987	83	16.516	16.879	16.113	148	29.446	29.814	29.046
18	3.599	3.919	3.159	84	16.715	17.079	16.315	149	29.645	30.013	29.243
19	3.798	4.121	3.384	85	16.914	17.278	16.511	150	29.844	30.213	29.444
20	3.995	4.321	3.595	86	17.113	17.476	16.713	151	30.043	30.411	29.641
21	4.194	4.522	3.782	87	17.312	17.676	16.909	152	30.241	30.610	29.841
22	4.392	4.722	3.992	88	17.511	17.874	17.111	153	30.441	30.809	30.039
23	4.590	4.923	4.179	89	17.709	18.074	17.307	154	30.639	31.008	30.239
24	4.788	5.123	4.388	90	17.909	18.273	17.509	155	30.838	31.207	30.437
25	4.987	5.323	4.577	91	18.108	18.472	17.705	156	31.038	31.406	30.638
26	5.185	5.523	4.785	92	18.306	18.671	17.906	157	31.236	31.605	30.835
27	5.384	5.723	4.975	93	18.505	18.870	18.103	158	31.435	31.804	31.035
28	5.582	5.922	5.182	94	18.704	19.069	18.304	159	31.634	32.003	31.233
29	5.781	6.122	5.371	95	18.903	19.268	18.501	160	31.833	32.202	31.433
30	5.979	6.321	5.579	96	19.102	19.467	18.702	161	32.032	32.401	31.630
31	6.178	6.521	5.770	97	19.301	19.666	18.898	162	32.231	32.600	31.831
32	6.376	6.721	5.976	98	19.500	19.865	19.100	163	32.430	32.799	32.082
33	6.575	6.921	6.168	99	19.699	20.064	19.296	164	32.629	32.998	32.229
34	6.774	7.120	6.374	100	19.898	20.263	19.498	165	32.828	33.197	32.426
35	6.973	7.319	6.565	101	20.096	20.462	19.694	166	33.027	33.396	32.627
36	7.171	7.519	6.771	102	20.296	20.661	19.896	167	33.226	33.595	32.824
37	7.370	7.718	6.963	103	20.494	20.860	20.092	168	33.424	33.794	33.024
38	7.569	7.918	7.169	104	20.693	21.059	20.293	169	33.624	33.993	33.222
39	7.768	8.117	7.361	105	20.893	21.258	20.490	170	33.823	34.192	33.423
40	7.966	8.316	7.566	106	21.091	21.457	20.691	171	34.021	34.391	33.620
41	8.165	8.516	7.759	107	21.290	21.656	20.888	172	34.220	34.589	33.820
42	8.364	8.715	7.964	108	21.489	21.855	21.089	173	34.419	34.789	34.018
43	8.563	8.914	8.157	109	21.688	22.054	21.286	174	34.618	34.988	34.218
44	8.761	9.114	8.361	110	21.887	22.253	21.487	175	34.817	35.186	34.416
45	8.960	9.313	8.554	111	22.086	22.452	21.684	176	35.016	35.386	34.616
46	9.159	9.512	8.759	112	22.284	22.651	21.884	177	35.215	35.584	34.814
47	9.358	9.711	8.952	113	22.484	22.850	22.081	178	35.414	35.783	35.014
48	9.556	9.911	9.156	114	22.683	23.049	22.283	179	35.613	35.983	35.211
49	9.755	10.110	9.350	115	22.881	23.248	22.479	180	35.812	36.181	35.412
50	9.954	10.309	9.554	116	23.080	23.447	22.680	181	36.011	36.380	35.609
51	10.153	10.508	9.748	117	23.279	23.646	22.827	182	36.209	36.579	35.809
52	10.351	10.708	9.951	118	23.478	23.845	23.078	183	36.409	36.778	36.007
53	10.550	10.907	10.146	119	23.677	24.004	23.275	184	36.608	36.977	36.208
54	10.749	11.106	10.349	120	23.876	24.243	23.476	185	36.806	37.176	36.405
55	10.948	11.305	10.543	121	24.075	24.442	23.673	186	37.005	37.375	36.605
56	11.147	11.504	10.747	122	24.274	24.641	23.874	187	37.204	37.574	36.803
57	11.346	11.703	10.941	123	24.473	24.840	24.071	188	37.403	37.773	37.003
58	11.544	11.903	11.144	124	24.672	25.039	24.272	189	37.602	39.972	37.201
59	11.743	12.102	11.339	125	24.871	25.238	24.469	190	37.801	38.171	37.401
60	11.942	12.301	11.542	126	25.069	25.437	24.669	191	38.000	38.370	37.599
61	12.141	12.500	11.737	127	25.269	25.636	24.867	192	38.199	38.569	37.799
62	12.340	12.699	11.940	128	25.468	25.834	25.068	193	38.398	38.768	37.998
63	12.539	12.898	12.135	129	25.666	26.034	25.264	194	38.597	38.967	38.197
64	12.738	13.098	12.338	130	25.865	26.233	25.465	195	38.796	39.166	38.394
65	12.936	13.296	12.533	131	26.064	26.432	25.662	196	38.994	39.364	38.594
66	13.135	13.496	12.735	132	26.263	26.631	25.863	197	39.194	39.564	38.792
67	13.334	13.694	12.930	133	26.462	26.829	26.060	198	39.393	39.763	38.993
68	13.533	13.894	13.133	134	26.661	27.029	26.261	199	39.591	39.961	39.190
69	13.732	14.093	13.328	135	26.860	27.228	26.458	200	39.791	40.161	39.391
70	13.931	14.292	13.531								

ROLLER CHAIN SPROCKET DIAMETERS

No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter
5	1.276	1.482	0.745	71	16.955	17.389	16.482	136	32.471	32.912	32.002
6	1.500	1.749	1.031	72	17.195	17.628	16.726	137	32.709	33.151	32.238
7	1.729	2.007	1.216	73	17.433	17.867	16.960	138	32.948	33.389	32.479
8	1.960	2.261	1.491	74	17.672	18.106	17.203	139	33.187	33.629	32.716
9	2.193	2.511	1.691	75	17.910	18.344	17.437	140	33.425	33.867	32.956
10	2.427	2.759	1.958	76	18.149	18.584	17.680	141	33.664	34.106	33.193
11	2.663	3.005	2.166	77	18.388	18.822	17.915	142	33.903	34.345	33.434
12	2.898	3.249	2.429	78	18.626	19.061	18.157	143	34.142	34.583	33.670
13	3.134	3.493	2.642	79	18.865	19.300	18.392	144	34.380	34.822	33.911
14	3.371	3.736	2.902	80	19.103	19.539	18.634	145	34.619	35.061	34.148
15	3.608	3.978	3.119	81	19.343	19.778	18.870	146	34.858	35.300	34.389
16	3.845	4.220	3.380	82	19.581	20.017	19.112	147	35.096	35.538	34.625
17	4.082	4.462	3.595	83	19.820	20.255	19.347	148	35.335	35.777	34.866
18	4.319	4.703	3.850	84	20.058	20.495	19.589	149	35.574	36.016	35.103
19	4.557	4.945	4.072	85	20.297	20.733	19.824	150	35.813	36.255	35.344
20	4.794	5.186	4.325	86	20.536	20.972	20.067	151	36.051	36.494	35.580
21	5.033	5.426	4.549	87	20.774	21.211	20.302	152	36.290	36.732	35.821
22	5.270	5.666	4.801	88	21.013	21.449	20.544	153	36.529	36.971	36.058
23	5.508	5.907	5.026	89	21.251	21.689	20.779	154	36.767	37.210	36.298
24	5.746	6.147	5.277	90	21.491	21.927	21.022	155	37.006	37.448	36.535
25	5.984	6.387	5.503	91	21.729	22.166	21.257	156	37.245	37.688	36.776
26	6.222	6.627	5.753	92	21.968	22.405	21.499	157	37.484	37.926	37.013
27	6.461	6.867	5.980	93	22.206	22.644	21.734	158	37.722	38.165	37.253
28	6.698	7.106	6.229	94	22.445	22.883	21.976	159	37.961	38.404	37.490
29	6.937	7.346	6.458	95	22.684	23.121	22.212	160	38.200	38.642	37.731
30	7.175	7.586	6.706	96	22.922	23.360	22.453	161	38.438	38.881	37.968
31	7.413	7.826	6.935	97	23.162	23.599	22.689	162	38.677	39.120	38.208
32	7.652	8.065	7.183	98	23.400	23.838	22.931	163	38.916	39.359	38.445
33	7.890	8.305	7.412	99	23.639	24.077	23.167	164	39.155	39.597	38.686
34	8.129	8.544	7.660	100	23.877	24.316	23.408	165	39.393	39.836	38.922
35	8.367	8.783	7.889	101	24.116	24.554	23.644	166	39.632	40.075	39.163
36	8.606	9.023	8.137	102	24.355	24.793	23.886	167	39.871	40.314	39.400
37	8.844	9.262	8.367	103	24.593	25.032	24.121	168	40.109	40.553	39.640
38	9.083	9.501	8.614	104	24.832	25.271	24.363	169	40.349	40.791	39.877
39	9.321	9.740	8.844	105	25.071	25.510	24.599	170	40.587	41.030	40.118
40	9.560	9.980	9.091	106	25.310	25.748	24.841	171	40.826	41.269	40.355
41	9.798	10.219	9.321	107	25.548	25.987	25.076	172	41.064	41.507	40.595
42	10.037	10.458	9.568	108	25.787	26.226	25.318	173	41.303	41.747	40.832
43	10.275	10.697	9.799	109	26.026	26.465	25.554	174	41.542	41.985	41.073
44	10.514	10.937	10.045	110	26.264	26.704	25.795	175	41.780	42.224	41.310
45	10.752	11.176	10.276	111	26.503	26.942	26.031	176	42.020	42.463	41.551
46	10.991	11.414	10.522	112	26.741	27.181	26.272	177	42.258	42.701	41.787
47	11.229	11.654	10.754	113	26.981	27.420	26.507	178	42.497	42.940	42.028
48	11.468	11.893	10.999	114	27.219	27.659	26.750	179	42.735	43.179	42.265
49	11.706	12.132	11.231	115	27.458	27.898	26.986	180	42.974	43.418	42.505
50	11.945	12.371	11.476	116	27.696	28.136	27.227	181	43.213	43.656	42.742
51	12.183	12.610	11.708	117	27.935	28.375	27.464	182	43.451	43.895	42.982
52	12.422	12.849	11.953	118	28.174	28.614	27.705	183	43.691	44.134	43.220
53	12.660	13.088	12.186	119	28.412	28.853	27.941	184	43.929	44.372	43.460
54	12.899	13.327	12.430	120	28.652	29.091	28.183	185	44.168	44.612	43.697
55	13.137	13.566	12.663	121	28.890	29.330	28.418	186	44.406	44.850	43.937
56	13.376	13.805	12.907	122	29.129	29.569	28.660	187	44.645	45.089	44.174
57	13.615	14.044	13.140	123	29.367	29.808	28.896	188	44.884	45.328	44.415
58	13.853	14.283	13.384	124	29.606	30.047	29.137	189	45.122	45.566	44.652
59	14.092	14.522	13.618	125	29.845	30.285	29.373	190	45.362	45.805	44.893
60	14.330	14.761	13.861	126	30.083	30.524	29.614	191	45.600	46.044	45.129
61	14.570	15.000	14.095	127	30.323	30.763	29.851	192	45.839	46.283	45.370
62	14.808	15.239	14.339	128	30.561	31.001	30.092	193	46.077	46.521	45.607
63	15.047	15.478	14.573	129	30.800	31.241	30.328	194	46.316	46.760	45.847
64	15.285	15.717	14.816	130	31.038	31.479	30.569	195	46.555	46.999	46.084
65	15.524	15.956	15.050	131	31.277	31.718	30.806	196	46.793	47.237	46.324
66	15.762	16.195	15.293	132	31.516	31.957	31.047	197	47.033	47.477	46.562
67	16.001	16.433	15.528	133	31.754	32.195	31.283	198	47.271	47.715	46.802
68	16.240	16.673	15.771	134	31.993	32.435	31.524	199	47.510	47.954	47.039
69	16.478	16.911	16.005	135	32.232	32.673	31.761	200	47.749	48.193	47.280
70	16.717	17.150	16.248								

No. 80

1" Pitch

Sprocket Diameter



ROLLER CHAIN SPROCKET DIAMETERS

No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter
5	1.701	1.976	0.993	71	22.607	23.185	21.977	136	43.294	43.882	42.669
6	2.000	2.332	1.375	72	22.926	23.504	22.301	137	43.612	44.201	42.984
7	2.305	2.676	1.622	73	23.244	23.822	22.613	138	43.931	44.519	43.306
8	2.613	3.014	1.988	74	23.562	24.141	22.937	139	44.249	44.838	43.621
9	2.924	3.348	2.254	75	23.880	24.459	23.250	140	44.567	45.156	43.942
10	3.236	3.678	2.611	76	24.198	24.778	23.573	141	44.885	45.474	44.258
11	3.550	4.006	2.888	77	24.517	25.096	23.887	142	45.204	45.793	44.579
12	3.864	4.332	3.239	78	24.835	25.415	24.210	143	45.522	46.111	44.894
13	4.179	4.657	3.523	79	25.153	25.733	24.523	144	45.840	46.429	45.215
14	4.494	4.981	3.869	80	25.471	26.052	24.846	145	46.158	46.748	45.531
15	4.810	5.304	4.158	81	25.790	26.370	25.160	146	46.477	47.066	45.852
16	5.126	5.627	4.501	82	26.108	26.689	25.483	147	46.795	47.384	46.167
17	5.442	5.949	4.794	83	26.426	27.007	25.796	148	47.113	47.703	46.488
18	5.759	6.271	5.134	84	26.744	27.326	26.119	149	47.432	48.021	46.804
19	6.076	6.593	5.430	85	27.062	27.644	26.433	150	47.750	48.340	47.125
20	6.392	6.914	5.767	86	27.381	27.962	26.756	151	48.068	48.658	47.441
21	6.710	7.235	6.066	87	27.699	28.281	27.069	152	48.386	48.976	47.761
22	7.027	7.555	6.402	88	28.017	28.599	27.392	153	48.705	49.295	48.077
23	7.344	7.876	6.702	89	28.335	28.918	27.706	154	49.023	49.613	48.398
24	7.661	8.196	7.036	90	28.654	29.236	28.029	155	49.341	49.931	48.714
25	7.979	8.516	7.338	91	28.972	29.555	28.343	156	49.660	50.250	49.035
26	8.296	8.836	7.671	92	29.290	29.873	28.665	157	49.978	50.568	49.351
27	8.614	9.156	7.974	93	29.608	30.192	28.979	158	50.296	50.886	49.671
28	8.931	9.475	8.306	94	29.927	30.510	29.302	159	50.615	51.205	49.987
29	9.249	9.795	8.611	95	30.245	30.828	29.616	160	50.933	51.523	50.308
30	9.567	10.114	8.942	96	30.563	31.147	29.938	161	51.251	51.841	50.624
31	9.884	10.434	9.247	97	30.882	31.465	30.252	162	51.569	52.160	50.944
32	10.202	10.753	9.577	98	31.200	31.784	30.575	163	51.888	52.478	51.260
33	10.520	11.073	9.883	99	31.518	32.102	30.889	164	52.206	52.796	51.581
34	10.838	11.392	10.213	100	31.836	32.421	31.211	165	52.524	53.115	51.897
35	11.156	11.711	10.520	101	32.154	32.739	31.526	166	52.843	53.433	52.218
36	11.471	12.030	10.849	102	32.473	33.057	31.848	167	53.161	53.752	52.533
37	11.792	12.349	11.156	103	32.791	33.376	32.162	168	53.479	54.070	52.854
38	12.110	12.668	11.485	104	33.109	33.694	32.484	169	53.798	54.388	53.170
39	12.428	12.987	11.792	105	33.428	34.013	32.799	170	54.116	54.707	53.491
40	12.746	13.306	12.121	106	33.746	34.331	33.121	171	54.434	55.025	53.807
41	13.064	13.625	12.429	107	34.064	34.649	33.435	172	54.752	55.343	54.127
42	13.382	13.944	12.757	108	34.382	34.968	33.757	173	55.071	55.662	54.443
43	13.700	14.263	13.065	109	34.701	35.286	34.072	174	55.389	55.980	54.764
44	14.018	14.582	13.393	110	35.019	35.605	34.394	175	55.707	56.298	55.080
45	14.336	14.901	13.702	111	35.337	35.923	34.709	176	56.026	56.617	55.401
46	14.654	15.219	14.029	112	35.655	36.241	35.030	177	56.344	56.935	55.717
47	14.972	15.538	14.338	113	35.974	36.560	35.345	178	56.662	57.253	56.037
48	15.290	15.857	14.665	114	36.292	36.878	35.667	179	56.980	57.572	56.353
49	15.608	16.176	14.975	115	36.610	37.197	35.982	180	57.299	57.890	56.674
50	15.926	16.495	15.301	116	36.928	37.515	36.303	181	57.617	58.208	56.990
51	16.244	16.813	15.611	117	37.247	37.833	36.618	182	57.935	58.527	57.310
52	16.562	17.132	15.937	118	37.565	38.152	36.940	183	58.254	58.845	57.626
53	16.880	17.451	16.248	119	37.883	38.470	37.255	184	58.572	59.163	57.947
54	17.198	17.769	16.573	120	38.202	38.788	37.577	185	58.890	59.482	58.263
55	17.516	18.088	16.884	121	38.520	39.107	37.892	186	59.208	59.800	58.583
56	17.835	18.407	17.210	122	38.838	39.425	38.213	187	59.527	60.118	58.900
57	18.153	18.725	17.521	123	39.156	39.744	38.528	188	59.845	60.437	59.220
58	18.471	19.044	17.846	124	39.457	40.062	38.850	189	60.163	60.755	59.536
59	18.789	19.363	18.157	125	39.793	40.380	39.165	190	60.482	61.073	59.857
60	19.107	19.681	18.482	126	40.111	40.699	39.486	191	60.800	61.392	60.173
61	19.426	20.000	18.794	127	40.430	41.017	39.801	192	61.118	61.710	60.493
62	19.744	20.318	19.119	128	40.748	41.335	40.123	193	61.436	62.028	60.809
63	20.062	20.637	19.431	129	41.066	41.654	40.438	194	61.755	62.347	61.130
64	20.380	20.956	19.755	130	41.384	41.972	40.759	195	62.073	62.665	61.447
65	20.698	21.274	20.067	131	41.703	42.291	41.075	196	62.391	62.983	61.756
66	21.016	21.593	20.391	132	42.021	42.609	41.396	197	62.710	63.302	62.083
67	21.335	21.911	20.704	133	42.339	42.927	41.711	198	63.028	63.620	62.403
68	21.653	22.230	21.028	134	42.657	43.246	42.032	199	63.346	63.938	62.719
69	21.971	22.548	21.340	135	42.976	43.564	42.348	200	63.665	64.257	63.040
70	22.289	22.867	21.664								



Sprocket Diameter

No. 100 1¼" Pitch

ROLLER CHAIN SPROCKET DIAMETERS

No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter
5	2.126	2.470	1.273	71	28.259	28.981	27.502	136	54.118	54.853	53.368
6	2.500	2.915	1.750	72	28.658	29.380	27.908	137	54.515	55.251	53.762
7	2.881	3.345	2.059	73	29.055	29.778	28.298	138	54.914	55.649	54.164
8	3.266	3.768	2.516	74	29.453	30.176	28.703	139	55.311	56.048	54.558
9	3.655	4.185	2.849	75	29.850	30.574	29.094	140	55.709	56.445	54.959
10	4.045	4.598	3.295	76	30.248	30.973	29.498	141	56.106	56.843	55.353
11	4.438	5.008	3.639	77	30.646	31.370	29.890	142	56.505	57.241	55.755
12	4.830	5.415	4.080	78	31.044	31.769	30.294	143	56.903	57.639	56.149
13	5.224	5.821	4.435	79	31.441	32.166	30.685	144	57.300	58.036	56.550
14	5.618	6.226	4.868	80	31.839	32.565	31.089	145	57.698	58.435	56.945
15	6.013	6.630	5.229	81	32.238	32.963	31.481	146	58.096	58.833	57.346
16	6.408	7.034	5.658	82	32.635	33.361	31.885	147	58.494	59.230	57.741
17	6.803	7.436	6.024	83	33.033	33.759	32.277	148	58.891	59.629	58.141
18	7.199	7.839	6.449	84	33.430	34.158	32.680	149	59.290	60.026	58.536
19	7.595	8.241	6.819	85	33.828	34.555	33.072	150	59.688	60.425	58.938
20	7.990	8.643	7.240	86	34.226	34.953	33.476	151	60.085	60.823	59.332
21	8.388	9.044	7.613	87	34.624	35.351	33.868	152	60.483	61.220	59.733
22	8.784	9.444	8.034	88	35.022	35.749	34.272	153	60.881	61.619	60.128
23	9.180	9.845	8.409	89	35.419	36.148	34.664	154	61.279	62.016	60.529
24	9.576	10.245	8.827	90	35.818	36.545	35.068	155	61.676	62.414	60.924
25	9.974	10.645	9.204	91	36.215	36.944	35.460	156	62.075	62.813	61.325
26	10.370	11.045	9.620	92	36.613	37.341	35.863	157	62.473	63.210	61.719
27	10.768	11.445	9.999	93	37.010	37.740	36.255	158	62.870	63.608	62.120
28	11.164	11.844	10.414	94	37.409	38.138	36.659	159	63.269	64.006	62.515
29	11.561	12.244	10.794	95	37.806	38.535	37.051	160	63.666	64.404	62.916
30	11.959	12.643	11.209	96	38.204	38.934	37.454	161	64.064	64.801	63.311
31	12.355	13.043	11.590	97	38.603	39.331	37.847	162	64.461	65.200	63.711
32	12.753	13.441	12.003	98	39.000	39.730	38.250	163	64.860	65.598	64.107
33	13.150	13.841	12.385	99	39.398	40.128	38.643	164	65.258	65.995	64.508
34	13.548	14.240	12.798	100	39.795	40.526	39.045	165	65.655	66.394	64.902
35	13.945	14.639	13.181	101	40.193	40.924	39.438	166	66.054	66.791	65.304
36	14.343	15.038	13.593	102	40.591	41.321	39.841	167	66.451	67.190	65.698
37	14.740	15.436	13.976	103	40.989	41.720	40.234	168	66.849	67.588	66.099
38	15.138	15.835	14.388	104	41.386	42.118	40.636	169	67.248	67.985	66.494
39	15.535	16.234	14.772	105	41.785	42.516	41.030	170	67.645	68.384	66.895
40	15.933	16.633	15.183	106	42.183	42.914	41.433	171	68.043	68.781	67.290
41	16.330	17.031	15.567	107	42.580	43.311	41.826	172	68.440	69.179	67.690
42	16.728	17.430	15.978	108	42.978	43.710	42.228	173	68.839	69.578	68.086
43	17.125	17.829	16.363	109	43.376	44.108	42.621	174	69.236	69.975	68.486
44	17.523	18.228	16.773	110	43.774	44.506	43.024	175	69.634	70.373	68.881
45	17.920	18.626	17.159	111	44.171	44.904	43.420	176	70.033	70.771	69.283
46	18.318	19.024	17.568	112	44.569	45.301	43.819	177	70.430	71.169	69.677
47	18.715	19.423	17.954	113	44.968	45.700	44.213	178	70.828	71.566	70.078
48	19.113	19.821	18.363	114	45.365	46.098	44.615	179	71.225	71.965	70.473
49	19.510	20.220	18.750	115	45.763	46.496	45.009	180	71.624	72.363	70.874
50	19.908	20.619	19.158	116	46.160	46.894	45.410	181	72.021	72.760	71.269
51	20.305	21.016	19.546	117	46.559	47.291	45.804	182	72.419	73.159	71.669
52	20.703	21.415	19.953	118	46.956	47.690	46.206	183	72.818	73.556	72.064
53	21.100	21.814	20.341	119	47.354	48.088	46.600	184	73.215	73.954	72.465
54	21.498	22.211	20.748	120	47.753	48.485	47.003	185	73.613	74.353	72.860
55	21.895	22.610	21.137	121	48.150	48.884	47.396	186	74.010	74.750	73.260
56	22.294	23.009	21.544	122	48.548	49.281	47.798	187	74.409	75.148	73.656
57	22.691	23.406	21.932	123	48.945	49.680	48.192	188	74.806	75.546	74.056
58	23.089	23.805	22.339	124	49.344	50.078	48.594	189	75.204	75.944	74.452
59	23.486	24.204	22.728	125	49.741	50.475	48.987	190	75.603	76.341	74.853
60	23.884	24.601	23.134	126	50.139	50.874	49.389	191	76.000	76.740	75.247
61	24.283	25.000	23.524	127	50.538	51.271	49.783	192	76.398	77.138	75.648
62	24.680	25.398	23.930	128	50.935	51.669	50.185	193	76.795	77.535	76.043
63	25.078	25.796	24.320	129	51.333	52.068	50.579	194	77.194	77.934	76.444
64	25.475	26.195	24.725	130	51.730	52.465	50.980	195	77.591	78.331	76.839
65	25.873	26.593	25.115	131	52.129	52.864	51.375	196	77.989	78.729	77.239
66	26.270	26.991	25.520	132	52.526	53.261	51.776	197	78.388	79.128	77.635
67	26.669	27.389	25.911	133	52.924	53.659	52.170	198	78.785	79.525	78.035
68	27.066	27.788	26.316	134	53.321	54.058	52.571	199	79.183	79.923	78.430
69	27.464	28.185	26.707	135	53.720	54.455	52.966	200	79.581	80.321	78.831
70	27.861	28.584	27.111								

No. 120

1½" Pitch

Sprocket Diameter



ROLLER CHAIN SPROCKET DIAMETERS

No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter
5	2.552	2.964	1.552	71	33.911	34.778	33.028	136	64.941	65.823	64.066
6	3.000	3.498	2.125	72	34.389	35.256	33.514	137	65.418	66.302	64.539
7	3.458	4.014	2.496	73	34.866	35.733	33.983	138	65.897	66.779	65.022
8	3.920	4.521	3.045	74	35.343	36.212	34.468	139	66.374	67.257	65.494
9	4.386	5.022	3.444	75	35.820	36.689	34.938	140	66.851	67.734	65.976
10	4.854	5.517	3.979	76	36.297	37.167	35.422	141	67.328	68.211	66.449
11	5.325	6.009	4.392	77	36.776	37.644	35.892	142	67.806	68.690	66.931
12	5.796	6.498	4.921	78	37.253	38.123	36.378	143	68.283	69.167	67.404
13	6.269	6.986	5.347	79	37.730	38.600	36.847	144	68.760	69.644	67.885
14	6.741	7.472	5.866	80	38.207	39.078	37.332	145	69.237	70.122	68.359
15	7.215	7.956	6.300	81	38.685	39.555	37.802	146	69.716	70.599	68.841
16	7.689	8.441	6.814	82	39.162	40.034	38.287	147	70.193	71.076	69.314
17	8.163	8.924	7.254	83	39.639	40.511	38.757	148	70.670	71.555	69.795
18	8.639	9.407	7.764	84	40.116	40.989	39.241	149	71.148	72.032	70.269
19	9.114	9.890	8.207	85	40.593	41.466	39.712	150	71.625	72.510	70.750
20	9.588	10.371	8.713	86	41.072	41.943	40.197	151	72.102	72.987	71.224
21	10.065	10.853	9.161	87	41.549	42.422	40.667	152	72.579	73.464	71.704
22	10.541	11.333	9.666	88	42.026	42.899	41.151	153	73.058	73.943	72.178
23	11.016	11.814	10.115	89	42.503	43.377	41.622	154	73.535	74.420	72.660
24	11.492	12.294	10.617	90	42.981	43.854	42.106	155	74.012	74.897	73.133
25	11.969	12.774	11.070	91	43.458	44.333	42.576	156	74.490	75.375	73.615
26	12.444	13.254	11.569	92	43.935	44.810	43.060	157	74.967	75.852	74.088
27	12.921	13.734	12.024	93	44.412	45.288	43.531	158	75.444	76.329	74.569
28	13.397	14.213	12.522	94	44.891	45.765	44.016	159	75.923	76.808	75.043
29	13.874	14.693	12.978	95	45.368	46.242	44.48	160	76.400	77.285	75.525
30	14.351	15.171	13.476	96	45.845	46.721	44.970	161	76.877	77.762	75.998
31	14.826	15.651	13.933	97	46.323	47.198	45.441	162	77.354	78.240	76.479
32	15.303	16.130	14.428	98	46.800	47.676	45.925	163	77.832	78.717	76.953
33	15.780	16.610	14.887	99	47.277	48.153	46.396	164	78.309	79.194	77.434
34	16.257	17.088	15.382	100	47.754	48.632	46.879	165	78.786	79.672	77.908
35	16.734	17.567	15.842	101	48.231	49.109	47.351	166	79.265	80.150	78.390
36	17.211	18.045	16.336	102	48.710	49.586	47.835	167	79.742	80.628	78.863
37	17.688	18.524	16.797	103	49.187	50.064	48.306	168	80.219	81.105	79.344
38	18.165	19.002	17.290	104	49.664	50.541	48.789	169	80.697	81.582	79.818
39	18.642	19.481	17.751	105	50.142	51.020	49.261	170	81.174	82.061	80.299
40	19.119	19.959	18.244	106	50.619	51.497	49.744	171	81.651	82.538	80.773
41	19.596	20.438	18.706	107	51.096	51.974	50.216	172	82.128	83.015	81.253
42	20.073	20.916	19.198	108	51.573	52.452	50.698	173	82.607	83.493	81.728
43	20.550	21.395	19.661	109	52.052	52.929	51.171	174	83.084	83.970	82.209
44	21.027	21.873	20.152	110	52.529	53.408	51.654	175	83.561	84.447	82.683
45	21.504	22.352	20.615	111	53.006	53.885	52.125	176	84.039	84.926	83.164
46	21.981	22.829	21.106	112	53.483	54.362	52.608	177	84.501	85.403	83.637
47	22.458	23.307	21.570	113	53.961	54.840	53.080	178	84.993	85.880	84.118
48	22.935	23.786	22.060	114	54.438	55.317	53.563	179	85.470	86.358	84.592
49	23.412	24.264	22.525	115	54.915	55.796	54.035	180	85.949	86.835	85.074
50	23.889	24.743	23.014	116	55.392	56.273	54.517	181	86.426	87.312	85.547
51	24.366	25.220	23.480	117	55.871	56.750	54.990	182	86.903	87.791	86.028
52	24.843	25.698	23.968	118	56.348	57.228	55.473	183	87.381	88.268	86.502
53	25.320	26.177	24.434	119	56.825	57.705	55.945	184	87.858	88.745	86.983
54	25.797	26.654	24.922	120	57.303	58.182	56.428	185	88.335	89.223	87.457
55	26.274	27.132	25.389	121	57.780	58.661	56.900	186	88.812	89.700	87.937
56	26.753	27.611	25.878	122	58.257	59.138	57.382	187	89.291	90.177	88.412
57	27.230	28.088	26.344	123	58.734	59.616	57.855	188	89.768	90.656	88.893
58	27.707	28.566	26.832	124	59.213	60.093	58.338	189	90.245	91.133	89.367
59	28.184	29.045	27.299	125	59.690	60.570	58.810	190	90.723	91.610	89.848
60	28.661	29.522	27.786	126	60.167	61.049	59.292	191	91.200	92.088	90.322
61	29.139	30.000	28.254	127	60.645	61.526	59.765	192	91.677	92.565	90.802
62	29.616	30.477	28.741	128	61.122	62.003	60.247	193	92.154	93.042	91.277
63	30.093	30.956	29.208	129	61.599	62.481	60.720	194	92.633	93.521	91.758
64	30.570	31.434	29.695	130	62.076	62.958	61.201	195	93.110	93.998	92.232
65	31.047	31.911	30.163	131	62.555	63.437	61.674	196	93.587	94.475	92.712
66	31.524	32.390	30.649	132	63.032	63.914	62.157	197	94.065	94.953	93.187
67	32.003	32.867	31.118	133	63.509	64.391	62.629	198	94.542	95.430	93.667
68	32.480	33.345	31.605	134	63.986	64.869	63.111	199	95.019	95.907	94.141
69	32.957	33.822	32.073	135	64.464	65.346	63.584	200	95.498	96.386	94.623
70	33.434	34.301	32.559								



Sprocket Diameter

No. 140 1³/₄" Pitch

ROLLER CHAIN SPROCKET DIAMETERS

No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter
5	2.977	3.458	1.832	71	39.562	40.574	38.553	136	75.765	76.794	74.765
6	3.500	4.081	2.500	72	40.121	41.132	39.121	137	76.321	77.352	75.316
7	4.034	4.683	2.932	73	40.677	41.689	39.667	138	76.879	77.908	75.879
8	4.573	5.275	3.573	74	41.234	42.247	40.234	139	77.436	78.467	76.431
9	5.117	5.859	4.039	75	41.790	42.803	40.781	140	78.008	79.023	77.008
10	5.663	6.437	4.663	76	42.347	43.362	41.347	141	78.549	79.580	77.545
11	6.213	7.011	5.148	77	42.905	43.918	41.895	142	79.107	80.138	78.107
12	6.762	7.581	5.762	78	43.461	44.476	42.461	143	79.664	80.694	78.664
13	7.313	8.150	6.259	79	44.018	45.033	43.009	144	80.220	81.251	79.220
14	7.865	8.717	6.865	80	44.574	45.591	43.574	145	80.777	81.809	79.773
15	8.418	9.282	7.371	81	45.133	46.148	44.123	146	81.335	82.366	80.335
16	8.971	9.847	7.971	82	45.689	46.706	44.689	147	81.891	82.922	80.887
17	9.524	10.411	8.483	83	46.246	47.262	45.237	148	82.448	83.480	81.448
18	10.078	10.974	9.078	84	46.802	47.821	45.802	149	83.006	84.037	82.000
19	10.633	11.538	9.596	85	47.359	48.377	46.351	150	83.563	84.595	82.563
20	11.186	12.100	10.186	86	47.917	48.934	46.917	151	84.119	85.152	83.115
21	11.743	12.661	10.709	87	48.473	49.492	47.465	152	84.676	85.708	83.676
22	12.297	13.221	11.297	88	49.030	50.048	48.030	153	85.234	86.266	84.229
23	12.852	13.783	11.822	89	49.586	50.607	48.579	154	85.790	86.823	84.790
24	13.407	14.343	12.407	90	50.145	51.163	49.145	155	86.347	87.379	85.343
25	13.963	14.903	12.935	91	50.701	51.721	49.693	156	86.905	87.938	85.905
26	14.518	15.463	13.518	92	51.258	52.278	50.258	157	87.462	88.494	86.457
27	15.075	16.023	14.049	93	51.814	52.836	50.807	158	88.018	89.051	87.018
28	15.629	16.581	14.629	94	52.372	53.393	51.372	159	88.576	89.609	87.571
29	16.186	17.141	15.162	95	52.929	53.949	51.921	160	89.133	90.165	88.133
30	16.742	17.700	15.742	96	53.485	54.507	52.485	161	89.689	90.722	88.685
31	17.297	18.260	16.276	97	54.044	55.064	53.035	162	90.246	91.280	89.246
32	17.854	18.818	16.854	98	54.600	55.622	53.600	163	90.804	91.837	89.799
33	18.410	19.378	17.389	99	55.157	56.179	54.150	164	91.361	92.393	90.361
34	18.967	19.936	17.967	100	55.713	56.737	54.713	165	91.917	92.951	90.913
35	19.523	20.494	18.503	101	56.270	57.293	55.264	166	92.475	93.508	91.475
36	20.080	21.053	19.080	102	56.828	57.850	55.828	167	93.032	94.066	92.027
37	20.636	21.611	19.617	103	57.384	58.408	56.378	168	93.588	94.623	92.588
38	21.193	22.169	20.193	104	57.941	58.965	56.941	169	94.147	95.179	93.141
39	21.749	22.727	20.730	105	58.499	59.523	57.492	170	94.703	95.737	93.703
40	22.306	23.286	21.306	106	59.056	60.079	58.056	171	95.260	96.294	94.255
41	22.862	23.844	21.844	107	59.612	60.636	58.606	172	95.816	96.850	94.816
42	23.419	24.402	22.419	108	60.169	61.194	59.169	173	96.374	97.409	95.370
43	23.975	24.960	22.958	109	60.727	61.751	59.720	174	96.931	97.965	95.931
44	24.532	25.519	23.532	110	61.283	62.309	60.283	175	97.487	98.522	96.484
45	25.088	26.077	24.072	111	61.840	62.865	60.834	176	98.046	99.080	97.046
46	25.645	26.633	24.645	112	62.396	63.422	61.396	177	98.602	99.636	97.598
47	26.201	27.192	25.186	113	62.955	63.980	61.948	178	99.159	100.193	98.159
48	26.758	27.750	25.758	114	63.511	64.537	62.511	179	99.715	100.751	98.712
49	27.314	28.308	26.300	115	64.068	65.095	63.062	180	100.273	101.308	99.273
50	27.871	28.866	26.871	116	64.624	65.651	63.624	181	100.830	101.864	99.826
51	28.427	29.423	27.414	117	65.182	66.208	64.176	182	101.386	102.422	100.386
52	28.984	29.981	27.984	118	65.739	66.766	64.739	183	101.945	102.979	100.940
53	29.540	30.539	28.528	119	66.295	67.323	65.290	184	102.501	103.535	101.501
54	30.097	31.096	29.097	120	66.854	67.879	65.854	185	103.058	104.094	102.054
55	30.653	31.654	29.641	121	67.410	68.437	66.404	186	103.614	104.650	102.614
56	31.211	32.212	30.211	122	67.967	68.994	66.967	187	104.172	105.207	103.168
57	31.768	32.769	30.755	123	68.523	69.552	67.518	188	104.729	105.765	103.729
58	32.324	33.327	31.324	124	69.081	70.109	68.081	189	105.285	106.321	104.282
59	32.881	33.885	31.869	125	69.638	70.665	68.632	190	105.844	106.878	104.844
60	33.437	34.442	32.437	126	70.194	71.223	69.194	191	106.400	107.436	105.396
61	33.996	35.000	32.983	127	70.753	71.780	69.746	192	106.957	107.993	105.957
62	34.552	35.557	33.552	128	71.309	72.336	70.309	193	107.513	108.549	106.510
63	35.109	36.115	34.097	129	71.866	72.895	70.860	194	108.071	109.107	107.071
64	35.665	36.673	34.665	130	72.422	73.451	71.422	195	108.628	109.664	107.624
65	36.222	37.230	35.211	131	72.980	74.009	71.974	196	109.184	110.220	108.184
66	36.778	37.788	35.778	132	73.537	74.566	72.537	197	109.743	110.779	108.738
67	37.336	38.344	36.325	133	74.093	75.122	73.088	198	110.299	111.335	109.299
68	37.893	38.903	36.893	134	74.650	75.681	73.650	199	110.856	111.892	109.853
69	38.449	39.459	37.439	135	75.208	76.237	74.202	200	111.414	112.450	110.414
0	39.006	40.017	38.006								

No. 160

2" Pitch

Sprocket Diameter

ROLLER CHAIN SPROCKET DIAMETERS

No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter
5	3.402	3.952	2.111	71	45.214	46.370	44.079	136	86.588	87.764	85.463
6	4.000	4.664	2.875	72	45.852	47.008	44.727	137	87.224	88.402	86.094
7	4.610	5.352	3.369	73	46.488	47.644	45.352	138	87.862	89.038	86.737
8	5.226	6.028	4.101	74	47.124	48.282	45.999	139	88.498	89.676	87.367
9	5.848	6.696	4.635	75	47.760	48.918	46.625	140	89.134	90.312	88.009
10	6.472	7.356	5.347	76	48.396	49.556	47.271	141	89.770	90.948	88.640
11	7.100	8.012	5.902	77	49.034	50.192	47.898	142	90.408	91.586	89.283
12	7.728	8.664	6.603	78	49.670	50.830	48.545	143	91.044	92.222	89.913
13	8.358	9.314	7.171	79	50.306	51.466	49.171	144	91.680	92.858	90.555
14	8.988	9.962	7.863	80	50.942	52.104	49.817	145	92.316	93.496	91.187
15	9.620	10.608	8.442	81	51.580	52.740	50.444	146	92.945	94.132	91.829
16	10.252	11.254	9.127	82	52.216	53.378	51.091	147	93.590	94.768	92.460
17	10.844	11.898	9.713	83	52.852	54.014	51.718	148	94.226	95.406	93.101
18	11.518	12.542	10.393	84	53.488	54.652	52.363	149	94.864	96.042	93.733
19	12.152	13.186	10.985	85	54.124	55.288	52.991	150	95.500	96.680	94.375
20	12.784	13.828	11.659	86	54.762	55.924	53.637	151	96.136	97.316	95.006
21	13.420	14.470	12.256	87	55.398	56.562	54.264	152	96.772	97.952	95.647
22	14.054	15.110	12.929	88	56.034	57.198	54.909	153	97.410	98.590	96.280
23	14.688	15.752	13.529	89	56.670	57.836	55.537	154	98.046	99.226	96.921
24	15.322	16.392	14.197	90	57.308	58.472	56.183	155	98.682	99.862	97.553
25	15.958	17.032	14.801	91	57.944	59.110	56.810	156	99.320	100.500	98.195
26	16.592	17.672	15.467	92	58.580	59.746	57.455	157	99.956	101.136	98.826
27	17.228	18.312	16.073	93	59.216	60.384	58.083	158	100.592	101.772	99.467
28	17.862	18.950	16.737	94	59.854	61.020	58.729	159	101.230	102.410	100.099
29	18.498	19.590	17.346	95	60.490	61.656	59.357	160	101.866	103.046	100.741
30	19.134	20.228	18.009	96	61.126	62.294	60.001	161	102.502	103.682	101.372
31	19.768	20.868	18.619	97	61.764	62.930	60.630	162	103.138	104.320	102.013
32	20.404	21.506	19.279	98	62.400	63.568	61.275	163	103.776	104.956	102.646
33	21.040	22.146	19.891	99	63.036	64.204	61.903	164	104.412	105.592	103.287
34	21.676	22.784	20.551	100	63.672	64.842	62.547	165	105.048	106.230	103.919
35	22.312	23.422	21.164	101	64.308	65.478	63.176	166	105.686	106.866	104.561
36	22.948	24.060	21.823	102	64.946	66.114	63.821	167	106.322	107.504	105.192
37	23.584	24.698	22.437	103	65.582	66.752	64.449	168	106.958	108.140	105.833
38	24.220	25.336	23.095	104	66.218	67.388	65.093	169	107.596	108.776	106.465
39	24.856	25.974	23.710	105	66.856	68.026	65.723	170	108.232	109.414	107.107
40	25.492	26.612	24.367	106	67.492	68.662	66.367	171	108.868	110.050	107.738
41	26.128	27.250	24.983	107	68.128	69.298	66.996	172	109.504	110.686	108.379
42	26.764	27.888	25.639	108	68.764	69.936	67.639	173	110.142	111.324	109.012
43	27.400	28.526	26.256	109	69.400	70.572	68.269	174	110.778	111.960	109.653
44	28.036	29.164	26.911	110	70.038	70.210	68.913	175	111.414	112.596	110.285
45	28.672	29.802	27.529	111	70.674	71.846	69.542	176	112.052	113.234	110.927
46	29.308	30.438	28.183	112	71.310	72.482	70.185	177	112.688	113.870	111.558
47	29.944	31.076	28.802	113	71.948	73.120	70.815	178	113.324	114.506	112.199
48	30.580	31.714	29.455	114	72.584	73.756	71.459	179	113.960	115.144	112.831
49	31.216	32.352	30.075	115	73.220	74.394	72.089	180	114.598	115.780	113.473
50	31.852	32.990	30.727	116	73.856	75.030	72.731	181	115.234	116.416	114.105
51	32.488	33.626	31.348	117	74.494	75.666	73.362	182	115.870	117.054	114.745
52	33.124	34.264	31.999	118	75.130	76.304	74.005	183	116.508	117.690	115.388
53	33.760	34.902	32.621	119	75.766	76.940	74.645	184	117.144	118.326	116.019
54	34.396	35.538	33.271	120	76.404	77.576	75.279	185	117.780	118.964	116.651
55	35.032	36.176	33.894	121	77.040	78.214	75.908	186	118.416	119.600	117.291
56	35.670	36.814	34.545	122	77.676	78.850	76.551	187	119.054	120.236	117.924
57	36.306	37.450	35.167	123	78.312	79.488	77.181	188	119.690	120.874	118.565
58	36.942	38.088	35.817	124	78.950	80.124	77.825	189	120.326	121.510	119.197
59	37.578	38.726	36.440	125	79.586	80.760	78.455	190	120.964	122.146	119.839
60	38.214	39.362	37.089	126	80.222	81.398	79.097	191	121.600	122.784	120.471
61	38.852	40.000	37.713	127	80.860	82.034	79.728	192	122.236	123.420	121.111
62	39.488	40.636	38.363	128	81.496	82.670	80.371	193	122.872	124.056	121.744
63	40.124	41.274	38.986	129	82.132	83.308	81.001	194	123.510	124.694	122.385
64	40.760	41.912	39.635	130	82.768	83.944	81.643	195	124.146	125.330	123.017
65	41.396	42.548	40.259	131	83.406	84.582	82.274	196	124.781	125.966	123.656
66	42.032	43.186	40.907	132	84.042	85.218	82.917	197	125.420	126.604	124.290
67	42.670	43.822	41.532	133	84.678	85.854	83.547	198	126.056	127.240	124.931
68	43.306	44.460	42.181	134	85.314	86.492	84.189	199	126.692	127.876	125.564
69	43.942	45.096	42.806	135	85.952	87.128	84.820	200	127.330	128.514	126.205
70	44.578	45.734	43.453								



Sprocket Diameter

No. 180 2 1/4" Pitch

ROLLER CHAIN SPROCKET DIAMETERS

No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter
5	3.828	4.446	2.234	71	50.866	52.166	49.448	136	97.412	98.735	96.006
6	4.500	5.247	3.094	72	51.583	52.884	50.177	137	98.128	99.452	96.715
7	5.186	6.021	3.650	73	52.299	53.600	50.880	138	98.844	100.106	97.438
8	5.879	6.782	4.473	74	53.015	54.317	51.609	139	99.560	100.886	98.148
9	6.579	7.533	5.073	75	53.730	55.033	52.313	140	100.276	101.601	98.870
10	7.281	8.276	5.875	76	54.446	55.751	53.040	141	100.992	102.317	99.580
11	7.986	9.014	6.499	77	55.162	56.466	53.745	142	101.708	103.034	100.302
12	8.693	9.747	7.287	78	55.879	57.184	54.473	143	102.425	103.750	101.012
13	9.402	10.478	7.927	79	56.594	57.899	55.177	144	103.140	104.465	101.734
14	10.112	11.207	8.706	80	57.310	58.617	55.904	145	103.857	105.183	102.445
15	10.822	11.934	9.357	81	58.027	59.333	56.610	146	104.573	105.899	103.167
16	11.533	12.661	10.127	82	58.743	60.055	57.337	147	105.289	106.614	103.877
17	12.245	13.385	10.787	83	59.459	60.766	58.042	148	106.005	108.332	104.599
18	12.957	14.110	11.551	84	60.175	61.484	58.769	149	106.721	108.047	105.309
19	13.670	14.834	12.217	85	60.891	62.199	59.474	150	107.438	108.765	106.032
20	14.383	15.557	12.977	86	61.607	62.915	60.201	151	108.154	109.481	106.742
21	15.096	16.279	13.648	87	62.323	63.632	60.907	152	108.870	110.196	107.464
22	15.810	16.999	14.404	88	63.039	63.348	61.633	153	109.586	110.914	108.174
23	16.524	17.721	15.079	89	63.755	65.066	62.339	154	110.302	111.629	108.896
24	17.238	18.441	15.832	90	64.471	65.781	63.065	155	111.018	112.345	109.607
25	17.952	19.161	16.511	91	65.187	66.499	63.771	156	111.734	113.063	110.328
26	18.666	19.881	17.260	92	65.903	67.214	64.497	157	112.451	113.778	111.039
27	19.381	20.601	17.942	93	66.619	67.932	65.203	158	113.167	114.494	111.761
28	20.096	21.319	18.690	94	67.335	68.648	65.929	159	113.883	115.211	112.471
29	20.810	22.039	19.374	95	68.051	69.363	66.636	160	114.599	115.927	113.193
30	21.525	22.757	20.119	96	68.767	70.081	67.361	161	115.315	116.642	113.904
31	22.240	23.477	20.806	97	69.483	70.796	68.068	162	116.031	117.360	114.625
32	22.955	24.194	21.549	98	70.199	71.514	68.793	163	116.747	118.076	115.336
33	23.670	24.914	22.237	99	70.916	72.230	69.500	164	117.464	118.791	116.058
34	24.385	25.632	22.979	100	71.631	72.947	70.225	165	118.180	119.509	116.768
35	25.101	26.350	23.669	101	72.348	73.663	70.933	166	118.896	120.224	117.490
36	25.816	27.068	24.410	102	73.064	74.378	71.658	167	119.612	120.942	118.201
37	26.531	27.785	25.101	103	73.780	75.096	72.365	168	120.328	121.658	118.922
38	27.246	28.503	25.840	104	74.496	75.812	73.090	169	121.044	122.373	119.633
39	27.962	29.221	26.533	105	75.212	76.529	73.798	170	121.760	123.091	120.354
40	28.677	29.939	27.271	106	75.928	77.245	74.522	171	122.477	123.806	121.065
41	29.393	30.656	27.965	107	76.644	77.960	75.230	172	123.193	124.522	121.787
42	30.108	31.374	28.702	108	77.360	78.678	75.954	173	123.909	125.240	122.498
43	30.824	32.092	29.397	109	79.073	79.394	76.662	174	124.625	125.955	123.219
44	31.539	32.810	30.133	110	78.792	80.111	77.386	175	125.341	126.671	123.930
45	32.255	33.527	30.830	111	79.508	80.827	78.095	176	126.057	127.388	124.651
46	32.971	34.243	31.565	112	80.225	81.542	78.819	177	126.774	128.104	125.363
47	33.686	34.961	32.262	113	80.931	82.260	79.527	178	127.490	128.819	126.084
48	34.402	35.678	32.996	114	81.657	82.976	80.251	179	128.206	129.537	126.795
49	35.118	36.396	33.694	115	82.373	83.693	80.959	180	128.922	130.253	127.516
50	35.834	37.114	34.428	116	83.089	84.409	81.683	181	129.638	130.968	128.227
51	36.549	37.829	35.126	117	83.805	85.124	82.392	182	130.354	131.686	128.948
52	37.265	38.547	35.859	118	84.521	85.842	83.115	183	131.071	132.401	129.660
53	37.981	39.265	36.558	119	85.237	86.558	83.824	184	131.787	133.117	130.381
54	38.696	39.980	37.290	120	85.953	87.273	84.547	185	132.503	133.835	131.092
55	39.412	40.698	37.990	121	86.670	87.991	85.256	186	133.219	134.550	131.813
56	40.128	41.416	38.722	122	87.386	88.706	85.980	187	133.935	135.266	132.524
57	40.844	42.131	39.422	123	88.102	89.424	86.689	188	134.651	135.983	133.245
58	41.560	42.849	40.154	124	88.818	90.140	87.412	189	135.367	136.699	133.957
59	42.276	43.567	40.855	125	89.534	90.855	88.121	190	136.084	137.414	134.678
60	42.991	44.282	41.585	126	90.250	91.573	88.844	191	136.800	138.132	135.389
61	43.707	45.000	42.287	127	90.966	92.288	89.553	192	137.516	138.848	136.110
62	44.423	45.716	43.017	128	91.682	93.004	90.276	193	138.232	139.563	136.822
63	45.139	46.433	43.719	129	92.399	93.722	90.986	194	138.948	140.281	137.542
64	45.855	47.151	44.449	130	93.115	94.437	91.709	195	139.664	140.996	138.254
65	46.571	47.867	45.151	131	93.831	95.155	92.418	196	140.381	141.712	138.975
66	47.287	48.584	45.881	132	94.547	95.870	93.141	197	141.097	142.430	139.686
67	48.003	49.300	46.584	133	95.263	96.586	93.850	198	141.813	143.145	140.407
68	48.719	50.018	47.313	134	95.979	97.304	94.573	199	142.529	143.861	141.119
69	49.435	50.733	48.016	135	96.695	98.019	95.283	200	143.245	144.578	141.839
70	50.151	51.451	48.745								

No. 200

2 1/2" Pitch

Sprocket Diameter



ROLLER CHAIN SPROCKET DIAMETERS

No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter
5	4.253	4.940	2.482	71	56.518	57.962	54.942	136	108.235	109.705	106.672
6	5.000	5.830	3.438	72	57.315	58.760	55.752	137	109.030	110.502	107.461
7	5.760	6.690	4.055	73	58.110	59.555	56.533	138	109.827	111.297	108.264
8	6.533	7.535	4.970	74	58.905	60.352	57.342	139	110.622	112.095	109.052
9	7.310	8.370	5.636	75	59.700	61.147	58.125	140	111.418	112.890	109.855
10	8.090	9.195	6.527	76	60.495	61.945	58.932	141	112.212	113.685	110.644
11	8.875	10.015	7.220	77	61.292	62.740	59.716	142	113.010	114.482	111.447
12	9.660	10.830	8.097	78	62.087	63.537	60.524	143	113.805	115.277	112.235
13	10.447	11.642	8.807	79	62.882	64.332	61.307	144	114.600	116.072	113.037
14	11.235	12.452	9.672	80	63.678	65.130	62.115	145	115.395	116.870	113.827
15	12.025	13.260	10.396	81	64.475	65.925	62.899	146	116.192	117.665	114.629
16	12.815	14.068	11.252	82	65.270	66.722	63.707	147	116.988	118.460	115.418
17	13.605	14.872	11.985	83	66.065	67.517	64.490	148	117.783	119.257	116.220
18	14.397	15.678	12.834	84	66.860	68.315	65.297	149	118.580	120.052	117.010
19	15.190	16.478	13.574	85	67.655	69.110	66.082	150	119.375	120.850	117.812
20	15.980	17.285	14.417	86	68.452	69.905	66.889	151	120.170	121.645	118.601
21	16.775	18.088	15.164	87	69.247	70.702	67.673	152	120.965	122.440	119.402
22	17.567	18.888	16.004	88	70.043	71.497	68.480	153	121.762	123.237	120.193
23	18.360	19.690	16.754	89	70.838	72.295	69.265	154	122.558	124.032	120.995
24	19.153	20.490	17.590	90	71.635	73.090	70.072	155	123.354	124.827	121.784
25	19.947	21.290	18.345	91	72.430	73.887	70.856	156	125.150	125.624	122.587
26	20.740	22.090	19.177	92	73.225	74.682	71.662	157	124.945	126.420	123.376
27	21.535	22.890	19.935	93	74.020	75.480	72.448	158	125.740	127.215	124.177
28	22.327	23.688	20.764	94	74.817	76.275	73.254	159	126.537	128.012	124.967
29	23.123	24.488	21.526	95	75.612	77.070	74.039	160	127.332	128.807	125.769
30	23.917	25.285	22.354	96	76.408	77.867	74.845	161	128.127	129.602	126.559
31	24.710	26.085	23.117	97	77.205	78.662	75.631	162	128.923	130.400	127.360
32	25.505	26.882	23.942	98	78.000	79.460	76.437	163	129.720	131.195	128.150
33	26.300	27.682	24.708	99	78.795	80.255	77.222	164	130.515	131.990	128.952
34	27.095	28.480	25.532	100	79.590	81.052	78.027	165	131.310	132.787	129.742
35	27.890	29.280	26.300	101	80.385	81.847	78.814	166	132.107	133.582	130.544
36	28.685	30.075	27.122	102	81.182	82.642	79.619	167	132.903	134.380	131.333
37	29.480	30.872	27.890	103	81.977	83.440	80.405	168	133.697	135.175	132.134
38	30.275	31.670	28.712	104	82.773	84.235	81.210	169	134.495	135.970	132.925
39	31.070	32.468	29.481	105	83.570	85.032	81.997	170	135.290	136.767	133.727
40	31.865	33.265	30.302	106	84.365	85.827	82.802	171	136.085	137.562	134.516
41	32.660	34.062	31.072	107	85.160	86.622	83.588	172	136.880	138.357	135.317
42	33.455	34.860	31.892	108	85.955	87.420	84.392	173	137.677	139.155	136.108
43	34.250	35.658	32.663	109	86.753	88.215	85.180	174	138.472	139.950	136.909
44	35.045	36.455	33.482	110	87.547	89.012	85.984	175	139.268	140.745	137.700
45	35.840	37.252	34.254	111	88.342	89.808	86.771	176	140.065	141.542	138.502
46	36.635	38.047	35.072	112	89.137	90.603	87.574	177	140.860	142.337	139.291
47	37.430	38.845	35.846	113	89.935	91.400	88.363	178	141.655	143.132	140.092
48	38.225	39.642	36.662	114	90.730	92.195	89.167	179	142.450	143.930	140.883
49	39.020	40.440	37.437	115	91.525	92.992	89.954	180	143.247	144.725	141.684
50	39.815	41.238	38.252	116	92.320	93.787	90.757	181	144.042	145.520	142.474
51	40.610	42.032	39.028	117	93.117	94.582	91.546	182	144.838	146.318	143.275
52	41.405	42.830	39.842	118	93.912	95.380	92.349	183	145.635	147.113	144.066
53	42.200	43.627	40.619	119	94.707	96.175	93.137	184	146.430	147.908	144.867
54	42.995	44.422	41.432	120	95.505	96.970	93.942	185	147.225	148.705	145.657
55	43.790	45.220	42.211	121	96.300	97.767	94.729	186	148.020	149.500	146.457
56	44.587	46.018	43.024	122	97.095	98.562	95.532	187	148.817	150.295	147.249
57	45.383	46.812	43.802	123	97.890	99.360	96.320	188	149.612	151.093	148.049
58	46.177	47.610	44.614	124	98.687	100.155	97.124	189	150.408	151.888	148.840
59	46.973	48.408	45.393	125	99.482	100.950	97.912	190	151.205	152.683	149.642
60	47.768	49.202	46.205	126	100.278	101.747	98.715	191	152.000	153.480	150.432
61	48.565	50.000	46.964	127	101.075	102.542	99.503	192	152.795	154.275	151.232
62	49.360	50.795	47.797	128	101.870	103.337	100.307	193	153.590	155.070	152.023
63	50.155	51.593	48.576	129	102.665	104.135	101.095	194	154.387	155.868	152.824
64	50.950	52.390	49.387	130	103.460	104.930	101.897	195	155.183	156.663	153.615
65	51.745	53.185	50.167	131	104.257	105.727	102.686	196	155.977	157.458	154.414
66	52.540	53.982	50.977	132	105.052	106.522	103.489	197	156.775	158.255	155.206
67	53.337	54.777	51.759	133	105.847	107.317	104.278	198	157.570	159.050	156.007
68	54.132	55.575	52.569	134	106.643	108.115	105.080	199	158.365	159.845	156.798
69	54.927	56.370	53.350	135	107.440	108.910	105.869	200	159.162	160.643	157.599



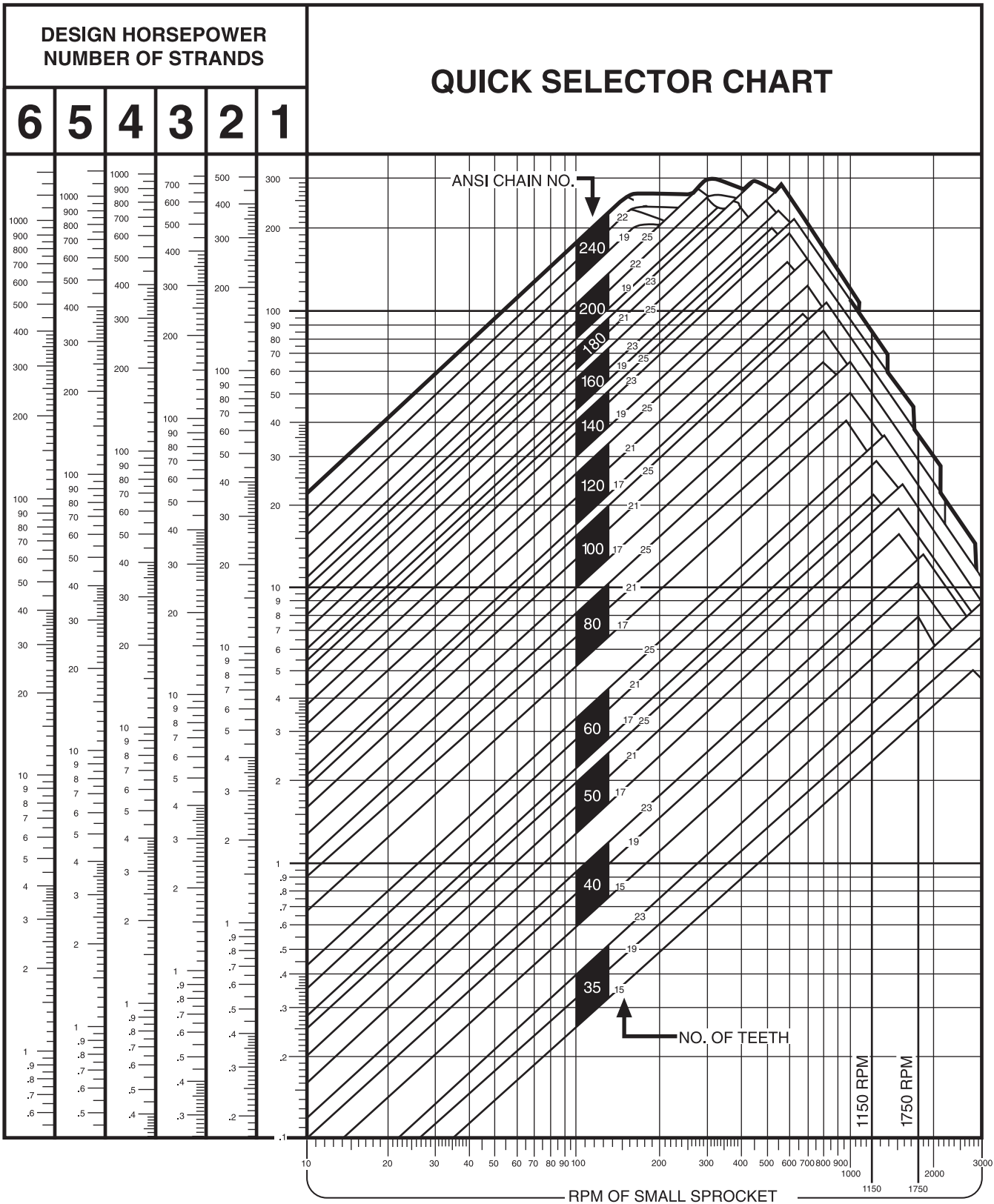
Sprocket Diameter

No. 240 3" Pitch

ROLLER CHAIN SPROCKET DIAMETERS

No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter
6	6.000	7.00	4.125	45	43.007	44.70	41.105	83	79.278	81.02	77.388
7	6.914	8.03	4.866	46	43.961	45.66	42.086	84	80.233	81.98	78.358
8	7.839	9.04	5.964	47	44.915	46.61	43.013	85	81.188	82.93	79.298
9	8.771	10.04	6.764	48	45.869	47.57	43.994	86	82.142	83.89	80.267
10	9.708	11.03	7.833	49	46.824	48.53	44.925	87	83.097	84.84	81.207
11	10.649	12.02	8.666	50	47.778	49.49	45.903	88	84.052	85.80	82.177
12	11.591	13.00	9.716	51	48.732	50.44	46.833	89	85.006	86.75	83.116
13	12.536	13.97	10.568	52	49.687	51.40	47.812	90	85.961	87.71	84.086
14	13.482	14.94	11.607	53	50.641	52.35	48.744	91	86.916	88.67	85.026
15	14.429	15.91	12.473	54	51.595	53.31	49.720	92	87.871	89.62	85.996
16	15.377	16.88	13.502	55	52.550	54.26	50.654	93	88.825	90.58	86.938
17	16.327	17.85	14.383	56	53.504	55.22	51.629	94	89.780	91.53	87.905
18	17.276	18.81	15.401	57	54.458	56.18	52.562	95	90.735	92.48	88.848
19	18.227	19.78	16.289	58	55.413	57.13	53.538	96	91.690	93.44	89.815
20	19.177	20.74	17.302	59	56.368	58.09	54.473	97	92.645	94.40	90.758
21	20.129	21.71	18.197	60	57.322	59.04	55.447	98	93.599	95.35	91.724
22	21.080	22.67	19.205	61	58.277	60.00	56.384	99	94.554	96.31	92.667
23	22.032	23.63	20.106	62	59.231	60.95	57.356	100	95.507	97.26	93.634
24	22.984	24.59	21.109	63	60.185	61.91	58.292	101	96.463	98.22	94.676
25	23.936	25.55	22.013	64	61.140	62.87	59.265	102	97.418	99.17	95.543
26	24.889	26.51	23.014	65	62.095	63.82	60.202	103	98.373	100.13	96.486
27	25.841	27.47	23.921	66	63.049	64.78	61.174	104	99.328	101.08	97.453
28	26.794	28.43	24.919	67	64.004	65.73	62.111	105	100.283	102.04	98.396
29	27.747	29.39	25.833	68	64.958	66.69	63.083	106	101.237	102.99	99.362
30	28.700	30.34	26.825	69	65.913	67.64	64.023	107	102.192	103.95	100.305
31	29.654	31.30	27.740	70	66.868	68.60	64.993	108	103.147	104.90	101.272
32	30.607	32.26	28.732	71	67.822	69.56	65.932	109	104.102	105.86	102.215
33	31.560	33.22	29.649	72	68.777	70.51	66.902	110	105.056	106.82	103.181
34	32.514	34.18	30.639	73	69.731	71.45	67.841	111	106.011	107.77	104.124
35	33.467	35.13	31.559	74	70.686	72.42	68.811	112	106.966	108.72	105.091
36	34.421	36.09	32.546	75	71.641	73.38	69.751	113	107.922	109.68	106.035
37	35.375	37.05	33.467	76	72.595	74.33	70.720	114	108.876	110.63	107.001
38	36.329	38.00	34.454	77	73.550	75.29	71.660	115	109.830	111.59	107.943
39	37.283	38.96	35.378	78	74.505	76.25	72.630	116	110.786	112.55	108.911
40	38.237	39.92	36.362	79	75.459	77.20	73.569	117	111.740	113.50	109.820
41	39.191	40.88	37.286	80	76.414	78.16	74.539	118	112.695	114.46	110.810
42	40.145	41.83	38.270	81	77.369	79.11	75.479	119	113.650	115.41	111.750
43	41.099	42.79	39.197	82	78.323	80.07	76.448	120	114.605	116.36	112.730
44	42.053	43.75	40.178								

Horsepower Table

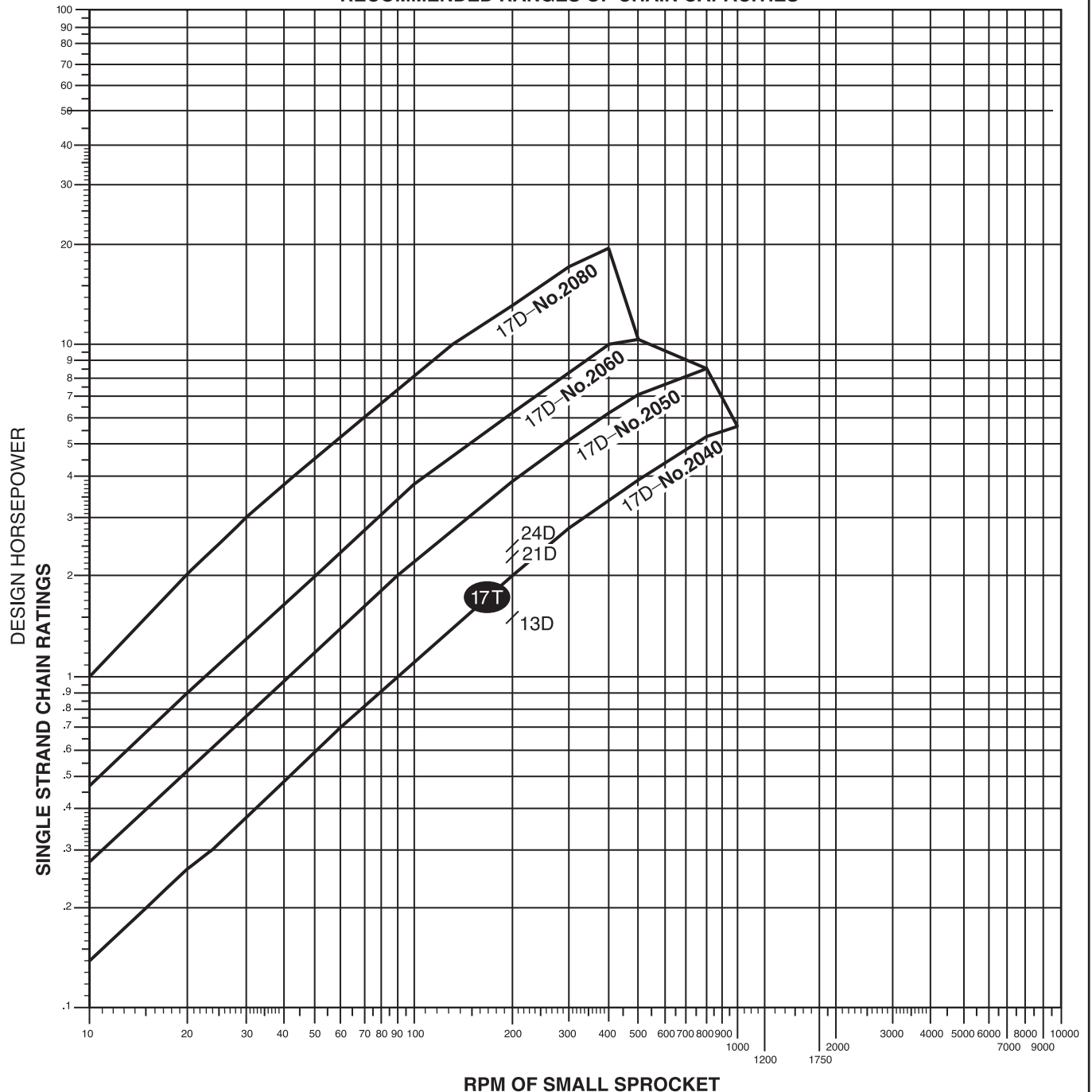


DOUBLE PITCH CHAIN

Sloping Lines Represent Horsepower Ratings for Chains with 17 Tooth Sprockets

QUICK SELECTOR CHART

RECOMMENDED RANGES OF CHAIN CAPACITIES





Horsepower Ratings Single Strand Roller Chain

For Multiple Strand Ratings See Chart at Bottom

1/2" Pitch No. 40																		
No. of Teeth Small Sprocket	REVOLUTIONS PER MINUTE — SMALL SPROCKET																	
	50	100	200	400	500	700	900	1200	1800	2400	3000	3500	4000	5000	6000	7000	8000	
11	0.23	0.43	0.80	1.50	1.83	2.48	3.11	4.63	6.06	8.03	10.17	12.50	15.00	1.01	0.77	0.61	0.50	
12	0.25	0.47	0.88	1.65	2.01	2.73	3.42	5.09	6.76	9.03	11.50	14.25	17.25	1.15	0.87	0.69	0.57	
13	0.28	0.52	0.96	1.80	2.20	2.97	3.73	5.55	7.43	9.89	12.75	15.75	19.50	1.29	0.98	0.78	0.64	
14	0.30	0.56	1.04	1.95	2.38	3.22	4.04	6.01	8.03	10.75	13.75	17.00	20.50	1.45	1.10	0.87	0.71	
15	0.32	0.60	1.12	2.10	2.56	3.47	4.35	6.47	8.64	11.50	14.75	18.25	22.25	1.60	1.22	0.97	0.79	
16	0.35	0.65	1.20	2.25	2.75	3.72	4.66	6.94	9.31	12.37	15.87	20.00	24.12	1.77	1.34	1.07	0.87	
17	0.37	0.69	1.29	2.40	2.93	3.97	4.98	7.41	9.96	13.25	17.12	21.50	26.25	1.94	1.47	1.17	0.96	
18	0.39	0.73	1.37	2.55	3.12	4.22	5.30	7.88	10.62	14.25	18.50	23.25	28.50	2.11	1.60	1.27	...	
19	0.42	0.78	1.45	2.71	3.31	4.48	5.62	8.36	11.05	15.00	19.75	25.00	30.75	2.29	1.74	1.38	...	
20	0.44	0.82	1.53	2.86	3.50	4.73	5.94	8.83	11.11	15.25	20.00	25.25	31.00	2.47	1.88	1.49	...	
21	0.46	0.87	1.62	3.02	3.69	4.99	6.26	9.31	11.77	15.75	20.62	26.12	32.00	2.66	2.02	1.60	...	
22	0.49	0.91	1.70	3.17	3.88	5.25	6.58	9.79	12.33	16.37	21.37	27.00	33.00	2.85	2.17	1.72	...	
23	0.51	0.96	1.78	3.33	4.07	5.51	6.90	10.33	12.99	17.12	22.12	28.00	34.00	3.05	2.32	1.84	...	
24	0.54	1.00	1.87	3.48	4.26	5.76	7.23	10.83	13.55	17.87	22.87	29.00	35.00	3.25	2.47	1.96	...	
25	0.56	1.05	1.95	3.64	4.45	6.02	7.55	11.21	14.11	18.62	23.62	30.00	36.00	3.45	2.63	...	...
26	0.58	1.09	2.04	3.80	4.64	6.28	7.88	11.71	14.77	19.37	24.37	31.00	37.00	3.66	2.79	...	...
28	0.63	1.18	2.20	4.11	5.03	6.81	8.54	12.77	15.99	21.37	26.37	33.00	39.00	4.11	3.11	...	...
30	0.68	1.27	2.38	4.43	5.42	7.33	9.20	13.77	17.21	23.37	28.37	35.00	41.00	4.54	3.45	...	...
32	0.73	1.36	2.55	4.75	5.81	7.86	9.86	14.77	18.41	25.37	30.37	37.00	43.00	5.00	...	...	...
35	0.81	1.50	2.81	5.24	6.40	8.66	10.9	16.21	20.33	27.37	32.37	39.00	45.00	5.76	...	...	...
40	0.93	1.74	3.24	6.05	7.39	10.0	12.5	18.77	23.4	30.37	35.37	41.00	47.00	6.99	...	...	...
45	1.06	1.97	3.68	6.87	8.40	11.4	14.2	21.21	26.6	33.37	38.37	43.00	49.00	...	...	...	...
Lubrication	Type A			Type B						Type C								

5/8" Pitch No. 50																		
No. of Teeth Small Sprocket	REVOLUTIONS PER MINUTE — SMALL SPROCKET																	
	50	100	300	500	900	1200	1400	1800	2100	2400	2700	3000	3500	4000	4500	5000	5500	6000
11	0.45	0.84	2.25	3.57	6.06	7.85	8.13	5.58	4.42	3.62	3.04	2.59	2.06	1.68	1.41	1.20	1.04	0.92
12	0.49	0.92	2.47	3.92	6.65	8.62	9.26	6.35	5.04	4.13	3.46	2.95	2.34	1.92	1.61	1.37	1.19	1.04
13	0.54	1.00	2.70	4.27	7.25	9.40	10.4	7.16	5.69	4.65	3.90	3.33	2.64	3.16	1.81	1.55	1.34	...
14	0.58	1.09	2.92	4.63	7.86	10.2	11.7	8.01	6.35	5.20	4.36	3.72	2.95	2.42	2.03	1.73	1.50	...
15	0.73	1.17	3.15	4.99	8.47	11.0	12.6	8.88	7.05	5.77	4.83	4.13	3.27	2.68	2.25	1.92	1.66	...
16	0.67	1.26	3.38	5.35	9.08	11.8	13.5	9.78	7.76	6.35	5.32	4.55	3.61	2.95	2.47	2.11	1.83	...
17	0.72	1.34	3.61	5.71	9.69	12.6	14.4	10.7	8.50	6.96	5.83	4.98	3.95	3.23	2.71	2.31	2.01	...
18	0.76	1.43	3.83	6.07	10.3	13.4	15.3	11.7	9.26	7.58	6.35	5.42	4.30	3.52	2.95	2.52	...	...
19	0.81	1.51	4.07	6.44	10.9	14.2	16.3	12.7	10.0	8.22	6.89	5.88	4.67	3.82	3.20	2.73	...	...
20	0.86	1.60	4.30	6.80	11.5	15.0	17.2	13.7	10.8	8.88	7.44	6.35	5.04	4.13	3.46	2.95	...	...
21	0.90	1.69	4.53	7.17	12.2	15.8	18.1	14.7	11.7	9.55	8.01	6.84	5.42	4.44	3.72	3.18	...	...
22	0.95	1.77	4.76	7.54	12.8	16.6	19.1	15.8	12.5	10.2	8.59	7.39	5.82	4.76	3.99	3.41	...	...
23	1.00	1.86	5.00	7.91	13.4	17.4	20.0	16.9	13.4	11.0	9.18	7.84	6.22	5.09	4.27	...	...	...
24	1.04	1.95	5.23	8.29	14.1	18.2	20.9	18.0	14.3	11.7	9.78	8.35	6.33	5.42	4.55	...	...	...
25	1.09	2.03	5.47	8.66	14.7	19.0	21.9	19.1	15.2	12.4	10.4	8.88	7.05	5.77	4.83	...	...	...
26	1.14	2.12	5.70	9.03	15.3	19.9	22.8	20.3	16.1	13.2	11.0	9.42	7.47	6.12	5.13	...	...	...
28	1.23	2.30	6.18	9.79	16.6	21.5	24.7	22.6	18.0	14.7	12.3	10.5	8.35	6.84	5.73	...	...	...
30	1.33	2.49	6.66	10.5	17.9	23.2	26.6	25.1	19.9	16.3	13.7	11.7	9.26	7.58	...	...	...	...
32	1.42	2.66	7.14	11.3	19.2	24.9	28.6	27.7	22.0	18.0	15.1	12.9	10.2	8.35	...	...	...	...
35	1.57	2.93	7.86	12.5	21.1	27.4	31.5	31.6	25.1	20.6	17.2	14.7	11.7	9.55	...	...	...	...
40	1.81	3.38	9.08	14.4	24.4	31.6	36.3	38.7	30.7	25.1	21.0	18.0	14.3	...	...	...	...	...
45	2.06	3.84	10.3	16.3	27.7	35.9	41.3	46.1	36.6	30.0	25.1	21.4	...	...	...	...	...	...
Lubrication	Type A	Type B			Type C													

Multiple Strand Factors

Type A Manual Lubrication
Type B Bath or Disc Lubrication
Type C Oil Stream Lubrication

No. Strands	Strand Factor
1	1.0
2	1.9
3	2.8
4	3.7



Horsepower Ratings Single Strand Roller Chain

For Multiple Strand Ratings See Chart at Bottom

1½" Pitch No. 120																									
No. of Teeth Small Sprocket	REVOLUTIONS PER MINUTE — SMALL SPROCKET																								
	10	25	50	100	150	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100
11	1.37	3.12	5.83	10.9	15.7	20.3	29.2	37.9	46.3	54.6	46.3	37.9	31.8	27.1	23.5	20.6	18.3	16.4	13.8	14.4	12.2	11.2	10.4	9.59	...
12	1.50	3.43	6.40	11.9	17.2	22.3	32.1	41.6	50.9	59.9	52.8	43.2	36.2	30.9	26.8	23.5	20.9	18.7	16.8	15.3	13.9	12.8	11.8	10.9	...
13	1.64	3.74	6.98	13.0	18.8	24.3	35.0	45.4	55.5	65.3	59.5	48.7	40.8	34.9	30.2	26.5	23.5	21.0	19.0	17.2	15.7	14.4	13.3	12.3	...
14	1.78	4.05	7.56	14.1	20.3	26.3	37.9	49.1	60.1	70.8	66.5	54.4	45.6	39.0	33.8	29.6	26.3	23.5	21.2	19.2	17.6	16.1	14.9	8.94	...
15	1.91	4.37	8.15	15.2	21.9	28.4	40.9	53.0	64.7	76.3	73.8	60.4	50.6	43.2	37.4	32.9	29.1	26.1	23.5	21.3	19.5	17.0	16.5	...	...
16	2.05	4.68	8.74	16.3	23.5	30.4	43.8	56.8	69.4	81.8	81.3	66.5	55.7	47.6	41.2	36.2	32.1	28.7	25.9	23.5	21.5	19.7	18.2	...	...
17	2.19	5.00	9.33	17.4	25.1	32.5	46.8	60.6	74.1	87.3	89.0	72.8	61.0	52.1	45.2	39.6	35.2	31.5	28.4	25.8	23.5	21.6	19.9	...	...
18	2.33	5.32	9.92	18.5	26.7	34.6	49.8	64.5	78.8	92.9	97.0	79.4	66.5	56.8	49.2	43.2	38.3	34.3	30.9	28.1	25.6	23.5	11.3	...	...
19	2.47	5.64	10.5	19.6	28.3	36.6	52.8	68.4	83.6	98.5	105	86.1	72.1	61.6	53.4	46.8	41.5	37.2	33.5	30.4	27.8	25.5	...	...	...
20	2.61	5.96	11.1	20.7	29.9	38.7	55.8	72.2	88.3	104	114	92.9	77.9	66.5	57.6	50.6	44.9	40.1	36.2	32.9	30.0	27.5	...	...	...
21	2.75	6.28	11.7	21.9	31.5	40.8	58.8	76.2	98.1	110	122	100	83.8	71.6	62.0	54.4	48.3	43.2	39.0	35.4	32.3	29.6	...	...	...
22	2.90	6.60	12.3	23.0	33.1	42.9	61.8	80.1	97.9	115	131	107	89.9	76.7	66.5	58.4	51.8	46.3	41.8	37.9	34.6	16.6	...	...	...
23	3.04	6.93	12.9	24.1	34.8	45.0	64.9	84.0	103	121	139	115	96.1	82.0	71.1	62.4	55.3	49.5	44.6	40.5	37.0	...	...	...	...
24	3.18	7.25	13.5	25.3	36.4	47.1	67.9	88.0	108	127	146	122	102	87.4	75.8	66.5	59.0	52.8	47.6	43.2	39.4	...	...	...	...
25	3.32	7.58	14.1	26.4	38.0	49.3	71.0	91.9	112	132	152	130	109	92.9	80.6	70.7	62.7	56.1	50.6	45.9	41.3	...	...	...	...
26	3.47	7.91	14.8	27.5	39.7	51.4	74.0	95.9	117	138	159	138	115	98.6	85.4	75.0	66.5	59.5	53.7	48.7	26.6	...	...	...	...
28	3.76	8.57	16.0	29.8	43.0	55.7	80.2	104	127	150	172	154	129	110	95.5	83.8	74.3	66.5	60.0	54.4	...	...	...	...	...
30	4.05	9.23	17.2	32.1	46.3	60.0	86.4	112	137	161	185	171	143	122	106	92.9	82.4	73.8	66.5	42.4	...	...	...	...	...
32	4.34	9.90	18.5	34.5	49.6	64.3	92.6	120	147	173	199	188	158	135	117	102	90.8	81.3	73.3	...	...	...	...	...	...
35	4.78	10.9	20.3	38.0	54.7	70.9	102	132	162	190	219	215	180	154	133	117	104	92.9	47.7	...	...	...	...	...	...
40	5.52	12.6	23.5	43.9	63.2	81.8	118	153	187	220	253	263	220	188	163	143	127	59.5	...	...	...	...	...	...	...
45	6.27	14.3	26.7	49.8	71.7	92.9	134	173	212	250	287	314	263	224	195	171	80.0	...	...	...	...	...	...	...	...
Lubrication	Type A	Type B										Type C													

1¾" Pitch No. 140																									
No. of Teeth Small Sprocket	REVOLUTIONS PER MINUTE — SMALL SPROCKET																								
	10	25	50	100	150	200	250	300	350	400	450	500	550	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700
11	2.12	4.83	9.02	16.8	24.2	31.4	38.4	45.2	52.0	58.6	65.2	71.6	75.2	66.0	52.4	42.9	35.9	30.7	26.6	23.3	20.7	18.5	16.7	15.2	...
12	2.33	5.31	9.91	18.5	26.6	34.5	42.2	49.7	57.1	64.4	71.6	78.7	85.7	75.2	59.7	48.9	41.0	35.0	30.3	26.6	23.6	21.1	19.0	17.3	...
13	2.54	5.79	10.8	20.2	29.0	37.6	46.0	54.2	62.2	70.2	78.0	85.8	93.5	84.8	67.3	55.1	46.2	39.4	34.2	30.0	26.5	23.8	21.5	19.5	...
14	2.75	6.27	11.7	21.8	31.5	40.8	49.8	58.7	67.4	76.0	84.5	93.0	101	94.8	75.2	61.6	51.6	44.1	38.2	33.5	29.7	26.6	24.0	21.8	...
15	2.96	6.76	12.6	23.5	33.9	43.9	53.7	63.2	72.7	81.9	91.1	100	109	105	83.4	68.3	57.2	48.9	42.4	37.2	33.0	29.5	26.6	...	...
16	3.18	7.24	13.5	25.2	36.3	47.1	57.5	67.8	77.9	87.8	97.7	107	117	116	91.9	75.2	63.1	53.8	46.7	41.0	36.3	32.5	29.3	...	...
17	3.39	7.73	14.4	26.9	38.8	50.3	61.4	72.4	83.2	93.8	104	115	125	127	101	82.4	69.1	59.0	51.1	44.9	39.8	35.6	32.1	...	...
18	3.61	8.23	15.4	28.6	41.3	53.5	65.3	77.0	88.5	99.8	111	122	133	138	110	89.8	75.2	64.2	55.7	48.9	43.3	38.8	35.0	...	...
19	3.82	8.72	16.3	30.4	43.7	56.7	60.3	81.6	93.8	106	118	129	141	150	119	97.4	81.6	69.7	50.4	53.0	47.0	42.1	37.9	...	...
20	4.04	9.22	17.2	32.1	46.2	59.9	73.2	86.3	99.1	112	124	137	149	161	128	105	88.1	75.2	65.2	57.2	50.8	45.4	...	...	...
21	4.26	9.72	18.1	33.8	48.7	63.1	77.2	91.0	104	118	131	144	157	170	138	113	94.8	80.9	70.2	61.6	54.6	48.9	...	...	...
22	4.48	10.2	19.1	35.6	51.3	66.4	81.2	95.6	110	124	138	151	165	178	148	121	102	86.8	75.2	66.0	58.6	52.4	...	...	...
23	4.70	10.7	20.0	37.3	53.8	69.7	85.2	100	115	130	145	159	173	187	158	130	109	92.8	80.4	70.6	62.6	56.0	...	...	...
24	4.92	11.2	20.9	39.1	56.3	72.9	89.2	105	121	136	151	166	181	196	169	138	116	98.9	85.7	75.2	66.7	59.7	...	...	...
25	5.14	11.7	21.9	40.8	58.8	76.2	93.2	110	126	142	158	174	189	205	180	147	123	105	91.1	80.0	70.9	63.5	...	...	...
26	5.37	12.2	22.8	42.6	61.4	79.5	97.2	115	132	148	165	181	198	214	190	156	131	112	96.7	84.8	75.2	...	...	...	...
28	5.81	13.3	24.7	46.2	66.5	86.2	105	124	143	161	179	197	214	232	213	174	146	125	108	94.8	84.1	...	...	...	...
30	6.26	14.3	26.7	49.7	71.6	92.8	113	134	154	173	193	212	231	249	236	193	162	138	120	105	93.2	...	...	...	...
32	6.71	15.3	28.6	53.3	76.8	99.5	122	143	165	186	206	227	247	267	260	213	178	152	132	116	...	...	...	...	...
35	7.40	16.9	31.5	58.7	84.6	110	134	158	181	205	227	250	272	295	297	243	204	174	151	130	...	...	...	...	...
40	8.54	19.5	36.4	67.9	97.7	127	155	182	210	236	263	289	315	340	363	297	249	213	178	...	...	...	...	...	...
45	9.70	22.1	41.3	77.1	111	144	176	207	238	268	298	328	357	387	434	355	297	237	192	...	...	...	...	...	...
Lubrication	Type A	Type B										Type C													

Type A Manual Lubrication
Type B Bath or Disc Lubrication
Type C Oil Stream Lubrication

Multiple Strand Factors

No. Strands	Strand Factor
1	1.0
2	1.9
3	2.8
4	3.7



Horsepower Ratings Single Strand Roller Chain

For Multiple Strand Ratings See Chart at Bottom

3" Pitch No. 240																				
No. of Teeth Small Sprocket	REVOLUTIONS PER MINUTE — SMALL SPROCKET																			
	5	10	15	20	25	30	40	50	60	80	100	125	150	175	200	250	300	350	400	450
11	4.86	9.08	13.1	16.9	20.7	24.4	31.6	38.6	45.5	59.0	72.1	88.1	104	119	135	164	194	223	187	156
12	5.34	9.97	14.4	18.6	22.7	26.8	34.7	42.4	50.0	64.8	79.2	96.8	114	131	148	181	213	245	218	...
13	5.83	10.9	15.7	20.3	24.8	29.2	37.9	46.3	54.5	70.6	86.4	106	124	143	161	197	232	267	240	...
14	6.31	11.8	17.0	22.0	26.9	31.7	41.0	50.1	59.1	76.5	93.6	114	135	155	175	213	251	289	268	...
15	6.80	12.7	18.3	23.7	28.9	34.1	44.2	54.0	63.6	82.4	101	123	145	167	188	230	274	311	297	...
16	7.29	13.6	19.6	25.4	31.0	36.6	47.4	57.9	68.2	88.4	108	132	156	179	202	247	290	334	328	...
17	7.78	14.5	20.9	27.1	33.1	39.0	50.6	61.8	72.9	94.4	115	141	166	191	215	263	310	356	359	...
18	8.28	15.4	22.3	28.8	35.2	41.5	53.8	65.8	77.5	100	123	150	177	203	229	280	330	379	377	...
19	8.78	16.4	23.6	30.6	37.4	44.0	57.0	69.7	82.2	106	130	159	187	215	243	297	360	402	393	...
20	9.28	17.3	24.9	32.3	39.5	46.5	60.3	73.7	86.8	112	138	168	198	228	257	314	370	423	407	...
21	9.78	18.2	26.3	34.1	41.6	49.0	63.5	77.7	91.5	119	145	177	209	240	270	331	390	439	421	...
22	10.3	19.2	27.6	35.8	43.8	51.6	66.8	81.7	96.2	125	152	186	220	252	284	348	410	454	435	...
23	10.8	20.1	29.0	37.6	45.9	54.1	70.1	85.7	101	131	160	195	230	265	298	365	430	469	448	...
24	11.3	21.1	30.4	39.3	48.1	56.7	73.4	89.7	106	137	167	205	241	277	312	282	450	483	...	...
25	11.8	22.0	31.7	41.1	50.3	59.2	76.7	93.8	110	143	175	214	252	290	327	399	470	496	...	...
26	12.3	23.0	33.1	42.9	52.4	61.8	80.0	97.8	115	149	183	223	263	302	341	416	491	509	...	...

American Standard No. 2040																	
No. of Effective Teeth in Small Sprocket	REVOLUTIONS PER MINUTE — SMALL SPROCKET																
	25	50	100	150	200	250	300	400	500	600	700	800	900	1000	1100	1200	1300
11	.202	.379	.687	.958	1.19	1.41	1.59	1.89	2.14	2.32							
12	.223	.419	.766	1.07	1.34	1.58	1.81	2.16	2.46	2.71	2.88						
13	.243	.458	.842	1.18	1.48	1.76	2.00	2.44	2.79	3.08	3.31	3.48					
14	.263	.497	.914	1.28	1.63	1.93	2.20	2.67	3.09	3.44	3.70	3.91	4.10				
15	.283	.535	.989	1.39	1.76	2.09	2.40	2.93	3.38	3.77	4.08	4.32	4.52	4.67			
16	.303	.572	1.06	1.49	1.89	2.25	2.59	3.17	3.67	4.09	4.44	4.73	4.96	5.13			
17	.322	.611	1.13	1.59	2.02	2.41	2.77	3.41	3.95	4.41	4.80	5.10	5.38	5.57	5.72		
18	.342	.648	1.20	1.70	2.15	2.57	2.94	3.63	4.21	4.71	5.13	5.48	5.76	5.97	6.15		
19	.361	.687	1.27	1.80	2.28	2.72	3.14	3.86	4.49	5.02	5.48	5.85	6.17	6.41	6.61	6.70	
20	.380	.720	1.34	1.90	2.40	2.87	3.29	4.07	4.72	5.29	5.76	6.17	6.50	6.77	6.98	7.13	
21	.399	.758	1.41	1.99	2.52	3.01	3.47	4.27	4.97	5.57	6.07	6.50	6.86	7.13	7.35	7.50	
22	.419	.794	1.48	2.08	2.64	3.15	3.63	4.48	5.20	5.83	6.37	6.81	7.18	7.48	7.71	7.87	
23	.437	.829	1.54	2.18	2.76	3.30	3.79	4.68	5.42	6.09	6.64	7.11	7.49	7.80	8.04	8.21	8.30
24	.456	.866	1.60	2.27	2.88	3.44	3.96	4.87	5.67	6.35	6.92	7.40	7.80	8.12	8.37	8.54	8.63
25	.475	.902	1.67	2.36	3.00	3.58	4.11	5.07	5.90	6.60	7.19	7.73	8.10	8.42	8.67	8.84	8.94
30	.568	1.076	1.99	2.81	3.56	4.24	4.86	5.95	6.93	7.76	8.40	8.90	9.38	9.72	9.95	10.09	10.15
35	.657	1.247	2.30	3.24	4.09	4.86	5.56	6.81	7.86	8.71	9.42	9.99	10.43	10.72	10.93	10.97	
40	.748	1.413	2.60	3.65	4.59	5.44	6.22	7.57	8.67	9.60	10.31	10.86	11.23	11.49	11.61		
Lubrication type	1			2				3									

American Standard No. 2050																	
No. of Effective Teeth in Small Sprocket	REVOLUTIONS PER MINUTE — SMALL SPROCKET																
	25	50	100	150	200	250	300	350	400	450	500	550	600	700	800	900	
11	.385	.72	1.29	1.78	2.19	2.56	2.85	3.12	3.33	3.53							
12	.428	.80	1.44	1.99	2.48	2.90	3.26	3.58	3.86	4.10	4.31						
13	.457	.87	1.59	2.20	2.74	3.23	3.65	4.03	4.36	4.66	4.91	5.11	5.30				
14	.506	.95	1.73	2.41	3.01	3.55	4.02	4.45	4.84	5.17	5.48	5.73	5.96				
15	.544	1.02	1.87	2.61	3.27	3.86	4.39	4.88	5.31	5.68	6.02	6.31	6.57	6.94			
16	.582	1.09	2.00	2.81	3.52	4.16	4.74	5.26	5.73	6.16	6.55	6.87	7.19	7.61			
17	.620	1.16	2.14	2.99	3.77	4.46	5.09	5.66	6.17	6.63	7.05	7.42	7.75	8.24	8.62		
18	.658	1.23	2.27	3.19	4.01	4.75	5.41	6.03	6.58	7.09	7.54	7.94	8.31	8.84	9.28		
19	.696	1.31	2.41	3.39	4.25	5.05	5.76	6.42	7.00	7.55	8.04	8.46	8.87	9.42	9.90		
20	.732	1.38	2.54	3.56	4.48	5.32	6.07	6.75	7.38	7.95	8.46	8.92	9.35	9.97	10.49		
21	.769	1.45	2.66	3.75	4.70	5.59	6.38	7.10	7.77	8.37	8.90	9.39	9.84	10.50	11.06	11.44	
22	.806	1.52	2.79	3.92	4.92	5.86	6.69	7.45	8.14	8.76	9.33	9.84	10.31	11.01	11.59	12.00	
23	.842	1.58	2.91	4.09	5.16	6.12	6.98	7.78	8.50	9.15	9.74	10.27	10.76	11.50	12.10	12.52	
24	.879	1.65	3.05	4.27	5.37	6.38	7.28	8.10	8.85	9.54	10.16	10.70	11.21	11.97	12.59	13.03	
25	.914	1.72	3.17	4.45	5.59	6.62	7.58	8.42	9.20	9.91	10.55	11.12	11.64	12.42	13.05	13.50	
30	1.092	2.06	3.77	5.28	6.63	7.84	8.93	9.92	10.82	11.62	12.35	12.99	13.57	14.39	15.06	15.48	
36	1.267	2.38	4.35	6.07	7.59	8.96	10.18	11.27	12.26	13.14	13.92	14.59	15.17	16.00	16.62	16.94	
40	1.44	2.70	4.91	6.82	8.51	10.00	11.33	12.51	13.57	14.49	15.28	15.95	16.57	17.29	17.78		
Lubrication type	1			2				3									

Type 1: Manual drip (4 to 10 drops per minute), or splash.
 Type 2: Rapid drip (20 drops per minute minimum), splash, or disc.
 Type 3: Disc or forced.

No. Strands	Strand Factor
2	1.7
3	2.5
4	3.3

Horsepower Ratings Single Strand Roller Chain



For Multiple Strand Ratings See Chart at Bottom

American Standard No. 2060																	
No. of Effective Teeth In Small Sprocket	REVOLUTIONS PER MINUTE — SMALL SPROCKET																
	25	50	75	100	125	150	200	250	300	350	400	450	500	550	600	650	700
11	.66	1.21	1.70	2.15	2.54	2.93	3.58	4.12	4.56	4.93							
12	.73	1.34	1.90	2.41	2.85	3.30	4.05	4.70	5.24	5.71	6.08						
13	.79	1.48	2.09	2.65	3.15	3.65	4.52	5.27	5.91	6.46	6.92	7.32					
14	.86	1.60	2.27	2.90	3.45	4.00	4.97	5.79	6.54	7.17	7.72	8.18	8.58				
15	.92	1.72	2.45	3.14	3.74	4.34	5.39	6.32	7.14	7.86	8.48	9.01	9.48				
16	.99	1.85	2.64	3.36	4.01	4.66	5.82	6.82	7.73	8.52	9.21	9.80	10.34	10.77			
17	1.05	1.97	2.82	3.59	4.28	4.98	6.22	7.32	8.29	9.14	9.91	10.56	11.14	11.64	12.06		
18	1.12	2.10	2.99	3.82	4.56	5.31	6.63	7.82	8.85	9.78	10.60	11.31	11.96	12.50	12.97		
19	1.18	2.23	3.17	4.05	4.83	5.62	7.03	8.29	9.42	10.41	11.29	12.08	12.76	13.35	13.87	14.30	
20	1.25	2.34	3.34	4.26	5.09	5.93	7.41	8.74	9.92	10.97	11.91	12.74	13.46	14.08	14.64	15.10	
21	1.31	2.46	3.51	4.49	5.36	6.24	7.80	9.19	10.43	11.55	12.52	13.40	14.14	14.83	15.42	15.90	
22	1.37	2.58	3.67	4.70	5.62	6.54	8.16	9.62	10.93	12.08	13.13	14.04	14.84	15.55	16.15	16.67	
23	1.44	2.69	3.83	4.90	5.86	6.83	8.53	10.06	11.42	12.62	13.71	14.67	15.49	16.22	16.87	17.38	
24	1.50	2.80	4.00	5.11	6.11	7.12	8.90	10.47	11.90	13.16	14.28	15.27	16.14	16.89	17.56	18.11	
25	1.56	2.92	4.17	5.32	6.36	7.41	9.27	10.89	12.37	13.67	14.84	15.86	16.76	17.53	18.21	18.79	
30	1.86	3.48	4.96	6.32	7.55	8.78	10.94	12.76	14.55	16.05	17.38	18.54	19.53	20.38	21.11	21.70	
35	2.16	4.03	5.73	7.29	8.67	10.06	12.52	14.67	16.54	18.17	19.61	20.80	21.88	22.73	23.40	23.99	
40	2.45	4.55	6.46	8.20	9.70	11.31	13.99	16.33	18.35	20.08	21.57	22.84	23.86	24.64	25.42		
Lubrication Type	1					2					3						

American Standard No. 2080																	
No. of Effective Teeth In Small Sprocket	REVOLUTIONS PER MINUTE — SMALL SPROCKET																
	10	20	30	40	50	60	70	80	90	100	150	200	250	300	350	400	450
11	.66	1.24	1.78	2.26	2.76	3.20	3.60	3.99	4.38	4.78	6.36	7.60					
12	.72	1.37	1.96	2.52	3.08	3.56	4.03	4.48	4.92	5.36	7.20	8.68	9.82				
13	.79	1.49	2.15	2.77	3.36	3.91	4.44	4.95	5.45	5.93	8.02	9.73	11.08				
14	.85	1.62	2.33	3.01	3.66	4.26	4.85	5.42	5.96	6.49	8.82	10.75	12.29	13.60			
15	.91	1.74	2.52	3.25	3.95	4.60	5.25	5.86	6.45	7.03	9.60	11.74	13.46	14.94			
16	.98	1.87	2.70	3.48	4.24	4.94	5.64	6.29	6.93	7.56	10.36	12.70	14.59	16.24	17.65		
17	1.04	1.99	2.88	3.71	4.52	5.28	6.02	6.72	7.40	8.09	11.10	13.63	15.69	17.50	19.04		
18	1.11	2.11	3.05	3.94	4.80	5.61	6.40	7.14	7.87	8.60	11.82	14.53	16.76	18.72	20.38	21.77	
19	1.17	2.23	3.23	4.17	5.09	5.94	6.77	7.56	8.33	9.10	12.52	15.40	17.80	19.90	21.67	23.18	
20	1.23	2.35	3.40	4.40	5.36	6.26	7.13	7.98	8.78	9.60	13.20	16.25	18.81	21.04	22.91	24.52	
21	1.29	2.47	3.57	4.62	5.62	6.58	7.49	8.39	9.23	10.09	13.87	17.08	19.79	22.14	24.11	25.80	
22	1.36	2.58	3.74	4.84	5.90	6.89	7.84	8.79	9.67	10.57	14.53	17.90	20.74	23.20	25.27	27.03	
23	1.42	2.70	3.90	5.06	6.16	7.20	8.19	9.18	10.10	11.05	15.18	18.71	21.66	24.23	26.40	28.22	
24	1.48	2.82	4.05	5.27	6.43	7.51	8.54	9.56	10.53	11.52	15.82	19.51	22.55	25.23	27.50	29.38	
25	1.54	2.92	4.20	5.48	6.69	7.81	8.89	9.94	10.95	11.98	16.45	20.30	23.42	26.20	28.57	30.52	
30	1.84	3.50	5.02	6.54	7.96	9.29	10.59	11.74	12.97	14.23	19.46	23.91	27.52	30.70	33.56	35.52	
35	2.14	4.07	5.82	7.56	9.19	10.71	12.21	13.48	14.92	16.35	22.26	27.23	31.21	34.65	37.57	39.66	
40	2.43	4.61	6.60	8.55	10.38	12.09	13.76	15.17	16.80	18.36	24.88	30.28	34.52	38.09	40.96	43.07	
Lubrication Type	1								2				3				

Type 1: Manual drip (4 to 10 drops per minute), or splash.
 Type 2: Rapid drip (20 drops per minute minimum), splash, or disc.
 Type 3: Disc or forced.

No. Strands	Strand Factor
2	1.7
3	2.5
4	3.3

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Martin's Engineering Class Sprockets are manufactured to the highest quality standards. *Martin* offers Engineering Class Sprockets in both Flame Cut (Accu-Torch) and Cast Iron.

ASME Standard Torch Profiles – Elongated Root Design promotes a self-cleaning effect of the root to keep your demanding applications moving.

These sprockets are available in A, B, and C Hub Types:

- A style (no hub) typically used in weld-on applications.
- B style (hub one side) is used in applications where clearance width is narrow (these are typically more economical than C style).
- C style (hub both sides) which is used in applications where B style is not wide enough to withstand torques produced by drive.

Martin also offers Split Style construction. The split style allows for easy removal or installation. They can be used in nearly all applications. The shaft/keyway security is much tighter than a typical setscrew mount.

Flame hardening, induction heat treating, and chilled rim are available for longer wear life.



Steel Accu-Torch® Sprockets for Engineering Chain

Martin



Martin Accu-Torch® steel sprockets are available for virtually all engineering class chains in style A, B, and C. Also available as split with welded hub and split or solid detachable hub. May also be furnished as shear pin type. Send us your inquiries.

Where possible please specify chain number, pitch diameter, number of teeth, bore and keyway size, and hub style required.

Accu-Torch® sprockets are not intended to replace cut tooth roller chain sprockets.

MTO Engineered Class Sprockets



**ALL STEEL
WIDE DRAG SPROCKET**



**SPLINED MUD
RELIEF
ACCU-TORCH®**



**SPECIAL ACCU-TORCH®
FOR SEWAGE TREATMENT**



**10 FT. DIAMETER ACCU-TORCH®
FOR PAPER MILLS**



Martin Instant Split® / Accu-Torch® sprockets offer unlimited design and are simply installed with a hand wrench... greatly reducing costly downtime.



Accu-Torch® Size for Instant Split® Hubs

Split Hub Number	Bore	Minimum Number of Teeth										
		Chain Number / Pitch										
		62	78	1568	1030	82	238	124	1240	635	1207	132
		1.654	2.609	3.067	3.075	3.075	3.500	4.000	4.063	4.500	5000	6.050
S-1	.75" - 1.5"	9	7									
S-2	1.375" - 2.25"	12	8	8	8	7	8	6	7			
S-3	2" - 3"	15	10	10	9	9	9	7	8	8		
S-4	2.75" - 4"	18	12	12	11	11	10	9	9	9	8	
S-5	3.75" - 5"	21	14	13	13	12	12	10	10	10	9	7
S-6	4.75" - 6"	23	15	14	14	13	13	11	11	11	10	8
S-7	5.75" - 7"	27	18	16	16	15	15	12	13	12	11	9
S-8	6.25" - 8"	31	20	18	18	17	16	14	14	14	13	10

Pricing Example Style B
1030B25 Split with S-3 Hub,
2.938" Bore, KW and SS

S-3 Hub
1030A25 Plate

See Hub List
[See Plate List](#)
Total Price List

Pricing Example Style B
1030B25 Split with S-3 Hub,
2.938" Bore, KW and SS

Two S-3 Hubs
1030A25 Plate

See Hub List
[See Plate List](#)
Total Price List

Instant Split Hubs are for use with
Plate Sprockets only.

Hub Number	Bore	Hub O.D.	Hub ★ Length	Bolts	Weight (lb)
S-1	.75" - 1.5"	3.125"	1"	.375" × 2.25"	1.8
S-2	1.375" - 2.25"	4.375"	1.25"	.5" × 3"	4.1
S-3	2" - 3"	6"	1.375"	.625" × 4.5"	8.4
S-4	2.75" - 4"	7.625"	1.5"	.75" × 5.5"	14.4
S-5	3.75" - 5"	9.25"	2"	1" × 6"	27.8
S-6	4.75" - 6"	10.25"	2.25"	1" × 6"	35.4
S-7	5.75" - 7"	12.5"	2.5"	1" × 7"	64.4
S-8	6.25" - 8"	14.5"	3"	1" × 8"	98.5

★ Add hub length to plate thickness to determine length thru bore.



Solid and Split Detachable Hubs



TYPE D SPROCKETS — STOCK DETACHABLE HUBS

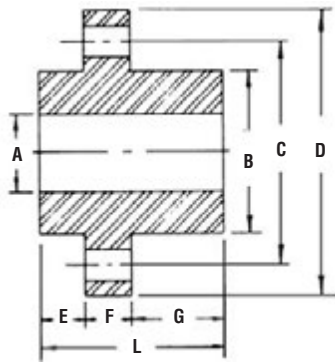
Type D sprockets consist of a Type A plate sprocket bolted to a detachable hub. A solid or split plate sprocket may be assembled to a solid or split hub. When ordering a Type D sprocket, be sure to select a plate sprocket large enough to allow chain clearance over the hub flange diameter, dimension D.

Bolt holes of Type D hubs are drilled for interchangeability. Speed ratios may be changed simply by removing the plate sprocket and substituting another with a different number of teeth. When worn, the sprocket may be reversed to use the unworn tooth surfaces, increasing the life of the sprocket.

Solid Hubs - Steel — Dimensions (Inches)

Hub Number	Bore Range A		Hub Diameter B	Bolt Circle C	Flange Diameter D	Bolt Holes		E	F	G★	L
	Stock	Maximum				Number	Bolt Size				
101	0.625	1.75	2.5	3.375	4.25	6	0.375	0.5	0.375	1.125	2
102	1.438	2	3	4	5	6	0.438	0.5	0.5	1.5	2.5
103	1.813	2.5	4	5.063	6	6	0.5	0.5	0.625	1.625	2.75
104	2.313	3	4.5	5.75	7	6	0.625	0.5	0.75	2	3.25
105	2.563	3.25	5	6.25	7.5	6	0.625	0.563	0.938	2.5	4
106	2.813	3.75	5.5	7	8.5	6	0.625	0.625	1	2.375	4
107	3.313	4	6	7.5	9	6	0.625	0.625	1.25	2.375	4.25
108	3.563	4.5	7	8.625	10.375	6	0.75	0.625	1.375	2.5	4.5
109	4.063	7	10.5	13	15.5	6	1	0.75	1.5	2.75	5

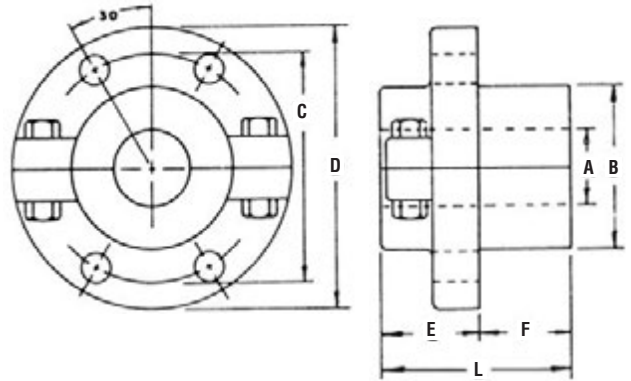
★Maximum bores shown are maximum bores with standard keyseat and setscrew.



ALTERATION CHARGES

See current list price and discount sheet for alteration charges.

The List Price as shown in the List Price Book is for hub with stock bore. To obtain the price of a complete Type D sprocket add the List Price of hub plus alteration charges and the List Price of the desired Type A plate sprocket, including rebore, bolt hole drilling, and splitting charge if desired.



Split Hubs - Cast Iron — Dimensions (Inches)

Hub Number	Bore Range A		Hub Diameter B	Bolt Circle C	Flange Diameter D	Bolt Holes		E	F★	L
	Stock	Maximum				Number	Bolt Size			
102S	1.313	1.5	3	4	5	4	0.438	1.75	1.375	3.125
103S	1.563	2.25	4	5.063	6	4	0.5	2	1.5	3.5
104S	2.313	2.5	4.5	5.75	7	4	0.625	2.25	1.75	4
105S	2.563	2.75	5	6.25	7.5	4	0.625	2.25	1.875	4.125
106S	2.813	3.25	5.5	7	8.5	4	0.625	2.5	2	4.5
107S	3.313	3.5	6	7.5	9	4	0.625	3	1.75	4.75
108S	3.563	4	7	8.625	10.375	4	0.75	3.375	1.875	5.25
109S	4.063	6	10.5	13	15.5	4	1	4.125	1.75	5.875

Maximum bores shown are maximum bores with standard keyseat and setscrew.

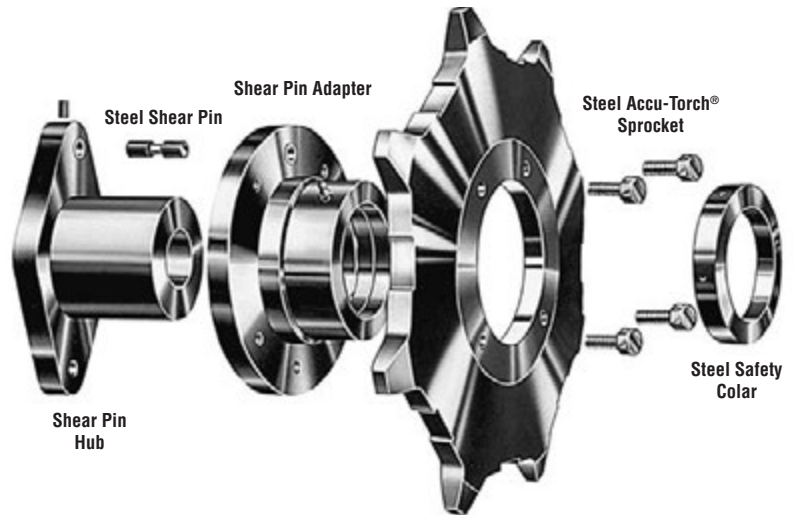
★Plate thickness of Accu-Torch® not recommended if larger than dimension listed.



Shear pin sprockets provide simple, dependable protection against expensive machinery damage caused by overloads or jamming. Torque is transmitted by a single pin, necked to shear when the safe load is exceeded. When an overload occurs, the pin shears, disconnecting the drive immediately.

The Bolt-On Shear Pin Adapter converts any plate sprocket into a stock shear pin sprocket allowing immediate delivery of stock shear pin sprockets.

Selection guide on page F-9 gives complete procedure to select the proper shear pin assembly.



Stock Shear Pin Assemblies

Shear Pin Assembly Part Number	Hub Bore Range	Shear Pin Hub Part Number	Shear Pin Adapter Part Number
SP-17	1" and UNDER	SPH-17	SPA-17
SP-18	1.063 - 1.25	SPH-18	SPA-18
SP-19	1.313 - 1.5	SPH-19	SPA-19
SP-20	1.563 - 1.75	SPH-20	SPA-20
SP-21	1.813 - 2	SPH-21	SPA-21
SP-22	2.063 - 2.25	SPH-22	SPA-22
SP-23	2.313 - 2.5	SPH-23	SPA-23
SP-24	2.563 - 2.75	SPH-24	SPA-24
SP-25	2.813 - 3	SPH-25	SPA-25
SP-26	3.063 - 3.5	SPH-26	SPA-26
SP-27	3.563 - 4	SPH-27	SPA-27
SP-28	4.063 - 4.5	SPH-28	SPA-28
SP-29	4.563 - 5	SPH-29	SPA-29
SP-30	4.875 - 5.5	SPH-30	SPA-30
SP-31	5.563 - 6	SPH-31	SPA-31

NOTES ON PRICING:

Shear Pin Hub List Price includes any finished bore within the stated range, standard keyway and setscrew, hardened steel shear pin bushing.

Shear Pin Adapter List Price includes the shear pin bushing, grease fitting.

Complete Assembly List Price includes all components of the shear pin assembly as described above. Total list price of any shear pin sprocket is the complete assembly list price plus the list price of the desired plate sprocket (from tables of stock sprocket list prices).

Replacement Sprockets should be priced as altered stock sprockets directly from List Price and Alteration Charge tables.

Shear Pin Components may be ordered separately and will be treated as stock items when conforming to standard specifications and descriptions above.

PRICING EXAMPLES:

1. Stock Shear Pin Accu-Torch® Sprocket

To price a 25 tooth shear pin sprocket for 1030 chain (1030SP25) using SP-26 shear pin assembly with 3.438" bore, standard keyway and setscrew:

SP-26 Assembly	See List Price Sheet
1030A25	

2. Shear Pin Adapter and Sprocket for Existing Hub

To price a "Bolt-on" shear pin adapter and sprocket to replace the sprocket part of existing 78A12 using SP-20 hub:

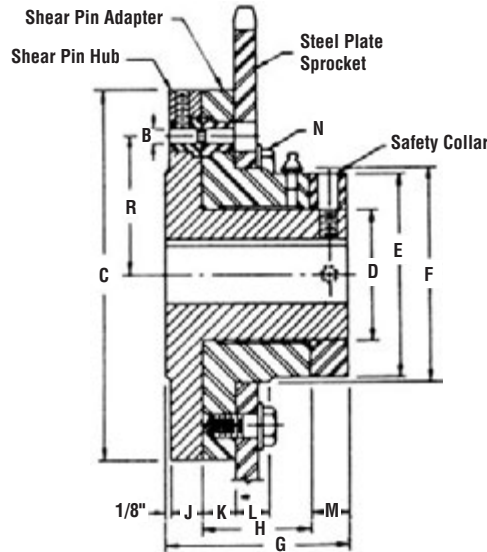
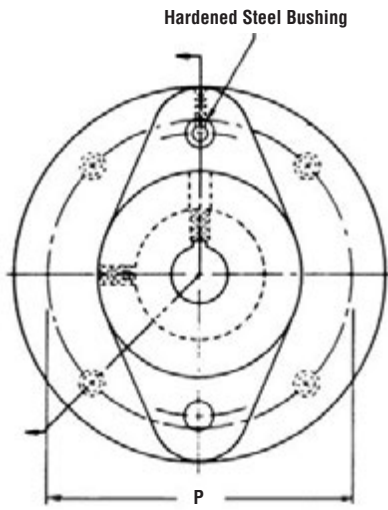
SPA-20 Adapter	See List Price Sheet
78A12	

Shear Pin Sprockets can also be furnished in other standard styles or made to customers specifications. Price on application.

It is important that torque requirement for selected hub be checked in torque rating on page F-9 and neck diameter of shear pins be specified.



Bolt-On Shear Pin Accu-Torch® Sprockets



Sprocket Sizes for Stock Shear Pin Assemblies

Shear Pin Assembly Number	Hub Bore Range	Minimum Teeth Number											
		Chain Number / Pitch											
		62	78	1568	1030	82	238	124	1240	635	1207	132	
		1.654	2.609	3.067	3.075	3.075	3.500	4.000	4.063	4.500	5.000	6.050	
SP-19	1.313 - 1.5	16											
SP-20	1.563 - 1.75	17	12										
SP-21	1.813 - 2	19	13					11					
SP-22	2.063 - 2.25	21	14	13	13	12	12						
SP-23	2.313 - 2.5	22	15	14	13	13	12		10				
SP-24	2.563 - 2.75	25	16	15	15	14	13		11	12	11		
SP-25	2.813 - 3	26	18	16	16	15	14		12	13	12		
SP-26	3.063 - 3.5	28	19	17	17	16	15		13	13	13		
SP-27	3.563 - 4	32	21	19	19	18	17		14	15	14		
SP-28	4.063 - 4.5	34	22	20	20	19	18		15	15	15		
SP-29	4.563 - 5	36	24	21	21	20	19		16	16	15		
SP-30	4.875 - 5.5	41	27	24	23	23	21		18	18	17		
SP-31	5.563 - 6	45	30	26	25	25	23		20	20	19		

AVAILABLE AS MADE TO ORDER
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Shear Pin Assembly Dimensions (Inches)

Shear Pin Assembly Number	Shear Pin		Diameters				Length Thru			Thickness		Sprocket Seat Width	Bolts		Weight (lb)	
	Radius	Pin Diameter	Flange	Shear Pin Hub	Adapter Hub and Collar	Sprocket Seat	Shear Pin Hub	Adapter	Collar	Hub Flange	Adapter Flange		Number and Size	Bolt Circle	Shear Pin Hub	Shear Pin Adapter
	A	B	C	D	E	F	G	H	M	J	K		L	N	P	
SP-19	2.563	0.313	6.75	2.75	4	4.125	3.563	2.125	0.625	0.688	0.688	0.688	4 - 0.5	5.5	7.2	7.6
SP-20	3	0.375	7.75	3.25	4.75	4.875	4.188	2.5	0.75	0.813	0.813	0.688	4 - 0.5	6.25	11.0	11.9
SP-21	3.313	0.438	8.75	3.75	5.25	5.375	4.813	2.875	0.875	0.938	0.938	0.938	4 - 0.625	7	16.2	16.9
SP-22	3.813	0.5	9.75	4.25	6.25	6.375	5.188	3	1	0.688	0.688	0.813	4 - 0.625	8	23.3	24.5
SP-23	4	0.5	10	4.5	6.5	6.625	5.688	3.5	1	0.688	0.688	1.375	4 - 0.625	8.25	26.3	27.7
SP-24	4.375	0.563	11.5	5	7	7.125	6.313	3.875	1.125	0.813	0.813	1.375	4 - 0.625	9.25	40.4	38.6
SP-25	4.875	0.625	12.5	5.5	8	8.125	6.938	4.25	1.25	0.938	0.938	1.375	6 - 0.625	10.25	52.6	53.6
SP-26	5.313	0.688	13.5	6.25	8.75	8.875	7.813	5.875	1.625	1.438	1.438	1.375	6 - 0.625	11.25	66.7	66.8
SP-27	6.063	0.75	15.5	7	10	10.125	8.688	5.5	1.5	1.563	1.5	1.375	6 - 0.625	12.75	96.5	100.0
SP-28	6.438	0.75	16.25	7.75	10.75	10.875	9.688	6.5	1.5	1.563	1.5	1.375	6 - 0.75	13.5	125.0	115.0
SP-29	7.125	0.875	17.5	8.5	12	12.125	10.688	7	1.75	1.813	1.5	1.75	6 - 1	14.75	160.0	150.0
SP-30	8.125	1	20.25	9.75	13.75	13.875	11.688	7.5	2	2.063	1.5	1.75	6 - 1	17	215.0	207.0
SP-31	8.875	1.125	22.5	10.75	15	15.125	12.938	8.25	2.250	2.313	1.5	1.75	6 - 1	18.75	318.0	265.0



Bolt-On Shear Pin Accu-Torch® Sprockets



Shear Pin Sprocket Selection

- The shear pin assembly required is determined by the shaft size. Select the smallest shear pin assembly which will accommodate the required bore. Table on page 130 contains the bore ranges and minimum sprocket sizes which allow chain clearance over the shear pin assembly flange.
- Using one of the following formulas, compute the torque load the pin must transmit and enter the torque rating table below to obtain the proper shear pin neck diameter.

$$T = \frac{HP \times 63,025 \times 1.5}{RPM} \quad \text{or} \quad T = \frac{D \times CP \times 1.5}{2}$$

or $T = \text{Output of reducer} \times \text{speed ratio of chain drive} \times 1.5$

Where:

- T = Torque in pound inches
- HP = Horsepower at sprocket
- RPM = Sprocket speed
- D = Pitch diameter of sprocket
- CP = Chain pull in pounds
- 1.5 = Safety factor for starting load

Example:

- Determine the shear pin assembly and pin neck diameter to transmit 20 horsepower at 67 RPM with a 36 tooth, No. 62 sprocket on a 2.938" shaft.

- (1) Referring to Table I, shear pin assembly SP-25 is required for a 2.938" bore. The 36 tooth sprocket is well above the minimum size.
- (2) Torque and neck diameter:

$$T = \frac{HP \times 63,025 \times 1.5}{RPM}$$

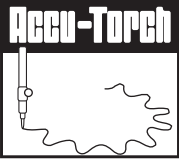
$$T = \frac{20 \times 63,025 \times 1.5}{67} = 28,200 \text{ lb.in.}$$

Referring to Table II under SP-25, a pin necked to 3/8" shows a torque rating of 29,810 lb. in., which exceeds the 28,200 lb. in. required.

- (3) Order: 62SP36, SP-25 assembly with 2.938" bore and .375" pin neck diameter.

Shear Pin Assembly Dimensions (Inches)

Shear Pin Neck Diameter (Inches)	Torque Rating – Pound Inches												
	Shear Pin Hub Number												
	SP19	SP20	SP21	SP22	SP23	SP24	SP25	SP26	SP27	SP28	SP29	SP30	SP31
0.094	1022	1204	1323	1556	1603								
0.125	1752	2064	2268	2616	2748								
0.156	2774	3268	3591	4142	4351	4750							
0.188	3942	4944	5103	5886	6183	6750	7317						
0.219	5402	6364	6993	8066	8473	9250	10027						
0.250	7300	8600	9450	10900	11450	12500	13550	15200	17300	18400			
0.281	9052	10664	11718	13516	14198	15500	16802	18848	21452	22816			
0.313	11096	13072	14364	16568	17403	19000	20596	23140	26296	27968	30932		
0.344		15824	17388	20056	21068	23000	24932	27968	31832	33856	37440		
0.375		18920	20790	23980	25190	27500	29810	33440	38060	40480	44770	51040	
0.406			24570	28340	29170	32500	35230	39520	44980	47840	52910	60320	
0.438			28350	32700	34350	37500	41650	45600	51900	55200	61050	69600	
0.469				37060	38930	42500	46070	51680	58820	62560	69190	78880	
0.500				42728	44884	49000	53116	59584	67816	72128	79772	90944	
0.531						55000	59620	66880	76120	80960	89540	102080	
0.563						62000	67280	75392	85808	91264	100936	115072	
0.594							73220	82080	93420	99360	109890	125280	136890
0.625							82800	92720	105530	112240	124135	141520	154635
0.656								103360	117640	126120	138380	157760	172380
0.688								112480	128020	136160	150590	171680	187590
0.719									138400	147200	162800	185600	202800
0.750									152240	161920	179080	204160	223080
0.781											195360	222720	243360
0.813											211640	241280	263640
0.844											227920	259840	283920
0.875											244200	278400	304200
0.906												296960	324480
0.938												301600	329550
0.969												338720	370110
1.000												371200	405600
1.063													446160
1.125													507000



Flame Cut Sprockets for Engineering Chains

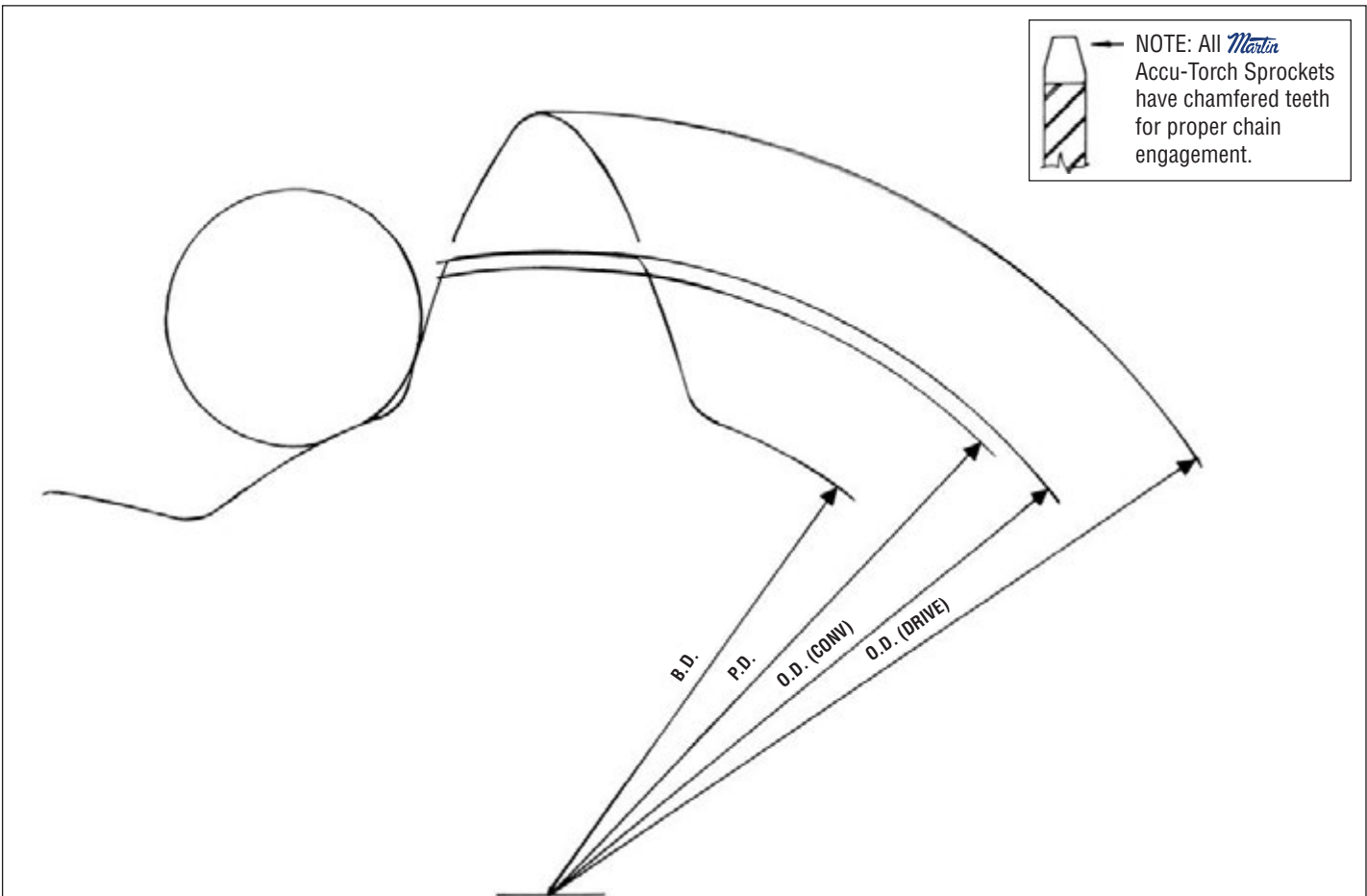
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Conveyor Style Tooth for Chains:
78 — 82 — 124 — 132



Driver Style Tooth for Chains:
62 — 1568 — 1030 — 238 — 1240 — 635 — 1207

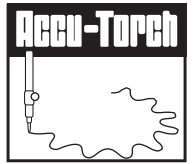


Accu-Torch Sprockets are not intended to replace cut tooth roller chain sprockets.

NOTE: For style other than Type "C" or Type "A", or Tooth Size not shown, consult factory for price. See Current List Price Sheet for Stock Pricing.



Flame Cut Sprockets for Engineering Chains



62

FLAME CUT SPROCKETS FOR CHAINS: 062, 072, 162, 162 R, 2, 378 R, 402 RX, 62 CAST, 62 H, 62 Steel, 62A, 72 1/2, 962, H 62, HF 62 A, IS 620, LXS 627, R 362, R432, RR 362, RR 432, US 620, US 622

Type C — 1.654" Pitch

PLATE THICKNESS 0.75"
ROLLER DIAMETER 0.8125"

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Stock Bore	Max. Bore	Hub Diameter	L.T.B.	Approximate Weight	Catalog Number	Stock Bore	Approximate Weight
12	62C12	6.39	.938	2.75	4.25	3.125	15.8	62A12	.938	6.8
13	62C13	6.91	.938	3.25	4.75	3	19.4	62A13	.938	8.0
14	62C14	7.43	.938	3.25	4.75	3	20.6	62A14	.938	9.2
15	62C15	7.96	.938	3.25	4.75	3	22.0	62A15	.938	10.5
17	62C17	9	.938	3.25	4.75	3	24.0	62A17	.938	12.0
19	62C19	10.05	.938	3.25	4.75	3	28.0	62A19	.938	16.8
20	62C20	10.57	.938	3.25	4.75	3	30.0	62A20	.938	18.6
24	62C24	12.67	1.25	3.75	5.5	4.375	49.0	62A24	1.25	26.0
26	62C26	13.72	1.25	3.75	5.5	4.375	53.0	62A26	1.25	30.0
30	62C30	15.82	1.25	3.75	5.5	4.375	65.0	62A30	1.25	42.0
36	62C36	18.98	1.25	3.75	5.5	4.375	82.0	62A36	1.25	59.0
54	62C54	28.45	1.25	3.75	5.5	4.375	125.0	62A54	1.25	135.0
60	62C60	31.6	1.25	3.75	5.5	4.375	138.0	62A60	1.25	169.0

78

FLAME CUT SPROCKETS FOR CHAINS: 433 1/2, 488, 578 R, 588 R, 7188, 75, 78, 81X, 87R, 88, 988, C 188, H 74, H 75, H 78, H 78 LR, (14, 18 TEETH ONLY), H 78 RT, H 78 SR, H 79, IS 880, IS 881, IS 882, LXS 881, LXS 882, LXS 886, LXS 887, R 588, R 778, RR 588, RR 778, S 188, S 78, SS 188, US 278 R, US 881, US 882, XS 578

Type C — 2.609" Pitch

PLATE THICKNESS 0.875"
ROLLER DIAMETER 0.875"

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Stock Bore	Max. Bore	Hub Diameter	L.T.B.	Approximate Weight	Catalog Number	Stock Bore	Approximate Weight
8	78C8	6.82	.938	3.25	4.75	3.125	21	78A8	.938	9.0
9	78C9	7.63	1.25	3.438	5.25	3.875	29	78A9	1.25	11.3
10	78C10	8.44	1.25	3.438	5.25	3.875	31	78A10	1.25	13.9
11	78C11	9.26	1.25	3.438	5.25	3.875	34	78A11	1.25	16.7
12	78C12	10.08	1.25	3.438	5.25	3.875	37	78A12	1.25	19.8
13	78C13	10.90	1.25	3.75	5.5	4.5	46	78A13	1.25	23.0
14	78C14	11.72	1.25	3.75	5.5	4.5	49	78A14	1.25	27.0
15	78C15	12.55	1.5	3.75	5.5	4.5	53	78A15	1.5	30.0
17	78C17	14.20	1.5	3.75	5.5	4.5	62	78A17	1.5	39.0
19	78C19	15.85	1.5	4.5	6.5	5.375	90	78A19	1.5	50.0
21	78C21	17.51	1.5	4.5	6.5	5.375	101	78A21	1.5	61.0
24	78C24	19.99	1.5	4.5	6.5	5.375	119	78A24	1.5	79.0
25	78C25	20.82	1.5	4.5	6.5	5.375	124	78A25	1.5	84.0
28	78C28	23.31	1.5	4.5	6.5	5.375	132	78A28	1.5	105.0
30	78C30	24.96	1.5	4.5	6.5	5.375	150	78A30	1.5	123.0
35	78C35	29.11	1.5	4.5	6.5	5.375	170	78A35	1.5	166.0
40	78C40	33.25	1.5	4.938	7.25	6.75	226	78A40	1.5	216.0
42	78C42	34.91	1.5	4.938	7.25	6.75	240	78A42	1.5	240.0
46	78C46	38.31	1.5	4.938	7.25	6.75	258	78A46	1.5	286.0
54	78C54	44.87	1.5	4.938	7.25	6.75	368	78A54	1.5	302.0
60	78C60	49.85	1.5	4.938	7.25	6.75	388	78A60	1.5	322.0

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BORED-TO-SIZE FLAME CUT SPROCKETS

Type C — 2.609" Pitch

PLATE THICKNESS 0.75"
ROLLER DIAMETER 0.8125"

Part Number	Pitch Diameter	Approximate Weight (lb)	Stock Finished Bores - Includes Keyway and 2 Setscrews						
78CS8	6.82"	21	1.438	1.938	2	2.188	2.438	2.938	—
78CS9	7.63"	29	1.438	1.938	2	2.188	2.438	2.938	—
78CS10	8.44"	31	1.438	1.938	2	2.188	2.438	2.938	3.438*
78CS11	9.26"	34	—	1.938	2	2.188	2.438	2.938	3.438*
78CS12	10.08"	37	—	1.938	2	2.188	2.438	2.938	3.438*
78CS13	10.90"	46	—	1.938	—	2.188	2.438	2.938	3.438*
78CS14	11.72"	49	—	1.938	—	2.188	2.438	2.938	3.438*

Please contact [Martin](http://www.martin.com) if Hub OD and Length Thru Bore dimensions are critical. These parts have setscrews at 90 degrees and 180 degrees instead of over keyway and 90 degrees.



Flame Cut Sprockets for Engineering Chains



1568

FLAME CUT SPROCKETS FOR CHAINS: 1803 A, 1803 AB, AX 1568, IS 3010, IS 3011, JS 3011, LXS 3011, LXS 3011 M, MXS 3011, SS 568, US 3011, X568, XX 568

Type C — 3.067" Pitch

**PLATE THICKNESS 1.25"
ROLLER DIAMETER 1.625"**

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Stock Bore	Max. Bore	Hub Diameter	L.T.B.	Approximate Weight	Catalog Number	Stock Bore	Approximate Weight
10	1568C10	9.92	1.5	3.75	5.5	4.25	46	1568A10	1.5	28
12	1568C12	11.85	1.5	3.75	5.5	4.25	58	1568A12	1.5	40
14	1568C14	13.78	1.5	3.75	5.5	4.25	73	1568A14	1.5	53
30	1568C30	29.34	1.5	4.5	6.5	5.75	217	1568A30	1.5	240
36	1568C36	35.19	1.5	5.375	7.5	5.875	257	1568A36	1.5	290
42	1568C42	41.04	1.5	5.5	8	6.125	407	1568A42	1.5	340
48	1568C48	46.89	1.5	5.5	8	6.125	448	1568A48	1.5	381

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

1030

FLAME CUT SPROCKETS FOR CHAINS: 1030 , 1037, 1190, 1190 R, 1539, API 3, CHAMPION NO. 3, IS 1030, IS 1031, IS 1032, IS 1037, LXS 1031, LXS 1032, R 1033, R 1035, SS 40, SS 40 Hyp, SXX, US 1031, US 1032

Type C — 3.075" Pitch

**PLATE THICKNESS 1.25"
ROLLER DIAMETER 1.25"**

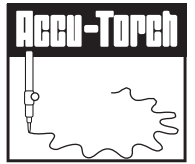
Type A

Number of Teeth	Catalog Number	Pitch Diameter	Stock Bore	Max. Bore	Hub Diameter	L.T.B.	Approximate Weight	Catalog Number	Stock Bore	Approximate Weight
8	1030C8	8.05	1.25	3.25	5	3.875	31	1030A8	1.25	17.9
9	1030C9	8.99	1.25	3.25	5	3.875	36	1030A9	1.25	22.4
10	1030C10	9.95	1.25	3.25	5	3.875	40	1030A10	1.25	28.0
11	1030C11	10.91	1.5	3.75	5.5	4.25	51	1030A11	1.5	33.0
12	1030C12	11.88	1.5	3.75	5.5	4.25	57	1030A12	1.5	39.0
13	1030C13	12.85	1.5	3.75	5.5	4.25	64	1030A13	1.5	46.0
15	1030C15	14.79	1.5	4	6	5.125	91	1030A15	1.5	60.0
17	1030C17	16.73	1.5	4	6	5.125	109	1030A17	1.5	78.0
19	1030C19	18.68	1.5	4.5	6.5	5.75	137	1030A19	1.5	97.0
21	1030C21	20.63	1.5	4.5	6.5	5.75	158	1030A21	1.5	118.0
24	1030C24	23.56	1.5	4.5	6.5	5.75	176	1030A24	1.5	154.0
25	1030C25	24.53	1.5	5.375	7.5	5.875	206	1030A25	1.5	167.0
28	1030C28	27.46	1.5	5.375	7.5	5.875	236	1030A28	1.5	210.0
30	1030C30	29.42	1.5	5.375	7.5	5.875	254	1030A30	1.5	240.0
35	1030C35	34.30	1.5	5.5	8	6.125	313	1030A35	1.5	327.0
40	1030C40	39.19	1.5	5.5	8	6.125	360	1030A40	1.5	427.0
42	1030C42	41.15	1.5	5.5	8	6.125	410	1030A42	1.5	343.0
48	1030C48	47.03	1.5	6.5	9.5	6.75	501	1030A48	1.5	384.0
54	1030C54	52.89	1.5	6.5	9.5	6.75	549	1030A54	1.5	432.0
60	1030C60	58.75	1.5	7	10	7.5	642	1030A60	1.5	506.0

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.



Flame Cut Sprockets for Engineering Chains



82

FLAME CUT SPROCKETS FOR CHAINS: 103, 131, 382, 4103, 527 R, 527 RX, 6131, C131, C9103, ER131, H 82, S 131, SBO2103, SBS131, SCA9103, SS 131, WH82, WH9103HD, WS 82, WS 82 H

Type C — 3.075" Pitch

**PLATE THICKNESS 1.125"
ROLLER DIAMETER 1.219"**

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Stock Bore	Max. Bore	Hub Diameter	L.T.B.	Approximate Weight	Catalog Number	Stock Bore	Approximate Weight
7	82C7	7.09	.813	2.938	4.5	3.875	24	82A7	.813	12.6
8	82C8	8.04	1.25	3.75	5.25	4.125	34	82A8	1.25	16
9	82C9	8.99	1.25	3.75	5.25	4.125	38	82A9	1.25	20
10	82C10	9.95	1.25	3.75	5.25	4.125	43	82A10	1.25	25
11	82C11	10.91	1.25	3.938	5.75	4.375	54	82A11	1.25	30
12	82C12	11.88	1.25	3.938	5.75	4.375	60	82A12	1.25	36
13	82C13	12.85	1.25	3.938	5.75	4.375	66	82A13	1.25	42
14	82C14	13.82	1.25	3.938	5.75	4.375	72	82A14	1.25	48
15	82C15	14.79	1.5	4.5	6.5	5.625	94	82A15	1.5	54
16	82C16	15.76	1.5	4.5	6.5	5.625	102	82A16	1.5	62
17	82C17	16.73	1.5	4.5	6.5	5.625	110	82A17	1.5	70
18	82C18	17.71	1.5	4.5	6.5	5.625	119	82A18	1.5	79

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

82

BORED-TO-SIZE FLAME CUT SPROCKETS

Type C — 3.075" Pitch

**PLATE THICKNESS 1.125"
ROLLER DIAMETER 1.219"**

Number of Teeth	Catalog Number	Pitch Diameter	Approximate Weight (lb)	Stock Finished Bores - Includes Keyway and 2 Setscrews	
10	82CS10	9.95"	43	2.438	2.938
11	82CS11	10.91"	54	2.438	2.938
12	82CS12	11.88"	60	2.438	2.938

Please contact *Martin* if Hub OD and Length Thru Bore dimensions are critical

238

FLAME CUT SPROCKETS FOR CHAINS: 1616 A, IS 3514 J, LXS 3514, LXS 3514 M, MXS 3514, RX 238, US 3514

Type C — 3.500" Pitch

**PLATE THICKNESS 1.25"
ROLLER DIAMETER 1.75"**

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Stock Bore	Max. Bore	Hub Diameter	L.T.B.	Approximate Weight	Catalog Number	Stock Bore	Approximate Weight
10	238C10	11.33	1.5	3.75	5.5	4.25	54	238A10	1.5	35
12	238C12	13.52	1.5	3.75	5.5	4.25	70	238A12	1.5	51
14	238C14	15.73	1.5	3.75	5.5	4.25	88	238A14	1.5	60
30	238C30	33.48	1.5	4	6	5.125	312	238A30	1.5	253
36	238C36	40.16	1.5	4	6	5.125	445	238A36	1.5	370
42	238C42	46.84	1.5	5.5	8	6.125	446	238A42	1.5	379
48	238C48	53.52	1.5	5.5	8	6.125	517	238A48	1.5	450

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.



Flame Cut Sprockets for Engineering Chains



124 FLAME CUT SPROCKETS FOR CHAINS: H 124, W 124, WH 124, WR 124, WS 124

Type C — 4.000" Pitch

PLATE THICKNESS 1.5"
ROLLER DIAMETER 1.5"

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Stock Bore	Max. Bore	Hub Diameter	L.T.B.	Approximate Weight	Catalog Number	Stock Bore	Approximate Weight
6	124C6	8.00	0.938	3.25	4.75	4.625	36	124A6	0.938	21
7	124C7	9.22	1	3.938	5.75	4.75	52	124A7	1	28
8	124C8	10.45	1	3.938	5.75	4.75	61	124A8	1	37
9	124C9	11.70	1	3.938	5.75	4.75	70	124A9	1	46
10	124C10	12.94	1	3.938	5.75	4.75	79	124A10	1	55
11	124C11	14.20	1.5	4.25	6.25	4.75	95	124A11	1.5	68
12	124C12	15.45	1.5	4.25	6.25	4.75	107	124A12	1.5	80
13	124C13	16.72	1.5	4.25	6.25	4.75	120	124A13	1.5	93
14	124C14	17.98	1.5	4.25	6.25	4.75	135	124A14	1.5	108
15	124C15	19.24	1.5	4.375	6.75	6	168	124A15	1.5	124
16	124C16	20.50	1.5	4.375	6.75	6	185	124A16	1.5	141

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

124 BORED-TO-SIZE FLAME CUT SPROCKETS

Type C — 4.000" Pitch

PLATE THICKNESS 1.5"
ROLLER DIAMETER 1.5"

Part Number	Pitch Diameter	Approximate Weight (lb)	Stock Finished Bores - Includes Keyway and 2 Setscrews		
124CS9	11.70"	70	2.188	2.438	2.938
124CS10	12.94"	79		2.438	2.938 3.438
124CS11	14.20"	95			2.938 3.438
124CS12	15.45"	107			2.938 3.438

Please contact *Martin* if Hub OD and Length Thru Bore dimensions are critical

1240 FLAME CUT SPROCKETS FOR CHAINS: 1240, 1244, 3 BAR HYPER, API 4, CHAMPION NO. 4, IS 1242, IS 1425, LXS 1242, LXS 1245, R 1248, SS 124, SS 124 D, SS 124 DP

Type C — 4.063" Pitch

PLATE THICKNESS 1.75"
ROLLER DIAMETER 1.75"

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Stock Bore	Max. Bore	Hub Diameter	L.T.B.	Approximate Weight (lb)	Catalog Number	Stock Bore	Approximate Weight (lb)
6	1240C6	8.13	0.938	2.5	4	4	34	1240A6	0.938	26
7	1240C7	9.36	1.25	3.75	5.25	4.75	51	1240A7	1.25	34
8	1240C8	10.62	1.5	4.5	6.5	5	78	1240A8	1.5	44
9	1240C9	11.88	1.5	4.5	6.5	5	89	1240A9	1.5	55
10	1240C10	13.15	1.5	4.5	6.5	5	101	1240A10	1.5	67
11	1240C11	14.42	1.5	4.5	6.5	5	115	1240A11	1.5	81
12	1240C12	15.70	1.5	5.25	7	6	140	1240A12	1.5	96
13	1240C13	16.98	1.5	5.25	7	6	155	1240A13	1.5	111
14	1240C14	18.26	1.5	5.25	7	6	174	1240A14	1.5	130
15	1240C15	19.54	1.5	5.25	7	6	192	1240A15	1.5	148
16	1240C16	20.83	1.5	5.5	8	6.25	230	1240A16	1.5	168
18	1240C18	23.40	1.5	5.5	8	6.25	275	1240A18	1.5	213
20	1240C20	25.97	1.5	5.5	8	6.25	300	1240A20	1.5	263
21	1240C21	27.26	1.5	5.5	8	6.25	319	1240A21	1.5	289
24	1240C24	31.12	1.5	5.5	8	6.25	387	1240A24	1.5	377
25	1240C25	33.42	1.5	6	9	6.25	426	1240A25	1.5	409
28	1240C28	36.29	1.5	6	9	6.25	494	1240A28	1.5	509
30	1240C30	38.87	1.5	7	10	6.75	583	1240A30	1.5	587
35	1240C35	45.33	1.5	7	10	6.75	729	1240A35	1.5	620
40	1240C40	51.78	1.5	7.5	11	7.75	932	1240A40	1.5	721
48	1240C48	62.12	1.5	7.5	11	7.75	1078	1240A48	1.5	867

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.



635 FLAME CUT SPROCKETS FOR CHAINS: 1350, 1340 RX, 450 SX, 450 SXX, B 635, IS 4522, LXS 4522 M, RO 635, X 635

Type C — 4.500" Pitch

PLATE THICKNESS 1.75"
ROLLER DIAMETER 2.25"

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Stock Bore	Max. Bore	Hub Diameter	L.T.B.	Approximate Weight (lb)	Catalog Number	Stock Bore	Approximate Weight (lb)
10	635C10	14.56	1.5	4	6.5	5	111	635A10	1.5	87
12	635C12	17.39	1.5	4	6.5	5	148	635A12	1.5	119
14	635C14	20.22	1.5	4	6.5	5	188	635A14	1.5	159
30	635C30	43.05	1.5	5.375	7.5	5.875	592	635A30	1.5	542
36	635C36	51.63	1.5	5.375	7.5	5.875	764	635A36	1.5	715
42	635C42	60.22	1.5	6.5	9.5	7.25	884	635A42	1.5	776
48	635C48	68.81	1.5	7.5	11	7.75	1174	635A48	1.5	963

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

1207 FLAME CUT SPROCKETS FOR CHAINS: 1510 XX, 1602 A, 1602 AA, A 1302, JS 5031, LXS 5028, LXS 6038 M, MXS 5028, RO 1205, RX 1207, US 5201 A

Type C — 5.000" Pitch

PLATE THICKNESS 2.25"
ROLLER DIAMETER 2.5"

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Stock Bore	Max. Bore	Hub Diameter	L.T.B.	Approximate Weight (lb)	Catalog Number	Stock Bore	Approximate Weight (lb)
10	1207C10	16.18	1.5	4.5	6.5	5.5	160	1207A10	1.5	131
12	1207C12	19.32	1.5	4.5	6.5	5.5	215	1207A12	1.5	187
14	1207C14	22.47	1.5	5.375	7.5	5.875	298	1207A14	1.5	254
30	1207C30	47.84	1.5	6	9	6.75	809	1207A30	1.5	730
36	1207C36	57.37	1.5	7	10	8.5	1161	1207A36	1.5	1025
42	1207C42	66.91	1.5	7	10	8.5	1245	1207A42	1.5	1109
48	1207C48	76.45	1.5	7.5	11	10.25	2005	1207A48	1.5	1794

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

132 FLAME CUT SPROCKETS FOR CHAINS: 6150, 150 X, A 132, A 132 WS, C 132, C 132 M, C 132 W, SX 150, SXA 150, W 157, WH 157, WR 157, WS 132

Type C — 6.050" Pitch

PLATE THICKNESS 2.75"
ROLLER DIAMETER 1.719"

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Stock Bore	Max. Bore	Hub Diameter	L.T.B.	Approximate Weight (lb)	Catalog Number	Stock Bore	Approximate Weight (lb)
6	132C6	12.10	1.5	4.5	6.5	6	119	132A6	1.5	90
7	132C7	13.95	1.5	4.5	6.5	6	149	132A7	1.5	120
8	132C8	15.81	1.5	4.5	6.5	6	182	132A8	1.5	153
9	132C9	17.69	1.5	5.375	7.5	6.375	236	132A9	1.5	192
10	132C10	19.58	1.5	5.375	7.5	6.375	278	132A10	1.5	235
11	132C11	21.47	1.5	5.375	7.5	6.375	326	132A11	1.5	283
12	132C12	23.38	1.5	5.375	7.5	6.375	378	132A12	1.5	334

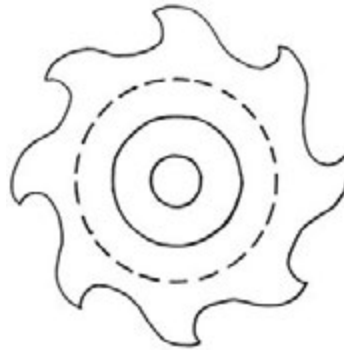
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

Veneer Dryer Parts

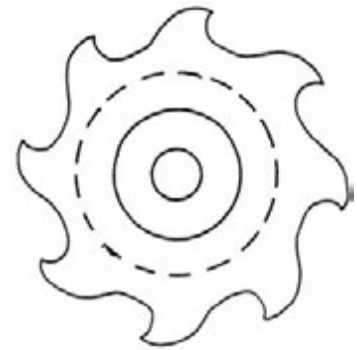
81X 81 X (2.609)

Hooked Tooth Sprocket B Style (Right and Left Hand)

Number of Teeth	Catalog Number	Outside Diameter	Type	Bore		Hub (Inches)	
				Stock	Max.	Diam.	L.T.B.
8	81X-B8RH	6.5	B	1	1.5	2.375	1.625
8	81X-B8LH	6.5	B	1	1.5	2.375	1.625



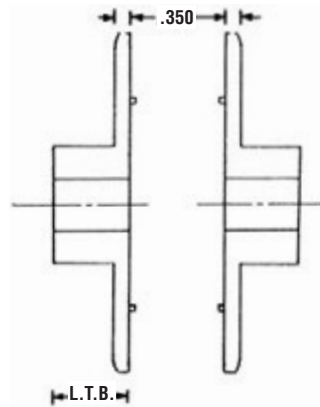
(RH) Right Hand



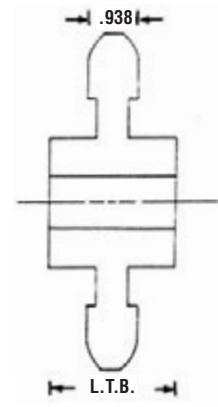
(LH) Left Hand

C Style

Number of Teeth	Catalog Number	Outside Diameter	Type	Bore		Hub (Inches)	
				Stock	Max.	Diam.	L.T.B.
7	81X-C7	5.75	C	.75	1.5	2.375	2.375
8	81X-C8	6.75	C	.75	1.5	2.375	2.375
9	81X-C9	7.438	C	.75	1.5	2.375	2.375



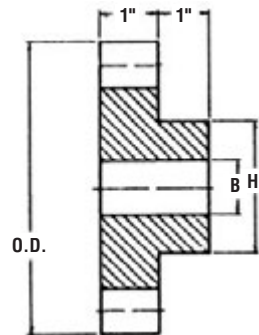
Type B
(Cast Iron)



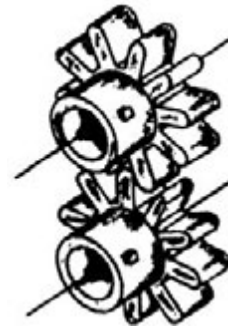
Type C
(Cast Iron)

Star Gear

Number of Teeth	Catalog Number	Outside Diameter	Type	Bore		Hub (Inches)	
				Stock	Max.	Diam.	L.T.B.
10	SG510	4.484	B	1	1.5	2.375	2



Type B
(Cast Iron)



MTO Engineered Class Cast Iron Sprockets



Cast Split Sprockets

Hunting Tooth Sprockets

Rivetless Chain Sprocket

Drag Chain Sprockets

- Plain
- Flanged

Traction Wheels

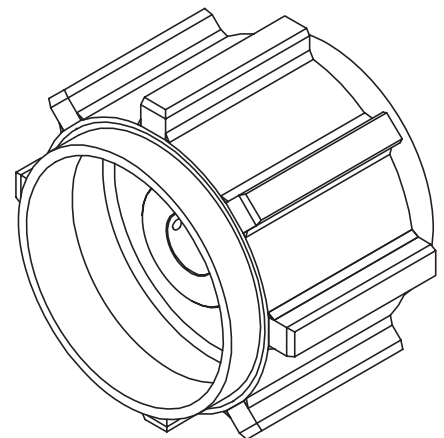
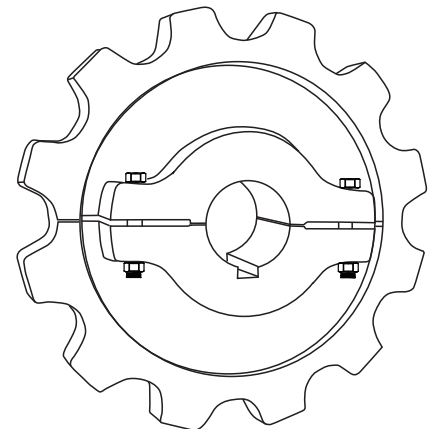
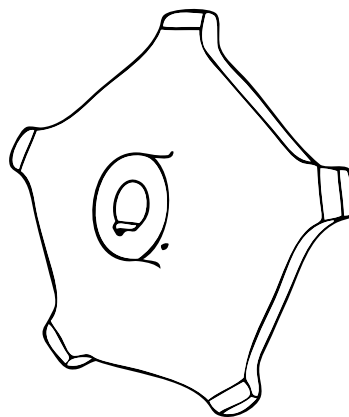
- Plain
- Flanged

Plate Body Sprockets

Chain Saver Rim Sprockets

Adjustable Hub Sprockets

Chilled Rim Sprockets



Sprockets Available to fit Standard Chain Sizes

55	103	H121	197	678	856	998
D60	H104	SD121	348	698	859	1030
62	W-106	WD-122	348	CS720S	F912R	1036
67	S-110	WD-123	458	720S	E922	1113
78	WD-110	WD-124	468	730	F922	1120
W-78	111SP	130	WD-480	A730	925R	1131
94R	111	132	483	CS730	933	F1222
95R	WD-112	183	520	823	951	2124
102B	WD-116	188	531	825	D963R	2180
H102	WD-119	194	625R	830	E963R	4850
102.5	WD-120	196	667	844	F963R	9250

Not all sprockets fit all chain sizes, see factory for availability.

Cast Iron Sprocket Types



Now Stocking Select Sizes



C	830	C	9	CR S
<u>Cast Iron</u>	<u>Chain</u>	<u>Sprocket Type</u>	<u>No. of Teeth</u>	<u>Special Instructions</u>
CWD if Wide Drag	Example: 132 - 82 102B - 55 78 - 131	A - Plate Only B - Hub One Side C - Hub Both Sides D - Detachable Hubs		CR - Chilled Rim S - Split CS - Chain Saver F - Flanged

SPROCKET STYLES

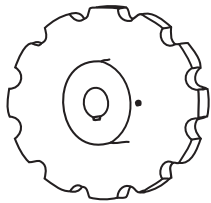


Plate Body

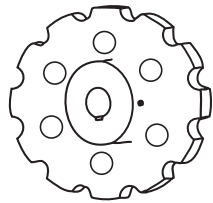
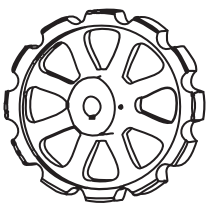
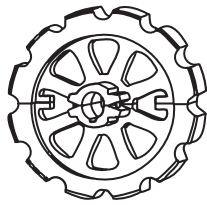


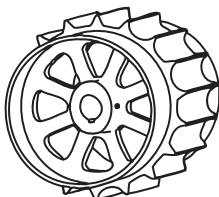
Plate Body with Lightening Holes



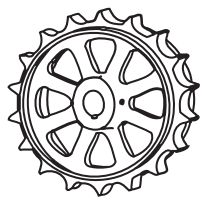
Arm Body



Split Arm Body



Drum Chainsaver Rim Arm Body



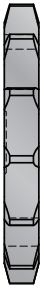
Chainsaver Rim

Cast Arm Body is often used in larger diameter sprockets. The arms are advantageous because they reduce the weight as well as the cost.

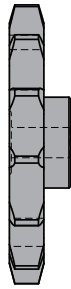
Cast Split (Arm or Plate) Body- The split style sprocket eases maintenance and installation. The sprocket can be removed without having to disassemble an entire system.

Cast Plate Body style is primarily used in smaller diameter sprockets when the arm body style is unnecessary. Larger diameter sprockets only use this plate body style when the torque is beyond the limits of the arm body style.

Special Sprockets – *Martin* also offers special made-to-order sprockets such as the flanged-rim sprocket (image to the left).



Type A



Type B

Hub Types

Cast Iron Sprockets are offered in different hub types including Type A, B, and C.

Type A

An A Style Sprocket is a flat sprocket with no hub extension on either side.

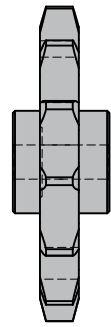
Type B

A B Style Sprocket is a sprocket with a hub extension on one side.

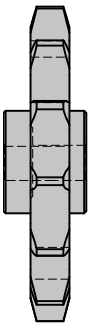
Type C

A C Style Sprocket is a sprocket with a hub extension on both sides.

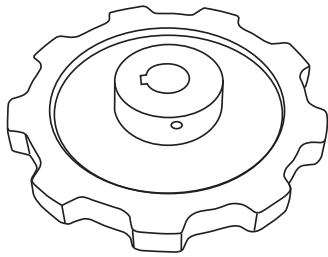
Type C Offset hubs are the same as a "Type C", however the hubs are slightly off center.



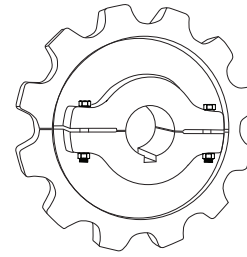
Type C



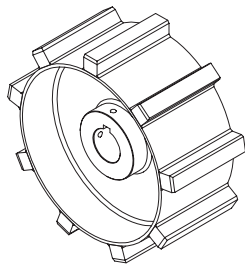
Type C Offset



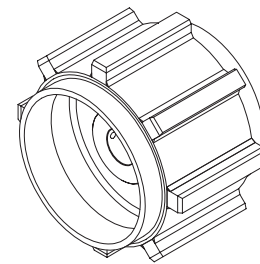
Non-Split Engineering Class Sprockets These sprockets can be supplied in various cast materials, with or without hardened teeth.



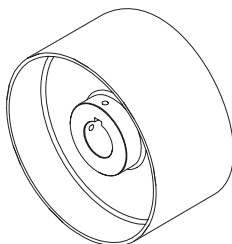
Split Sprockets are made in one piece, machined, then split into two halves after machining. The two halves can then be bolted onto the shaft without removing the shaft or the bearings from the installation. Also available in Chilled Rim.



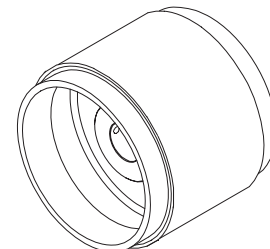
Drag Chain Sprockets are of drum type design with full width teeth. These sprockets are available plain, as shown here, or drum flanged as shown below. All types have been redesigned to provide additional wear life on the welded steel drag chains that have largely replaced malleable types.



Drum Flanged Drag Chain Sprockets have side extension flanges extending from below the root line. These flanges are used with refuse over the end of conveyors and to serve as a guard if chains jump sprockets or traction wheels.

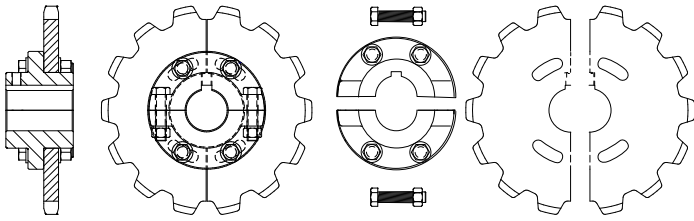


Drag Chain Traction Wheels are identical to sprockets but have no teeth. They are commonly used to turn chains at the ends of conveyors or to increase chain wrap in "S" Wrap" drive designs. They are available plain (left) or drum flanged.

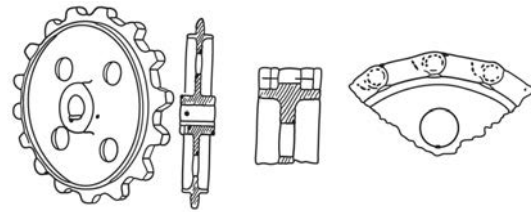


Drum Flanged Traction Wheels are used with drag chains either at the discharge end of the conveyor to guide the refuse over the end, or as a chain guard. Flanges on drag chain sprockets and traction wheels are available in many different lengths.

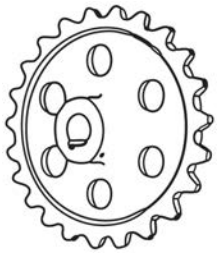
Cast Iron Sprocket Types



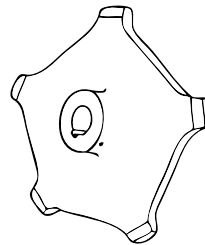
Adjustable Hub Sprockets are designed for use in multi-strand conveyors using top carriers or flights, where alignment of adjacent strands is a problem. The hub allows the chain to be moved forward or backward several inches as conditions in the conveyor require. The adjustable sprockets are available in solid or split construction.



Chainsaver Rims are short flanges below the root line of the sprocket which make contact with the sidebars of the chain. The rims help support the chain and keep the chain running on the true pitch line of the sprocket. Chainsaver Rims are particularly advantageous when used on elevator headshaft sprockets handling heavy or abrasive loads, and in sewage treatment applications where long, unsupported strands are common.



Hunting Tooth Sprockets are designed with an odd number of teeth, with the pitch of the teeth $1/2$ the pitch of the chain. This allows each tooth to contact the chain only every other revolution. Wear life of the sprocket is effectively doubled. A Chainsaver Rim is frequently added to these sprocket to give even longer life.



Drop Forged or Rivetless Chain Sprockets are of skip tooth design, since the block link of these chains is solid. Sprockets are available for all popular drop forged chains in both regular and X series.

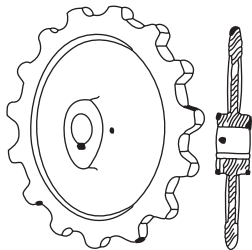


Plate Body with Cam-Shaped Hubs
All sprockets are produced with plate type bodies as shown. Few spoked sprockets are offered due to strength limitations of this type design. As space permits, many smaller sprockets are made with cam-shaped hubs, which give additional strength over the keyway, but reduces weight compared to conventional round hubs of the same diameter.

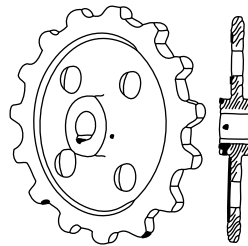
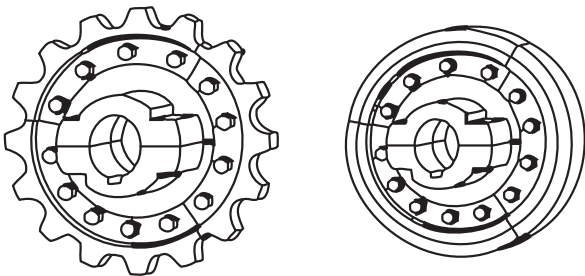
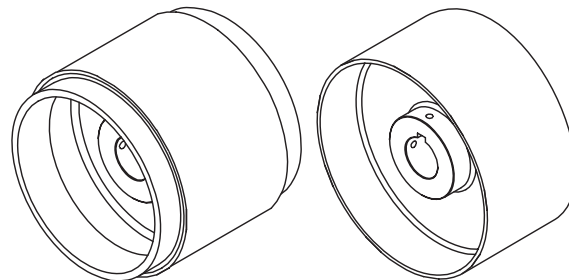


Plate body with Lightening Holes
Where space permits, larger sprockets are made with lightening holes cast through the body to reduce weight and facilitate handling. Standard round hubs are used on most larger sprockets, with diameters of hubs as appropriate according to chain type and ANSI hub specifications.



Segmental Sprockets - *Martin* offers segmental sprockets with either solid or split hub bodies. Segmental sprockets greatly reduce the labor costs as well as the downtime associated with replacing worn standard type sprockets. Worn segments can be replaced by simply removing and replacing segments only, eliminating the need to remove the shaft, and or bearing assemblies, as well as the need to realign the hub.

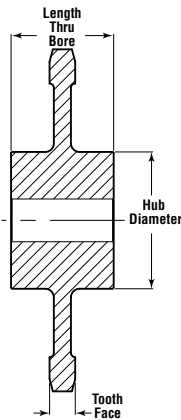


Traction Wheels - Traction Wheels are offered in solid or segmental construction. They are often used in bucket elevators and can withstand abrasive materials.

The following information should be given when ordering sprockets or traction wheels:

1. **QUANTITY** _____
(Number of sprockets required)
2. **CHAIN** _____
(Number and type to be used)
3. **NO. OF TEETH** _____
(The effective number of teeth should be specified when ordering a double duty, hunting tooth or skip tooth sprocket)
4. **PITCH DIAMETER** _____
(For traction wheels, the outside diameter should be specified in place of the pitch diameter)
5. **MATERIAL** _____
(Specify Chilled Rim if hardened teeth required)
6. **CONSTRUCTION** _____
(Standard, split or segmental construction should be specified)
7. **TYPE** _____
(Standard, hunting tooth, double duty, chain saver, etc., must be specified. Chain saver sprockets increase their life by having flanges on each side of the teeth so that the sidebar engages the flange, thereby distributing the wear over a greater area)
8. **BORE** _____
(Sprockets and traction wheels are usually furnished with specific bores)
9. **HUB STYLE** _____
(All hubs are furnished (C style) unless specified otherwise)
10. **KEYWAY AND SETSCREWS** _____
(Standard straight keyways are finished with one setscrew over the keyway and one at 90°)

Cast Iron Sprocket



55 CAST TOOTH SPROCKETS — PITCH 1.631

FOR CHAINS NO.: 55, SS55, C55L, C55D, C55B, C55A, C55

Tooth Face at Pitch Line: 0.688 — Roller Diameter: 0.718

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
5	C55C5	2.77	C	2.00	2.00	0.94	2.0
6	C55C6	3.26	C	2.00	2.00	0.94	2.0
7	C55B7	3.76	B	2.50	2.00	1.63	3.0
8	C55B8	4.26	B	2.50	2.00	1.63	4.0
9	C55C9	4.76	C	3.00	2.00	1.94	5.0
10	C55C10	5.26	C	3.50	2.00	2.19	5.0
11	C55C11	5.77	C	4.50	3.00	2.88	6.0
12	C55C12	6.30	C	4.50	3.00	2.88	10.0
13	C55C13	6.80	C	4.50	3.00	2.88	10.0
14	C55C14	7.31	C	4.50	3.00	2.88	12.0
15	C55C15	7.83	C	4.50	3.00	2.88	13.0
16	C55C16	8.34	C	4.50	3.00	2.88	13.0
17	C55C17	8.85	C	4.50	3.00	2.88	17.0
18	C55C18	9.39	C	4.50	3.00	2.88	20.0
19	C55C19	9.92	C	4.50	3.00	2.88	20.0
20	C55C20	10.43	C	6.00	3.50	2.88	20.0
21	C55C21	10.94	C	6.00	3.50	4.00	23.0
22	C55C22	11.43	C	6.00	3.50	4.00	24.0
23	C55C23	11.97	C	6.00	3.50	4.00	29.0
24	C55C24	12.47	C	6.00	3.50	4.00	32.0
25	C55C26	13.00	C	8.00	4.00	6.00	31.0
27	C55C27	14.07	C	8.00	4.00	6.00	38.0
28	C55C28	14.54	C	8.00	4.00	6.00	42.0
29	C55C29	15.08	C	8.00	4.00	6.00	26.0
30	C55C30	15.59	C	8.00	4.00	6.00	54.0
31	C55C31	16.11	C	8.00	4.00	6.00	58.0
32	C55C32	16.63	C	8.00	4.00	6.00	63.0
34	C55C34	17.67	C	8.00	4.00	6.00	31.0
35	C55C35	18.20	C	8.00	4.00	6.00	69.0
36	C55C36	18.70	C	8.00	4.00	6.00	77.0
38	C55C38	19.75	C	8.00	4.00	6.00	35.0
40	C55C40	20.79	C	10.00	4.00	8.00	37.0
41	C55C41	21.31	C	10.00	4.00	8.00	36.0
48	C55C48	24.94	C	10.00	4.00	8.00	45.0
50	C55C50	25.98	C	10.00	4.00	8.00	47.0
54	C55C54	28.00	C	10.00	4.00	8.00	50.0

62 CAST TOOTH SPROCKETS — PITCH 1.654 CHILLED RIM

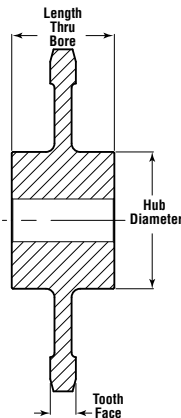
FOR CHAINS NO.: 62, 72, 362, H62

Tooth Face at Pitch Line: 0.812 — Roller Diameter: 0.812

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
5	C62C5CR	2.81	C	1.38	1.25	.75	1.5
6	C62C6CR	3.32	C	1.75	1.25	0.94	3.0
7	C62C7CR	3.82	C	2.50	2.00	1.62	2.0
8	C62C8CR	4.32	C	3.00	2.00	1.81	4.0
9	C62C9CR	4.84	C	3.00	2.00	1.81	5.0
10	C62C10CR	5.35	C	4.00	3.00	2.50	9.0
11	C62C11	5.87	C	4.00	3.00	2.50	9.0
12	C62C12	6.39	C	4.75	3.50	2.50	7.0
13	C62C13	6.91	C	4.75	3.50	3.00	14.0
14	C62C14	7.43	C	4.75	3.50	3.00	24.0
15	C62C15	7.96	C	5.00	3.50	3.50	26.0
16	C62C16	8.48	C	5.00	3.50	3.50	25.0
17	C62C17	9.00	C	5.00	3.50	3.50	26.0
18	C62C18	9.53	C	5.00	3.50	3.50	28.0
19	C62C19	10.05	C	5.00	3.50	3.50	22.0
20	C62C20	10.57	C	5.50	4.00	4.00	24.0
21	C62C21	11.10	C	5.50	4.00	4.00	39.0
22	C62C22	11.63	C	5.50	4.00	4.00	27.0
23	C62C23	12.15	C	5.50	4.00	4.00	30.0
24	C62C24	12.67	C	5.50	4.00	4.00	36.0
25	C62C25	13.20	C	5.50	4.50	4.00	36.0
26	C62C26	13.72	C	5.50	4.50	4.00	36.0
27	C62C27	14.25	C	5.50	4.50	4.00	58.0
28	C62C28	14.77	C	5.50	4.50	4.00	60.0
29	C62C29	15.30	C	5.50	4.50	4.00	31.6
30	C62C30	15.82	C	6.00	4.50	4.50	44.0
32	C62C32	16.88	C	6.00	4.50	4.50	48.0
33	C62C33	17.44	C	6.00	4.50	4.50	50.0
34	C62C34	17.93	C	6.00	4.50	4.50	77.0
36	C62C36	18.98	C	6.00	4.50	4.50	90.0
38	C62C38	20.03	C	6.00	5.00	4.50	93.0
39	C62C39	20.55	C	6.00	5.00	4.50	61.0
40	C62C40	21.07	C	6.00	5.00	4.50	40.2
41	C62C41	21.61	C	6.00	5.00	4.50	65.0
42	C62C42	22.13	C	6.00	5.00	4.50	72.0
43	C62C43	22.66	C	8.00	5.50	6.00	74.0
45	C62C45	23.71	C	8.00	5.50	6.00	77.0
46	C62C46	24.24	C	8.00	5.50	6.00	80.0
47	C62C47	24.77	C	8.00	5.50	6.00	48.6
48	C62C48	25.29	C	8.00	5.50	6.00	83.0
49	C62C49	25.82	C	8.00	5.50	6.00	84.0
54	C62C54	28.45	C	8.00	5.50	6.00	93.0
60	C62C60	31.60	C	8.00	5.50	6.00	71.0

NOTE: Weights and Dimensions are approximate. Please consult *Martin* for max hub information. All Cast Sprockets available as Split Sprockets. CHAINSAVER rims available on request.

HEAT TREAT available upon request.



67 CAST TOOTH SPROCKETS — PITCH 2.308 CHILLED RIM

FOR CHAINS NO.: 57, 67, 77, 467, 477, 967, 977, C77, H-60, SM477

Tooth Face at Pitch Line: 0.687 — Roller Diameter: 0.812

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
5	C67C5CR	3.93	C	2.25	1.75	1.19	4.0
6	C67C6CR	4.62	C	3.00	2.00	1.81	6.0
7	C67C7CR	5.32	C	3.50	3.00	2.19	8.0
8	C67C8CR	6.03	C	4.00	3.00	2.50	10.0
9	CRC67C9	6.75	C	4.50	3.00	2.88	12.0
10	C67C10CR	7.46	C	4.50	3.00	2.88	14.0
11	C67C11CR	8.19	C	4.50	3.00	2.88	18.0
12	C67C12CR	8.92	C	4.50	3.00	2.88	20.0
13	C67C13CR	9.64	C	4.50	3.00	2.88	23.0
14	C67C14CR	10.37	C	5.00	3.00	3.50	22.0
15	C67C15CR	11.10	C	5.00	3.5	3.50	28.0
16	C67C16CR	11.83	C	5.00	3.5	3.50	30.0
17	C67C17CR	12.56	C	6.00	3.5	4.50	31.0
18	C67C18CR	13.29	C	6.00	3.5	4.50	35.0
19	C67C19CR	14.02	C	6.00	3.5	4.50	43.0
20	C67C20CR	14.75	C	6.00	4.00	4.50	51.0
21	C67C21CR	15.43	C	6.00	4.00	4.50	55.0
22	C67C22CR	16.16	C	6.00	4.00	4.50	58.0
23	C67C23CR	16.89	C	6.00	4.00	4.50	62.0
24	C67C24CR	17.68	C	6.00	4.00	4.50	67.0
25	C67C25CR	18.35	C	8.00	4.50	6.00	53.0
26	C67C26CR	19.14	C	8.00	4.50	6.00	54.0
27	C67C27CR	19.89	C	8.00	4.50	6.00	59.0
28	C67C28CR	20.61	C	8.00	4.50	6.00	34.0
30	C67C30CR	22.07	C	8.00	4.50	6.00	67.0
32	C67C32CR	23.54	C	8.00	4.50	6.00	23.0
33	C67C33CR	24.27	C	8.00	4.50	6.00	75.0
34	C67C34CR	25.00	C	8.00	4.50	6.00	48.0
35	C67C35CR	25.74	C	8.00	4.50	6.00	80.0
36	C67C36CR	26.47	C	8.00	4.50	6.00	84.0
38	C67C38CR	27.94	C	10.00	6.00	8.00	88.0
40	C67C40CR	29.40	C	10.00	6.00	8.00	94.0
44	C67C44CR	32.34	C	10.00	6.00	8.00	120.0
45	C67C45CR	33.06	C	10.00	6.00	8.00	125.0
48	C67C48CR	35.27	C	10.00	6.00	8.00	115.0
60	C67C60CR	44.08	C	10.00	6.00	8.00	148.0

NOTE: Weights and Dimensions are approximate. Please consult *Martin* for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINS AVER rims available on request.
HEAT TREAT available upon request.

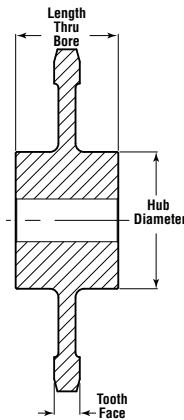
78 CAST TOOTH SPROCKETS — PITCH 2.609

FOR CHAINS NO.: 75, 78, 88, 188, 488, 433-1/2, 81X, BRH, BRH188, C188, H74, H75, H78, H78A, H78B, H78SR, H79, MSR-1288, MW188RT, MXS882, SS188, SS578

Tooth Face at Pitch Line: .937 — Roller Diameter: 0.875

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
5	C78C5	4.44	C	2.50	2.50	1.19	5
6	C78C6	5.22	C	3.50	2.75	1.44	6
7	C78C7	6.01	C	4.00	3.00	2.44	11
8	C78C8	6.82	C	4.75	3.12	2.81	15
9	C78C9	7.63	C	5.25	3.88	3.25	16
10	C78C10	8.44	C	5.25	3.88	3.25	19
11	C78C11	9.26	C	5.25	3.88	3.25	23
12	C78C12	10.08	C	6.00	3.88	3.25	28
13	C78C13	10.90	C	6.00	4.50	3.31	36
14	C78C14	11.72	C	6.00	4.50	3.31	39
15	C78C15	12.55	C	6.00	4.50	3.31	40
16	C78C16	13.37	C	6.00	4.50	3.31	53
17	C78C17	14.20	C	6.00	4.50	3.31	55
18	C78C18	15.02	C	6.00	4.50	4.06	61
19	C78C19	15.85	C	6.50	5.38	4.06	64
20	C78C20	16.68	C	6.50	5.38	4.06	67
21	C78C21	17.50	C	6.50	5.38	4.06	79
22	C78C22	18.33	C	6.50	5.38	4.06	89
23	C78C23	19.16	C	6.50	5.38	4.06	91
24	C78C24	19.99	C	7.00	5.38	4.06	99
25	C78C25	20.81	C	7.00	5.38	4.06	107
26	C78C26	21.64	C	7.00	5.38	4.06	111
27	C78C27	22.47	C	7.00	5.38	4.06	112
28	C78C28	23.30	C	7.00	5.38	4.06	114
29	C78C29	24.05	C	7.00	5.38	4.06	116
30	C78C30	24.96	C	7.00	5.38	4.06	119
31	C78C31	25.79	C	7.00	5.38	4.06	123
32	C78C32	26.62	C	7.00	5.38	4.06	130
33	C78C33	27.38	C	7.00	5.38	4.06	136
34	C78C34	28.28	C	7.00	5.38	4.06	141
35	C78C35	29.11	C	7.00	5.38	4.06	146
36	C78C36	29.93	C	7.00	5.38	4.06	153
38	C78C38	31.60	C	7.00	5.38	4.06	162
39	C78C39	32.42	C	7.00	5.38	4.06	170
40	C78C40	33.25	C	7.25	6.75	4.62	176
41	C78C41	34.08	C	7.25	6.75	4.62	180
42	C78C42	34.91	C	7.25	6.75	4.62	193
43	C78C43	35.65	C	7.25	6.75	4.62	197
44	C78C44	36.57	C	7.25	6.75	4.62	202
45	C78C45	37.31	C	7.25	6.75	4.62	212
46	C78C46	38.23	C	7.25	6.75	4.62	221
48	C78C48	38.89	C	7.25	6.75	4.62	249
54	C78C54	44.87	C	7.25	6.75	4.62	265

Cast Iron Sprocket



95R CAST TOOTH SPROCKETS — PITCH 4.00 CHILLED RIM

FOR CHAINS NO.: 1120, 1520, 4013, 1520C, 95R, LXS4013, MSR 4013, RR1120, RS4013, SS1120

Tooth Face at Pitch Line: .687 — Roller Diameter: 1.500

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
5	C95RC5CR	6.81	C	4.50	3.00	2.50	12.0
6	C95RC6CR	8.00	C	5.00	3.00	3.00	14.0
7	C95RC7CR	9.22	C	6.00	3.00	4.00	18.0
8	C95RC8CR	10.45	C	6.00	3.00	4.00	24.0
9	C95RC9CR	11.70	C	6.00	3.00	4.00	30.0
10	C95RC10CR	12.94	C	6.00	3.00	4.00	40.0
11	C95RC11CR	14.19	C	6.00	3.00	4.00	45.0
12	C95RC12CR	15.45	C	6.00	3.00	4.00	61.0
14	C95RC14CR	17.98	C	6.00	3.00	4.00	76.0
15	C95RC15CR	19.24	C	7.00	4.00	5.00	86.0
18	C95RC18CR	23.04	C	8.00	5.00	6.00	115.0
19	C95RC19CR	24.30	C	8.00	5.00	6.00	125.0
22	C95RC22CR	28.11	C	8.00	5.00	6.00	165.0

94R CAST TOOTH SPROCKETS — PITCH 4.00 CHILLED RIM

FOR CHAINS NO.: 4, 4019, 40SP, 94R, LXS4019, SS4

Tooth Face at Pitch Line: .750 — Roller Diameter: 1.500

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C94RC5CR	8.00	C	5.00	2.75	3.00	22.0
8	C94RC8CR	10.45	C	6.00	3.00	4.00	27.0
9	C94RC9CR	11.70	C	6.00	3.00	4.00	36.0
10	C94RC10CR	12.94	C	6.50	3.00	4.00	39.0
12	C94RC12CR	15.45	C	6.50	3.00	4.00	59.0
14	C94RC14CR	17.98	C	7.00	4.00	5.00	74.0
15	C94RC15CR	19.24	C	7.00	4.00	5.00	84.0
16	C94RC16CR	20.50	C	7.00	4.00	5.00	95.0

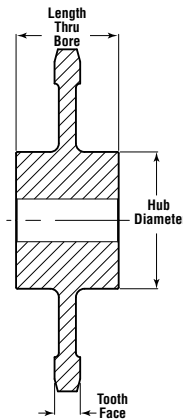
102B CAST TOOTH SPROCKETS — PITCH 4.00 CHILLED RIM

FOR CHAINS NO.: 6102B, A102B, C102B, ER102B, S102B, SBS102B, SS102B

Tooth Face at Pitch Line: 1.875 — Roller Diameter: 1.00

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C102BC6CR	8.00	C	6.00	4.00	3.94	33.0
7	C102BC7CR	9.22	C	6.00	4.00	3.94	44.0
8	C102BC8CR	10.45	C	6.50	4.00	4.44	47.0
9	C102BC9CR	11.70	C	7.00	5.00	4.56	60.0
10	C102BC10CR	12.94	C	7.00	5.00	4.56	68.0
11	C102BC11CR	14.20	C	7.00	5.00	4.56	72.0
12	C102BC12CR	15.45	C	7.00	5.00	4.56	91.0
13	C102BC13CR	16.71	C	7.00	5.00	4.56	107.0
14	C102BC14CR	17.98	C	7.00	5.00	4.56	110.0
15	C102BC15CR	19.24	C	7.00	5.00	4.56	122.0
16	C102BC16CR	20.50	C	7.00	5.00	4.56	135.0
17	C102BC17CR	21.76	C	7.00	5.00	4.56	145.0
18	C102BC18CR	23.04	C	7.00	5.00	4.56	130.0
19	C102BC19CR	24.30	C	7.00	5.00	4.50	170.0
20	C102BC20CR	25.57	C	10.00	6.00	6.00	175.0
21	C102BC21CR	26.84	C	10.00	6.00	6.00	185.0
22	C102BC22CR	28.11	C	10.00	6.00	6.00	194.0
24	C102BC24CR	30.65	C	10.00	6.00	6.00	214.0

NOTE: Weights and Dimensions are approximate. Please consult *Martin* for max hub information. All Cast Sprockets available as Split Sprockets. CHAINSAVER rims available on request. HEAT TREAT available upon request.



H102 CAST TOOTH SPROCKETS — PITCH 5.00

FOR CHAINS NO.: H102, WD102, WDH102

Tooth Face at Pitch Line: .625 — Roller Diameter: 1.500

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	CWD102C6	10.00	C	6.00	7.25	4.00	65.0
7	CWD102C7	11.52	C	6.00	7.25	4.00	80.0
8	CWD102C8	13.07	C	6.50	7.25	4.50	122.0
8	CWD102C8F	13.07	C	6.50	7.25	4.50	160.0
9	CWD102C9	14.62	C	7.00	8.00	5.00	140.0
10	CWD102C10	16.18	C	7.00	8.00	5.00	143.0
11	CDW102C11	17.75	C	7.00	8.00	5.00	165.0
12	CDW102C12	19.32	C	7.50	8.00	5.50	212.0
13	CDW102C13	20.89	C	7.50	8.00	5.50	245.0

102.5 CAST TOOTH SPROCKETS — PITCH 4.040

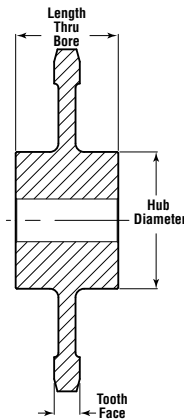
FOR CHAINS NO.: A102-1/2, C102-1/2, C102.5, ER102.5, S102-1/2, SBS102.5, SS102-1/2

Tooth Face at Pitch Line: 1.875 — Roller Diameter: 1.375

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C102.5C6	8.08	C	5.00	3.50	3.94	30.0
8	C102.5C8	10.56	C	6.00	4.00	4.44	55.0
9	C102.5C9	11.81	C	6.00	4.00	5.44	62.0
10	C102.5C10	13.07	C	6.00	4.00	5.94	62.0
11	C102.5C11	14.34	C	6.00	4.00	5.94	76.0
12	C102.5C12	15.61	C	6.00	4.00	5.94	106.0
13	C102.5C13	16.88	C	6.00	4.00	5.94	85.0
14	C102.5C14	18.16	C	6.00	4.00	5.94	94.0
15	C102.5C15	19.43	C	6.00	4.00	5.94	105.0
16	C102.5C16	20.71	C	8.00	5.00	6.00	112.0
17	C102.5C17	21.98	C	8.00	5.00	6.00	122.0
19	C102.5C19	24.55	C	8.00	5.00	6.00	140.0
20	C102.5C20	25.83	C	10.00	6.00	8.00	150.0
22	C102.5C22	28.39	C	10.00	6.00	8.00	175.0
24	C102.5C24	30.95	C	10.00	6.00	8.00	190.0
25	C102.5C25	32.23	C	10.00	6.00	8.00	210.0
26	C102.5C26	33.33	C	10.00	6.00	8.00	230.0

NOTE: Weights and Dimensions are approximate. Please consult *Martin* for max hub information. All Cast Sprockets available as Split Sprockets. CHAINSAVER rims available on request. HEAT TREAT available upon request.

Cast Iron Sprocket



H104 CAST TOOTH SPROCKETS — PITCH 6.000

FOR CHAINS NO.: 6104, H104, WDH104

Tooth Face at Pitch Line: 4.00 — Roller Diameter: 1.50

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
5	CWD104C5	10.21	C	6.00	4.75	4.00	80.0
6	CWD104C6	12.00	C	6.00	4.75	4.00	91.0
7	CWD104C7	13.83	C	6.00	4.75	4.00	120.0
7	CWD104C7*		C	6.00	4.75	4.00	116.0
8	CWD104C8	15.68	C	7.50	5.00	5.00	122.0
8	CWD104C8*		C	7.50	5.00	5.00	137.0
9	CWD104C9	17.54	C	7.50	5.00	5.00	152.0
9	CWD104C9*		C	7.50	5.00	5.00	167.0
10	CWD104C10	19.42	C	8.00	5.50	6.00	160.0
10	CWD104C10*		C	8.00	5.50	6.00	175.0
11	CWD104C11	21.30	C	8.00	5.50	6.00	172.0
12	CWD104C12	23.18	C	8.00	5.50	6.00	185.0
13	CWD104C13	25.07	C	8.00	5.50	6.00	198.0

*Available Flanged - Consult Factory.

S110 CAST TOOTH SPROCKETS — PITCH 6.000

FOR CHAINS NO.: 6110, C110, C110, ER110, C110C, RR542, SBS110, SS110, WH110, WS110

Tooth Face at Pitch Line: 1.875 — Roller Diameter: 1.250

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C110C6	12.00	C	6.00	4.00	3.94	63.0
7	C110C7	13.84	C	7.00	4.00	4.50	68.0
8	C110C8	15.68	C	7.00	5.00	4.50	76.0
9	C110C9	17.54	C	7.00	5.00	4.50	83.0
10	C110C10	19.42	C	7.50	5.00	5.00	88.0
11	C110C11	21.30	C	7.50	5.00	5.00	121.0
12	C110C12	23.18	C	7.50	5.00	5.00	131.0
13	C110C13	25.07	C	7.50	5.00	5.00	152.0
14	C110C14	26.96	C	7.50	5.00	5.00	160.0
15	C110C15	28.86	C	7.50	5.00	5.00	170.0
16	C110C16	30.76	C	8.00	6.00	6.00	181.0
18	C110C18	34.55	C	8.00	6.00	6.00	206.0
19	C110C19	36.46	C	10.00	6.00	6.00	214.0
24	C110C24	45.97	C	10.00	8.00	8.00	340.0

W106 CAST TOOTH SPROCKETS — PITCH 6.000

FOR CHAINS NO.: W106 WH106HD, WH110, WR106, WR106HD

Tooth Face at Pitch Line: 1.50 — Roller Diameter: 1.25

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
5	C106C5CR	10.15	C	6.00	4.75	4.00	30.0
8	C106C8CR	15.68	C	7.00	4.75	5.00	85.0
9	C106C9CR	17.54	C	7.00	4.75	5.00	100.0

WD110 CAST TOOTH SPROCKETS — PITCH 6.000

FOR CHAINS NO.: 6110 (DRAG), H-110, H110, WD110, WD113, WDH2210, WHD110, WS110 (PT-C), WSD110

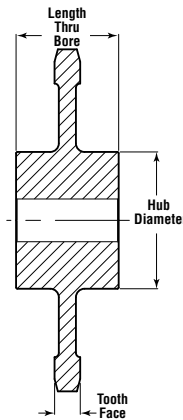
Tooth Face at Pitch Line: 8.875 — Roller Diameter: 1.500

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
5	CWD110C5	10.15	C	6.00	3.00	4.00	120.0
6	CWD110C6*	12.00	C	6.00	3.00	4.00	129.0
7	CWD110C7*	13.84	C	7.00	3.00	5.00	172.0
8	CWD110C8*	15.68	C	8.00	3.50	6.00	202.0
9	CWD110C9*	17.54	C	8.00	3.50	6.00	240.0
10	CWD110C10*	19.42	C	8.00	3.50	6.00	253.0
11	CWD110C11*	21.30	C	8.00	4.00	6.00	265.0
12	CWD110C12*	23.18	C	8.00	4.00	6.00	352.0
15	CWD110C15	28.86	C	8.00	4.00	6.00	610.0

*Available Flanged - Consult Factory.

NOTE: Weights and Dimensions are approximate. Please consult *Martin* for max hub information. All Cast Sprockets available as Split Sprockets. CHAINSAVER rims available on request.

HEAT TREAT available upon request.



111SP CAST TOOTH SPROCKETS — DOUBLE PITCH 4.760 AND 7.240 — CHILLED RIM

FOR CHAINS NO.: 6111 Spec., C111 Spec., ER111SP, SS111 Spec.

Tooth Face at Pitch Line: 2.375 — Roller Diameter: 1.438

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
8	CDP111C8CR	15.74	C	7.50	6.00	5.00	90.0
10	CDP111C10CR	19.40	C	7.50	6.00	5.00	107.0
12	CDP111C12CR	23.22	C	8.00	6.00	6.00	190.0

WD112 CAST TOOTH SPROCKETS — PITCH 8.00

FOR CHAINS NO.: H112, SDH112, WD112, WSD112

Tooth Face at Pitch Line: 9.000 — Roller Diameter: 1.500

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
7	CWD112C7	18.44	C	8.00	6.00	6.938	260.0
8	CWD112C8	20.90	C	8.00	6.00	6.938	281.0
9	CWD112C9	23.39	C	8.00	6.00	6.938	308.0
10	CWD112C10	25.89	C	8.00	6.00	6.938	346.0

111 CAST TOOTH SPROCKETS — PITCH 4.760 CHILLED RIM

FOR CHAINS NO.: 6111 Spec., C111 Spec., ER111SP, SS111 Spec.

Tooth Face at Pitch Line: 2.375 — Roller Diameter: 1.438

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C111C6CR	9.52	C	7.00	4.00	4.00	64.0
7	C111C7CR	10.99	C	7.00	4.00	5.00	81.0
8	C111C8CR	12.44	C	7.50	6.00	5.06	98.0
9	C111C9CR	13.92	C	7.00	6.00	5.06	107.0
10	C111C10CR	15.40	C	7.50	6.00	5.06	122.0
11	C111C11CR	16.90	C	7.50	6.00	5.06	136.0
12	C111C12CR	18.39	C	7.50	6.00	5.06	145.0
13	C111C13CR	19.89	C	7.50	6.00	5.06	120.0
14	C111C14CR	21.39	C	8.00	6.00	6.00	125.0
15	C111C15CR	24.35	C	8.00	6.00	6.00	180.0
16	C111C16CR	24.35	C	8.00	6.00	6.00	189.0
17	C111C17CR	25.90	C	8.00	6.00	6.00	218.0
18	C111C18CR	27.41	C	8.00	6.00	6.00	228.0
20	C111C20CR	30.34	C	8.00	6.00	6.00	248.0
22	C111C22CR	33.44	C	10.00	6.00	8.00	261.0
24	C111C24CR	36.47	C	10.00	6.00	8.00	274.0

WD116 CAST TOOTH SPROCKETS — PITCH 8.00 ALLOY IRON

FOR CHAINS NO.: 8116, HC8116, WD116, WDH116, WDH2316, WS116, WSD116

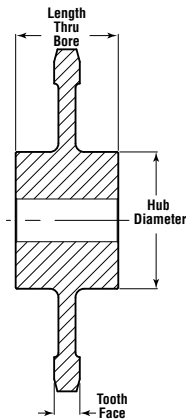
Tooth Face at Pitch Line: 9.000 — Roller Diameter: 1.500

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	CWD116C6*	16.00	C	7.00	6.00	5.00	210.0
7	CWD116C7*	18.44	C	7.00	6.00	5.00	303.0
8	CWD116C8*	20.90	C	8.00	6.00	6.00	346.0
9	CWD116C9*	23.39	C	8.00	6.00	6.00	442.0
10	CDWD116C10	25.92	C	8.00	6.00	6.00	450.0

*Available Flanged - Consult Factory.

NOTE: Weights and Dimensions are approximate. Please consult *Martin* for max hub information. All Cast Sprockets available as Split Sprockets. CHAINSAVER rims available on request. HEAT TREAT available upon request.

Cast Iron Sprocket



WD119 CAST TOOTH SPROCKETS — PITCH 6.000

FOR CHAINS NO.: CC119, HC119, SD-19, SD19A

Tooth Face at Pitch Line: 3.625 — Roller Diameter: 2.000

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	CWD119C6	12.00	C	6.00	5.00	4.00	95.0

WD122 CAST TOOTH SPROCKETS — PITCH 8.00 CHILLED RIM

FOR CHAINS NO.: H-122, WD122, WDH122

Tooth Face at Pitch Line: 8.750 — Roller Diameter: 2.000

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	CWD122C6CR	16.00	C	7.50	5.00	6.00	180.0
6	CWD122C6CRF*	16.00	C	8.00	5.00	6.00	270.0
7	CWD122C7CR	18.44	C	8.00	5.00	6.00	210.0

* Standard Flange Width is 16.75"

WD120 CAST TOOTH SPROCKETS — PITCH 6.000

FOR CHAINS NO.: H-120, WD120, WDH120

Tooth Face at Pitch Line: 8.750 — Roller Diameter: 2.000

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	CWD120C6	12.00	C	6.00	5.00	5.00	130.0
8	CWD120C8	15.68	C	6.00	5.00	5.00	250.0
9	CWD120C9	17.54	C	8.00	5.00	6.00	232.0
10	CWD120C10	19.42	C	8.00	5.00	6.00	215.0
11	CWD120C11	21.30	C	8.00	5.00	6.00	308.0

WD123 CAST TOOTH SPROCKETS — PITCH 9.00

FOR CHAINS NO.: C123, CC123, HC123, SD23, SD23A

Tooth Face at Pitch Line: 6.250 — Roller Diameter: 2.500

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
8	CWD123C8	23.52	C	8.00	6.00	6.44	481.0

H121 CAST TOOTH SPROCKETS — PITCH 9.00

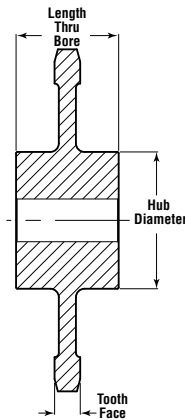
FOR CHAINS NO.: CC121, HC121, SD21, SD21A

Tooth Face at Pitch Line: 8.625 — Roller Diameter: 2.500

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
8	CWD121C8	23.52	C	10.00	6.00	8.00	130.0

NOTE: Weights and Dimensions are approximate. Please consult *Martin* for max hub information. All Cast Sprockets available as Split Sprockets. CHAINSAVER rims available on request.

HEAT TREAT available upon request.



H124 CAST TOOTH SPROCKETS — PITCH 4.00 CHILLED RIM

FOR CHAINS NO.: C124, H124, H87, WH124, WHX124, WHX124HD, WR124, WS124, WSX124

Tooth Face at Pitch Line: 1.500 — Roller Diameter: 1.438

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
7	C124C7CR	9.22	C	6.00	4.00	3.94	38.0
8	C124C8CR	10.45	C	6.50	4.25	4.94	52.0
9	C124C9CR	11.70	C	6.50	4.25	5.44	45.0
10	C124C10CR	12.94	C	7.00	4.25	5.44	73.0
11	C124C11CR	14.20	C	7.00	4.25	5.95	75.0
12	C124C12CR	15.45	C	7.00	4.25	6.00	80.0
13	C124C13CR	16.71	C	7.00	5.25	6.00	100.0
15	C124C15CR	17.98	C	7.00	5.25	6.00	103.0
16	C124C16CR	19.24	C	7.00	5.25	6.00	112.0
17	C124C17CR	20.50	C	7.00	5.25	6.00	125.0
18	C124C18CR	21.77	C	7.50	5.50	6.50	135.0
19	C124C19CR	23.04	C	7.50	5.50	6.50	145.0
20	C124C20CR	24.30	C	7.50	5.50	6.50	154.0
22	C124C22CR	25.57	C	8.00	6.00	6.50	161.0
27	C124C27CR	28.11	C	8.00	6.00	6.50	176.0
28	C124C28CR	34.46	C	10.00	6.00	8.00	240.0
30	C124C30CR	38.27	C	10.00	6.00	8.00	290.0
34	C124C34CR	43.35	C	10.00	6.00	8.00	300.0
37	C124C37CR	47.18	C	10.00	6.00	8.00	410.0

130 CAST TOOTH SPROCKETS — PITCH 4.000 CHILLED RIM

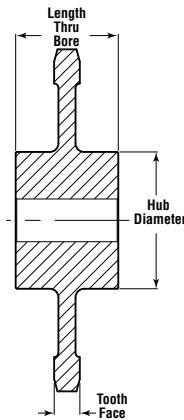
FOR CHAINS NO.: 131, 138, 130RT, 138RT, H-130, H-138, WH784, WHT130/138, WS784

Tooth Face at Pitch Line: 1.000 — Roller Diameter: 1.000

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
5	C130C5CR	6.77	C	3.00	2.75	2.00	18.0
6	C130C6CR	8.00	C	4.50	3.00	2.50	20.0
7	C130C7CR	9.22	C	4.75	3.00	3.94	24.0
8	C130C8CR	10.45	C	5.25	3.00	4.50	27.0
9	C130C9CR	11.70	C	5.75	3.00	4.50	33.0
10	C130C10CR	12.94	C	6.00	4.00	5.00	46.0
11	C130C11CR	14.20	C	6.00	4.00	5.00	54.0
12	C130C12CR	15.45	C	6.50	4.00	5.50	73.0
13	C130C13CR	16.71	C	6.50	4.00	5.50	58.0
14	C130C14CR	17.95	C	6.50	4.00	5.50	80.0
16	C130C16CR	20.50	C	6.50	4.00	5.50	75.0
24	C130C24CR	36.47	C	10.00	6.00	8.00	274.0

NOTE: Weights and Dimensions are approximate. Please consult *Martin* for max hub information. All Cast Sprockets available as Split Sprockets. CHAINSAVER rims available on request. HEAT TREAT available upon request.

Cast Iron Sprocket



132 CAST TOOTH SPROCKETS — PITCH 6.050 CHILLED RIM

FOR CHAINS NO.: 6150PM, A132, A132WS, AX132, AX132WS, AZ132WS, C132, C132C, C132M, C132W1, C132W2, CR-N132, DW132, ER150, ERA150, HSB150, MBP132, MBP132C, MPB132, MPBP132C, PW132, SS150+, SXA150, W132, W157, WH132, WH132HD, WH132XHD, WH150, WH150HD, WH150XHD, WH157, WH2012, WH2855, WH3855, WHX132, WHX150, WHX150, SX150, WHX155, WHX157, WHX159, WHX2855, WHX3855, WSX132

Tooth Face at Pitch Line: 2.750 — Roller Diameter: 1.750

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
5	C132C5CR	10.20	C	6.00	6.00	4.00	59.0
6	C132C6CR	12.10	C	6.00	6.00	4.00	100.0
8	C132C8CR*	15.81	C	8.00	7.00	6.00	163.0
9	C132C9CR*	17.69	C	8.00	7.00	6.00	165.0
10	C132C10CR*	19.57	C	8.00	7.00	6.00	186.0
11	C132C11CR*	21.47	C	8.00	8.00	6.00	215.0
12	C132C12CR*	23.38	C	8.00	8.00	6.00	258.0
13	C132C13CR	25.28	C	8.00	8.00	6.00	280.0
14	C132C14CR	27.19	C	10.00	8.00	8.00	296.0
15	C132C15CR	29.10	C	10.00	8.00	8.00	372.0
16	C132C16CR	31.01	C	10.00	8.00	8.00	302.0
18	C132C17CR	34.84	C	10.00	8.00	8.00	445.0
19	C132C18CR	36.76	C	10.00	8.00	8.00	486.0
20	C132C19CR	38.67	C	10.00	8.00	8.00	495.0

*Available Flanged - Consult Factory.

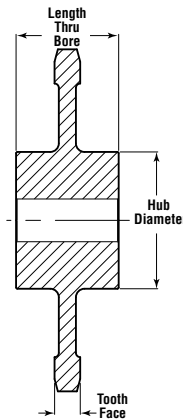
182 CAST TOOTH SPROCKETS — PITCH 3.000 CHILLED RIM

FOR CHAINS NO.: 1183, 1583, 3013, 53R, MSR-3013, RS3013, SR183

Tooth Face at Pitch Line: 0.8125 — Roller Diameter: 1.500

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C183C6CR	6.00	C	4.00	3.00	2.68	10.0
7	C183C7CR	6.92	C	4.00	3.00	2.68	14.0
8	C183C8CR	7.84	C	4.00	3.00	2.68	14.0
9	C183C9CR	8.77	C	5.00	3.00	2.94	22.0
10	C183C10CR	9.71	C	5.00	3.00	2.94	21.0
11	C183C11CR	10.65	C	5.00	3.00	2.94	30.0
12	C183C12CR	11.59	C	5.00	3.00	3.18	28.0
13	C183C13CR	12.54	C	6.00	3.00	3.49	38.0
14	C183C14CR	13.48	C	6.00	4.00	4.00	40.0
15	C183C15CR	14.43	C	6.00	4.00	4.00	43.0
16	C183C16CR	15.38	C	6.00	4.00	4.00	46.0
18	C183C18CR	17.28	C	6.00	4.00	4.00	55.0
19	C183C19CR	18.23	C	6.00	4.00	4.00	67.0
20	C183C20CR	19.18	C	8.00	4.00	6.00	65.0
24	C183C24CR	22.98	C	8.00	4.00	6.00	75.0
25	C183C25CR	23.94	C	8.00	4.00	6.00	85.0
38	C183C38CR	36.33	C	8.00	4.00	6.00	140.0

NOTE: Weights and Dimensions are approximate. Please consult *Martin* for max hub information. All Cast Sprockets available as Split Sprockets. CHAINSAVER rims available on request. HEAT TREAT available upon request.



188 CAST TOOTH SPROCKETS — PITCH 4.000 CHILLED RIM

FOR CHAINS NO.: 1188, 2188, 4113, 91R, LXS-4113, RS2188, RS4113. NOT for C-188 (2.609P) see W-78, SR188, SS218

Tooth Face at Pitch Line: 0.9375 — Roller Diameter: 1.750

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
5	C188C5CR	6.78	C	4.00	3.00	2.50	14.0
6	C188C6CR	8.00	C	4.00	3.00	3.44	15.0
7	C188C7CR	9.22	C	4.00	3.00	3.68	27.0
8	C188C8CR	10.45	C	6.00	4.00	3.94	35.0
9	C188C9CR	11.70	C	6.00	4.00	3.94	32.0
10	C188C10CR	12.94	C	6.00	4.00	3.94	43.0
11	C188C11CR	14.19	C	6.50	4.00	4.44	50.0
12	C188C12CR	15.45	C	6.50	4.00	4.44	60.0
13	C188C13CR	16.71	C	8.00	5.00	5.00	36.0
15	C188C15CR	19.24	C	8.00	5.00	5.00	39.0
19	C188C19CR	24.30	C	10.00	5.00	6.00	48.0
24	C188C24CR	30.64	C	10.00	5.00	6.00	58.0

194 CAST TOOTH SPROCKETS — PITCH 4.000 CHILLED RIM

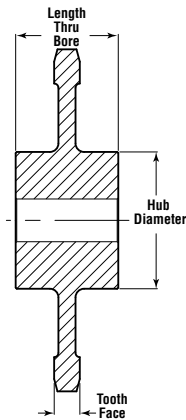
FOR CHAINS NO.: 194, 1400, 1594, 2066, 4215, 14-1/2, 83-R, 83R, GL-194, LXS-4216, S1194, SR-194, SR194, U194, US-90-R, US90R

Tooth Face at Pitch Line: 1.000 — Roller Diameter: 2.000

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
7	C194C7CR	9.22	C	5.00	4.00	3.62	30.0
8	C194C8CR	10.45	C	5.00	4.00	3.62	36.0
9	C194C9CR	11.70	C	5.00	4.00	3.62	40.0
10	C194C10CR	12.94	C	6.00	4.00	3.62	47.0
11	C194C11CR	14.20	C	6.50	4.00	3.62	62.0
12	C194C12CR	15.46	C	6.50	4.00	3.62	55.0
13	C194C13CR	16.71	C	6.50	4.00	3.62	64.0
14	C194C14CR	17.98	C	6.50	4.00	3.62	90.0
15	C194C15CR	19.14	C	7.50	4.00	3.62	81.0
19	C194C19CR	24.30	C	7.50	4.00	3.62	121.0

NOTE: Weights and Dimensions are approximate. Please consult *Martin* for max hub information. All Cast Sprockets available as Split Sprockets. CHAINSAVER rims available on request. HEAT TREAT available upon request.

Cast Iron Sprocket



196 CAST TOOTH SPROCKETS — PITCH 6.000 CHILLED RIM

FOR CHAINS NO.: 196, 1114, 1116, 2126, 6018, 604R, 627R, 634R, GL-196, MSR-1116, MSR-6018, SR196, SR911, SRC196, SRD1960, SS-1114, US196R, US196RA42

Tooth Face at Pitch Line: 1.000 — Roller Diameter: 2.000

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
5	C196C5CR	10.21	C	6.00	4.00	4.00	28.0
6	C196C6CR	12.00	C	6.00	4.00	4.00	33.0
7	C196C7CR	13.83	C	6.50	4.00	4.00	49.0
8	C196C8CR	15.68	C	6.50	5.00	4.56	84.0
9	C196C9CR	17.54	C	6.50	5.00	4.56	93.0
10	C196C10CR	19.42	C	7.00	5.00	4.56	114.0
12	C196C12CR	23.18	C	7.00	5.00	4.56	148.0
13	C196C13CR	25.07	C	7.00	5.00	4.56	119.0
14	C196C14CR	26.96	C	7.00	5.00	4.56	128.0
16	C196C16CR	30.76	C	8.00	5.00	4.56	160.0
18	C196C18CR	34.55	C	8.00	5.00	4.56	195.0
19	C196C19CR	36.45	C	8.00	5.00	4.56	210.0
25	C196C25CR	47.87	C	8.00	5.00	4.56	304.0

197 CAST TOOTH SPROCKETS — PITCH 6.000 CHILLED RIM

FOR CHAINS NO.: 614, 1130, 1617, 6018, 607R, 614R, CC5, GL-197, LXS-6238, MR-1130, RS2190 197, SR-3130, SS-2190

Tooth Face at Pitch Line: 1.125 — Roller Diameter: 2.500

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C197C6CR	12.00	C	6.00	5.00	4.75	45.0
7	C197C7CR	13.83	C	6.50	5.00	4.75	60.0
8	C197C8CR	15.68	C	6.50	5.00	4.75	75.0
9	C197C9CR	17.54	C	6.50	5.00	4.75	84.0
10	C197C10CR	19.42	C	7.00	5.00	4.75	94.0
11	C197C11CR	21.30	C	7.00	5.00	4.75	100.0
12	C197C12CR	23.18	C	7.00	5.00	4.75	125.0
15	C197C15CR	28.86	C	7.00	5.00	4.75	178.0

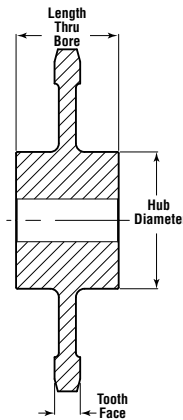
348 CAST TOOTH SPROCKETS — PITCH 3.031 CHILLED RIM

FOR CHAINS NO.: 348, N348, S348, X348

Tooth Face at Pitch Line: 0.687 — Roller Diameter: 1.0625

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
4	C348C4CR	7.92	C	4.00	4.00	2.00	11.0
5	C348C5CR	9.71	C	4.00	4.00	2.00	19.0
6	C348C6CR	11.59	C	5.00	4.00	3.00	24.0
7	C348C7CR	13.48	C	5.00	4.00	3.00	43.0
8	C348C8CR	15.54	C	5.00	4.00	3.00	43.0
9	C348C9CR	17.28	C	7.00	4.00	5.00	51.0
10	C348C10CR	19.18	C	7.00	4.00	5.00	68.0
11	C348C11CR	21.03	C	7.00	4.00	5.00	75.0
12	C348C12CR	22.98	C	7.00	4.00	5.00	83.0
16	C348C16CR	30.60	C	7.00	4.00	5.00	120.0
19	C348C19CR	36.33	C	7.00	4.00	5.00	159.0

NOTE: Weights and Dimensions are approximate. Please consult *Martin* for max hub information. All Cast Sprockets available as Split Sprockets. CHAINSAVER rims available on request. HEAT TREAT available upon request.



458 CAST TOOTH SPROCKETS — PITCH 4.031 CHILLED RIM

FOR CHAINS NO.: 458, S458, X458

Tooth Face at Pitch Line: 0.875 — Roller Diameter: 1.380

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
3	C458C3CR	7.95	C	4.50	5.00	2.00	14.0
4	C458C4CR	10.54	C	5.00	5.00	3.00	27.0
5	C458C5CR	13.05	C	6.00	5.00	5.06	40.0
6	C458C6CR	15.58	C	6.00	5.00	5.06	63.0
7	C458C7CR	18.12	C	7.00	5.00	5.06	70.0
8	C458C8CR	20.66	C	7.00	5.00	5.06	93.0
9	C458C9CR	23.13	C	7.50	5.00	5.06	130.0
10	C458C10CR	25.77	C	7.50	5.00	5.06	145.0
11	C458C11CR	28.33	C	7.50	5.00	5.06	193.0
12	C458C12CR	30.68	C	7.50	5.00	5.06	200.0
14	C458C14CR	35.87	C	8.00	5.00	5.06	228.0
19	C458C19CR	48.63	C	8.00	5.00	5.06	345.0

WD480 CAST TOOTH SPROCKETS — PITCH 8.000 CHILLED RIM

FOR CHAINS NO.: 480, 8480, H480, WD480, WDH2380, WDH480, WDH580, WDH680, WS480, WSD480

Tooth Face at Pitch Line: 11.125 — Roller Diameter: 2.00

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	CWD480C6*	16.00	C	7.00	5.00	5.00	237.0
7	CWD480C7*	18.44	C	7.50	5.00	5.00	295.0
8	CWD480C8*	20.90	C	7.50	6.00	5.00	290.0
9	CWD480C9*	23.39	C	7.50	6.00	5.00	380.0
10	CWD480C10*	25.89	C	8.00	6.00	5.00	381.0
11	CWD480C11	28.40	C	8.00	6.00	5.00	505.0

* Available Flanged - Consult Factory.

468 CAST TOOTH SPROCKETS — PITCH 4.031 CHILLED RIM

FOR CHAINS NO.: 468, 468A, S468

Tooth Face at Pitch Line: 1.375 — Roller Diameter: 1.880

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
4	C468C4CR	10.53	C	5.00	4.00	3.00	36.0
5	C468C5CR	13.05	C	6.00	4.00	4.00	52.0
6	C468C6CR	15.58	C	6.50	4.00	4.50	80.0
7	C468C7CR	18.12	C	6.50	4.00	4.50	92.0
8	C468C8CR	20.66	C	6.50	4.00	4.50	118.0
9	C468C9CR	23.21	C	7.00	4.00	5.00	148.0
10	C468C10CR	25.77	C	7.00	4.00	5.00	160.0
12	C468C12CR	30.88	C	7.00	4.00	5.00	240.0

463 CAST TOOTH SPROCKETS — PITCH 4.000

FOR CHAINS NO.: 483, S4830K23

Tooth Face at Pitch Line: 0.875 — Roller Diameter: 0.940

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
8	C483C8	10.45	C	5.00	5.00	2.75	30.0
9	C483C9	11.70	C	5.00	5.00	2.75	35.0
12	C483C12	15.45	C	6.00	5.00	3.00	65.0
13	C483C13	16.72	C	6.00	5.00	3.00	70.0
19	C483C19	24.30	C	8.00	5.00	6.00	124.0

NOTE: Weights and Dimensions are approximate. Please consult *Martin* for max hub information. All Cast Sprockets available as Split Sprockets.

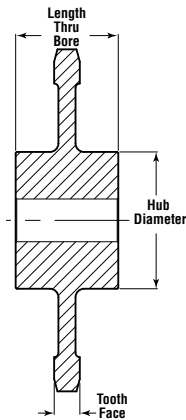
CHAINSAVER rims available on request.

HEAT TREAT available upon request.

* Standard Flange Plain Chain is 18.625" OAW; Standard Chain is 22" OAW.

◇ Special machining charges apply.

Cast Iron Sprocket



520 CAST TOOTH SPROCKETS — PITCH 2.563 CHILLED RIM

FOR CHAINS NO.: 520-RX, 520RX, A520, IS-2625, IS2625, SS-520, SS520

Tooth Face at Pitch Line: 0.875 — Roller Diameter: 1.125

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
10	C520C10CR	8.29	C	4.00	3.00	2.00	4.0
12	C520C12CR	9.90	C	4.00	3.00	2.00	5.0
14	C520C14CR	11.53	C	5.00	3.00	2.50	34.0
18	C520C18CR	14.76	C	5.00	3.00	2.50	65.0
24	C520C24CR	19.64	C	6.00	3.00	3.00	100.0
30	C520C30CR	24.52	C	7.50	3.00	3.00	112.0
40	C520C40CR	32.67	C	7.50	3.00	3.00	165.0

625R CAST TOOTH SPROCKETS — PITCH 6.000 CHILLED RIM

FOR CHAINS NO.: 1258, 1604R, 625R, 626R, 629R, SS658

Tooth Face at Pitch Line: 1.125 — Roller Diameter: 3.000

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C625C6CR	12.00	C	6.00	4.00	4.00	62.0
8	C625C8CR	15.68	C	7.00	4.00	5.00	78.0
10	C625C10CR	19.42	C	8.00	5.00	6.00	96.0
12	C625C12CR	23.18	C	8.00	5.00	6.00	114.0
13	C625C13CR	25.07	C	8.00	5.00	6.00	123.0

531 CAST TOOTH SPROCKETS — PITCH 4.000 CHILLED RIM

FOR CHAINS NO.: 149, 531, 4328, 89R, IS4328, LXS4328, MSR4328, RS4328, S531, SS149

Tooth Face at Pitch Line: 1.187 — Roller Diameter: 2.25

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C531C6	8.00	C	5.00	4.00	2.94	34.0
8	C531C8	10.45	C	6.00	4.00	3.44	34.0
10	C531C10	12.94	C	7.00	4.00	3.94	47.0
12	C531C12	15.45	C	7.00	4.00	4.44	66.0
14	C531C14	17.99	C	7.50	4.00	5.00	75.0
15	C531C15	19.24	C	7.50	4.00	5.00	85.0
16	C531C16	20.50	C	7.50	4.00	5.00	94.0
17	C531C17	21.77	C	7.50	4.00	5.00	107.0
19	C531C19	24.30	C	7.50	4.00	5.00	120.0

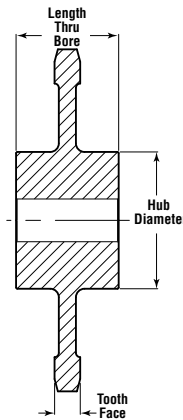
667 CAST TOOTH SPROCKETS — PITCH 2.250 CHILLED RIM

FOR CHAINS NO.: 667, J-X-K-53

Tooth Face at Pitch Line: 1.000 — Roller Diameter: 1.062

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C667C6CR	4.50	C	2.50	2.50	1.50	9.0
8	C667C8CR	5.87	C	3.00	2.75	1.50	10.0
11	C667C11CR	7.98	C	4.00	2.75	2.00	15.0

NOTE: Weights and Dimensions are approximate. Please consult *Martin* for max hub information. All Cast Sprockets available as Split Sprockets. CHAINSAVER rims available on request. HEAT TREAT available upon request.



678 CAST TOOTH SPROCKETS — PITCH 6.031 CHILLED RIM

FOR CHAINS NO.: 678, S678, X678

Tooth Face at Pitch Line: 1.187 — Roller Diameter: 2.00

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
3	C678C3CR	12.06	C	6.00	4.50	3.00	30.0
4	C678C4CR	15.72	C	6.00	4.50	3.00	77.0
5	C678C5CR	19.52	C	7.00	4.50	3.50	93.0
6	C678C6CR	23.34	C	8.00	4.50	4.00	146.0
7	C678C7CR	27.03	C	8.50	4.50	4.00	190.0
8	C678C8CR	30.83	C	8.50	4.50	4.00	240.0

698 CAST TOOTH SPROCKETS — PITCH 6.031 CHILLED RIM

FOR CHAINS NO.: 698, S698, S698HD

Tooth Face at Pitch Line: 1.375 — Roller Diameter: 2.69

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
5	C698C5CR	19.52	C	8.00	5.00	6.00	122.0
6	C698C6CR	23.38	C	8.00	5.00	6.00	135.0
7	C698C7CR	26.96	C	8.00	5.00	6.00	200.0
8	C698C8CR	30.92	C	8.00	5.00	6.00	275.0

CS720S CAST TOOTH SPROCKETS — PITCH 6.000 CHILLED RIM

FOR CHAINS NO.: CS720S, WH720CS

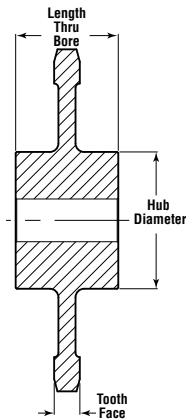
Tooth Face at Pitch Line: 1.00 — Roller Diameter: 1.44

Number of Teeth	Catalog Number	Pitch Diam.	Style	Hub Diam.	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6.5P-13T	C720C13HCR*	12.89	C	6.00	4.00	3.00	65.0
8.5P-17T	C720C17HCR*	16.59	C	6.00	4.00	3.00	98.2
9	C720C9CR	17.51	C	6.00	4.00	3.00	80.0
9.5P-19T	C720C19HCR*	18.48	C	6.00	4.00	3.00	115.3
10	C720C10CR	19.42	C	6.00	4.00	3.00	95.0
10.5P-21T	C720C21HCR*	20.33	C	7.00	5.00	3.50	110.0
11	C720C11CR	21.30	C	7.00	5.00	3.50	105.0
11.5P-23T	C720C23HCR*	22.24	C	7.00	5.00	3.50	127.7
12.5P-25T	C720C25HCR*	24.12	C	7.00	5.00	3.50	141.3
13	C720C13CR	25.07	C	7.00	5.00	3.50	130.0
16	C720C16CR	30.75	C	7.00	5.00	3.50	180.0

* Regular and DoubleLife (Hunting Tooth) Designs

NOTE: Weights and Dimensions are approximate. Please consult *Martin* for max hub information. All Cast Sprockets available as Split Sprockets. CHAINSAVER rims available on request. HEAT TREAT available upon request.

Cast Iron Sprocket



720S

CAST TOOTH SPROCKETS — PITCH 6.000 CHILLED RIM

FOR CHAINS NO.: 720, 720S

Tooth Face at Pitch Line: 1.00 — Roller Diameter: 1.4375

Number of Teeth	Catalog Number	Pitch Diam.	Style	Hub Diam.	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C720C6CR	12.00	C	6.00	4.00	3.00	47.0
6.5P-13T	C720C13HCR*	12.91	C	6.00	4.00	3.00	53.1
8	C720C8CR	15.68	C	6.00	4.00	3.00	70.0
8.5P-17T	C720C17HCR*	16.61	C	6.00	4.00	3.00	92.2
9	C720C9CR	17.51	C	6.00	4.00	3.00	80.0
9.5P-19T	C720C19HCR*	18.48	C	6.00	4.00	3.00	107.3
10	C720C10CR	19.42	C	6.00	4.00	3.00	95.0
10.5P-21T	C720C21HCR*	20.33	C	6.00	4.00	3.00	110.0
11	C720C11CR	21.30	C	6.00	4.00	3.00	105.0
11.5P-23T	C720C23HCR*	24.12	C	6.00	4.00	3.00	131.5
12	C720C12CR	23.18	C	7.00	5.00	3.50	120.0
12.5P-25T	C720C25HCR*	24.12	C	7.00	5.00	3.50	131.5
13	C720C13CR	25.07	C	7.00	5.00	3.50	130.0
15	C720C15CR	28.86	C	7.00	5.00	3.50	155.0
16	C720C16CR	30.75	C	7.00	5.00	3.50	180.0
19	C720C19CR	36.44	C	7.50	5.00	3.75	220.0
20	C720C20CR	38.36	C	7.50	5.00	3.75	242.0
21	C720C21CR	40.25	C	7.50	5.00	3.75	261.0
23	C720C23CR	44.06	C	7.50	5.00	3.75	318.0
25	C720C25CR	47.87	C	7.50	5.00	3.75	342.0

* Regular and DoubleLife (Hunting Tooth) Designs

A730

CAST TOOTH SPROCKETS — PITCH 6.000 CHILLED RIM

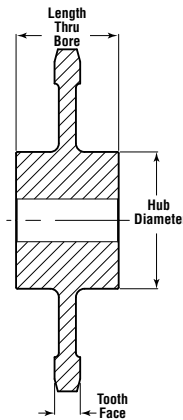
FOR CHAINS NO.: 730, A730

Tooth Face at Pitch Line: 1.125 — Roller Diameter: 1.500

Number of Teeth	Catalog Number	Pitch Diam.	Style	Hub Diam.	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C730C6CR	12.00	C	6.00	4.00	3.00	47.9
8	C730C8CR	15.68	C	6.00	4.00	3.00	71.3
9	C730C9CR	17.54	C	6.00	4.00	3.00	85.5
9.5P-19T	C730C19HCR*	18.48	C	6.00	4.00	3.00	107.3
10P-20T	C730C20HCR*	19.42	C	6.00	4.00	3.00	115.4
11	C730C11CR	21.30	C	6.00	4.00	3.00	105.0
11.5P-23T	C730C23HCR*	22.24	C	6.00	4.00	3.00	104.5
12	C730C12CR	23.14	C	7.00	5.00	3.50	110.8
12.5P-25T	C730C25HCR*	24.12	C	7.00	5.00	3.50	117.9
13	C730C13CR	25.07	C	7.00	5.00	3.50	125.1
13.5P-27T	C730C27HCR*	26.02	C	7.00	5.00	3.50	132.5
14	C730C14CR	26.96	C	7.00	5.00	3.50	153.7
15	C730C15CR	28.86	C	7.00	5.00	3.50	170.0
16	C730C16CR	30.75	C	7.00	5.00	3.50	187.2
18	C730C18CR	34.55	C	8.00	5.00	4.00	225.2
24	C730C24CR	45.79	C	8.00	5.00	4.00	363.5
27	C730C27CR	57.68	C	8.00	5.00	4.00	408.

* Regular and DoubleLife (Hunting Tooth) Designs

NOTE: Weights and Dimensions are approximate. Please consult *Martin* for max hub information. All Cast Sprockets available as Split Sprockets. CHAINSAVER rims available on request. HEAT TREAT available upon request.



823 CAST TOOTH SPROCKETS — PITCH 6.000 CHILLED RIM

FOR CHAINS NO.: 823

Tooth Face at Pitch Line: 1.130 — Roller Diameter: 0.780

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
8	C823C8CR	10.45	C	6.00	4.00	2.44	25.0
10	C823C10CR	12.95	C	6.00	4.00	3.18	45.0
11	C823C11CR	14.40	C	6.00	4.00	3.68	54.0
12	C823C12CR	15.46	C	6.00	4.00	3.94	56.0
13	C823C13CR	16.71	C	6.00	4.00	4.44	60.0
14	C823C14CR	17.98	C	7.00	4.00	4.94	65.0
16	C823C16CR	20.51	C	7.00	4.00	5.44	81.0
17	C823C17CR	21.77	C	7.50	4.00	5.94	86.0
18	C823C18CR	23.04	C	7.50	4.00	5.94	91.0
19	C823C19CR	24.26	C	8.00	4.00	6.00	95.0
24	C823C24CR	30.65	C	8.00	4.00	6.00	138.0

830 CAST TOOTH SPROCKETS — PITCH 6.000 CHILLED RIM

FOR CHAINS NO.: 830, 6830, 830R, HSB830, RR830, SR830

Tooth Face at Pitch Line: 1.312 — Roller Diameter: 1.156

Number of Teeth	Catalog Number	Pitch Diam.	Style	Hub Diam.	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C830C6CR	12.00	C	6.00	4.00	4.00	58.5
8	C830C8CR	15.65	C	7.00	4.00	5.00	83.0
9	C830C9CR	17.54	C	7.00	4.00	5.00	95.0
10	C830C10CR	19.42	C	7.00	4.00	5.00	102.0
11	C830C11CR	21.20	C	7.00	4.00	5.00	105.0
11.5 -23T	C830C23HCR*	22.21	C	7.50	5.00	5.50	125.0
12	C830C12CR	23.18	C	7.50	5.00	5.50	121.0
13	C830C13CR	25.07	C	8.50	5.00	6.00	142.0
15	C830C15CR	28.86	C	8.50	5.00	6.00	168.0
16	C830C16CR	30.75	C	8.50	5.00	6.00	180.0

* Hunting Tooth

825 CAST TOOTH SPROCKETS — PITCH 4.000 CHILLED RIM

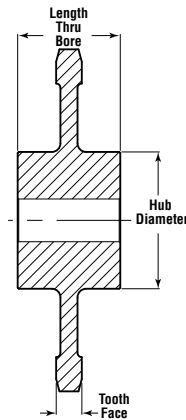
FOR CHAINS NO.: 825, SR825

Tooth Face at Pitch Line: 1.250 — Roller Diameter: 1.156

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
10	C825C10CR	12.94	C	6.00	4.00	3.00	58.0
11	C825C11CR	14.20	C	6.00	4.00	3.00	65.0
12	C825C12CR	15.45	C	6.00	4.00	3.00	78.0
13	C825C13CR	16.71	C	6.00	4.00	3.00	82.0
14	C825C14CR	17.98	C	8.00	4.00	3.00	94.0
15	C825C15CR	19.24	C	8.00	4.00	4.00	112.0
16	C825C16CR	20.50	C	8.00	4.00	4.00	115.0
19	C825C19CR	24.30	C	8.00	4.00	4.00	140.0

NOTE: Weights and Dimensions are approximate. Please consult *Martin* for max hub information. All Cast Sprockets available as Split Sprockets. CHAINSAVER rims available on request. HEAT TREAT available upon request.

Cast Iron Sprocket



844 CAST TOOTH SPROCKETS — PITCH 6.000 CHILLED RIM

FOR CHAINS NO.: 844, 6844, 6844M, 844R, HSB844, HSB844S, S844, SBS844, SR844

Tooth Face at Pitch Line: 2.125 — Roller Diameter: 1.190

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
8	C844C8CR	15.88	C	7.00	5.00	5.00	94.0
9	C844C9CR	17.54	C	7.00	5.00	5.00	112.0
10	C844C10CR	19.42	C	7.00	5.00	5.00	125.0
11	C844C11CR	21.30	C	7.00	5.00	5.00	140.0
12	C844C12CR	23.18	C	8.00	6.00	6.00	160.0
13	C844C13CR	25.07	C	8.00	6.00	6.00	171.0
15	C844C15CR	28.86	C	8.00	6.00	6.00	200.0
16	C844C16CR	30.75	C	8.00	6.00	6.00	217.0
19	C844C19CR	36.45	C	8.00	6.00	6.00	275.0

E922 CAST TOOTH SPROCKETS — PITCH 6.000 CHILLED RIM

FOR CHAINS NO.: 1751, ER922, MRS927, SS927

Tooth Face at Pitch Line: 1.625 — Roller Diameter: 3.500

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	CE922C6CR	18.00	C	8.00	6.00	5.94	112.0
8	CE922C8CR	23.52	C	8.00	6.00	5.94	170.0

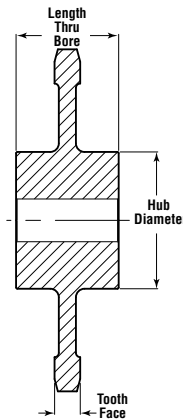
856 CAST TOOTH SPROCKETS — PITCH 6.000 CHILLED RIM

FOR CHAINS NO.: 844, 6844, 6844M, 844R, HSB844, HSB844S, S844, SBS844, SBS844, SR844

Tooth Face at Pitch Line: 2.125 — Roller Diameter: 1.190

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
7	C856C7	13.83	C	6.50	5.00	4.75	122.0
8	C856C8	15.68	C	6.50	5.00	4.75	130.0
10	C856C10	19.42	C	7.00	5.00	4.75	200.0
11	C856C11	21.30	C	7.00	5.00	4.75	230.0
12	C856C12	23.18	C	7.00	5.50	5.00	245.0
13	C856C13	25.07	C	7.50	5.50	5.00	260.0
14	C856C14	26.96	C	7.50	5.50	5.00	285.0
15	C856C15	28.86	C	7.50	5.50	5.00	300.0

NOTE: Weights and Dimensions are approximate. Please consult *Martin* for max hub information. All Cast Sprockets available as Split Sprockets. CHAINSAVER rims available on request. HEAT TREAT available upon request.



F933 CAST TOOTH SPROCKETS — PITCH 9.000 CHILLED RIM

FOR CHAINS NO.: 933, B964R, E933, ER933, F-933, F929, F932, F933, F940, FB40, FR933, RS933F, RS933P, SS932, SS933, SS940

Tooth Face at Pitch Line: 1.250 — Roller Diameter: 4.000

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	CF933C6CR	18.00		8.00	8.00	5.94	93.0
7	CF933C7CR	20.74		8.00	8.00	5.94	120.0
8	CF933C8CR	23.52		8.00	8.00	5.94	152.0

B963R CAST TOOTH SPROCKETS — PITCH 9.000 CHILLED RIM

FOR CHAINS NO.: 809, 925R, B963R, E931, F922, F930, FR922, SS4002, SS922, SS930

Tooth Face at Pitch Line: 1.125 — Roller Diameter: 3.500

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	CB963CR6CR	18.00	C	6.00	6.00	2.93	74.0
8	CB963CR8CR	23.52	C	8.00	6.00	3.44	150.0
9	CB963CR9CR	26.31	C	8.00	6.00	3.44	160.0
10	CB963CR10CR	29.12	C	8.00	6.00	3.44	175.0
11	CB963CR11CR	31.95	C	8.00	6.00	4.00	181.0
12	CB963CR12CR	34.77	C	8.00	6.00	4.00	195.0

951 CAST TOOTH SPROCKETS — PITCH 9.000 CHILLED RIM

FOR CHAINS NO.: 1734, 1906, 2183, 2184, 1131R, 126C, 126CMR, 156CMR, 2184AC, 2184R, 6 Spec., 626R, 631R, F2183, LXS6438, MR126C, MR156C, S1131, S951, SS1131, SS2184, SS314, SS951, U1131

Tooth Face at Pitch Line: 1.062 — Roller Diameter: 3.00

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C951C6CR	12.00	C	6.00	6.00	3.94	62.0
8	C951C8CR	15.68	C	6.00	6.00	3.94	78.0
9	C951C9CR	17.54	C	6.00	6.00	3.94	92.0
12	C951C12CR	23.18	C	8.00	6.00	4.44	153.0
13	C951C13CR	25.03	C	8.00	6.00	4.44	175.0
14	C951C14CR	26.96	C	8.00	6.00	4.44	190.0
16	C951C16CR	30.75	C	8.00	6.00	4.44	225.0
25	C951C25CR	47.87	C	8.00	6.00	4.44	350.0

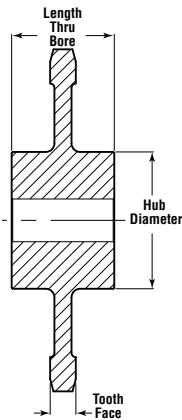
D963R CAST TOOTH SPROCKETS — PITCH 9.000 CHILLED RIM

FOR CHAINS NO.: D-963R

Tooth Face at Pitch Line: 1.750 — Roller Diameter: 3.500

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
8	CD963C8CR	23.52	C	10.00	8.00	6.44	170.0
9	CD963C9CR	26.31	C	10.00	8.00	6.44	182.0
10	CD963C10CR	29.12	C	10.00	8.00	6.44	198.0
11	CD963C11CR	31.95	C	10.00	8.00	6.44	215.0
12	CD963C12CR	34.77	C	10.00	8.00	6.44	230.0

Cast Iron Sprocket



E963R CAST TOOTH SPROCKETS — PITCH 9.000 CHILLED RIM

FOR CHAINS NO.: E-963R

Tooth Face at Pitch Line: 1.250 — Roller Diameter: 4.000

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
8	CE963C8	23.52	C	10.00	8.00	6.44	152.0
9	CE963C9	26.31	C	10.00	8.00	6.44	164.0
10	CE963C10	29.12	C	10.00	8.00	6.44	179.0
11	CE963C11	31.95	C	10.00	8.00	6.44	194.0
12	CE963C12	34.77	C	10.00	8.00	6.44	224.0

F963R CAST TOOTH SPROCKETS — PITCH 9.000 CHILLED RIM

FOR CHAINS NO.: F-963R (Hitachi)

Tooth Face at Pitch Line: 1.250 — Roller Diameter: 4.000

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	CF963C8	18.00	C	8.00	6.00	6.00	80.0
8	CF963C9	23.52	C	8.00	6.00	6.00	80.0

998 CAST TOOTH SPROCKETS — PITCH 9.031 CHILLED RIM

FOR CHAINS NO.: 998, S998, SS5998

Tooth Face at Pitch Line: 1.375 — Roller Diameter: 2.690

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
4	C197C6CR	23.53	C	9.00	6.00	6.44	195.0
5	C197C7CR	29.14	C	9.00	6.00	6.44	258.0
6	C197C8CR	34.81	C	9.00	6.00	6.44	325.0

1030 CAST TOOTH SPROCKETS — PITCH 3.075 CHILLED RIM

FOR CHAINS NO.: 1030, 1037, 1359, CHAMP 3, JS-1030, MSR-1539, MXS-1031, MXS-3075, MXS-40, R1033, R1035, R1037, ROA1031, ROA1032, ROA40 HYPER, RS1539, CHAMP3, SJLR1037, SS40, SS554, US-1030

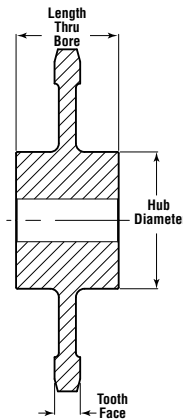
Tooth Face at Pitch Line: 1.250 — Roller Diameter: 1.250

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C1030C6CR	6.15	C	3.00	3.00	2.44	21.0
8	C1030C8CR	8.04	C	4.00	4.00	2.44	24.0
9	C1030C9CR	8.99	C	4.00	4.00	2.44	44.0
10	C1030C10CR	9.95	C	5.00	4.00	3.44	43.0
11	C1030C11CR	10.92	C	5.00	4.00	3.44	51.0
12	C1030C12CR	11.88	C	5.00	4.00	3.44	50.0
13	C1030C13CR	12.85	C	5.00	4.00	3.44	64.0
14	C1030C14CR	13.82	C	5.00	4.00	3.44	73.0
15	C1030C15CR	14.79	C	6.00	4.00	3.94	76.0
16	C1030C16CR	15.76	C	6.00	4.00	3.94	82.0
17	C1030C17CR	16.73	C	6.00	4.00	3.94	100.0
18	C1030C18CR	17.71	C	6.00	4.00	3.94	105.0
19	C1030C19CR	18.68	C	6.00	4.00	3.94	112.0
20	C1030C20CR	19.66	C	6.00	4.00	3.94	100.0
21	C1030C21CR	20.63	C	7.50	5.00	4.88	105.0
22	C1030C22CR	21.61	C	7.50	5.00	4.88	130.0
23	C1030C23CR	22.57	C	7.50	5.00	4.88	132.0
24	C1030C24CR	23.56	C	7.50	5.00	4.88	145.0
26	C1030C26CR	25.51	C	7.50	5.00	4.88	148.0
27	C1030C27CR	26.49	C	7.50	5.00	4.88	165.0
28	C1030C28CR	27.46	C	7.50	5.00	4.88	171.0
30	C1030C30CR	29.42	C	8.00	5.00	4.94	180.0
31	C1030C31CR	30.39	C	8.00	5.00	4.94	189.0
32	C1030C32CR	31.37	C	8.00	5.00	4.94	193.0
33	C1030C33CR	32.35	C	8.00	5.00	4.94	215.0
34	C1030C34CR	33.33	C	8.00	5.00	4.94	217.0
35	C1030C35CR	34.31	C	9.50	6.50	5.88	220.0
36	C1030C36CR	35.28	C	9.50	6.50	5.88	229.0
37	C1030C37CR	36.26	C	9.50	6.50	5.88	234.0
38	C1030C38CR	37.24	C	9.50	6.50	5.88	252.0
39	C1030C39CR	38.25	C	9.50	6.50	5.88	250.0
40	C1030C40CR	39.19	C	9.50	6.50	5.88	261.0
42	C1030C42CR	41.15	C	9.50	6.50	5.88	300.0
44	C1030C44CR	43.10	C	9.50	6.50	5.88	321.0
46	C1030C46CR	45.06	C	9.50	6.50	5.88	330.0
48	C1030C48CR	47.02	C	10.00	6.50	5.88	600.0
55	C1030C55CR	53.86	C	10.00	6.50	6.88	782.0

NOTE: Weights and Dimensions are approximate. Please consult *Martin* for max hub information. All Cast Sprockets available as Split Sprockets.

CHAINSAVER rims available on request.

HEAT TREAT available upon request.



1113 CAST TOOTH SPROCKETS — PITCH 4.040 CHILLED RIM

FOR CHAINS NO.: 3420, A3420, B3420, R02113, RS1113, SR3113, SS1113, SS60

Tooth Face at Pitch Line: 1.125 — Roller Diameter: 2.00

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C1113C6CR	8.08	C	4.00	3.00	2.44	24.0
8	C1113C8CR	10.56	C	4.00	4.00	2.94	38.0
9	C1113C9CR	11.81	C	5.00	4.00	3.18	40.0
10	C1113C10CR	13.07	C	5.00	4.00	3.68	45.0
11	C1113C11CR	14.34	C	5.00	5.00	3.94	50.0
12	C1113C12CR	15.61	C	6.00	5.00	4.44	60.0
13	C1113C13CR	16.88	C	6.00	5.00	4.94	68.0
14	C1113C14CR	18.16	C	6.00	5.00	4.94	85.0
16	C1113C16CR	20.71	C	6.00	5.00	4.94	95.0
17	C1113C17CR	21.99	C	6.00	5.00	4.94	104.0
18	C1113C18CR	23.67	C	8.00	6.00	4.94	110.0
24	C1113C24CR	30.95	C	8.00	6.00	4.94	178.0

1120 CAST TOOTH SPROCKETS — PITCH 4.000 CHILLED RIM

FOR CHAINS NO.: 1120 (TBL 13-47), 2761, 4, 40SP, LXS 4019, RR1120 (TBL 13-14 R95), RS4029, SS4

Tooth Face at Pitch Line: 0.750 — Roller Diameter: 1.500

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
5	C1120C5CR	6.81	C	3.50	3.00	2.18	12.0
6	C1120C6CR	8.00	C	4.00	3.00	2.44	23.0
7	C1120C7CR	9.22	C	4.50	3.00	3.68	72.0
8	C1120C8CR	10.45	C	4.50	3.00	3.68	29.0
9	C1120C9CR	11.70	C	5.00	3.00	3.94	38.0
10	C1120C10CR	12.94	C	5.00	4.00	3.94	40.0
11	C1120C11CR	14.19	C	6.00	4.00	4.25	50.0
12	C1120C12CR	15.45	C	6.00	4.00	4.25	65.0
14	C1120C14CR	17.98	C	6.00	4.00	4.25	77.0
15	C1120C15CR	19.24	C	6.00	4.00	4.25	86.0
16	C1120C16CR	20.50	C	8.00	5.00	6.00	97.0
18	C1120C18CR	23.04	C	8.00	5.00	6.00	115.0
19	C1120C19CR	24.30	C	8.00	5.00	6.00	125.0
22	C1120C22CR	28.11	C	8.00	5.00	6.00	165.0
24	C1120C24CR	30.65	C	8.00	5.00	6.00	190.0
31	C1120C31CR	39.54	C	9.50	6.00	7.00	244.0
35	C1120C35CR	44.62	C	9.50	6.00	7.00	322.0

1131 CAST TOOTH SPROCKETS — PITCH 6.000 CHILLED RIM

FOR CHAINS NO.: 2183, 6SP, A2184, RS1131

Tooth Face at Pitch Line: 1.250 — Roller Diameter: 3.000

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C1131C6CR	12.00	C	6.00	5.00	3.94	62.0
8	C1131C8CR	15.68	C	6.00	5.00	3.94	78.0
9	C1131C9CR	17.54	C	6.00	5.00	3.95	120.0
12	C1131C12CR	23.18	C	7.00	6.00	4.44	153.0
13	C1131C13CR	25.03	C	7.00	6.00	4.94	175.0
14	C1131C14CR	26.96	C	8.00	6.00	5.00	190.0
16	C1131C16CR	30.75	C	8.00	6.00	5.00	225.0
24	C1131C24CR	47.87	C	8.00	6.00	5.00	350.0

F1222 CAST TOOTH SPROCKETS — PITCH 12.000 CHILLED RIM

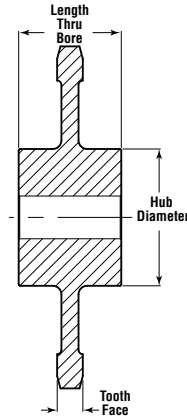
FOR CHAINS NO.: A1263, B1263R, FR1222, SS1222

Tooth Face at Pitch Line: 1.000 — Roller Diameter: 4.500

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	CF1222C6CR	24.00	C	7.50	5.00	5.94	143.0
8	CF1222C8CR	31.36	C	8.00	5.00	5.94	210.0

NOTE: Weights and Dimensions are approximate. Please consult *Martin* for max hub information. All Cast Sprockets available as Split Sprockets. CHAINSAVER rims available on request. HEAT TREAT available upon request.

Cast Iron Sprocket



2180 CAST TOOTH SPROCKETS — PITCH 6.000 CHILLED RIM

FOR CHAINS NO.: 530, 1126, 1212, 1670, 2180, 628R, A1670, B1670

Tooth Face at Pitch Line: 1.125 — Roller Diameter: 2.250

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C2180C6CR	12.00	C	6.00	5.00	4.00	50.0
8	C2180C8CR	15.68	C	6.00	5.00	4.00	64.0
16	C2180C16CR	30.76	C	8.00	6.00	6.00	200.0
20	C2180C20CR	38.36	C	10.00	6.00	8.00	260.0

9250 CAST TOOTH SPROCKETS — PITCH 2.500 CHILLED RIM

FOR CHAINS NO.: SM120

Tooth Face at Pitch Line: 0.750 — Roller Diameter: 1.130

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C9250C6CR	5.00	C	3.00	2.75	1.50	5.0
7	C9250C6CR	5.76	C	3.00	2.75	1.50	9.0
8	C9250C6CR	6.53	C	4.00	2.75	2.00	10.0
10	C9250C6CR	8.09	C	4.00	3.00	2.50	13.0
11	C9250C6CR	8.87	C	4.00	3.00	2.50	16.0
12	C9250C6CR	9.66	C	4.00	3.00	2.50	18.0
14	C9250C6CR	11.24	C	6.00	3.00	3.00	23.0
15	C9250C6CR	12.03	C	6.00	3.00	3.00	28.0
16	C9250C6CR	12.81	C	6.00	3.00	3.00	30.0

1240 CAST TOOTH SPROCKETS — PITCH 4.063 CHILLED RIM

FOR CHAINS NO.: 1240, 1241, 1244, IS-4106, IS-4110, LXS1242, R1248, ROA124, ROA1242, SS124

Tooth Face at Pitch Line: 1.750 — Roller Diameter: 1.750

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
6	C1240C6CR	8.13	C	4.00	4.00	2.31	30.0
7	C1240C7CR	9.36	C	5.25	4.75	3.25	39.0
8	C1240C8CR	10.82	C	6.50	5.00	4.06	52.0
9	C1240C9CR	11.88	C	6.50	5.00	4.06	61.0
10	C1240C10CR	13.15	C	6.50	5.00	4.06	69.0
11	C1240C11CR	14.42	C	6.50	5.00	4.06	78.0
12	C1240C12CR	15.70	C	7.00	6.00	4.56	96.0
13	C1240C13CR	16.98	C	7.00	6.00	4.56	102.0
14	C1240C14CR	18.26	C	7.00	6.00	4.56	112.0
15	C1240C15CR	19.54	C	7.00	6.00	4.56	122.0
16	C1240C16CR	20.82	C	8.00	6.25	5.31	140.0
17	C1240C17CR	22.11	C	8.00	6.25	5.31	142.0
18	C1240C18CR	23.40	C	8.00	6.25	5.31	161.0
19	C1240C19CR	24.68	C	8.00	6.25	5.31	175.0
21	C1240C21CR	27.26	C	8.00	6.25	5.31	210.0
22	C1240C22CR	28.55	C	8.00	6.25	5.31	218.0
24	C1240C24CR	31.12	C	8.00	6.25	5.31	240.0
25	C1240C25CR	33.42	C	9.00	6.25	6.06	250.0
28	C1240C28CR	36.29	C	9.00	6.25	6.06	310.0
29	C1240C29CR	37.58	C	9.00	6.75	6.06	330.0
30	C1240C30CR	38.87	C	10.00	6.75	7.13	346.0
32	C1240C32CR	41.45	C	10.00	6.75	7.13	378.0
34	C1240C34CR	44.03	C	10.00	6.75	7.13	402.0
37	C1240C37CR	47.90	C	11.00	7.75	7.13	471.0

4050 CAST TOOTH SPROCKETS — PITCH 12.000 CHILLED RIM

FOR CHAINS NO.: RS4850, SS1265R

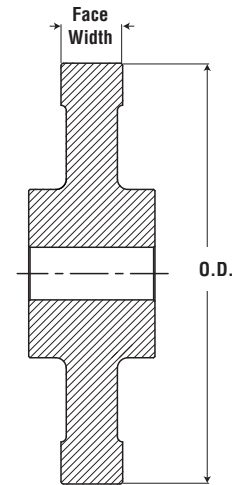
Tooth Face at Pitch Line: 2.000 — Roller Diameter: 3.000

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (lb)
8	C4850C8CR	31.43	C	10.00	6.00	6.00	220.0

NOTE: Weights and Dimensions are approximate. Please consult *Martin* for max hub information. All Cast Sprockets available as Split Sprockets.

CHAINSAVER rims available on request.

HEAT TREAT available upon request.



Martin traction wheels are offered as either solid construction or as a solid hub with segmental teeth. Segmental traction wheels can greatly reduce downtime since you do not have to disassemble the components around it. Traction wheels are in bucket elevators and can withstand abrasive materials.

Cast Traction Wheels and Drum Flanged Traction Wheels

Chain: 78, 88

F = 0.94

Part Number	Outside Diameter	Face Width	Weight Each (lb)
C10.0TW	10.00	0.94	30.0
C12.0TW	12.00	0.94	45.0
C12.5TW	12.50	0.94	50.0
C13.25TW	13.25	0.94	58.0
C14.0TW	14.00	0.94	62.0
C15.0TW	15.00	0.94	65.0
C15.5TW	15.50	0.94	68.0
C16.0TW	16.00	0.94	70.0
C18.0TW	18.00	0.94	75.0
C19.0TW	19.00	0.94	80.0
C20.0TW	20.00	0.94	85.0

Chain: H102

F = 6.25

Part Number	Outside Diameter	Face Width	Weight Each (lb)
C8.5TW	8.50	6.25	76.0
C10.0TW	10.00	6.25	126.0
C11.5TW	11.50	6.25	185.0
C13.0TW	13.00	6.25	144.0
C14.63TW	14.63	6.25	153.0
C16.25TW	16.25	6.25	162.0
C17.75TW	17.75	6.25	190.0
C19.38TW	19.38	6.25	215.0

Chain: C102B, C110, C102-1/2

F = 1.88

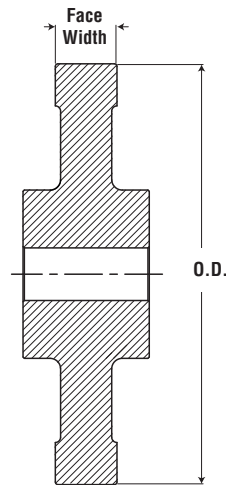
Part Number	Outside Diameter	Face Width	Weight Each (lb)
C12.0TW	12.00	1.88	50.0
C13.5TW	13.50	1.88	60.0
C14.0TW	14.00	1.88	63.0
C16.63TW	14.63	1.88	68.0
C15.75TW	15.75	1.88	78.0
C16.75TW	16.75	1.88	89.0
C17.0TW	17.00	1.88	92.0
C18.0TW	18.00	1.88	100.0
C19.75TW	19.75	1.88	108.0
C21.0TW	21.00	1.88	117.0
C22.0TW	22.00	1.88	127.0
C22.75TW	22.75	1.88	135.0
C23.0TW	23.00	1.88	139.0
C23.75TW	23.75	1.88	143.0
C27.63TW	27.63	1.88	160.0
C29.63TW	29.63	1.88	166.0
C33.0TW	33.00	1.88	175.0

Chain: H82, C131, 823, 4103, S131, 103, 730

F = 1.13

Part Number	Outside Diameter	Face Width	Weight Each (lb)
C7.0TW	7.00	1.13	25.0
C9.63TW	9.63	1.13	38.0
C14.63TW	14.63	1.13	49.0
C16.0TW	16.00	1.13	60.0
C17.0TW	17.00	1.13	70.0
C18.0TW	18.00	1.13	75.0
C20.0TW	20.00	1.13	90.0
C22.0TW	22.00	1.13	115.0
C22.5TW	22.50	1.13	125.0
C24.0TW	24.00	1.13	135.0
C29.38TW	29.38	1.13	170.0

Traction Wheels



Chain: H104

F = 4.00

Part Number	Outside Diameter	Face Width	Drum Width	Weight Each (lb)
C10.5TW	10.50	4.00	12.00	125.0
C12.38TW	12.38	4.00	12.00	145.0
C14.0TW	14.00	4.00	12.00	170.0
C16.0TW	16.00	4.00	12.00	205.0
C17.75TW	17.75	4.00	12.00	250.0
C19.75TW	19.75	4.00	12.00	305.0
C20.0TW	20.03	4.00	12.00	345.0

Chain: H116

F = 13.00

Part Number	Outside Diameter	Face Width	Drum Width	Weight Each (lb)
C16.88TW	16.88	13.0	20.5	395.0
C19.0TW	19.00	13.0	20.5	485.0
C21.75TW	21.75	13.0	20.5	550.0

Chain: H110

F = 8.88

Part Number	Outside Diameter	Face Width	Drum Width	Weight Each (lb)
C10.25TW	10.25	8.88	16.38	175.0
C14.0TW	14.00	8.88	16.38	250.0
C15.0TW	15.88	8.88	16.38	290.0
C17.75TW	17.75	8.88	16.38	335.0
C19.63TW	19.63	8.88	16.38	365.0

Chain: H118

F = 13.00

Part Number	Outside Diameter	Face Width	Weight Each (lb)
C13.88TW	13.88	13.00	495.0
C16.5TW	16.50	13.00	560.0

Chain: C111

F = 2.25

Part Number	Outside Diameter	Face Width	Weight Each (lb)
C9.5TW	9.50	2.25	50.0
C14.5TW	14.56	2.25	85.0
C15.5TW	15.50	2.25	91.0
C18.0TW	18.00	2.25	105.0
C20.0TW	20.00	2.25	135.0
C22.0TW	22.00	2.25	143.0
C23.0TW	23.00	2.25	146.0
C23.75TW	23.75	2.25	149.0
C26.0TW	26.00	2.25	165.0
C29.5TW	29.50	2.25	198.0
C30.75TW	30.75	2.25	210.0

Chain: C132

F = 2.75

Part Number	Outside Diameter	Face Width	Drum Width	Weight Each (lb)
C13.0TW	13.00	2.75		120.0
C13.75TW	13.75	2.75		124.0
C16.0TW	16.00	2.75		128.0
C16.25TW	16.25	2.75	14.00	510.0
C17.0TW	17.00	2.75		138.0
C18.0TW	18.00	2.75		147.0
C18.25TW	18.25	2.75	14.00	570.0
C20.25TW	20.25	2.75	14.00	620.0
C21.63TW	21.63	2.75		186.0
C22.0TW	22.00	2.75		190.0
C24.0TW	24.00	2.75		205.0
C26.19TW	26.19	2.75		210.0
C27.75TW	27.75	2.75		225.0
C30.0TW	30.00	2.75		280.0

Chain: H112

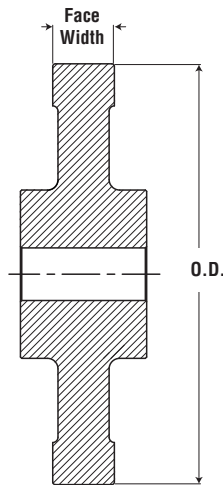
F = 9.00

Part Number	Outside Diameter	Face Width	Drum Width	Weight Each (lb)
C16.75TW	16.75	9.00	16.5	200.0
C19.25TW	19.25	9.00	16.5	230.0

Unit Number H480

F = 11.13

Part Number	Outside Diameter	Face Width	Drum Width	Weight Each (lb)
C13.88TW	13.88	11.13	22.00	440.0
C16.25TW	16.25	11.13	22.00	510.0
C18.75TW	18.75	11.13	22.00	540.0
C21.13TW	21.13	11.13	22.00	600.0
C23.75TW	23.75	11.13	22.00	630.0



Chain: SS40, 825, 830

F = 1.25

Part Number	Outside Diameter	Face Width	Weight Each (lb)
C10.5TW	10.50	1.25	45.0
C14.0TW	14.00	1.25	60.0
C15.5TW	15.50	1.25	68.0
C16.0TW	16.00	1.25	72.0
C17.0TW	17.00	1.25	79.0
C18.25TW	18.25	1.25	86.0
C20.0TW	20.00	1.25	95.0
C22.0TW	22.00	1.25	105.0
C24.0TW	24.00	1.25	120.0
C27.75TW	27.75	1.25	140.0
C31.0TW	31.00	1.25	160.0

Chain: S856

F = 2.63

Part Number	Outside Diameter	Face Width	Weight Each (lb)
C20.0TW	20.00	2.63	170.0
C21.5TW	21.50	2.63	187.0
C26.0TW	26.00	2.63	200.0
C27.75TW	27.75	2.63	218.0
C29.5TW	29.50	2.63	225.0
C30.0TW	30.00	2.63	236.0

Chain: 844, 844R

F = 2.13

Part Number	Outside Diameter	Face Width	Weight Each (lb)
C12.0TW	12.00	2.13	65.0
C16.0TW	16.00	2.13	90.0
C19.75TW	19.75	2.13	109.0
C22.25TW	22.25	2.13	130.0
C23.75TW	23.75	2.13	148.0
C27.75TW	27.75	2.13	172.0
C29.0TW	29.00	2.13	190.0

Chain: 955

F = 0.69

Part Number	Outside Diameter	Face Width	Weight Each (lb)
C08.0TW	8.00	0.69	24.0
C18.75TW	18.75	0.69	65.0

Chain: 720

F = 1.00

Part Number	Outside Diameter	Face Width	Weight Each (lb)
C15.0TW	15.00	1.00	62.0
C15.5TW	15.50	1.00	65.0
C18.25TW	18.25	1.00	85.0

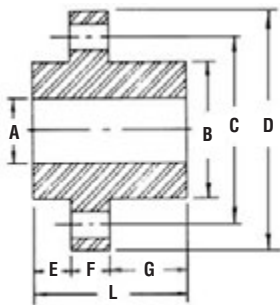
Segmental Hubs



Segmental sprockets greatly reduce the labor costs as well as the downtime associated with replacing worn standard type sprockets. Worn segments can be replaced by simply disassembling the unit, eliminating the need to remove shaft and/or bearing assemblies as well as the need to re-align the hub.

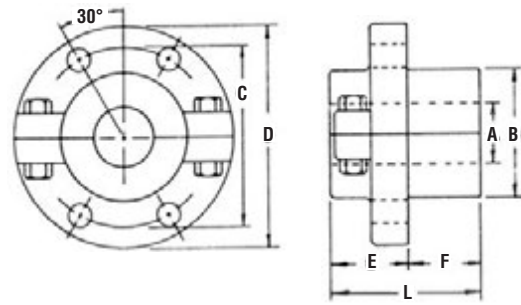
Solid Hub Bodies

Solid hub bodies are recommended for new installations. They are available precisely machined of high quality cast iron or USA grade alloy steel.



Split Hub Bodies

Split hubs can be easily installed on existing installations without the need to remove the shaft, bearings or the chain. They are available precisely machined of high quality cast iron or USA grade alloy steel.



Steel Solid Hub

Part Number	Outside Diameter	Bore Range		Length Thru Bore Range	
		Minimum	Maximum	Minimum	Maximum
MUS10	12.00	1.94	4.94	4.250	6.00
MUS12	14.50	1.94	5.94	4.250	6.00
MUS16	18.50	1.94	8.44	4.250	8.00
MUS20	22.50	2.44	9.94	5.000	9.50
MUS25	27.50	1.94	8.44	5.500	11.00
MUS35	38.00	1.94	8.44	5.500	11.00

Cast Solid Hub

Part Number	Outside Diameter	Bore Range		Length Thru Bore Range	
		Minimum	Maximum	Minimum	Maximum
MUS10C	12.00	1.94	4.44	4.250	6.00
MUS12C	14.50	1.94	4.94	4.250	6.00
MUS16C	18.50	1.94	6.94	4.250	8.00
MUS20C	22.50	2.44	6.94	5.000	9.50

Steel Split Hub

Part Number	Outside Diameter	Bore Range		Length Thru Bore Range	
		Minimum	Maximum	Minimum	Maximum
MUS12S	14.50	1.94	4.94	6.750	7.75
MUS16S	18.50	1.94	5.94	6.750	7.75
MUS20S	22.50	1.94	8.94	6.750	8.75
MUS25S	27.50	1.94	7.94	6.750	8.75
MUS35S	38.00	1.94	8.94	6.750	8.75

Cast Split Hub

Part Number	Outside Diameter	Bore Range		Length Thru Bore Range	
		Minimum	Maximum	Minimum	Maximum
MUS10SC	12.00	1.94	2.44	5.625	5.625
MUS12SC	14.50	1.94	3.94	5.625	7.00
MUS16SC	18.50	1.94	4.94	6.500	8.25
MUS20SC	22.50	2.44	7.44	6.500	11.12

★ Maximum bores shown are maximum bores with standard keyseat and setscrew.

Segmental Rim Sprockets and Traction Wheels

Cast Rims

Each traction wheel rim and sprocket rim is induction hardened to the highest practical hardness around the entire circumference. The hardness depth is controlled to give the longest wear life, yet leaving the interior tough and ductile - perfect qualities for absorbing the impact and shock loads encountered in elevator - conveyor service.

Segmental sprocket rims can be reversed (back side of tooth becomes the working face), in order to maximize wear.

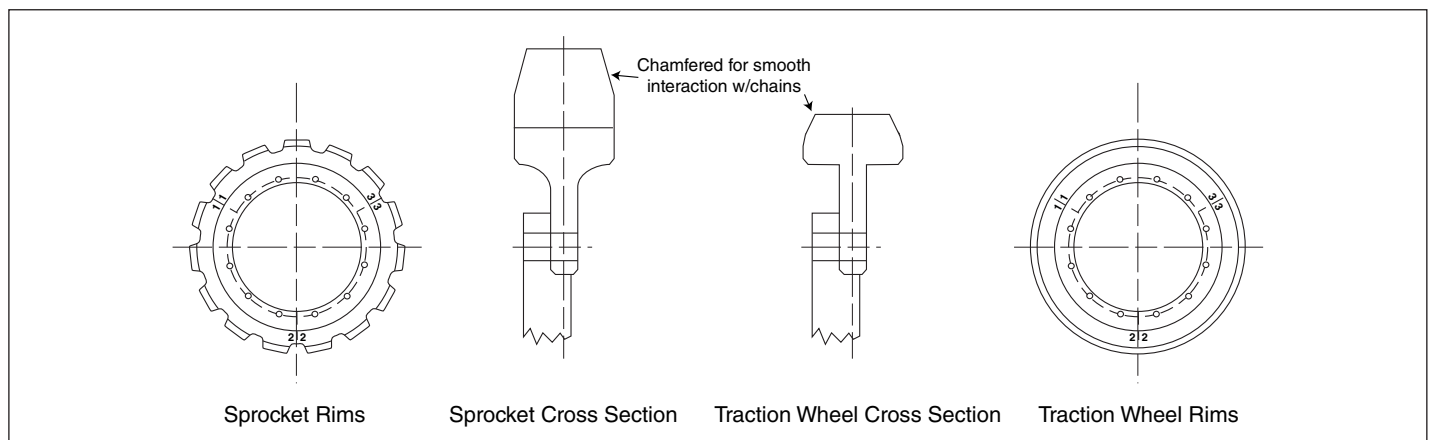
Segmental traction wheel rims can be easily installed, no need to even remove the chain in order to replace worn out rims. No burning or cutting is necessary.

The "T" head traction wheel design moves the center of the chain load more closely over the body flange, thus reducing the possibility of hub fatigue problems.

Segmental rim traction wheels are split with cuts in the rims that are made diagonally. These diagonal cuts eliminate the possibility of the segments spalling or chipping at the line of split as a result of chain bushing or barrel impact.

The sides of the segmental traction wheel and sprocket rims are chamfered to allow the chain to "enter" and "leave" smoothly without damaging the chain components.

All rims are furnished with high strength UNC thread nuts and bolts as standard.



Available Cast Traction Wheel Rims

Rex Chain No.	Link-Belt Chain No.	No. of Teeth	Use Body No.*	Pitch Dia.	Wt. Each Lbs.	Pitch Dia.
S110 A102B S102B S102-1/2 S102-1/2	SBS110 C102B SBS102B C102-1/2 SBS102-1/2	24	16	45.97	1.75	115
ES111 A111	SBX856 SBX2857	22 24 26 30	16 16 20 20	33.45 34.47 39.49 45.54	2.25	110 130 140 165
RS856 ER857 ER956	SBX856 SBX2857	20 22 24 26 28 30	12 16 16 20 20 20	38.36 42.16 45.97 49.78 53.89 57.40	2.75	90 115 145 155 170 185
ER859 ER864	SBX2856 SBX2864	24 26 30 36 42 49	16 20 20 20 35 35	45.97 49.78 57.40 68.84 80.29 93.65	3.50	165 185 215 265 300 375

Keyways and Setscrews



Keyseating, Keys and Setscrews

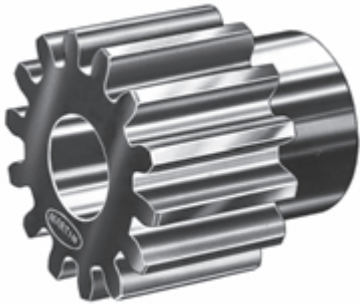
All *Martin* bored-to-size Cast Iron Sprockets include a keyway and two setscrews. All parts are shipped less key stock. Keyway and setscrew sizes are supplied according to the table below, unless specified. Our standard setscrew locations are one over the keyway and one at 90 degrees.

Standard Keyways and Setscrews

Bore (Inches)	Keyway Width × Depth	Diameter of Screw	Bore (Inches)	Keyway Width × Depth	Diameter of Screw
0.50 to 0.56	0.13 × 0.06	#10	2.31 to 2.75	0.63 × 0.31	0.63
0.63 to 0.88	0.19 × 0.09	0.25	2.81 to 3.25	0.75 × 0.38	0.63
0.94 to 1.25	0.25 × 0.13	0.31	3.31 to 3.75	0.88 × 0.44	0.75
1.31 to 1.38	0.31 × 0.16	0.38	3.81 to 4.50	1.00 × 0.50	0.75
1.44 to 1.75	0.38 × 0.19	0.38	4.56 to 5.50	1.25 × 0.63	0.88
1.81 to 2.25	0.50 × 0.25	0.50	5.56 to 6.50	1.50 × 0.75	1.00

GEARS

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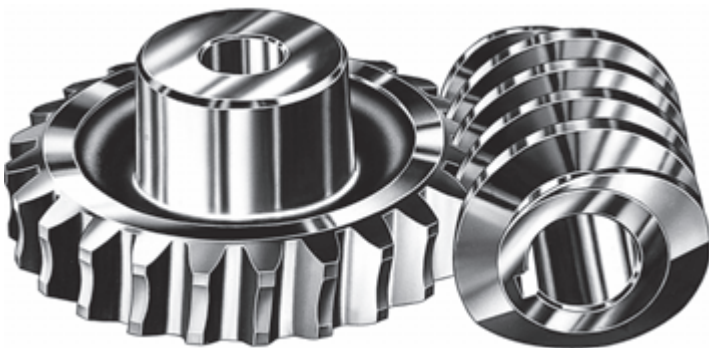
Spur Gears



Bevel Gears



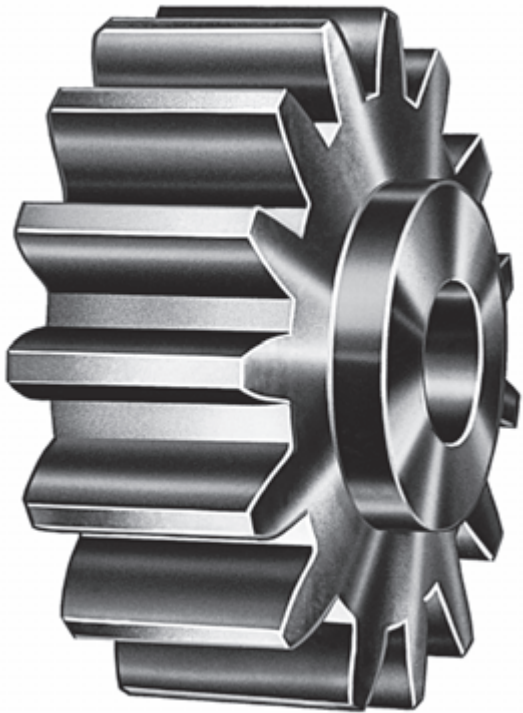
Miter Gears



Worm and Worm Gears



Gear Rack



Stock Gears Numbering System

Letters (Prefix) Indicate Material and Type Gear.

Letters (Suffix) Indicate Hardened, Number of Threads, Direction of Rotation and KW and SS.

Numbers Indicate Pitch, Number of Teeth, and Ratio (Suffix).



Spur Gears

S=Steel

TS=Steel 20°

C=Cast

TC=Cast 20°

H=Hardened Teeth

NM=Non-Metallic

Note: Pressure Angle is Shown as a Suffix to Part Number of All Our Spur Gears.

Examples

S620-14½° (Steel 6P 20T-14½°PA)

TS620-20° (Steel 6P 20T-20°PA)

C660-14½° (Cast 6P 60T-14½°PA)

TC660-20° (Cast 6P 60T-20°PA)

S620H-14½° (Steel 6P 20T-Hardened 14½°PA)

NM620-14½° (Non-Metallic 6P 20T-14½°PA)



Rack

R=Rack — Steel

RA=Rack — Steel Heavy Backing

TR=Rack — Steel 20° Heavy Backing

R20=Rack — Steel 20° Wide Face

Examples

R-6X2 (14½° STD Backing 6PX2' Long)

RA-6X4 (14½° Heavy Backing 6PX4' Long)

TR-6X6 (20° STD Width 6PX6 Long)

R20-6X6 (20° Wide Face 6PX6' Long)



Bevel Gears

B=Bevel — Cast Iron Gears

B=Bevel — Steel Pinions

BS=Bevel — Steel Gears

BS=Bevel — Steel Pinions

Note: B Steel Pinions May Run With BS Gears of Same Ratio

Examples

B1040-2 (Cast 10P 40T 2:1 Ratio)

B1020-2 (Steel 10P 20T 2:1 Ratio)

BS1040-2 (Steel 10P 40T 2:1 Ratio)

BS1020-2 (Steel 10P 20T 2:1 Ratio)



Miter Gears

M=Miter — Steel Gears

A or B=Larger Bore (Suffix)

HM=Miter-Hardened Teeth

K=KW & SS

Examples

M824 (Steel 8P 24T)

M824A (Steel 8P 24T Larger Bore)

M2424BR (Brass 24P 24T)

HM1020 (Steel-Hardened Teeth 10P 20T)

HMK1020 (Steel-Hardened 10P 20T With KW & SS)



Worm

W=Worm — Steel

WH=Worm — Steel With Hub Projection

WG=Worm — Steel Hardened Ground Threads

WHG=Worm — Steel Hardened Ground Threads With Hub Projection

L=(Prefix) Longer Face

D or Q=(Suffix) Double or Quadruple Thread

R=Right Hand

Examples

W6R (Steel 6P Right Hand)

WH6R (Steel with Hub Projection 6P Right Hand)

WG6R (Steel-Hardened Ground Threads 6P Right Hand)

WHG6R (Steel with Hub Projection Hardened Ground Threads 6P Right Hand)

LW6R (Steel Long Face 6P Right Hand)

W6DR (Steel 6P Double Thread Right Hand)



Worm Gears

W=Worm Gear — Cast Iron

WB=Worm Gear — Bronze

D or Q=Double or Quadruple Thread (Suffix)

R=Right Hand (Suffix)

Examples

W660R (Cast Iron 6P 60T Right Hand)

WB660R (Bronze 6P 60T Right Hand)

W660DR (Cast Iron 6P 60T Double Thread Right Hand)

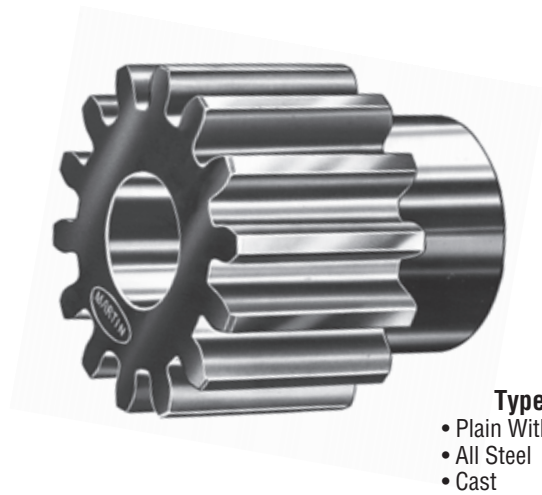
Martin Stock Spur Gears are available in five different styles. Steel Gears are furnished in plain style and plain style with hub. Cast gears are furnished, plain with hub, web with lightening holes, and spoke. Cast gears are machined on all operating surfaces. *Martin* cast gears are cast with larger hub to provide extra strength and to allow for larger bores.



Type A
 • Plain Without Hubs
 • All Steel



Type B₁
 • Web
 • All Steel
 • Cast



Type B
 • Plain With Hubs
 • All Steel
 • Cast



Type B₂
 • Web With Lighten Holes
 • All Steel
 • Cast



Type B₃
 • Spoke Style
 • Cast

3 DP 3" Face

Steel Stock Spur Gears 14½° Pressure Angle



Type A
Plain Without Hub



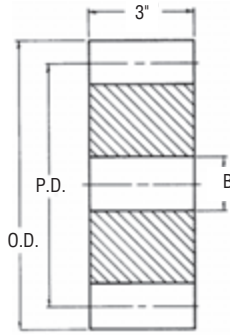
Type B
Plain With Hub



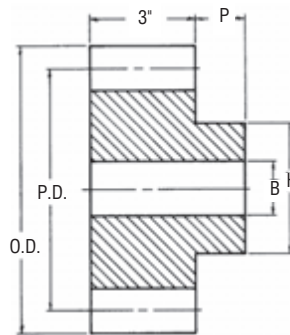
Type B₁
Web



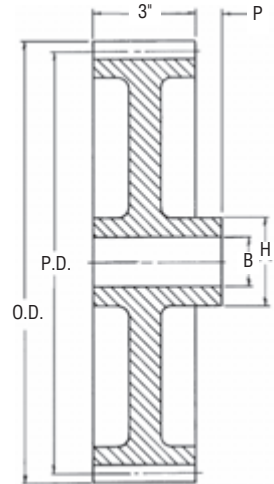
Type B₂
Web With
Lighten Holes



Type A



Type B



Type B₁, B₂

Steel

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max. *	Diameter	Proj.	
11	S311	14½	4.000¥†	4.666	A	1⅙	2	—	—	12.0
12	S312	14½	4.000¥	4.666	A	1⅙	2	—	—	11.0
13	S313	14½	4.333	5.000	A	1⅙	2¼	—	—	10.7
14	S314	14½	4.667	5.333	A	1⅙	2½	—	—	12.8
15	S315	14½	5.000	5.666	A	1⅙	2¾	—	—	14.8
16	S316	14½	5.333	6.000	A	1⅙	2⅞	—	—	17.0
18	S318	14½	6.000	6.666	A	1⅙	3¼	—	—	22.0
20	S320	14½	6.667	7.333	A	1⅙	3½	—	—	27.4
21	S321	14½	7.000	7.666	A	1⅙	3¾	—	—	30.7
24	S324	14½	8.000	8.666	B	1⅙	3¼	5½	1¼	48.2
30	S330	14½	10.000	10.666	B	1⅙	3¾	6¼	1¼	74.5
36	S336	14½	12.000	12.666	B	1⅙	4¼	6½	1¼	114.0
42	S342	14½	14.000	14.666	B1	1⅙	4¾	6½	1¼	106.0
48	S348	14½	16.000	16.666	B1	1⅙	4¾	6½	1¼	120.0
54	S354	14½	18.000	18.666	B2	1⅙	4¾	6½	1¼	134.0
60	S360	14½	20.000	20.666	B2	1⅙	4¾	6½	1¼	150.0
72	S372	14½	24.000	24.666	B2	1⅙	4½	7	1¼	180.0
84	S384	14½	28.000	28.666	B2	1⅙	4½	7	1¼	215.0
96	S396	14½	32.000	32.666	B2	1⅙	4½	7	1¼	264.0
108	S3108	14½	36.000	36.666	B2	1⅙	4½	7	1¼	305.0
120	S3120	14½	40.000	40.666	B2	1⅙	5	7½	1¼	367.0

* Recommended Maximum Bore With Keyway and Setscrew.

† Enlarged Pitch Diameter with Special Tooth Form.

¥ 4" Face.

14½ P.A. Gears Will Not Operate With 20° P.A.



Cast Iron Stock Spur Gears

14½° Pressure Angle

3 DP 3" Face



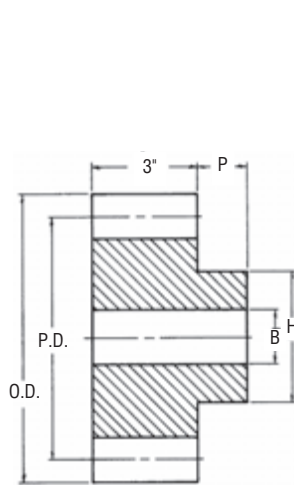
Type B
Plain With Hub



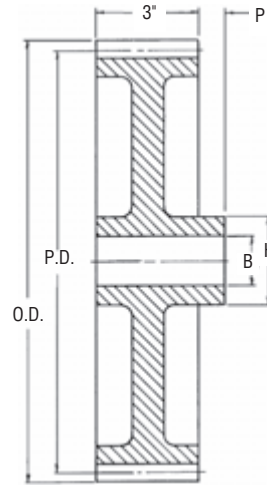
Type B₂
Web With
Lighten Holes



Type B₃
Spoke Style



Type B



Type B₂, B₃

Cast — Style “B”

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max. *	Diameter	Proj.	
24	C324	14½	8.000	8.666	B	1½/16	2½/16	4½	1½	40.4
28	C328	14½	9.333	10.000	B	1½/16	3½/16	5½	1½	54.2
30	C330	14½	10.000	10.666	B	1½/16	3½/16	5½	1½	57.1
32	C332	14½	10.667	11.333	B	1½/16	3½/16	5½	1½	62.4
36	C336	14½	12.000	12.666	B ₂	1½/16	3¼	5½	1½	71.3
40	C340	14½	13.333	14.000	B ₂	1½/16	3¼	5½	1½	75.9
42	C342	14½	14.000	14.666	B ₂	1½/16	3¼	5½	1½	79.5
45	C345	14½	15.000	15.666	B ₂	1½/16	3¼	5½	1½	85.0
48	C348	14½	16.000	16.666	B ₃	1½/16	3¼	5½	1½	92.9
54	C354	14½	18.000	18.666	B ₃	1½/16	3¼	5½	1½	104.0
60	C360	14½	20.000	20.666	B ₃	1½/16	3¼	5½	1½	115.0
72	C372	14½	24.000	24.666	B ₃	1½/16	3½/16	6	1½	153.0
75	C375	14½	25.000	25.666	B ₃	1½/16	3½/16	6	1½	155.0
84	C384	14½	28.000	28.666	B ₃	1½/16	3½/16	6	1½	178.0
90	C390	14½	30.000	30.666	B ₃	1½/16	3½/16	6	1½	185.0
96	C396	14½	32.000	32.666	B ₃	1½/16	3½/16	6	1½	205.0
105	C3105	14½	35.000	35.666	B ₃	1½/16	3½/16	6	1½	216.0
108	C3108	14½	36.000	36.666	B ₃	1½/16	3½/16	6	1½	228.0
120	C3120	14½	40.000	40.666	B ₃	1½/16	4½	6½	1½	226.0

* Recommended Maximum Bore With Keyway and Setscrew.

14½° P.A. Gears Will Not Operate With 20° P.A.

4 DP 2" Face

Steel Stock Spur Gears 14½° Pressure Angle



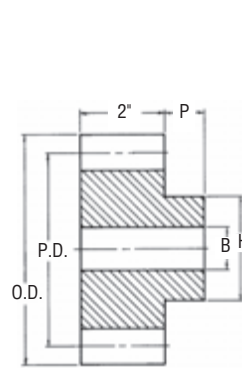
Type B
Plain With Hub



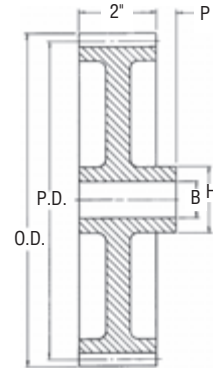
Type B₁
Web



Type B₂
Web With
Lighten Holes



Type B



Type B₁, B₂

Steel

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max. *	Diameter	Proj.	
11	S411	14½	3.000†	3.500	B	1½	1⅞	2¼	¾	4.0
12	S412	14½	3.000	3.500	B	1½	1⅞	2¼	¾	3.9
13	S413	14½	3.250	3.750	B	1½	1⅞	2¼	¾	4.6
14	S414	14½	3.500	4.000	B	1½	1⅞	2¾	¾	5.7
15	S415	14½	3.750	4.250	B	1½	1¾	3	¾	6.8
16	S416	14½	4.000	4.500	B	1½	1¾	3¼	¾	8.0
17	S417	14½	4.250	4.750	B	1½	2	3½	¾	9.2
18	S418	14½	4.500	5.000	B	1½	2¼	3¾	¾	10.4
19	S419	14½	4.750	5.250	B	1½	2¼	4	¾	10.5
20	S420	14½	5.000	5.500	B	1½	2½	4¼	¾	13.4
21	S421	14½	5.250	5.750	B	1½	2½	4½	¾	14.9
22	S422	14½	5.500	6.000	B	1½	2½	4¾	¾	16.5
24	S424	14½	6.000	6.500	B	1½	2¾	4¾	1½	22.8
26	S426	14½	6.500	7.000	B	1½	2¾	4¾	1½	24.8
28	S428	14½	7.000	7.500	B	1½	2¾	4¾	1½	27.8
30	S430	14½	7.500	8.000	B	1½	2¾	4¾	1½	31.0
32	S432	14½	8.000	8.500	B	1½	2¾	4¾	1½	34.4
36	S436	14½	9.000	9.500	B	1½	2¾	4¾	1½	41.7
40	S440	14½	10.000	10.500	B	1½	3½	5½	1½	51.8
42	S442	14½	10.500	11.000	B	1½	3½	5½	1½	56.0
44	S444	14½	11.000	11.500	B	1½	3½	5½	1½	60.8
48	S448	14½	12.000	12.500	B	1½	3½	5½	1½	70.8
54	S454	14½	13.500	14.000	B ₁	1½	3	5	1½	57.4
56	S456	14½	14.000	14.500	B ₁	1½	3	5	1½	59.9
60	S460	14½	15.000	15.500	B ₂	1½	3	5	1½	62.8
64	S464	14½	16.000	16.500	B ₂	1½	3	5	1½	66.2
72	S472	14½	18.000	18.500	B ₂	1½	3¼	5½	1½	82.9
80	S480	14½	20.000	20.500	B ₂	1½	3¼	5½	1½	95.0
84	S484	14½	21.000	21.500	B ₂	1½	3¼	5½	1½	92.0
88	S488	14½	22.000	22.500	B ₂	1½	3¼	6½	1½	95.8
96	S496	14½	24.000	24.500	B ₂	1½	3¼	6½	1½	124.0
120	S4120	14½	30.000	30.500	B ₂	1½	3½	6	1½	155.0
144	S4144	14½	36.000	36.500	B ₂	1½	4	6½	1½	208.0

* Recommended Maximum Bore With Keyway and Set Screw.
† Enlarged Pitch Diameter with Special Tooth Form.

14½° P.A. Gears Will Not Operate With 20° P.A.



Cast Iron Stock Spur Gears

14½° Pressure Angle

4 DP 2" Face



Type B
Plain With Hub



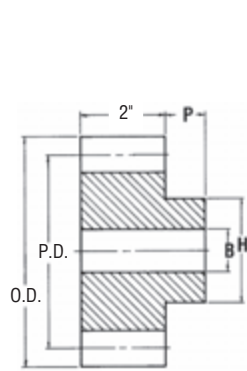
Type B₁
Web



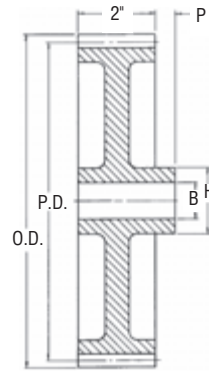
Type B₂
Web With
Lighten Holes



Type B₃
Spoke Style



Type B



Type B₁, B₂, B₃

Cast — Style “B”

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
24	C424	14½	6.000	6.500	B	1½	2½	3½	1½	17.0 v
28	C428	14½	7.000	7.500	B ₁	1½	2½	3½	1½	20.2
30	C430	14½	7.500	8.000	B ₁	1½	2½	3½	1½	21.1
32	C432	14½	8.000	8.500	B ₁	1½	2½	3½	1½	23.2
36	C436	14½	9.000	9.500	B ₂	1½	2½	3¾	1½	30.5
40	C440	14½	10.000	10.500	B ₂	1½	2½	4	1½	26.4
42	C442	14½	10.500	11.000	B ₂	1½	2½	4	1½	33.9
44	C444	14½	11.000	11.500	B ₂	1½	2½	4	1½	32.0
48	C448	14½	12.000	12.500	B ₃	1½	2½	4	1½	38.4
52	C452	14½	13.000	13.500	B ₃	1½	2½	4	1½	42.5
54	C454	14½	13.500	14.000	B ₃	1½	2½	4	1½	44.7
56	C456	14½	14.000	14.500	B ₃	1½	2½	4	1½	46.7
60	C460	14½	15.000	15.500	B ₃	1½	2½	4	1½	49.5
64	C464	14½	16.000	16.500	B ₃	1½	2½	4	1½	54.5
68	C468	14½	17.000	17.500	B ₃	1½	2½	4	1½	56.0
72	C472	14½	18.000	18.500	B ₃	1½	2½ ¹ / ₆	4½	1½	63.0
80	C480	14½	20.000	20.500	B ₃	1½	2½ ¹ / ₆	4½	1½	72.0
84	C484	14½	21.000	21.500	B ₃	1½	2½ ¹ / ₆	4½	1½	73.0
88	C488	14½	22.000	22.500	B ₃	1½	2½ ¹ / ₆	4½	1½	75.0
96	C496	14½	24.000	24.500	B ₃	1½	2½ ¹ / ₆	4½	1½	86.0
100	C4100	14½	25.000	25.500	B ₃	1½	2½ ¹ / ₆	4½	1½	91.0
104	C4104	14½	26.000	26.500	B ₃	1½	2½ ¹ / ₆	4½	1½	105.0
112	C4112	14½	28.000	28.500	B ₃	1½	3½	5	1½	108.0
120	C4120	14½	30.000	30.500	B ₃	1½	3½	5	1½	115.0
132	C4132	14½	33.000	33.500	B ₃	1½	3½	5	1½	129.0
144	C4144	14½	36.000	36.500	B ₃	1½	3¾	5½	1½	140.0

* Recommended Maximum Bore With Keyway and Set Screw.

14½° P.A. Gears Will Not Operate With 20° P.A.

5 DP

1 3/4" Face

Steel Stock Spur Gears

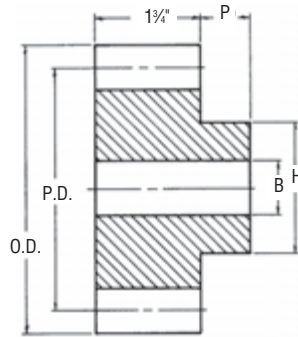
14 1/2° Pressure Angle



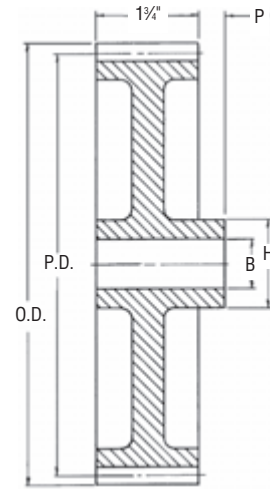
Type B
Plain With Hub



Type B₂
Web With Lighten Holes



Type B



Type B₂

Steel

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max. *	Diameter	Proj.	
11	S511	14 1/2	2.400†	2.800	B	1 1/16	1 1/16	1 7/32	7/8	2.0
12	S512	14 1/2	2.400	2.800	B	1 1/16	1 1/16	1 7/32	7/8	2.0
13	S513	14 1/2	2.600	3.000	B	1 1/16	1 1/4	2	7/8	2.6
14	S514	14 1/2	2.800	3.200	B	1 1/16	1 1/16	2 3/16	7/8	3.1
15	S515	14 1/2	3.000	3.400	B	1 1/16	1 1/16	2 1/2	7/8	3.7
16	S516	14 1/2	3.200	3.600	B	1 1/16	1 1/2	2 7/32	7/8	4.5
17	S517	14 1/2	3.400	3.800	B	1 1/16	1 5/16	2 7/8	7/8	5.2
18	S518	14 1/2	3.600	4.000	B	1 1/16	1 1/2	3	7/8	5.9
19	S519	14 1/2	3.800	4.200	B	1 1/16	2 1/8	3 1/4	7/8	6.7
20	S520	14 1/2	4.000	4.400	B	1 1/16	2 1/4	3 3/8	7/8	7.5
21	S521	14 1/2	4.200	4.600	B	1 1/16	2 1/4	3 3/8	7/8	8.1
22	S522	14 1/2	4.400	4.800	B	1 1/16	2 1/4	3 3/8	7/8	8.8
23	S523	14 1/2	4.600	5.000	B	1 1/16	2 1/4	3 3/8	7/8	9.5
24	S524	14 1/2	4.800	5.200	B	1 1/16	2 1/4	3 3/8	1 1/4	11.0
25	S525	14 1/2	5.000	5.400	B	1 1/16	2 1/4	3 3/8	1 1/4	11.8
26	S526	14 1/2	5.200	5.600	B	1 1/16	2 1/4	3 3/8	1 1/4	12.9
28	S528	14 1/2	5.600	6.000	B	1 1/16	2 1/4	3 3/8	1 1/4	14.3
30	S530	14 1/2	6.000	6.400	B	1 1/16	2 1/4	3 3/8	1 1/4	16.0
35	S535	14 1/2	7.000	7.400	B	1 3/16	2 3/4	4 1/4	1 1/4	22.8
40	S540	14 1/2	8.000	8.400	B	1 3/16	2 3/4	4 1/4	1 1/4	28.5
45	S545	14 1/2	9.000	9.400	B	1 3/16	2 11/16	4 3/8	1 1/4	35.0
50	S550	14 1/2	10.000	10.400	B	1 3/16	2 3/8	4 3/8	1 1/4	43.6
55	S555	14 1/2	11.000	11.400	B	1 3/16	2 3/8	4 3/8	1 1/4	52.0
60	S560	14 1/2	12.000	12.400	B	1 3/16	2 3/8	4 3/8	1 1/4	60.9
70	S570	14 1/2	14.000	14.400	B ₂	1 3/16	3 3/8	5	1 1/4	48.4
80	S580	14 1/2	16.000	16.400	B ₂	1 3/16	3 3/8	5	1 1/4	57.0
90	S590	14 1/2	18.000	18.400	B ₂	1 3/16	3 3/8	5	1 1/4	67.0
100	S5100	14 1/2	20.000	20.400	B ₂	1 3/16	3 3/4	5 1/2	1 1/2	62.0
110	S5110	14 1/2	22.000	22.400	B ₂	1 3/16	3 3/4	5 1/2	1 1/2	87.6
120	S5120	14 1/2	24.000	24.400	B ₂	1 3/16	3 3/4	6 1/2	1 1/2	113.0

* Recommended Maximum Bore With Keyway and Setscrew.
† Enlarged Pitch Diameter with Special Tooth Form.

14 1/2° P.A. Gears Will Not Operate With 20° P.A.



Cast Iron Stock Spur Gears

14½° Pressure Angle

5 DP

1¾" Face



Type B
Plain With Hub



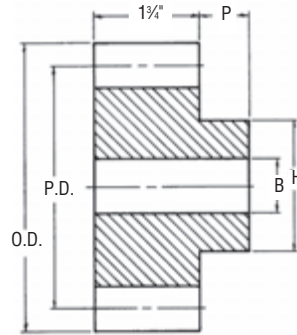
Type B₁
Web



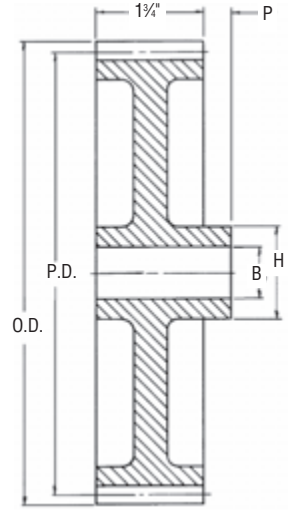
Type B₂
Web With
Lighten Holes



Type B₃
Web With
Spokes



Type B



Type B₁, B₂, B₃

Cast — Style "B"

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max. *	Diameter	Proj.	
24	C524	14½	4.800	5.200	B	1⅙	2⅙	¾	1¼	9.9
25	C525	14½	5.000	5.400	B	1⅙	2⅙	¾	1¼	10.6
28	C528	14½	5.600	6.000	B ₁	1⅙	2⅙	¾	1¼	12.1
30	C530	14½	6.000	6.400	B ₁	1⅙	2⅙	¾	1¼	13.9
32	C532	14½	6.400	6.800	B ₁	1⅙	2⅙	¾	1¼	13.5
35	C535	14½	7.000	7.400	B ₁	1⅙	2⅙	¾	1¼	16.9
36	C536	14½	7.200	7.600	B ₁	1⅙	2⅙	¾	1¼	15.5
40	C540	14½	8.000	8.400	B ₁	1⅙	2⅙	¾	1¼	17.4
45	C545	14½	9.000	9.400	B ₂	1⅙	2⅙	¾	1¼	20.3
48	C548	14½	9.600	10.000	B ₂	1⅙	2⅙	¾	1¼	25.2
50	C550	14½	10.000	10.400	B ₁	1⅙	2⅙	¾	1¼	23.7
54	C554	14½	10.800	11.200	B ₁	1⅙	2⅙	¾	1¼	25.1
55	C555	14½	11.000	11.400	B ₁	1⅙	2⅙	¾	1¼	26.0
60	C560	14½	12.000	12.400	B ₁	1⅙	2⅙	¾	1¼	30.6
64	C564	14½	12.800	13.200	B ₁	1⅙	2⅙	¾	1¼	31.2
66	C566	14½	13.200	13.600	B ₁	1⅙	2⅙	¾	1¼	30.8
70	C570	14½	14.000	14.400	B ₂	1⅙	2⅙	4	1¼	34.5
72	C572	14½	14.400	14.800	B ₁	1⅙	2⅙	4	1¼	35.0
75	C575	14½	15.000	15.400	B ₁	1⅙	2⅙	4	1¼	36.7
80	C580	14½	16.000	16.400	B ₂	1⅙	2⅙	4	1¼	40.8
84	C584	14½	16.800	17.200	B ₂	1⅙	2⅙	4	1¼	40.0
90	C590	14½	18.000	18.400	B ₂	1⅙	2⅙	4	1¼	45.4
96	C596	14½	19.200	19.600	B ₁	1⅙	2⅙	4	1¼	48.6
100	C5100	14½	20.000	20.400	B ₁	1⅙	2⅙	4½	1½	54.4
120	C5120	14½	24.000	24.400	B ₁	1⅙	2⅙	4¾	1½	56.1
130	C5130	14½	26.000	26.400	B ₁	1⅙	2⅙	4¾	1½	70.2

* Recommended maximum bore with keyway and set screw.

Quotes for large quantity discontinued cast iron sizes, contact your nearest *Martin* Facility.

14½° P.A. Gears Will Not Operate With 20° P.A.

6 DP

1½" Face

Steel Stock Spur Gears

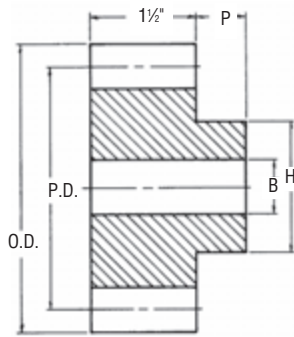
14½° Pressure Angle



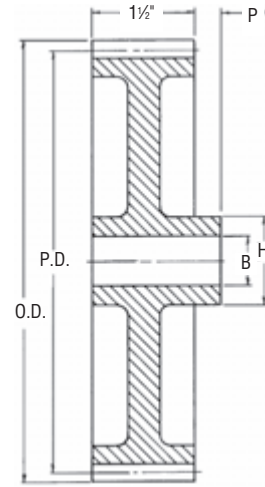
Type B
Plain With Hub



Type B₂
Web With
Lighten Holes



Type B



Type B₂

Steel

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max. *	Diameter	Proj.	
11	S611	14½	2.000†	2.333	B	1	**	1½	¾	1.1
12	S612	14½	2.000	2.333	B	1	**	1½	¾	1.1
14	S614	14½	2.333	2.666	B	1	1⅙	1⅞	¾	1.8
15	S615	14½	2.500	2.833	B	1	1¼	2	¾	2.2
16	S616	14½	2.666	3.000	B	1	1⅙	2½	¾	2.6
18	S618	14½	3.000	3.333	B	1	1½	2½	¾	3.5
20	S620	14½	3.333	3.666	B	1	1½	2⅞	¾	4.6
21	S621	14½	3.500	3.833	B	1	1½	3	¾	5.1
22	S622	14½	3.666	4.000	B	1	1½	3	¾	5.5
24	S624	14½	4.000	4.333	B	1½	1½	3	1	6.5
27	S627	14½	4.500	4.833	B	1½	1½	3	1	6.6
28	S628	14½	4.666	5.000	B	1½	1½	3	1	8.3
30	S630	14½	5.000	5.333	B	1½	2"	3½	1	9.5
32	S632	14½	5.333	5.666	B	1½	2"	3½	1	10.7
33	S633	14½	5.500	5.833	B	1½	2½	3½	1	11.3
36	S636	14½	6.000	6.333	B	1½	2½	3½	1	13.3
39	S639	14½	6.500	6.833	B	1½	2½	4	1	16.6
40	S640	14½	6.666	7.000	B	1½	2½	4	1	17.6
42	S642	14½	7.000	7.333	B	1½	2½	4	1	18.9
45	S645	14½	7.500	7.833	B	1½	2½	4	1	21.3
48	S648	14½	8.000	8.333	B	1½	2½	4½	1	24.3
52	S652	14½	8.666	9.000	B	1½	2½	4½	1	27.9
54	S654	14½	9.000	9.333	B	1½	2½	4½	1	30.4
58	S658	14½	9.666	10.000	B	1½	2½	4½	1	33.9
60	S660	14½	10.000	10.333	B	1½	2½	4½	1¼	34.3
64	S664	14½	10.666	11.000	B	1½	2½	4½	1¼	42.2
66	S666	14½	11.000	11.333	B	1½	2½	4½	1¼	50.0
72	S672	14½	12.000	12.333	B	1½	2⅞	4½	1¼	53.0
84	S684	14½	14.000	14.333	B ₂	1½	2⅞	4½	1¼	40.0
96	S696	14½	16.000	16.333	B ₂	1½	2⅞	5½	1¼	43.8
108	S6108	14½	18.000	18.333	B ₂	1½	2⅞	5½	1¼	53.0
120	S6120	14½	20.000	20.333	B ₂	1½	2⅞	5½	1¼	63.2
132	S6132	14½	22.000	22.333	B ₂	1½	2⅞	5½	1½	68.3
144	S6144	14½	24.000	24.333	B ₂	1½	3½	5	1½	82.7

* Recommended maximum bore with keyway and set screw.
 ** Check application with factory.
 † Enlarged pitch diameter with special tooth form.

14½° P.A. Gears Will Not Operate With 20° P.A.



Cast Iron Stock Spur Gears

14½° Pressure Angle

6 DP 1½" Face



Type B Plain With Hub



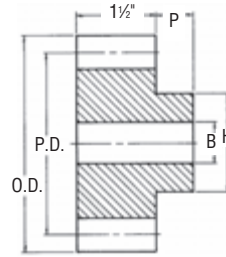
Type B₁ Web



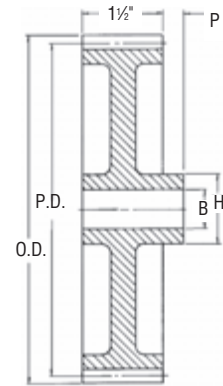
Type B₂
Web With Lighten Holes



Type B₃
Spoke Style



Type B



Type B₁, B₂, B₃

Cast — Style “B”

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max. *	Diameter	Proj.	
• 32	C632	14½	5.333	5.666	B ₁	1½	1½	2½	1	7.2
• 40	C640	14½	6.666	7.000	B ₁	1½	1½	3	1	11.9
• 42	C642	14½	7.000	7.333	B ₁	1½	1½	3	1	13.0
• 48	C648	14½	8.000	8.333	B ₁	1½	1½	3	1	12.1
• 54	C654	14½	9.000	9.333	B ₁	1½	2½	3½	1	14.4
• 60	C660	14½	10.000	10.333	B ₁	1½	2½	3½	1½	17.0
• 64	C664	14½	10.666	11.000	B ₁	1½	2½	3½	1½	18.5
66	C666	14½	11.000	11.333	B ₁	1½	2½	3½	1½	19.0
70	C670	14½	11.666	12.000	B ₁	1½	2½	3½	1½	20.6
72	C672	14½	12.000	12.333	B ₁	1½	2½	3½	1½	23.7
75	C675	14½	12.500	12.833	B ₁	1½	2½	3½	1½	25.4
80	C680	14½	13.333	13.666	B ₁	1½	2½	3½	1½	25.8
84	C684	14½	14.000	14.333	B ₁	1½	2½	3½	1½	25.0
90	C690	14½	15.000	15.333	B ₁	1½	2½	3½	1½	25.8
96	C696	14½	16.000	16.333	B ₁	1½	2½	3½	1½	28.0
108	C6108	14½	18.000	18.333	B ₁	1½	2½	3½	1½	32.0
120	C6120	14½	20.000	20.333	B ₁	1½	2½	3½	1½	34.8
132	C6132	14½	22.000	22.333	B ₁	1½	2½	3½	1½	43.4
144	C6144	14½	24.000	24.333	B ₁	1½	2½	4	1½	45.2
180	C6180	14½	30.000	30.333	B ₁	1½	2½	4	1½	58.3

* Recommended maximum bore with keyway and set screw
• Consult Factory.

Bored-to-Size

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Set Screw	Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Keyway		Diameter	Proj.	
11	S611BS 1	14½	2.000	2.333	B	1	¼ × ¼	(1) 1/4-20 @ 90	1½	¾	1.10
12	S612BS 1	14½	2.000	2.333	B	1	¼ × ¼	(1) 1/4-20 @ 90	1½	¾	1.10
14	S614BS 1	14½	2.333	2.667	B	1	¼ × ¼	(1) 5/16-18 @ 90	1½	¾	1.80
14	S614BS 1-1/8	14½	2.333	2.667	B	1½	¼ × ¼	(1) 5/16-18 @ 90	1½	¾	1.80
15	S615BS 1	14½	2.500	2.833	B	1	¼ × ¼	(1) 5/16-18 @ 90	2	¾	2.20
15	S615BS 1-1/8	14½	2.500	2.833	B	1½	¼ × ¼	(1) 5/16-18 @ 90	2	¾	2.20
15	S615BS 1-3/16	14½	2.500	2.833	B	1½	¼ × ¼	(1) 5/16-18 @ 90	2	¾	2.20
15	S615BS 1-1/4	14½	2.500	2.833	B	1½	¼ × ¼	(1) 5/16-18 @ 90	2	¾	2.20
16	S616BS 1	14½	2.667	3.000	B	1	¼ × ¼	(1) 5/16-18 @ 90	2 ½	¾	2.60
16	S616BS 1-1/8	14½	2.667	3.000	B	1½	¼ × ¼	(1) 5/16-18 @ 90	2 ½	¾	2.60
16	S616BS 1-3/16	14½	2.667	3.000	B	1½	¼ × ¼	(1) 5/16-18 @ 90	2 ½	¾	2.60
16	S616BS 1-1/4	14½	2.667	3.000	B	1½	¼ × ¼	(1) 5/16-18 @ 90	2 ½	¾	2.60
18	S618BS 1	14½	3.000	3.333	B	1	¼ × ¼	(1) 5/16-18 @ 90	2 ½	¾	3.50
18	S618BS 1-1/8	14½	3.000	3.333	B	1½	¼ × ¼	(1) 5/16-18 @ 90	2 ½	¾	3.50
18	S618BS 1-3/16	14½	3.000	3.333	B	1½	¼ × ¼	(1) 5/16-18 @ 90	2 ½	¾	3.50
18	S618BS 1-1/4	14½	3.000	3.333	B	1½	¼ × ¼	(1) 5/16-18 @ 90	2 ½	¾	3.50
20	S620BS 1	14½	3.333	3.667	B	1	¼ × ¼	(1) 5/16-18 @ 90	2 7/8	¾	4.60
20	S620BS 1-1/8	14½	3.333	3.667	B	1½	¼ × ¼	(1) 5/16-18 @ 90	2 7/8	¾	4.60
20	S620BS 1-3/16	14½	3.333	3.667	B	1½	¼ × ¼	(1) 5/16-18 @ 90	2 7/8	¾	4.60
20	S620BS 1-1/4	14½	3.333	3.667	B	1½	¼ × ¼	(1) 5/16-18 @ 90	2 7/8	¾	4.60

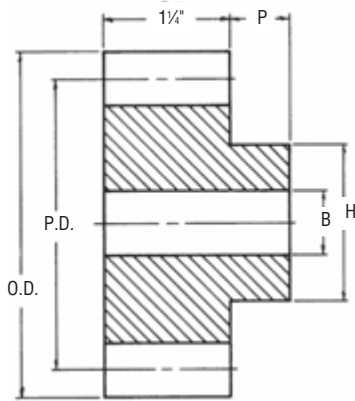
14½° P.A. Gears Will Not Operate With 20° P.A.

8 DP

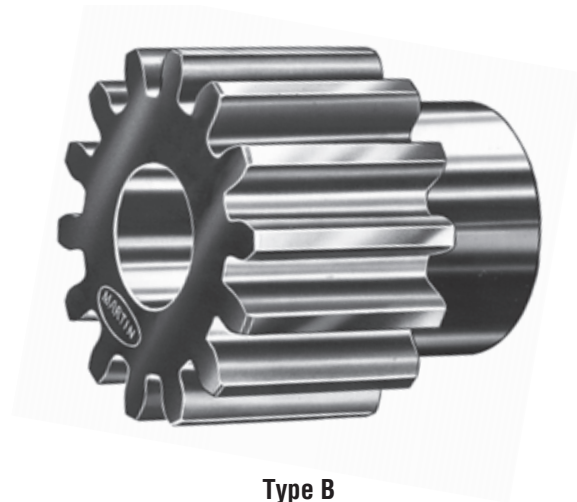
1 1/4" Face

Steel Stock Spur Gears

14 1/2° Pressure Angle



Type B



Type B
Plain With Hub

Steel

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max. *	Diameter	Proj.	
11	S811	14 1/2	1.500†	1.750	B	3/8	**	1 1/8	3/4	0.5
12	S812	14 1/2	1.500	1.750	B	3/8	**	1 1/8	3/4	0.5
13	S813	14 1/2	1.625	1.875	B	3/8	**	1 1/4	3/4	0.7
14	S814	14 1/2	1.750	2.000	B	3/8	13/16	1 3/8	3/4	0.9
15	S815	14 1/2	1.875	2.125	B	7/8	7/8	1 1/2	3/4	0.9
16	S816	14 1/2	2.000	2.250	B	7/8	15/16	1 5/8	3/4	1.1
17	S817	14 1/2	2.125	2.375	B	7/8	1	1 3/4	3/4	1.3
18	S818	14 1/2	2.250	2.500	B	7/8	1 1/8	1 7/8	3/4	1.6
19	S819	14 1/2	2.375	2.625	B	7/8	1 1/4	2	3/4	1.8
20	S820	14 1/2	2.500	2.750	B	7/8	1 1/2	2 1/8	3/4	2.0
21	S821	14 1/2	2.625	2.875	B	7/8	1 5/8	2 1/4	3/4	2.3
22	S822	14 1/2	2.750	3.000	B	7/8	1 3/4	2 3/8	3/4	2.6
24	S824	14 1/2	3.000	3.250	B	7/8	1 7/8	2 5/8	1	3.6
26	S826	14 1/2	3.250	3.500	B	7/8	1 7/8	2 7/8	1	3.9
28	S828	14 1/2	3.500	3.750	B	7/8	1 7/8	2 7/8	1	4.4
30	S830	14 1/2	3.750	4.000	B	7/8	1 7/8	2 7/8	1	5.1
32	S832	14 1/2	4.000	4.250	B	1	1 5/8	3	1	5.6
36	S836	14 1/2	4.500	4.750	B	1	1 5/8	3	1	7.0
40	S840	14 1/2	5.000	5.250	B	1	1 5/8	3	1	8.3
42	S842	14 1/2	5.250	5.500	B	1	1 5/8	3	1	9.0
44	S844	14 1/2	5.500	5.750	B	1	1 5/8	3	1	9.7
48	S848	14 1/2	6.000	6.250	B	1	1 5/8	3	1	11.3

* Recommended maximum bore with keyway and set screw.

** Check application with factory.

† Enlarged pitch diameter with special tooth form.

14 1/2° P.A. Gears Will Not Operate With 20° P.A.



Cast Iron Stock Spur Gears

14½° Pressure Angle

8 DP 1¼" Face



Type B Plain With Hub



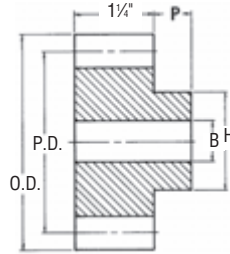
Type B₁ Web



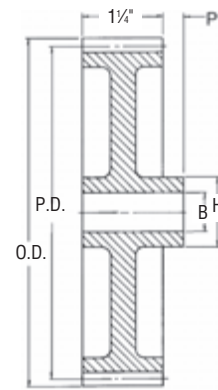
Type B₂
Web With Lighten Holes



Type B₃
Spoke Style



Type B



Type B₁, B₂, B₃

Cast — Style “B”

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max. *	Diameter	Proj.	
• 36	C836	14½	4.500	4.750	B ₁	1	1¼	2½	1	4.5
• 40	C840	14½	5.000	5.250	B ₁	1	1¼	2½	1	5.1
• 42	C842	14½	5.250	5.500	B ₁	1	1¼	2½	1	5.5
• 44	C844	14½	5.500	5.750	B ₁	1	1¼	2½	1	6.0
52	C852	14½	6.500	6.750	B ₁	1	1½	2½	1	10.3
54	C854	14½	6.750	7.000	B ₁	1	1½	2½	1	8.1
56	C856	14½	7.000	7.250	B ₁	1	1½	2½	1	8.2
60	C860	14½	7.500	7.750	B ₁	1	1½	2½	1	8.8
64	C864	14½	8.000	8.250	B ₁	1	1½	2½	1	11.2
68	C868	14½	8.500	8.750	B ₁	1	1½	3"	1	11.5
72	C872	14½	9.000	9.250	B ₁	1	1½	3"	1	11.7
76	C876	14½	9.500	9.750	B ₁	1	1½	3"	1	12.0
80	C880	14½	10.000	10.250	B ₁	1½	1½	3"	1½	12.2
84	C884	14½	10.500	10.750	B ₁	1½	1½	3"	1½	13.2
88	C888	14½	11.000	11.250	B ₁	1½	1½	3"	1½	13.5
92	C892	14½	11.500	11.750	B ₁	1½	2½	3¼	1½	15.0
96	C896	14½	12.000	12.250	B ₁	1½	2½	3¼	1½	15.8
100	C8100	14½	12.500	12.750	B ₁	1½	2½	3¼	1½	16.5
112	C8112	14½	14.000	14.250	B ₁	1½	2½	3¼	1½	17.7
120	C8120	14½	15.000	15.250	B ₁	1½	2½	3¼	1½	18.4
128	C8128	14½	16.000	16.250	B ₁	1½	2½	3½	1½	21.3
144	C8144	14½	18.000	18.250	B ₁	1½	2½	3½	1½	24.2
160	C8160	14½	20.000	20.250	B ₁	1½	2½	3½	1½	26.6
168	C8168	14½	21.000	21.250	B ₁	1½	2½	3½	1½	28.9

* Recommended maximum bore with keyway and set screw.

• Consult Factory.

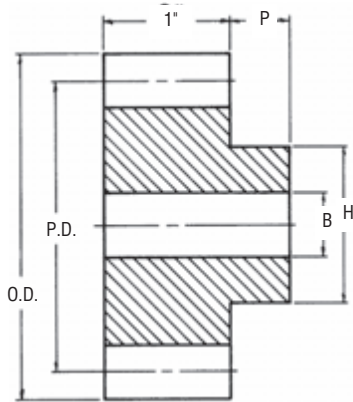
Bored-to-Size

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Set Screw	Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Keyway		Diameter	Proj.	
11	S811BS 3/4	14½	1.500	1.750	B	¾	¾ × ⅜ ₂	(1) 10-24 @ 90	1½	¾	0.50
12	S812BS 3/4	14½	1.500	1.750	B	¾	¾ × ⅜ ₂	(1) 10-24 @ 90	1½	¾	0.50
14	S814BS 3/4	14½	1.750	2.000	B	¾	¾ × ⅜ ₂	(1) 1/4-20 @ 90	1½	¾	0.90
15	S815BS 7/8	14½	1.875	2.125	B	⅞	¾ × ⅜ ₂	(1) 1/4-20 @ 90	1½	¾	1.00
16	S816BS 7/8	14½	2.000	2.250	B	⅞	¾ × ⅜ ₂	(1) 1/4-20 @ 90	1½	¾	1.10
16	S816BS 1	14½	2.000	2.250	B	1	¾ × ⅜	(1) 5/16-18 @ 90	1½	¾	1.10
18	S818BS 7/8	14½	2.250	2.500	B	⅞	¾ × ⅜ ₂	(1) 1/4-20 @ 90	1½	¾	1.60
18	S818BS 1	14½	2.250	2.500	B	1	¾ × ⅜	(1) 5/16-18 @ 90	1½	¾	1.60
18	S818BS 1-1/8	14½	2.250	2.500	B	1½	¾ × ⅜	(1) 5/16-18 @ 90	1½	¾	1.60
20	S820BS 7/8	14½	2.500	2.750	B	⅞	¾ × ⅜ ₂	(1) 1/4-20 @ 90	2½	¾	2.00
20	S820BS 1	14½	2.500	2.750	B	1	¾ × ⅜	(1) 5/16-18 @ 90	2½	¾	2.00
20	S820BS 1-1/8	14½	2.500	2.750	B	1½	¾ × ⅜	(1) 5/16-18 @ 90	2½	¾	2.00
22	S822BS 7/8	14½	2.750	3.000	B	⅞	¾ × ⅜ ₂	(1) 1/4-20 @ 90	2½	¾	2.60
22	S822BS 1	14½	2.750	3.000	B	1	¾ × ⅜	(1) 5/16-18 @ 90	2½	¾	2.60
22	S822BS 1-1/8	14½	2.750	3.000	B	1½	¾ × ⅜	(1) 5/16-18 @ 90	2½	¾	2.60

14½° P.A. Gears Will Not Operate With 20° P.A.

10 DP 1" Face

Steel Stock Spur Gears 14½° Pressure Angle



Type B



Type B
Plain With Hub

Steel

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max. *	Diameter	Proj.	
11	S1011	14½	1.200 †	1.400	B	¾	**	⅜	¾	0.3
12	S1012	14½	1.200	1.400	B	¾	**	⅜	¾	0.3
13	S1013	14½	1.300	1.500	B	¾	**	1	¾	0.3
14	S1014	14½	1.400	1.600	B	¾	⅝	1½	¾	0.4
15	S1015	14½	1.500	1.700	B	¾	¾	1½	¾	0.5
16	S1016	14½	1.600	1.800	B	¾	¾	1½	¾	0.6
17	S1017	14½	1.700	1.900	B	¾	⅞	1½	¾	0.6
18	S1018	14½	1.800	2.000	B	¾	⅞	1½	¾	0.8
19	S1019	14½	1.900	2.100	B	¾	⅞	1½	¾	0.9
20	S1020	14½	2.000	2.200	B	¾	1	1½	¾	1.0
21	S1021	14½	2.100	2.300	B	¾	1	1½	¾	1.2
22	S1022	14½	2.200	2.400	B	¾	1½	1½	¾	1.3
24	S1024	14½	2.400	2.600	B	¾	1½	2½	¾	1.6
25	S1025	14½	2.500	2.700	B	¾	1½	2½	¾	1.8
26	S1026	14½	2.600	2.800	B	¾	1½	2½	¾	1.9
28	S1028	14½	2.800	3.000	B	¾	1½	2½	¾	2.3
30	S1030	14½	3.000	3.200	B	¾	1½	2½	¾	2.6
32	S1032	14½	3.200	3.400	B	¾	1½	2½	¾	2.9
35	S1035	14½	3.500	3.700	B	¾	1½	2½	¾	3.4
36	S1036	14½	3.600	3.800	B	¾	1½	2½	¾	3.5
38	S1038	14½	3.800	4.000	B	¾	1½	2½	¾	3.8
40	S1040	14½	4.000	4.200	B	¾	1½	2½	¾	4.1
42	S1042	14½	4.400	4.400	B	¾	1½	2½	¾	4.5
45	S1045	14½	4.500	4.700	B	¾	1½	2½	¾	5.3
48	S1048	14½	4.800	5.000	B	¾	1½	2½	¾	5.9
50	S1050	14½	5.000	5.200	B	¾	1½	2½	¾	6.4
54	S1054	14½	5.400	5.600	B	¾	1½	2½	¾	7.8
55	S1055	14½	5.500	5.700	B	¾	1½	2½	¾	7.9
60	S1060	14½	6.000	6.200	B	¾	1½	2½	¾	8.7

* Recommended maximum bore with keyway and set screw.

** Check application with factory.

† Enlarged pitch diameter with special tooth form.

14½° P.A. Gears Will Not Operate With 20° P.A.



Cast Iron Stock Spur Gears

14½° Pressure Angle

10 DP 1" Face



Type B
Plain With Hub



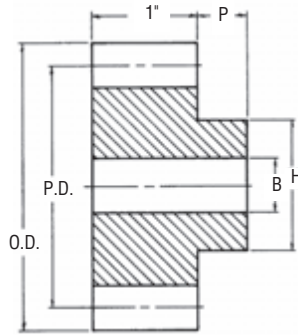
Type B₁
Web



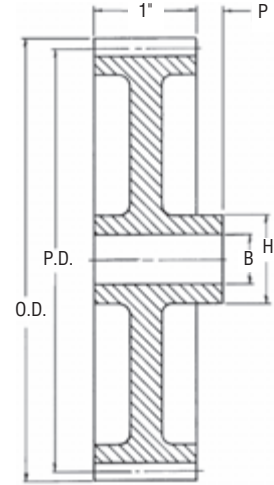
Type B₂
Web With
Lighten Holes



Type B₃
Spoke Style



Type B



Type B₁, B₂, B₃

Cast — Style “B”

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
• 60	C1060	14½	6.000	6.200	B ₃	¾	1⅞	2½	¾	4.3
64	C1064	14½	6.400	6.600	B ₃	¾	1⅞	2½	¾	5.6
65	C1065	14½	6.500	6.700	B ₃	¾	1⅞	2½	¾	5.6
70	C1070	14½	7.000	7.200	B ₃	¾	1⅞	2½	¾	5.9
72	C1072	14½	7.200	7.500	B ₃	¾	1⅞	2½	¾	6.3
75	C1075	14½	7.500	7.700	B ₃	¾	1⅞	2½	¾	6.7
80	C1080	14½	8.000	8.200	B ₃	¾	1⅞	2½	¾	7.0
84	C1084	14½	8.400	8.600	B ₃	¾	1⅞	2½	¾	6.9
85	C1085	14½	8.500	8.700	B ₃	¾	1⅞	2½	¾	7.3
90	C1090	14½	9.000	9.200	B ₃	¾	1⅞	2½	¾	7.6
95	C1095	14½	9.500	9.700	B ₃	¾	1⅞	2½	¾	8.1
96	C1096	14½	9.600	9.800	B ₃	¾	1⅞	2½	¾	8.1
100	C10100	14½	10.000	10.200	B ₃	1	1⅞	2½	¾	10.3
105	C10105	14½	10.500	10.700	B ₃	1	1⅞	2½	1	10.4
110	C10110	14½	11.000	11.200	B ₃	1	1⅞	2½	1	10.0
112	C10112	14½	11.200	11.400	B ₃	1	1⅞	2½	1	10.2
120	C10120	14½	12.000	12.200	B ₃	1	1⅞	2½	1	11.1
130	C10130	14½	13.000	13.200	B ₃	1	1⅞	2½	1	13.4
140	C10140	14½	14.000	14.200	B ₃	1	1⅞	2½	1	30.8
150	C10150	14½	15.000	15.200	B ₃	1	1⅞	2½	1	33.0
160	C10160	14½	16.000	16.200	B ₃	1	1⅞	2½	1	38.3
180	C10180	14½	18.000	18.200	B ₃	1	1⅞	3	1	43.6

* Recommended maximum bore with keyway and set screw.

• Consult Factory.

Bored-to-Size

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Set Screw	Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Keyway		Diameter	Proj.	
11	S1011BS 5/8	14½	1.200	1.400	B	⅝	⅜ X ⅜	(1) 10-24 @ 90	1⅞	⅝	0.30
12	S1012BS 5/8	14½	1.200	1.400	B	⅝	⅜ X ⅜	(1) 10-24 @ 90	1⅞	⅝	0.30
14	S1014BS 5/8	14½	1.400	1.600	B	⅝	⅜ X ⅜	(1) 1/4-20 @ 90	1⅞	⅝	0.40
15	S1015BS 3/4	14½	1.500	1.700	B	¾	⅜ X ⅜	(1) 1/4-20 @ 90	1⅞	⅝	0.50
16	S1016BS 3/4	14½	1.600	1.800	B	¾	⅜ X ⅜	(1) 1/4-20 @ 90	1⅞	⅝	0.60
18	S1018BS 3/4	14½	1.800	2.000	B	¾	⅜ X ⅜	(1) 1/4-20 @ 90	1⅞	⅝	0.80
18	S1018BS 7/8	14½	1.800	2.000	B	⅞	⅜ X ⅜	(1) 1/4-20 @ 90	1⅞	⅝	0.80
20	S1020BS 3/4	14½	2.000	2.200	B	¾	⅜ X ⅜	(1) 1/4-20 @ 90	1⅞	⅝	1.00
20	S1020BS 7/8	14½	2.000	2.200	B	⅞	⅜ X ⅜	(1) 1/4-20 @ 90	1⅞	⅝	1.00
20	S1020BS 1	14½	2.000	2.200	B	1	¼ X ⅜	(1) 5/16-18 @ 90	1⅞	⅝	1.00
24	S1024BS 3/4	14½	2.400	2.600	B	¾	⅜ X ⅜	(1) 1/4-20 @ 90	2⅞	⅝	1.60
24	S1024BS 7/8	14½	2.400	2.600	B	⅞	⅜ X ⅜	(1) 1/4-20 @ 90	2⅞	⅝	1.60
24	S1024BS 1	14½	2.400	2.600	B	1	¼ X ⅜	(1) 5/16-18 @ 90	2⅞	⅝	1.60

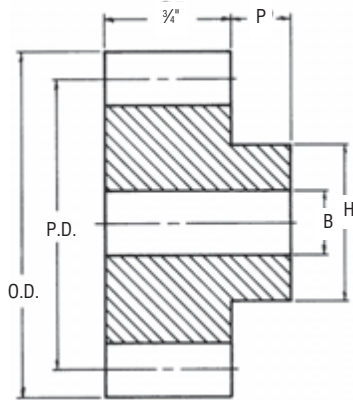
14½° P.A. Gears Will Not Operate With 20° P.A.

12 DP

3/4" Face

Steel Stock Spur Gears

14½° Pressure Angle



Type B



Type B
Plain With Hub

Steel

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max. *	Diameter	Proj.	
11	S1211	14½	1.000†	1.167	B	½	**	¾	½	0.14
12	S1212	14½	1.000	1.167	B	½	**	¾	½	0.16
13	S1213	14½	1.083	1.250	B	½	**	13/16	½	0.20
14	S1214	14½	1.167	1.333	B	½	**	29/32	½	0.24
15	S1215	14½	1.250	1.417	B	5/8	**	1	½	0.27
16	S1216	14½	1.333	1.500	B	5/8	5/8	1 1/16	½	0.34
17	S1217	14½	1.417	1.580	B	5/8	5/8	1 1/8	½	0.36
18	S1218	14½	1.500	1.667	B	5/8	1 1/16	1 1/4	½	0.42
19	S1219	14½	1.583	1.750	B	5/8	¾	1 1/16	½	0.48
20	S1220	14½	1.667	1.833	B	5/8	13/16	1 1/2	½	0.56
21	S1221	14½	1.750	1.917	B	5/8	7/8	1 1/2	½	0.64
22	S1222	14½	1.833	2.000	B	5/8	7/8	1 1/16	½	0.70
23	S1223	14½	1.917	2.083	B	5/8	15/16	1 5/8	½	0.78
24	S1224	14½	2.000	2.166	B	5/8	1	1 3/4	½	0.88
25	S1225	14½	2.083	2.250	B	5/8	1 1/16	1 7/8	½	0.96
26	S1226	14½	2.167	2.333	B	5/8	1 1/8	1 15/16	5/8	1.14
28	S1228	14½	2.333	2.500	B	5/8	1 1/2	2 1/16	5/8	1.34
30	S1230	14½	2.500	2.667	B	5/8	1 1/2	2 1/4	5/8	1.60
32	S1232	14½	2.667	2.833	B	5/8	1 1/2	2 1/4	5/8	1.72
34	S1234	14½	2.833	3.000	B	5/8	1 1/2	2 1/4	5/8	1.88
36	S1236	14½	3.000	3.167	B	5/8	1 1/2	2 1/2	5/8	2.20
38	S1238	14½	3.167	3.333	B	5/8	1 1/2	2 1/2	5/8	2.38
40	S1240	14½	3.333	3.500	B	5/8	1 1/2	2 1/2	5/8	2.54
42	S1242	14½	3.500	3.666	B	5/8	1 1/2	2 1/2	5/8	2.72
44	S1244	14½	3.667	3.833	B	5/8	1 1/2	2 1/2	5/8	2.94
48	S1248	14½	4.000	4.166	B	5/8	1 1/2	2 1/2	5/8	3.50
54	S1254	14½	4.500	4.666	B	3/4	1 1/2	2 3/4	5/8	4.40
56	S1256	14½	4.667	4.833	B	3/4	1 1/2	2 3/4	5/8	4.60
60	S1260	14½	5.000	5.166	B	3/4	1 1/2	2 3/4	5/8	5.14
64	S1264	14½	5.333	5.500	B	3/4	1 1/2	2 3/4	5/8	5.74
66	S1266	14½	5.500	5.666	B	3/4	1 1/2	2 3/4	5/8	6.02
72	S1272	14½	6.000	6.166	B	3/4	1 1/2	2 3/4	5/8	7.02

* Recommended maximum bore with keyway and set screw.

** Check application with factory.

† Enlarged pitch diameter with special tooth form.

14½° P.A. Gears Will Not Operate With 20° P.A.

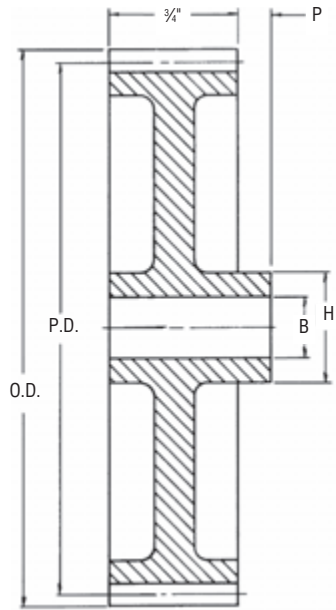


Cast Iron Stock Spur Gears

14½° Pressure Angle

12 DP

¾" Face



Type B₁, B₃



Type B₃
Spoke Style



Type B₁
Web

Cast — Style “B”

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
78	C1278	14½	6.500	6.666	B ₃	¾	1¼	2½	¾	4.1
84	C1284	14½	7.000	7.166	B ₃	¾	1¼	2½	¾	4.4
90	C1290	14½	7.500	7.666	B ₃	¾	1¼	2½	¾	5.2
96	C1296	14½	8.000	8.166	B ₃	¾	1¼	2½	¾	5.5
102	C12102	14½	8.500	8.666	B ₃	¾	1¼	2½	¾	5.9
108	C12108	14½	9.000	9.166	B ₃	¾	1¼	2½	¾	6.4
112	C12112	14½	9.333	9.500	B ₃	¾	1¼	2½	¾	6.4
114	C12114	14½	9.500	9.666	B ₃	¾	1¼	2½	¾	6.4
120	C12120	14½	10.000	10.166	B ₃	¾	1¼	2½	¾	8.1
126	C12126	14½	10.500	10.666	B ₃	¾	1¼	3	¾	7.4
144	C12144	14½	12.000	12.166	B ₃	¾	1¼	3	1	10.1
168	C12168	14½	14.000	14.166	B ₁	¾	1¼	3	1	10.6

* Recommended maximum bore with keyway and set screw.

Bored-to-Size

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Set Screw	Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Keyway		Diameter	Proj.	
11	S1211BS 1/2	14½	1.000	1.167	B	½	NONE	(1) 10-24	¾	½	0.14
12	S1212BS 1/2	14½	1.000	1.167	B	½	NONE	(1) 10-24	¾	½	0.16
13	S1213BS 1/2	14½	1.083	1.250	B	½	NONE	(1) 10-24	19/32	½	0.20
14	S1214BS 1/2	14½	1.167	1.333	B	½	NONE	(1) 10-24	29/32	5/8	0.24
15	S1215BS 5/8	14½	1.250	1.417	B	5/8	3/16 x 7/32	(1) 10-24 @ 90	1	½	0.27
16	S1216BS 5/8	14½	1.333	1.500	B	5/8	3/16 x 3/32	(1) 1/4-20 @ 90	1¼	½	0.34
18	S1218BS 5/8	14½	1.500	1.667	B	5/8	3/16 x 7/32	(1) 1/4-20 @ 90	1¼	½	0.42
20	S1220BS 5/8	14½	1.667	1.833	B	5/8	3/16 x 7/32	(1) 1/4-20 @ 90	1½	½	0.56
20	S1220BS 3/4	14½	1.667	1.833	B	3/4	3/16 x 3/32	(1) 1/4-20 @ 90	1½	½	0.56
21	S1221BS 5/8	14½	1.750	1.917	B	5/8	3/16 x 7/32	(1) 1/4-20 @ 90	1½	½	0.56
21	S1221BS 3/4	14½	1.750	1.917	B	3/4	3/16 x 3/32	(1) 1/4-20 @ 90	1½	½	0.56
21	S1221BS 7/8	14½	1.750	1.917	B	7/8	3/16 x 7/32	(1) 1/4-20 @ 90	1½	½	0.56
22	S1222BS 5/8	14½	1.833	2.000	B	5/8	3/16 x 7/32	(1) 1/4-20 @ 90	1½	½	0.70
22	S1222BS 3/4	14½	1.833	2.000	B	3/4	3/16 x 3/32	(1) 1/4-20 @ 90	1½	½	0.70
22	S1222BS 7/8	14½	1.833	2.000	B	7/8	3/16 x 7/32	(1) 1/4-20 @ 90	1½	½	0.70
22	S1222BS 1	14½	1.833	2.000	B	1	¼ x ½	(1) 5/16-18 @ 90	1½	½	0.70
24	S1224BS 5/8	14½	2.000	2.167	B	5/8	3/16 x 7/32	(1) 1/4-20 @ 90	1¾	½	0.88
24	S1224BS 3/4	14½	2.000	2.167	B	3/4	3/16 x 7/32	(1) 1/4-20 @ 90	1¾	½	0.88
24	S1224BS 7/8	14½	2.000	2.167	B	7/8	3/16 x 7/32	(1) 1/4-20 @ 90	1¾	½	0.88
24	S1224BS 1	14½	2.000	2.167	B	1	¼ x ½	(1) 5/16-18 @ 90	1¾	½	0.88

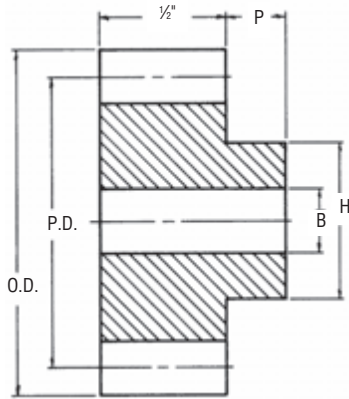
14½° P.A. Gears Will Not Operate With 20° P.A.

16 DP

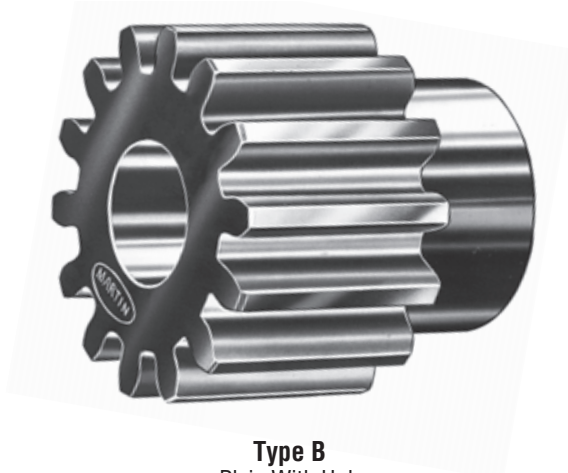
1/2" Face

Steel Stock Spur Gears

14 1/2° Pressure Angle



Type B



Type B
Plain With Hub

Steel

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max. *	Diameter	Proj.	
11	S1611	14 1/2	0.750†	0.875	B	3/8	**	5/16	1/16	0.06
12	S1612	14 1/2	0.750	0.875	B	3/8	**	5/16	1/16	0.06
13	S1613	14 1/2	0.812	0.937	B	3/8	**	5/8	1/16	0.08
14	S1614	14 1/2	0.875	1.000	B	3/8	**	1 1/16	1/16	0.08
15	S1615	14 1/2	0.937	1.062	B	1/2	**	3/4	1/16	0.10
16	S1616	14 1/2	1.000	1.125	B	1/2	**	13/16	1/16	0.12
17	S1617	14 1/2	1.062	1.187	B	1/2	**	7/8	1/16	0.14
18	S1618	14 1/2	1.125	1.250	B	1/2	**	15/16	1/16	0.16
19	S1619	14 1/2	1.187	1.312	B	1/2	1/2	1	1/16	0.20
20	S1620	14 1/2	1.250	1.375	B	1/2	5/8	1 1/16	1/16	0.22
21	S1621	14 1/2	1.312	1.438	B	1/2	5/8	1 1/2	1/16	0.24
22	S1622	14 1/2	1.375	1.500	B	1/2	5/8	1 3/16	1/16	0.28
23	S1623	14 1/2	1.437	1.562	B	1/2	11/16	1 1/2	1/16	0.32
24	S1624	14 1/2	1.500	1.625	B	1/2	3/4	1 3/8	1/16	0.34
26	S1626	14 1/2	1.625	1.750	B	1/2	7/8	1 1/2	1/16	0.42
28	S1628	14 1/2	1.750	1.875	B	1/2	7/8	1 1/2	1/2	0.52
30	S1630	14 1/2	1.875	2.000	B	1/2	15/16	1 3/4	1/2	0.60
32	S1632	14 1/2	2.000	2.125	B	1/2	1	1 3/4	1/2	0.70
34	S1634	14 1/2	2.125	2.250	B	1/2	1 1/8	1 3/4	1/2	0.80
36	S1636	14 1/2	2.250	2.375	B	1/2	1 1/4	2	1/2	0.92
38	S1638	14 1/2	2.375	2.500	B	1/2	1 1/4	2	1/2	0.98
40	S1640	14 1/2	2.500	2.626	B	1/2	1 1/2	2	1/2	1.10
44	S1644	14 1/2	2.750	2.875	B	1/2	1 1/2	2	1/2	1.20
48	S1648	14 1/2	3.000	3.125	B	1/2	1 1/2	2	1/2	1.40
52	S1652	14 1/2	3.250	3.375	B	1/2	1 1/2	2	1/2	1.50
54	S1654	14 1/2	3.375	3.500	B	1/2	1 1/2	2	1/2	1.60
56	S1656	14 1/2	3.500	3.625	B	1/2	1 1/2	2	1/2	1.70
60	S1660	14 1/2	3.750	3.875	B	1/2	1 1/2	2	1/2	1.30
64	S1664	14 1/2	4.000	4.125	B	5/8	1 1/2	2	5/8	2.20
68	S1668	14 1/2	4.250	4.375	B	5/8	1 1/2	2 1/4	5/8	2.50
72	S1672	14 1/2	4.500	4.625	B	5/8	1 1/2	2 1/4	5/8	2.80
80	S1680	14 1/2	5.000	5.125	B	5/8	1 1/2	2 1/4	5/8	3.40
84	S1684	14 1/2	5.250	5.375	B	5/8	1 1/2	2 1/4	5/8	3.60
88	S1688	14 1/2	5.500	5.625	B	5/8	1 1/2	2 1/4	5/8	3.90
96	S1696	14 1/2	6.000	6.125	B	5/8	1 1/2	2 1/4	5/8	4.60
104	S16104	14 1/2	6.500	6.625	B	5/8	1 1/2	2 1/4	5/8	5.20

* Recommended maximum bore with keyway and set screw.

** Check application with factory.

† Enlarged pitch diameter with special tooth form.

14 1/2° P.A. Gears Will Not Operate With 20° P.A.

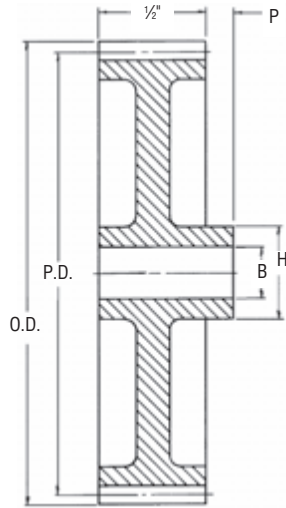


Cast Iron Stock Spur Gears

14½° Pressure Angle

16 DP

½" Face



Type B₁, B₃



Type B₃
Spoke Style



Type B₁
Web

Cast — Style “B”

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
112	C16112	14½	7.000	7.125	B ₃	¾	1⅞	2½	¾	3.4
120	C16120	14½	7.500	7.625	B ₃	¾	1⅞	2½	¾	3.5
128	C16128	14½	8.000	8.125	B ₃	¾	1⅞	2½	¾	3.7
144	C16144	14½	9.000	9.125	B ₃	¾	1⅞	2½	¾	5.0
160	C16160	14½	10.000	10.125	B ₃	¾	1⅞	2½	¾	5.2
192	C16192	14½	12.000	12.125	B ₁	¾	1⅞	2½	¾	8.1

* Recommended maximum bore with keyway and set screw.

Bored-to-Size

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Set Screw	Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Keyway		Diameter	Proj.	
11	S1611BS 3/8	14½	0.750	0.875	B	¾	None	(1) 8-32	⅞	⅞	0.06
12	S1612BS 3/8	14½	0.752	0.875	B	¾	None	(1) 8-32	⅞	⅞	0.06
13	S1613BS 3/8	14½	0.812	0.937	B	¾	None	(1) 8-32	⅞	⅞	0.08
14	S1614BS 3/8	14½	0.875	1.000	B	¾	None	(1) 10-24	1⅞	⅞	0.08
15	S1615BS 1/2	14½	0.937	1.062	B	½	None	(1) 10-24	¾	⅞	0.10
16	S1616BS 1/2	14½	1.000	1.125	B	½	None	(1) 10-24	1⅞	⅞	0.12
18	S1618BS 1/2	14½	1.125	1.250	B	½	None	(1) 1/4-20	1⅞	⅞	0.16
20	S1620BS 1/2	14½	1.250	1.375	B	½	None	(1) 1/4-20	1⅞	⅞	0.22
20	S1620BS 5/8	14½	1.250	1.375	B	¾	⅞ × ⅜	(1) 1/4-20 @ 90	1⅞	⅞	0.22
22	S1622BS 1/2	14½	1.375	1.500	B	½	None	(1) 1/4-20	1⅞	⅞	0.28
22	S1622BS 5/8	14½	1.375	1.500	B	¾	⅞ × ⅜	(1) 1/4-20 @ 90	1⅞	⅞	0.28
24	S1624BS 1/2	14½	1.500	1.625	B	½	None	(1) 1/4-20	1⅞	⅞	0.34
24	S1624BS 5/8	14½	1.500	1.625	B	¾	⅞ × ⅜	(1) 1/4-20 @ 90	1⅞	⅞	0.34
24	S1624BS 3/4	14½	1.500	1.625	B	¾	⅞ × ⅜	(1) 1/4-20 @ 90	1⅞	⅞	0.34
26	S1626BS 1/2	14½	1.625	1.750	B	½	None	(1) 1/4-20	1⅞	⅞	0.42
26	S1626BS 5/8	14½	1.625	1.750	B	¾	⅞ × ⅜	(1) 1/4-20 @ 90	1⅞	⅞	0.42
26	S1626BS 3/4	14½	1.625	1.750	B	¾	⅞ × ⅜	(1) 1/4-20 @ 90	1⅞	⅞	0.42
28	S1628BS 1/2	14½	1.750	1.875	B	½	None	(1) 1/4-20	1⅞	⅞	0.52
28	S1628BS 5/8	14½	1.750	1.875	B	¾	⅞ × ⅜	(1) 1/4-20 @ 90	1⅞	⅞	0.52
28	S1628BS 3/4	14½	1.750	1.875	B	¾	⅞ × ⅜	(1) 1/4-20 @ 90	1⅞	⅞	0.52
28	S1628BS 7/8	14½	1.750	1.875	B	¾	⅞ × ⅜	(1) 1/4-20 @ 90	1⅞	⅞	0.52
30	S1630BS 1/2	14½	1.875	2.000	B	½	None	(1) 1/4-20	1⅞	⅞	0.60
30	S1630BS 5/8	14½	1.875	2.000	B	¾	⅞ × ⅜	(1) 1/4-20 @ 90	1⅞	⅞	0.60
30	S1630BS 3/4	14½	1.875	2.000	B	¾	⅞ × ⅜	(1) 1/4-20 @ 90	1⅞	⅞	0.60
30	S1630BS 7/8	14½	1.875	2.000	B	¾	⅞ × ⅜	(1) 1/4-20 @ 90	1⅞	⅞	0.60
30	S1630BS 1	14½	1.875	2.000	B	1	¼ × ¼	(1) 5/16-18 @ 90	1⅞	⅞	0.60
32	S1632BS 1/2	14½	2.000	2.125	B	½	None	(1) 1/4-20	1⅞	⅞	0.70
32	S1632BS 5/8	14½	2.000	2.125	B	¾	⅞ × ⅜	(1) 1/4-20 @ 90	1⅞	⅞	0.70
32	S1632BS 3/4	14½	2.000	2.125	B	¾	⅞ × ⅜	(1) 1/4-20 @ 90	1⅞	⅞	0.70
32	S1632BS 7/8	14½	2.000	2.125	B	¾	⅞ × ⅜	(1) 1/4-20 @ 90	1⅞	⅞	0.70
32	S1632BS 1	14½	2.000	2.125	B	1	¼ × ¼	(1) 5/16-18 @ 90	1⅞	⅞	0.70

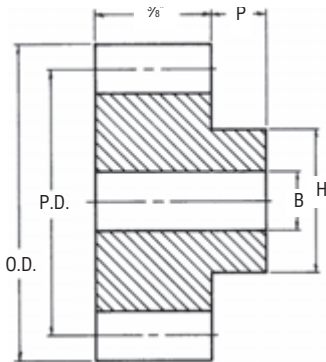
14½° P.A. Gears Will Not Operate With 20° P.A.

20 DP

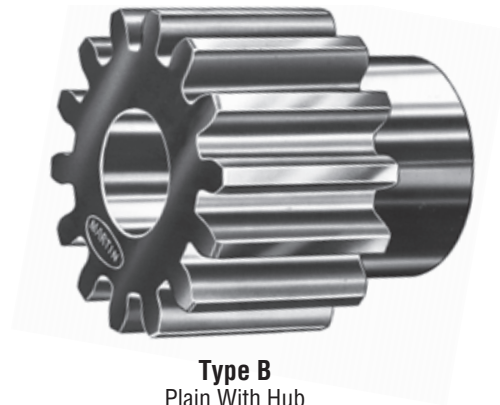
3/8" Face

Steel Stock Spur Gears

14½° Pressure Angle



Type B



Type B
Plain With Hub

Steel

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
11	S2011	14½	0.600†	0.700	B	3/16	**	15/64	3/8	0.02
12	S2012	14½	0.600	0.700	B	3/16	**	15/64	3/8	0.02
13	S2013	14½	0.650	0.750	B	3/16	**	1/2	3/8	0.04
14	S2014	14½	0.700	0.800	B	3/16	**	3/64	3/8	0.04
15	S2015	14½	0.750	0.850	B	3/8	**	39/64	3/8	0.04
16	S2016	14½	0.800	0.900	B	3/8	**	23/64	3/8	0.04
17	S2017	14½	0.850	0.950	B	3/8	**	5/64	3/8	0.08
18	S2018	14½	0.900	1.000	B	3/8	**	3/4	3/8	0.08
19	S2019	14½	0.950	1.050	B	3/8	**	5/64	3/8	0.10
20	S2020	14½	1.000	1.100	B	3/8	**	5/64	3/8	0.12
21	S2021	14½	1.050	1.150	B	3/8	**	7/8	3/8	0.12
22	S2022	14½	1.100	1.200	B	3/8	**	31/64	3/8	0.14
23	S2023	14½	1.150	1.250	B	3/8	**	31/64	3/8	0.16
24	S2024	14½	1.200	1.300	B	3/8	**	11/16	3/8	0.19
25	S2025	14½	1.250	1.350	B	3/8	5/8	13/64	3/8	0.20
28	S2028	14½	1.400	1.500	B	3/8	11/16	17/64	3/8	0.26
30	S2030	14½	1.500	1.600	B	3/8	13/16	13/64	3/8	0.30
32	S2032	14½	1.600	1.700	B	3/8	7/8	11/16	3/8	0.40
35	S2035	14½	1.750	1.850	B	3/8	7/8	19/16	3/8	0.50
36	S2036	14½	1.800	1.900	B	3/8	13/16	13/16	3/8	0.52
40	S2040	14½	2.000	2.100	B	3/8	11/16	11/16	3/8	0.64
45	S2045	14½	2.250	2.350	B	3/8	11/4	2	3/8	0.82
48	S2048	14½	2.400	2.500	B	3/8	11/4	2	3/8	0.88
50	S2050	14½	2.500	2.600	B	3/8	11/4	2	3/8	0.90
55	S2055	14½	2.750	2.850	B	3/8	11/4	2	3/8	1.04
60	S2060	14½	3.000	3.100	B	3/8	11/4	2	3/8	1.16
64	S2064	14½	3.200	3.300	B	3/8	11/4	2	3/8	1.26
70	S2070	14½	3.500	3.600	B	3/8	11/4	2	3/8	1.40
72	S2072	14½	3.600	3.700	B	3/8	13/16	23/4	3/8	1.60
75	S2075	14½	3.750	3.850	B	3/8	13/16	23/4	3/8	1.70
80	S2080	14½	4.000	4.100	B	1/2	13/16	23/4	3/8	1.82
84	S2084	14½	4.200	4.300	B	1/2	13/16	23/4	3/8	1.96
90	S2090	14½	4.500	4.600	B	1/2	13/16	23/4	3/8	2.20
96	S2096	14½	4.800	4.900	B	1/2	13/16	23/4	3/8	2.42
100	S20100	14½	5.000	5.100	B	1/2	13/16	23/4	3/8	2.60
112	S20112	14½	5.600	5.700	B	1/2	1	13/4	3/8	2.86
120	S20120	14½	6.000	6.100	B1	1/2	1	13/4	3/8	3.24
132	S20132	14½	6.600	6.700	B	1/2	1	13/4	3/8	3.80

* Recommended maximum bore with keyway and set screw.

** Check application with factory.

† Enlarged pitch diameter with special tooth form.

14½° P.A. Gears Will Not Operate With 20° P.A.

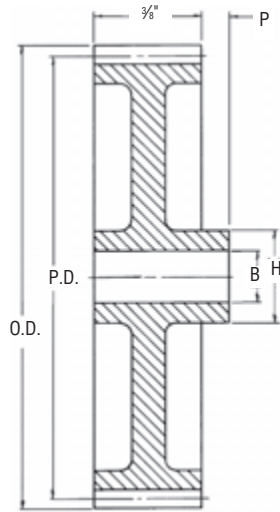


Cast Iron Stock Spur Gears

14½° Pressure Angle

20 DP

3/8" Face



Type B₁, B₃



Type B₃
Spoke Style



Type B₁
Web

Cast — Style “B”

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
• 48	C2048	14½	2.400	2.500	B ₁	¾	¾	1½	½	0.50
• 64	C2064	14½	3.200	3.300	B ₁	¾	¾	1½	½	0.68
140	C20140	14½	7.000	7.100	B ₁	½	1	1¾	½	2.00
160	C20160	14½	8.000	8.100	B ₁	½	1	1¾	¾	2.34
180	C20180	14½	9.000	9.100	B ₁	½	1	1¾	¾	2.66
200	C20200	14½	10.000	10.100	B ₁	½	1	1¾	¾	2.84

* Recommended maximum bore with keyway and set screw.
• Consult Factory.

Bored-to-Size

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Set Screw	Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Keyway		Diameter	Proj.	
11	S2011BS 5/16	14½	0.600	0.700	B	5/16	None	#35 P.H.	15/32	3/8	0.02
12	S2012BS 5/16	14½	0.600	0.700	B	5/16	None	#35 P.H.	15/32	3/8	0.02
13	S2013BS 5/16	14½	0.650	0.750	B	5/16	None	#35 P.H.	1/2	3/8	0.04
14	S2014BS 5/16	14½	0.700	0.800	B	5/16	None	#35 P.H.	35/64	3/8	0.04
15	S2015BS 3/8	14½	0.750	0.850	B	3/8	None	(1) 8-32	39/64	3/8	0.04
16	S2016BS 3/8	14½	1.800	0.900	B	3/8	None	(1) 8-32	21/32	3/8	0.04
18	S2018BS 3/8	14½	1.900	1.000	B	3/8	None	(1) 10-24	3/4	3/8	0.08
20	S2020BS 3/8	14½	1.000	1.100	B	3/8	None	(1) 10-24	55/64	3/8	0.12
20	S2020BS 1/2	14½	1.000	1.100	B	1/2	None	(1) 10-24	55/64	3/8	0.12
22	S2022BS 3/8	14½	1.100	1.200	B	3/8	None	(1) 1/4-20	31/32	3/8	0.14
22	S2022BS 1/2	14½	1.100	1.200	B	1/2	None	(1) 1/4-20	31/32	3/8	0.14
24	S2024BS 3/8	14½	1.200	1.300	B	3/8	None	(1) 1/4-20	11/16	3/8	0.19
24	S2024BS 1/2	14½	1.200	1.300	B	1/2	None	(1) 1/4-20	11/16	3/8	0.19
25	S2025BS 3/8	14½	1.250	1.350	B	3/8	None	(1) 1/4-20	13/16	3/8	0.20
25	S2025BS 1/2	14½	1.250	1.350	B	1/2	None	(1) 1/4-20	13/16	3/8	0.20
28	S2028BS 3/8	14½	1.400	1.500	B	3/8	None	(1) 1/4-20	117/64	3/8	0.26
28	S2028BS 1/2	14½	1.400	1.500	B	1/2	None	(1) 1/4-20	117/64	3/8	0.26
30	S2030BS 3/8	14½	1.500	1.600	B	3/8	None	(1) 1/4-20	123/64	3/8	0.30
30	S2030BS 1/2	14½	1.500	1.600	B	1/2	None	(1) 1/4-20	123/64	3/8	0.30
32	S2032BS 3/8	14½	1.600	1.700	B	3/8	None	(1) 1/4-20	17/16	1/2	0.40
32	S2032BS 1/2	14½	1.600	1.700	B	1/2	None	(1) 1/4-20	17/16	1/2	0.40
35	S2035BS 3/8	14½	1.750	1.850	B	3/8	None	(1) 1/4-20	19/16	1/2	0.50
35	S2035BS 1/2	14½	1.750	1.850	B	1/2	None	(1) 1/4-20	19/16	1/2	0.50
36	S2036BS 3/8	14½	1.800	1.900	B	3/8	None	(1) 1/4-20	1	1/2	0.52
36	S2036BS 1/2	14½	1.800	1.900	B	1/2	None	(1) 1/4-20	1	1/2	0.52
40	S2040BS 3/8	14½	2.000	2.100	B	3/8	None	(1) 1/4-20	113/16	1/2	0.64
40	S2040BS 1/2	14½	2.000	2.100	B	1/2	None	(1) 1/4-20	113/16	1/2	0.64
40	S2040BS 5/8	14½	2.000	2.100	B	3/8	3/16 x 3/32	(1) 1/4-20 @ 90	113/16	1/2	0.64
40	S2040BS 3/4	14½	2.000	2.100	B	3/4	3/16 x 3/32	(1) 1/4-20 @ 90	113/16	1/2	0.64

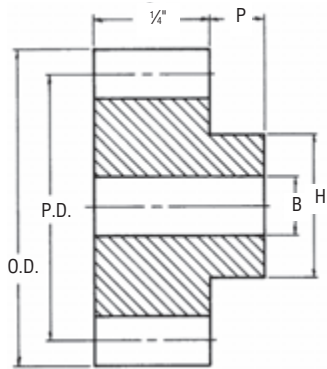
14½° P.A. Gears Will Not Operate With 20° P.A.

24 DP

1/4" Face

Steel Stock Spur Gears

14½° Pressure Angle



Type B



Type B
Plain With Hub

Steel

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
11	S2411	14½	0.500†	0.583	B	¼	**	¾	⅝	0.02
12	S2412	14½	0.500	0.583	B	¼	**	¾	⅝	0.02
14	S2414	14½	0.583	0.666	B	¼	**	15/32	⅝	0.04
15	S2415	14½	0.625	0.708	B	¼	**	½	⅝	0.04
16	S2416	14½	0.666	0.750	B	⅜	**	35/64	⅝	0.04
17	S2417	14½	0.709	0.791	B	⅜	**	⅜	⅝	0.04
18	S2418	14½	0.750	0.833	B	⅜	**	⅜	⅝	0.04
19	S2419	14½	0.791	0.875	B	⅜	**	⅜	⅝	0.06
20	S2420	14½	0.833	0.917	B	⅜	**	23/32	⅝	0.06
21	S2421	14½	0.875	0.959	B	¾	**	¾	⅝	0.06
22	S2422	14½	0.917	1.000	B	¾	**	¾	⅝	0.06
24	S2424	14½	1.000	1.083	B	¾	**	¾	⅝	0.10
26	S2426	14½	1.083	1.166	B	¾	**	¾	⅝	0.10
27	S2427	14½	1.125	1.208	B	¾	**	¾	⅝	0.12
30	S2430	14½	1.250	1.333	B	¾	½	1	⅝	0.16
32	S2432	14½	1.333	1.416	B	¾	½	1	⅝	0.20
33	S2433	14½	1.375	1.458	B	¾	⅝	1 1/8	⅝	0.20
36	S2436	14½	1.500	1.583	B	¾	⅝	1 1/8	⅝	0.20
40	S2440	14½	1.666	1.750	B	¾	⅝	1 1/8	⅝	0.24
42	S2442	14½	1.750	1.833	B	¾	11/16	1 1/4	⅝	0.28
44	S2444	14½	1.833	1.917	B	¾	11/16	1 1/4	⅝	0.30
45	S2445	14½	1.875	1.959	B	¾	11/16	1 1/4	⅝	0.30
48	S2448	14½	2.000	2.083	B	¾	11/16	1 1/4	⅝	0.32
54	S2454	14½	2.250	2.333	B	¾	11/16	1 1/4	⅝	0.38
56	S2456	14½	2.333	2.416	B	¾	11/16	1 1/4	⅝	0.40
60	S2460	14½	2.500	2.583	B	¾	11/16	1 1/4	⅝	0.46
66	S2466	14½	2.750	2.833	B	¾	11/16	1 1/4	⅝	0.52
72	S2472	14½	3.000	3.083	B	½	7/8	1 1/2	½	0.64
84	S2484	14½	3.500	3.583	B	½	7/8	1 1/2	½	0.88
96	S2496	14½	4.000	4.083	B	½	7/8	1 1/2	½	1.08
120	S24120	14½	5.000	5.083	B	½	7/8	1 1/2	½	2.60
144	S24144	14½	6.000	6.083	B	½	11/16	1 3/8	11/32	2.28

* Recommended maximum bore with keyway and set screw.
 ** Check application with factory.
 † Enlarged pitch diameter with special tooth form.

14½° P.A. Gears Will Not Operate With 20° P.A.



14½° Spur Gear Horsepower Ratings

(S) = Steel (CI) = Cast Iron

3 D.P. — 3" Face

No. Teeth	50 RPM		100 RPM		200 RPM		300 RPM		600 RPM		900 RPM		1200 RPM		1800 RPM	
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI
12	6.14		11.37		19.8		26.3		39.14		46.74		51.78			
15	8.76		15.96		27.06		35.24		50.49		59.01					
18	11.37		20.38		33.75		43.2		60		68.93					
21	13.92		24.59		39.84		50.24		67.96							
24	16.32	9.67	28.53	16.84	45.16	26.76	56.19	33.3	74.34	44.05						
48	32.28	19.5	51.3	30.98	72.69	43.9	84.44	51.39								
72	45.01	27.06	66.98	40.29	88.62	53.32										
96	54.74	32.95	77.57	46.7	98.01	59.01										
120	62.89	37.74	85.79	51.48	104.88	62.93										

4 D.P. — 2" Face

No. Teeth	50 RPM		100 RPM		200 RPM		300 RPM		600 RPM		900 RPM		1200 RPM		1800 RPM	
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI
12	2.35		4.42		7.92		10.77		16.8		20.65		23.33		27	
16	3.81		6.85		11.92		15.82		23.6		28.18		31.23			
20	5.06		9.22		15.65		20.38		29.19		31.11					
24	6.27	3.77	11.25	6.75	18.64	11.19	23.86	14.32	33.14	19.88	38.17	22.84				
36	10.03	5.96	17.23	10.24	28.01	15.98	33.05	16.94	42.89	25.49						
48	12.94	7.82	21.44	12.95	31.91	19.28	38.12	23.02	47.31	28.58						
72		11.1		17.32		24.05		27.65								
96		13.78		20.5		27.12										
144		18		25		31										

5 D.P. — 1¾" Face

No. Teeth	50 RPM		100 RPM		200 RPM		300 RPM		600 RPM		900 RPM		1200 RPM		1800 RPM	
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI
12	1.32		2.54		4.63		6.4		10.33		12.98		14.9		17.48	
18	2.5		4.66		8.22		11		16.67		20.13		22.45			
24	3.64	2.16	6.55	3.95	11.18	6.73	14.62	8.79	21.09	12.69	24.74	14.88				
30	4.68	2.79	8.45	5.02	14	8.31	17.92	10.65	24.88	14.79	28.58	17				
45	7.59	4.32	12.2	7.43	19.03	11.59	23.41	14.27	30.38	18.52						
60		5.62		9.31		13.86		16.56		20.55						
80	11.96	7.25	19	11.54	26.92	16.35	31.28	18.99								
100		8.51		13.07		17.84										
120	16.23	9.74	24.16	14.49	31.95	19.18										
160		11.77		16.68		21.09										

Note: 1. Pitch line velocities exceeding 1000 feet per minute are not recommended. They should be used for interpolation purposes only.

2. Non-metallic gears are most commonly used for the driving pinion of a pair of gears, with mating gear made of Cast Iron or Steel, where pitch line velocities exceed 1000 FPM and are not subjected to shock loads.

14½° Spur Gear Horsepower Ratings



(S) = Steel

(CI) = Cast Iron

6 D.P. — ½" Face

No. Teeth	100 RPM		200 RPM		300 RPM		600 RPM		900 RPM		1200 RPM		1800 RPM	
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI
12	1.54		2.83		3.97		6.57		8.4		9.78		11.69	
18	2.83		5.09		6.91		10.8		13.28		14.98		17.22	
24	4.02		7.02		9.32		13.86		16.56		18.35			
30	5.16		8.75		11.41		16.35		19.1					
36	6.26	3.77	10.37	6.24	13.28	7.98	18.44	11.09						
48	7.56	4.88	12.91	7.75	15.98	9.64	20.66	12.75						
84	12.86	7.6	17.62	11.02	20.51	12.96								
120	15.99	9.5	20.86	12.95										
180		12		15										

8 D.P. — 1¼" Face

No. Teeth	100 RPM		200 RPM		300 RPM		600 RPM		900 RPM		1200 RPM		1800 RPM	
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI
12	0.72		1.37		1.95		3.32		4.36		5.21		6.38	
18	1.37		2.52		3.49		5.69		7.2		8.30		9.8	
24	1.98	1.18	3.59	2.13	4.81	2.86	7.55	4.48	9.25	5.49	10.48	6.22	12.08	7.17
36	3.02		5.13		6.73		9.85							
48	4.08	2.5	6.76	4.14	8.58	5.26	11.91	7.29						
60		2.98		4.79		5.98								
72		3.47		5.45		6.67								
96		4.4		6.49		7.75								
112		4.83		7.01										
120		5.05		7.22										
160		6.02		8.21										

10 D.P. — 1" Face

No. Teeth	100 RPM		200 RPM		300 RPM		600 RPM		900 RPM		1200 RPM		1800 RPM	
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI
12	0.38		0.75		1.08		1.88		2.50		3.00		3.75	
18	0.72		1.33		1.87		3.15		4.07		4.76		5.75	
24	1.08		1.98		2.71		4.33		5.41		7.21		7.21	
28	1.24	0.80	2.24	1.44	3.06	1.94	4.83	3.03	5.98	3.71	6.79	4.85	7.85	
48	2.26	1.31	3.77	2.23	4.94	2.91	7.13	4.2	8.23	4.92				
60	2.68	1.61	4.45	2.66	5.65	3.41	7.84	4.73	9.04	5.43				
72		1.88		3.02		3.80		5.16						
96		2.37		3.65		4.46		5.73						
120		2.80		4.17		4.98		6.18						
140		3.12		4.52		5.33								
180		3.63		5.04		5.81								
200		3.88		5.29		6.02								

Note: 1. Pitch line velocities exceeding 1000 feet per minute are not recommended. They should be used for interpolation purposes only.

2. Non-metallic gears are most commonly used for the driving pinion of a pair of gears, with mating gear made of Cast Iron or Steel, where pitch line velocities exceed 1000 FPM and are not subjected to shock loads.



14½° Spur Gear Horsepower Ratings

12 D.P. — ¾" Face

No. Teeth	100 RPM		200 RPM		300 RPM		600 RPM		900 RPM		1200 RPM		1800 RPM	
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI
12	0.21		0.39		0.55		0.99		1.33		1.64		2.09	
18	0.38		0.71		1.01		1.73		2.28		2.70		3.32	
24	0.56		1.05		1.43		2.37		3.01		3.50		4.17	
36	0.88	0.53	1.57	0.95	2.13	1.28	3.33	2.01	4.09	2.46	4.62	2.46	5.31	3.21
48	1.16	0.70	2.02	1.22	2.70	1.62	3.99	2.41	4.76	2.88	4.76	3.19		
60	1.46	0.87	2.44	1.47	3.19	1.91	4.61	2.74	5.32	3.21				
72	1.71	1.04	2.84	1.72	3.60	2.18	5.00	3.03	5.76	3.49				
96		1.30		2.06		2.56		3.39						
120		1.54		2.37		2.90		3.68						
200		2.19		3.08		3.56								

16 D.P. — ½" Face

No. Teeth	100 RPM		200 RPM		300 RPM		600 RPM		900 RPM		1200 RPM		1800 RPM	
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI
12	0.08		0.14		0.21		0.40		0.53		0.66		0.87	
18	0.14		0.27		0.39		0.70		0.94		1.14		1.44	
24	0.21		0.39		0.56		0.96		1.26		1.50		1.84	
36	0.32	0.14	0.60	0.27	0.82	0.37	1.35	0.60	1.71	0.68	1.97	0.87	2.33	1.03
48	0.45		0.82		1.10		1.72		2.11		2.39		2.75	
60		0.34		0.60		0.80		1.20		1.44		1.60		
72		0.40		0.69		0.91		1.33		1.57				
80	0.76	0.45	1.26	0.75	1.65	0.99	2.38	1.43	2.75	1.64				
120		0.63		1.00		1.25		1.68						
160		0.78		1.21		1.48		1.78						
200		0.93		1.34		1.60		1.78						

20 D.P. — ¾" Face

No. Teeth	100 RPM		200 RPM		300 RPM		600 RPM		900 RPM		1200 RPM		1800 RPM	
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI
12	0.05		0.07		0.10		0.19		0.27		0.33		0.46	
18	0.07		0.13		0.19		0.35		0.48		0.59		0.76	
24	0.11		0.20		0.29		0.51		0.68		0.81		1.02	
48	0.22	0.14	0.43	0.26	0.58	0.35	0.93	0.56	1.16	0.70	1.34	0.81	1.55	0.94
60	0.28		0.50		0.67		1.06		1.29		1.47		1.69	
80		0.22		0.39		0.52		0.76		0.91		1.01		
96	0.46	0.26	0.76		0.99		1.44		1.66		1.70			
120		0.32		0.53		0.66		0.92		1.06				
160		0.40		0.64		0.79		1.05		1.16				
200		0.47		0.73		0.89		1.08		1.14				

24 D.P. — ¼" Face

No. Teeth	100 RPM		200 RPM		300 RPM		600 RPM		900 RPM		1200 RPM	
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI
12	0.017		0.033		0.049		0.092		0.131		0.165	
18	0.030		0.060		0.090		0.170		0.230		0.290	
24	0.047		0.091		0.132		0.236		0.321		0.391	
36	0.080		0.150		0.210		0.360		0.470		0.550	
48	0.105		0.197		0.275		0.455		0.583		0.679	
60	0.130		0.240		0.330		0.530		0.670		0.760	
96	0.210		0.360		0.480		0.710		0.850		0.940	
144	0.291		0.482		0.617		0.857		0.984			

Note: 1. Pitch line velocities exceeding 1000 feet per minute are not recommended. They should be used for interpolation purposes only.

2. Non-metallic gears are most commonly used for the driving pinion of a pair of gears, with mating gear made of Cast Iron or Steel, where pitch line velocities exceed 1000 FPM and are not subjected to shock loads.

4 DP 2" Face

Steel Stock Spur Gears 20° Pressure Angle



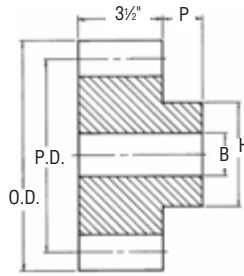
Type B
Plain With Hub
All Steel



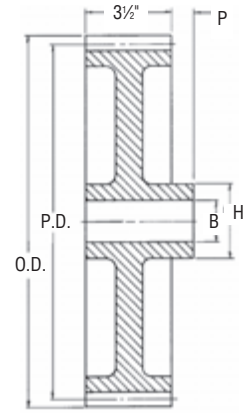
Type B₁
Web
All Steel



Type B₂
Web With
Lighten Holes
All Steel



Type B



Type B₁, B₂

Steel

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max. *	Diameter	Proj.	
12	TS412	20	3.000	3.500	B	1 $\frac{1}{8}$	1 $\frac{1}{16}$	2 $\frac{1}{4}$	$\frac{3}{8}$	6.8
14	TS414	20	3.500	4.000	B	1 $\frac{1}{8}$	1 $\frac{1}{8}$	2 $\frac{3}{4}$	$\frac{3}{8}$	9.8
15	TS415	20	3.750	4.250	B	1 $\frac{1}{8}$	1 $\frac{1}{8}$	3 $\frac{1}{4}$	$\frac{3}{8}$	11.5
16	TS416	20	4.000	4.500	B	1 $\frac{1}{8}$	2 $\frac{1}{8}$	3 $\frac{3}{4}$	$\frac{3}{8}$	13.3
18	TS418	20	4.500	5.000	B	1 $\frac{1}{8}$	2 $\frac{1}{4}$	3 $\frac{3}{4}$	$\frac{3}{8}$	17.3
20	TS420	20	5.000	5.500	B	1 $\frac{1}{8}$	2 $\frac{1}{4}$	4 $\frac{1}{4}$	$\frac{3}{8}$	21.8
22	TS422	20	5.500	6.000	B	1 $\frac{1}{8}$	3	4 $\frac{3}{4}$	$\frac{3}{8}$	26.7
24	TS424	20	6.000	6.500	B	1 $\frac{1}{8}$	3 $\frac{1}{2}$	5	1 $\frac{1}{4}$	33.7
28	TS428	20	7.000	7.500	B	1 $\frac{1}{8}$	3 $\frac{1}{2}$	5	1 $\frac{1}{4}$	43.8
30	TS430	20	7.500	8.000	B	1 $\frac{1}{8}$	3 $\frac{1}{2}$	5	1 $\frac{1}{4}$	49.4
32	TS432	20	8.000	8.500	B	1 $\frac{1}{8}$	3 $\frac{1}{2}$	5	1 $\frac{1}{4}$	56.8
36	TS436	20	9.000	9.500	B	1 $\frac{1}{8}$	3 $\frac{1}{2}$	5	1 $\frac{1}{4}$	70.0
40	TS440	20	10.000	10.500	B	1 $\frac{1}{8}$	3 $\frac{1}{2}$	5 $\frac{1}{2}$	1 $\frac{1}{2}$	85.2
44	TS444	20	11.000	11.500	B	1 $\frac{1}{8}$	3 $\frac{1}{2}$	5 $\frac{1}{2}$	1 $\frac{1}{2}$	101.6
48	TS448	20	12.000	12.500	B	1 $\frac{1}{8}$	3 $\frac{1}{2}$	5 $\frac{1}{2}$	1 $\frac{1}{2}$	119.5
56	TS456	20	14.000	14.500	B ₁	1 $\frac{1}{8}$	3 $\frac{1}{2}$	5 $\frac{1}{2}$	1 $\frac{1}{2}$	96.9
60	TS460	20	15.000	15.500	B ₂	1 $\frac{1}{8}$	3 $\frac{1}{2}$	5 $\frac{1}{2}$	1 $\frac{1}{2}$	88.1
64	TS464	20	16.000	16.500	B ₂	1 $\frac{1}{8}$	3 $\frac{1}{2}$	5 $\frac{1}{2}$	1 $\frac{1}{2}$	86.9
72	TS472	20	18.000	18.500	B ₂	1 $\frac{1}{8}$	3 $\frac{1}{2}$	5 $\frac{1}{2}$	1 $\frac{1}{2}$	86.5
80	TS480	20	20.000	20.500	B ₂	1 $\frac{1}{8}$	3 $\frac{1}{2}$	5 $\frac{1}{2}$	1 $\frac{1}{2}$	90.9

* Recommended maximum bore with keyway and set screw.

20° P.A. Gears Will Not Operate With 14 $\frac{1}{2}$ ° P.A.

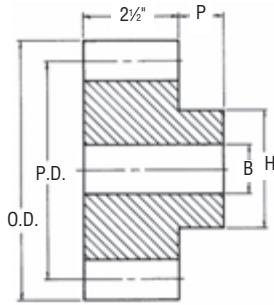


Steel Stock Spur Gears

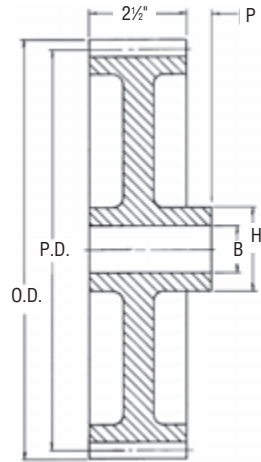
20° Pressure Angle

5 DP

2½" Face



Type B



Type B₂



Type B
Plain With Hub
All Steel



Type B₂
Web With Lighten Holes
All Steel

Steel

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max. *	Diameter	Proj.	
12	TS512	20	2.400	2.800	B	1½	1½	1½	¾	2.9
14	TS514	20	2.800	3.200	B	1½	1½	2½	¾	4.3
15	TS515	20	3.000	3.400	B	1½	1½	2½	¾	5.2
16	TS516	20	3.200	3.600	B	1½	1½	2½	¾	6.1
18	TS518	20	3.600	4.000	B	1½	1½	3	¾	8.0
20	TS520	20	4.000	4.400	B	1½	2¼	3½	¾	10.2
24	TS524	20	4.800	5.200	B	1½	2½	3½	1¼	15.7
25	TS525	20	5.000	5.400	B	1½	2½	3½	1¼	20.3
28	TS528	20	5.600	6.000	B	1½	2½	3½	1¼	22.9
30	TS530	20	6.000	6.400	B	1½	2½	3½	1¼	23.9
35	TS535	20	7.000	7.400	B	1½	2½	3½	1¼	29.9
40	TS540	20	8.000	8.400	B	1½	2½	3½	1¼	38.2
45	TS545	20	9.000	9.400	B	1½	2½	3½	1¼	47.7
50	TS550	20	10.000	10.400	B	1½	2¾	4½	1¼	60.3
60	TS560	20	12.000	12.400	B	1½	2¾	4½	1¼	84.7
70	TS570	20	14.000	14.400	B ₂	1¾	3½	5½	1¼	51.6
80	TS580	20	16.000	16.400	B ₂	1¾	3½	5½	1¼	55.8
90	TS590	20	18.000	18.400	B ₂	1¾	3½	5½	1¼	59.7
100	TS5100	20	20.000	20.400	B ₂	1¾	3½	5½	1½	69.2
110	TS5110	20	22.000	22.400	B ₂	1¾	3½	5½	1½	72.3
120	TS5120	20	24.000	24.400	B ₂	1¾	3½	6½	1½	80.2

* Recommended maximum bore with keyway and set screw.

20° P.A. Gears Will Not Operate With 14½° P.A.

6 DP 2" Face

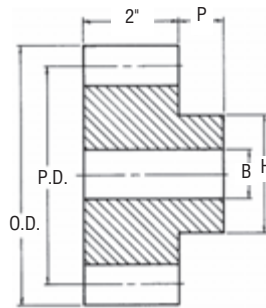
Steel Stock Spur Gears 20° Pressure Angle



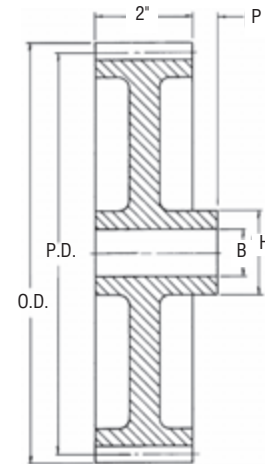
Type B
Plain With Hub
All Steel



Type B₂
Web With Lighten Holes
All Steel



Type B



Type B₂

Steel

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
11	TS611†	20	2.000	2.333	B	1	1	1½	¾	1.6
12	TS612	20	2.000	2.333	B	1	1	1½	¾	1.6
14	TS614	20	2.333	2.666	B	1	1	1⅝	¾	2.4
15	TS615	20	2.500	2.833	B	1	1¼	2	¾	2.9
16	TS616	20	2.666	3.000	B	1	1⅙	2½	¾	3.4
18	TS618	20	3.000	3.333	B	1	1½	2½	¾	4.6
21	TS621	20	3.500	3.833	B	1	1⅞	3	¾	6.6
24	TS624	20	4.000	4.333	B	1½	1⅞	3	¾	8.1
27	TS627	20	4.500	4.833	B	1½	2½	3½	¾	10.6
30	TS630	20	5.000	5.333	B	1½	2½	4	¾	13.4
33	TS633	20	5.500	5.833	B	1½	2½	4	1½	17.8
36	TS636	20	6.000	6.333	B	1½	2½	4	1½	20.4
42	TS642	20	7.000	7.333	B	1½	2½	4	1½	26.2
48	TS648	20	8.000	8.333	B	1½	2½	4	1½	32.8
54	TS654	20	9.000	9.333	B	1½	2½	4	1½	40.4
60	TS660	20	10.000	10.333	B	1½	2⅙	4½	1½	50.0
64	TS664	20	10.666	11.000	B	1½	2⅙	4½	1½	56.5
66	TS666	20	11.000	11.333	B	1½	2⅙	4½	1½	59.8
72	TS672	20	12.000	12.333	B	1½	2⅙	4½	1½	70.0
84	TS684	20	14.000	14.333	B ₂	1½	2⅙	5	1½	42.8
96	TS696	20	16.000	16.333	B ₂	1½	2⅙	5	1½	46.0
108	TS6108	20	18.000	18.333	B ₂	1½	2⅙	5	1½	48.8
120	TS6120	20	20.000	20.333	B ₂	1½	2⅙	5	1½	51.3

* Recommended maximum bore with keyway and set screw.

† Enlarged pitch diameter with special tooth form.

Bored-to-Size

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Set Screw	Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Keyway		Diameter	Proj.	
12	TS612BS 1	20	2.000	2.333	B	1	¼ × ¼	(1) 1/4-20 @90	1½	¾	1.60
14	TS614BS 1	20	2.333	2.667	B	1	¼ × ¼	(1) 5/16-18 @90	1⅝	¾	2.40
14	TS614BS 1-1/8	20	2.333	2.667	B	1½	¼ × ¼	(1) 5/16-18 @90	1⅝	¾	2.40
15	TS615BS 1	20	2.500	2.833	B	1	¼ × ¼	(1) 5/16-18 @90	2	¾	2.90
15	TS615BS 1-1/8	20	2.500	2.833	B	1½	¼ × ¼	(1) 5/16-18 @90	2	¾	2.90
15	TS615BS 1-3/16	20	2.500	2.833	B	1½	¼ × ¼	(1) 5/16-18 @90	2	¾	2.90
16	TS616BS 1	20	2.667	3.000	B	1	¼ × ¼	(1) 5/16-18 @90	2½	¾	3.40
16	TS616BS 1-1/8	20	2.667	3.000	B	1½	¼ × ¼	(1) 5/16-18 @90	2½	¾	3.40
16	TS616BS 1-3/16	20	2.667	3.000	B	1⅙	¼ × ¼	(1) 5/16-18 @90	2½	¾	3.40
16	TS616BS 1-1/4	20	2.667	3.000	B	1¼	¼ × ¼	(1) 5/16-18 @90	2½	¾	3.40
18	TS618BS 1	20	3.000	3.333	B	1	¼ × ¼	(1) 5/16-18 @90	2½	¾	4.60
18	TS618BS 1-1/8	20	3.000	3.333	B	1½	¼ × ¼	(1) 5/16-18 @90	2½	¾	4.60
18	TS618BS 1-3/16	20	3.000	3.333	B	1⅙	¼ × ¼	(1) 5/16-18 @90	2½	¾	4.60
18	TS618BS 1-1/4	20	3.000	3.333	B	1¼	¼ × ¼	(1) 5/16-18 @90	3	¾	4.60
21	TS621BS 1	20	3.500	3.833	B	1	¼ × ¼	(1) 5/16-18 @90	3	¾	6.60
21	TS621BS 1-1/8	20	3.500	3.833	B	1½	¼ × ¼	(1) 5/16-18 @90	3	¾	6.60
21	TS621BS 1-3/16	20	3.500	3.833	B	1⅙	¼ × ¼	(1) 5/16-18 @90	3	¾	6.60
21	TS621BS 1-1/4	20	3.500	3.833	B	1¼	¼ × ¼	(1) 5/16-18 @90	3	¾	6.60

20° P.A. Gears Will Not Operate With 14½° P.A.

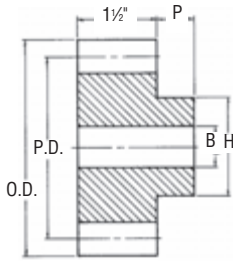


Steel & Cast Stock Spur Gears

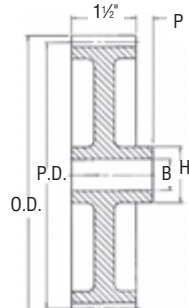
20° Pressure Angle

8 DP

1½" Face



Type B



Type B₂, B₃



Type B
Plain With Hub All Steel



Type B₃
Spoke Style Cast

Steel

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max. *	Diameter	Proj.	
12	TS812	20	1.500	1.750	B	¾	¾	1½	¾	0.7
14	TS814	20	1.750	2.000	B	¾	¾	1½	¾	1.0
15	TS815	20	1.875	2.125	B	¾	¾	1½	¾	1.2
16	TS816	20	2.000	2.250	B	¾	¾	1½	¾	1.4
18	TS818	20	2.250	2.500	B	¾	1½	1½	¾	1.9
19	TS819	20	2.375	2.625	B	¾	1½	2	¾	2.3
20	TS820	20	2.500	2.750	B	¾	1½	2½	¾	2.5
22	TS822	20	2.750	3.000	B	¾	1½	2½	¾	3.2
24	TS824	20	3.000	3.250	B	¾	1½	2½	¾	3.9
26	TS826	20	3.250	3.500	B	¾	1½	2½	¾	4.6
28	TS828	20	3.500	3.750	B	¾	1½	2½	¾	5.2
30	TS830	20	3.750	4.000	B	1	1½	2½	¾	5.6
32	TS832	20	4.000	4.250	B	1	1½	3½	¾	6.6
36	TS836	20	4.500	4.750	B	1	2½	3½	¾	8.6
40	TS840	20	5.000	5.250	B	1	2½	3½	¾	10.2
42	TS842	20	5.250	5.500	B	1	2½	3½	1	11.4
44	TS844	20	5.500	5.750	B	1	2½	3½	1	12.3
48	TS848	20	6.000	6.250	B	1	2½	3½	1	14.2

Cast

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max. *	Diameter	Proj.	
52	TC852	20	6.500	6.750	B	1	1½	3	1	11.9
56	TC856	20	7.000	7.250	B	1	1½	3	1	13.0
60	TC860	20	7.500	7.750	B ₂	1	1½	3	1	12.0
64	TC864	20	8.000	8.250	B ₃	1	1½	3	1	12.1
72	TC872	20	9.000	9.250	B ₃	1	2½	3½	1	14.4
80	TC880	20	10.000	10.250	B ₃	1½	2½	3½	1½	17.0
88	TC888	20	11.000	11.250	B ₃	1½	2½	3½	1½	19.0
96	TC896	20	12.000	12.250	B ₃	1½	2½	3½	1½	23.7
112	TC8112	20	14.000	14.250	B ₃	1½	2½	3½	1½	25.0
120	TC8120	20	15.000	15.250	B ₃	1½	2½	3½	1½	25.8
128	TC8128	20	16.000	16.250	B ₃	1½	2½	3½	1½	28.0
144	TC8144	20	18.000	18.250	B ₃	1½	2½	3½	1½	32.0
160	TC8160	20	20.000	20.250	B ₃	1½	2½	3½	1½	34.8

Bored-to-Size

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Set Screw	Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Keyway		Diameter	Proj.	
12	TS812BS 3/4	20	1.500	1.750	B	¾	¾ × ¾ ₃₂	(1) 10-24 @ 90	1½	¾	0.70
14	TS814BS 3/4	20	1.750	2.000	B	¾	¾ × ¾ ₃₂	(1) 1/4-20 @ 90	1½	¾	1.00
15	TS815BS 3/4	20	1.875	2.125	B	¾	¾ × ¾ ₃₂	(1) 1/4-20 @ 90	1½	¾	1.20
15	TS815BS 7/8	20	1.875	2.125	B	¾	¾ × ¾ ₃₂	(1) 1/4-20 @ 90	1½	¾	1.20
16	TS816BS 7/8	20	2.000	2.250	B	¾	¾ × ¾ ₃₂	(1) 1/4-20 @ 90	1½	¾	1.40
16	TS816BS 1	20	2.000	2.250	B	1	¾ × ¾	(1) 5/16-18 @ 90	1½	¾	1.40
18	TS818BS 7/8	20	2.250	2.500	B	¾	¾ × ¾ ₃₂	(1) 1/4-20 @ 90	1½	¾	1.90
18	TS818BS 1	20	2.250	2.500	B	1	¾ × ¾	(1) 5/16-18 @ 90	1½	¾	1.90
18	TS818BS 1-1/8	20	2.250	2.500	B	1½	¾ × ¾	(1) 5/16-18 @ 90	1½	¾	1.90
20	TS820BS 7/8	20	2.500	2.750	B	¾	¾ × ¾ ₃₂	(1) 1/4-20 @ 90	2½	¾	2.50
20	TS820BS 1	20	2.500	2.750	B	1	¾ × ¾	(1) 5/16-18 @ 90	2½	¾	2.50
20	TS820BS 1-1/8	20	2.500	2.750	B	1½	¾ × ¾	(1) 5/16-18 @ 90	2½	¾	2.50
22	TS822BS 7/8	20	2.750	3.000	B	¾	¾ × ¾ ₃₂	(1) 1/4-20 @ 90	2½	¾	3.20
22	TS822BS 1	20	2.750	3.000	B	1	¾ × ¾	(1) 5/16-18 @ 90	2½	¾	3.20
22	TS822BS 1-1/8	20	2.750	3.000	B	1½	¾ × ¾	(1) 5/16-18 @ 90	2½	¾	3.20
24	TS824BS 7/8	20	3.000	3.250	B	¾	¾ × ¾ ₃₂	(1) 1/4-20 @ 90	2½	¾	3.90
24	TS824BS 1	20	3.000	3.250	B	1	¾ × ¾	(1) 5/16-18 @ 90	2½	¾	3.90
24	TS824BS 1-1/8	20	3.000	3.250	B	1½	¾ × ¾	(1) 5/16-18 @ 90	2½	¾	3.90

* Recommended maximum bore with keyway and set screw.

20° P.A. Gears Will Not Operate With 14½° P.A.

10 DP

1 1/4" Face

Steel & Cast Stock Spur Gears

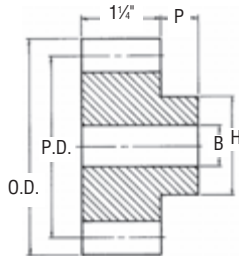
20° Pressure Angle



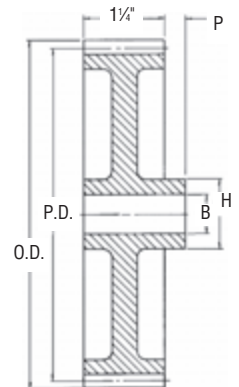
Type B
Plain With Hub
All Steel



Type B₃
Spoke Style
Cast



Type B



Type B₃

Steel

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
12	TS1012	20	1.200	1.400	B	3/8	3/8	29/32	3/8	0.4
14	TS1014	20	1.400	1.600	B	3/8	3/8	13/16	3/8	0.6
15	TS1015	20	1.500	1.700	B	3/8	3/8	13/16	3/8	0.6
16	TS1016	20	1.600	1.800	B	3/8	3/8	13/16	3/8	0.7
18	TS1018	20	1.800	2.000	B	3/8	13/16	11/16	3/8	0.9
20	TS1020	20	2.000	2.200	B	3/8	13/16	13/16	3/8	1.2
22	TS1022	20	2.200	2.400	B	7/8	13/16	13/16	3/8	1.5
24	TS1024	20	2.400	2.600	B	7/8	13/16	21/16	3/8	1.8
25	TS1025	20	2.500	2.700	B	7/8	13/16	21/16	3/8	2.0
26	TS1026	20	2.600	2.800	B	7/8	13/16	21/16	3/8	2.2
28	TS1028	20	2.800	3.000	B	7/8	13/16	21/16	3/8	2.7
30	TS1030	20	3.000	3.200	B	7/8	13/16	21/16	3/8	3.4
32	TS1032	20	3.200	3.400	B	7/8	13/16	21/16	3/8	3.7
35	TS1035	20	3.500	3.700	B	1	13/16	21/16	3/8	4.2
36	TS1036	20	3.600	3.800	B	1	13/16	21/16	3/8	4.3
40	TS1040	20	4.000	4.200	B	1	21/16	31/16	3/8	6.4
45	TS1045	20	4.500	4.700	B	1	21/16	31/16	3/8	7.5
48	TS1048	20	4.800	5.000	B	1	21/16	31/16	3/8	8.7
50	TS1050	20	5.000	5.200	B	1	21/16	4	3/8	9.6
55	TS1055	20	5.500	5.700	B	1	21/16	4	1	11.5
60	TS1060	20	6.000	6.200	B	1	21/16	4	1	13.1

Cast

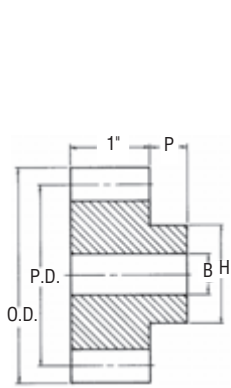
No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
70	TC1070	20	7.000	7.200	B ₃	1	11/16	23/16	1	8.2
80	TC1080	20	8.000	8.200	B ₃	1	11/16	23/16	1	11.2
90	TC1090	20	9.000	9.200	B ₃	1	11/16	3	1	11.7
100	TC10100	20	10.000	10.200	B ₃	1	11/16	3	13/16	12.2

* Recommended maximum bore with keyway and set screw.

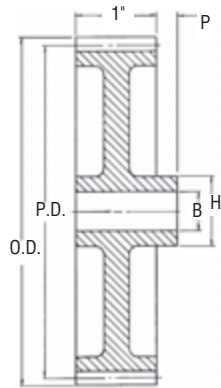
Bored-to-Size

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Set Screw	Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Keyway		Diameter	Proj.	
12	TS1012BS 5/8	20	1.200	1.400	B	3/8	3/8 x 3/32	(1) 10-24 @ 90	29/32	3/8	0.40
14	TS1014BS 5/8	20	1.400	1.600	B	3/8	3/8 x 3/32	(1) 1/4-20 @ 90	13/16	3/8	0.60
15	TS1015BS 3/4	20	1.500	1.700	B	3/4	3/4 x 3/32	(1) 1/4-20 @ 90	13/16	3/8	0.60
16	TS1016BS 3/4	20	1.600	1.800	B	3/4	3/4 x 3/32	(1) 1/4-20 @ 90	13/16	3/8	0.70
18	TS1018BS 3/4	20	1.800	2.000	B	3/4	3/4 x 3/32	(1) 1/4-20 @ 90	11/16	3/8	0.88
18	TS1018BS 7/8	20	1.800	2.000	B	7/8	3/8 x 3/32	(1) 1/4-20 @ 90	11/16	3/8	0.90
20	TS1020BS 7/8	20	2.000	2.200	B	7/8	3/8 x 3/32	(1) 1/4-20 @ 90	13/16	3/8	1.20
20	TS1020BS 1	20	2.000	2.200	B	1	1/2 x 1/8	(1) 5/16-18 @ 90	13/16	3/8	1.20
24	TS1024BS 7/8	20	2.400	2.600	B	7/8	3/8 x 3/32	(1) 1/4-20 @ 90	13/16	3/8	1.50
24	TS1024BS 1	20	2.400	2.600	B	1	1/2 x 1/8	(1) 5/16-18 @ 90	13/16	3/8	1.50
25	TS1025BS 7/8	20	2.500	2.700	B	7/8	3/8 x 3/32	(1) 1/4-20 @ 90	21/16	3/8	2.00
25	TS1025BS 1	20	2.500	2.700	B	1	1/2 x 1/8	(1) 5/16-18 @ 90	21/16	3/8	2.00
28	TS1028BS 7/8	20	2.800	3.000	B	7/8	3/8 x 3/32	(1) 1/4-20 @ 90	21/16	3/8	2.70
28	TS1028BS 1	20	2.800	3.000	B	1	1/2 x 1/8	(1) 5/16-18 @ 90	21/16	3/8	2.70

20° P.A. Gears Will Not Operate With 14 1/2° P.A.



Type B



Type B₃



Type B
Plain With Hub



Type B₃
Spoke Style

Steel

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max. *	Diameter	Proj.	
12	TS1212	20	1.000	1.167	B	1/2	1/2	3/4	5/8	0.21
13	TS1213	20	1.083	1.250	B	5/8	5/8	13/16	5/8	0.21
14	TS1214	20	1.167	1.333	B	5/8	5/8	7/8	5/8	0.28
15	TS1215	20	1.250	1.417	B	5/8	5/8	15/16	5/8	0.34
16	TS1216	20	1.333	1.500	B	5/8	5/8	1 1/16	5/8	0.41
18	TS1218	20	1.500	1.667	B	3/4	3/4	1 1/4	5/8	0.51
19	TS1219	20	1.583	1.750	B	3/4	3/4	1 1/8	5/8	0.59
20	TS1220	20	1.667	1.833	B	3/4	3/4	1 1/8	5/8	0.65
21	TS1221	20	1.750	1.917	B	3/4	13/16	1 3/4	5/8	0.75
22	TS1222	20	1.833	2.000	B	3/4	7/8	1 1/8	5/8	0.88
24	TS1224	20	2.000	2.166	B	3/4	15/16	1 1/4	5/8	1.06
25	TS1225	20	2.083	2.250	B	3/4	1 1/16	1 13/16	5/8	1.22
26	TS1226	20	2.167	2.333	B	3/4	1 1/8	1 1/8	5/8	1.33
28	TS1228	20	2.333	2.500	B	3/4	1 1/4	2 1/16	5/8	1.60
30	TS1230	20	2.500	2.667	B	3/4	1 1/2	2 5/16	5/8	1.83
32	TS1232	20	2.667	2.833	B	3/4	1 1/2	2 1/4	5/8	2.08
36	TS1236	20	3.000	3.167	B	3/4	1 3/4	2 1/2	7/8	2.98
42	TS1242	20	3.500	3.666	B	3/4	1 7/8	2 1/2	7/8	3.71
48	TS1248	20	4.000	4.166	B	7/8	1 7/8	3	7/8	4.99
54	TS1254	20	4.500	4.666	B	7/8	2	3 1/2	7/8	6.57
60	TS1260	20	5.000	5.166	B	7/8	2 1/8	3 1/2	7/8	7.63
66	TS1266	20	5.500	5.666	B	7/8	2 1/8	3 1/2	7/8	8.80
72	TS1272	20	6.000	6.166	B	7/8	2 1/8	3 1/2	7/8	10.08

Cast

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max. *	Diameter	Proj.	
84	TC1284	20	7.000	7.166	B ₃	7/8	1 1/16	2 1/2	7/8	5.9
96	TC1296	20	8.000	8.166	B ₃	7/8	1 1/8	2 1/2	7/8	7.0
108	TC12108	20	9.000	9.166	B ₃	7/8	1 1/8	2 1/2	7/8	7.6
120	TC12120	20	10.000	10.166	B ₃	1	1 1/8	2 1/2	7/8	10.3
144	TC12144	20	12.000	12.166	B ₃	1	1 1/8	2 1/2	1	10.4

Bored-to-Size

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Set Screw	Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Keyway		Diameter	Proj.	
12	TS1212BS 1/2	20	1.000	1.167	B	1/2	NONE	(1) 10-24	3/4	5/8	0.21
13	TS1213BS 5/8	20	1.083	1.250	B	5/8	NONE	(1) 1/4-20 @ 90	13/16	5/8	0.21
14	TS1214BS 5/8	20	1.167	1.333	B	5/8	3/16 x 3/32	(1) 10-24 @ 90	7/8	5/8	0.28
15	TS1215BS 5/8	20	1.250	1.417	B	5/8	3/16 x 3/32	(1) 10-24 @ 90	15/16	5/8	0.34
16	TS1216BS 5/8	20	1.333	1.500	B	5/8	3/16 x 3/32	(1) 1/4-20 @ 90	1 1/16	5/8	0.41
18	TS1218BS 3/4	20	1.500	1.667	B	3/4	3/16 x 3/32	(1) 1/4-20 @ 90	1 1/4	5/8	0.51
20	TS1220BS 3/4	20	1.667	1.833	B	3/4	3/16 x 3/32	(1) 1/4-20 @ 90	1 1/8	5/8	0.65
21	TS1221BS 3/4	20	1.750	1.917	B	3/4	3/16 x 3/32	(1) 1/4-20 @ 90	1 5/16	5/8	0.75
21	TS1221BS 7/8	20	1.750	1.917	B	7/8	3/16 x 3/32	(1) 1/4-20 @ 90	1 5/8	5/8	0.75
24	TS1224BS 3/4	20	2.000	2.167	B	3/4	3/16 x 3/32	(1) 1/4-20 @ 90	1 41/64	5/8	1.06
24	TS1224BS 7/8	20	2.000	2.167	B	7/8	3/16 x 3/32	(1) 1/4-20 @ 90	1 41/64	5/8	1.06
24	TS1224BS 1	20	2.000	2.167	B	1	1/4 x 1/8	(1) 5/16-18 @ 90	1 41/64	5/8	1.06
28	TS1228BS 3/4	20	2.333	2.500	B	3/4	3/16 x 3/32	(1) 1/4-20 @ 90	2 1/16	5/8	1.60
28	TS1228BS 7/8	20	2.333	2.500	B	7/8	3/16 x 3/32	(1) 1/4-20 @ 90	2 1/16	5/8	1.60
28	TS1228BS 1	20	2.333	2.500	B	1	1/4 x 1/8	(1) 5/16-18 @ 90	2 1/16	5/8	1.60

* Recommended maximum bore with keyway and set screw.

20° P.A. Gears Will Not Operate With 14 1/2° P.A.

16 DP

3/4" Face

Steel & Cast Stock Spur Gears

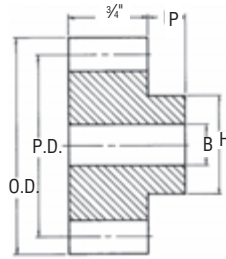
20° Pressure Angle



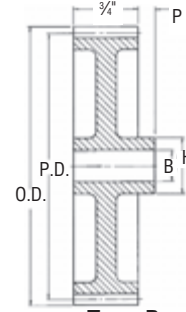
Type B
Plain With Hub



Type B₃
Spoke Style



Type B



Type B₃

Steel

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max. *	Diameter	Proj.	
12	TS1612	20	0.750	0.875	B	3/8	3/8	9/16	1/2	0.09
13	TS1613	20	0.812	0.938	B	3/8	3/8	3/8	1/2	0.11
14	TS1614	20	0.875	1.000	B	3/8	3/8	1/4	1/2	0.14
15	TS1615	20	0.937	1.063	B	3/8	1/2	3/4	1/2	0.17
16	TS1616	20	1.000	1.125	B	1/2	1/2	1/4	1/2	0.17
17	TS1617	20	1.062	1.188	B	1/2	1/2	3/8	1/2	0.20
18	TS1618	20	1.125	1.250	B	1/2	1/2	1/4	1/2	0.24
20	TS1620	20	1.250	1.375	B	3/4	3/4	1/4	1/2	0.28
21	TS1621	20	1.312	1.438	B	3/4	5/8	1/8	1/2	0.32
22	TS1622	20	1.375	1.500	B	3/4	3/4	1/4	1/2	0.36
24	TS1624	20	1.500	1.625	B	3/4	3/4	1/4	1/2	0.46
26	TS1626	20	1.625	1.750	B	3/4	7/8	1/4	1/2	0.56
28	TS1628	20	1.750	1.875	B	3/4	7/8	1/2	1/2	0.65
30	TS1630	20	1.875	2.000	B	3/4	1/4	1/4	1/2	0.77
32	TS1632	20	2.000	2.125	B	3/4	1	1/4	1/2	0.90
36	TS1636	20	2.250	2.375	B	3/4	1 1/4	2	1/2	1.18
40	TS1640	20	2.500	2.625	B	3/4	1 1/4	2	3/8	1.48
48	TS1648	20	3.000	3.125	B	3/4	1 1/4	2	3/8	1.94
56	TS1656	20	3.500	3.625	B	3/4	1 1/2	2 1/2	3/8	2.79
60	TS1660	20	3.750	3.875	B	3/4	1 1/2	2 1/4	3/8	3.28
64	TS1664	20	4.000	4.125	B	3/4	1 1/2	2 3/4	3/4	3.74
72	TS1672	20	4.500	4.625	B	3/4	1 3/4	3	3/4	4.69
80	TS1680	20	5.000	5.125	B	3/4	2 1/2	3 1/2	3/4	6.03
84	TS1684	20	5.250	5.375	B	3/4	2 1/2	3 1/2	3/4	6.46
96	TS1696	20	6.000	6.125	B	3/4	2 1/2	3 1/2	3/4	7.86
104	TS16104	20	6.500	6.625	B	3/4	2 1/2	3 1/2	3/4	8.91

Cast

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max. *	Diameter	Proj.	
112	TC16112	20	7.000	7.125	B ₃	3/4	1 1/16	2 1/2	3/4	4.4
128	TC16128	20	8.000	8.125	B ₃	3/4	1 1/16	2 3/4	3/4	5.5
144	TC16144	20	9.000	9.125	B ₃	3/4	1 1/16	2 3/4	3/4	6.4
160	TC16160	20	10.000	10.125	B ₃	3/4	1 1/16	2 3/4	3/4	8.1
192	TC16192	20	12.000	12.125	B ₃	3/4	1 1/16	3	1	10.1

* Recommended maximum bore with keyway and set screw.

20° P.A. Gears Will Not Operate With 14 1/2° P.A.

Bored-to-Size

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Set Screw	Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Keyway		Diameter	Proj.	
12	TS1612BS 3/8	20	0.750	0.875	B	3/8	NONE	(1) 8-32	9/16	1/2	0.09
14	TS1614BS 3/8	20	0.875	1.000	B	3/8	NONE	(1) 10-24	1/4	1/2	0.14
15	TS1615BS 3/8	20	0.937	1.063	B	3/8	NONE	(1) 10-24	3/4	1/2	0.17
15	TS1615BS 1/2	20	0.937	1.063	B	1/2	NONE	(1) 10-24	3/4	1/2	0.17
16	TS1616BS 1/2	20	1.000	1.125	B	1/2	NONE	(1) 10-24	1/4	1/2	0.17
18	TS1618BS 1/2	20	1.125	1.250	B	1/2	NONE	(1) 1/4-20	1/4	1/2	0.24
20	TS1620BS 5/8	20	1.250	1.375	B	3/8	3/16 x 3/32	(1) 1/4-20 @ 90	1/4	1/2	0.28
24	TS1624BS 5/8	20	1.500	1.625	B	3/8	3/16 x 3/32	(1) 1/4-20 @ 90	1/4	1/2	0.46
24	TS1624BS 3/4	20	1.500	1.625	B	3/4	3/16 x 3/32	(1) 1/4-20 @ 90	1/4	1/2	0.46
28	TS1628BS 5/8	20	1.750	1.875	B	3/8	3/16 x 3/32	(1) 1/4-20 @ 90	1/2	1/2	0.65
28	TS1628BS 3/4	20	1.750	1.875	B	3/4	3/16 x 3/32	(1) 1/4-20 @ 90	1/2	1/2	0.65
30	TS1630BS 5/8	20	1.875	2.000	B	3/8	3/16 x 3/32	(1) 1/4-20 @ 90	1/4	1/2	0.77
30	TS1630BS 3/4	20	1.875	2.000	B	3/4	3/16 x 3/32	(1) 1/4-20 @ 90	1/4	1/2	0.77
30	TS1630BS 7/8	20	1.875	2.000	B	7/8	3/16 x 3/32	(1) 1/4-20 @ 90	1/4	1/2	0.77
32	TS1632BS 5/8	20	2.000	2.125	B	3/8	3/16 x 3/32	(1) 1/4-20 @ 90	1/4	1/2	0.90
32	TS1632BS 3/4	20	2.000	2.125	B	3/4	3/16 x 3/32	(1) 1/4-20 @ 90	1/4	1/2	0.90
32	TS1632BS 7/8	20	2.000	2.125	B	7/8	3/16 x 3/32	(1) 1/4-20 @ 90	1/4	1/2	0.90
32	TS1632BS 1	20	2.000	2.125	B	1	1/4 x 1/4	(1) 5/16-18 @ 90	1/4	1/2	0.90

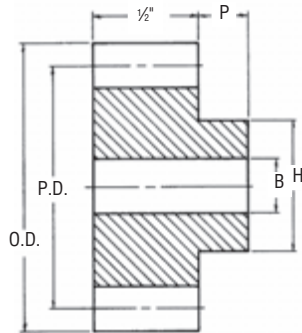


Steel Stock Spur Gears

20° Pressure Angle

20 DP

1/2" Face



Type B



Type B
Plain With Hub

Steel

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max. *	Diameter	Proj.	
12	TS2012	20	0.600	0.700	B	5/16	5/16	15/64	7/16	0.04
14	TS2014	20	0.700	0.800	B	5/16	5/16	3/64	7/16	0.06
15	TS2015	20	0.750	0.850	B	3/8	3/8	39/64	7/16	0.07
16	TS2016	20	0.800	0.900	B	3/8	3/8	21/32	7/16	0.08
18	TS2018	20	0.900	1.000	B	3/8	3/8	3/4	7/16	0.12
20	TS2020	20	1.000	1.100	B	1/2	1/2	59/64	7/16	0.13
21	TS2021	20	1.050	1.150	B	1/2	1/2	7/8	7/16	0.15
22	TS2022	20	1.100	1.200	B	1/2	1/2	31/32	7/16	0.17
24	TS2024	20	1.200	1.300	B	1/2	5/16	11/16	7/16	0.22
25	TS2025	20	1.250	1.350	B	1/2	5/16	13/64	7/16	0.24
28	TS2028	20	1.400	1.500	B	1/2	11/16	11/64	7/16	0.32
30	TS2030	20	1.500	1.600	B	1/2	13/16	129/64	7/16	0.38
32	TS2032	20	1.600	1.700	B	1/2	7/8	11/16	1/2	0.46
35	TS2035	20	1.750	1.850	B	1/2	7/8	11/16	1/2	0.56
36	TS2036	20	1.800	1.900	B	1/2	5/8	11/16	1/2	0.60
40	TS2040	20	2.000	2.100	B	1/2	11/16	119/64	1/2	0.76
45	TS2045	20	2.250	2.350	B	1/2	11/16	2	1/2	0.95
50	TS2050	20	2.500	2.600	B	1/2	11/16	2	1/2	1.08
60	TS2060	20	3.000	3.100	B	1/2	13/16	21/8	1/2	1.45
70	TS2070	20	3.500	3.600	B	1/2	13/16	23/8	1/2	1.93
72	TS2072	20	3.600	3.700	B	1/2	13/16	23/8	1/2	2.01
80	TS2080	20	4.000	4.100	B	5/8	11/8	21/4	5/8	2.35
84	TS2084	20	4.200	4.300	B	5/8	11/8	21/4	5/8	2.53
90	TS2090	20	4.500	4.600	B	5/8	11/8	21/4	5/8	2.82
96	TS2096	20	4.800	4.900	B	5/8	11/8	21/4	5/8	3.14
100	TS20100	20	5.000	5.100	B	5/8	11/8	21/4	5/8	3.35
120	TS20120	20	6.000	6.100	B	5/8	11/8	21/4	5/8	4.58

* Recommended maximum bore with keyway and set screw.

20° P.A. Gears Will Not Operate With 14 1/2° P.A.

Bored-to-Size

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Set Screw	Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Keyway		Diameter	Proj.	
12	TS2012BS 5/16	20	0.600	0.700	B	5/16	NONE	#35 P.H.	15/64	7/16	0.04
14	TS2014BS 5/16	20	0.700	0.800	B	5/16	NONE	#35 P.H.	35/64	7/16	0.06
15	TS2015BS 3/8	20	0.750	0.850	B	3/8	NONE	(1) 8-32	39/64	7/16	0.07
16	TS2016BS 3/8	20	0.800	0.900	B	3/8	NONE	(1) 8-32	21/32	7/16	0.08
18	TS2018BS 3/8	20	0.900	1.000	B	3/8	NONE	(1) 10-24	3/4	7/16	0.12
20	TS2020BS 1/2	20	1.000	1.100	B	1/2	NONE	(1) 10-24	59/64	7/16	0.13
24	TS2024BS 1/2	20	1.200	1.300	B	1/2	NONE	(1) 1/4-20	11/16	7/16	0.22
25	TS2025BS 1/2	20	1.250	1.350	B	1/2	NONE	(1) 1/4-20	13/64	7/16	0.24
30	TS2030BS 1/2	20	1.500	1.600	B	1/2	NONE	(1) 1/4-20	129/64	7/16	0.38
35	TS2035BS 1/2	20	1.750	1.850	B	1/2	NONE	(1) 1/4-20	119/64	1/2	0.56
40	TS2040BS 1/2	20	2.000	2.100	B	1/2	NONE	(1) 1/4-20	119/64	1/2	0.76
40	TS2040BS 5/8	20	2.000	2.100	B	5/8	5/16 x 3/32	(1) 1/4-20 @ 90	119/64	1/2	0.76
40	TS2040BS 3/4	20	2.000	2.100	B	3/4	3/16 x 3/32	(1) 1/4-20 @ 90	119/64	1/2	0.76

20° Horsepower Ratings (Approximate)



For
Class I Service (Service Factor = 1.0)

4 Diametral Pitch

20° Pressure Angle

3½" Face

No. Teeth	25 RPM		50 RPM		100 RPM		200 RPM		300 RPM		500 RPM		600 RPM		900 RPM		1200 RPM		1800 RPM	
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI
11	2.62		5.09		9.64		17.41		23.81		33.72		37.64		46.69		53.06			
12•	3.10		6.02		11.40		20.59		28.15		39.88		44.52		55.21		62.75			
13	3.62		7.03		13.30		24.03		32.86		46.55		51.97		64.45		73.25			
14•	4.07		7.91		14.98		27.06		37.00		52.41		58.51		72.57		82.48			
15•	4.57		8.88		16.80		30.35		41.51		58.80		65.64		81.41		92.53			
16•	4.97		9.67		18.30		33.05		45.20		64.03		71.47		88.64		100.75			
17	5.41		10.51		19.90		35.95		49.16		69.64		77.74		96.42					
18•	5.84		11.35		21.49		38.82		53.09		75.20		83.95		104.12					
19	6.29		12.22		23.13		41.77		57.13		80.93		90.33		112.04					
20•	6.74		13.11		24.81		44.81		61.29		86.81		96.91							
21	7.19		13.98		26.46		47.79		65.36		92.58		103.34							
22•	7.65		14.87		28.14		50.83		69.52		98.48		109.93							
24•	8.52		16.56		31.35		56.63		77.45		109.71		122.47							
25	8.96		17.41		32.95		59.52		81.39		115.30		128.70							
26	9.43		18.32		34.67		62.63		85.65		121.32		135.43							
27	9.90		19.24		36.42		65.79		89.97		127.45		142.27							
28•	10.39		20.18		38.21		69.01		94.38		133.69		149.24							
30•	11.32		22.00		41.63		75.20		102.84		145.69									
32•	12.27		23.85		45.15		81.56		111.54		158.00									
33	12.76		24.80		46.95		84.80		115.97		164.28									
35	13.79		26.81		50.74		91.66		125.35		177.56									
36•	14.30		27.79		52.61		95.03		129.96		184.10									
40•	16.40		31.87		60.32		108.95		149.00											
42	17.39		33.80		63.98		115.58		158.06											
44•	18.41		35.77		67.71		122.31		167.27											
45	18.92		36.77		69.60		125.72		171.93											
48•	20.54		39.91		75.54		136.46		186.61											
50	21.50		41.78		79.08		142.84		195.35											
52	22.52		43.77		82.85		149.65		204.66											
54	23.56		45.78		86.66		156.54		214.08											
55	24.00		46.63		88.26		159.44		218.04											
56•	24.49		47.59		90.09		162.73													
60•	26.62		51.73		97.92		176.87													
64•	28.60		55.57		105.19		190.01													
66	29.63		57.58		108.99		196.87													
70	31.65		61.50		116.41		210.27													
72•	32.55		63.26		119.73		216.28													
80•	36.76		71.43		135.21		244.23													
84	38.86		75.52		142.94		258.21													
88	40.80		79.30		150.09															
90	41.83		81.28		153.85															
96	44.92		87.29		165.23															
100	46.90		91.13		172.50															
108	50.87		98.87		187.14															
110	51.93		100.92		191.03															
112	52.88		102.76		194.50															
120	57.03		110.84		209.79															
144	54.18		105.28		199.28															
160	77.39		150.40		284.68															
200	97.58		189.64		358.95															

Ratings are based on strength calculation.

• Designates stock sizes for this pitch.

Note: 1. Ratings to right of heavy line are not recommended, as pitch line velocity exceeds 1000 feet per minute. They should be used for interpolation purposes only.

2. Non-metallic gears are most commonly used for the driving pinion of a pair of gears, with mating gear made of Cast Iron or Steel, where pitch line velocities exceed 1000 FPM and are not subjected to shock loads.



20° Horsepower Ratings (Approximate)

For
Class I Service (Service Factor = 1.0)

5 Diametral Pitch

20° Pressure Angle

2½" Face

No. Teeth	25 RPM		50 RPM		100 RPM		200 RPM		300 RPM		500 RPM		600 RPM		900 RPM		1200 RPM		1800 RPM	
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI
11•	1.20		2.35		4.50		8.28		11.49		16.67		18.78		23.82		27.50		32.54	
12	1.42		2.78		5.32		9.79		13.59		19.71		22.21		28.17		32.53			
13•	1.66		3.25		6.21		11.43		15.86		23.01		25.93		32.88		37.97			
14•	1.87		3.66		7.00		12.87		17.86		25.90		29.19		37.02		42.75			
15•	2.10		4.10		7.85		14.44		20.04		29.06		32.75		41.53		47.96			
16	2.29		4.47		8.55		15.72		21.82		31.64		35.66		45.22		52.22			
17•	2.49		4.86		9.30		17.10		23.73		34.42		38.79		49.19		56.80			
18	2.69		5.25		10.04		18.46		25.63		37.17		41.88		53.11		61.34			
19•	2.89		5.65		10.80		19.87		27.58		40.00		45.07		57.16		66.01			
20	3.10		6.06		11.59		21.31		29.58		42.91		48.35		61.31					
21	3.31		6.46		12.36		22.73		31.55		45.76		51.56		65.39					
22•	3.52		6.87		13.15		24.18		33.56		48.67		54.85		69.55					
24•	3.92		7.66		14.65		26.93		37.39		54.22		61.10		77.49					
25	4.12		8.05		15.39		28.30		39.29		56.98		64.21		81.43					
26	4.33		8.47		16.20		29.78		41.34		59.96		67.57							
27•	4.55		8.90		17.02		31.29		43.43		62.99		70.98							
28•	4.78		9.33		17.85		32.82		45.56		66.08		74.46							
30	5.20		10.17		19.45		35.76		49.64		72.00		81.14							
32	5.64		11.03		21.09		38.79		53.84		78.09		88.00							
33•	5.87		11.47		21.93		40.33		55.98		81.19		91.49							
35	6.34		12.40		23.70		43.59		60.51		87.76		98.89							
36•	6.58		12.85		24.58		45.19		62.73		90.99									
40	7.54		14.73		28.18		51.81		71.92		104.32									
42	8.00		15.63		29.89		54.96		76.30		110.66									
44•	8.46		16.54		31.63		58.17		80.74		117.11									
45	8.70		17.00		32.51		59.79		82.99											
48•	9.44		18.45		35.29		64.89		90.08											
50	9.89		19.32		36.94		67.93		94.30											
52	10.36		20.24		38.70		71.17		98.79											
54	10.83		21.17		40.48		74.44		103.34											
55	11.03		21.56		41.23		75.82		105.25											
56•	11.26		22.01		42.08		77.39		107.42											
60	12.24		23.92		45.74		84.11		116.76											
64	13.15		25.70		49.14		90.36		125.43											
66•	13.62		26.62		50.91		93.62		129.96											
70	14.55		28.44		54.38		100.00		138.81											
72•	14.97		29.25		55.93		102.85													
80	16.90		33.03		63.16		116.15													
84	17.87		34.92		66.78		122.79													
88•	18.76		36.67		70.12		128.93													
90	19.23		37.58		71.87		132.16													
96•	20.65		40.36		77.19		141.93													
100	21.56		42.14		80.58															
108•	23.39		45.71		87.42															
110	23.88		46.67		89.24															
112•	24.31		47.51																	
120	26.23		51.25																	
144	24.91		48.68																	
160	35.59		69.54																	
200	44.87		87.69																	

Ratings are based on strength calculation.

• Designates stock sizes for this pitch.

Note: 1. Ratings to right of heavy line are not recommended, as pitch line velocity exceeds 1000 feet per minute. They should be used for interpolation purposes only.

2. Non-metallic gears are most commonly used for the driving pinion of a pair of gears, with mating gear made of Cast Iron or Steel, where pitch line velocities exceed 1000 FPM and are not subjected to shock loads.

20° Horsepower Ratings (Approximate)



For
Class I Service (Service Factor = 1.0)

6 Diametral Pitch

20° Pressure Angle

2" Face

No. Teeth	25 RPM		50 RPM		100 RPM		200 RPM		300 RPM		500 RPM		600 RPM		900 RPM		1200 RPM		1800 RPM	
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI
11•	0.67		1.32		2.54		4.73		6.63		9.79		11.11		14.34		16.78		20.21	
12•	0.79		1.56		3.00		5.59		7.84		11.58		13.14		16.96		19.84		23.91	
13	0.93		1.82		3.50		6.52		9.15		13.51		15.34		19.80		23.16		27.91	
14•	1.04		2.05		3.94		7.35		10.31		15.21		17.27		22.29		26.08		31.42	
15•	1.17		2.30		4.43		8.24		11.56		17.07		19.37		25.01		29.26		35.25	
16•	1.28		2.50		4.82		8.97		12.59		18.58		21.10		27.23		31.85		38.38	
17	1.39		2.72		5.24		9.76		13.69		20.21		22.95		29.61		34.65			
18•	1.50		2.94		5.66		10.54		14.79		21.83		24.78		31.98		37.42			
19	1.61		3.16		6.09		11.34		15.91		23.49		26.66		34.41		40.26			
20	1.73		3.39		6.53		12.17		17.07		25.20		28.60		36.92		43.19			
21•	1.84		3.62		6.97		12.97		18.21		26.87		30.50		39.37		46.06			
22	1.96		3.85		7.41		13.80		19.37		28.59		32.45		41.88		49.00			
24•	2.19		4.29		8.26		15.38		21.57		31.85		36.15		46.65		54.59			
25	2.30		4.51		8.68		16.16		22.67		33.47		37.99		49.03					
26	2.42		4.74		9.13		17.00		23.86		35.22		39.97		51.59					
27•	2.54		4.98		9.59		17.86		25.06		37.00		41.99		54.20					
28	2.66		5.22		10.06		18.74		26.29		38.81		44.05		56.85					
30•	2.90		5.69		10.97		20.42		28.65		42.29		48.00		61.95					
32	3.15		6.17		11.89		22.14		31.07		45.86		52.06							
33•	3.27		6.42		12.36		23.02		32.31		47.69		54.13							
35	3.54		6.94		13.36		24.88		34.92		51.54		58.50							
36•	3.67		7.19		13.86		25.80		36.20		53.44		60.66							
40	4.21		8.25		15.89		29.58		41.51		61.27		69.54							
42•	4.46		8.75		16.85		31.38		44.03		64.99		73.77							
44	4.72		9.26		17.83		33.21		46.59		68.78		78.07							
45	4.85		9.52		18.33		34.13		47.89		70.70		80.25							
48•	5.27		10.33		19.90		37.05		51.98		76.73									
50	5.51		10.81		20.83		38.78		54.42		80.32									
52	5.78		11.33		21.82		40.63		57.01		84.15									
54•	6.04		11.85		22.82		42.50		59.63		88.02									
55	6.15		12.07		23.25		43.29		60.74											
56	6.28		12.32		23.73		44.18		61.99											
60•	6.83		13.39		25.79		48.02		67.38											
64•	7.33		14.39		27.70		51.59		72.38											
66•	7.60		14.91		28.71		53.45		75.00											
70	8.12		15.92		30.66		57.09		80.10											
72•	8.35		16.37		31.54		58.72		82.39											
80	9.43		18.49		35.61		66.31		93.04											
84•	9.97		19.55		37.65		70.10		98.36											
88	10.46		20.53		39.53		73.61		103.28											
90	10.73		21.04		40.52		75.45													
96•	11.52		22.60		43.52		81.03													
100	12.03		23.59		45.43		84.60													
108•	13.05		25.59		49.29		91.77													
110	13.32		26.12		50.31		93.68													
112	13.56		26.60		51.23		95.39													
120•	14.63		28.69		55.25															
144	13.89		27.25		52.49															
160	19.85		38.93		74.98															
200	25.03		49.09		94.54															

Ratings are based on strength calculation.

• Designates stock sizes for this pitch.

Note: 1. Ratings to right of heavy line are not recommended, as pitch line velocity exceeds 1000 feet per minute. They should be used for interpolation purposes only.

2. Non-metallic gears are most commonly used for the driving pinion of a pair of gears, with mating gear made of Cast Iron or Steel, where pitch line velocities exceed 1000 FPM and are not subjected to shock loads.



20° Horsepower Ratings (Approximate)

For
Class I Service (Service Factor = 1.0)

8 Diametral Pitch

20° Pressure Angle

1½" Face

No. Teeth	25 RPM		50 RPM		100 RPM		200 RPM		300 RPM		500 RPM		600 RPM		900 RPM		1200 RPM		1800 RPM	
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI
11	0.28		0.56		1.09		2.06		2.94		4.45		5.10		6.76		8.07		10.00	
12•	0.34		0.66		1.29		2.44		3.48		5.26		6.03		7.99		9.54		11.83	
13	0.39		0.78		1.51		2.85		4.06		6.14		7.04		9.33		11.14		13.81	
14•	0.44		0.87		1.70		3.21		4.57		6.91		7.93		10.50		12.54		15.55	
15•	0.50		0.98		1.90		3.60		5.13		7.76		8.90		11.78		14.07		17.45	
16•	0.54		1.07		2.07		3.92		5.58		8.44		9.69		12.83		15.31		18.99	
17	0.59		1.16		2.25		4.26		6.07		9.18		10.53		13.95		16.66		20.66	
18•	0.64		1.25		2.43		4.61		6.56		9.92		11.38		15.07		17.99		22.31	
19•	0.68		1.35		2.62		4.96		7.06		10.67		12.24		16.22		19.36		24.01	
20•	0.73		1.45		2.81		5.32		7.57		11.45		13.13		17.40		20.77		25.76	
21	0.78		1.54		3.00		5.67		8.07		12.21		14.00		18.55		22.14			
22•	0.83		1.64		3.19		6.03		8.59		12.99		14.90		19.73		23.56			
24•	0.93		1.83		3.55		6.72		9.56		14.47		16.60		21.98		26.24			
25	0.97		1.92		3.73		7.06		10.05		15.21		17.44		23.10		27.58			
26•	1.02		2.02		3.93		7.43		10.58		16.00		18.35		24.31		29.02			
27	1.08		2.12		4.12		7.80		11.11		16.81		19.28		25.54		30.49			
28•	1.13		2.23		4.33		8.19		11.66		17.63		20.22		26.79		31.98			
30•	1.23		2.43		4.71		8.92		12.70		19.21		22.04		29.19		34.85			
32•	1.33		2.63		5.11		9.68		13.77		20.84		23.90		31.66					
33	1.39		2.73		5.31		10.06		14.32		21.67		24.85		32.92					
35	1.50		2.96		5.74		10.87		15.48		23.42		26.86		35.58					
36•	1.56		3.06		5.96		11.27		16.05		24.28		27.85		36.89					
40•	1.78		3.51		6.83		12.92		18.40		27.84		31.93		42.29					
42•	1.89		3.73		7.24		13.71		19.52		29.53		33.87		44.86					
44•	2.00		3.94		7.67		14.51		20.66		31.25		35.84		47.48					
45	2.06		4.05		7.88		14.91		21.23		32.12		36.84							
48•	2.23		4.40		8.55		16.19		23.05		34.86		39.99							STEEL
50		1.12		2.21		4.30		8.13		11.58		17.52		20.09						CAST
52•		1.18		2.32		4.50		8.52		12.13		18.35		21.05						
54		1.23		2.42		4.71		8.91		12.69		19.20		22.02						
55		1.25		2.47		4.80		9.08		12.93		19.55		22.43						
56•		1.28		2.52		4.90		9.27		13.19		19.96		22.89						
60•		1.39		2.74		5.32		10.07		14.34		21.69		24.88						
64•		1.49		2.94		5.72		10.82		15.40		23.30								
66		1.55		3.05		5.92		11.21		15.96		24.14								
70		1.65		3.26		6.33		11.97		17.05		25.79								
72•		1.70		3.35		6.51		12.32		17.53										
80•		1.92		3.78		7.35		13.91		19.80										
84		2.03		4.00		7.77		14.70		20.93										
88•		2.13		4.20		8.16		15.44		21.98										
90		2.18		4.30		8.36		15.82		22.53										
96•		2.34		4.62		8.98		16.99		24.20										
100		2.45		4.82		9.37		17.74		25.26										
108		2.66		5.23		10.17		19.25		27.40										
110		2.71		5.34		10.38		19.65		27.97										
112•		2.76		5.44		10.57		20.01		28.48										
120•		2.98		5.87		11.40		21.58		30.72										
144•		2.83		5.57		10.83		20.50												
160•		4.04		7.96		15.47		29.28												
200		5.09		10.04		19.51		36.92												

Ratings are based on strength calculation.

• Designates stock sizes for this pitch.

Note: 1. Ratings to right of heavy line are not recommended, as pitch line velocity exceeds 1000 feet per minute. They should be used for interpolation purposes only.

2. Non-metallic gears are most commonly used for the driving pinion of a pair of gears, with mating gear made of Cast Iron or Steel, where pitch line velocities exceed 1000 FPM and are not subjected to shock loads.

20° Horsepower Ratings (Approximate)



For
Class I Service (Service Factor = 1.0)

10 Diametral Pitch

20° Pressure Angle

1 1/4" Face

No. Teeth	25 RPM		50 RPM		100 RPM		200 RPM		300 RPM		500 RPM		600 RPM		900 RPM		1200 RPM		1800 RPM	
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI
11	0.15		0.30		0.59		1.13		1.62		2.49		2.87		3.88		4.70		5.95	
12*	0.18		0.36		0.70		1.33		1.91		2.94		3.40		4.58		5.55		7.04	
13	0.21		0.42		0.81		1.55		2.23		3.43		3.97		5.35		6.48		8.22	
14*	0.24		0.47		0.91		1.75		2.51		3.87		4.47		6.02		7.30		9.25	
15*	0.27		0.53		1.03		1.96		2.82		4.34		5.01		6.76		8.19		10.38	
16*	0.29		0.57		1.12		2.14		3.07		4.72		5.45		7.36		8.91		11.30	
17	0.31		0.62		1.22		2.32		3.34		5.14		5.93		8.00		9.70		12.30	
18*	0.34		0.67		1.31		2.51		3.61		5.55		6.41		8.64		10.47		13.28	
19	0.37		0.72		1.41		2.70		3.88		5.97		6.89		9.30		11.27		14.29	
20*	0.39		0.78		1.52		2.90		4.16		6.40		7.40		9.98		12.09		15.33	
21	0.42		0.83		1.62		3.09		4.44		6.83		7.89		10.64		12.89		16.35	
22*	0.44		0.88		1.72		3.29		4.72		7.26		8.39		11.32		13.71		17.39	
24*	0.50		0.98		1.91		3.66		5.26		8.09		9.35		12.61		15.28		19.37	
25*	0.52		1.03		2.01		3.85		5.53		8.50		9.82		13.25		16.05		20.36	
26*	0.55		1.08		2.12		4.05		5.82		8.95		10.34		13.94		16.89			
27	0.58		1.14		2.22		4.25		6.11		9.40		10.86		14.65		17.75			
28*	0.60		1.19		2.33		4.46		6.41		9.86		11.39		15.37		18.61			
30*	0.66		1.30		2.54		4.86		6.99		10.74		12.41		16.74		20.28			
32*	0.71		1.41		2.76		5.27		7.58		11.65		13.46		18.16		22.00			
33	0.74		1.47		2.87		5.48		7.88		12.11		14.00		18.88		22.87			
35*	0.80		1.59		3.10		5.93		8.52		13.09		15.13		20.41		24.72			
36*	0.83		1.64		3.21		6.14		8.83		13.58		15.68		21.16		25.63			
40*	0.95		1.88		3.68		7.04		10.12		15.56		17.98		24.26					
42	1.01		2.00		3.91		7.47		10.74		16.51		19.07		25.73					
44	1.07		2.12		4.14		7.91		11.36		17.47		20.19		27.23					
45*	1.10		2.18		4.25		8.13		11.68		17.96		20.75		27.99					
48*	1.19		2.36		4.61		8.82		12.68		19.49		22.52		30.38					
50*	1.25		2.47		4.83		9.24		13.27		20.41		23.57							
52	1.31		2.59		5.06		9.68		13.90		21.38		24.70							
54	1.37		2.71		5.29		10.12		14.54		22.36		25.83							
55*	1.40		2.76		5.39		10.31		14.81		22.78		26.31							
56	1.42		2.82		5.50		10.52		15.12		23.25		26.86							
60*	1.55		3.06		5.98		11.44		16.43		25.27		29.19							
64		0.80		1.58		3.08		5.90		8.47		13.03		15.05						
66		0.83		1.63		3.19		6.11		8.78		13.50		15.60						
70*		0.88		1.75		3.41		6.53		9.38		14.42		16.66						
72		0.91		1.80		3.51		6.71		9.65		14.83		17.13						
80*		1.03		2.03		3.96		7.58		10.89		16.75								
84		1.08		2.14		4.19		8.01		11.52		17.71								
88		1.14		2.25		4.40		8.41		12.09		18.59								
90*		1.17		2.31		4.51		8.62		12.39		19.06								
96		1.25		2.48		4.84		9.26		13.31										
100*		1.31		2.59		5.06		9.67		13.90										
108		1.42		2.81		5.49		10.49		15.08										
110		1.45		2.87		5.60		10.71		15.39										
112		1.48		2.92		5.70		10.90		15.67										
120		1.59		3.15		6.15		11.76		16.90										
144		1.51		2.99		5.84		11.17		16.05										
160		2.16		4.27		8.35		15.96		22.93										
200		2.72		5.38		10.52		20.12		28.92										

Ratings are based on strength calculation.

• Designates stock sizes for this pitch.

Note: 1. Ratings to right of heavy line are not recommended, as pitch line velocity exceeds 1000 feet per minute. They should be used for interpolation purposes only.

2. Non-metallic gears are most commonly used for the driving pinion of a pair of gears, with mating gear made of Cast Iron or Steel, where pitch line velocities exceed 1000 FPM and are not subjected to shock loads.



20° Horsepower Ratings (Approximate)

For
Class I Service (Service Factor = 1.0)

12 Diametral Pitch

20° Pressure Angle

1" Face

No. Teeth	25 RPM		50 RPM		100 RPM		200 RPM		300 RPM		500 RPM		600 RPM		900 RPM		1200 RPM		1800 RPM	
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI
11	0.08		0.17		0.33		0.63		0.92		1.43		1.66		2.27		2.78		3.58	
12*	0.10		0.20		0.39		0.75		1.09		1.69		1.96		2.68		3.28		4.24	
13*	0.12		0.23		0.45		0.88		1.27		1.97		2.29		3.13		3.83		4.95	
14*	0.13		0.26		0.51		0.99		1.43		2.22		2.58		3.52		4.32		5.57	
15*	0.15		0.29		0.57		1.11		1.60		2.49		2.89		3.95		4.84		6.25	
16*	0.16		0.32		0.63		1.20		1.74		2.71		3.15		4.30		5.27		6.81	
17	0.18		0.35		0.68		1.31		1.90		2.95		3.42		4.68		5.74		7.40	
18*	0.19		0.37		0.73		1.42		2.05		3.18		3.70		5.06		6.19		7.99	
19*	0.20		0.40		0.79		1.52		2.20		3.43		3.98		5.44		6.67		8.60	
20*	0.22		0.43		0.85		1.63		2.36		3.68		4.27		5.84		7.15		9.23	
21*	0.23		0.46		0.90		1.74		2.52		3.92		4.55		6.22		7.63		9.84	
22*	0.25		0.49		0.96		1.85		2.68		4.17		4.84		6.62		8.11		10.47	
24*	0.28		0.55		1.07		2.06		2.99		4.64		5.39		7.38		9.04		11.66	
25*	0.29		0.57		1.13		2.17		3.14		4.88		5.67		7.75		9.50		12.26	
26*	0.31		0.60		1.19		2.28		3.30		5.14		5.96		8.16		9.99		12.90	
27	0.32		0.63		1.25		2.40		3.47		5.40		6.27		8.57		10.50		13.55	
28*	0.34		0.67		1.31		2.52		3.64		5.66		6.57		8.99		11.01		14.21	
30*	0.37		0.73		1.42		2.74		3.96		6.17		7.16		9.79		12.00		15.49	
32*	0.40		0.79		1.54		2.97		4.30		6.69		7.77		10.62		13.01			
33	0.41		0.82		1.61		3.09		4.47		6.95		8.08		11.05		13.53			
35	0.45		0.88		1.73		3.34		4.83		7.52		8.73		11.94		14.63			
36*	0.46		0.92		1.80		3.46		5.01		7.79		9.05		12.38		15.16			
40	0.53		1.05		2.06		3.97		5.74		8.94		10.38		14.19		17.39			
42*	0.56		1.12		2.19		4.21		6.09		9.48		11.01		15.05		18.44			
44	0.60		1.18		2.32		4.46		6.45		10.03		11.65		15.93		19.52			
45	0.61		1.21		2.38		4.58		6.63		10.31		11.97		16.37		20.06			
48*	0.66		1.32		2.58		4.97		7.19		11.19		13.00		17.77					
50	0.70		1.38		2.70		5.21		7.53		11.71		13.60		18.60					
52	0.73		1.44		2.83		5.45		7.89		12.27		14.25		19.49					
54*	0.76		1.51		2.96		5.71		8.25		12.84		14.91		20.39					
55	0.78		1.54		3.02		5.81		8.41		13.08		15.18		20.77					
56	0.79		1.57		3.08		5.93		8.58		13.35		15.50		21.19					
60*	0.86		1.71		3.35		6.45		9.33		14.51		16.84		23.04					
64	0.93		1.83		3.60		6.93		10.02		15.58		18.10		24.75					
66*	0.96		1.90		3.73		7.18		10.38		16.15		18.75							
70	1.02		2.03		3.98		7.66		11.09		17.24		20.03							
72*	1.05		2.09		4.09		7.88		11.40											
80		0.57		1.13		2.22		4.27		6.18		9.61		11.16						
84*		0.60		1.20		2.35		4.52		6.53		10.16		11.80						
88		0.63		1.26		2.46		4.74		6.86		10.67		12.39						
90		0.65		1.29		2.52		4.86		7.03		10.94								
96*		0.70		1.38		2.71		5.22		7.55		11.75								
100		0.73		1.44		2.83		5.45		7.89		12.27								
108*		0.79		1.57		3.07		5.91		8.55		13.31								
110		0.81		1.60		3.13		6.04		8.73		13.58								
112		0.82		1.63		3.19		6.15		8.89										
120*		0.89		1.76		3.44		6.63		9.59										
144*		0.84		1.67		3.27		6.30		9.11										
160		1.20		2.38		4.67		9.00		13.01										
200		1.52		3.00		5.89		11.34		16.41										

Ratings are based on strength calculation.

• Designates stock sizes for this pitch.

Note: 1. Ratings to right of heavy line are not recommended, as pitch line velocity exceeds 1000 feet per minute. They should be used for interpolation purposes only.

2. Non-metallic gears are most commonly used for the driving pinion of a pair of gears, with mating gear made of Cast Iron or Steel, where pitch line velocities exceed 1000 FPM and are not subjected to shock loads.

20° Horsepower Ratings (Approximate)



For
Class I Service (Service Factor = 1.0)

16 Diametral Pitch

20° Pressure Angle

3/4" Face

No. Teeth	25 RPM		50 RPM		100 RPM		200 RPM		300 RPM		500 RPM		600 RPM		900 RPM		1200 RPM		1800 RPM	
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI
11	0.04		0.07		0.14		0.27		0.40		0.63		0.73		1.02		1.28		1.69	
12•	0.04		0.08		0.17		0.32		0.47		0.74		0.87		1.21		1.51		2.00	
13•	0.05		0.10		0.19		0.38		0.55		0.87		1.01		1.41		1.76		2.33	
14•	0.06		0.11		0.22		0.42		0.62		0.98		1.14		1.59		1.98		2.63	
15•	0.06		0.12		0.24		0.48		0.69		1.10		1.28		1.79		2.22		2.95	
16•	0.07		0.14		0.27		0.52		0.76		1.19		1.40		1.94		2.42		3.21	
17•	0.07		0.15		0.29		0.56		0.82		1.30		1.52		2.12		2.63		3.49	
18•	0.08		0.16		0.31		0.61		0.89		1.40		1.64		2.28		2.84		3.77	
19	0.09		0.17		0.34		0.65		0.95		1.51		1.76		2.46		3.06		4.05	
20•	0.09		0.18		0.36		0.70		1.02		1.62		1.89		2.64		3.28		4.35	
21•	0.10		0.20		0.39		0.75		1.09		1.73		2.02		2.81		3.50		4.64	
22•	0.10		0.21		0.41		0.80		1.16		1.84		2.15		2.99		3.72		4.93	
24•	0.12		0.23		0.46		0.89		1.29		2.04		2.39		3.33		4.15		5.50	
25	0.12		0.24		0.48		0.93		1.36		2.15		2.51		3.50		4.36		5.78	
26•	0.13		0.26		0.50		0.98		1.43		2.26		2.64		3.69		4.59		6.08	
27	0.14		0.27		0.53		1.03		1.50		2.38		2.78		3.87		4.82		6.38	
28•	0.14		0.28		0.56		1.08		1.58		2.49		2.91		4.06		5.06		6.70	
30•	0.15		0.31		0.61		1.18		1.72		2.72		3.18		4.43		5.51		7.30	
32•	0.17		0.33		0.66		1.28		1.86		2.94		3.44		4.80		5.98		7.91	
33	0.17		0.35		0.68		1.33		1.94		3.06		3.58		4.99		6.21		8.23	
35	0.19		0.37		0.74		1.44		2.09		3.31		3.87		5.39		6.72		8.89	
36•	0.20		0.39		0.77		1.49		2.17		3.43		4.01		5.59		6.96		9.22	
40•	0.22		0.45		0.88		1.71		2.49		3.93		4.60		6.41		7.98		10.57	
42	0.24		0.47		0.93		1.81		2.64		4.17		4.88		6.80		8.47			
44	0.25		0.50		0.99		1.92		2.80		4.42		5.16		7.20		8.96			
45	0.26		0.51		1.01		1.97		2.87		4.54		5.31		7.40		9.21			
48•	0.28		0.56		1.10		2.14		3.12		4.93		5.76		8.03		10.00			
50	0.29		0.58		1.15		2.24		3.26		5.16		6.03		8.41		10.47			
52	0.31		0.61		1.21		2.34		3.42		5.40		6.32		8.81		10.96			
54	0.32		0.64		1.26		2.45		3.58		5.65		6.61		9.21		11.47			
55	0.33		0.65		1.29		2.50		3.64		5.76		6.73		9.38		11.68			
56•	0.34		0.67		1.31		2.55		3.72		5.88		6.87		9.58					
60•	0.36		0.72		1.43		2.77		4.04		6.39		7.47		10.41					
64•	0.39		0.78		1.53		2.98		4.34		6.86		8.02		11.18					
66	0.41		0.81		1.59		3.08		4.50		7.11		8.31		11.58					
70	0.43		0.86		1.70		3.29		4.81		7.59		8.88		12.37					
72•	0.45		0.88		1.74		3.39		4.94		7.81		9.13		12.73					
80•	0.50		1.00		1.97		3.83		5.58		8.82		10.31		14.37					
84•	0.53		1.06		2.08		4.05		5.90		9.32		10.90		15.19					
88•	0.56		1.11		2.19		4.25		6.20		9.79		11.45							
90	0.57		1.14		2.24		4.35		6.35		10.03		11.73							
96•	0.62		1.22		2.41		4.68		6.82		10.78		12.60							
100	0.64		1.27		2.51		4.88		7.12		11.25		13.16							
108		0.33		0.66		1.31		2.54		3.71		5.86		6.85						
110		0.34		0.68		1.34		2.60		3.79		5.98		6.99						
112•		0.35		0.69		1.36		2.64		3.85		6.09		7.12						
120		0.37		0.74		1.47		2.85		4.16		6.57		7.68						
144•		0.36		0.71		1.39		2.71		3.95		6.24								
160•		0.51		1.01		1.99		3.87		5.64		8.91								
200		0.64		1.27		2.51		4.88		7.11		11.24								

Ratings are based on strength calculation.

• Designates stock sizes for this pitch.

Note: 1. Ratings to right of heavy line are not recommended, as pitch line velocity exceeds 1000 feet per minute. They should be used for interpolation purposes only.

2. Non-metallic gears are most commonly used for the driving pinion of a pair of gears, with mating gear made of Cast Iron or Steel, where pitch line velocities exceed 1000 FPM and are not subjected to shock loads.



20° Horsepower Ratings (Approximate)

For
Class I Service (Service Factor = 1.0)

20 Diametral Pitch

20° Pressure Angle

½" Face

No. Teeth	25 RPM		50 RPM		100 RPM		200 RPM		300 RPM		500 RPM		600 RPM		900 RPM		1200 RPM		1800 RPM	
	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI	S	CI
11	0.02		0.03		0.06		0.12		0.17		0.28		0.32		0.46		0.57		0.78	
12•	0.02		0.04		0.07		0.14		0.20		0.33		0.38		0.54		0.68		0.92	
13	0.02		0.04		0.08		0.16		0.24		0.38		0.45		0.63		0.79		1.07	
14•	0.02		0.05		0.09		0.18		0.27		0.43		0.50		0.71		0.89		1.20	
15•	0.03		0.05		0.11		0.21		0.30		0.48		0.56		0.80		1.00		1.35	
16•	0.03		0.06		0.11		0.22		0.33		0.52		0.61		0.87		1.09		1.47	
17	0.03		0.06		0.12		0.24		0.36		0.57		0.67		0.94		1.19		1.60	
18•	0.03		0.07		0.13		0.26		0.38		0.61		0.72		1.02		1.28		1.73	
19	0.04		0.07		0.14		0.28		0.41		0.66		0.78		1.10		1.38		1.86	
20•	0.04		0.08		0.16		0.30		0.44		0.71		0.83		1.18		1.48		2.00	
21•	0.04		0.08		0.17		0.32		0.47		0.76		0.89		1.25		1.58		2.13	
22•	0.04		0.09		0.18		0.34		0.50		0.80		0.94		1.33		1.68		2.26	
24•	0.05		0.10		0.20		0.38		0.56		0.90		1.05		1.49		1.87		2.52	
25•	0.05		0.10		0.21		0.40		0.59		0.94		1.11		1.56		1.96		2.65	
26	0.06		0.11		0.22		0.42		0.62		0.99		1.16		1.64		2.07		2.79	
27	0.06		0.12		0.23		0.44		0.65		1.04		1.22		1.73		2.17		2.93	
28•	0.06		0.12		0.24		0.47		0.68		1.09		1.28		1.81		2.28		3.07	
30•	0.07		0.13		0.26		0.51		0.75		1.19		1.40		1.97		2.48		3.35	
32•	0.07		0.14		0.28		0.55		0.81		1.29		1.52		2.14		2.69		3.63	
33	0.07		0.15		0.29		0.57		0.84		1.34		1.58		2.22		2.80		3.78	
35•	0.08		0.16		0.32		0.62		0.91		1.45		1.70		2.40		3.03		4.08	
36•	0.08		0.17		0.33		0.64		0.94		1.50		1.77		2.49		3.14		4.23	
40•	0.10		0.19		0.38		0.74		1.08		1.72		2.02		2.86		3.60		4.85	
42	0.10		0.20		0.40		0.78		1.15		1.83		2.15		3.03		3.81		5.15	
44	0.11		0.21		0.42		0.83		1.21		1.93		2.27		3.21		4.04		5.45	
45•	0.11		0.22		0.44		0.85		1.25		1.99		2.34		3.30		4.15		5.60	
48	0.12		0.24		0.47		0.92		1.35		2.16		2.54		3.58		4.50		6.08	
50•	0.13		0.25		0.49		0.97		1.42		2.26		2.65		3.75		4.71		6.36	
52	0.13		0.26		0.52		1.01		1.48		2.37		2.78		3.92		4.94		6.66	
54	0.14		0.27		0.54		1.06		1.55		2.48		2.91		4.10		5.17			
55	0.14		0.28		0.55		1.08		1.58		2.52		2.96		4.18		5.26			
56	0.14		0.28		0.56		1.10		1.61		2.57		3.02		4.27		5.37			
60•	0.16		0.31		0.61		1.20		1.75		2.80		3.29		4.64		5.84			
64	0.17		0.33		0.66		1.28		1.88		3.01		3.53		4.98		6.27			
66	0.17		0.34		0.68		1.33		1.95		3.11		3.66		5.16		6.50			
70•	0.19		0.37		0.73		1.42		2.08		3.33		3.91		5.51		6.94			
72•	0.19		0.38		0.75		1.46		2.14		3.42		4.02		5.67		7.14			
80•	0.22		0.43		0.85		1.65		2.42		3.86		4.54		6.40					
84•	0.23		0.45		0.89		1.75		2.56		4.08		4.80		6.77					
88	0.24		0.47		0.94		1.83		2.69		4.29		5.04		7.11					
90•	0.24		0.49		0.96		1.88		2.76		4.40		5.16		7.29					
96•	0.26		0.52		1.03		2.02		2.96		4.72		5.55		7.83					
100•	0.27		0.55		1.08		2.11		3.09		4.93		5.79		8.17					
108	0.30		0.59		1.17		2.29		3.35		5.35		6.28							
110	0.30		0.60		1.19		2.33		3.42		5.46		6.41							
112	0.31		0.62		1.22		2.38		3.48		5.56		6.53							
120•	0.33		0.66		1.31		2.56		3.76		5.99		7.04							
144	0.32		0.63		1.25		2.43		3.57		5.69		6.69							
160	0.45		0.90		1.78		3.48		5.10		8.13		9.56							
200	0.57		1.14		2.24		4.38		6.43		10.26		12.05							

Ratings are based on strength calculation.

• Designates stock sizes for this pitch.

Note: 1. Ratings to right of heavy line are not recommended, as pitch line velocity exceeds 1000 feet per minute. They should be used for interpolation purposes only.

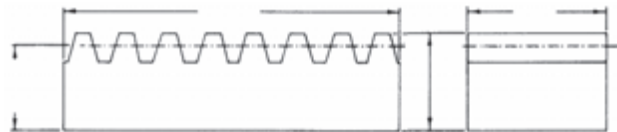
2. Non-metallic gears are most commonly used for the driving pinion of a pair of gears, with mating gear made of Cast Iron or Steel, where pitch line velocities exceed 1000 FPM and are not subjected to shock loads.

Machined Gear Rack

Standard Face Width Steel — 14½° & 20° Pressure Angle

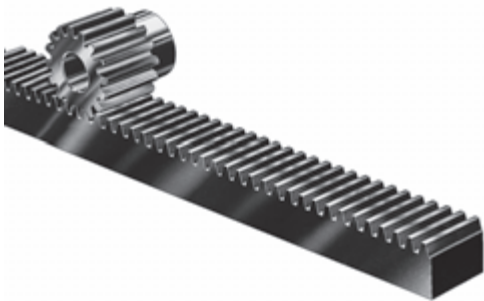
Catalog Number		Pitch	Face Width (Inches)	Overall Thickness (Inches)	Pitch Line Backing	App. Weight Lbs./Pc
14½° P.A.	20° P.A.					
R3x2 R3x4 R3x6	TR3x2 TR3x4 TR3x6	3	3	1½	1.167	24.00 48.00 72.00
R4x2 R4x4 R4x6	TR4x2 TR4x4 TR4x6	4	2	1½	1.250	17.40 34.80 52.20
RA4x2 RA4x4 RA4x6		4	2	2	1.750	23.60 47.20 70.80
R5x2 R5x4 R5x6	TR5x2 TR5x4 TR5x6	5	1½	1½	1.050	12.80 25.60 38.40
RA5x2 RA5x4 RA5x6		5	1½	1½	1.300	16.00 32.00 48.00
R6x2 R6x4 R6x6		6	1½	1	0.833	8.60 17.20 25.80
RA6x2 RA6x4 RA6x6	TR6x2 TR6x4 TR6x6	6	1½	1½	1.333	13.80 27.60 41.40
R8x2 R8x4 R8x6		8	1½	¾	0.625	5.20 10.40 15.60
RA8x2 RA8x4 RA8x6	TR8x2 TR8x4 TR8x6	8	1½	1½	1.125	9.80 19.60 29.40
R10x2 R10x4 R10x6		10	1	¾	0.525	3.60 7.20 10.80
RA10x2 RA10x4 RA10x6	TR10x2 TR10x4 TR10x6	10	1	1	0.900	6.00 12.00 18.00
R12x2 R12x4 R12x6		12	¾	½	0.417	2.00 4.00 6.00
RA12x2 RA12x4 RA12x6	TR12x2 TR12x4 TR12x6	12	¾	¾	0.667	3.40 6.80 10.20
R16x2 R16x4 R16x6		16	⅝	⅝	0.250	0.50 1.00 1.50
RA16x2 RA16x4 RA16x6	TR16x2 TR16x4 TR16x6	16	½	½	0.438	1.52 3.04 4.56
R20x2 R20x4 R20x6	TR20x2 TR20x4 TR20x6	20	¾	¾	0.325	0.84 1.68 2.52
R24x2 R24x4 R24x6		24	¾	¾	0.208	0.38 0.76 1.14

Martin Rack is made from low carbon cold drawn steel. It is available in 14½° and 20° pressure angle in 2, 4, and 6 foot lengths. Allowance is made for cutting and machining. Pinions to run with the rack may be selected from the Spur Gear section of the catalog. Special rack can be supplied in other materials, sizes, and pitches.



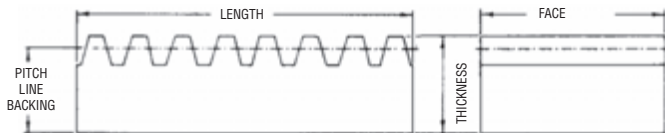
**Rack in lengths up to 12'
Available on Request**

Martin Rack is made from low carbon cold drawn steel. It is available in 14½° and 20° pressure angle in 2, 4, and 6 foot lengths. Allowance is made for cutting and machining. Pinions to run with the rack may be selected from the Spur Gear section of the catalog. Special rack can be supplied in other materials, sizes, and pitches.



Wide Face Width Steel — 20° Pressure Angle

Catalog Number	Pitch	Face Width (Inches)	Overall Thickness (Inches)	Pitch Line Backing	App. Weight Lbs./Pc
R204x2 R204x4 R204x6	4	3½	2	1.750	41.0 82.0 123.0
R205x2 R205x4 R205x6	5	2½	1½	1.300	22.4 44.8 67.2
R206x2 R206x4 R206x6	6	2	1½	1.333	17.0 34.0 51.0
R208x2 R208x4 R208x6	8	1½	1½	1.375	13.8 27.6 41.3
R2010x2 R2010x4 R2010x6	10	1¼	1¼	1.150	9.0 18.0 27.0
R2012x2 R2012x4 R2012x6	12	1	1	0.917	6.4 12.8 19.2
R2016x2 R2016x4 R2016x6	16	¾	¾	0.688	3.4 6.8 10.2
R2020x2 R2020x4 R2020x6	20	½	½	0.450	0.8 1.6 2.5

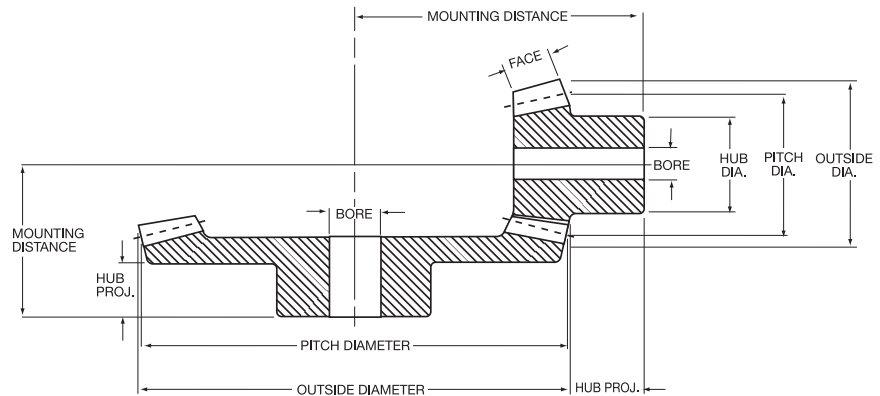


Martin Stocks
14½° Spur Gears
 &
20° Spur Gears

Rack in lengths up to 12'
Available on Request

Bevel Gears

20° Pressure Angle



Bevel Gears are used as right angle drives where high efficiency is required. They are carried in stock as 1:1 to 6:1 ratios. Bevel Gears are cut with the long and short addendum system and 20 degree pressure angle to compensate for tooth undercut in gears and pinions having low numbers of teeth. Most all of *Martin* Bevel Gears are cut with the Coniflex tooth form to allow for a slight misalignment at assembly and

during operation. Gears should be mounted at the correct distance from the core of apex center with thrust bearings being used in back of hubs to absorb the backward thrust created in this type of gearing.

Cast Iron Gears With Steel Pinions

Number Teeth	Catalog Number	Diameter		Face (Inches)	Bore (Inches)		Mounting (Inches)	Hub (Inches)		Wt. Lbs. (App.)
		Pitch	Outside		Diameter	Length		Diameter	Proj. (App.)	

3 Pitch

30	B330-2	10.00	10.19	1.87	1 1/4	3 3/2	5 1/2	5	2	32.8
15	B315-2	5.00	5.80	1.87	1 1/8	4 1/2	7 1/4	3 3/4	1 1/16	13.4

4 Pitch

32	B432-2	8.00	8.10	1.40	1 1/8	2 1/16	4 1/4	3 3/4	1 1/16	14.7
16	B416-2	4.00	4.60	1.40	1 1/8	3 1/2	6	3 3/4	1 3/16	7.5
42	B442-3	10.50	10.59	1.42	1 1/8	2 1/16	4	3 3/4	1 1/2	20.5
14	B414-3	3.50	4.17	1.42	1 1/8	3 3/4	7 1/4	3 3/4	1 3/16	6.8
56	B456-4	14.00	14.07	1.69	1 1/4	2 7/8	4 1/4	4 1/4	1 3/8	37.8
14	B414-4	3.50	4.20	1.69	1 1/8	3 3/4	9	3 3/4	1 3/16	7.6

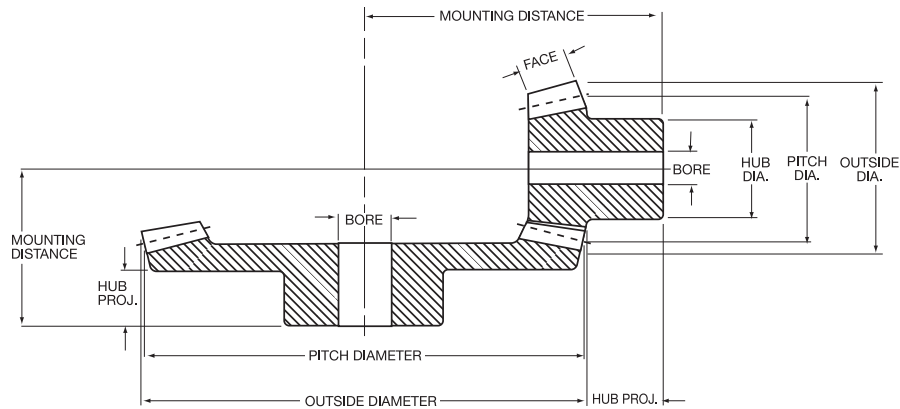
5 Pitch

30	B530-2	6.00	6.12	1.04	1 1/8	2 1/4	3 1/2	3 3/4	1 3/8	8.6
15	B515-2	3.00	3.48	1.04	1	2 5/16	4 3/8	2 5/8	1 3/32	3.1
45	B545-3	9.00	9.07	1.31	1 1/4	2 1/2	3 3/4	3 3/4	1 1/16	14.6
15	B515-3	3.00	3.54	1.31	1	2 1/16	5 1/8	2 5/8	1 1/16	3.6
60	B560-4	12.00	12.05	1.70	1 1/4	2 3/8	3 3/4	4	1 1/8	23.2
15	B515-4	3.00	3.56	1.70	1	3 3/16	7 1/2	3	1 1/2	5.0

6 Pitch

36	BS636-2	6.00	6.10	1.06	1 1/8	2 1/4	3 1/2	3 3/4	1 1/2	7.5
18	B618-2	3.00	3.42	1.06	1	2 3/16	4 1/4	2 1/2	1 3/8	3.3
42	B642-2	7.00	7.10	1.05	1 1/8	2 3/16	3 3/4	3 3/4	1 1/2	9.5
21	B621-2	3.50	3.90	1.05	1	2 3/16	5	2 1/2	1 1/4	3.8
45	B645-3	7.50	7.56	1.07	1 1/8	2 1/8	3	3 3/4	1 1/4	8.9
15	B615-3	2.50	2.94	1.07	3/4	2 1/8	5 1/4	2 1/8	1 1/16	2.2
48	B648-2	8.00	8.10	1.17	1 1/8	1 5/16	3 3/8	3 3/4	1	11.6
24	B624-2	4.00	4.40	1.17	1	2 3/16	5 1/8	2 5/8	1 1/4	4.9
60	B660-4	10.00	10.04	1.21	1 1/8	2 1/4	3 3/4	3 3/4	1 3/8	14.3
15	B615-4	2.50	2.97	1.21	1	2 3/16	6 3/4	2 1/2	1 3/4	3.2

Steel Bevel Gears may be furnished with hardened teeth at slight additional cost.



Cast Iron Gears With Steel Pinions

Number Teeth	Catalog Number	Diameter		Face (Inches)	Bore (Inches)		Mounting (Inches)	Hub (Inches)		Wt. Lbs. (App.)
		Pitch	Outside		Diameter	Length		Diameter	Proj. (App.)	

8 Pitch

40	BS840-2	5.00	5.07	0.82	1	1 ⁷ / ₃₂	2 ⁷ / ₈	3	1 ¹ / ₄	4.9
20	B820-2	2.50	2.80	0.82	⁷ / ₈	2 ³ / ₃₂	4	2 ⁷ / ₈	1 ³ / ₃₂	1.9
48	B848-3	6.05	6.20	0.84	⁷ / ₈	1 ¹ / ₈	2 ³ / ₈	2 ³ / ₈	1	4.5
16	B816-3	2.00	2.33	0.84	³ / ₄	2 ³ / ₆₄	4 ¹ / ₄	1 ³ / ₄	1 ³ / ₁₆	1.2
64	B864-4	8.00	8.03	0.84	1	1 ¹ / ₈	2 ³ / ₈	2 ³ / ₈	1 ¹ / ₄	9.0
16	B816-4	2.00	2.35	0.84	⁷ / ₈	2 ³ / ₃₂	5 ¹ / ₄	1 ⁷ / ₈	1 ¹ / ₃₂	1.3
72	B872-4	9.00	9.03	1.22	1 ¹ / ₈	2 ³ / ₁₆	3 ¹ / ₄	3	1 ¹ / ₁₆	12.2
18	B818-4	2.25	2.60	1.22	⁷ / ₈	2 ¹ / ₃₂	5 ¹ / ₄	2 ⁷ / ₈	1 ¹ / ₃₂	1.9

10 Pitch

60	B1060-3	6.00	6.04	0.78	⁷ / ₈	1 ² / ₃₂	2 ³ / ₄	3	1 ³ / ₈	5.1
20	B1020-3	2.00	2.27	0.78	³ / ₄	2 ¹ / ₃₂	4 ³ / ₈	1 ³ / ₄	1 ¹ / ₁₆	1.3
60	B1060-4	6.00	6.03	0.72	⁷ / ₈	1 ¹ / ₈	2 ¹ / ₄	2 ¹ / ₈	1 ¹ / ₈	4.5
15	B1015-4	1.50	1.78	0.72	³ / ₈	1 ³ / ₆₄	3 ³ / ₈	1 ¹ / ₁₆	² / ₃₂	0.6
90	B1090-6	9.00	9.03	0.86	1	1 ¹ / ₁₆	2 ¹ / ₂	2 ³ / ₈	1 ¹ / ₁₆	9.7
15	B1015-6	1.50	1.79	0.86	³ / ₈	1 ⁵ / ₆₄	5 ¹ / ₂	1 ¹ / ₁₆	³ / ₃₂	0.7

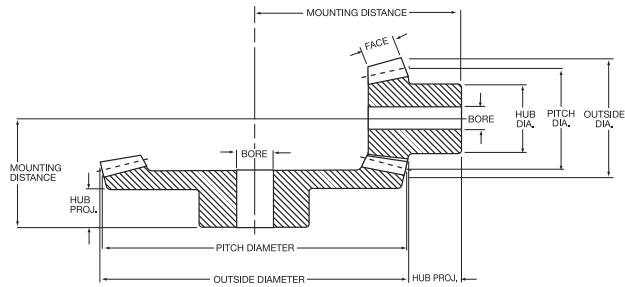
12 Pitch

36	B1236-2	3.00	3.05	0.46	³ / ₈	⁷ / ₈	1 ¹ / ₂	1 ¹ / ₁₆	¹ / ₂	0.8
18	B1218-2	1.50	1.70	0.46	¹ / ₂	1 ¹ / ₆₄	2 ¹ / ₄	1 ¹ / ₄	1 ¹ / ₁₆	0.5
72	B1272-4	6.00	6.02	0.60	³ / ₄	1 ¹ / ₁₆	2	2	⁶ / ₆₄	2.6
18	B1218-4	1.50	1.73	0.60	¹ / ₂	1 ² / ₆₄	3 ³ / ₄	1 ¹ / ₄	² / ₃₂	0.4
72	B1272-6	6.00	6.02	0.74	³ / ₄	1 ¹ / ₁₆	1 ¹ / ₄	2	⁶ / ₆₄	2.6
12	B1212-6	1.00	1.24	0.74	¹ / ₂	1 ³ / ₆₄	3 ³ / ₄	¹ / ₁₆	² / ₃₂	0.4

Steel Bevel Gears may be furnished with hardened teeth at slight additional cost.

Bevel Gears

20° Pressure Angle



Steel Gears With Steel Pinions

Number Teeth	Catalog Number	Diameter		Face (Inches)	Bore (Inches)		Mounting (Inches)	Hub (Inches)		Wt. Lbs. (App.)
		Pitch	Outside		Diameter	Length		Diameter	Proj. (App.)	

6 Pitch

36	BS636-2	6.00	6.10	1.06	1½	2¼	3½	3¾	1½	8.70
18	BS618-2	3.00	3.42	1.06	1½	2¾	4¾	2½	1½	3.20

8 Pitch

40	BS840-2	5.00	5.07	0.82	1	1½	2½	3	1¼	4.90
20	BS820-2	2.50	2.80	0.82	1	2½	4	2½	1½	1.80

10 Pitch

30	BS1030-15	3.00	3.08	0.57	¾	1¼	2¼	2½	1	2.00
20	BS1020-15	2.00	2.21	0.57	¾	1¾	2½	1¾	¾	0.80
40	BS1040-2	4.00	4.06	0.71	¾	1¼	2½	3	1¼	3.70
20	BS1020-2	2.00	2.24	0.71	¾	1¾	3½	1¾	1¼	1.00
50	BS1050-2	5.00	5.06	0.70	¾	1½	2½	2	1	4.00
25	B1025-2	2.50	2.74	0.70	¾	1¾	3½	2	¾	1.50
60	BS1060-3	6.00	6.04	0.78	1	1¾	2¾	3	1¼	6.00
20	BS1020-3	2.00	2.27	0.78	¾	2½	4¾	1¾	1¼	0.90

12 Pitch

27	BS1227-15	2.25	2.32	0.41	½	1¼	1¾	1½	¾	0.60
18	BS1218-15	1.50	1.67	0.41	½	1½	1¾	1¼	¾	0.30
36	BS1236-2	3.00	3.05	0.53	1	1¾	1¾	2½	¾	1.30
18	BS1218-2	1.50	1.70	0.53	¾	1¾	2½	1¾	¾	0.30
36	BS1236-2A	3.00	3.05	0.53	¾	1¾	1¾	2½	¾	1.40
18	BS1218-2A	1.50	1.70	0.53	½	1¾	2½	1¾	¾	0.40
48	BS1248-2	4.00	4.05	0.59	¾	1¾	2	1¾	¾	1.60
24	B1224-2	2.00	2.20	0.59	½	1¾	2½	1½	¾	0.80
54	BS1254-3	4.50	4.53	0.60	¾	1¼	1¾	1¾	¾	1.90
18	B1218-3	1.50	1.72	0.60	½	1½	3	1¼	¾	0.40

14 Pitch

28	BS1428-2	2.00	2.04	0.35	½	¾	1¾	1¾	¾	0.50
14	BS1414-2	1.00	1.17	0.35	½	¾	1¾	1¾	¾	0.10

16 Pitch

24	BS1624-2	1.50	1.54	0.19	½	¾	1	1	¾	0.15
12	BS1612-2	0.75	0.91	0.19	¾	¾	1½	¾	¾	0.08
24	BS1624-15	1.50	1.55	0.25	½	¾	1¼	1¼	¾	0.40
16	BS1616-15	1.00	1.13	0.25	¾	¾	1¼	1¼	¾	0.09
32	BS1632-2	2.00	2.04	0.35	½	¾	1¼	1¼	¾	0.30
16	BS1616-2	1.00	1.15	0.35	¾	¾	1½	1¼	¾	0.04
48	BS1648-3	3.00	3.02	0.42	¾	¾	1¼	1½	¾	0.74
16	B1616-3	1.00	1.17	0.42	¾	¾	2	¾	¾	0.13
64	BS1664-4	4.00	4.02	0.48	¾	¾	1¾	2¼	¾	1.70
16	B1616-4	1.00	1.17	0.48	½	¾	2½	1¾	¾	0.12

Steel Bevel Gears may be furnished with hardened teeth at slight additional cost.



Bevel Gears Horsepower Ratings

Cast Iron

Catalog Number	Revolutions per Minute							
	50	100	200	300	600	900	1200	1800
B330-2	2.50	4.50	7.7	10.0	15.3			
B315-2	2.50	4.50	7.7	10.0	15.3			
B432-2	1.33	2.30	4.0	5.3	8.0	9.5		
B416-2	1.33	2.30	4.0	5.3	8.0	9.5		
B442-3	1.10	2.00	3.7	5.0	7.5	9.0		
B414-3	1.10	2.00	3.7	5.0	7.5	9.0		
B456-4	1.40	2.50	4.4	6.0	9.0	10.9		
B414-4	1.40	2.50	4.4	6.0	9.0	10.9		
B530-2	0.50	1.00	1.9	2.5	3.9	4.8	5.5	
B515-2	0.50	1.00	1.9	2.5	3.9	4.8	5.5	
B545-3	0.70	1.40	2.4	3.3	5.2	6.4	7.2	
B515-3	0.70	1.40	2.4	3.3	5.2	6.4	7.2	
B560-4	1.00	1.80	3.3	4.4	6.9	8.4	9.5	
B515-4	1.00	1.80	3.3	4.4	6.9	8.4	9.5	
B636-2	0.50	1.00	1.7	2.3	3.7	4.4	5.0	
B618-2	0.50	1.00	1.7	2.3	3.7	4.4	5.0	
B642-2	0.60	1.10	2.0	2.7	4.0	5.0		
B621-2	0.60	1.10	2.0	2.7	4.0	5.0		
B645-3	0.40	0.80	1.4	2.0	3.2	3.9	4.6	
B615-3	0.40	0.80	1.4	2.0	3.2	3.9	4.6	
B648-2	0.80	1.50	2.5	3.4	5.1	6.1		
B624-2	0.80	1.50	2.5	3.4	5.1	6.1		
B660-4	0.50	0.90	1.7	2.3	3.7	4.6	5.2	
B615-4	0.50	0.90	1.7	2.3	3.7	4.6	5.2	
B840-2	0.40	0.70	1.3	1.8	2.9	3.7	4.2	
B820-2	0.40	0.70	1.3	1.8	2.9	3.7	4.2	
B848-3	0.20	0.40	0.7	1.0	1.7	2.2	2.5	2.9
B816-3	0.20	0.40	0.7	1.0	1.7	2.2	2.5	2.9
B864-4	0.20	0.40	0.7	1.0	1.7	2.2	2.5	
B816-4	0.20	0.40	0.7	1.0	1.7	2.2	2.5	
B872-4	0.40	0.70	1.2	1.8	2.8	3.6	4.2	
B818-4	0.40	0.70	1.2	1.8	2.8	3.6	4.2	
B1060-3	0.17	0.30	0.6	0.8	1.3	1.7	1.9	2.3
B1020-3	0.17	0.30	0.6	0.8	1.3	1.7	1.9	2.3
B1060-4	0.10	0.20	0.4	0.5	0.9	1.2	1.4	1.8
B1015-4	0.10	0.20	0.4	0.5	0.9	1.2	1.4	1.8
B1090-6	0.14	0.25	0.5	0.7	1.2	1.7	1.9	2.3
B1015-6	0.14	0.25	0.5	0.7	1.2	1.7	1.9	2.3
B1236-2	0.05	0.11	0.2	0.3	0.5	0.6	0.8	1.0
B1218-2	0.05	0.11	0.2	0.3	0.5	0.6	0.8	1.0
B1254-3	0.07	0.15	0.3	0.4	0.7	0.9	1.0	1.3
B1218-3	0.07	0.15	0.3	0.4	0.7	0.9	1.0	1.3
B1272-4	0.07	0.15	0.3	0.4	0.7	0.9	1.1	1.4
B1218-4	0.07	0.15	0.3	0.4	0.7	0.9	1.1	1.4
B1272-6	0.06	0.11	0.2	0.3	0.6	0.8	1.0	1.2
B1212-6	0.06	0.11	0.2	0.3	0.6	0.8	1.0	1.2

Steel

Catalog Number	Revolutions per Minute							
	50	100	200	300	600	900	1200	1800
BS636-2	0.9	1.70	3.00	4.10	6.40	8.00	9.00	
BS618-2	0.9	1.70	3.00	4.10	6.40	8.00	9.00	
BS840-2	0.5	0.90	1.50	2.10	3.50	4.40	5.00	
BS820-2	0.5	0.90	1.50	2.10	3.50	4.40	5.00	
BS1030-15	0.2	0.40	0.70	1.00	1.70	2.10	2.30	2.9
BS1020-15	0.2	0.40	0.70	1.00	1.70	2.10	2.30	2.9
BS1040-2	0.25	0.50	0.90	1.30	2.10	2.70	3.00	3.7
BS1020-2	0.25	0.50	0.90	1.30	2.10	2.70	3.00	3.7
BS1050-2	0.33	0.64	1.20	1.60	2.50	3.20	3.70	
B 1025-2	0.33	0.64	1.20	1.60	2.50	3.20	3.70	
BS1060-3	0.3	0.50	1.00	1.40	2.40	3.00	3.50	4.3
BS1020-3	0.3	0.50	1.00	1.40	2.40	3.00	3.50	4.3
BS1227-15	0.09	0.17	0.33	0.50	0.80	1.00	1.20	1.6
BS1218-15	0.09	0.17	0.33	0.50	0.80	1.00	1.20	1.6
BS1236-2	0.12	0.25	0.40	0.60	1.00	1.40	1.70	2.0
BS1218-2	0.12	0.25	0.40	0.60	1.00	1.40	1.70	2.0
BS1236-2A	0.12	0.25	0.40	0.60	1.00	1.40	1.70	2.0
BS1218-2A	0.12	0.25	0.40	0.60	1.00	1.40	1.70	2.0
BS1248-2	0.18	0.37	0.70	0.90	1.60	2.00	2.30	2.8
B1224-2	0.18	0.37	0.70	0.90	1.60	2.00	2.30	2.8
BS1254-3	0.14	0.28	0.50	0.70	1.20	1.60	1.90	2.3
B1218-3	0.14	0.28	0.50	0.70	1.20	1.60	1.90	2.3
BS1428-2	0.05	0.08	0.16	0.20	0.40	0.54	0.70	0.8
BS1414-2	0.05	0.08	0.16	0.20	0.40	0.54	0.70	0.8
BS1624-2	0.02	0.03	0.05	0.08	0.14	0.20	0.25	0.3
BS1612-2	0.02	0.03	0.05	0.08	0.14	0.20	0.25	0.3
BS1624-15	0.03	0.05	0.09	0.14	0.25	0.33	0.40	0.5
BS1612-15	0.03	0.05	0.09	0.14	0.25	0.33	0.40	0.5
BS1632-2	0.03	0.08	0.14	0.20	0.37	0.50	0.60	0.8
BS1616-2	0.03	0.08	0.14	0.20	0.37	0.50	0.60	0.8
BS1648-3	0.05	0.09	0.17	0.25	0.50	0.60	0.80	1.0
BS1616-3	0.05	0.09	0.17	0.25	0.50	0.60	0.80	1.0
BS1664-4	0.05	0.10	0.20	0.33	0.50	0.70	0.90	1.1
BS1616-4	0.05	0.10	0.20	0.33	0.50	0.70	0.90	1.1

Miter Gears

20° Pressure Angle



Miter Gears are ordinarily used as right angle drives, transmitting horsepower between intersecting shafts at a 1:1 ratio. They are used where high efficiency is required. Only miters of the same number of teeth, pitch, and pressure angle can be operated together. More than two miters may be used in sets, as in a differential.

The thrust of Miter Gears causes the gears to separate; therefore, ball bearings or roller bearings should be used rather than sleeve bearings. Provisions should be made using thrust bearings to absorb backward thrust.

All standard stock Miter Gears must be mounted at right angles (90 degrees) for proper tooth bearing.

All *Martin* Miter and Bevel Gears are generated with the Coniflex tooth form. A slight misalignment of gears is permissible because of the localized tooth bearing running lengthwise along the gear tooth.

The mounting distance must be held in order to maintain proper backlash between gears. This will also insure that the ends of the gear

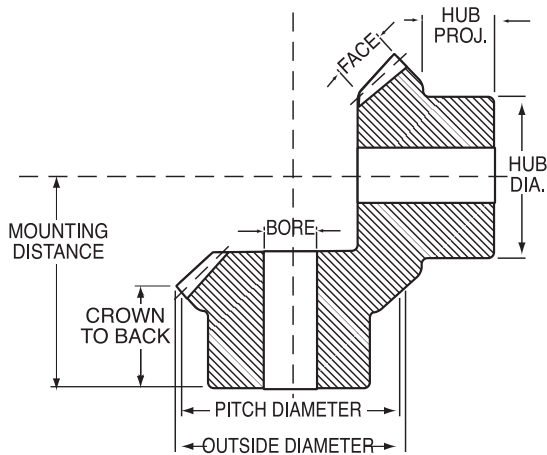
teeth will be flush with each other. The use of a straight mineral oil as a lubricant is recommended for most Miter Gear applications.

Martin Stock Miter Gears are manufactured from .40 carbon steel.

The "M" Series is furnished unhardened with plain bore.
The "HM" Series is furnished hardened teeth with plain bore.
The "HMK" Series is furnished hardened teeth with keyway and setscrew for installation on the shaft.

Hardened Miter Gears have approximately 50% more horsepower capacity and provide greater gear wear than untreated gears.

All *Martin* Miter Gears are cut with the 20° pressure angle system. They will not operate with any other pressure angle system.



Steel - Plain Bore — Unhardened Teeth

Number Teeth	Catalog Number	Diameter		Face (Inches)	Bore (Inches)		Mounting (Inches)	Hub (Inches)		Wt. Lbs. (App.)
		Pitch	Outside		Diameter	Length		Diameter	Proj. (App.)	

4 Pitch

24	M424	6.00	6.36	1.33	1½	3/16	5½	4	1 1/16	14.4
24	M424A	6.00	6.36	1.33	1½	3/16	5½	4	1 1/16	13.7
28	M428	7.00	7.36	1.43	2	3/8	6	5	1 1/16	21.1

5 Pitch

25	M525	5.00	5.29	1.10	1½	3	4¾	3½	1¾	8.5
25	M525A	5.00	5.29	1.10	1½	3	4¾	3½	1¾	8.3
25	M525B	5.00	5.29	1.10	1½	3	4¾	3½	1¾	7.8

6 Pitch

24	M624	4.00	4.24	0.86	1¼	2 1/16	3¾	3	1 1/16	4.4
24	M624A	4.00	4.24	0.86	1½	2 1/16	3¾	3	1 1/16	4.3
27	M627	4.50	4.74	0.96	1¼	2¾	4¼	3¼	1½	6.3
27	M627A	4.50	4.74	0.96	1½	2¾	4¼	3¼	1½	5.9

8 Pitch

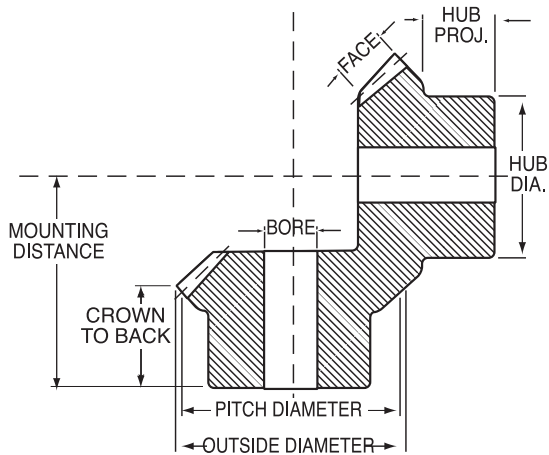
24	M824	3.00	3.18	0.64	¾	1 3/4	2 1/16	1¾	1 1/16	1.5
24	M824A	3.00	3.18	0.64	1	1 3/4	2¾	2½	1	2.1
24	M824B	3.00	3.18	0.64	1¼	1 3/4	2¾	2½	1	1.9
28	M828	3.50	3.68	0.75	1	2 1/2	3¼	2½	1¼	2.9
28	M828A	3.50	3.68	0.75	1 1/16	2 1/2	3¼	2½	1¼	2.8
28	M828B	3.50	3.68	0.75	1¼	2 1/2	3¼	2½	1¼	2.6
32	M832	4.00	4.18	0.84	1	2 1/2	3¾	3	1¾	4.8

10 Pitch

20	M1020A	2.00	2.14	0.44	½	1 3/4	2	1¾	¾	0.75
20	M1020B	2.00	2.14	0.44	¾	1 3/4	2	1¾	¾	0.72
20	M1020	2.00	2.14	0.44	¾	1 3/4	2	1¾	¾	0.67
20	M1020C	2.00	2.14	0.44	¾	1 3/4	2	1¾	¾	0.58
25	M1025	2.50	2.64	0.55	¾	1¾	2 1/16	2	¾	1.20
25	M1025A	2.50	2.64	0.55	¾	1¾	2 1/16	2	¾	1.20
25	M1025B	2.50	2.64	0.55	1	1¾	2 1/16	2	¾	1.20
30	M1030	3.00	3.14	0.64	¾	1¾	2¾	2	1	1.80

Miter Gears

20° Pressure Angle



Steel - Plain Bore — Unhardened Teeth

Number Teeth	Catalog Number	Diameter		Face (Inches)	Bore (Inches)		Mounting (Inches)	Hub (Inches)		Wt. Lbs. (App.)
		Pitch	Outside		Diameter	Length		Diameter	Proj. (App.)	

12 Pitch

15	M1215	1.25	1.37	0.27	$\frac{3}{8}$	$\frac{5}{16}$	$1\frac{1}{4}$	1	$\frac{1}{2}$	0.17
15	M1215A	1.25	1.37	0.27	$\frac{7}{16}$	$\frac{5}{16}$	$1\frac{1}{4}$	1	$\frac{1}{2}$	0.16
15	M1215B	1.25	1.37	0.27	$\frac{1}{2}$	$\frac{5}{16}$	$1\frac{1}{4}$	1	$\frac{1}{2}$	0.15
18	M1218	1.50	1.62	0.32	$\frac{1}{2}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{1}{4}$	$\frac{3}{8}$	0.30
18	M1218A	1.50	1.62	0.32	$\frac{5}{8}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{1}{4}$	$\frac{3}{8}$	0.25
18	M1218B	1.50	1.62	0.32	$\frac{3}{4}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{1}{4}$	$\frac{3}{8}$	0.22
21	M1221	1.75	1.87	0.39	$\frac{1}{2}$	$1\frac{1}{8}$	1 $\frac{3}{4}$	1 $\frac{3}{8}$	$\frac{1}{16}$	0.45
21	M1221A	1.75	1.87	0.39	$\frac{5}{8}$	$1\frac{1}{8}$	1 $\frac{3}{4}$	1 $\frac{3}{8}$	$\frac{1}{16}$	0.45
21	M1221B	1.75	1.87	0.39	$\frac{3}{4}$	$1\frac{1}{8}$	1 $\frac{3}{4}$	1 $\frac{3}{8}$	$\frac{1}{16}$	0.43
21	M1221C	1.75	1.87	0.39	$\frac{3}{4}$	$1\frac{1}{8}$	1 $\frac{3}{4}$	1 $\frac{3}{8}$	$\frac{1}{16}$	0.38
24	M1224	2.00	2.12	0.43	$\frac{1}{2}$	$1\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	$\frac{1}{16}$	0.62
30	M1230	2.50	2.62	0.54	$\frac{5}{8}$	$1\frac{3}{4}$	2 $\frac{1}{8}$	1 $\frac{3}{4}$	$\frac{3}{32}$	1.10

14 Pitch

14	M1414	1.00	1.11	0.19	$\frac{3}{8}$	$\frac{7}{16}$	$1\frac{1}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	0.10
14	M1414A	1.00	1.11	0.19	$\frac{7}{16}$	$\frac{7}{16}$	$1\frac{1}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	0.09

16 Pitch

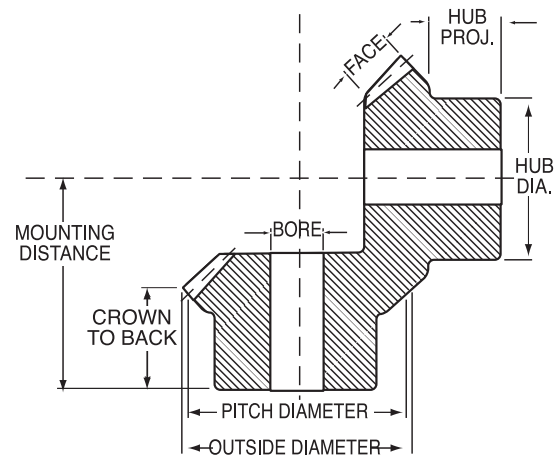
12	M1612	0.75	0.84	0.16	$\frac{3}{16}$	$\frac{3}{16}$	$\frac{7}{16}$	$\frac{3}{8}$	$\frac{3}{8}$	0.05
16	M1616	1.00	1.09	0.22	$\frac{3}{8}$	$\frac{3}{8}$	$1\frac{1}{16}$	$\frac{3}{8}$	$\frac{3}{16}$	0.07
20	M1620	1.25	1.34	0.27	$\frac{7}{16}$	$\frac{7}{16}$	$1\frac{1}{4}$	1	$\frac{1}{2}$	0.16
24	M1624	1.50	1.59	0.31	$\frac{1}{2}$	$\frac{7}{8}$	1 $\frac{3}{8}$	1	$\frac{1}{2}$	0.20

20 Pitch

20	M2020	1.00	1.07	0.23	$\frac{3}{8}$	$\frac{1}{16}$	$1\frac{1}{8}$	$\frac{3}{4}$	$\frac{1}{2}$	0.06
25	M2025	1.25	1.32	0.25	$\frac{3}{8}$	$\frac{3}{4}$	$1\frac{1}{16}$	1	$\frac{3}{8}$	0.14

24 Pitch

24	M2424	1.00	1.06	0.20	$\frac{1}{4}$	$\frac{3}{16}$	$\frac{3}{16}$	$\frac{3}{8}$	$\frac{3}{16}$	0.12
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Steel - Plain Bore — Hardened Teeth

Number Teeth	Catalog Number	Diameter		Face (Inches)	Bore (Inches)		Mounting (Inches)	Hub (Inches)		Wt. Lbs. (App.)
		Pitch	Outside		Diameter	Length		Diameter	Proj. (App.)	

4 Pitch

24	HM424	6.00	6.36	1.33	1½	3 ³ / ₁₆	5½	4	1 ¹ / ₁₆	14.4
24	HM424A	6.00	6.36	1.33	1¾	3 ³ / ₁₆	5½	4	1 ¹ / ₁₆	13.7
28	HM428	7.00	7.36	1.43	2	3 ³ / ₁₆	6	5	1 ¹ / ₁₆	21.1

5 Pitch

25	HM525	5.00	5.29	1.10	1½	3	4 ¹ / ₁₆	3½	1¾	8.5
25	HM525A	5.00	5.29	1.10	1½	3	4 ¹ / ₁₆	3½	1¾	8.3
25	HM525B	5.00	5.29	1.10	1¾	3	4 ¹ / ₁₆	3½	1¾	7.5

6 Pitch

24	HM624	4.00	4.24	0.86	1¼	2 ⁵ / ₁₆	3 ³ / ₁₆	3	1 ¹ / ₁₆	4.4
24	HM624A	4.00	4.24	0.86	1½	2 ⁵ / ₁₆	3 ³ / ₁₆	3	1 ¹ / ₁₆	4.0
27	HM627	4.50	4.74	0.96	1¼	2 ⁵ / ₁₆	4 ¹ / ₁₆	3¾	1½	6.3
27	HM627A	4.50	4.74	0.96	1½	2 ⁵ / ₁₆	4 ¹ / ₁₆	3¾	1½	5.9

8 Pitch

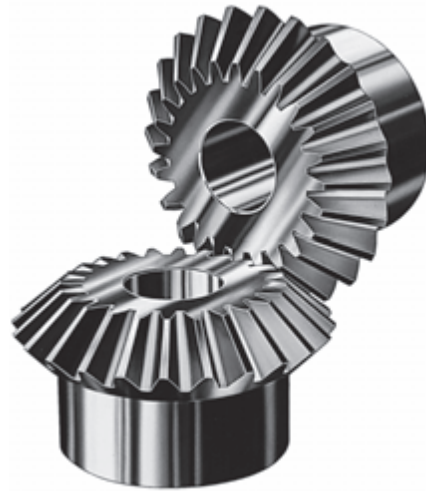
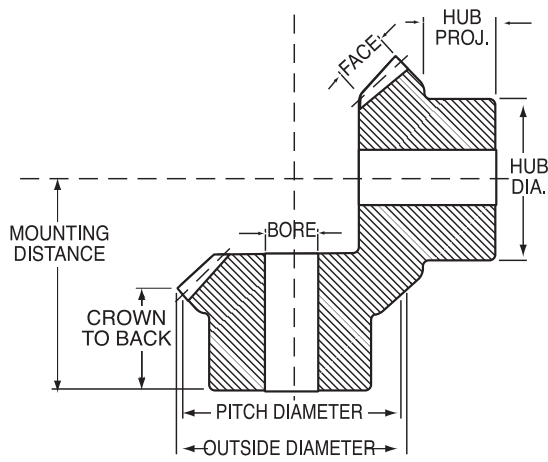
24	HM824	3.00	3.18	0.64	¾	1 ³ / ₆₄	2 ¹ / ₁₆	1¾	¾	1.5
24	HM824A	3.00	3.18	0.64	1	1 ⁹ / ₆₄	2¾	2½	1	2.1
24	HM824B	3.00	3.18	0.64	1¼	1 ¹ / ₆₄	2¾	2½	1	2.6
28	HM828	3.50	3.68	0.75	1	2 ³ / ₃₂	3¼	2½	1¼	3.0
28	HM828A	3.50	3.68	0.75	1 ¹ / ₁₆	2 ³ / ₃₂	3¼	2½	1¼	2.8
28	HM828B	3.50	3.68	0.75	1¼	2 ³ / ₃₂	3¼	2½	1¼	2.6
32	HM832	4.00	4.18	0.85	1	2 ³ / ₃₂	3 ³ / ₁₆	3	1½	4.7

10 Pitch

20	HM1020A	2.00	2.14	0.44	½	1 ³ / ₆₄	2	1¾	¾	0.76
20	HM1020B	2.00	2.14	0.44	¾	1 ³ / ₆₄	2	1¾	¾	0.70
20	HM1020	2.00	2.14	0.44	¾	1 ³ / ₆₄	2	1¾	¾	0.64
20	HM1020C	2.00	2.14	0.44	¾	1 ³ / ₆₄	2	1¾	¾	0.58
25	HM1025	2.50	2.64	0.55	¾	1 ¹ / ₁₆	2 ¹ / ₁₆	2	¾	1.30
25	HM1025A	2.50	2.64	0.55	¾	1 ¹ / ₁₆	2 ¹ / ₁₆	2	¾	1.20
25	HM1025B	2.50	2.64	0.55	1	1 ¹ / ₁₆	2 ¹ / ₁₆	2	¾	1.20
30	HM1030	3.00	3.14	0.64	¾	1 ¹ / ₁₆	2¾	2	1	1.80

Miter Gears

20° Pressure Angle



Steel - Plain Bore — Hardened Teeth

Number Teeth	Catalog Number	Diameter		Face (Inches)	Bore (Inches)		Mounting (Inches)	Hub (Inches)		Wt. Lbs. (App.)
		Pitch	Outside		Diameter	Length		Diameter	Proj. (App.)	

12 Pitch

15	HM1215	1.25	1.37	0.27	$\frac{3}{8}$	$\frac{5}{16}$	$1\frac{1}{4}$	1	$\frac{1}{2}$	0.15
15	HM1215B	1.25	1.37	0.27	$\frac{1}{2}$	$\frac{5}{16}$	$1\frac{1}{4}$	1	$\frac{1}{2}$	0.15
18	HM1218	1.50	1.62	0.32	$\frac{1}{2}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{1}{4}$	$\frac{5}{8}$	0.30
18	HM1218A	1.50	1.62	0.32	$\frac{3}{8}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{1}{4}$	$\frac{5}{8}$	0.25
18	HM1218B	1.50	1.62	0.32	$\frac{3}{4}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{1}{4}$	$\frac{5}{8}$	0.22
21	HM1221	1.75	1.87	0.39	$\frac{1}{2}$	$1\frac{3}{16}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{16}$	0.22
21	HM1221B	1.75	1.87	0.39	$\frac{3}{8}$	$1\frac{3}{16}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{16}$	0.42
24	HM1224	2.00	2.12	0.43	$\frac{1}{2}$	$1\frac{1}{32}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{16}$	0.62
30	HM1230	2.50	2.62	0.54	$\frac{5}{8}$	$1\frac{3}{16}$	$2\frac{1}{16}$	$1\frac{3}{4}$	$2\frac{1}{32}$	1.10

14 Pitch

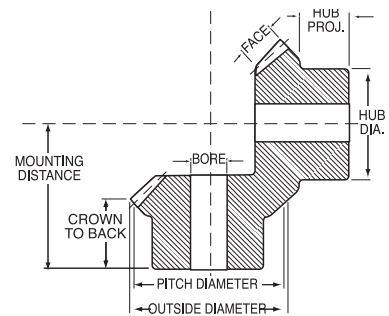
14	HM1414	1.00	1.11	0.19	$\frac{3}{8}$	$\frac{4}{16}$	$1\frac{1}{16}$	$\frac{7}{8}$	$\frac{1}{2}$	0.10
14	HM1414A	1.00	1.11	0.19	$\frac{1}{4}$	$\frac{4}{16}$	$1\frac{1}{16}$	$\frac{7}{8}$	$\frac{1}{2}$	0.10

16 Pitch

16	HM1616	1.00	1.09	0.22	$\frac{3}{8}$	$\frac{3}{4}$	$1\frac{1}{16}$	$\frac{3}{4}$	$\frac{7}{16}$	0.07
24	HM1624	1.50	1.59	0.31	$\frac{1}{2}$	$\frac{7}{8}$	1	1	$\frac{1}{2}$	0.20

24 Pitch

24	HM2424	1.00	1.06	0.20	$\frac{1}{4}$	$\frac{9}{16}$	$2\frac{1}{32}$	$\frac{5}{8}$	$\frac{3}{32}$	0.06
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Steel - Furnished With Keyway and Set Screw — Hardened Teeth

Number Teeth	Catalog Number	Diameter		Face (Inches)	Bore (Inches)		Mounting (Inches)	Hub (Inches)		Wt. Lbs. (App.)
		Pitch	Outside		Diameter	Length		Diameter	Proj. (App.)	

4 Pitch

24	HMK424A	6.00	6.36	1.33	1 $\frac{1}{4}$	3 $\frac{3}{16}$	5 $\frac{1}{2}$	4	1 $\frac{1}{16}$	13.7
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5 Pitch

25	HMK525	5.00	5.29	1.10	1 $\frac{1}{4}$	3	4 $\frac{1}{2}$	3 $\frac{1}{2}$	1 $\frac{1}{4}$	8.5
25	HMK525B	5.00	5.29	1.10	1 $\frac{1}{4}$	3	4 $\frac{1}{2}$	3 $\frac{1}{2}$	1 $\frac{1}{4}$	7.5

6 Pitch

24	HMK624	4.00	4.24	0.86	1 $\frac{1}{4}$	2 $\frac{1}{16}$	3 $\frac{3}{8}$	3	1 $\frac{1}{16}$	4.4
24	HMK624A	4.00	4.24	0.86	1 $\frac{1}{2}$	2 $\frac{1}{16}$	3 $\frac{3}{8}$	3	1 $\frac{1}{16}$	4.0
27	HMK627	4.50	4.74	0.96	1 $\frac{1}{4}$	2 $\frac{1}{8}$	4 $\frac{1}{8}$	3 $\frac{1}{4}$	1 $\frac{1}{2}$	6.3
27	HMK627A	4.50	4.74	0.96	1 $\frac{1}{2}$	2 $\frac{1}{8}$	4 $\frac{1}{8}$	3 $\frac{1}{4}$	1 $\frac{1}{2}$	5.9

8 Pitch

24	HMK824	3.00	3.18	0.64	$\frac{3}{4}$	1 $\frac{3}{4}$	2 $\frac{1}{16}$	1 $\frac{1}{4}$	$\frac{1}{16}$	1.5
24	HMK824A	3.00	3.18	0.64	1	1 $\frac{1}{4}$	2 $\frac{1}{8}$	2 $\frac{1}{2}$	1	2.1
24	HMK824B	3.00	3.18	0.64	1 $\frac{1}{4}$	1 $\frac{1}{4}$	2 $\frac{1}{4}$	2 $\frac{1}{2}$	1	1.8
28	HMK828	3.50	3.68	0.75	1	2 $\frac{3}{32}$	3 $\frac{1}{4}$	2 $\frac{1}{2}$	1 $\frac{1}{4}$	2.9
28	HMK828A	3.50	3.68	0.75	1 $\frac{1}{16}$	2 $\frac{1}{32}$	3 $\frac{1}{4}$	2 $\frac{1}{2}$	1 $\frac{1}{4}$	2.7
28	HMK828B	3.50	3.68	0.75	1 $\frac{1}{4}$	2 $\frac{1}{32}$	3 $\frac{1}{4}$	2 $\frac{1}{2}$	1 $\frac{1}{4}$	2.6

10 Pitch

20	HMK1020A	2.00	2.14	0.44	$\frac{1}{2}$	1 $\frac{3}{4}$	2	1 $\frac{1}{8}$	$\frac{1}{16}$	0.74
20	HMK1020B	2.00	2.14	0.44	$\frac{5}{8}$	1 $\frac{3}{4}$	2	1 $\frac{1}{8}$	$\frac{1}{16}$	0.70
20	HMK1020	2.00	2.14	0.44	$\frac{3}{4}$	1 $\frac{3}{4}$	2	1 $\frac{1}{8}$	$\frac{1}{16}$	0.63
20	HMK1020C	2.00	2.14	0.44	$\frac{7}{8}$	1 $\frac{3}{4}$	2	1 $\frac{1}{8}$	$\frac{1}{16}$	0.58
25	HMK1025	2.50	2.64	0.55	$\frac{3}{4}$	1 $\frac{1}{8}$	2 $\frac{1}{16}$	2	$\frac{1}{16}$	1.30
25	HMK1025A	2.50	2.64	0.55	$\frac{1}{2}$	1 $\frac{1}{8}$	2 $\frac{1}{16}$	2	$\frac{1}{16}$	1.20
25	HMK1025B	2.50	2.64	0.55	1	1 $\frac{1}{8}$	2 $\frac{1}{16}$	2	$\frac{1}{16}$	1.10

12 Pitch

15	HMK1215B	1.25	1.37	0.27	$\frac{1}{2}$	$\frac{5}{16}$	1 $\frac{1}{4}$	1	$\frac{1}{2}$	0.14
18	HMK1218A	1.50	1.62	0.32	$\frac{5}{8}$	1 $\frac{1}{4}$	1 $\frac{1}{2}$	1 $\frac{1}{4}$	$\frac{3}{8}$	0.25
21	HMK1221B	1.75	1.87	0.39	$\frac{5}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{4}$	1 $\frac{1}{8}$	$\frac{1}{16}$	0.41
30	HMK1230	2.50	2.62	0.54	$\frac{5}{8}$	1 $\frac{3}{4}$	2 $\frac{1}{16}$	1 $\frac{1}{4}$	$\frac{1}{32}$	1.10

16 Pitch

16	HMK1616	1.00	1.09	0.22	$\frac{3}{8}$	$\frac{3}{8}$	1 $\frac{1}{16}$	$\frac{3}{4}$	$\frac{1}{16}$	0.07
24	HMK1624	1.50	1.59	0.31	$\frac{1}{2}$	$\frac{1}{8}$	1 $\frac{1}{8}$	1	$\frac{1}{2}$	0.20

Miter Gear Horsepower Ratings



STEEL

Catalog Number	Revolutions Per Minute									
	10	25	50	100	200	300	600	900	1200	1800
M424	0.80	1.90	3.60	6.40	10.60	13.5	18.8	21.5	23.0	
HM424	1.40	3.33	6.30	11.20	18.60	23.6	33.0	38.0	40.0	
M428	1.07	2.50	4.80	8.40	13.60	17.2	23.3	26.5	28.5	
HM428	1.90	4.50	8.40	14.70	23.80	30.0	40.0	46.0	50.0	
M525	0.45	1.05	2.00	3.70	6.30	8.1	11.6	13.6	15.0	
HM525	0.75	1.90	3.60	6.50	11.00	14.2	20.0	24.0	26.0	
M624	0.25	0.55	1.10	2.00	3.50	4.6	6.9	8.2	19.0	10.2
HM624	0.40	1.00	1.90	3.50	6.10	8.0	12.0	14.5	16.0	18.0
M627	0.30	0.75	1.40	2.50	4.30	5.7	8.5	9.9	11.0	12.0
HM627	0.50	1.33	2.50	4.40	7.50	10.0	1.5	17.5	19.0	21.0
M824	0.10	0.25	0.50	0.90	1.50	2.1	3.3	4.0	4.5	5.3
HM824	0.20	0.40	0.80	1.50	2.60	3.7	5.8	7.0	8.0	9.3
M828	0.15	0.33	0.70	1.20	2.20	2.9	4.4	5.3	6.0	6.8
HM828	0.25	0.60	1.20	2.10	3.90	5.0	7.7	9.3	10.5	12.0
M832	0.20	0.45	0.90	1.60	2.80	3.7	5.5	6.5	7.2	8.0
HM832	0.33	0.80	1.50	2.80	4.90	6.5	9.6	11.4	12.5	14.2
M1020	0.03	0.08	0.20	0.30	0.60	0.8	1.3	1.7	2.0	2.4
HM1020	0.05	0.15	0.30	0.50	1.00	1.4	2.3	3.0	3.5	4.2
M1025	0.06	0.15	0.30	0.50	0.90	1.3	2.0	2.5	2.9	3.5
HM1025	0.10	0.25	0.50	0.90	1.60	2.3	3.5	4.4	5.0	6.0
M1030	0.08	0.20	0.40	0.70	1.30	1.8	2.8	3.5	3.9	4.5
HM1030	0.15	0.33	0.70	1.30	2.30	3.2	4.9	6.1	6.8	8.0
M1215	0.01	0.02	0.05	0.10	0.20	0.3	0.5	0.6	0.8	0.9
HM1215	0.02	0.04	0.10	0.17	0.33	0.4	0.8	1.0	1.3	1.6
M1218	0.01	0.03	0.08	0.14	0.25	0.4	0.7	0.9	1.0	1.3
HM1218	0.02	0.05	0.15	0.25	0.47	0.7	1.1	1.5	1.8	2.2
M1221	0.02	0.05	0.11	0.20	0.40	0.5	0.9	1.2	1.4	1.7
HM1221	0.04	0.10	0.20	0.33	0.70	1.0	1.6	2.1	2.5	3.0
M1224	0.03	0.07	0.15	0.25	0.50	0.7	1.2	1.5	1.7	2.0
HM1224	0.05	0.12	0.25	0.47	0.90	1.2	2.1	2.6	3.0	3.5
M1230	0.05	0.12	0.25	0.44	0.80	1.1	1.8	2.2	2.5	3.0
HM1230	0.09	0.21	0.40	0.75	1.40	1.9	3.2	4.0	4.4	5.3
M1414		0.01	0.02	0.05	0.09	0.1	0.2	0.3	0.4	0.5
HM1414		0.02	0.04	0.09	0.16	0.2	0.4	0.6	0.7	0.9
M1616		0.01	0.02	0.05	0.09	0.1	0.2	0.3	0.4	0.5
HM1616		0.02	0.04	0.09	0.16	0.2	0.4	0.6	0.7	0.9
M1620		0.02	0.04	0.08	0.14	0.2	0.4	0.5	0.6	0.8
HM1620		0.04	0.07	0.15	0.25	0.4	0.7	0.9	1.0	1.3
M1624		0.03	0.06	0.12	0.20	0.3	0.5	0.7	0.8	1.0
HM1624		0.05	0.10	0.21	0.40	0.5	0.9	1.2	1.4	1.8
M2020		0.01	0.02	0.04	0.08	0.1	0.2	0.2	0.4	0.5
HM2020		0.02	0.04	0.07	0.14	0.2	0.4	0.5	0.6	0.8
M2025		0.02	0.03	0.06	0.12	0.2	0.3	0.4	0.5	0.6
HM2025		0.04	0.05	0.10	0.21	0.3	0.5	0.7	0.9	1.0

Ratings listed to right of dark line exceed recommended pitch line velocity.



Right Hand Worm and Gear



Single, Double, Quadruple Thread Worms

★NOTE: SELF-LOCKING ABILITY

There is often some confusion as to the self-locking ability of a worm and gear set. *Martin* worm gear sets, under no condition should be considered to hold a load when at rest. The statement is made to cover the broad spectrum of variables affecting self-locking characteristics of a particular gear set in a specific application. Theoretically, a worm gear will not back drive if the friction angle is greater than the worm lead angle. However, the actual surface finish and lubrication may reduce this significantly. More important, vibration may cause motion at the point of mesh with further reduction in the friction angle.

Generally speaking, if the worm lead angle is less than 5°, there is reasonable expectation of self-locking. Again, no guarantee should be made and customer should be advised. **If safety is involved, a positive brake should be used.**

Originally, worm gearing was used to secure, by compact means, a large reduction of speed between driving and driven shafts with a proportionate increase (except for frictional loss) in the torque of the driven shaft. Worm gearing is still used for this purpose, and frequently the wheel is driven by a single-thread worm of such low helix angle that the drive cannot be reversed; that is the wheel cannot drive the worm as the gearing automatically locks itself against backward rotation. (*See note below.)

Although a multiple-threaded worm when applied under like conditions is much more efficient than a single-threaded worm, it does not follow that the multiple-threaded worm should always be used.

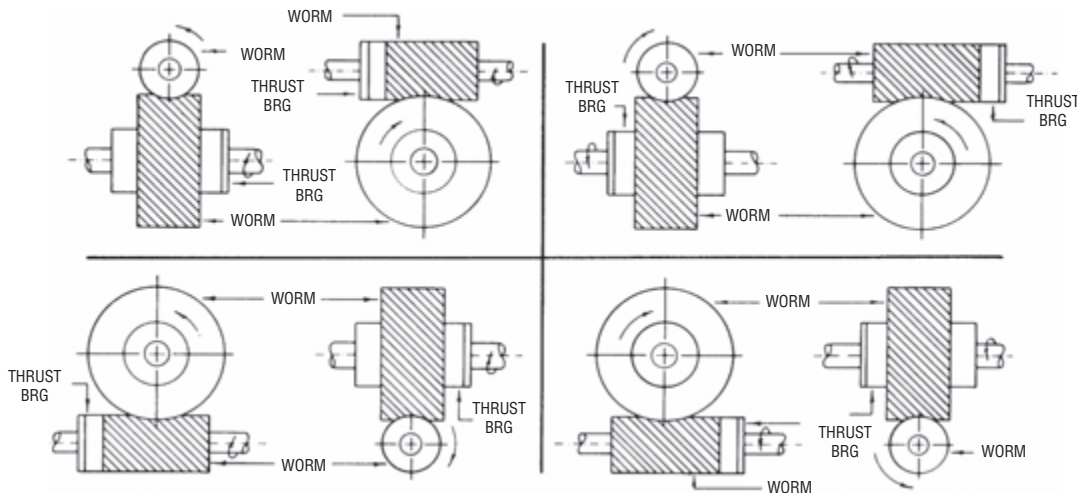
A single-threaded worm might be preferable when the most important requirement is to obtain a high ratio and especially if the worm must be self-locking.

When power is the primary factor, the multiple-threaded worms should be used.

LUBRICATION is an important factor when using worm gearing. An increase in heat generated means a decrease in efficiency. The amount of power which can be transmitted at a given temperature increases as the efficiency of the gearing increases.

MATERIALS for worm and worm gears are generally confined to steel for worms and bronze or cast iron for gears. When steel worms are run with bronze gears at high speeds, the worm is usually hardened with ground threads.

Direction of Rotation and Thrust Right Hand

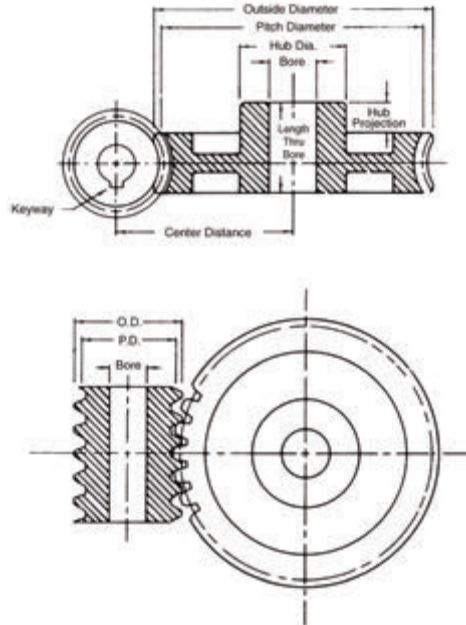


Worm and Worm Gears

3 Pitch • 2" Face • 14½° Pressure Angle



Right Hand Single Thread (Stocked Right Hand Only)



Cast Iron

No. Teeth	Catalog Number Cast Iron	Wt. Lbs. (App.)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Style
					Dia.	Proj.	
18	W318	16.2	6.000	1	3	1½	W
24	W324	22.8	8.000	1½	3½	1½	S
30	W330	30.2	10.000	1½	3¾	1½	S
36	W336	36.4	12.000	1½	3½	1½	S
54	W354	60.2	18.000	1½	4	1½	S

W = WEB S = SPOKE

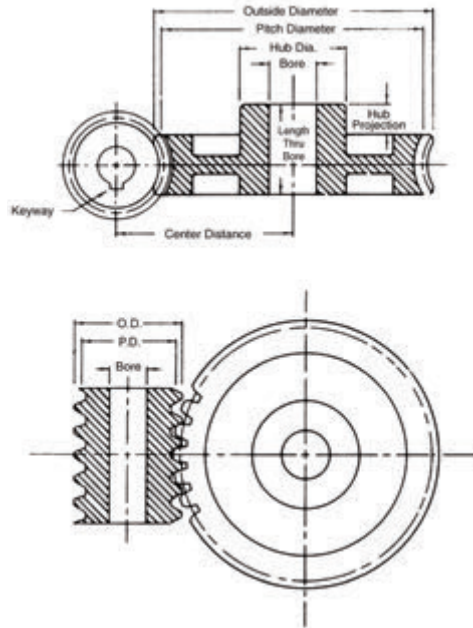


Steel — 4° 46' Helix Angle Worms

Catalog Number Soft	Wt. Lbs. (App.)	Catalog Number Hardened	Wt. Lbs. (App.)	Faces (Inches)	Pitch Dia.	Bore (Inches)	Keyway (Inches)
W3	12.2	WG3	12.0	4	4.000	1½	¾ x ¾

Case hardened worms have ground and polished threads (Indicated by letter "G" in catalog number).
Please Note: Stock Bore sizes on ground worms may be difficult to modify.

Right Hand Single Thread (Stocked Right Hand Only)



Cast Iron

No. Teeth	Catalog Number Cast Iron	Wt. Lbs. (App.)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Style
					Dia.	Proj.	
20	W420	8.4	5.000	1	2½	1¼	W
24	W424	12.9	6.000	1	2½	1¼	W
32	W432	15.6	8.000	1¼	3	1¼	W
40	W440	27.5	10.000	1¼	3	1¼	W
48	W448	34.1	12.000	1½	4	1¼	W
64	W464	43.9	16.000	1½	4	1¼	S

W = WEB S = SPOKE



Steel — 4° 46' Helix Angle Worms

Catalog Number Soft	Wt. Lbs. (App.)	Catalog Number Hardened	Wt. Lbs. (App.)	Faces (Inches)	Pitch Dia.	Bore (Inches)	Keyway (Inches)
W4	5.6	WG4	5.5	3½	3.000	1¼	⅜ × ⅜

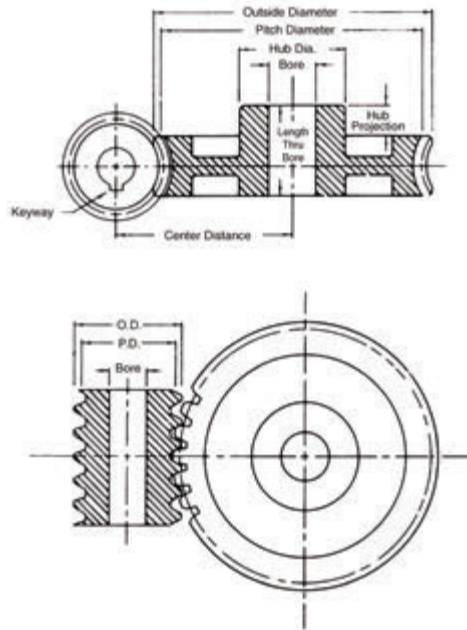
Case hardened worms have ground and polished threads (Indicated by letter "G" in catalog number). Please Note: Stock Bore sizes on ground worms may be difficult to modify.

Worm and Worm Gears

6 Pitch • 1" Face • 14½° Pressure Angle



Right Hand Single Thread (Stocked Right Hand Only)



Cast Iron

No. Teeth	Catalog Number Cast Iron	Wt. Lbs. (App.)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Style
					Dia.	Proj.	
20	W620	2.5	3.333	¾	1½	¾	W
24	W624	3.6	4.000	¾	1½	¾	W
30	W630	5.0	5.000	¾	2¼	¾	W
36	W636	6.0	6.000	1	2½	¾	W
40	W640	7.6	6.667	1	2½	¾	W
48	W648	9.2	8.000	1½	2¾	1	W
60	W660	13.7	10.000	1½	3	1¼	W
72	W672	14.9	12.000	1½	3	1¼	W

W = WEB

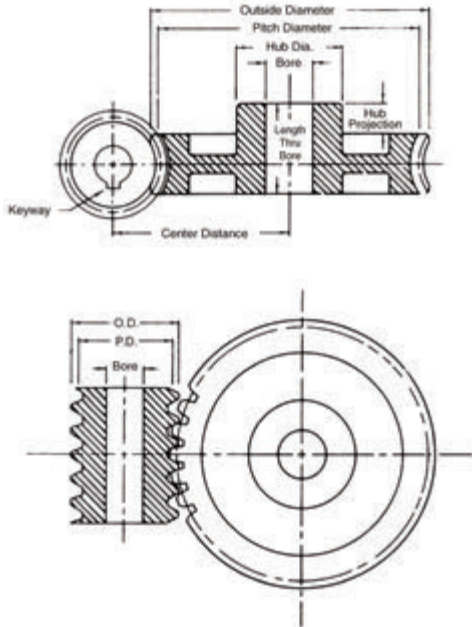


Steel — 4° 46' Helix Angle Worms

Catalog Number Soft	Wt. Lbs. (App.)	Catalog Number Hardened	Wt. Lbs. (App.)	Face (Inches)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Keyway (Inches)
							Dia.	Proj.	
W6	1.8	WG6	1.7	2½	2.000	¾	1½	¾	¾ × ¾
WH6	2.7			2½	2.000	¾			¾ × ¾

Case hardened worms have ground and polished threads (Indicated by letter "G" in catalog number). Please Note: Stock Bore sizes on ground worms may be difficult to modify.

Right Hand Double Thread (Stocked Right Hand Only)



Cast Iron

Number Teeth	Catalog Number Cast Iron	Wt. Lbs. (App.)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Style
					Dia.	Proj.	
20	W620D	3.3	3.333	1	2½	1	PLAIN
24	W624D	4.1	4.000	1¼	2¾	1	PLAIN
30	W630D	5.2	5.000	1¼	2¾	1	W
40	W640D	7.6	6.667	1¼	2¾	1	W

W = WEB



Steel — 9° 28' Helix Angle Worms

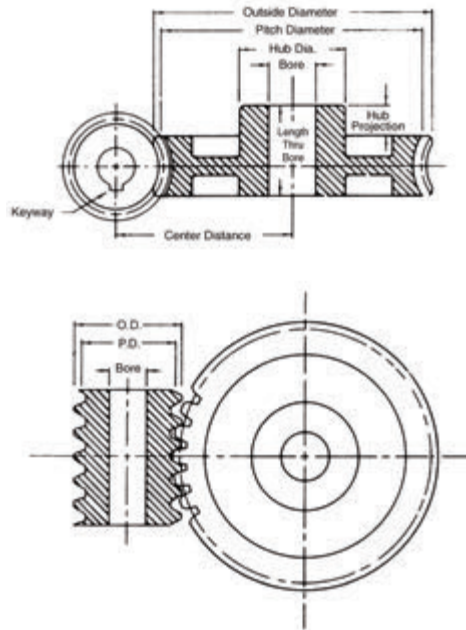
Catalog Number Soft	Weight Pounds (App.)	Face (Inches)	Pitch Diameter	Bore (Inches)	Keyway (Inches)
W6D	1.6	2½	2.000	1	¼ × ¼

Worm and Worm Gears

6 Pitch • 1" Face • 14½° Pressure Angle



Right Hand Quadruple Thread (Stocked Right Hand Only)



Cast Iron

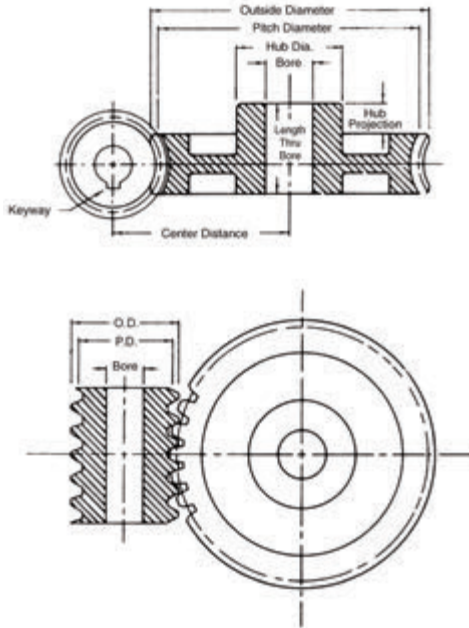
Number Teeth	Catalog Number Cast Iron	Wt. Lbs. (App.)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Style
					Dia.	Proj.	
20	W620Q	3.4	3.333	1	2½	1	PLAIN
24	W624Q	4.1	4.000	1½	2½	1	PLAIN



Steel — 18° 26' Helix Angle Worms

Catalog Number Soft	Wt. Lbs. (App.)	Face (Inches)	Pitch Diameter	Bore (Inches)	Keyway (Inches)
W6Q	1.6	2½	2.000	1	¼ × ¼

Right Hand Single Thread (Stocked Right Hand Only)



Cast Iron

Number Teeth	Catalog Number Cast Iron	Weight Pounds (App.)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Style
					Dia.	Proj.	
20	W820	1.3	2.500	3/8	1 3/8	3/8	PLAIN
30	W830	2.4	3.750	3/8	1 3/8	3/8	W
40	W840	3.7	5.000	1	2 1/2	7/8	W
48	W848	4.5	6.000	1	2 3/8	7/8	W
50	W850	5.1	6.250	1	2 1/2	7/8	W
60	W860	6.1	7.500	1	2 1/2	7/8	W
80	W880	8.9	10.000	1 1/4	3	7/8	W

W = WEB



Steel — 4° 46' Helix Angle Worms

Catalog Number Soft	Weight Pounds (App.)	Catalog Number Hardened	Wt. Lbs. (App.)	Face (Inches)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Keyway (Inches)
							Dia.	Proj.	
W8	0.64	WG8	0.62	1 1/8	1.500	3/8	1 1/8	3/8	3/16 x 3/32
WH8	0.74			1 1/8	1.500	3/8			

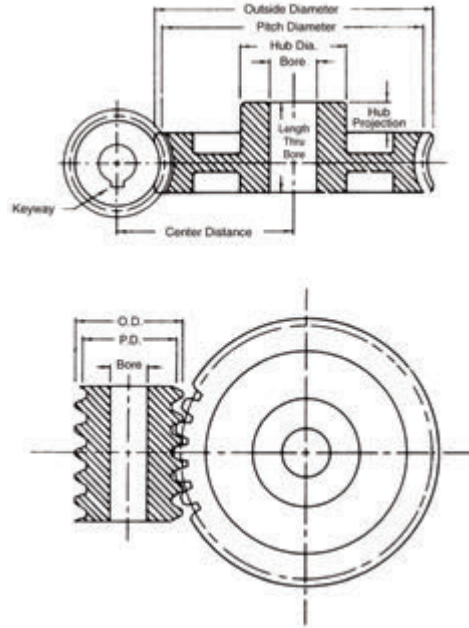
Case hardened worms have ground and polished threads (Indicated by letter "G" in catalog number).
Please Note: Stock Bore sizes on ground worms may be difficult to modify.

Worm and Worm Gears

8 Pitch • 3/4" Face • 14½° Pressure Angle



Right Hand Double Thread (Stocked Right Hand Only)



Cast Iron

Number Teeth	Catalog Number Cast Iron	Weight Pounds (App.)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Style
					Dia.	Proj.	
20	W820D	1.2	2.500	1	2	3/4	PLAIN
30	W830D	2.5	3.750	1	2 1/4	3/4	W
40	W840D	3.4	5.000	1	2 1/4	3/4	W

W = WEB

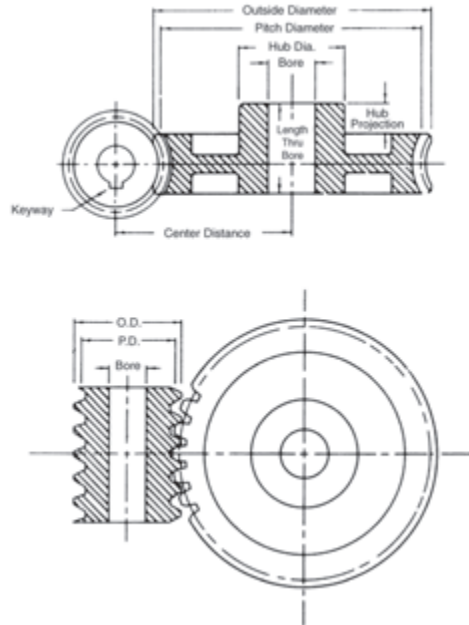


Steel — 9° 28' Helix Angle Worms

Catalog Number Soft	Weight Pounds (App.)	Catalog Number Hardened	Wt. Lbs. (App.)	Face (Inches)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Keyway (Inches)
							Dia.	Proj.	
W8D	0.56	WG8D	0.54	1 1/4	1.500	7/8	1 1/16	3/16	3/32
WH8D	0.74			1 3/4	1.500	1	1 1/16	3/16	3/32

Case hardened worms have ground and polished threads (Indicated by letter "G" in catalog number).
Please Note: Stock Bore sizes on ground worms may be difficult to modify.

Right Hand Quadruple Thread (Stocked Right Hand Only)



Cast Iron

Number Teeth	Catalog Number Cast Iron	Weight Lbs. (Approx.)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Style
					Dia.	Proj.	
20	W820Q	1.2	2.500	1	2	$\frac{3}{4}$	PLAIN
30	W830Q	2.5	3.750	1	$2\frac{1}{2}$	$\frac{3}{4}$	W

W = WEB



Steel — $18^\circ 26'$ Helix Angle Worms

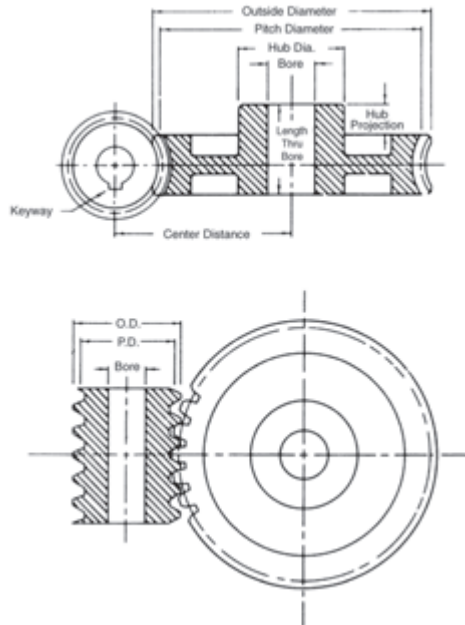
Catalog Number Cast Iron	Weight Lbs. (Approx.)	Face (Inches)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Keyway (Inches)
					Dia.	Proj.	
W8Q	0.58	$1\frac{3}{4}$	1.500	$\frac{3}{8}$	$1\frac{1}{8}$	$\frac{5}{8}$	$\frac{3}{16} \times \frac{7}{32}$
WH8Q	0.76	$1\frac{3}{4}$	1.500	$\frac{3}{4}$	$1\frac{1}{8}$	$\frac{5}{8}$	$\frac{3}{16} \times \frac{7}{32}$

Worm and Worm Gears

10 Pitch • 5/8" Face • 14½° Pressure Angle



Right Hand Single Thread (Stocked Right Hand Only)



Cast Iron and Bronze

Number Teeth	Catalog Number Cast Iron	Weight Lbs. (Approx.)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Style	Catalog Number Bronze	Weight Lbs. (Approx.)
					Dia.	Proj.			
20	W1020	0.7	2.000	½	1¼	¾	PLAIN	WB1020	.8
30	W1030	1.5	3.000	¾	1¾	¾	PLAIN	WB1030	1.7
40	W1040	1.8	4.000	¾	1¾	¾	W	WB1040	2.4
50	W1050	2.8	5.000	¾	2	¾	W		
60	W1060	3.6	6.000	¾	2	¾	W		
80	W1080	4.8	8.000	¾	2	¾	W		
100	W10100	6.0	10.000	¾	2½	¾	W		

W = WEB

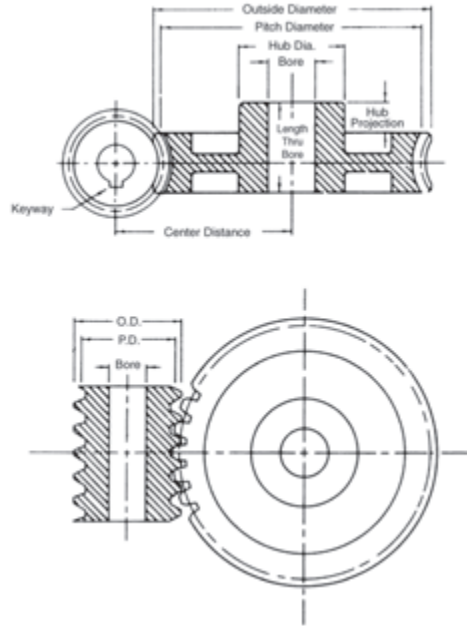


Steel — 4° 34' Helix Angle Worms

Catalog Number Soft	Weight Lbs. (Approx.)	Catalog Number Hardened	Weight Lbs. (Approx.)	Face (Inches)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Keyway (Inches)
							Dia.	Proj.	
W10	0.36	WG10	0.32	1¾	1.250	¾			¾ × ⅜
WH10	0.42		0.38	1¾	1.250	¾	1	½	

Case hardened worms have ground and polished threads (Indicated by letter "G" in catalog number).
Please Note: Stock Bore sizes on ground worms may be difficult to modify.

Right Hand Double Thread (Stocked Right Hand Only)



Cast Iron and Bronze

No. Teeth	Catalog Number Cast Iron	Weight Lbs. (Approx.)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Style	Catalog Number Bronze	Weight Lbs. (Approx.)
					Dia.	Proj.			
20	W1020D	0.65	2.000	3/8	1 1/2	3/4	PLAIN	WB1020D	0.75
30	W1030D	1.30	3.000	3/8	1 1/2	3/4	PLAIN	WB1030D	1.30
40	W1040D	1.60	4.000	3/8	1 1/2	3/4	W		
50	W1050D	2.90	5.000	3/8	2	1	W		
60	W1060D	3.00	6.000	3/8	2	1	W		

W = WEB



Steel — 9° 5' Helix Angle Worms

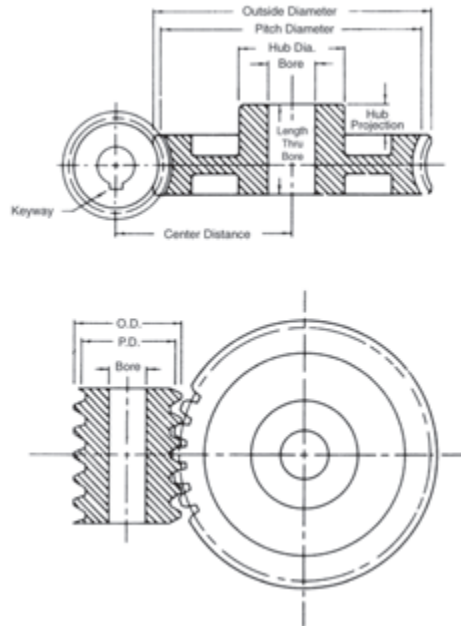
Catalog Number Soft	Weight Lbs. (Approx.)	Face (Inches)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Keyway (Inches)
					Dia.	Proj.	
W10D	0.28	1 1/2	1.2500	3/8	1	1/2	3/16 × 3/32
WH10D	0.42	1 1/2	1.2500	3/8	1	1/2	

Worm and Worm Gears

10 Pitch • $\frac{5}{8}$ " Face • $14\frac{1}{2}^\circ$ Pressure Angle



Right Hand Quadruple Thread (Stocked Right Hand Only)



Cast Iron

Number Teeth	Catalog Number Cast Iron	Weight Lbs. (Approx.)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Style
					Dia.	Proj.	
20	W1020Q	0.64	2.000	$\frac{3}{8}$	1 $\frac{1}{2}$	$\frac{3}{8}$	PLAIN
30	W1030Q	1.30	3.000	$\frac{3}{8}$	1 $\frac{1}{2}$	$\frac{3}{8}$	W
40	W1040Q	1.60	4.000	$\frac{3}{8}$	1 $\frac{1}{2}$	$\frac{3}{8}$	W

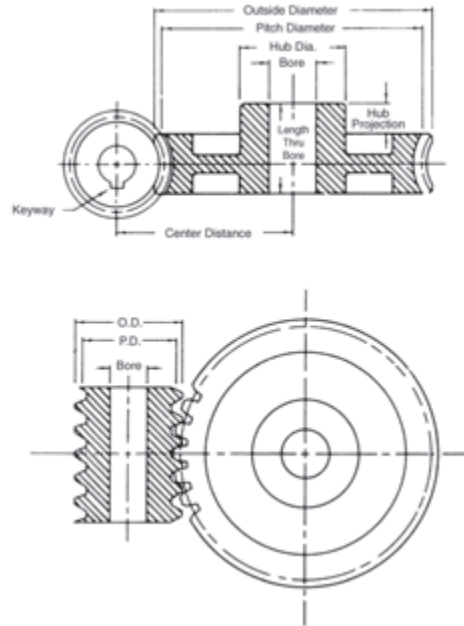
W = WEB



Steel — $17^\circ 45'$ Helix Angle Worms

Catalog Number Soft	Weight Lbs. (Approx.)	Face (Inches)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Keyway (Inches)
					Dia.	Proj.	
W10Q	0.28	1 $\frac{1}{8}$	1.250	$\frac{3}{8}$	1	$\frac{1}{2}$	$\frac{3}{16} \times \frac{3}{32}$
WH10Q	0.40	1 $\frac{1}{8}$	1.250	$\frac{3}{8}$	1	$\frac{1}{2}$	$\frac{3}{16} \times \frac{3}{32}$

Right Hand Single Thread (Stocked Right Hand Only)



Cast Iron and Bronze

Number Teeth	Catalog Number Cast Iron	Weight Lbs. (Approx.)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Style	Catalog Number Bronze	Weight Lbs. (Approx.)
					Dia.	Proj.			
18	W1218	0.28	1.500	½	1¼	¾	PLAIN	WB1220	0.45
20	W1220	0.35	1.667	½	1¼	¾	PLAIN		
30	W1230	0.71	2.500	½	1¼	¾	W		
40	W1240	1.20	3.333	¾	1½	¾	W		
50	W1250	1.50	4.166	¾	1½	¾	W		
60	W1260	2.00	5.000	¾	1¾	¾	W		
80	W1280	3.90	6.666	¾	2½	¾	W		
100	W12100	4.40	8.333	¾	2	¾	W		

W = WEB



Steel — 4° 46' Helix Angle Worms

Catalog Number Soft	Weight Lbs. (Approx.)	Catalog Number Hardened	Weight Lbs. (Approx.)	Face (Inches)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Keyway (Inches)
							Dia.	Proj.	
W12	0.17	WG12	0.14	1¼	1.000	½	¾	¾	¾ × ¼
WH12	0.20			1¼	1.000	½	¾	¾	

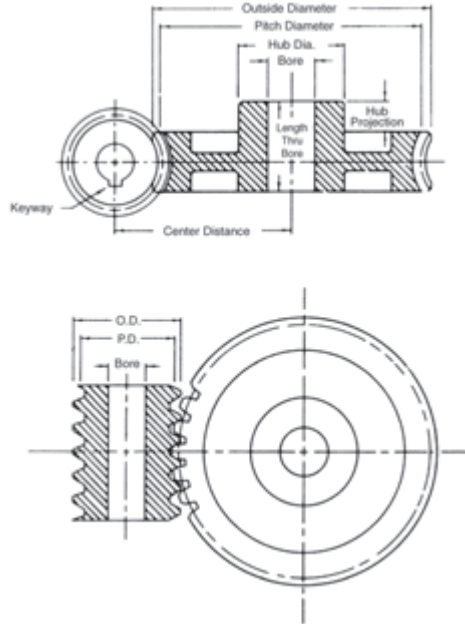
Case hardened worms have ground and polished threads (Indicated by letter "G" in catalog number).
Please Note: Stock Bore sizes on ground worms may be difficult to modify.

Worm and Worm Gears

12 Pitch • 1/2" Face • 14 1/2° Pressure Angle



Right Hand Double Thread (Stocked Right Hand Only)



Cast Iron and Bronze

Number Teeth	Catalog Number Cast Iron	Weight Lbs. (Approx.)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Style	Catalog Number Bronze	Weight Lbs. (Approx.)
					Dia.	Proj.			
20	W1220D	0.32	1.666	1/2	1 1/4	1/2	PLAIN	WB1220D	0.40
30	W1230D	0.78	2.500	3/4	1 1/2	5/8	PLAIN		
40	W1240D	1.30	3.333	1	1 3/4	3/4	W		

W = WEB

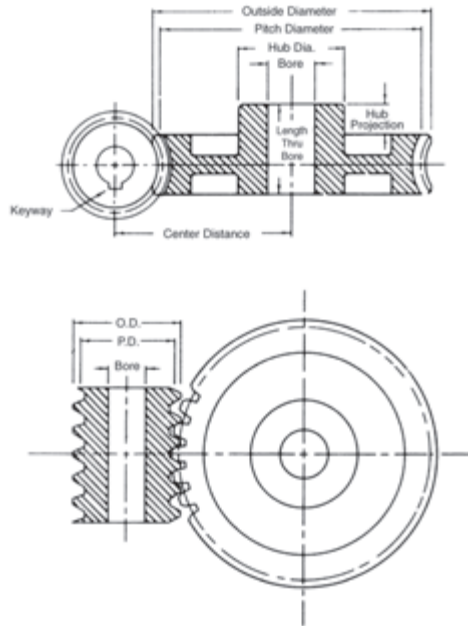


Steel — 9° 28' Helix Angle Worms

Catalog Number Soft	Weight Lbs. (Approx.)	Catalog Number Hardened	Weight Lbs. (Approx.)	Face (Inches)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Keyway (Inches)
							Dia.	Proj.	
W12D	0.14	WG12D	0.14	1 1/2	1.000	3/8	1 1/4	1/2	1/8 x 1/16
WH12D	0.20			1 1/2	1.000	3/8	1 1/4	1/2	1/8 x 1/16

Case hardened worms have ground and polished threads (Indicated by letter "G" in catalog number).
Please Note: Stock Bore sizes on ground worms may be difficult to modify.

Right Hand Quadruple Thread (Stocked Right Hand Only)



Cast Iron

Number Teeth	Catalog Number Cast Iron	Weight Lbs. (Approx.)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Style
					Dia.	Proj.	
20	W1220Q	0.32	1.666	1/2	1 1/4	1/2	PLAIN
30	W1230Q	0.38	2.500	3/4	1 1/2	5/8	PLAIN
40	W1240Q	0.80	3.333	3/4	1 1/2	5/8	W

W = WEB



Steel — 18° 26' Helix Angle Worms

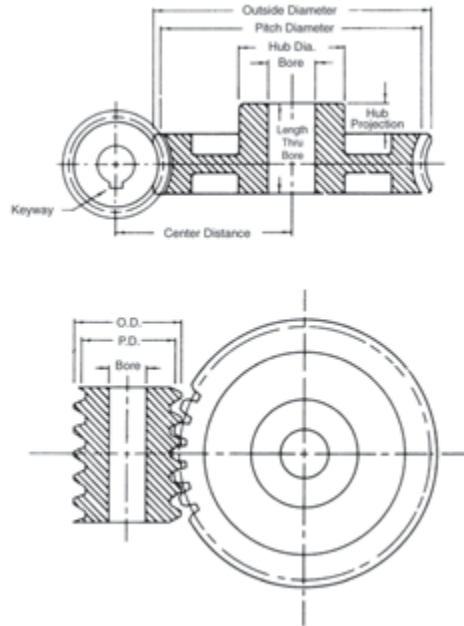
Catalog Number Soft	Weight Lbs (Approx.)	Catalog Number Hardened	Weight Lbs (Approx.)	Face (Inches)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Keyway (Inches)
							Dia.	Proj.	
W12Q	0.14	WG12Q	0.14	1 1/8	1.000	5/8	3/4	5/8	1/8 × 1/16
WH12Q	0.20			1 1/8	1.000	1/2	3/4	5/8	

Worm and Worm Gears

16 Pitch • $\frac{5}{16}$ " Face • $14\frac{1}{2}^\circ$ Pressure Angle



Right Hand Single Thread (Stocked Right Hand Only)



Bronze

Number Teeth	Catalog Number	Weight Lbs. (Approx.)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Style
					Dia.	Proj.	
20	WB1620	0.13	1.250	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{3}{8}$	PLAIN
30	WB1630	0.28	1.875	$\frac{5}{16}$	$\frac{3}{4}$	$\frac{3}{8}$	W
40	WB1640	0.42	2.500	$\frac{5}{16}$	$\frac{3}{4}$	$\frac{3}{8}$	W
50	WB1650	0.50	3.125	$\frac{3}{8}$	$\frac{3}{4}$	$\frac{3}{8}$	W

W = WEB

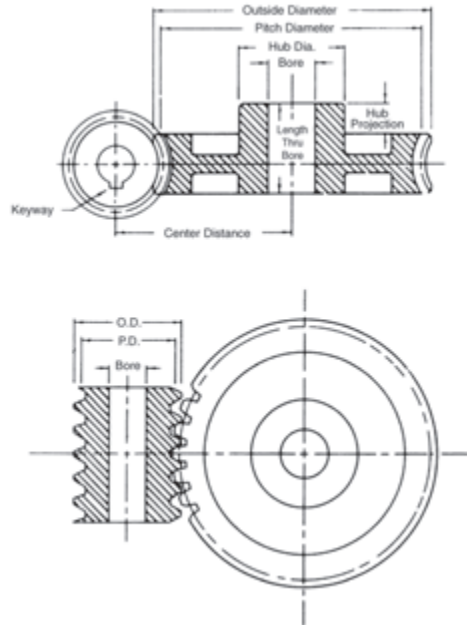


Steel — $5^\circ 43'$ Helix Angle Worms

Catalog Number Soft	Weight Lbs. (Approx.)	Catalog Number Hardened	Weight Lbs. (Approx.)	Face (Inches)	Pitch Dia.	Bore (Inches)	Hub (Inches)	
							Dia.	Proj.
WH16	0.08	WHG16	0.07	1	0.625	$\frac{1}{4}$	0.46	$\frac{1}{4}$
				1	0.625	$\frac{5}{16}$	0.46	$\frac{1}{4}$

Case hardened worms have ground and polished threads (Indicated by letter "G" in catalog number).
Please Note: Stock Bore sizes on ground worms may be difficult to modify.

Right Hand Double Thread (Stocked Right Hand Only)



Bronze

Number Teeth	Catalog Number	Weight Lbs. (Approx.)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Style
					Dia.	Proj.	
20	WB1620D	0.14	1.250	$\frac{1}{4}$	$\frac{5}{8}$	$\frac{3}{16}$	PLAIN



Steel — $11^\circ 19'$ Helix Angle Worms

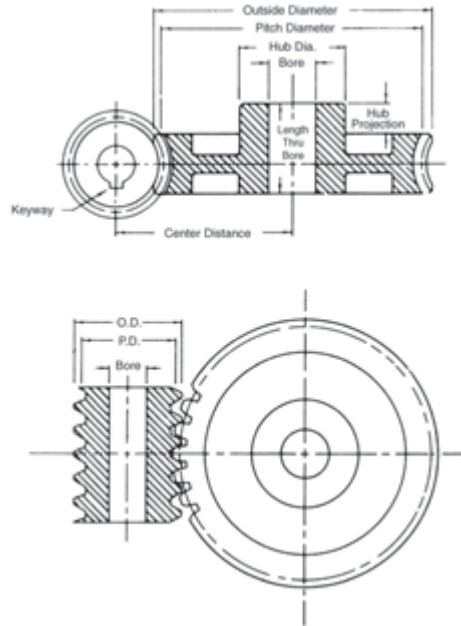
Catalog Number Soft	Weight Lbs. (Approx.)	Face (Inches)	Pitch Dia.	Bore (Inches)	Hub (Inches)	
					Dia.	Proj.
WH16D	0.09	1	0.625	$\frac{1}{4}$	0.46	$\frac{1}{4}$

Worm and Worm Gears

16 Pitch • $\frac{5}{16}$ " Face • $14\frac{1}{2}^\circ$ Pressure Angle



Right Hand Quadruple Thread (Stocked Right Hand Only)



Bronze

Number Teeth	Catalog Number	Weight Lbs (Approx.)	Pitch Dia.	Bore (Inches)	Hub (Inches)		Style
					Dia.	Proj.	
20	WB1620Q	0.14	1.250	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{5}{16}$	PLAIN



Steel — $21^\circ 48'$ Helix Angle Worms

Catalog Number Soft	Weight Lbs. (Approx.)	Face (Inches)	Pitch Dia.	Bore (Inches)	Hub (Inches)	
					Dia.	Proj.
WH16Q	0.08	1	0.625	$\frac{1}{4}$	0.46	$\frac{1}{4}$



Worm Gears

Ratio-Center Distance Listings With Approximate Horsepower and Torque† Ratings for Hardened and Ground Worms With Bronze Worm Gears

RPM of Worm			1800		900		300		100	
Center		*Gear	Input-Output		Input-Output		Input-Output		Input-Output	
Ratio	Distance		HP	Torque	HP	Torque	HP	Torque	HP	Torque
5.00	0.938	WB1620Q	0.37	60	0.25	70	0.09	80	0.03	80
5.00	1.333	WB1220Q	0.80	130	0.55	170	0.25	200	0.08	215
5.00	1.625	WB1020Q	1.25	200	0.90	275	0.40	350	0.15	370
5.00	2.000	WB820Q	2.00	315	1.50	460	0.80	890	0.33	965
5.00	2.667	WB620Q	3.70	600	2.75	880	1.40	1280	0.55	1430
6.00	3.000	WB624Q	4.50	880	3.40	1300	1.75	1900	0.70	2180
7.50	1.250	WB1630Q	0.50	130	0.33	160	0.14	180	0.05	185
7.50	1.750	WB1230Q	1.25	300	0.85	390	0.33	460	0.13	490
7.50	2.125	WB1030Q	1.90	450	1.33	560	0.60	790	0.25	850
7.50	2.625	WB830Q	3.00	725	2.25	1060	1.00	1400	0.40	1520
7.50	3.500	WB630Q	5.75	1400	4.33	2060	2.20	2960	0.87	3330
9.67	4.050	WB529T	8.40	2615	6.25	3785	3.33	5730	1.33	6540
10.00	0.938	WB1620D	0.25	70	0.15	85	0.06	90	0.02	95
10.00	1.333	WB1220D	0.50	155	0.33	205	0.16	240	0.06	250
10.00	1.562	WB1640Q	0.75	240	0.50	285	0.18	320	0.06	330
10.00	1.625	WB1020D	0.80	230	0.60	325	0.25	400	0.10	430
10.00	2.000	WB820D	1.25	365	0.90	525	0.45	690	0.15	750
10.00	2.167	WB1240Q	1.67	530	1.10	700	0.50	830	0.17	880
10.00	2.625	WB1040Q	2.50	805	1.75	1120	0.80	1400	0.30	1500
10.00	2.667	WB620D	2.40	735	1.80	1075	0.95	1540	0.37	1700
10.00	3.250	WB840Q	4.00	1300	3.00	1880	1.40	2500	0.50	2700
10.00	4.333	WB640Q	7.75	2500	5.75	3675	3.00	5333	1.15	5980
12.00	3.000	WB624D	2.85	1050	2.20	1550	1.15	2200	0.45	2450
12.5	1.875	WB1650Q	0.95	375	0.60	445	0.25	500	0.08	515
12.5	2.583	WB1250Q	2.00	820	1.40	1080	0.60	1300	0.20	1370
12.5	3.125	WB1050Q	3.00	1250	2.25	1740	1.00	2200	0.33	2340
12.5	3.875	WB850Q	4.90	2000	3.70	2900	1.70	3840	0.65	4170
12.5	5.167	WB650Q	9.50	3800	7.00	5600	3.60	8200	1.40	9200
13.33	5.150	WB540T	11.00	4720	8.20	6830	4.40	10360	1.75	11800
15.00	1.250	WB1630D	0.33	155	0.25	180	0.08	200	0.03	210
15.00	1.750	WB1230D	0.75	350	0.50	450	0.25	535	0.07	560
15.00	2.125	WB1030D	1.20	520	0.87	725	0.37	900	0.15	965
15.00	2.188	WB1660Q	1.10	570	0.70	680	0.25	760	0.10	790
15.00	2.625	WB830D	1.67	750	1.25	1080	0.60	1415	0.25	1530
15.00	3.000	WB1260Q	2.50	1170	1.67	1540	0.70	1800	0.25	1930
15.00	3.500	WB630D	3.50	1620	2.70	2375	1.40	3370	0.55	3770
15.00	3.625	WB1060Q	3.75	1700	2.67	2500	1.17	3100	0.50	3300
15.00	4.500	WB860Q	5.75	2820	4.33	4100	2.00	5470	0.75	6000
15.00	6.000	WB660Q	11.33	5550	8.50	8000	4.33	11700	1.70	13100
16.67	6.150	WB550T	13.50	7250	10.00	10500	5.40	16000	2.20	18000
18.00	5.000	WB318	6.00	3100	4.67	4570	3.00	8000	1.50	10000
18.00	7.000	WB672Q	13.50	7800	10.00	11400	5.00	16500	2.00	18500
20.00	0.938	WB1620	0.15	75	0.10	90	0.04	100	0.02	105
20.00	1.333	WB1220	0.33	170	0.25	220	0.10	260	0.04	275
20.00	1.562	WB1640D	0.50	270	0.30	310	0.10	350	0.04	350
20.00	1.625	WB1020	0.50	250	0.33	350	0.20	440	0.07	470

* Ratings listed are for bronze worm gears operating with hardened and ground steel worms. For ratings of cast iron worm gears with hardened steel worm, multiply listed ratings by 30%.

For cast iron with hardened and ground steel worm, multiply by 50%.

† Torque ratings in inch pounds.

Worm Gears



Ratio-Center Distance Listings With Approximate Horsepower and Torque† Ratings for Hardened and Ground Worms With Bronze Worm Gears

RPM of Worm		*Gear	1800		900		300		100	
Center			Input-Output		Input-Output		Input-Output		Input-Output	
Ratio	Distance		HP	Torque	HP	Torque	HP	Torque	HP	Torque
20	2.000	WB820	0.75	400	0.60	600	0.33	775	0.12	850
20	2.167	WB1240D	1.00	600	0.67	775	0.33	920	0.10	970
20	2.625	WB1040D	1.50	900	0.85	1230	0.50	1500	0.20	1650
20	2.667	WB620	1.50	800	1.15	1170	0.75	1660	0.25	1850
20	2.812	WB1680Q	1.40	900	0.90	1075	0.33	1200	0.12	1240
20	3.250	WB840D	2.30	1400	1.75	2000	0.80	2580	0.33	2800
20	3.833	WB1280Q	3.12	2000	2.12	2600	0.90	3120	0.33	3300
20	4.000	WB420	3.50	2000	2.75	2880	1.75	4700	0.75	5600
20	4.333	WB640D	4.50	2780	3.40	4050	1.75	5800	0.70	6500
20	4.625	WB1080Q	4.75	3000	3.40	4250	1.50	5340	0.50	5700
20	5.750	WB880Q	7.50	4800	5.60	7000	2.60	9400	1.00	10200
20	7.667	WB680Q	15.00	9500	10.75	13800	5.50	20000	2.20	22500
24	3.000	WB624	1.75	1120	1.33	1630	0.75	2300	0.33	2600
24	4.500	WB424	4.00	2800	3.00	4000	2.00	6600	0.90	7800
24	6.000	WB324	7.50	5300	5.90	7750	3.90	13500	1.90	17000
25	1.875	WB1650D	0.50	370	0.33	470	0.12	520	0.05	540
25	2.583	WB1250D	1.20	890	0.80	1150	0.33	1380	0.12	1450
25	3.125	WB1050D	1.80	1340	1.33	1850	0.60	2300	0.25	2500
25	3.438	WB16100Q	1.75	1300	1.00	1575	0.40	1750	0.12	1800
25	3.875	WB850D	3.00	2200	2.25	3250	1.00	4200	0.40	4500
25	4.667	WB12100Q	3.67	2800	2.50	3660	1.00	4400	0.40	4630
25	5.167	WB650D	5.50	4000	4.00	6000	2.15	8700	0.87	9700
25	5.625	WB10100Q	5.70	4500	4.10	6380	1.75	8000	0.67	8500
25	7.000	WB8100Q	10.00	9700	7.00	11500	4.00	17500	1.25	19000
25	9.333	WB6100Q	17.50	14250	13.00	20750	6.66	30000	2.60	33000
29	4.050	WB529	3.50	2800	2.75	4200	1.50	6300	0.67	7000
30	1.250	WB1630	0.20	160	0.12	190	0.06	210	0.02	215
30	1.750	WB1230	0.50	350	0.33	450	0.15	540	0.06	570
30	2.125	WB1030	0.70	530	0.50	750	0.25	925	0.10	1000
30	2.188	WB1660	0.60	590	0.40	700	0.15	760	0.05	800
30	2.625	WB830	1.00	870	0.85	1260	0.40	1600	0.17	1750
30	3.000	WB1260D	1.33	1230	1.00	1600	0.40	1900	0.15	2000
30	3.500	WB630	2.00	1700	1.60	2430	0.87	3500	0.33	3800
30	3.625	WB1060D	2.00	1850	1.50	2500	0.70	3200	0.25	3430
30	4.500	WB860D	3.25	2900	2.50	4300	1.12	5650	0.50	6000
30	6.000	WB660D	6.30	5800	4.80	6075	2.50	12110	1.00	13510
30	7.000	WB330	9.05	7880	7.00	11570	4.60	20280	2.25	25560
32	5.500	WB432	5.15	4680	4.00	6750	2.50	11140	1.10	13200
36	4.000	WB636	2.33	2310	1.80	3380	1.00	4800	0.42	5360
36	7.000	WB672D	7.25	8010	5.50	11670	2.87	16700	1.15	18650
36	8.000	WB336	10.40	10900	8.10	15960	5.35	27950	2.60	35280
40	1.562	WB1640	0.25	266	0.12	330	0.07	350	0.02	360
40	2.167	WB1240	0.55	580	0.30	825	0.18	900	0.07	940
40	2.625	WB1040	0.87	890	0.65	1220	0.30	1520	0.12	1630
40	2.812	WB1680D	0.75	910	0.33	1140	0.20	1200	0.07	1230

* Ratings listed are for bronze worm gears operating with hardened and ground steel worms. For ratings of cast iron worm gears with hardened steel worm, multiply listed ratings by 30%. For cast iron with hardened and ground steel worm, multiply by 50%.

† Torque ratings in inch pounds.



Worm Gears

Ratio-Center Distance Listings With Approximate Horsepower and Torque† Ratings for Hardened and Ground Worms With Bronze Worm Gears

RPM of Worm		*Gear	1800		900		300		100	
Center			Input-Output		Input-Output		Input-Output		Input-Output	
Ratio	Distance		HP	Torque	HP	Torque	HP	Torque	HP	Torque
40	3.250	WB840	1.35	1440	0.85	2350	0.50	2700	0.20	2900
40	3.833	WB1280D	1.70	2040	1.15	2675	0.50	3160	0.20	3330
40	4.333	WB640	2.50	2770	2.00	4033	1.00	5760	0.45	6420
40	4.625	WB1080D	2.60	3070	1.90	4270	0.85	5315	0.33	5680
40	5.150	WB540	4.33	4930	3.40	7145	2.00	10725	0.83	12170
40	5.750	WB880D	4.00	4740	3.00	6850	1.40	8940	0.55	9680
40	6.500	WB440	6.00	5520	4.65	7950	3.00	13200	1.33	15480
40	7.667	WB680D	7.83	9600	6.00	14000	3.00	20025	1.25	22340
48	3.750	WB848	1.50	1950	1.20	2820	0.60	3650	0.25	3960
48	5.000	WB648	2.80	3730	2.25	5460	1.25	7750	0.50	8640
48	7.500	WB448	6.80	9320	5.25	13400	3.33	22200	1.50	26160
48	10.000	WB348	12.70	17640	9.87	25920	6.50	45360	3.16	57120
50	1.875	WB1650	0.30	380	0.20	450	0.08	490	0.03	515
50	2.583	WB1250	0.66	840	0.50	1090	0.20	1300	0.08	1360
50	3.125	WB1050	1.00	1280	0.75	1770	0.33	2200	0.14	2340
50	3.438	WB16100D	0.90	1290	0.50	1525	0.25	1690	0.08	1730
50	3.875	WB850	1.60	2140	1.25	3130	0.66	4090	0.25	4430
50	4.667	WB12100D	2.00	2875	1.33	3600	0.50	4460	0.22	4700
50	5.167	WB650	2.90	4000	2.25	5825	1.25	8310	0.50	9260
50	5.625	WB10100D	3.00	4440	2.16	6110	1.00	7675	0.33	8000
50	6.150	WB550	5.12	7120	4.00	10320	2.25	15480	1.00	17570
50	7.000	WB8100D	4.10	5000	2.75	7500	1.50	8000	0.60	10000
50	9.333	WB6100D	9.00	13800	6.75	20200	3.50	28930	1.40	32280
54	11.000	WB354	13.50	21230	10.50	31200	7.00	54480	3.33	68760
59	7.050	WB559	5.50	9230	4.50	13900	2.50	20075	1.00	23160
60	2.188	WB1660	0.33	550	0.20	650	0.08	720	0.03	740
60	3.000	WB1260	0.75	1100	0.50	1440	0.25	1700	0.09	1790
60	3.625	WB1060	1.00	1690	0.80	2330	0.33	2890	0.16	3080
60	4.500	WB860	1.66	2660	1.33	3900	0.66	5090	0.25	5500
60	6.000	WB660	3.20	5240	2.50	7670	1.40	1080	0.60	1225
64	9.500	WB464	7.87	14280	6.00	20640	3.80	34080	1.70	40320
72	7.000	WB672	3.33	6610	2.50	9660	1.50	13700	0.60	15360
80	2.812	WB1680	0.33	705	0.22	830	0.09	920	0.04	950
80	3.833	WB1280	0.75	1550	0.50	2030	0.25	2375	0.10	2520
80	4.625	WB1080	1.15	2375	0.87	3275	0.40	4050	0.16	4330
80	5.750	WB880	1.80	3800	1.40	5500	0.70	7140	0.30	7750
80	7.667	WB680	3.33	7380	2.66	10750	1.50	15350	0.60	17110
96	6.750	WB896	1.50	4200	1.00	6000	0.50	7000	0.20	8500
96	9.000	WB696	3.25	8490	2.50	12370	1.33	17660	0.50	19680
100	3.438	WB16100	0.33	810	0.20	960	0.09	1060	0.33	1100
100	4.667	WB12100	0.75	1790	0.50	2330	0.25	2730	0.90	2800
100	5.625	WB10100	1.00	2780	0.80	3850	0.33	4775	0.16	5100
100	7.000	WB8100	1.67	4450	1.25	6300	0.67	8000	0.24	9000
100	9.333	WB6100	3.20	8700	2.50	12675	1.33	18090	0.55	20160

* Ratings listed are for bronze worm gears operating with hardened and ground steel worms. For ratings of cast iron worm gears with hardened steel worm, multiply listed ratings by 30%. For cast iron with hardened and ground steel worm, multiply by 50%.

† Torque ratings in inch pounds.

Gear Standards



Quality is the most important factor in buying a gear. We have established Standards and Tolerances to insure our customers of accurate, dependable and long-lasting gears. All gears are checked with precision pins to assure correct backlash and center distances.

BACKLASH: All stock gears are checked between centers for backlash. The recommended backlash for mating gears when assembled is:

3 DP .....	.009 — .014	10 DP .....	.003 — .005
4 DP .....	.007 — .011	12 DP .....	.003 — .005
5 DP .....	.006 — .009	16 DP .....	.002 — .004
6 DP .....	.005 — .008	20 DP .....	.002 — .004
8 DP .....	.004 — .006	24 DP .....	.002 — .004

CONCENTRICITY of pitch line with bore (Total Indicator Reading) is held within:

3 DP .....	.006	10 DP .....	.0040
4 DP .....	.006	12 DP .....	.0040
5 DP .....	.005	16 DP .....	.0025
6 DP .....	.005	20 DP .....	.0025
8 DP .....	.005	24 DP .....	.0025

Stock bores are reamed, honed or ground to a smooth finish and standard commercial tolerances or closer. For rust prevention on distributor's shelf and for better appearance when received by the user, all stock gears go through a special finishing process. They present a pleasing appearance when on display or on the shelf. They are not boxed. All gears are identified by part numbers.

**Gear
Engineering
Data**

**Spur Gear
Gear Formulas
Drive Selection
Horsepower and Torque
Tables**

Stock Spur Gear Drive Selection

When designing a stock gear drive using the horsepower tables in this catalog, the following steps must be taken:

I. Find out these five necessary things:

- a. Exact center distance in inches
- b. Ratio and speeds
- c. Service factor (from page G-84)
- d. Actual horsepower
- e. Bore sizes of both gears

II. Determine Design Horsepower using formula:

$$\text{DHP} = \text{HP} \times \text{SF}$$

Where: DHP = Design Horsepower

HP = Actual Horsepower

SF = Service Factor (from page G-84)

III. Determine Pitch Diameters using the formulas:

$$\text{PD}_1 = \frac{\text{CD} \times 2}{\text{Ratio} + 1}$$

$$\text{PD}_2 = \text{PD}_1 \times \text{Ratio}$$

Where: PD₁ = Pitch Diameter of Pinion (small gear)

PD₂ = Pitch Diameter of Gear (large gear)

CD = Center Distance

IV. Check the Center Distance:

$$\text{CD} = \frac{\text{PD}_1 + \text{PD}_2}{2}$$

V. Select Pitch from Horsepower tables on pages G-25 — G-27.

VI. Check Selected pitch for necessary Pitch Diameters.

VII. Check Horsepower capacity of Large Gear.

VIII. Check maximum bore capacity of selected Gears.

Spur Gear Drive Selection II (Other Than Stock)

When designing a gear drive when horsepower and speeds exceed the stock gear tables on pages G-25 – G-27, the following steps must be taken:

I. We must obtain all of the following data:

- Exact center distance in inches
- Ratio and speeds
- Service factor (from page G-84)
- Actual horsepower
- Bore sizes of both gears

II. Determine Design Horsepower using formula:

$$DHP = HP \times SF$$

Where: DHP = Design Horsepower

HP = Actual Horsepower

SF = Service Factor (from page G-84)

III. Determine Pitch Diameters using the formulas:

$$PD_1 = \frac{CD \times 2}{Ratio + 1}$$

$$PD_2 = PD_1 \times Ratio$$

Where: PD₁ = Pitch Diameter of Pinion (small gear)

PD₂ = Pitch Diameter of Gear (large gear)

CD = Center Distance

IV. Determine velocity using the formula:

$$V = .262 \times PD \times RPM$$

Where: V = Velocity in feet per minute @ pitch line

PD = Pitch Diameter

RPM = Revolutions per minute of either gear*

V. Determine approximate pitch using the formula:

$$DP = \sqrt{\frac{3.1416 \times S \times 3 \times V \times .25}{DHP \times 27.5 (1200 + V)}}$$

Where: DP = Diametral Pitch

S = Safe Static Stress per Square Inch of material
(see table one, page G-84)

V = Velocity in FPM

DHP = Design Horsepower

Note: To round off answers, go to the nearest DP
(standard DP's larger than 3 DP are: 1 DP, 1¼ DP, 1½ DP, 1¾ DP, 2 DP, 2½ DP)

VI. Determine number of teeth on both gears:

$$N = PD \times DP$$

Where: N = Number of teeth

PD = Pitch Diameter of gear

DP = Diametral Pitch of gear

NOTE: Velocities of both gears will always be the same. When using the above formula make sure to use the proper speed (RPM) with the proper pitch diameter.

Spur Gear Drive Selection II (Other Than Stock)

VII. Determine Face Width:

$$F = DP \left(\frac{DHP \times 33,000}{V} \right) \frac{1}{SY \left(\frac{600}{600 + V} \right)}$$

Where: F = Face Width

DP = Diametral Pitch

V = Velocity in FPM

S = Safe Static Stress per Square Inch of material
(Table 1, page G-84)

Y = Outline formula from Table 2, page G-84

Note: To round off each answer, go to the next one inch.

VIII. Check HP rating of selected pinion using the formula:

$$HP = \frac{LV}{33,000}$$

Where: $L = \frac{SYF}{DP} \times \frac{600}{600 + V}$

From horsepower formulas on page G-83.

Note: If the horsepower capacity is below the design horsepower, the following options can be taken:

- A. Harden pinion (check gear HP capacity first)
- B. Increase face
- C. Increase pitch

Center Distance, Pitch Diameters and Ratios of Spur Gears

To determine the pitch diameters of a gear set, we must find two basic things:

1. Required ratio
2. Required center distance

Knowing this, first figure out the pitch diameter of the pinion (smaller gear) using the formula:

$$PD_1 = \frac{CD \times 2}{Ratio + 1}$$

Where: PD₁ = Pitch Diameter of the Pinion

CD = Center Distance

Then, find the pitch diameter of the larger gear, PD₂, by using the formula:

$$PD_2 = PD_1 \times Ratio$$

Then check the center distance by using the formula:

$$CD = \frac{PD_1 + PD_2}{2}$$

Horsepower Formulas

See page G-84 for tables one, two and three

Engineering Data

Lewis Formula (with Barth Revision)

L = Load in pounds at pitch line

S = Safe static stress per square inch of material
(see table one)

DP = Diametral Pitch

F = Face width of gear

Y = Strength factor based on Pressure Angle and Number of
Teeth (See table two)

V = Velocity in feet per minute

$$V = .262 \times PD \times RPM$$

PD = Pitch Diameter

RPM = Revolutions Per Minute

HP = Horsepower

$$L = \frac{SFY}{DP} \times \frac{600}{600 + V}$$

Maximum allowable torque (T) that should be imposed on a gear will be the safe tooth load (L) multiplied by

$$\frac{DP \text{ or } T}{2} = \frac{L \times PD}{2}$$

The safe Horsepower capacity of the gear (at a given RPM) can be calculated from $HP = \frac{T \times RPM}{63,025}$ or directly from (L) and (V):

$$*HP = \frac{LV}{33,000}$$

$$\text{For a known HP, } T = \frac{63025 \times HP}{RPM}$$

For NON-METALLIC GEARS, the modified Lewis Formula shown below may be used with (S) values of 6000 PSI for Phenolic Laminated material.

$$L = \frac{SFY}{DP} \left(\frac{150}{200 + V} + .25 \right)$$

* Apply SERVICE FACTOR (table three) for required horsepower.

Gear Standards



Table One

(S) Average values in pounds per square inch

Material	S
Steel — .40 Carbon	25000
— .20 Carbon	20000
Steel — .40 Carbon Heat Treated	35000
Cast Iron	12000
Bronze	10000
Non-Metallic	6000

Table Two

Outline factor Y for use with Diametral Pitch

Number of Teeth	14½ P.A. Involute	20 P.A. Involute	Number of Teeth	14½ P.A. Involute	20 P.A. Involute
10	.176	.201	26	.308	.344
11	.192	.226	28	.314	.352
12	.210	.245	30	.318	.358
13	.223	.264	35	.327	.373
14	.235	.276	40	.336	.389
15	.245	.289	45	.340	.399
16	.255	.295	50	.346	.408
17	.264	.302	60	.355	.421
18	.270	.308	70	.360	.429
19	.277	.314	80	.363	.436
20	.283	.320	90	.366	.442
21	.289	.326	100	.368	.446
22	.292	.330	150	.375	.458
23	.296	.333	200	.378	.463
24	.302	.337	RACK	.390	.484
25	.305	.340			

Table Three

Service factors

Multiply required horsepower by service factor recommended for type of service

Type of Load	Intermittent or 3 Hours per Day	8-10 Hours per Day	Continuous 24 Hours per Day
UNIFORM	0.80	1.00	1.25
LIGHT SHOCK	1.00	1.25	1.50
MEDIUM SHOCK	1.25	1.50	1.80
HEAVY SHOCK	1.50	1.80	2.00

Rules and Formulas For Spur Gear Calculations

Diametral Pitch
Diametral Pitch is the Number of Teeth to Each Inch of the Pitch Diameter.

To Find	Having	Rule	Formula
The Diametrical Pitch	The Circular Pitch	Divide 3.1416 by the Circular Pitch	$DP = \frac{3.1416}{CP}$
The Diametrical Pitch	The Pitch Diameter and the Number of Teeth	Divide the Number of Teeth by Pitch Diameter	$DP = \frac{N}{PD}$
The Diametrical Pitch	The Outside Diameter and Number of Teeth	Divide the Number of Teeth plus 2 by Outside Diameter	$DP = \frac{N+2}{D}$
Pitch Diameter	The Number of Teeth and the Diametral Pitch	Divide Number of Teeth by the Diametral Pitch	$PD = \frac{N}{DP}$
Pitch Diameter	The Number of Teeth and Outside Diameter	Divide the product of Outside Diameter and Number of Teeth by Number of Teeth plus 2	$PD = \frac{OD \times N}{N+2}$
Pitch Diameter	The Outside Diameter and the Diametral Pitch	Subtract from the Outside Diameter the Quotient of 2 Divided by the Diametral Pitch	$PD = OD - (2 \div DP)$
Pitch Diameter	Addendum and the Number of Teeth	Multiply Addendum by the Number of Teeth	$PD = s \times N$
Outside Diameter	The Number of Teeth and the Diametral Pitch	Divide number of Teeth plus 2 by the Diametral Pitch	$OD = \frac{N+2}{DP}$
Outside Diameter	The Pitch Diameter and the Diametral Pitch	Add to the Pitch Diameter the quotient of 2 divided by the Diametral Pitch	$D = PD + \frac{2}{P}$
Outside Diameter	The Pitch Diameter and the Number of Teeth	Divide the Number of Teeth plus 2 by the quotient of Number of Teeth divided by Pitch Diameter	$D = \frac{N+2}{N \div PD}$
Outside Diameter	The Number of Teeth and Addendum	Multiply the Number of Teeth plus 2 by Addendum	$D = (N+2)A$
Number of Teeth	The Pitch Diameter and the Diametral Pitch	Multiply the Pitch Diameter by the Diametral Pitch	$N = PD \times DP$
Number of Teeth	The Outside Diameter and the Diametral Pitch	Multiply Outside Diameter by the Diametral Pitch and subtract 2	$N = DP - 2$
Thickness of Tooth	The Diametral Pitch	Divide 1.5708 by the Diametral Pitch	$t = \frac{1.5708}{DP}$
Addendum	The Diametral Pitch	Divide 1 by the Diametral Pitch	$A = \frac{1}{DP}$
Dedendum	The Diametral Pitch	Divide 1.157 by the Diametral Pitch	$A+L = \frac{1.157}{DP}$
Working Depth	The Diametral Pitch	Divide 2 by the Diametral Pitch	$WD = \frac{2}{DP}$
Whole Depth	The Diametral Pitch	Divide 2.157 by the Diametral Pitch	$WD = \frac{2.157}{DP}$
Clearance	The Diametral Pitch	Divide .157 by the Diametral Pitch	$L = \frac{.157}{DP}$
Clearance	Thickness of Tooth	Divide Thickness of Tooth at Pitch Line by 10	$L = \frac{t}{10}$

NOTE: Rules and Formulas Relating to Tooth Depth and Outside Diameter Apply to Full-Depth, Equal Addendum Gears.

Diametral Pitch Tooth Dimensions



Dimensions of Standard Full-depth Teeth

Diametral Pitches and Equivalent Circular Pitches

Diametral Pitch	Circular Pitch	Module	Arc Thickness of Tooth on Pitch Line	Addendum	Working Depth of Tooth	Dedendum or Depth of Space Below Pitch Line	Whole Depth of Tooth*
½	6.2832	50.8	3.1416	2.0000	4.0000	2.3142	4.3142
¾	4.1888	33.8667	2.0944	1.3333	2.6666	1.5428	2.8761
1	3.1416	25.4	1.5708	1.0000	2.0000	1.1571	2.1571
1¼	2.5133	20.32	1.2566	0.8000	1.6000	0.9257	1.7257
1½	2.0944	16.9333	1.0472	0.6666	1.3333	0.7714	1.4381
1¾	1.7952	14.5143	0.8976	0.5714	1.1429	0.6612	1.2326
2	1.5708	12.7	0.7854	0.5000	1.0000	0.5785	1.0785
2¼	1.3963	11.2889	0.6981	0.4444	0.8888	0.5143	0.9587
2½	1.2566	10.16	0.6283	0.4000	0.8000	0.4628	0.8628
2¾	1.1424	9.2364	0.5712	0.3636	0.7273	0.4208	0.7844
3	1.0472	8.4667	0.5236	0.3333	0.6666	0.3857	0.7190
3½	0.8976	7.2571	0.4488	0.2857	0.5714	0.3306	0.6163
4	0.7854	6.35	0.3927	0.2500	0.5000	0.2893	0.5393
5	0.6283	5.08	0.3142	0.2000	0.4000	0.2314	0.4314
6	0.5236	4.2333	0.2618	0.1666	0.3333	0.1928	0.3595
7	0.4488	3.6286	0.2244	0.1429	0.2857	0.1653	0.3081
8	0.3927	3.175	0.1963	0.1250	0.2500	0.1446	0.2696
9	0.3491	2.8222	0.1745	0.1111	0.2222	0.1286	0.2397
10	0.3142	2.54	0.1571	0.1000	0.2000	0.1157	0.2157
11	0.2856	2.3091	0.1428	0.0909	0.1818	0.1052	0.1961
12	0.2618	2.1167	0.1309	0.0833	0.1666	0.0964	0.1798
13	0.2417	1.9538	0.1208	0.0769	0.1538	0.0890	0.1659
14	0.2244	1.8143	0.1122	0.0714	0.1429	0.0826	0.1541
15	0.2094	1.6933	0.1047	0.0666	0.1333	0.0771	0.1438
16	0.1963	1.5875	0.0982	0.0625	0.1250	0.0723	0.1348
17	0.1848	1.4941	0.0924	0.0588	0.1176	0.0681	0.1269
18	0.1745	1.4111	0.0873	0.0555	0.1111	0.0643	0.1198
19	0.1653	1.3368	0.0827	0.0526	0.1053	0.0609	0.1135
20	0.1571	1.27	0.0785	0.0500	0.1000	0.0579	0.1079
22	0.1428	1.1545	0.0714	0.0455	0.0909	0.0526	0.0980
24	0.1309	1.0583	0.0654	0.0417	0.0833	0.0482	0.0898
26	0.1208	0.9769	0.0604	0.0385	0.0769	0.0445	0.0829
28	0.1122	0.9071	0.0561	0.0357	0.0714	0.0413	0.0770
30	0.1047	0.8467	0.0524	0.0333	0.0666	0.0386	0.0719
32	0.0982	0.7938	0.0491	0.0312	0.0625	0.0362	0.0674
34	0.0924	0.7471	0.0462	0.0294	0.0588	0.0340	0.0634
36	0.0873	0.7056	0.0436	0.0278	0.0555	0.0321	0.0599
38	0.0827	0.6684	0.0413	0.0263	0.0526	0.0304	0.0568
40	0.0785	0.635	0.0393	0.0250	0.0500	0.0289	0.0539

*NOTE: Dimensions listed are for HOB CUT TEETH ONLY. Shaper cut teeth may be slightly larger. Consult factory for exact measurement.

All Gears In Stock Are Diametral Pitch

Rules and Formulas For Spur Gear Calculations

Circular Pitch

Circular Pitch is the Distance from the Center of One Tooth to the Center of the Next Tooth, Measured Along the Pitch Circle.

To Find	Having	Rule	Formula
The Circular Pitch	The Diametral Pitch	Divide 3.1416 by the Diametral Pitch	$CP = \frac{3.1416}{DP}$
The Circular Pitch	The Pitch Diameter and the Number of Teeth	Divide Pitch Diameter by the product of .3183 and Number of Teeth	$CP = \frac{PD}{.3183N}$
The Circular Pitch	The Outside Diameter and the Number of Teeth	Divide Outside Diameter by the product of .3183 and Number of Teeth plus 2	$CP = \frac{OD}{.3183 N + 2}$
Pitch Diameter	The Number of Teeth and the Circular Pitch	The continued product of the Number of Teeth, the Circular Pitch and .3183	$PD = N \times CP \times .3183$
Pitch Diameter	The Number of Teeth and the Outside Diameter	Divide the product of Number of Teeth and Outside Diameter by Number of Teeth plus 2	$PD = \frac{N \times OD}{N + 2}$
Pitch Diameter	The Outside Diameter and the Circular Pitch	Subtract from the Outside Diameter the product of the Circular Pitch and .6366	$PD = OD - (CP \times .6366)$
Pitch Diameter	Addendum and the Number of Teeth	Multiply the Number of Teeth by the Addendum	$PD = NA$
Outside Diameter	The Number of Teeth and the Circular Pitch	The continued product of the Number of Teeth plus 2, the Circular Pitch and .3183	$D = (N + 2) CP \times .3183$
Outside Diameter	The Pitch Diameter and the Circular Pitch	Add to the Pitch Diameter the product of the Circular Pitch and .6366	$D = PD + (CP \times .6366)$
Outside Diameter	The Number of Teeth and the Addendum	Multiply Addendum by Number of Teeth plus 2	$D = A (N + 2)$
Number of Teeth	The Pitch Diameter and the Circular Pitch	Divide the product of Pitch Diameter and 3.1416 by the Circular Pitch	$N = \frac{PD \times 3.1416}{CP}$
Thickness of Tooth	The Circular Pitch	One-half the Circular Pitch	$t = \frac{CP}{2}$
Addendum	The Circular Pitch	Multiply the Circular Pitch by .3183 or $s = \frac{DP}{N}$	$A = CP \times .3183$
Dedendum	The Circular Pitch	Multiply the Circular Pitch by .3683	$A + L = CP \times .3683$
Working Depth	The Circular Pitch	Multiply the Circular Pitch by .6366	$WD = CP \times .6366$
Whole Depth	The Circular Pitch	Multiply the Circular Pitch by .6866	$D = CP \times .6866$
Clearance	The Circular Pitch	Multiply the Circular Pitch by .05	$L = C \times .05$
Clearance	Thickness of Tooth	One-Tenth the Thickness of Tooth at Pitch Line	$L = \frac{t}{10}$

NOTE: Rules and Formulas Relating to Tooth Depth and Outside Diameter Apply to Full-Depth, Equal Addendum Gears.

Circular Pitch Gears Made To Order Only

Circular Pitch Tooth Dimensions



Dimensions of Standard Full-depth Teeth Circular Pitches and Equivalent Diametral Pitches

Circular Pitch	Diametral Pitch	Module	Arc Thickness of Tooth on Pitch Line	Addendum	Working Depth of Tooth	Dedendum or Depth of Space Below Pitch Line	Whole Depth of Tooth
4	0.7854	32.3402	2.0000	1.2732	2.5464	1.4732	2.7464
3½	0.8976	28.2581	1.7500	1.1140	2.2281	1.2890	2.4031
3	1.0472	24.2552	1.5000	0.9549	1.9098	1.1049	2.0598
2½	1.1424	22.2339	1.3750	0.8753	1.7506	1.0128	1.8881
2¼	1.2566	20.2117	1.2500	0.7957	1.5915	0.9207	1.7165
2	1.3963	18.1913	1.1250	0.7162	1.4323	0.8287	1.5448
1¾	1.5708	16.1701	1.0000	0.6366	1.2732	0.7366	1.3732
1½	1.6755	15.1595	0.9375	0.5968	1.1937	0.6906	1.2874
1¼	1.7952	14.1488	0.8750	0.5570	1.1141	0.6445	1.2016
1⅓	1.9333	13.1382	0.8125	0.5173	1.0345	0.5985	1.1158
1½	2.0944	12.1276	0.7500	0.4775	0.9549	0.5525	1.0299
1⅙	2.1855	11.6223	0.7187	0.4576	0.9151	0.5294	0.9870
1⅓	2.2848	11.1169	0.6875	0.4377	0.8754	0.5064	0.9441
1⅕	2.3936	10.6116	0.6562	0.4178	0.8356	0.4834	0.9012
1¼	2.5133	10.1062	0.6250	0.3979	0.7958	0.4604	0.8583
1⅙	2.6456	9.6010	0.5937	0.3780	0.7560	0.4374	0.8154
1⅓	2.7925	9.0958	0.5625	0.3581	0.7162	0.4143	0.7724
1⅕	2.9568	8.5904	0.5312	0.3382	0.6764	0.3913	0.7295
1	3.1416	8.0851	0.5000	0.3183	0.6366	0.3683	0.6866
⅝	3.3510	7.5798	0.4687	0.2984	0.5968	0.3453	0.6437
⅔	3.5904	7.0744	0.4375	0.2785	0.5570	0.3223	0.6007
⅙	3.8666	6.5692	0.4062	0.2586	0.5173	0.2993	0.5579
¾	4.1888	6.0639	0.3750	0.2387	0.4775	0.2762	0.5150
⅕	4.5696	5.5586	0.3437	0.2189	0.4377	0.2532	0.4720
⅔	4.7124	5.3903	0.3333	0.2122	0.4244	0.2455	0.4577
⅙	5.0265	5.0532	0.3125	0.1989	0.3979	0.2301	0.4291
⅓	5.5851	4.5479	0.2812	0.1790	0.3581	0.2071	0.3862
⅕	6.2832	4.0426	0.2500	0.1592	0.3183	0.1842	0.3433
⅙	7.1808	3.5373	0.2187	0.1393	0.2785	0.1611	0.3003
⅓	7.8540	3.2340	0.2000	0.1273	0.2546	0.1473	0.2746
⅙	8.3776	3.0319	0.1875	0.1194	0.2387	0.1381	0.2575
¼	9.4248	2.6947	0.1666	0.1061	0.2122	0.1228	0.2289
⅙	10.0531	2.5266	0.1562	0.0995	0.1989	0.1151	0.2146
⅓	10.9956	2.3100	0.1429	0.0909	0.1819	0.1052	0.1962
¼	12.5664	2.0213	0.1250	0.0796	0.1591	0.0921	0.1716
⅙	14.1372	1.7967	0.1111	0.0707	0.1415	0.0818	0.1526
⅓	15.7080	1.6170	0.1000	0.0637	0.1273	0.0737	0.1373
⅙	16.7552	1.5160	0.0937	0.0597	0.1194	0.0690	0.1287
⅓	18.8496	0.5053	0.0833	0.0531	0.1061	0.0614	0.1144

All Circular Pitch Gears Are Made-To-Order

Rules and Formulas For Module (Metric) Spur Gear Calculations

(Module Represents the Amount of Pitch Diameter per Tooth)

To Find	Having	Rule	Formula
Metric Module	Pitch Diameter and Number of Teeth	Divide Pitch Diameter in Millimeters by the Number of Teeth	$M = \frac{PD \text{ (Millimeters)}}{N}$
Metric Module	Circular Pitch in Millimeter	Divide Circular Pitch in Millimeters by Pi (3.1416)	$M = \frac{C \text{ (Millimeters)}}{3.1416}$
Metric Module	Diametral Pitch	Divide 25.4 by Diametral Pitch	$M = \frac{25.4}{DP}$
Metric Module	Outside Diameter and Number of Teeth	Divide Outside Diameter (in Millimeters) by the Number of Teeth plus 2	$M = \frac{OD}{N + 2}$
Pitch Diameter	Module and Number of Teeth	Multiply Module by Number of Teeth	$PD \text{ (In MM)} = M \times N$
Pitch Diameter	Number of Teeth and Outside Diameter	Divide the product of Outside Diameter and No. of Teeth by No. of Teeth plus 2	$PD = \frac{OD \times N}{N + 2}$
Pitch Diameter	Outside Diameter and the Module	Multiply Module by 2 and Subtract from Outside Diameter	$PD = OD - 2M$
Outside Diameter	Module and Number of Teeth	Number of Teeth plus 2 Multiplied by Module	$OD \text{ (In MM)} = (N + 2) \times M$
Diametral Pitch	Module	Divide 25.4 by Module	$DP = \frac{25.4}{M}$
Circular Pitch	Module	Multiply Module by Pi (3.1416)	$CP \text{ (In MM)} = M \times 3.1416$
Addendum	Module Known	The Addendum equals the Module	$A = M$
Whole Depth	Module Known	Multiply 2.157 by Module	$WD \text{ (In MM)} = 2.157 \times M$
Thickness of Tooth	Module and Outside Diameter	Multiply Pitch Diameter (in Millimeters) by the Sine of the Angle of 90 Divided by the Number of Teeth	$t \text{ (In MM)} = PD \text{ (MM)} \times \text{Sine } \frac{90}{N}$
English Module	Pitch Diameter in Inches and Number of Teeth	Divide Pitch Diameter in Inches by Number of Teeth	$M = \frac{PD \text{ (Inches)}}{N}$ (Answer in Fraction)

NOTE: Rules and Formulas Relating to Tooth Depth and Outside Diameter Apply to Full-Depth, Equal Addendum Gears.

Module Pitch Tooth Dimensions



Tooth Dimensions Based Upon Module System

(One millimeter equals 0.03937 inch)

Module, DIN Standard Series	Equivalent Diametral Pitch	Circular Pitch		Addendum, Millimeters	Dedendum, Millimeters†	Whole Depth,† Millimeters	Whole Depth,‡ Millimeters
		Millimeters	Inches				
0.30	84.667	0.943	0.0371	0.30	0.350	0.650	0.647
0.40	63.500	1.257	0.0495	0.40	0.467	0.867	0.863
0.50	50.800	1.571	0.0618	0.50	0.583	1.083	1.079
0.60	42.333	1.885	0.0742	0.60	0.700	1.300	1.294
0.70	36.286	2.199	0.0865	0.70	0.817	1.517	1.510
0.80	31.750	2.513	0.0989	0.80	0.933	1.733	1.726
0.90	28.222	2.827	0.1113	0.90	1.050	1.950	1.941
1.00	25.400	3.142	0.1237	1.00	1.167	2.167	2.157
1.25	20.320	3.927	0.1546	1.25	1.458	2.708	2.697
1.50	16.933	4.712	0.1855	1.50	1.750	3.250	3.236
1.75	14.514	5.498	0.2164	1.75	2.042	3.792	3.774
2.00	12.700	6.283	0.2474	2.00	2.333	4.333	4.314
2.25	11.289	7.069	0.2783	2.25	2.625	4.875	4.853
2.50	10.160	7.854	0.3092	2.50	2.917	5.417	5.392
2.75	9.236	8.639	0.3401	2.75	3.208	5.958	5.932
3.00	8.466	9.425	0.3711	3.00	3.500	6.500	6.471
3.25	7.815	10.210	0.4020	3.25	3.791	7.041	7.010
3.50	7.257	10.996	0.4329	3.50	4.083	7.583	7.550
3.75	6.773	11.781	0.4638	3.75	4.375	8.125	8.089
4.00	6.350	12.566	0.4947	4.00	4.666	8.666	8.628
4.50	5.644	14.137	0.5566	4.50	5.250	9.750	9.707
5.00	5.080	15.708	0.6184	5.00	5.833	10.833	10.785
5.50	4.618	17.279	0.6803	5.50	6.416	11.916	11.864
6.00	4.233	18.850	0.7421	6.00	7.000	13.000	12.942
6.50	3.908	20.420	0.8035	6.50	7.583	14.083	14.021
7.00	3.628	21.991	0.8658	7.00	8.166	15.166	15.099
8.00	3.175	25.132	0.9895	8.00	9.333	17.333	17.256
9.00	2.822	28.274	1.1132	9.00	10.499	19.499	19.413
10.00	2.540	31.416	1.2368	10.00	11.666	21.666	21.571
11.00	2.309	34.558	1.3606	11.00	12.833	23.833	23.728
12.00	2.117	37.699	1.4843	12.00	14.000	26.000	25.884
13.00	1.954	40.841	1.6079	13.00	15.166	28.166	28.041
14.00	1.814	43.982	1.7317	14.00	16.332	30.332	30.198
15.00	1.693	47.124	1.8541	15.00	17.499	32.499	32.355
16.00	1.587	50.266	1.9790	16.00	18.666	34.666	34.512
18.00	1.411	56.549	2.2263	18.00	21.000	39.000	38.826
20.00	1.270	62.832	2.4737	20.00	23.332	43.332	43.142
22.00	1.155	69.115	2.7210	22.00	25.665	47.665	47.454
24.00	1.058	75.398	2.9685	24.00	28.000	52.000	51.768
27.00	0.941	84.823	3.339	27.00	31.498	58.498	58.239
30.00	0.847	94.248	3.711	30.00	35.000	65.000	64.713
33.00	0.770	103.673	4.082	33.00	38.498	71.498	71.181
36.00	0.706	113.097	4.453	36.00	41.998	77.998	77.652
39.00	0.651	122.522	4.824	39.00	45.497	84.497	84.123
42.00	0.605	131.947	5.195	42.00	48.997	90.997	90.594
45.00	0.564	141.372	5.566	45.00	52.497	97.497	97.065
50.00	0.508	157.080	6.184	50.00	58.330	108.330	107.855
55.00	0.462	172.788	6.803	55.00	64.163	119.163	118.635
60.00	0.423	188.496	7.421	60.00	69.996	129.996	129.426
65.00	0.391	204.204	8.040	65.00	75.829	140.829	140.205
70.00	0.363	219.911	8.658	70.00	81.662	151.662	150.997
75.00	0.339	235.619	9.276	75.00	87.495	162.495	161.775

† Dedendum and total depth when clearance = 0.1666 x module, or one-sixth module.

‡ Total Depth equivalent to American standard full-depth teeth. (Clearance = 0.157 x Module.)

To Find	Rule	Formula
Pitch Diameter	Divide Number of Teeth by Diametral Pitch	Pitch Diameter = $\frac{\text{Number of Teeth}}{\text{Diametral Pitch}}$
Tangent of Pitch Angle Of Driven	Divide Number of Teeth in Driven by Number of Teeth in Driver	Tangent Pitch Angle of Driven = $\frac{\text{Number of Teeth in Driven}}{\text{Number of Teeth in Driver}} = \text{Ratio}$
Pitch Angle of Driver	Subtract Pitch Angle of Driven from 90 Degrees	Pitch Angle Of Driver = 90 Degrees - Pitch Angle of Driven
Pitch Cone Radius	Divide Pitch Diameter by Twice the Sine of the Pitch Angle	Pitch Cone Radius = $\frac{\text{Pitch Diameter}}{2 \times \text{Sine Pitch Angle}}$
Tangent of Addendum Angle	Divide Addendum by the Pitch Cone Radius	Tangent of Addendum Angle = $\frac{\text{Addendum}}{\text{Pitch Cone Radius}}$
Face Angle	Add Addendum Angle to Pitch Angle	Face Angle = Addendum Angle + Pitch Angle
Tangent of Dedendum Angle	Divide Dedendum by the Pitch Cone Radius	Tangent of Dedendum Angle = $\frac{\text{Dedendum}}{\text{Pitch Cone Radius}}$
Root Angle	Subtract Dedendum Angle from Pitch Angle	Root Angle = Pitch Angle - Dedendum Angle
Angular Addendum	Multiply Addendum by Cosine of Pitch Angle	Angular Addendum = Addendum \times Cosine Pitch Angle
Outside Diameter	Add 2 Angular Addenda to Pitch Diameter	Outside Diameter = 2 Angular Addenda \times Pitch Diameter
Mounting Distance	Add one-half the Pitch Diameter of Mating to Pitch Line	Mounting Distance = $\frac{\text{Pitch Diameter of Mate}}{2} + \text{Backing to Pitch Line}$
Distance From Cone Center to Crown	Multiply one-half Outside Diameter by Co-tangent of Face Angle	Cone Center to Crown = $\frac{\text{Outside Diameter}}{2} \times \text{Co-Tangent Face Angle}$
Backing to Crown	Subtract Cone Center to Crown from Mounting Distance	Backing to Crown = Mounting Distance - Cone Center to Crown
Ratio	Divide Teeth in Driven by Teeth in Driver	Ratio = $\frac{\text{Number of Teeth in Driven}}{\text{Number of Teeth in Driver}}$

Formula For Worm Gears

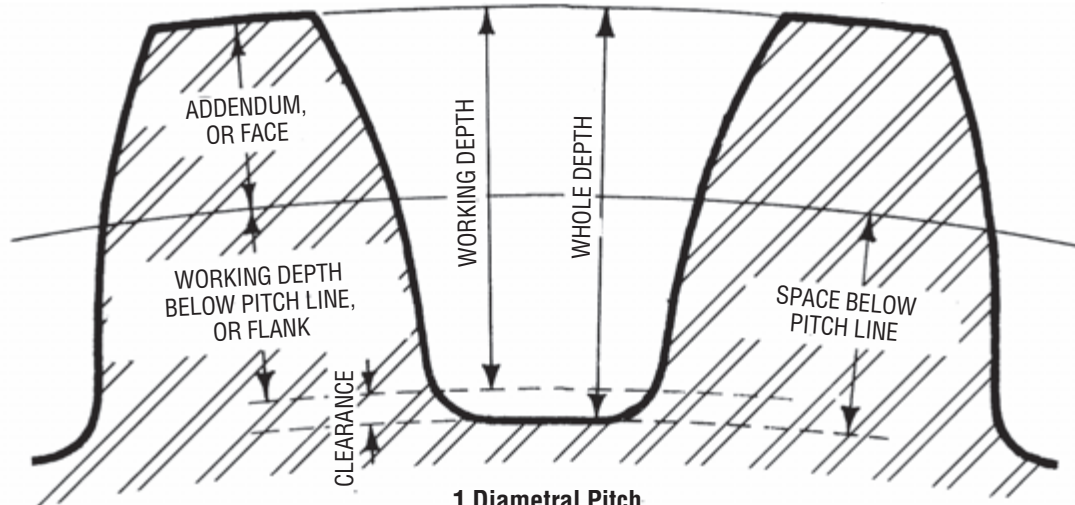


(Based On Diametral Pitch)

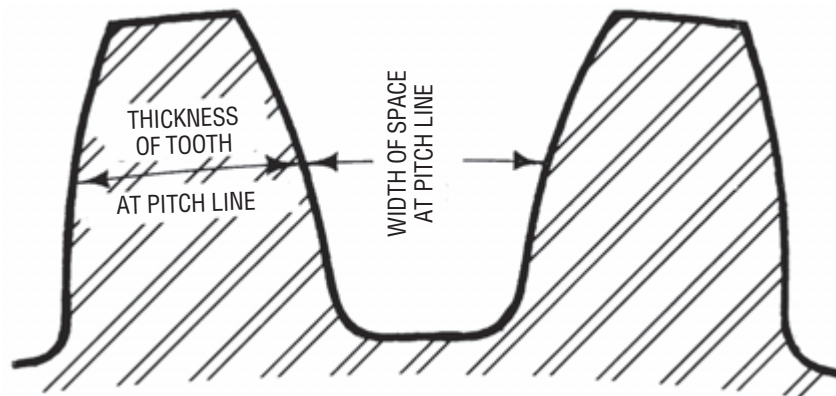
To Find	Rule	Formula
Worm Gear Pitch Diameter	Divide Number of Teeth by Diametral Pitch	Pitch Diameter = $\frac{\text{Number of Teeth in Worm Gear}}{\text{Diametral Pitch}}$
Worm Gear Throat Diameter	Add 2 Addenda to Pitch Diameter	Throat Diameter = $(2 \times \text{Addendum}) + \text{Pitch Diameter}$
Worm Gear Outside Diameter	Add 3 Addenda to Pitch Diameter	Outside Diameter = $(3 \times \text{Addendum}) + \text{Pitch Diameter}$
Worm Pitch Diameter	Subtract the Worm Gear Pitch Diameter from Twice the Center Distance	Worm Pitch Diameter = $(2 \times \text{Center Distance}) - \text{Worm Gear Pitch Diameter}$
Worm Outside Diameter	Add 2 Addenda to Worm Pitch Diameter	Worm Outside Diameter = $\text{Worm Pitch Diameter} + 2 \times \text{Addendum}$
Worm Lead	Divide 3.1416 by Diametral Pitch and Multiply by Number of Threads in Worm	Worm Lead = $\frac{3.1416}{\text{Diametral Pitch}} \times \text{Number of Threads in Worm}$
Co-Tangent of Worm Helix Angle	Multiply Worm Pitch Diameter by Diametral Pitch and Divide by Number of Worm Threads	Co-Tangent Worm Helix Angle = $\frac{\text{Worm Pitch Diameter} \times \text{Diametral Pitch}}{\text{Number Worm Threads}}$
Center Distance	Add Worm Pitch Diameter to Worm Gear Pitch Diameter and Divide Sum by 2	Center Distance = $\frac{\text{Worm Pitch Diameter} + \text{Worm Gear Pitch Diameter}}{2}$
Ratio	Divide Number of Teeth in Worm Gear by Number of Worm Threads	Ratio = $\frac{\text{Number of Teeth in Worm Gear}}{\text{Number of Worm Threads}}$

NOTE: Tooth data (Addendum, Full Depth, Etc.) is same as for Spur Gears.

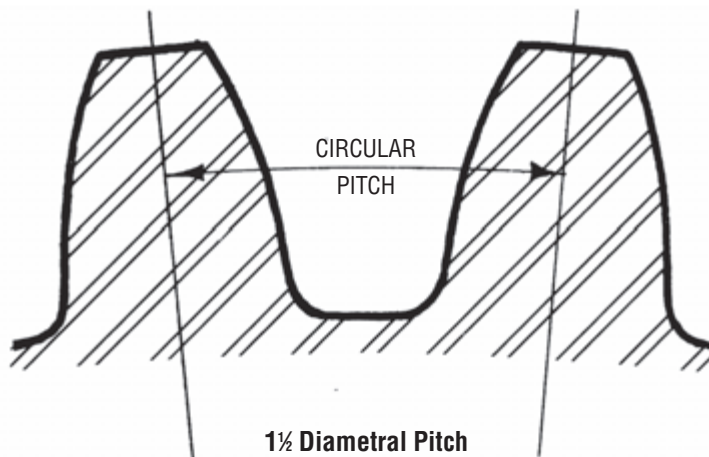
Comparative Sizes of Involute Gear Teeth



1 Diametral Pitch
3.1416" Circular Pitch



1¼ Diametral Pitch
2.5133" Circular Pitch

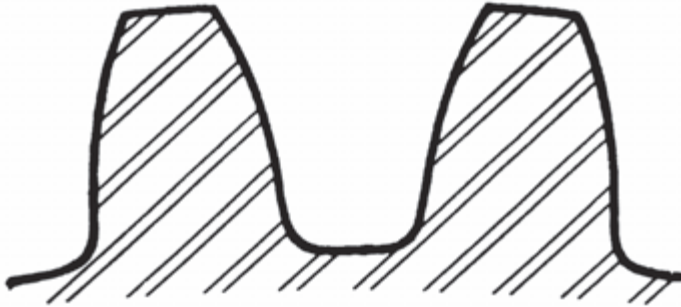


1½ Diametral Pitch
2.0944" Circular Pitch

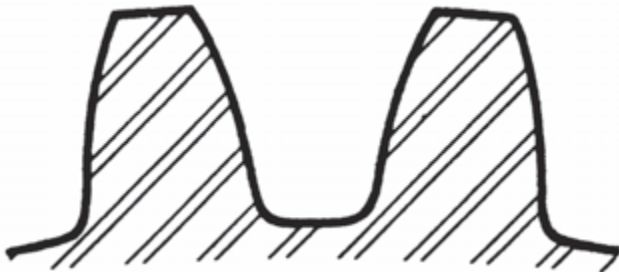
Formula For Worm Gears



Comparative Sizes of Involute Gear Teeth



1½ Diametral Pitch
1.7952" Circular Pitch



2 Diametral Pitch
1.5708" Circular Pitch



2½ Diametral Pitch
1.2566" Circular Pitch



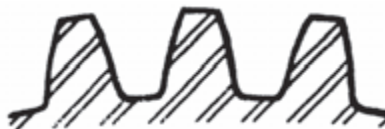
3 Diametral Pitch
1.0472" Circular Pitch



3½ Diametral Pitch
.8976" Circular Pitch



4 Diametral Pitch
.7854" Circular Pitch

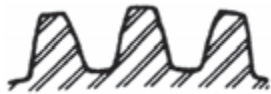


5 Diametral Pitch
.6283" Circular Pitch



6 Diametral Pitch
.5236" Circular Pitch

Comparative Sizes of Involute Gear Teeth



7 Diametral Pitch
.4488" Circular Pitch



8 Diametral Pitch
.3927" Circular Pitch



10 Diametral Pitch
.3142" Circular Pitch



12 Diametral Pitch
.2618" Circular Pitch



14 Diametral Pitch
.2244" Circular Pitch



16 Diametral Pitch
.1963" Circular Pitch

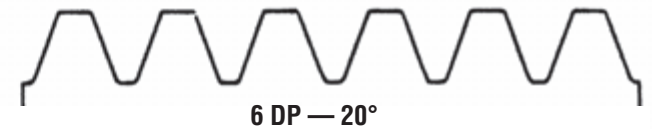
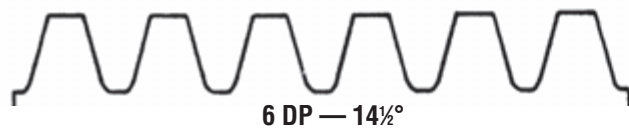
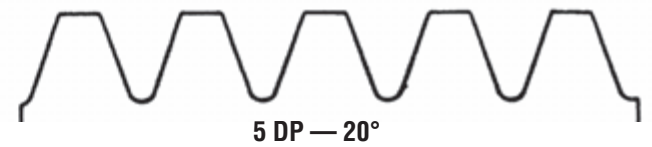
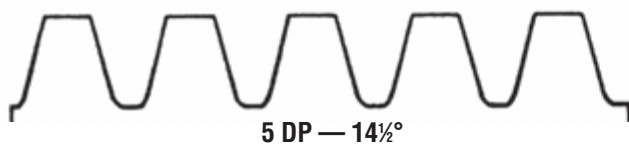
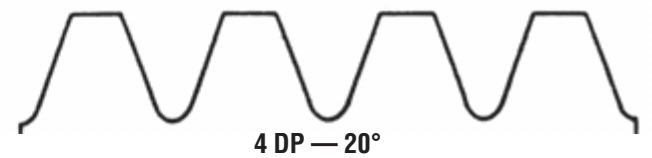
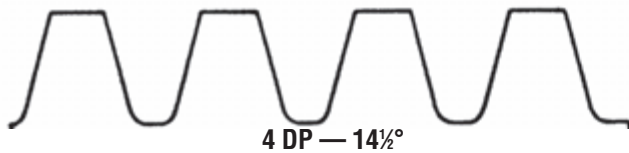
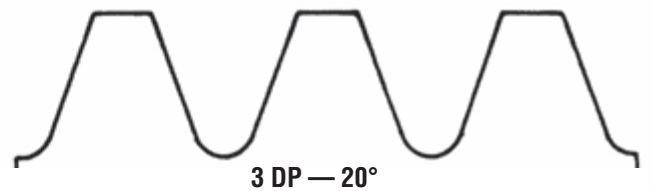
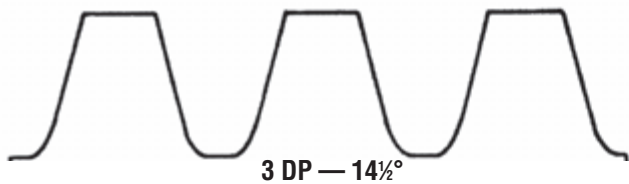


18 Diametral Pitch
.1745" Circular Pitch



20 Diametral Pitch
.1571" Circular Pitch

Gear Rack Comparison — 14½ and 20°



Formula For Worm Gears



Stock Steel Gears

Martin steel gears are manufactured from high quality carbon steel material. This material is used for strength and good hardening characteristics. These gears may be hardened by any method acceptable to good practice such as flame or induction hardening. Flame hardening is preferred so that only the teeth are hardened. Distortion is virtually eliminated and the bore is left soft for subsequent work.

Cast Gears

Martin cast iron gears are manufactured from high quality close grained controlled specification irons.

Reboring of Stock Gears

Most of *Martin's* Stock Gears may be rebored. The maximum recommended bore size is given for each gear. In reboring gears, care must be taken to hold the bore concentric with the pitch diameter. In most cases this would require a great amount of time. To cut costly set-up time when reboring, *Martin* holds the outside diameter of its gears concentric with the bore which in turn is concentric with the pitch diameter. The outside diameter is held to a closer total indicator reading than the pitch diameter. In the finer pitches, care should be taken not to distort the outside diameter when chucking.

Martin's steel gears are machined all over.

Rebore or rework may be accomplished by chucking on the hub. Concentricity must be controlled in order for gears to run at maximum efficiency.

MATERIAL HANDLING

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Stock & MTO Screw Conveyor Components



Screw Conveyor Components and Accessories



ANGLE FLANGED "U" TROUGH



FORMED FLANGED "U" TROUGH



TUBULAR HOUSING



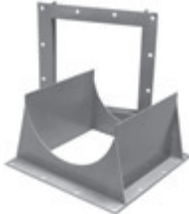
FLAT RACK AND PINION DISCHARGE GATE



TROUGH ENDS WITH AND WITHOUT FEET



THRUST ASSEMBLY TYPE E WITH DRIVE SHAFT



INLET AND DISCHARGE SPOUTS



SPLIT GLAND



PACKING GLAND SHAFT SEAL COMPRESSION TYPE



WASTE PACK SHAFT SEAL



PLATE SHAFT SEAL



DROP-OUT SHAFT SEAL FLANGED PRODUCT



HELICOID SCREWS



HELICOID FLIGHTING RIGHT HAND AND LEFT HAND



SHAFTLESS SCREWS



SECTIONAL SCREWS



SPECIAL SCREWS



SECTIONAL FLIGHTS



COUPLING SHAFTS



ELEVATOR BUCKETS



HANGER STYLE 220



HANGER STYLE 226



HANGER STYLE 216



HANGER STYLE 70



HANGER STYLE 19B



TROUGH END BEARING BALL AND ROLLER



HANGER BEARINGS STYLE 220/226

Martin HARD IRON
Martin BRONZE
NYLATRON
WHITE NYLON
WOOD
CERAMIC



SADDLES AND FEET



SCREW CONVEYOR DRIVE WITH ACCESSORIES



SPEED REDUCER SHAFT MOUNTED WITH ACCESSORIES



FLANGED COVER WITH ACCESSORIES

Martin manufactures the most complete line of stock components in the industry. We stock mild steel, stainless, galvanized, and many other items that are "special order" from the others in the industry.

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Introduction

The following section is designed to present the necessary engineering information to properly design and layout most conveyor applications. The information has been compiled from many years of experience in successful design and application and from industry standards.

We hope that the information presented will be helpful to you in determining the type and size of screw conveyor that will best suit your needs.

The “Screw Conveyor Design Procedure” on the following page gives ten step-by-step instructions for properly designing a screw conveyor. These steps, plus the many following tables and formulas throughout the engineering section will enable you to design and detail screw conveyor for most applications.

If your requirements present any complications not covered in this section, we invite you to contact our Engineering Department for recommendations and suggestions.

Screw Conveyor Design Procedure

Screw Conveyor Design Procedure		
STEP 1	Establish Known Factors	<ol style="list-style-type: none"> 1. Type of material to be conveyed. 2. Maximum size of hard lumps. 3. Percentage of hard lumps by volume. 4. Capacity required, in cu.ft./hr. 5. Capacity required, in lbs./hr. 6. Distance material to be conveyed. 7. Any additional factors that may affect conveyor or operations.
STEP 2	Classify Material	Classify the material according to the system shown in Table 1-1. Or, if the material is included in Table 1-2, use the classification shown in Table 1-2.
STEP 3	Determine Design Capacity	Determine design capacity as described on pages H-16–H-18.
STEP 4	Determine Diameter and Speed	Using known capacity required in cu.ft./hr., material classification, and % trough loading (Table 1-2) determine diameter and speed from Table 1-6.
STEP 5	Check Minimum Screw Diameter for Lump Size Limitations	Using known screw diameter and percentage of hard lumps, check minimum screw diameter from Table 1-7.
STEP 6	Determine Type of Bearings	From Table 1-2, determine hanger bearing group for the material to be conveyed. Locate this bearing group in Table 1-11 for the type of bearing recommended.
STEP 7	Determine Horsepower	From Table 1-2, determine Horsepower Factor "Fm" for the material to be conveyed. Refer to page H-23 and calculate horsepower by the formula method.
STEP 8	Check Torsional and/or Horsepower ratings of Standard Conveyor Components	Using required horsepower from step 7 refer to pages H-26 and H-27 to check capacities of standard conveyor pipe, shafts and coupling bolts.
STEP 9	Select Components	Select basic components from Tables 1-8, 1-9, and 1-10 in accordance with Component Group listed in Table 1-2 for the material to be conveyed. Select balance of components from the Components Section of catalog.
STEP 10	Conveyor Layouts	Refer to pages H-39 and H-40 for typical layout details.



Table 1-1 Material Classification Code Chart

Major Class	Material Characteristics Included		Code Designation
Density	Bulk Density, Loose		Actual lbs/PC
Size	Very Fine	No. 200 Sieve (.0029") and Under	A200
		No. 100 Sieve (.0059") and Under	A100
		No. 40 Sieve (.016") and Under	A40
	Fine	No. 6 Sieve (.132") and Under	B6
	Granular	1/2" And Under (6" Sieve to 1/2")	C1/2
		3" And Under (1/2" to 3")	D3
		7" And Under (3" to 7")	D7
	Lumpy	16" And Under (0" to 16")	D16
Over 16" To Be Specified, X = Actual Maximum Size		DX	
Irregular	Irregular Stringy, Fibrous, Cylindrical, Slabs, Etc.	E	
Flowability	Very Free Flowing		1
	Free Flowing		2
	Average Flowability		3
	Sluggish		4
Abrasiveness	Mildly Abrasive		5
	Moderately Abrasive		6
	Extremely Abrasive		7
Miscellaneous Properties or Hazards	Builds Up and Hardens		F
	Generates Static Electricity		G
	Decomposes — Deteriorates in Storage		H
	Flammability		J
	Becomes Plastic or Tends to Soften		K
	Very Dusty		L
	Aerates and Becomes a Fluid		M
	Explosiveness		N
	Stickiness — Adhesion		O
	Contaminable, Affecting Use		P
	Degradable, Affecting Use		Q
	Gives Off Harmful or Toxic Gas or Fumes		R
	Highly Corrosive		S
	Mildly Corrosive		T
	Hygroscopic		U
	Interlocks, Mats or Agglomerates		V
	Oils Present		W
	Packs Under Pressure		X
	Very Light and Fluffy — May Be Windswept		Y
	Elevated Temperature		Z

Table 1-2 Material Characteristics



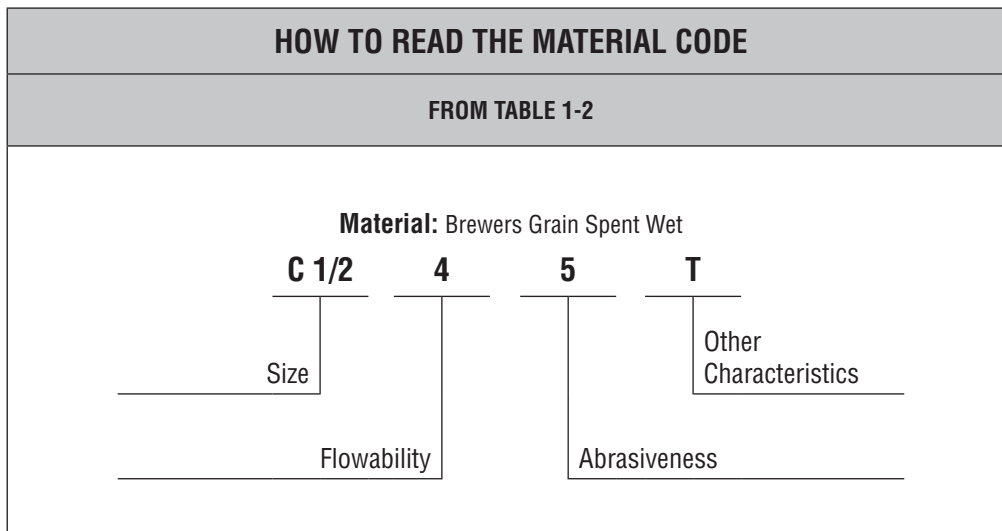
Material Characteristics

The material characteristics table (page H-7 or H-15) lists the following Design Data for many materials.

- A. The weight per cubic foot data may be used to calculate the required capacity of the conveyor in cubic feet per hour.
- B. B. The material code for each material is as described in Table 1-1, and as interpreted below.
- C. The Intermediate Bearing Selection Code is used to properly select the intermediate hanger bearing from Table 1-11 (Page H-22).
- D. The Component Series Code is used to determine the correct components to be used as shown on page H-21.
- E. The Material Factor F_m is used in determining horsepower as described on pages H-23 thru H-25.
- F. The Trough Loading column indicates the proper percent of cross section loading to use in determining diameter and speed of the conveyor.

For screw conveyor design purposes, conveyed materials are classified in accordance with the code system in Table 1-1, and listed in Table 1-2.

Table 1-2 lists many materials that can be effectively conveyed by a screw conveyor. If a material is not listed in Table 1-2, it must be classified according to Table 1-1 or by referring to a listed material similar in weight, particle size and other characteristics.



Material	Weight lbs. per cu. ft	Intermediate Material Code	Bearing Selection	Component Series	Material Factor Fm	Trough Loading
Adipic Acid	45	A100-35	S	2	.5	30A
Alfalfa Meal	14-22	B6-45WY	H	2	.6	30A
Alfalfa Pellets	41-43	C1/2-25	H	2	.5	45
Alfalfa Seed	10-15	B6-15N	L-S-B	1	.4	45
Almonds, Broken	27-30	C1/2-35Q	H	2	.9	30A
Almonds, Whole Shelled	28-30	C1/2-35Q	H	2	.9	30A
Alum, Fine	45-50	B6-35U	L-S-B	1	.6	30A
Alum, Lumpy	50-60	B6-25	L-S	2	1.4	45
Alumina	55-65	B6-27MY	H	3	1.8	15
Alumina, Fine	35	A100-27MY	H	3	1.6	15
Alumina Sized or Briquette	65	D3-37	H	3	2.0	15
Aluminate Gel (Aluminate Hydroxide)	45	B6-35	H	2	1.7	30A
Aluminum Chips, Dry	7-15	E-45V	H	2	1.2	30A
Aluminum Chips, Oily	7-15	E-45V	H	2	.8	30A
Aluminum Hydrate	13-20	C1/2-35	L-S-B	1	1.4	30A
Aluminum Ore (See Bauxite)	—	—	—	—	—	—
Aluminum Oxide	60-120	A100-17M	H	3	1.8	15
Aluminum Silicate (Andalusite)	49	C1/2-35S	L-S	3	.8	30A
Aluminum Sulfate	45-58	C1/2-25	L-S-B	1	1.0	45
Ammonium Chloride, Crystalline	45-52	A100-45FRS	L-S	3	.7	30A
Ammonium Nitrate	45-62	A40-35NTU	H	3	1.3	30A
Ammonium Sulfate	45-58	C1/2-35FOTU	L-S	1	1.0	30A
Antimony Powder	—	A100-35	H	2	1.6	30A
Apple Pomace, Dry	15	C1/2-45Y	H	2	1.0	30A
Arsenate Of Lead (See Lead Arsenate)	—	—	—	—	—	—
Arsenic Oxide (Arsenolite)	100-120	A100-35R	L-S-B	—	—	30A
Arsenic Pulverized	30	A100-25R	H	2	.8	45
Asbestos — Rock (Ore)	81	D3-37R	H	3	1.2	15
Asbestos — Shredded	20-40	E-46XY	H	2	1.0	30B
Ash, Black Ground	105	B6-35	L-S-B	1	2.0	30A
Ashes, Coal, Dry — 1/2"	35-45	C1/2-46TY	H	3	3.0	30B
Ashes, Coal, Dry — 3"	35-40	D3-46T	H	3	2.5	30B
Ashes, Coal, Wet — 1/2"	45-50	C1/2-46T	H	3	3.0	30B
Ashes, Coal, Wet — 3"	45-50	D3-46T	H	3	4.0	30B
Ashes, Fly (See Fly Ash)	—	—	—	—	—	—
Asphalt, Crushed — 1/2"	45	C1/2-45	H	2	2.0	30A
Bagasse	7-10	E-45RVXY	L-S-B	2	1.5	30A
Bakelite, Fine	30-45	B6-25	L-S-B	1	1.4	45
Baking Powder	40-55	A100-35	S	1	.6	30A
Baking Soda (Sodium Bicarbonate)	40-55	A100-25	S	1	.6	45
Barite (Barium Sulfate) + 1/2" — 3"	120-180	D3-36	H	3	2.6	30B
Barite, Powder	120-180	A100-35X	H	2	2.0	30A
Barium Carbonate	72	A100-45R	H	2	1.6	30A
Bark, Wood, Refuse	10-20	E-45TVY	H	3	2.0	30A
Barley, Fine, Ground	24-38	B6-35	L-S-B	1	.4	30A
Barley, Malted	31	C1/2-35	L-S-B	1	.4	30A
Barley, Meal	28	C1/2-35	L-S-B	1	.4	30A
Barley, Whole	36-48	B6-25N	L-S-B	1	.5	45
Basalt	80-105	B6-27	H	3	1.8	15
Bauxite, Dry, Ground	68	B6-25	H	2	1.8	45
Bauxite, Crushed — 3"	75-85	D3-36	H	3	2.5	30B
Beans, Castor, Meal	35-40	B6-35W	L-S-B	1	.8	30A
Beans, Castor, Whole Shelled	36	C1/2-15W	L-S-B	1	.5	45
Beans, Navy, Dry	48	C1/2-15	L-S-B	1	.5	45
Beans, Navy, Steeped	60	C1/2-25	L-S-B	1	.8	45
Bentonite, Crude	34-40	D3-45X	H	2	1.2	30A

Table 1-2 Material Characteristics (Cont'd)



Material	Weight lbs. per cu. ft	Intermediate Material Code	Bearing Selection	Component Series	Material Factor Fm	Trough Loading
Bentonite, -100 Mesh	50-60	A100-25MXY	H	2	0.7	45
Benzene Hexachloride	56	A100-45R	L-S-B	1	0.6	30A
Bicarbonate of Soda (Baking Soda)	—	—	S	1	0.6	—
Blood, Dried	35-45	D3-45U	H	2	2	30A
Blood, Ground, Dried	30	A100-35U	L-S	1	1	30A
Bone Ash (Tricalcium Phosphate)	40-50	A100-45	L-S	1	1.6	30A
Boneblack	20-25	A100-25Y	L-S	1	1.5	45
Bonechar	27-40	B6-35	L-S	1	1.6	30A
Bonemeal	50-60	B6-35	H	2	1.7	30A
Bones, Whole*	35-50	E-45V	H	2	3	30A
Bones, Crushed	35-50	D3-45	H	2	2	30A
Bones, Ground	50	B6-35	H	2	1.7	30A
Borate of Lime	60	A100-35	L-S-B	1	0.6	30A
Borax, Fine	45-55	B6-25T	H	3	0.7	30B
Borax Screening — 1/2"	55-60	C1/2-35	H	2	1.5	30A
Borax, 1 1/2" - 2" Lump	55-60	D3-35	H	2	1.8	30A
Borax, 2" - 3" Lump	60-70	D3-35	H	2	2	30A
Boric Acid, Fine	55	B6-25T	H	3	0.8	30A
Boron	75	A100-37	H	2	1	30B
Bran, Rice — Rye — Wheat	16-20	B6-35NY	L-S-B	1	0.5	30A
Braunite (Manganese Oxide)	120	A100-36	H	2	2	30B
Bread Crumbs	20-25	B6-35PQ	L-S-B	1	0.6	30A
Brewer's Grain, Spent, Dry	14-30	C1/2-45	L-S-B	1	0.5	30A
Brewer's Grain, Spent, Wet	55-60	C1/2-45T	L-S	2	0.8	30A
Brick, Ground — 1/8"	100-120	B6-37	H	3	2.2	15
Bronze Chips	30-50	B6-45	H	2	2	30A
Buckwheat	37-42	B6-25N	L-S-B	1	0.4	45
Calcine, Flour	75-85	A100-35	L-S-B	1	0.7	30A
Calcium Carbide	70-90	D3-25N	H	2	2	30A
Calcium Carbonate (See Limestone)	—	—	—	—	—	—
Calcium Fluoride (See Fluorspar)	—	—	—	—	—	—
Calcium Hydrate (See Lime, Hydrated)	—	—	—	—	—	—
Calcium Hydroxide (See Lime, Hydrated)	—	—	—	—	—	—
Calcium Lactate	26-29	D3-45QTR	L-S	2	0.6	30A
Calcium Oxide (See Lime, Unslaked)	—	—	—	—	—	—
Calcium Phosphate	40-50	A100-45	L-S-B	1	1.6	30A
Calcium Sulfate (See Gypsum)	—	—	—	—	—	—
Carbon, Activated, Dry Fine*	—	—	—	—	—	—
Carbon Black, Pelleted*	—	—	—	—	—	—
Carbon Black, Powder*	—	—	—	—	—	—
Carborundum	100	D3-27	H	3	3	15
Casein	36	B6-35	H	2	1.6	30A
Cashew Nuts	32-37	C1/2-45	H	2	0.7	30A
Cast Iron, Chips	130-200	C1/2-45	H	2	4	30A
Caustic Soda	88	B6-35RSU	H	3	1.8	30A
Caustic Soda, Flakes	47	C1/2-45RSUX	L-S	3	1.5	30A
Celite (See Diatomaceous Earth)	—	—	—	—	—	—
Cement, Clinker	75-95	D3-36	H	3	1.8	30B
Cement, Mortar	133	B6-35Q	H	3	3	30A
Cement, Portland	94	A100-26M	H	2	1.4	30B
Cement, Aerated (Portland)	60-75	A100-16M	H	2	1.4	30B
Cerrusite (See Lead Carbonate)	—	—	—	—	—	—
Chalk, Crushed	75-95	D3-25	H	2	1.9	30A
Chalk, Pulverized	67-75	A100-25MXY	H	2	1.4	45
Charcoal, Ground	18-28	A100-45	H	2	1.2	30A
Charcoal, Lumps	18-28	D3-45Q	H	2	1.4	30A

*Consult Factory

Material	Weight lbs. per cu. ft	Intermediate Material Code	Bearing Selection	Component Series	Material Factor Fm	Trough Loading
Chocolate, Cake Pressed	40-45	D3-25	S	2	1.5	30A
Chrome Ore	125-140	D3-36	H	3	2.5	30B
Cinders, Blast Furnace	57	D3-36T	H	3	1.9	30B
Cinders, Coal	40	D3-36T	H	3	1.8	30B
Clay (See Bentonite, Diatomaceous Earth, Fuller's Earth, Kaolin & Marl)	—	—	—	—	—	—
Clay, Ceramic, Dry, Fines	60-80	A100-35P	L-S-B	1	1.5	30A
Clay, Calcined	80-100	B6-36	H	3	2.4	30B
Clay, Brick, Dry, Fines	100-120	C1/2-36	H	3	2.0	30B
Clay, Dry, Lumpy	60-75	D3-35	H	2	1.8	30A
Clinker, Cement (See Cement Clinker)	—	—	—	—	—	—
Clover Seed	45-48	B6-25N	L-S-B	1	.4	45
Coal, Anthracite (River & Culm)	55-61	B6-35TY	L-S	2	1.0	30A
Coal, Anthracite, Sized-1/2"	49-61	C1/2-25	L-S	2	1.0	45
Coal, Bituminous, Mined	40-60	D3-35LNXY	L-S	1	.9	30A
Coal, Bituminous, Mined, Sized	45-50	D3-35QV	L-S	1	1.0	30A
Coal, Bituminous, Mined, Slack	43-50	C1/2-45T	L-S	2	.9	30A
Coal, Lignite	37-45	D3-35T	H	2	1.0	30A
Cocoa Beans	30-45	C1/2-25Q	L-S	1	.5	45
Cocoa, Nibs	35	C1/2-25	H	2	.5	45
Cocoa, Powdered	30-35	A100-45XY	S	1	.9	30A
Cocconut, Shredded	20-22	E-45	S	2	1.5	30A
Coffee, Chaff	20	B6-25MY	L-S	1	1.0	45
Coffee, Green Bean	25-32	C1/2-25PQ	L-S	1	.5	45
Coffee, Ground, Dry	25	A40-35P	L-S	1	.6	30A
Coffee, Ground, Wet	35-45	A40-45X	L-S	1	.6	30A
Coffee, Roasted Bean	20-30	C1/2-25PQ	S	1	.4	45
Coffee, Soluble	19	A40-35PUY	S	1	.4	45
Coke, Breeze	25-35	C1/2-37	H	3	1.2	15
Coke, Loose	23-35	D7-37	H	3	1.2	15
Coke, Petrol, Calcined	35-45	D7-37	H	3	1.3	15
Compost	30-50	D7-45TV	L-S	3	1.0	30A
Concrete, Pre-Mix Dry	85-120	C1/2-36U	H	3	3.0	30B
Copper Ore	120-150	DX-36	H	3	4.0	30B
Copper Ore, Crushed	100-150	D3-36	H	3	4.0	30B
Copper Sulphate, (Bluestone)	75-95	C1/2-35S	L-S	2	1.0	30A
Copperas (See Ferrous Sulphate)	—	—	—	—	—	—
Copra, Cake Ground	40-45	B6-45HW	L-S-B	1	.7	30A
Copra, Cake, Lumpy	25-30	D3-35HW	L-S-B	2	.8	30A
Copra, Lumpy	22	E-35HW	L-S-B	2	1.0	30A
Copra, Meal	40-45	B6-35HW	H	2	.7	30A
Cork, Fine Ground	5-15	B6-35JNY	L-S-B	1	.5	30A
Cork, Granulated	12-15	C1/2-35JY	L-S-B	1	.5	30A
Corn, Cracked	40-50	B6-25P	L-S-B	1	.7	45
Corn Cobs, Ground	17	C1/2-25Y	L-S-B	1	.6	45
Corn Cobs, Whole*	12-15	E-35	L-S	2		30A
Corn Ear*	56	E-35	L-S	2		30A
Corn Germ	21	B6-35PY	L-S-B	1	.4	30A
Corn Grits	40-45	B6-35P	L-S-B	1	.5	30A
Cornmeal	32-40	B6-35P	L-S	1	.5	30A
Corn Oil, Cake	25	D7-45HW	L-S	1	.6	30A
Corn Seed	45	C1/2-25PQ	L-S-B	1	.4	45
Corn Shelled	45	C1/2-25	L-S-B	1	.4	45
Corn Sugar	30-35	B6-35PU	S	1	1.0	30A
Cottonseed, Cake, Crushed	40-45	C1/2-45HW	L-S	1	1.0	30A
Cottonseed, Cake, Lumpy	40-45	D7-45HW	L-S	2	1.0	30A

Table 1-2

Material Characteristics (Cont'd)



Material	Weight lbs. per cu. ft	Intermediate Material Code	Bearing Selection	Component Series	Material Factor Fm	Trough Loading
Cottonseed, Dry, Delinted	22-40	C1/2-25X	L-S	1	.6	45
Cottonseed, Dry, Not Delinted	18-25	C1/2-45XY	L-S	1	.9	30A
Cottonseed, Flakes	20-25	C1/2-35HWY	L-S	1	.8	30A
Cottonseed, Hulls	12	B6-35Y	L-S	1	.9	30A
Cottonseed, Meal, Expeller	25-30	B6-45HW	L-S	3	.5	30A
Cottonseed, Meal, Extracted	35-40	B6-45HW	L-S	1	.5	30A
Cottonseed, Meats, Dry	40	B6-35HW	L-S	1	.6	30A
Cottonseed, Meats, Rolled	35-40	C1/2-45HW	L-S	1	.6	30A
Cracklings, Crushed	40-50	D3-45HW	L-S-B	2	1.3	30A
Cryolite, Dust	75-90	A100-36L	H	2	2.0	30B
Cryolite, Lumpy	90-110	D16-36	H	2	2.1	30B
Cullet, Fine	80-120	C1/2-37	H	3	2.0	15
Cullet, Lump	80-120	D16-37	H	3	2.5	15
Culm, (See Coal, Anthracite)	—	—	—	—	—	—
Cupric Sulphate (Copper Sulfate)	—	—	—	—	—	—
Detergent (See Soap Detergent)	—	—	—	—	—	—
Diatomaceous Earth	11-17	A40-36Y	H	3	1.6	30B
Dicalcium Phosphate	40-50	A40-35	L-S-B	1	1.6	30A
Disodium Phosphate	25-31	A40-35	H	3	.5	30A
Distiller's Grain, Spent Dry	30	B6-35	H	2	.5	30A
Distiller's Grain, Spent Wet	40-60	C1/2-45V	L-S	3	.8	30A
Dolomite, Crushed	80-100	C1/2-36	H	2	2.0	30B
Dolomite, Lumpy	90-100	DX-36	H	2	2.0	30B
Earth, Loam, Dry, Loose	76	C1/2-36	H	2	1.2	30B
Ebonite, Crushed	63-70	C1/2-35	L-S-B	1	.8	30A
Egg Powder	16	A40-35MPY	S	1	1.0	30A
Epsom Salts (Magnesium Sulfate)	40-50	A40-35U	L-S-B	1	.8	30A
Feldspar, Ground	65-80	A100-37	H	2	2.0	15
Feldspar, Lumps	90-100	D7-37	H	2	2.0	15
Feldspar, Powder	100	A200-36	H	2	2.0	30B
Feldspar, Screenings	75-80	C1/2-37	H	2	2.0	15
Ferrous Sulfide — 1/2"	120-135	C1/2-26	H	2	2.0	30B
Ferrous Sulfide — 100M	105-120	A100-36	H	2	2.0	30B
Ferrous Sulphate	50-75	C1/2-35U	H	2	1.0	30A
Fish Meal	35-40	C1/2-45HP	L-S-B	1	1.0	30A
Fish Scrap	40-50	D7-45H	L-S-B	2	1.5	30A
Flaxseed	43-45	B6-35X	L-S-B	1	.4	30A
Flaxseed Cake (Linseed Cake)	48-50	D7-45W	L-S	2	.7	30A
Flaxseed Meal (Linseed Meal)	25-45	B6-45W	L-S	1	.4	30A
Flour Wheat	33-40	A40-45LP	S	1	.6	30A
Flue Dust, Basic Oxygen Furnace	45-60	A40-36LM	H	3	3.5	30B
Flue Dust, Blast Furnace	110-125	A40-36	H	3	3.5	30B
Flue Dust, Boiler H. Dry	30-45	A40-36LM	H	3	2.0	30B
Fluorspar, Fine (Calcium Fluoride)	80-100	B6-36	H	2	2.0	30B
Fluorspar, Lumps	90-110	D7-36	H	2	2.0	30B
Fly Ash	30-45	A40-36M	H	3	2.0	30B
Foundry Sand, Dry (See Sand)	—	—	—	—	—	—
Fuller's Earth, Dry, Raw	30-40	A40-25	H	2	2.0	15
Fuller's Earth, Oily, Spent	60-65	C1/2-450W	H	3	2.0	30A
Fuller's Earth, Calcined	40	A100-25	H	3	2.0	15
Galena (See Lead Sulfide)	—	—	—	—	—	—
Gelatine, Granulated	32	B6-35PU	S	1	.8	30A
Gilsonite	37	C1/2-35	H	3	1.5	30A
Glass, Batch	80-100	C1/2-37	H	3	2.5	15
Glue, Ground	40	B6-45U	H	2	1.7	30A
Glue, Pearl	40	C1/2-35U	L-S-B	1	.5	30A

Material	Weight lbs. per cu. ft	Intermediate Material Code	Bearing Selection	Component Series	Material Factor Fm	Trough Loading
Glue, Veg. Powdered	40	A40-45U	L-S-B	1	.6	30A
Gluten, Meal	40	B6-35P	L-S	1	.6	30A
Granite, Fine	80-90	C1/2-27	H	3	2.5	15
Grape Pomace	15-20	D3-45U	H	2	1.4	30A
Graphite Flake	40	B6-25LP	L-S-B	1	.5	45
Graphite Flour	28	A100-35LMP	L-S-B	1	.5	30A
Graphite Ore	65-75	DX-35L	H	2	1.0	30A
Guano Dry*	70	C1/2-35	L-S	3	2.0	30A
Gypsum, Calcined	55-60	B6-35U	H	2	1.6	30A
Gypsum, Calcined, Powdered	60-80	A100-35U	H	2	2.0	30A
Gypsum, Raw — 1"	70-80	D3-25	H	2	2.0	30A
Hay, Chopped*	8-12	C1/2-35JY	L-S	2	1.6	30A
Hexanedioic Acid (See Adipic Acid)	—	—	—	—	—	—
Hominy, Dry	35-50	C1/2-25	L-S-B	1	.4	45
Hops, Spent, Dry	35	D3-35	L-S-B	2	1.0	30A
Hops, Spent, Wet	50-55	D3-45V	L-S	2	1.5	30A
Ice, Crushed	35-45	D3-35Q	L-S	2	.4	30A
Ice, Flaked*	40-45	C1/2-35Q	S	1	.6	30A
Ice, Cubes	33-35	D3-35Q	S	1	.4	30A
Ice, Shell	33-35	D3-45Q	S	1	.4	30A
Ilmenite Ore	140-160	D3-37	H	3	2.0	15
Iron Ore Concentrate	120-180	A40-37	H	3	2.2	15
Iron Oxide Pigment	25	A100-36LMP	H	2	1.0	30B
Iron Oxide, Millscale	75	C1/2-36	H	2	1.6	30B
Iron Pyrites (See Ferrous Sulfide)	—	—	—	—	—	—
Iron Sulphate (See Ferrous Sulfate)	—	—	—	—	—	—
Iron Sulfide (See Ferrous Sulfide)	—	—	—	—	—	—
Iron Vitriol (See Ferrous Sulfate)	—	—	—	—	—	—
Kafir (Corn)	40-45	C1/2-25	H	3	.5	45
Kaolin Clay	63	D3-25	H	2	2.0	30A
Kaolin Clay-Talc	32-56	A40-35LMP	H	2	2.0	30A
Kryalith (See Cryolite)	—	—	—	—	—	—
Lactose	32	A40-35PU	S	1	.6	30A
Lamp Black (See Carbon Black)	—	—	—	—	—	—
Lead Arsenate	72	A40-35R	L-S-B	1	1.4	30A
Lead Arsenite	72	A40-35R	L-S-B	1	1.4	30A
Lead Carbonate	240-260	A40-35R	H	2	1.0	30A
Lead Ore — 1/8"	200-270	B6-35	H	3	1.4	30A
Lead Ore — 1/2"	180-230	C1/2-36	H	3	1.4	30B
Lead Oxide (Red Lead) — 100 Mesh	30-150	A100-35P	H	2	1.2	30A
Lead Oxide (Red Lead) — 200 Mesh	30-180	A200-35LP	H	2	1.2	30A
Lead Sulphide — 100 Mesh	240-260	A100-35R	H	2	1.0	30A
Lignite (See Coal Lignite)	—	—	—	—	—	—
Limanite, Ore, Brown	120	C1/2-47	H	3	1.7	15
Lime, Ground, Unslaked	60-65	B6-35U	L-S-B	1	.6	30A
Lime Hydrated	40	B6-35LM	H	2	.8	30A
Lime, Hydrated, Pulverized	32-40	A40-35LM	L-S	1	.6	30A
Lime, Pebble	53-56	C1/2-25HU	L-S	2	2.0	45
Limestone, Agricultural	68	B6-35	H	2	2.0	30A
Limestone, Crushed	85-90	DX-36	H	2	2.0	30B
Limestone, Dust	55-95	A40-46MY	H	2	1.6-2.0	30B
Lindane (Benzene Hexachloride)	—	—	—	—	—	—
Linseed (See Flaxseed)	—	—	—	—	—	—
Litharge (Lead Oxide)	—	—	—	—	—	—
Lithopone	45-50	A325-35MR	L-S	1	1.0	30A
Maize (See Milo)	—	—	—	—	—	—

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Table 1-2 Material Characteristics (Cont'd)



Material	Weight lbs. per cu. ft	Intermediate Material Code	Bearing Selection	Component Series	Material Factor Fm	Trough Loading
Malt, Dry, Ground	20-30	B6-35NP	L-S-B	1	.5	30A
Malt, Meal	36-40	B6-25P	L-S-B	1	.4	45
Malt, Dry Whole	20-30	C1/2-35N	L-S-B	1	.5	30A
Malt, Sprouts	13-15	C1/2-35P	L-S-B	1	.4	30A
Magnesium Chloride (Magnesite)	33	C1/2-45	L-S	1	1.0	30A
Manganese Dioxide*	70-85	A100-35NRT	L-S	2	1.5	30A
Manganese Ore	125-140	DX-37	H	3	2.0	15
Manganese Oxide	120	A100-36	H	2	2.0	30B
Manganese Sulfate	70	C1/2-37	H	3	2.4	15
Marble, Crushed	80-95	B6-37	H	3	2.0	15
Marl, (Clay)	80	DX-36	H	2	1.6	30B
Meat, Ground	50-55	E-45HQT	L-S	2	1.5	30A
Meat, Scrap (w/bone)	40	E-46H	H	2	1.5	30B
Mica, Flakes	17-22	B6-16MY	H	2	1.0	30B
Mica, Ground	13-15	B6-36	H	2	.9	30B
Mica, Pulverized	13-15	A100-36M	H	2	1.0	30B
Milk, Dried, Flake	5-6	B6-35PUY	S	1	.4	30A
Milk, Malted	27-30	A40-45PX	S	1	.9	30A
Milk, Powdered	20-45	B6-25PM	S	1	.5	45
Milk Sugar	32	A100-35PX	S	1	.6	30A
Milk, Whole, Powdered	20-36	B6-35PUX	S	1	.5	30A
Mill Scale (Steel)	120-125	E-46T	H	3	3.0	30B
Milo, Ground	32-36	B6-25	L-S-B	1	.5	45
Milo Maize (Kafir)	40-45	B6-15N	L-S-B	1	.4	45
Molybdenite Powder	107	B6-26	H	2	1.5	30B
Monosodium Phosphate	50	B6-36	H	2	.6	30B
Mortar, Wet*	150	E-46T	H	3	3.0	30B
Mustard Seed	45	B6-15N	L-S-B	1	.4	45
Naphthalene Flakes	45	B6-35	L-S-B	1	.7	30A
Niacin (Nicotinic Acid)	35	A40-35P	H	2	2.5	30A
Oats	26	C1/2-25MN	L-S-B	1	.4	45
Oats, Crimped	19-26	C1/2-35	L-S-B	1	.5	30A
Oats, Crushed	22	B6-45NY	L-S-B	1	.6	30A
Oats, Flour	35	A100-35	L-S-B	1	.5	30A
Oat Hulls	8-12	B6-35NY	L-S-B	1	.5	30A
Oats, Rolled	19-24	C1/2-35NY	L-S-B	1	.6	30A
Oleo Margarine (Margarine)	59	E-45HKPW	L-S	2	.4	30A
Orange Peel, Dry	15	E-45	L-S	2	1.5	30A
Oxalic Acid Crystals — Ethane Diacid Crystals	60	B6-35QS	L-S	1	1.0	30A
Oyster Shells, Ground	50-60	C1/2-36T	H	3	1.6-2.0	30B
Oyster Shells, Whole	80	D3-36TV	H	3	2.1-2.5	30B
Paper Pulp (4% or less)	62	E-45	L-S	2	1.5	30A
Paper Pulp (6% to 15%)	60-62	E-45	L-S	2	1.5	30A
Paraffin Cake — 1/2"	45	C1/2-45K	L-S	1	.6	30A
Peanuts, Clean, in shell	15-20	D3-35Q	L-S	2	.6	30A
Peanut Meal	30	B6-35P	S	1	.6	30A
Peanuts, Raw, Uncleaned (unshelled)	15-20	D3-36Q	H	3	.7	30B
Peanuts, Shelled	35-45	C1/2-35Q	S	1	.4	30A
Peas, Dried	45-50	C1/2-15NQ	L-S-B	1	.5	45
Perlite — Expanded	8-12	C1/2-36	H	2	.6	30B
Phosphate Acid Fertilizer	60	B6-25T	L-S	2	1.4	45
Phosphate Disodium (See Sodium Phosphate)	—	—	—	—	—	—
Phosphate Rock, Broken	75-85	DX-36	H	2	2.1	30B
Phosphate Rock, Pulverized	60	B6-36	H	2	1.7	30B
Phosphate Sand	90-100	B6-37	H	3	2.0	15
Plaster of Paris (See Gypsum)	—	—	—	—	—	—

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Material	Weight lbs. per cu. ft	Intermediate Material Code	Bearing Selection	Component Series	Material Factor Fm	Trough Loading
Plumbago (See Graphite)	—	—	—	—	—	—
Polystyrene Beads	40	B6-35PQ	S	1	.4	30A
Polyvinyl, Chloride Powder	20-30	A100-45KT	S	2	1.0	30A
Polyvinyl, Chloride Pellets	20-30	E-45KPQT	S	1	.6	30A
Polyethylene, Resin Pellets	30-35	C1/2-45Q	L-S	1	.4	30A
Potash (Muriate) Dry	70	B6-37	H	3	2.0	15
Potash (Muriate) Mine Run	75	DX-37	H	3	2.2	15
Potassium Carbonate	51	B6-36	H	2	1.0	30B
Potassium Chloride Pellets	120-130	C1/2-25TU	H	3	1.6	45
Potassium Nitrate — 1/2"	76	C1/2-16NT	H	3	1.2	30B
Potassium Nitrate — 1/8"	80	B6-26NT	H	3	1.2	30B
Potassium Sulfate	42-48	B6-46X	H	2	1.0	30B
Potato Flour	48	A200-35MNP	L-S	1	.5	30A
Pumice — 1/8"	42-48	B6-46	H	3	1.6	30B
Pyrite, Pellets	120-130	C1/2-26	H	3	2.0	30B
Quartz — 100 Mesh	70-80	A100-27	H	3	1.7	15
Quartz — 1/2"	80-90	C1/2-27	H	3	2.0	15
Rice, Bran	20	B6-35NY	L-S-B	1	.4	30A
Rice, Grits	42-45	B6-35P	L-S-B	1	.4	30A
Rice, Polished	30	C1/2-15P	L-S-B	1	.4	45
Rice, Hulled	45-49	C1/2-25P	L-S-B	1	.4	45
Rice, Hulls	20-21	B6-35NY	L-S-B	1	.4	30A
Rice, Rough	32-36	C1/2-35N	L-S-B	1	.6	30A
Rosin — 1/2"	65-68	C1/2-45Q	L-S-B	1	1.5	30A
Rubber, Reclaimed Ground	23-50	C1/2-45	L-S-B	1	.8	30A
Rubber, Pelleted	50-55	D3-45	L-S-B	2	1.5	30A
Rye	42-48	B6-15N	L-S-B	1	.4	45
Rye Bran	15-20	B6-35Y	L-S-B	1	.4	45
Rye Feed	33	B6-35N	L-S-B	1	.5	30A
Rye Meal	35-40	B6-35	L-S-B	1	.5	30A
Rye Middlings	42	B6-35	L-S	1	.5	30A
Rye, Shorts	32-33	C1/2-35	L-S	2	.5	30A
Safflower, Cake	50	D3-26	H	2	.6	30B
Safflower, Meal	50	B6-35	L-S-B	1	.6	30A
Safflower Seed	45	B6-15N	L-S-B	1	.4	45
Saffron (See Safflower)	—	—	—	—	—	—
Sal Ammoniac (Ammonium Chloride)	—	—	—	—	—	—
Salt Cake, Dry Coarse	85	B6-36TU	H	3	2.1	30B
Salt Cake, Dry Pulverized	65-85	B6-36TU	H	3	1.7	30B
Salicylic Acid	29	B6-37U	H	3	.6	15
Salt, Dry Coarse	45-60	C1/2-36TU	H	3	1.0	30B
Salt, Dry Fine	70-80	B6-36TU	H	3	1.7	30B
Saltpeter — (See Potassium Nitrate)	—	—	—	—	—	—
Sand Dry Bank (Damp)	110-130	B6-47	H	3	2.8	15
Sand Dry Bank (Dry)	90-110	B6-37	H	3	1.7	15
Sand Dry Silica	90-100	B6-27	H	3	2.0	15
Sand Foundry (Shake Out)	90-100	D3-37Z	H	3	2.6	15
Sand (Resin Coated) Silica	104	B6-27	H	3	2.0	15
Sand (Resin Coated) Zircon	115	A100-27	H	3	2.3	15
Sawdust, Dry	10-13	B6-45UX	L-S-B	1	1.4	15
Sea — Coal	65	B6-36	H	2	1.0	30B
Sesame Seed	27-41	B6-26	H	2	.6	30B
Shale, Crushed	85-90	C1/2-36	H	2	2.0	30B
Shellac, Powdered or Granulated	31	B6-35P	S	1	.6	30A
Silicon Dioxide (See Quartz)	—	—	—	—	—	—
Silica, Flour	80	A40-46	H	2	1.5	30B

Table 1-2

Material Characteristics (Cont'd)



Material	Weight lbs. per cu. ft	Intermediate Material Code	Bearing Selection	Component Series	Material Factor Fm	Trough Loading
Silica Gel + 1/2" - 3"	45	D3-37HKQU	H	3	2.0	15
Slag, Blast Furnace Crushed	130-180	D3-37Y	H	3	2.4	15
Slag, Furnace Granular, Dry	60-65	C1/2-37	H	3	2.2	15
Slate, Crushed, — 1/2"	80-90	C1/2-36	H	2	2.0	30B
Slate, Ground, — 1/8"	82-85	B6-36	H	2	1.6	30B
Sludge, Sewage, Dried	40-50	E-47TW	H	3	.8	15
Sludge, Sewage, Dry Ground	45-55	B-46S	H	2	.8	30B
Soap, Beads or Granules	15-35	B6-35Q	L-S-B	1	.6	30A
Soap, Chips	15-25	C1/2-35Q	L-S-B	1	.6	30A
Soap Detergent	15-50	B6-35FQ	L-S-B	1	.8	30A
Soap, Flakes	5-15	B6-35QXY	L-S-B	1	.6	30A
Soap, Powder	20-25	B6-25X	L-S-B	1	.9	45
Soapstone, Talc, Fine	40-50	A200-45XY	L-S-B	1	2.0	30A
Soda Ash, Heavy	55-65	B6-36	H	2	2.0	30B
Soda Ash, Light	20-35	A40-36Y	H	2	1.6	30B
Sodium Aluminate, Ground	72	B6-36	H	2	1.0	30B
Sodium Aluminum Fluoride (See Kryolite)	—	—	—	—	—	—
Sodium Aluminum Sulphate*	75	A100-36	H	2	1.0	30B
Sodium Bentonite (See Bentonite)	—	—	—	—	—	—
Sodium Bicarbonate (See Baking Soda)	—	—	—	—	—	—
Sodium Chloride (See Salt)	—	—	—	—	—	—
Sodium Carbonate (See Soda Ash)	—	—	—	—	—	—
Sodium Hydrate (See Caustic Soda)	—	—	—	—	—	—
Sodium Hydroxide (See Caustic Soda)	—	—	—	—	—	—
Sodium Borate (See Borax)	—	—	—	—	—	—
Sodium Nitrate	70-80	D3-25NS	L-S	2	1.2	30A
Sodium Phosphate	50-60	A-35	L-S	1	.9	30A
Sodium Sulfate (See Salt Cake)	—	—	—	—	—	—
Sodium Sulfite	96	B6-46X	H	2	1.5	30B
Sorghum, Seed (See Kafir or Milo)	—	—	—	—	—	—
Soybean, Cake	40-43	D3-35W	L-S-B	2	1.0	30A
Soybean, Cracked	30-40	C1/2-36NW	H	2	.5	30B
Soybean, Flake, Raw	18-25	C1/2-35Y	L-S-B	1	.8	30A
Soybean, Flour	27-30	A40-35MN	L-S-B	1	.8	30A
Soybean Meal, Cold	40	B6-35	L-S-B	1	.5	30A
Soybean Meal Hot	40	B6-35T	L-S	2	.5	30A
Soybeans, Whole	45-50	C1/2-26NW	H	2	1.0	30B
Starch	25-50	A40-15M	L-S-B	1	1.0	45
Steel Turnings, Crushed	100-150	D3-46WV	H	3	3.0	30B
Sugar Beet, Pulp, Dry	12-15	C1/2-26	H	2	.9	30B
Sugar Beet, Pulp, Wet	25-45	C1/2-35X	L-S-B	1	1.2	30A
Sugar, Refined, Granulated Dry	50-55	B6-35PU	S	1	1.0-1.2	30A
Sugar, Refined, Granulated Wet	55-65	C1/2-35X	S	1	1.4-2.0	30A
Sugar, Powdered	50-60	A100-35PX	S	1	.8	30A
Sugar, Raw	55-65	B6-35PX	S	1	1.5	30A
Sulphur, Crushed — 1/2"	50-60	C1/2-35N	L-S	1	.8	30A
Sulphur, Lumpy, — 3"	80-85	D3-35N	L-S	2	.8	30A
Sulphur, Powdered	50-60	A40-35MN	L-S	1	.6	30A
Sunflower Seed	19-38	C1/2-15	L-S-B	1	.5	45
Talcum, — 1/2"	80-90	C1/2-36	H	2	.9	30B
Talcum Powder	50-60	A200-36M	H	2	.8	30B
Tanbark, Ground*	55	B6-45	L-S-B	1	.7	30A
Timothy Seed	36	B6-35NY	L-S-B	1	.6	30A
Titanium Dioxide (See Ilmenite Ore)	—	—	—	—	—	—
Tobacco, Scraps	15-25	D3-45Y	L-S	2	.8	30A
Tobacco, Snuff	30	B6-45MQ	L-S-B	1	.9	30A

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Table 1-2 Material Characteristics (Cont'd)

Material	Weight lbs. per cu. ft	Intermediate Material Code	Bearing Selection	Component Series	Material Factor Fm	Trough Loading
Tricalcium Phosphate	40-50	A40-45	L-S	1	1.6	30A
Triple Super Phosphate	50-55	B6-36RS	H	3	2.0	30B
Trisodium Phosphate	60	C1/2-36	H	2	1.7	30B
Trisodium Phosphate Granular	60	B6-36	H	2	1.7	30B
Trisodium Phosphate, Pulverized	50	A40-36	H	2	1.6	30B
Tung Nut Meats, Crushed	28	D3-25W	L-S	2	.8	30A
Tung Nuts	25-30	D3-15	L-S	2	.7	30A
Urea Prills, Coated	43-46	B6-25	L-S-B	1	1.2	45
Vermiculite, Expanded	16	C1/2-35Y	L-S	1	.5	30A
Vermiculite, Ore	80	D3-36	H	2	1.0	30B
Vetch	48	B6-16N	L-S-B	1	.4	30B
Walnut Shells, Crushed	35-45	B6-36	H	2	1.0	30B
Wheat	45-48	C1/2-25N	L-S-B	1	.4	45
Wheat, Cracked	40-45	B6-25N	L-S-B	1	.4	45
Wheat, Germ	18-28	B6-25	L-S-B	1	.4	45
White Lead, Dry	75-100	A40-36MR	H	2	1.0	30B
Wood Chips, Screened	10-30	D3-45VY	L-S	2	.6	30A
Wood Flour	16-36	B6-35N	L-S	1	.4	30A
Wood Shavings	8-16	E-45VY	L-S	2	1.5	30A
Zinc, Concentrate Residue	75-80	B6-37	H	3	1.0	15
Zinc Oxide, Heavy	30-35	A100-45X	L-S	1	1.0	30A
Zinc Oxide, Light	10-15	A100-45XY	L-S	1	1.0	30A

*Consult Factory

Selection of Conveyor Size and Speed



In order to determine the size and speed of a screw conveyor, it is necessary first to establish the material code number. It will be seen from what follows that this code number controls the cross-sectional loading that should be used. The various cross-sectional loadings shown in the Capacity Table (Table 1-6) are for use with the standard screw conveyor components indicated in the Component Group Selection Guide on page H-21 and are for use where the conveying operation is controlled with volumetric feeders and where the material is uniformly fed into the conveyor housing and discharged from it. Check lump size limitations before choosing conveyor diameter. See Table 1-7 on page H-18.

Capacity Table

The capacity table, (Table 1-6), gives the capacities in cubic feet per hour at one revolution per minute for various size screw conveyors for four cross-sectional loadings. Also shown are capacities in cubic feet per hour at the maximum recommended revolutions per minute.

The capacity values given in the table will be found satisfactory for most applications. Where the capacity of a screw conveyor is very critical, especially when handling a material not listed in Table 1-2, it is best to consult our Engineering Department.

The maximum capacity of any size screw conveyor for a wide range of materials, and various conditions of loading, may be obtained from Table 1-6 by noting the values of cubic feet per hour at maximum recommended speed.

Conveyor Speed

For screw conveyors with screws having standard pitch helical flights the conveyor speed may be calculated by the formula:

$$N = \frac{\text{Required capacity, cubic feet per hour}}{\text{Cubic feet per hour at 1 revolution per minute}}$$

$$N = \text{Revolutions per minute of screw} \\ \text{(but not greater than the maximum recommended speed.)}$$

For the calculation of conveyor speeds where special types of screws are used, such as short pitch screws, cut flights, cut and folded flights and ribbon flights, an equivalent required capacity must be used, based on factors in the Tables 1-3, 4, 5.

Factor CF_1 relates to the pitch of the screw. Factor CF_2 relates to the type of the flight. Factor CF_3 relates to the use of mixing paddles within the flight pitches.

The equivalent capacity then is found by multiplying the required capacity by the capacity factors. See Tables 1-3, 4, 5 for capacity factors.

$$\left(\begin{array}{c} \text{Equiv. Capacity} \\ \text{Cubic Feet Per Hour} \end{array} \right) = \left(\begin{array}{c} \text{Required Capacity} \\ \text{Cubic Feet Per Hour} \end{array} \right) (CF_1) (CF_2) (CF_3)$$

Table 1-3

Special Conveyor Pitch Capacity Factor CF_1		
Pitch	Description	CF_1
Standard	Pitch = Diameter of Screw	1.00
Short	Pitch = 2/3 Diameter of Screw	1.50
Half	Pitch = 1/2 Diameter of Screw	2.00
Long	Pitch = 1 1/2 Diameter of Screw	0.67

Table 1-4

Special Conveyor Pitch Capacity Factor CF_2			
Type of Flight	Conveyor Loading		
	15%	30%	45%
Cut Flight	1.95	1.57	1.43
Cut & Folded Flight	N.R. *	3.75	2.54
Ribbon Flight	1.04	1.37	1.62

*Not recommended
 If none of the above flight modifications are used: $CF_2 = 1.0$

Table 1-5

Special Conveyor Pitch Capacity Factor CF_3					
Standard Paddles at 45° Reverse Pitch	Paddles Per Pitch				
	None	1	2	3	4
Factor CF_3	1.00	1.08	1.16	1.24	1.32

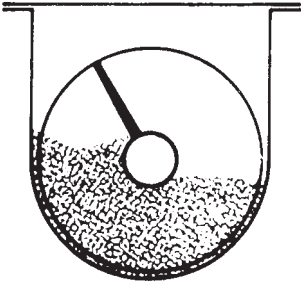
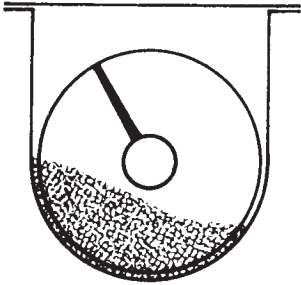
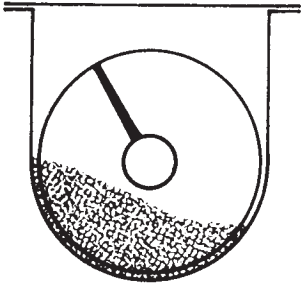
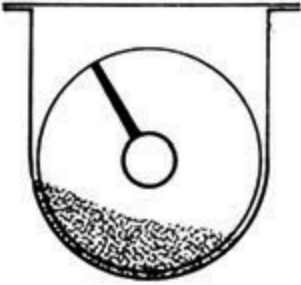
Capacity Table

Horizontal Screw Conveyors

(Consult Factory for Inclined Conveyors)



Table 1-6

Trough Loading	Screw Diameter Inch	Capacity Cubic Feet Per Hour (Full Pitch)		Max. RPM
		At One RPM	At Max. RPM	
45% 	4	0.62	114	184
	6	2.23	368	165
	9	8.20	1270	155
	10	11.40	1710	150
	12	19.40	2820	145
	14	31.20	4370	140
	16	46.70	6060	130
	18	67.60	8120	120
	20	93.70	10300	110
	24	164.00	16400	100
	30	323.00	29070	90
	36	553.20	4142	75
30% A 	4	0.41	53	130
	6	1.49	180	120
	9	5.45	545	100
	10	7.57	720	95
	12	12.90	1160	90
	14	20.80	1770	85
	16	31.20	2500	80
	18	45.00	3380	75
	20	62.80	4370	70
	24	109.00	7100	65
	30	216.00	12960	60
	36	368.80	18400	50
30% B 	4	0.41	29	72
	6	1.49	90	60
	9	5.45	300	55
	10	7.60	418	55
	12	12.90	645	50
	14	20.80	1040	50
	16	31.20	1400	45
	18	45.00	2025	45
	20	62.80	2500	40
	24	109.00	4360	40
	30	216.00	7560	35
	36	368.80	11064	30
15% 	4	0.21	15	72
	6	0.75	45	60
	9	2.72	150	55
	10	3.80	210	55
	12	6.40	325	50
	14	10.40	520	50
	16	15.60	700	45
	18	22.50	1010	45
	20	31.20	1250	40
	24	54.60	2180	40
	30	108.00	3780	35
	36	184.40	5537	30

The size of a screw conveyor not only depends on the capacity required, but also on the size and proportion of lumps in the material to be handled. The size of a lump is the maximum dimension it has. If a lump has one dimension much longer than its transverse cross-section, the long dimension or length would determine the lump size.

The character of the lump also is involved. Some materials have hard lumps that won't break up in transit through a screw conveyor. In that case, provision must be made to handle these lumps. Other materials may have lumps that are fairly hard, but degradable in transit through the screw conveyor, thus reducing the lump size to be handled. Still other materials have lumps that are easily broken in a screw conveyor and lumps of these materials impose no limitations.

Three classes of lump sizes are shown in TABLE 1-7 and as follows.

Class I

A mixture of lumps and fines in which not more than 10% are lumps ranging from maximum size to one half of the maximum; and 90% are lumps smaller than one half of the maximum size.

Class II

A mixture of lumps and fines in which not more than 25% are lumps ranging from the maximum size to one half of the maximum; and 75% are lumps smaller than one half of the maximum size.

Class III

A mixture of lumps only in which 95% or more are lumps ranging from maximum size to one half of the maximum size; and 5% or less are lumps less than one tenth of the maximum size.

Table 1-7

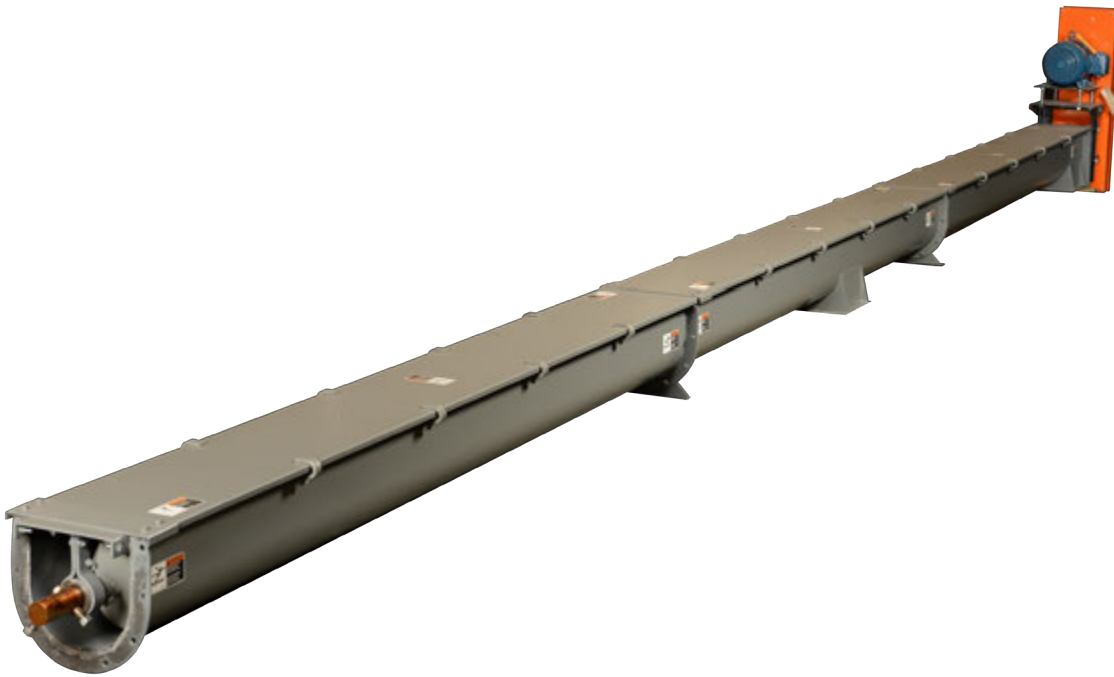
Maximum Lump Size Table (Inches)					
Screw Diameter	Pipe O.D.*	Radial Clearance △	Class I 10% Lumps Max. Lump	Class II 25% Lumps Max. Lump	Class III 95% Lumps Max. Lump
6	2 3/8	2 5/16	1 1/4	3/4	1/2
9	2 3/8	3 3/16	2 1/4	1 1/2	3/4
9	2 7/8	3 9/16	2 1/4	1 1/2	3/4
12	2 7/8	5 1/16	2 3/4	2	1
12	3 1/2	4 3/4	2 3/4	2	1
12	4	4 1/2	2 3/4	2	1
14	3 1/2	5 3/4	3 1/4	2 1/2	1 1/4
14	4	5 1/2	2 1/2	1 1/4	1 1/4
16	4	6 1/2	3 3/4	2 3/4	1 1/2
16	4 1/2	6 1/4	3 3/4	2 3/4	1 1/2
18	4	7 1/2	4 1/4	3	1 3/4
18	4 1/2	7 1/2	4 1/4	3	1 3/4
20	4	8 1/2	4 3/4	3 1/2	2
20	4 1/2	8 1/4	4 3/4	3 1/2	2
24	4 1/2	10 1/4	6	3 3/4	2 1/2
30	4 1/2	13 1/4	8	5	4
36	5 3/8	14 1/2	9 1/2	7 1/2	6

* For special pipe sizes, consult factory.

△ Radial clearance is the distance between the bottom of the trough and the bottom of the conveyor pipe.

EXAMPLE: Lump Size Limitations

To illustrate the selection of a conveyor size from the Maximum Lump Size Table, Table 1-7, consider crushed ice as the conveyed material. Refer to the material charts Table 1-2 and find crushed ice and its material code D3-35Q and weight of 35-45 lbs./C.F. D3 means that the lump size is 1/2" to 3", this is noted by referring to the material classification code chart on page H-5. From actual specifications regarding crushed ice it is known that crushed ice has a maximum lump size of 1 1/2" and only 25% of the lumps are 1 1/2". With this information refer to Table 1-7, Maximum Lump Size Table. Under the column Class II and 1 1/2" Max. lump size read across to the minimum screw diameter which will be 9".



Component Groups

To facilitate the selection of proper specifications for a screw conveyor for a particular duty, screw conveyors are broken down into three Component Groups. These groups relate both to the Material Classification Code and also to screw size, pipe size, type of bearings and trough thickness.

Referring to Table 1-2, find the component series designation of the material to be conveyed.

Having made the Component Series selection, refer to Tables 1-8, 9, 10 which give the specifications of the various sizes of conveyor screws. (The tabulated screw numbers in this table refer to standard specifications for screws found on pages H-77 – H-85 Component Section.) These standards give complete data on the screws such as the length of standard sections, minimum edge thickness of screw flight, bushing data, bolt size, bolt spacing, etc.

EXAMPLE: For a screw conveyor to handle brewers grain, spent wet, refer to the material characteristics Table 1-2. Note that the component series column refers to series 2. Refer now to page H-21, component selection, Table 1-9, component group 2. The standard shaft sizes, screw flight designations, trough gauges and cover gauges are listed for each screw diameter.

Table 1-8

Component Group 1					
Screw Diameter Inches	Coupling Diameter Inches	Screw Number		Thickness, U.S. Standard Gauge or Inches	
		Helicoid Flights	Sectional Flights	Trough	Cover
6	1 1/2	6H304	6S307	16Ga.	16Ga.
9	1 1/2	9H306	9S307	14Ga.	14Ga.
9	2	9H406	9S409	14Ga.	14Ga.
12	2	12H408	12S409	12Ga.	14Ga.
12	2 7/16	12H508	12S509	12Ga.	14Ga.
14	2 7/16	14H508	14S509	12Ga.	14Ga.
16	3	16H610	16S612	12Ga.	14Ga.
18	3	—	18S612	10Ga.	12Ga.
20	3	—	20S612	10Ga.	12Ga.
24	3 7/16	—	24S712	10Ga.	12Ga.
30	3 15/16	—	30S816	3/16"	10Ga.
36	4 7/16	—	36S916	1/4"	10Ga.

Table 1-9

Component Group 2					
Screw Diameter Inches	Coupling Diameter Inches	Screw Number		Thickness, U.S. Standard Gauge or Inches	
		Helicoid Flights	Sectional Flights	Trough	Cover
6	1 1/2	6H308	6S309	14Ga.	16Ga.
9	1 1/2	9H312	9S309	10Ga.	14Ga.
9	2	9H412	9S412	10Ga.	14Ga.
12	2	12H412	12S412	3/16"	14Ga.
12	2 7/16	12H512	12S512	3/16"	14Ga.
12	3	12H614	12S616	3/16"	14Ga.
14	2 7/16	—	14S512	3/16"	14Ga.
14	3	14H614	14S616	3/16"	14Ga.
16	3	16H614	16S616	3/16"	14Ga.
18	3	—	18S616	3/16"	12Ga.
20	3	—	20S616	3/16"	12Ga.
24	3 7/16	—	24S716	3/16"	12Ga.
30	3 15/16	—	30S824	1/4"	10Ga.
36	4 7/16	—	36S924	3/8"	3/16"

Table 1-10

Component Group 3					
Screw Diameter Inches	Coupling Diameter Inches	Screw Number		Thickness, U.S. Standard Gauge or Inches	
		Helicoid Flights	Sectional Flights	Trough	Cover
6	1 1/2	6H312	6S312	10Ga.	16Ga.
9	1 1/2	9H312	9S312	3/16"	14Ga.
9	2	9H414	9S416	3/16"	14Ga.
12	2	12H412	12S412	1/4"	14Ga.
12	2 7/16	12H512	12S512	1/4"	14Ga.
12	3	12H614	12S616	1/4"	14Ga.
14	3	—	14S624	1/4"	14Ga.
16	3	—	16S624	1/4"	14Ga.
18	3	—	18S624	1/4"	12Ga.
20	3	—	20S624	1/4"	12Ga.
24	3 7/16	—	24S724	1/4"	12Ga.
30	3 15/16	—	30S832	3/8"	10Ga.
36	4 7/16	—	36S932	3/8"	3/16"

Bearing Selection



The selection of bearing material for intermediate hangers is based on experience together with a knowledge of the characteristics of the material to be conveyed. By referring to the material characteristic tables, page H-7 thru H-15 the intermediate hanger bearing selection can be made by viewing the Bearing Selection column. The bearing selection will be made from one of the following types: B, L, S, H. The various bearing types available in the above categories can be selected from the following table.

Table 1-11

Hanger Bearing Selection				
Bearing Component Groups	Bearing Types	Recommended Coupling Shaft Material Δ	Max. Recommended Operating Temperature	F_b
B	Ball	Standard	180°F	1.0
L	Bronze	Standard	300°F	
S	<i>Martin</i> Bronze*	Standard	450°F	2.0
	Graphite Bronze	Standard	500°F	
	Oil Impregnated Bronze	Standard	200°F	
	Oil Impregnated Wood	Standard	160°F	
	Nylatron	Standard	250°F	
	Nylon	Standard	160°F	
	Teflon	Standard	250°F	
	UHMW	Standard	225°F	
	Melamine (MCB)	Standard	250°F	
	Ertalyte® Quadrent	Standard	200°F	
H	<i>Martin</i> Hard Iron*	Hardened	500°F	3.4
	Hard Iron	Hardened	500°F	4.4
	Hard Surfaced	Hardened or Special	500°F	
	Stellite	Special	500°F	
	Ceramic	Special	1,000°F	
	White Iron Alloy	Special	500°F	

* Sintered Metal. Self-lubricating.

Δ OTHER TYPES OF COUPLING SHAFT MATERIALS

Various alloys, stainless steel, and other types of shafting can be furnished as required.

Horizontal Screw Conveyors

***Consult Factory for Inclined Conveyors or Screw Feeders**

The horsepower required to operate a horizontal screw conveyor is based on proper installation, uniform and regular feed rate to the conveyor and other design criteria as determined in this book.

The horsepower requirement is the total of the horsepower to overcome friction (HP_f) and the horsepower to transport the material at the specified rate (HP_m) multiplied by the overload factor F_o and divided by the total drive efficiency, or:

$$HP_f = \frac{L N F_d f_b}{1,000,000} = \text{(Horsepower to run an empty conveyor)}$$

$$HP_m = \frac{C L W F_f F_m F_p}{1,000,000} = \text{(Horsepower to move the material)}$$

$$\text{Total HP} = \frac{(HP_f + HP_m) F_o}{e}$$

The following factors determine the horsepower requirement of a screw conveyor operating under the foregoing conditions.

- L = Total length of conveyor, feet
- N = Operating speed, RPM (revolutions per minute)
- F_d = Conveyor diameter factor (See Table 1-12)
- F_b = Hanger bearing factor (See Table 1-13)
- C = Capacity in cubic feet per hour
- W = Weight of material, lbs. per cubic foot
- F_f = Flight factor (See Table 1-14)
- F_m = Material factor (See Table 1-2)
- F_p = Paddle factor, when required. (See Table 1-15)
- F_o = Overload factor (See Table 1-16)
- e = Drive efficiency (See Table 1-17)

Table 1-12

Conveyor Diameter Factor, F_d	
Screw Diameter (Inches)	Factor F_d
4	12.0
6	18.0
9	31.0
10	37.0
12	55.0
14	78.0
16	106.0
18	135.0
20	165.0
24	235.0
30	365.0
36	540.0

Table 1-13

Hanger Bearing Selection		
Bearing Types		Hanger Bearing F_b
B	Ball	1.0
L	<i>Martin</i> Bronze	2.0
	* Graphite Bronze	
	* Oil Impregnated Bronze	
	* Oil Impregnated Wood	
	* Nylatron	
	* Nylon	
	* Teflon	
	* UHMW	
	* Melamine (MCB)	
	* Ertalyte® Quadrent	
	* Urethane	
H	* <i>Martin</i> Hard Iron*	3.4
	* Hard Iron	
	* Stellite	
	* Ceramic	
	* White Iron Alloy	4.4

* Non lubricated bearings, or bearings not additionally lubricated.

Horsepower Factor Tables



Table 1-14

Flight Factor F_f				
Flight Type	F_f Factor for Percent Conveyor Loading			
	15%	30%	45%	95%
Standard	1.0	1.0	1.0	1.0
Cut Flight	1.10	1.15	1.20	1.3
Cut & Folded Flight	N.R.*	1.50	1.70	2.20
Ribbon Flight	1.05	1.14	1.20	—

*Not Recommended

Table 1-15

Paddle Factor F_p					
Standard Paddles per Pitch, Paddles Set at 45° Reverse Pitch					
Number of Paddles per Pitch	0	1	2	3	4
Paddle Factor – F_p	1.0	1.29	1.58	1.87	2.16

Table 1-16

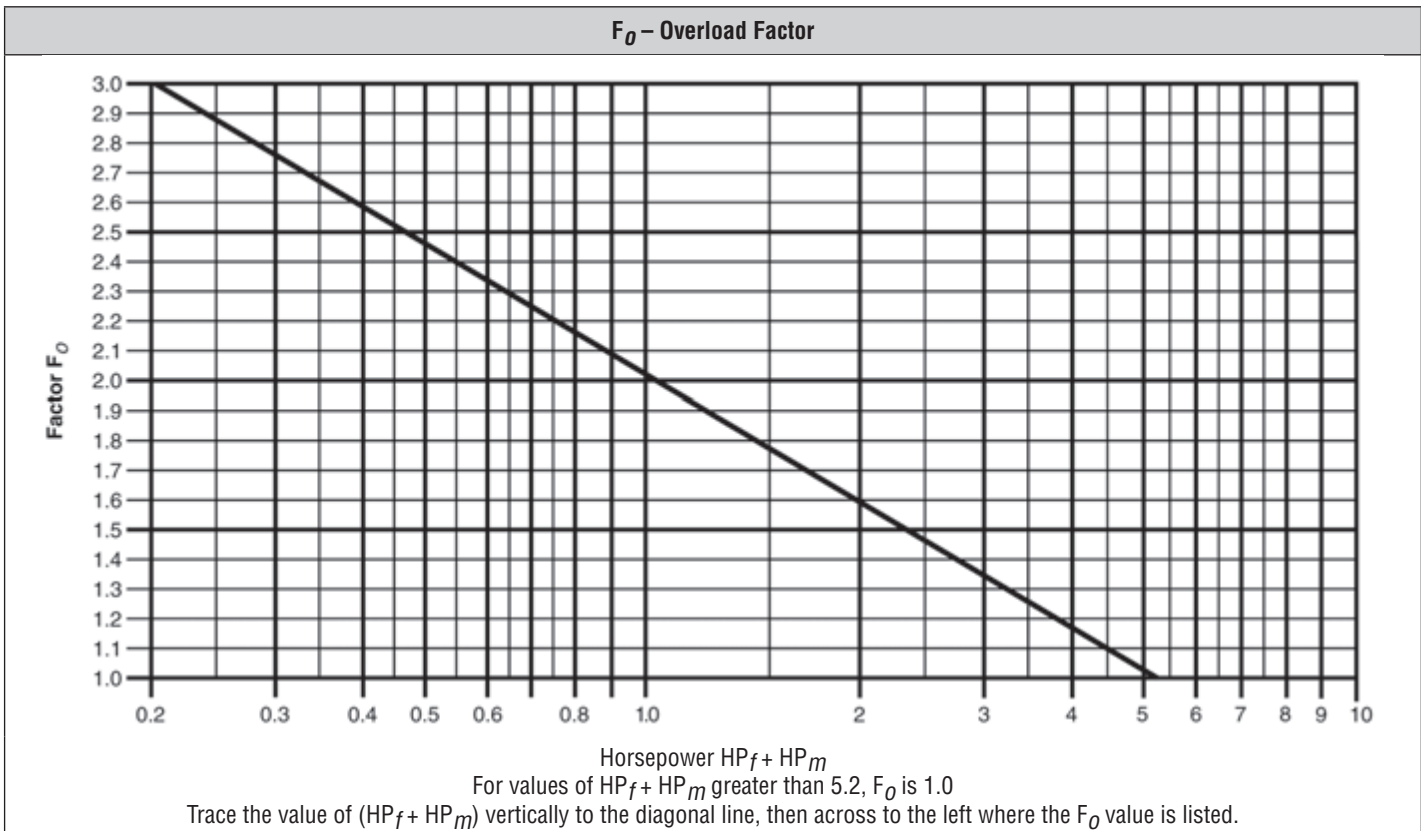


Table 1-17

e Drive Efficiency Factor				
Screw Drive or Shaft Mount w/V-Belt Drive	V-Belt to Helical Gear and Coupling	Gearmotor w/ Coupling	Gearmotor w/ Chain Drive	Worm Gear
.88	.87	.95	.87	Consult Manufacturer

EXAMPLE: Horsepower Calculation (See page H-180 for sample worksheet)

PROBLEM: Convey 1,000 cubic feet per hour Brewers grain, spent wet, in a 25'-0" long conveyor driven by a screw conveyor drive with V-belts.

SOLUTION:

1. Refer to material characteristic table 1-2 for Brewers grain, spent wet and find:

A. wt/cf: 55 - 60

B. Material code: C1/2 - 45T

Refer to Table 1-1, material classification code chart where:

C1/2 = Fine 1/2" and under

4 = Sluggish

5 = Mildly abrasive

T = Mildly corrosive

C. Intermediate bearing selection: L or S

Refer to Table 1-11 Bearing Selection, Find:

L = Bronze

S = Nylatron, Nylon, Teflon, UHMW Melamine, Graphite Bronze, Oil-impreg. Bronze, and oil-impreg. wood and Urethane.

D. Material Factor: $F_m = .8$

E. Trough Loading: 30%A

Refer to Table 1-6 capacity table and find 30%A which shows the various capacities per RPM of the standard size screw conveyors and the maximum RPM's for those sizes.

2. From Table 1-6, Capacity table under 30%A note that a 12" screw will convey 1,160 cubic feet per hour at 90 RPM maximum, therefore at 1 RPM a 12" screw will convey 12.9 cubic feet. For 1,000 CFH capacity at 12.9 CFH per RPM, the conveyor must therefore run 78RPM ($1000 \div 12.9 = 77.52$).

3. With the above information and factors from Tables 1-12 through 1-17 refer to the horsepower formulas on H-24 and calculate the required horsepower to convey 1000 CF/H for 25 feet in a 12" conveyor.

Using the known factors find that:

$L = 25'$

$N = 78$ RPM from step 2 above

$F_d = 55$ see Table 1-12, for 12"

$F_b = 2.0$ see Table 1-13 for L

$e = .88$ see Table 1-17

$C = 1000$ CFH

$W = 60\#/CF$ from step 1A

$F_f = 1$ see Table 1-14, standard 30%

$F_p = 1$ see Table 1-15

4. Solve the following horsepower equations:

$$A. HP_f = \frac{L N F_d F_b}{1,000,000} = \frac{25 \times 78 \times 55 \times 2.0}{1,000,000} = 0.215$$

$$B. HP_m = \frac{C L W F_f F_m F_p}{1,000,000} = \frac{1000 \times 25 \times 60 \times 1 \times .8 \times 1}{1,000,000} = 1.2$$

Find the F_o factor from 1-16; by adding HP_f and HP_m and matching this sum to the values on the chart.

$$C. HP_f = \frac{(HP_f + HP_m) (F_o)}{e} = \frac{(1.414) (1.9)}{.88} = 3.05$$

SOLUTION: 3.05 Horsepower is required to convey 1,000 CFH Brewers grain, spent wet in a 12" conveyor for 25 feet. A 5 H.P. motor should be used.

Torsional Ratings of Conveyor Screw Parts



Screw conveyors are limited in overall design by the amount of torque that can be safely transmitted through the pipes, couplings, and coupling bolts.

The table below combines the various torsional ratings of bolts, couplings and pipes so that it is easy to compare the torsional ratings of all the stressed parts of standard conveyor screws.

Table 1-18

Shaft Dia. In.	Pipe		Couplings		Dia. In.	Bolts in Shear In. Lbs. ▲		Bolts in Bearing In. Lbs.	
	Size In.	Torque In. Lbs.	Torque In. Lbs. *			No. of Bolts Used		No. of Bolts Used	
			C 1018	C 1045		2	3	2	3
1	1 1/4	3,140	820	1,025	3/8	1,380	2,070	1,970	2,955
1 1/2	2	7,500	3,070	3,850	1/2	3,660	5,490	5,000	7,500
2	2 1/2	14,250	7,600	9,500	5/8	7,600	11,400	7,860	11,790
2 7/16	3	23,100	15,030	18,780	5/8	9,270	13,900	11,640	17,460
3	3 1/2	32,100	28,350	35,440	3/4	16,400	24,600	15,540	23,310
3	4	43,000	28,350	35,440	3/4	16,400	24,600	25,000	37,500
3 7/16	4	43,300	42,470	53,080	7/8	25,600	38,400	21,800	32,700
3 15/16	5	65,100	61,190	76,485	1 1/8	48,540	72,810	52,120	78,180
4 7/16	6	101,160	88,212	110,265	1 1/4	67,520	101,280	90,750	136,125

▲ Values shown are for A307 64, Grade 2 Bolts. Values for Grade 5 Bolts are above × 2.5.

* Values are for unheattreated shafts.

The lowest torsional rating figure for any given component will be the one that governs how much torque may be safely transmitted. For example, using standard unhardened two bolt coupling shafts, the limiting torsional strength of each part is indicated in Table 1-18.

Thus it can be seen that the shaft itself is the limiting factor on 1", 1 1/2" and 2" couplings. The bolts in shear are the limiting factors on the 2-7/16" coupling and on the 3" coupling used in conjunction with 4" pipe. The bolts in bearing are the limiting factors for the 3" coupling used in conjunction with 3 1/2" pipe, and for the 3-7/16" coupling.

FORMULA: Horsepower To Torque (In. Lbs.)

$$\frac{63,025 \times \text{HP}}{\text{RPM}} = \text{Torque (In. Lbs.)}$$

EXAMPLE: 12" Screw, 78 RPM, 5 Horsepower

$$\frac{63,025 \times 5}{78} = 4,040 \text{ In. Lbs.}$$

From the table above 2" shafts with 2 bolt drilling and 2 1/2" std. pipe are adequate (4,040 < 7600).

If the torque is greater than the values in the above table, such as in 2" couplings (torque > 7600), then hardened shafts can be used as long as the torque is less than the value for hardened couplings (torque < 9500). If the torque is greater than the 2 bolt in shear value but less than the 3 bolt in shear value then 3 bolt coupling can be used. The same applies with bolts in bearing. When the transmitted torque is greater than the pipe size value, then larger pipe or heavier wall pipe may be used. Other solutions include: high torque bolts to increase bolt in shear rating, external collars, or bolt pads welded to pipe to increase bolt in bearing transmission. For solutions other than those outlined in the above table please consult our Engineering Department.



Horsepower Ratings of Conveyor Screw Parts

Screw conveyors are limited in overall design by the amount of horsepower that can be safely transmitted through the pipes, couplings, and coupling bolts.

The table below combines the various horsepower ratings of bolts, couplings and pipes so that it is easy to compare the ratings of all the stressed parts of standard conveyor screws.

Table 1-19

Coupling	Pipe		Coupling		Bolts				
Shaft Dia. In.	Size In.	H.P. per R.P.M.	H.P. per R.P.M		Bolt Dia. In.	Bolts in Shear H.P. per R.P.M. ▲		Bolts in Bearing H.P. per R.P.M.	
			CEMA Std (C-1018)	Martin Std. (C-1045)		No. of Bolts Used		No. of Bolts Used	
						2	3	2	3
1	1 1/4	.049	.013	.016	3/8	.021	.032	.031	.046
1 1/2	2	.119	.048	.058	1/2	.058	.087	.079	.119
2	2 1/2	.226	.120	.146	5/8	.120	.180	.124	.187
2 7/16	3	.366	.239	.289	5/8	.147	.220	.184	.277
3	3 1/2	.509	.450	.546	3/4	.260	.390	.246	.369
3	4	.682	.450	.546	3/4	.260	.390	.396	.595
3 7/16	4	.682	.675	.818	7/8	.406	.609	.345	.518
3	3 1/2	.509	.450	.546	3/4	.260	.390	.246	.369

▲ Values shown are for A307 64, Grade 2 Bolts.

The lowest horsepower rating figure for any given component will be the one that governs how much horsepower may be safely transmitted. The limiting strength of each part is indicated by the underlined figures in the table above.

FORMULA: Horsepower To Horsepower @ 1 RPM)

EXAMPLE: 12" Screw, 78 RPM, 5 Horsepower
 $\frac{5 \text{ HP}}{78 \text{ RPM}} = 0.06 \text{ HP at 1 RPM}$

From the table above .038 is less than the lowest limiting factor for 2" couplings, so 2" standard couplings with 2 bolts may be used. Solutions to limitations are the same as shown on H-26.

Screw Conveyor End Thrust Thermal Expansion



End thrust in a Screw Conveyor is created as a reaction to the forces required to move the material along the axis of the conveyor trough. Such a force is opposite in direction to the flow of material. A thrust bearing and sometimes reinforcement of the conveyor trough is required to resist thrust forces. Best performance can be expected if the conveyor end thrust bearing is placed so that the rotating members are in tension; therefore, an end thrust bearing should be placed at the discharge end of a conveyor. Placing an end thrust bearing assembly at the feed end of a conveyor places rotating members in compression which may have undesirable effects, but this is sometimes necessary in locating equipment.

There are several methods of absorbing thrust forces, the most popular methods are:

1. Thrust washer assembly — installed on the shaft between the pipe end and the trough end plate, or on the outside of the end bearing.
2. Type “E” end thrust assembly, which is a Double Roller Bearing and shaft assembly.
3. Screw Conveyor Drive Unit, equipped with double roller bearing thrust bearings, to carry both thrust and radial loads.

Past experience has established that component selection to withstand end thrust is rarely a critical factor and thrust is not normally calculated for design purposes. Standard conveyor thrust components will absorb thrust without resorting to special design in most applications.

Expansion of Screw Conveyors Handling Hot Materials

Screw conveyors often are employed to convey hot materials. It is therefore necessary to recognize that the conveyor will increase in length as the temperature of the trough and screw increases when the hot material begins to be conveyed.

The recommended general practice is to provide supports for the trough which will allow movement of the trough end feet during the trough expansion, and during the subsequent contraction when handling of the hot material ceases. The drive end of the conveyor usually is fixed, allowing the remainder of the trough to expand or contract. In the event there are intermediate inlets or discharge spouts that cannot move, the expansion type troughs are required.

Furthermore, the conveyor screw may expand or contract in length at different rates than the trough. Therefore, expansion hangers are generally recommended. The trough end opposite the drive should incorporate an expansion type ball or roller bearing or sleeve bearing which will safely provide sufficient movement.

The change in screw conveyor length may be determined from the following formula:

$$\Delta L = L (t_1 - t_2) C$$

- Where:
- ΔL = increment of change in length, inch
 - L = overall conveyor length in inches
 - t_1 = upper limit of temperature, degrees Fahrenheit
 - t_2 = limit of temperature, degrees Fahrenheit (or lowest ambient temperature expected)
 - C = coefficient of linear expansion, inches per inch per degree Fahrenheit. This coefficient has the following values for various metals:
 - a) Hot rolled carbon steel, 6.5×10^{-6} , (.0000065)
 - b) Stainless steel, 9.9×10^{-6} , (.0000099)
 - c) Aluminum, 12.8×10^{-6} , (.0000128)

EXAMPLE: A carbon steel screw conveyor 30 feet overall length is subject to a rise in temperature of 200°F, reaching a hot metal temperature of 260°F from an original metal temperature of 60°F.

$$\begin{aligned}t_1 &= 260 & t_1 - t_2 &= 200 \\t_2 &= 60 \\L &= (30) (12) = 360 \\ \Delta L &= (360) (200) (6.5 \times 10^{-6}) \\ &= 0.468 \text{ inches, or about } 15/32 \text{ inches.}\end{aligned}$$

When using conveyor screws of standard length, deflection is seldom a problem. However, if longer than standard sections of screw are to be used, without intermediate hanger bearings, care should be taken to prevent the screw flights from contacting the trough because of excessive deflection. The deflection at mid span may be calculated from the following formula.

$$D = \frac{5WL^3}{384 (29,000,000) (I)}$$

Where: D = Deflection at mid span in inches
 W = Total screw weight in pounds, see pages H-79 to H-84
 L = Screw length in inches
 I = Movement of inertia of pipe or shaft, see table 1-20 or 1-21 below

Table 1-20

Schedule 40 Pipe									
Pipe Size	2"	2 1/2"	3"	3 1/2"	4"	5"	6"	8"	10"
I	.666	1.53	3.02	4.79	7.23	15.2	28.1	72.5	161

Table 1-21

Schedule 80 Pipe									
Pipe Size	2"	2 1/2"	3"	3 1/2"	4"	5"	6"	8"	10"
I	.868	1.92	3.89	6.28	9.61	20.7	40.5	106	212

EXAMPLE: Determine the deflection of a 12H512 screw conveyor section mounted on 3" sch 40 pipe, overall length is 16'-0".

W = 272#

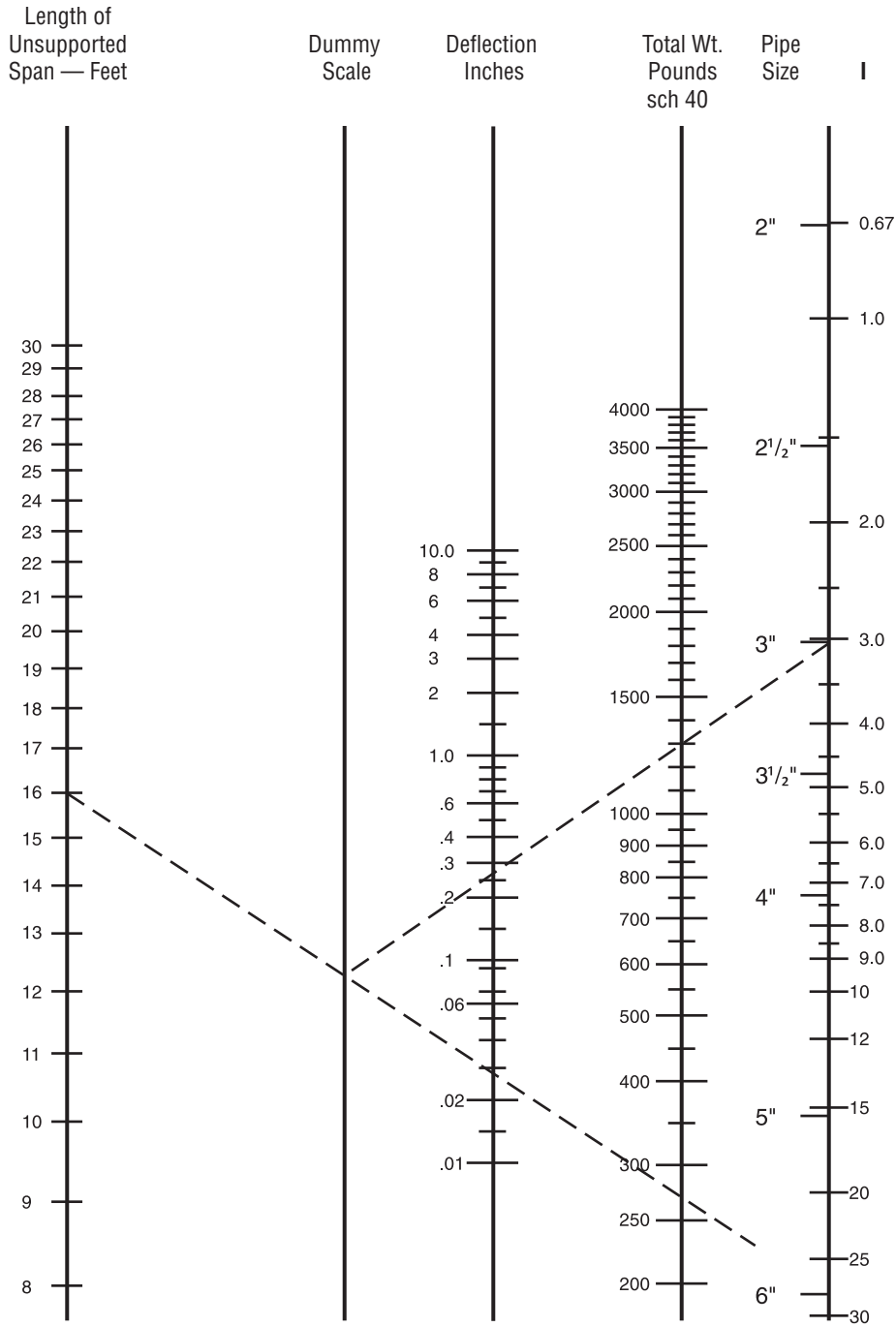
L = 192"

I = 3.02 (From chart above)

$$D = \frac{5(272\#)(192^3)}{384 (29,000,000) (3.02)} = .29 \text{ inches}$$

Applications where the calculated deflection of the screw exceeds .25 inches (1/4") should be referred to our Engineering Department for recommendations. Very often the problem of deflection can be solved by using a conveyor screw section with a larger diameter pipe or a heavier wall pipe. Usually, larger pipe sizes tend to reduce deflection more effectively than heavier wall pipe.

Conveyor Screw Deflection



I = Moment of inertia of pipe or shaft, see Table 1-20 or 1-21

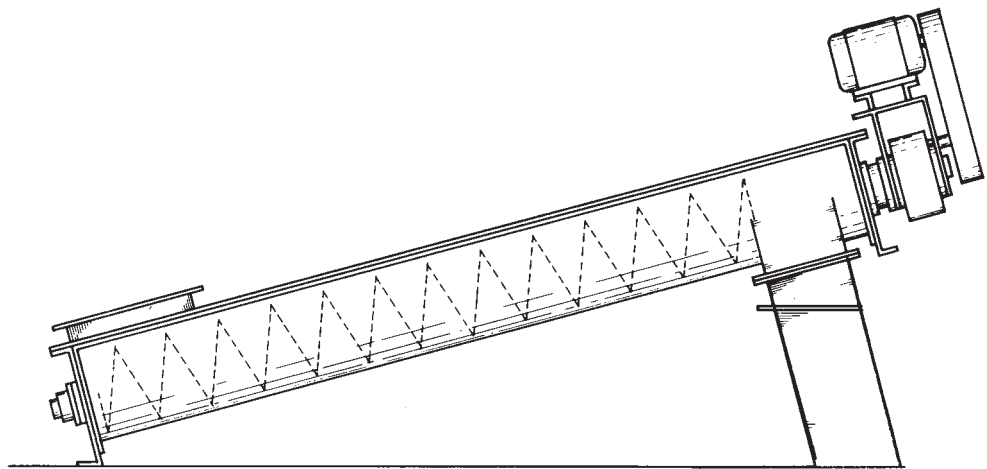
The above Nomograph can be used for a quick reference to check deflection of most conveyors.

Inclined Screw Conveyors

Inclined screw conveyors have a greater horsepower requirement and a lower capacity rating than horizontal conveyors. The amounts of horsepower increase and capacity loss depend upon the angle of incline and the characteristics of the material conveyed.

Inclined conveyors operate most efficiently when they are of tubular or shrouded cover design, and a minimum number of intermediate hanger bearings. Where possible, they should be operated at relatively high speeds to help prevent fallback of the conveyed material.

Consult our Engineering Department for design recommendations and horsepower requirements for your particular application.



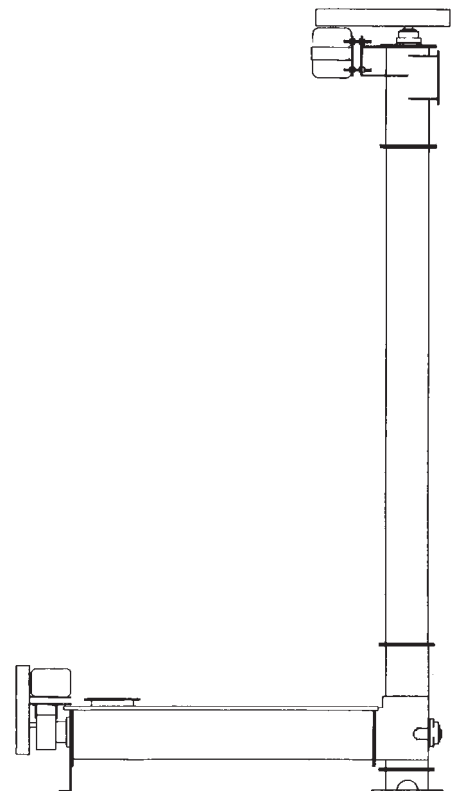
Vertical Screw Conveyors

Vertical screw conveyors provide an efficient method of elevating most materials that can be conveyed in horizontal screw conveyors. Since vertical conveyors must be uniformly loaded in order to prevent choking, they are usually designed with integral feeders.

As with horizontal conveyors, vertical screw conveyors are available with many special features and accessories, including components of stainless steel or other alloys.

Consult our Engineering Department for design recommendations and horsepower requirements for your particular application.

SEE VERTICAL SCREW CONVEYOR SECTION OF CATALOG FOR ADDITIONAL INFORMATION.



Screw Feeders



Screw Feeders are designed to regulate the rate of material flow from a hopper or bin. The inlet is usually flooded with material (95% loaded). One or more tapered or variable pitch screws convey the material at the required rate. Screw feeders are regularly provided with shrouded or curved cover plates for a short distance beyond the end of the inlet opening, to obtain feed regulation. As the pitch or diameter increases beyond the shroud the level of the material in the conveyor drops to normal loading levels. Longer shrouds, extra short pitch screws and other modifications are occasionally required to reduce flushing of very free flowing material along the feeder screw.

Feeders are made in two general types: Type 1 with regular pitch flighting and Type 2 with short pitch flighting. Both types are also available with uniform diameter and tapering diameter screws. The various combinations are shown on pages H-33 – H-34. Screw feeders with uniform screws, Types 1B, 1D, 2B, 2D are regularly used for handling fine free flowing materials. Since the diameter of the screw is uniform, the feed of the material will be from the forepart of the inlet and not across the entire length. Where hoppers, bins, tanks, etc. are to be completely emptied, or dead areas of material over the inlet are not objectionable, this type of feeder is entirely satisfactory, as well as economical. Screw feeders with tapering diameter screws will readily handle materials containing a fair percentage of lumps. In addition, they are used extensively where it is necessary or desirable to draw the material uniformly across the entire length of the inlet opening to eliminate inert or dead areas of material at the forepart of the opening. Types 1A, 1C, 2A, and 2C fall into this category. Variable pitch screws can be used in place of tapering diameter screws for some applications. They consist of screws with succeeding sectional flights increasing progressively in pitch. The portion of the screw with the smaller pitch is located under the inlet opening.

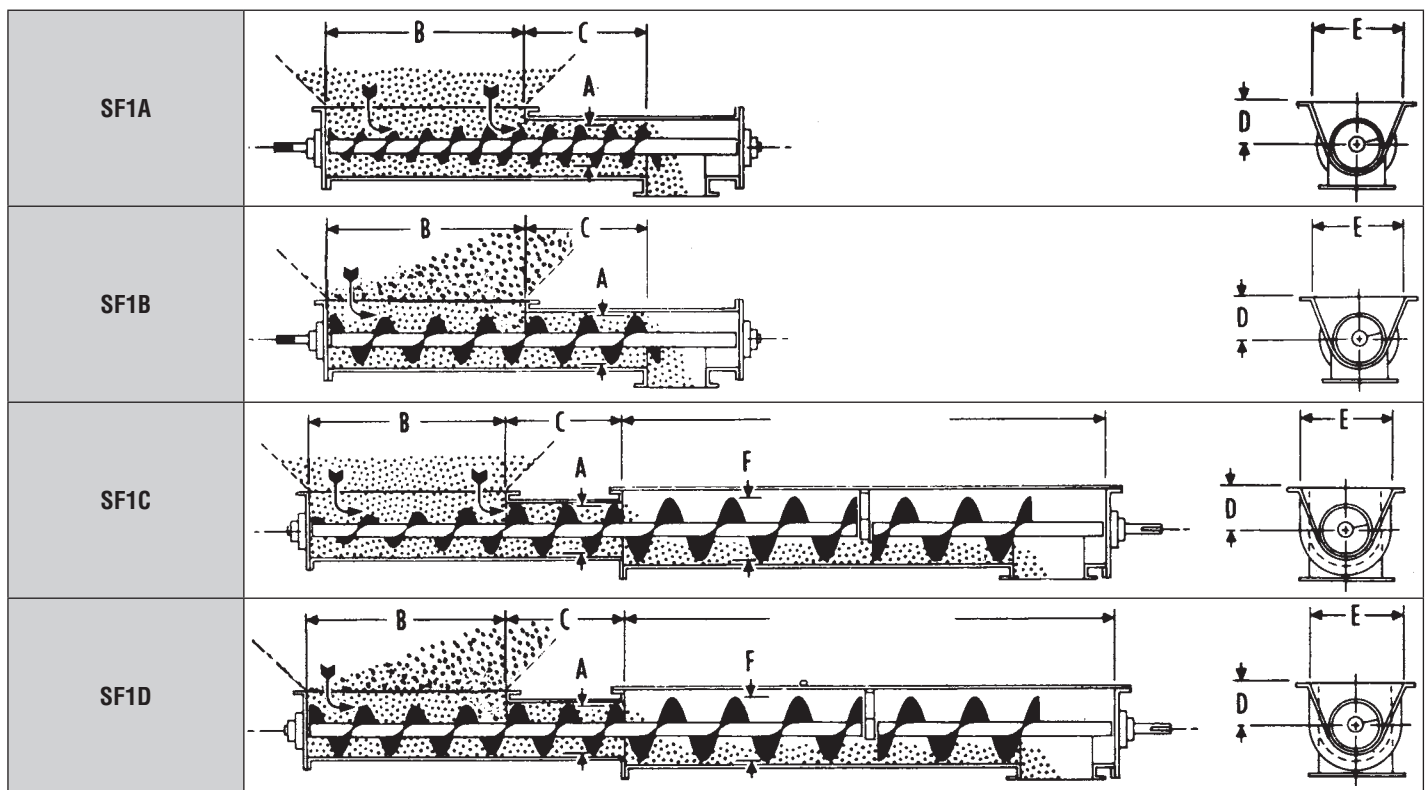
Screw feeders with extended screw conveyors are necessary when intermediate hangers are required, or when it is necessary to convey the material for some distance. A screw conveyor of larger diameter than the feeder screw is combined with the feeder to make the extension. See types 1C, 1D, 2C, 2D.

Multiple screw feeders are usually in flat bottom bins for discharging material which have a tendency to pack or bridge under pressure. Frequently, the entire bin bottom is provided with these feeders which convey the material to collecting conveyors. Such arrangements are commonly used for handling hogged fuel, wood shavings, etc.

Screw feeders are available in a variety of types to suit specific materials and applications. We recommend that you contact our Engineering Department for design information.

Typical Type 1

Feeder Type	Inlet Opening	Material Removal	Pitch	Feeder Screw Diameter	Extended Screw
SF1A	Standard	Uniform Full Length of Inlet Opening	Standard	Tapered	None
SF1B	Standard	Forepart Only of Inlet Opening	Standard	Uniform	None
SF1C	Standard	Uniform Full Length of Inlet Opening	Standard	Tapered	As Required
SF1D	Standard	Forepart Only of Inlet Opening	Standard	Uniform	As Required



Feeder Diameter A	Maximum Lump Size	Maximum Speed RPM	Capacity Cubic Feet per Hour		B*	C	D	E	Extended Screw Diameter F		
			At One RPM	At Maximum RPM					Trough Loading %		
									15	30	45
6	3/4"	70	4.8	336	36	12	7	14	12	9	9
9	1 1/2"	65	17	1105	42	18	9	18	18	14	12
12	2"	60	44	2640	48	24	10	22	24	18	16
14	2 1/2"	55	68	3740	54	28	11	24		20	18
16	3"	50	104	5200	56	32	11 1/2	28		24	20
18	3"	45	150	6750	58	36	12 1/8	31			24
20	3 1/2"	40	208	8320	60	40	13 1/2	34			
24	4"	30	340	10200	64	48	16 1/2	40			

* Consult factory if inlet exceeds these lengths.

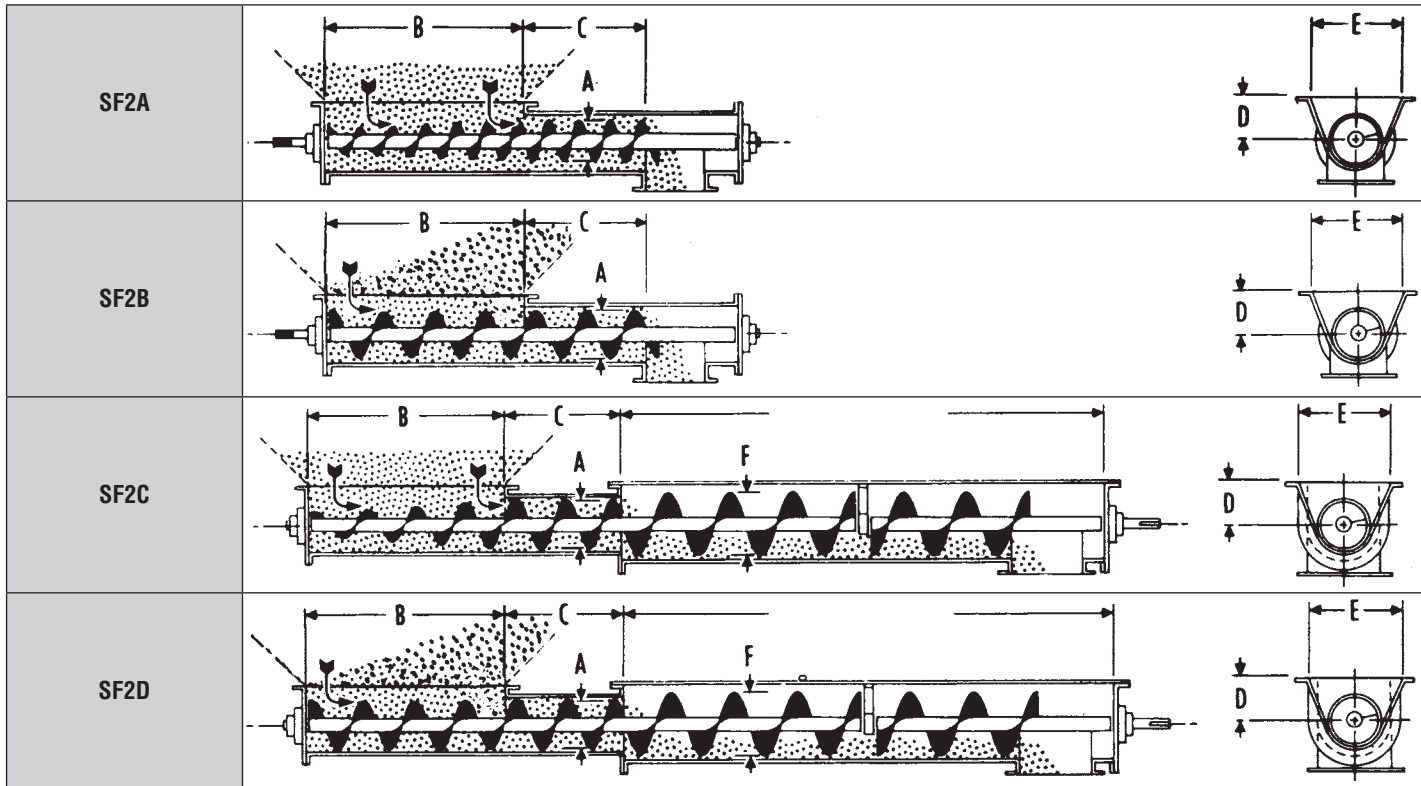
Screw Feeders

(For Inclined Applications Consult Factory)



Typical Type 2

Feeder Type	Inlet Opening	Material Removal	Pitch	Feeder Screw Diameter	Extended Screw
SF2A	Long	Uniform Full Length of Inlet Opening	Short (2/3)	Tapered	None
SF2B	Long	Forepart Only of Inlet Opening	Short (2/3)	Uniform	None
SF2C	Long	Uniform Full Length of Inlet Opening	Short (2/3)	Tapered	As Required
SF2D	Long	Forepart Only of Inlet Opening	Short (2/3)	Uniform	As Required



Feeder Diameter A	Maximum Lump Size	Maximum Speed RPM	Capacity Cubic Feet per Hour		B*	C	D	E	Extended Screw Diameter F		
			At One RPM	At Maximum RPM					Trough Loading %		
									15	30	45
6	1/2"	70	3.1	217	60	18	7	14	10	9	9
9	3/4"	65	11	715	66	27	9	18	14	12	10
12	1"	60	29	1740	72	36	10	22	20	16	14
14	1 1/4"	55	44	2420	76	42	11	24	24	18	16
16	1 1/2"	50	68	3400	78	48	11 1/2	28	20	18	20
18	1 3/4"	45	99	4455	80	54	12 1/8	31	24	20	24
20	2"	40	137	5480	82	60	13 1/2	34	24		
24	2 1/2"	30	224	6720	86	72	16 1/2	40			

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Classes of Enclosures

Conveyors can be designed to protect the material being handled from a hazardous surrounding or to protect the surroundings from a hazardous material being conveyed.

This section establishes recommended classes of construction for conveyor enclosures — without regard to their end use or application. These several classes call for specific things to be done to a standard conveyor housing to provide several degrees of enclosure protection.

Enclosure Classifications

- Class IE — Class IE enclosures are those provided primarily for the protection of operating personnel or equipment, or where the enclosure forms an integral or functional part of the conveyor or structure. They are generally used where dust control is not a factor or where protection for, or against, the material being handled is not necessary — although as conveyor enclosures a certain amount of protection is afforded.
- Class IIE — Class IIE enclosures employ constructions which provide some measure of protection against dust or for, or against, the material being handled.
- Class IIIE — Class IIIE enclosures employ constructions which provide a higher degree of protection in these classes against dust, and for or against the material being handled.
- Class IVE — Class IVE enclosures are for outdoor applications and under normal circumstances provide for the exclusion of water from the inside of the casing. They are not to be construed as being water-tight, as this may not always be the case.

When more than one method of fabrication is shown, either is acceptable.

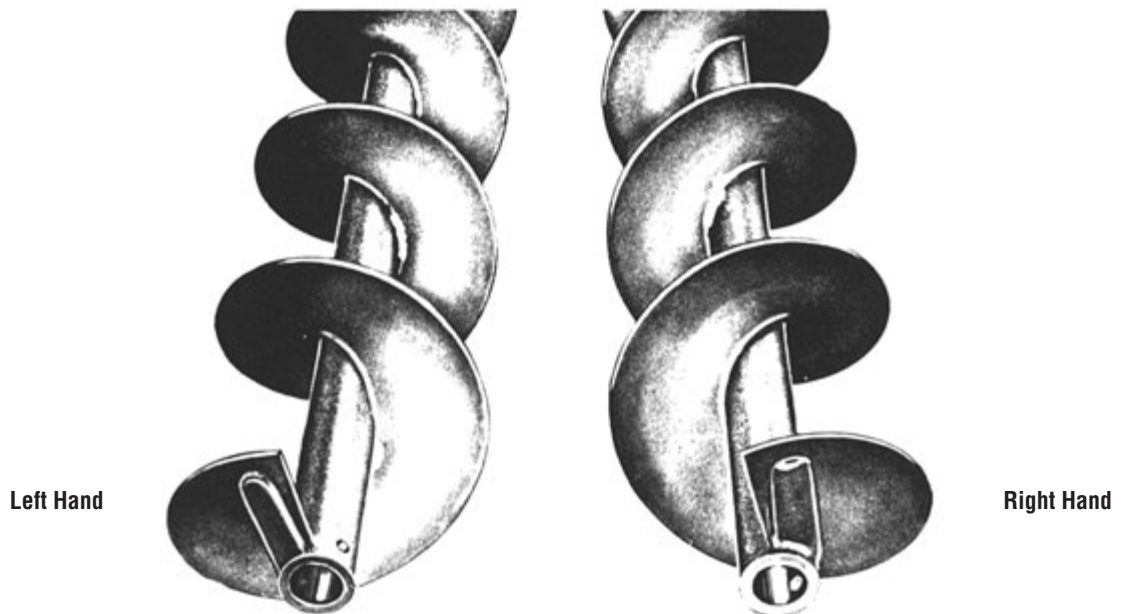
Enclosures



Enclosure Construction				
Component Classification	Enclosure Classifications			
	I E	II E	III E	IV E
A. TROUGH CONSTRUCTION				
Formed & Angle Top Flange				
1. Plate type end flange				
a. Continuous arc weld	X	X	X	X
b. Continuous arc weld on top of end flange and trough top rail	X	X	X	X
2. Trough Top Rail Angles (Angle Top trough only)				
a. Staggered intermittent arc and spot weld	X			
b. Continuous arc weld on top leg of angle on inside of trough and intermittent arc weld on lower leg of angle to outside of trough		X	X	X
c. Staggered intermittent arc weld on top leg of angle on inside of trough and intermittent arc weld on lower leg of angle to outside of trough, or spot weld when mastic is used between leg of angle and trough sheet		X	X	X
B. COVER CONSTRUCTION				
1. Plain flat				
a. Only butted when hanger is at cover joint	X			
b. Lapped when hanger is not at cover joint	X			
2. Semi-Flanged				
a. Only butted when hanger is at cover joint	X	X	X	X
b. Lapped when hanger is not at cover joint	X			
c. With buttstrap when hanger is not at cover joint		X	X	X
3. Flanged				
a. Only butted when hanger is at cover joint		X	X	X
b. Buttstrap when hanger is not at cover joint		X	X	X
4. Hip Roof				
a. Ends with a buttstrap connection				X
C. COVER FASTENERS FOR STANDARD GA. COVERS				
1. Spring, screw or toggle clamp fasteners or bolted construction				
a. Max. spacing plain flat covers	60"			
b. Max. spacing semi-flanged covers	60"	30"	18"	18"
c. Max. spacing flanged and hip-roof covers		40"	24"	24"
D. GASKETS				
1. Covers				
a. Red rubber or felt up to 230° F		X	X	
b. Neoprene rubber, when contamination is a problem		X	X	
c. Closed cell foam type elastic material to suit temperature rating of gasket		X	X	X
2. Trough End flanges				
a. Mastic type compounds		X	X	X
b. Red rubber up to 230° F		X	X	X
c. Neoprene rubber, when contamination is a problem		X	X	
d. Closed cell foam type elastic material to suit temperature rating of gasket		X	X	X
E. TROUGH END SHAFT SEALS*				
1. When handling non-abrasive materials			X	X
2. When handling abrasive materials	X	X	X	X

- *NOTES:**
- Lip type seals for non-abrasive materials
 - Felt type for mildly abrasive materials
 - Waste type for highly abrasive materials
 - Waste type for moderately abrasive
 - Air-Purged *Martin* Super Pack for extremely abrasive
 - Bulk Heads may be required for abrasive & hot materials

WARNING: CHECK MATERIAL TEMPERATURE.



Right and Left Hand Screw

A conveyor screw is either right hand or left hand depending on the form of the helix. The hand of the screw is easily determined by looking at the end of the screw.

The screw pictured to the left has the flight helix wrapped around the pipe in a counter-clockwise direction, or to your left. Same as left hand threads on a bolt. This is arbitrarily termed a LEFT hand screw.

The screw pictured to the right has the flight helix wrapped around the pipe in a clockwise direction, or to your right. Same as right hand threads on a bolt. This is termed a RIGHT hand screw.

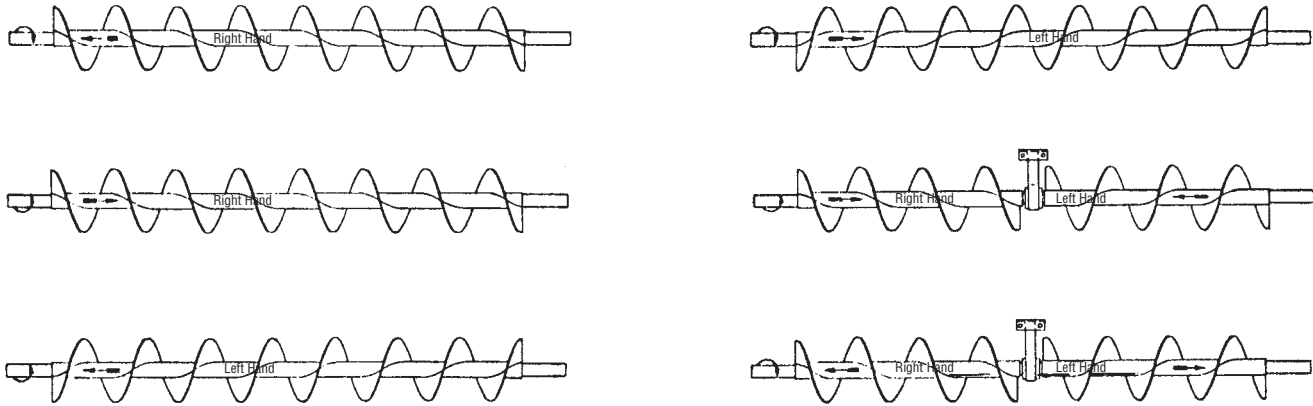
A conveyor screw viewed from either end will show the same configuration. If the end of the conveyor screw is not readily visible, then by merely imagining that the flighting has been cut, with the cut end exposed, the hand of the screw may be easily determined.

Conveyor Screw Rotation



The above diagrams are a simple means of determining screw rotation. When the material flow is in the direction away from the end being viewed, a R.H. screw will turn counter clockwise and a L.H. screw will turn clockwise rotation as shown by the arrows.

Conveyor Screw Rotation



The above diagram indicates the hand of conveyor screw to use when direction of rotation and material flow are known.

Special Screw Conveyor Continuous Weld Finishes

Specifications on screw conveyor occasionally include the term “grind smooth” when referring to the finish on continuous welds. This specification is usually used for stainless steel, but occasionally it will appear in carbon steel specifications as well.

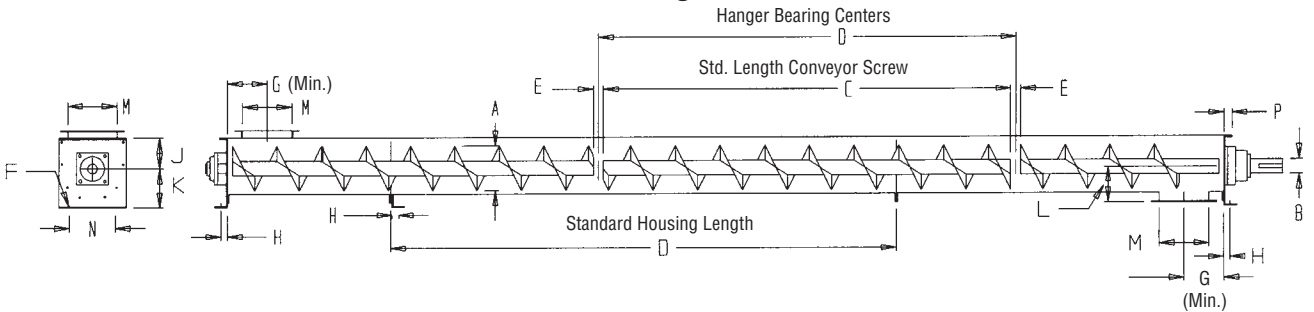
“Grind smooth” is a general term and subject to various interpretations. This Table establishes recommended classes of finishes, which should be used to help find the class required for an application.

Operation	Weld Finishes			
	I	II	III	IV
Weld spatter and slag removed	X	X	X	X
Rough grind welds to remove heavy weld ripple or unusual roughness (Equivalent to a 40-50 grit finish)		X		
Medium grind welds — leaving some pits and crevices (Equivalent to a 80-100 grit finish)			X	
Fine grind welds — no pits or crevices permissible (Equivalent to a 140-150 grit finish)				X

* *Martin* IV Finish: CEMA IV welds, polish pipe & flights to 140-150 grit finish.

* *Martin* IV Polish: Same as above plus Scotch-Brite Finish.

Trough

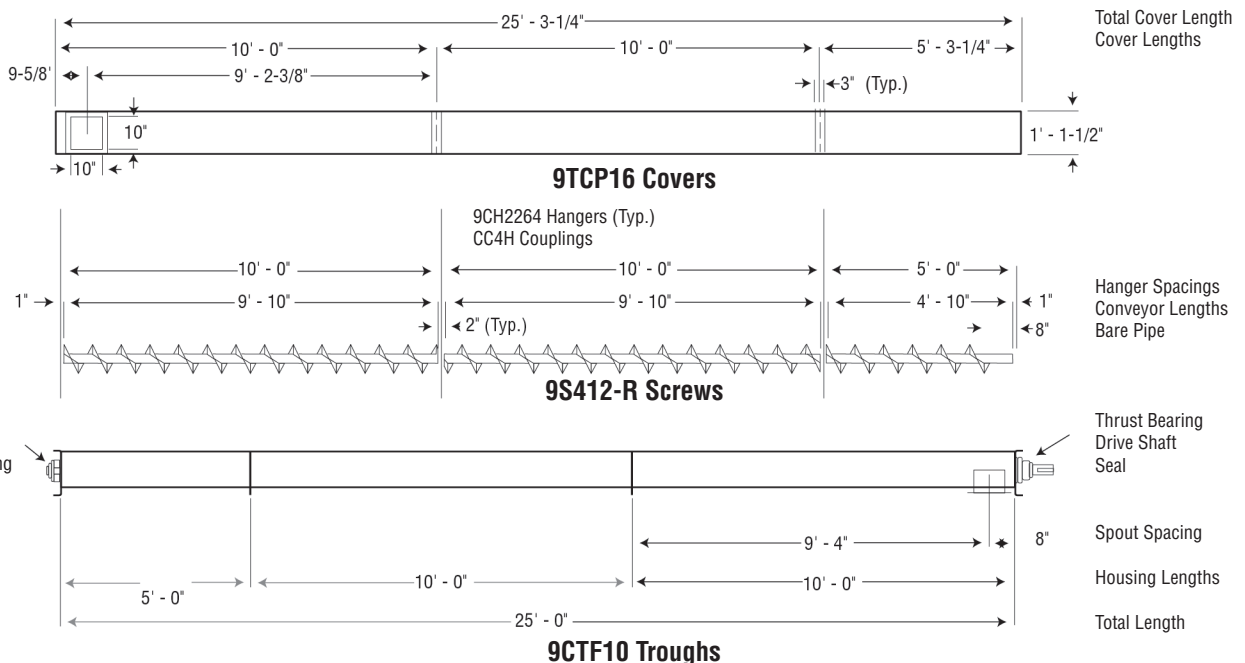


A Screw Dia.	B Coupling Dia.	C Length	D Length	E	F	G (Min.)	H	J	K	L	M	N	P	R
4	1	9-10 1/2	10	1 1/2	3/8	4 1/2	7/8	3 5/8	4 5/8	3 3/4	5	5 3/4	1 7/16	1
6	1 1/2	9-10	10	2	3/8	6	13/16	4 1/2	5 5/8	5	7	8 1/8	1 1/2	1
9	1 1/2 2	9-10	10	2	1/2	8	15/16	6 1/8	7 7/8	7 1/8	10	9 3/8	1 5/8	1 1/2
10	1 1/2 2	9-10	10	2	1/2	9	1 9/16	6 3/8	8 7/8	7 7/8	11	9 1/2	1 3/4	1 3/4
12	2 2 7/16 3	11-10 11-9 11-9	12	2 3 3	5/8	10 1/2	1 3/8	7 3/4	9 5/8	8 7/8	13	12 1/4	2	1 5/8
14	2 7/16 3	11-9	12	3	5/8	11 1/2	1 3/8	9 1/4	10 7/8	10 1/8	15	13 1/2	2	1 5/8
16	3	11-9	12	3	5/8	13 1/2	1 3/4	10 5/8	12	11 1/8	17	14 7/8	2 1/2	2
18	3 3 7/16	11-9 11-8	12	3 4	5/8	14 1/2	1 3/4	12 1/8	13 3/8	12 3/8	19	16	2 1/2	2
20	3 3 7/16	11-9 11-8	12	3 4	3/4	15 1/2	2	13 1/2	15	13 3/8	21	19 1/4	2 1/2	2 1/4
24	3 7/16	11-9	12	4	3/4	17 1/2	2 1/4	16 1/2	18 1/8	15 3/8	25	20	2 1/2	2 1/2

Screw clearance at trough end is one half of dimension E.

Typical Method of Detailing

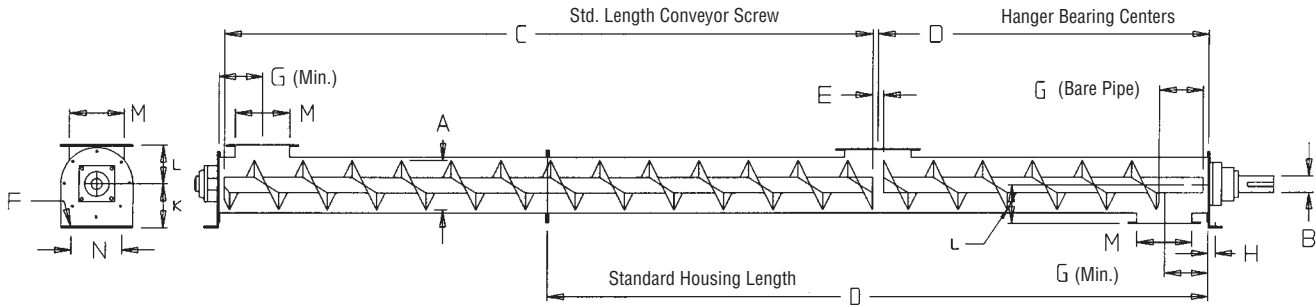
9" x 2" x 25'-0" Conveyor



Layout



Tubular Housing

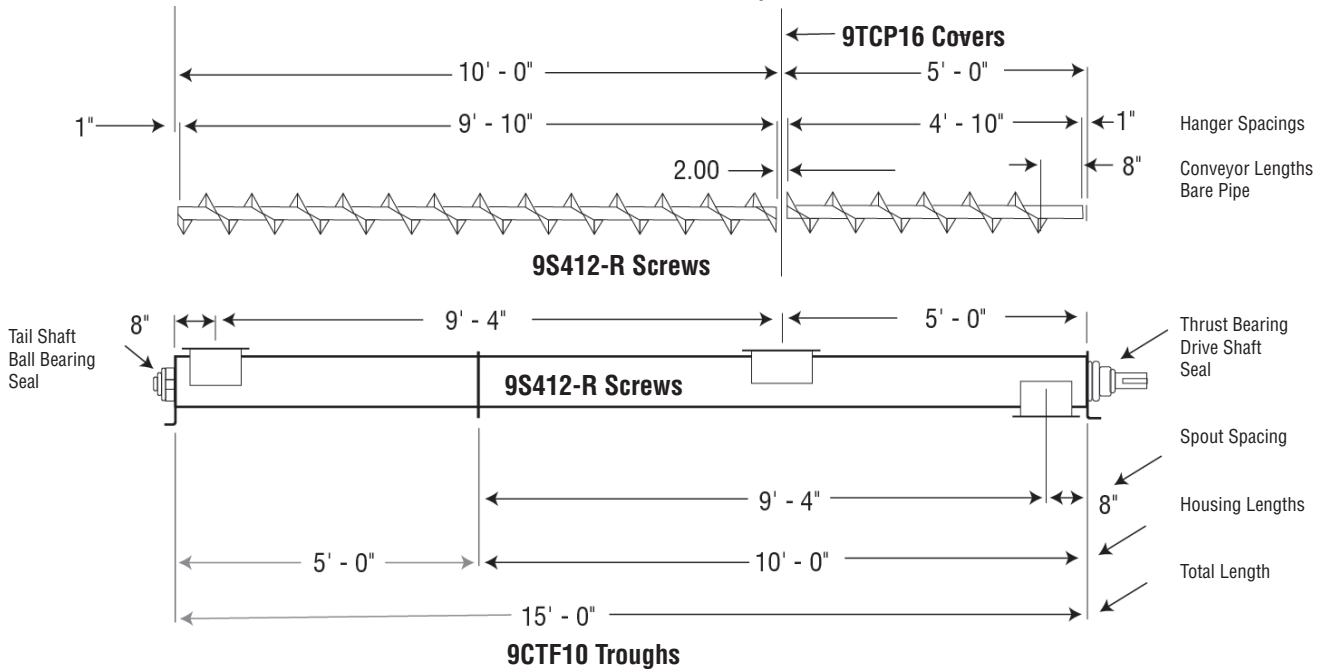


A Screw Dia.	B Coupling Dia.	C Length	D Length	E	F	G (Min.)	H	K	L	M	N	P	R
4	1	9 - 10 1/2	10	1 1/2	3/8	4 1/2	7/8	4 5/8	3 3/4	5	5 3/4	1 7/16	1
6	1 1/2	9 - 10	10	2	3/8	6	13/16	5 5/8	5	7	8 1/8	1 1/2	1
9	1 1/2 2	9 - 10 9 - 10	10	2	1/2	8	1 5/16	7 7/8	7 1/8	10	9 3/8	1 5/8	1 1/2
10	1 1/2 2	9 - 10 9 - 10	10	2	1/2	9	1 9/16	8 7/8	7 7/8	11	9 1/2	1 3/4	1 3/4
12	2 2 7/16 3	11 - 10 11 - 9 11 - 9	12	2 3 3	5/8	10 1/2	1 3/8	9 5/8	8 7/8	13	12 1/4	2	1 5/8
14	2 7/16 3	11 - 9 11 - 9	12	3	5/8	11 1/2	1 3/8	10 7/8	10 1/8	15	13 1/2	2	1 5/8
16	3	11 - 9	12	3	5/8	13 1/2	1 3/4	12	11 1/8	17	14 7/8	2 1/2	2
18	3 3 7/16	11 - 9 11 - 8	12	3 4	5/8 3/4	14 1/2 15 1/2	1 3/4 2	13 3/8 15	12 3/8 13 3/8	19 21	16 19 1/4	2 1/2 2 1/2	2 2 1/4
20	3 3 7/16	11 - 9 11 8	12	3 4	3/4	15 1/2	2	15	13 3/8	21	19 1/4	2 1/2	2 1/4
24	3 7/16	11 8	12	4	3/4	17 1/2	2 1/4	18 1/8	15 3/8	25	20	2 1/2	2 1/2

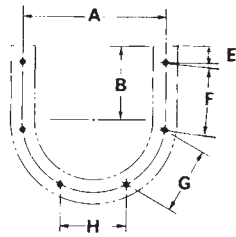
Screw clearance at trough end is one half of dimension E.

Typical Method of Detailing

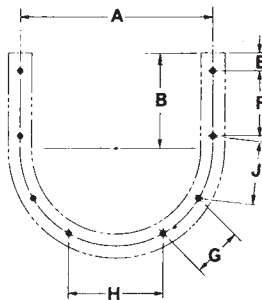
9" x 2" x 25'-0" Conveyor



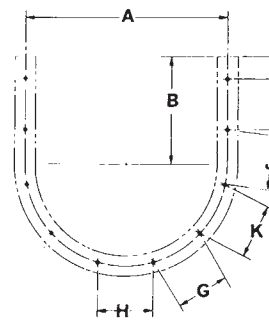
U-Trough End Flanges



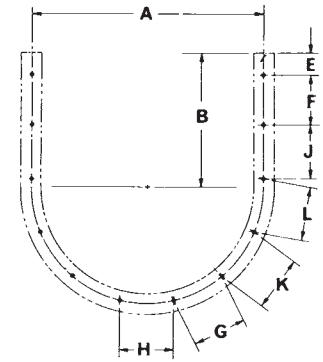
6 Bolts



8 Bolts



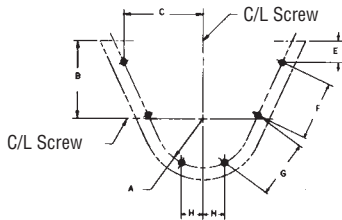
10 Bolts



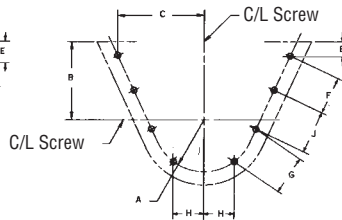
12 Bolts

Screw Diameter	Bolts		A	B	E	F	G	H	J	K	L
	Number	Diameter									
4	6	3/8	7	3 5/8	1 1/8	3 1/8	3 1/8	3 1/8	X	X	X
6	6	3/8	8 7/8	4 1/2	1 1/32	4 1/8	4 1/16	4 1/16	X	X	X
9	8	3/8	12 1/2	6 1/8	1 3/16	4 1/8	3 3/4	5 1/8	4 1/8	X	X
10	8	3/8	13 1/4	6 3/8	2 1/4	3 1/2	4 3/16	5 1/16	4 1/8	X	X
12	8	1/2	15 7/8	7 3/4	1 1/2	5 5/16	4 1/16	7 3/4	5 3/16	X	X
14	8	1/2	17 7/8	9 1/4	2 17/32	5 5/8	5 15/16	6	5 15/16	X	X
16	8	5/8	20	10 5/8	2 5/8	6 3/8	6 5/8	7 1/2	6 5/8	X	X
18	10	5/8	22	12 1/8	2 23/32	5 15/16	5 7/8	5 7/8	5 7/8	5 7/8	X
20	10	5/8	24 3/8	13 1/2	2 25/32	6 1/4	6 11/16	6 11/16	6 11/16	6 11/16	X
24	12	5/8	28 1/2	16 1/2	2 25/32	6 1/8	6 5/8	6 5/8	6 5/8	6 5/8	6 5/8

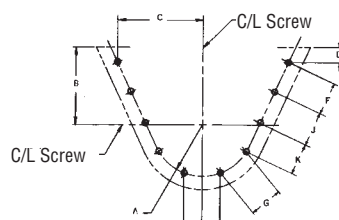
Flared Trough End Flanges



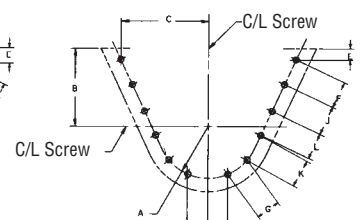
6 Bolts



8 Bolts



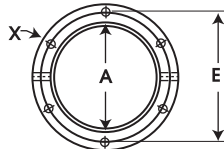
10 Bolts



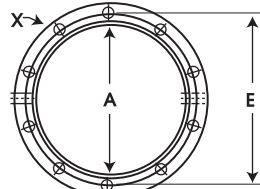
12 Bolts

Screw Diameter	Bolts		A	B	C	E	F	G	H	J	K	L
	Diameter Number	Holes										
6	3/8	6	4 7/16	7	7 3/16	1 27/32	5 1/4	5 1/4	2 1/32	—	—	—
9	3/8	8	6 1/4	9	9 21/32	1 43/64	5	5	2 9/16	5	—	—
12	1/2	8	7 15/16	10	11 13/16	1 13/16	5 3/4	5 3/4	3 7/8	5 3/4	—	—
14	1/2	10	8 15/16	11	12 49/64	2 1/16	5 1/8	5 1/8	3	5 1/8	5 1/8	—
16	5/8	10	10	11 1/2	14 11/16	2 15/64	5 1/2	5 1/2	3 3/4	5 1/2	5 1/2	—
18	5/8	10	11	12 1/8	16	2 5/8	6 3/16	6 3/16	2 15/16	6 3/16	6 3/16	—
20	5/8	10	12 3/16	13 1/2	17 7/8	2 9/32	7	7	3 11/32	7	7	—
24	5/8	12	14 1/4	16 1/2	20 61/64	2 5/16	6 7/8	6 7/8	3 5/16	6 7/8	6 7/8	6 7/8

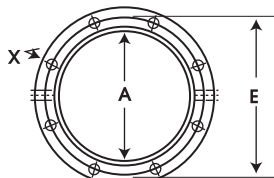
Tubular Housing Flanges



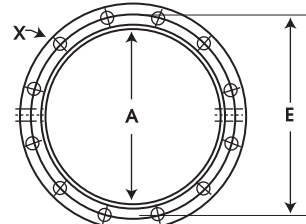
6 Bolts



10 Bolts

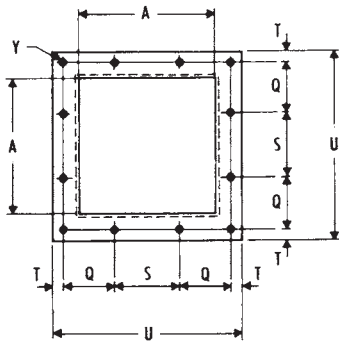


8 Bolts

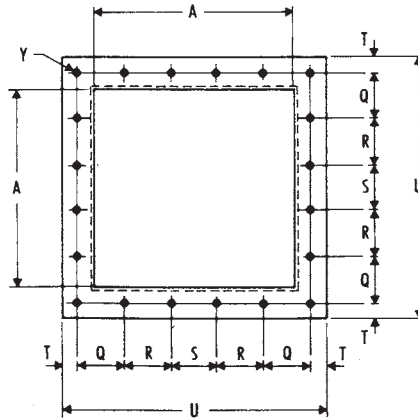


12 Bolts

Intake & Discharge Flanges



12 Bolts



20 Bolts

Screw Size	Flange Bolts		A	E	Q	R	S	T	U
	Tabular X	Discharge Y							
4	6 - 3/8	12 - 1/4	5	7	2 1/4	—	2 1/4	3/8	7 1/2
6	8 - 3/8	12 - 3/8	7	8 7/8	2 13/16	—	3	11/16	10
9	8 - 3/8	12 - 3/8	10	11 7/8	4	—	4	1/2	13
10	8 - 3/8	12 - 3/8	11	13 1/4	4 5/16	—	4 3/8	5/8	14 1/4
12	8 - 1/2	12 - 3/8	13	15	5 1/8	—	5 1/4	7/8	17 1/4
14	8 - 1/2	20 - 3/8	15	17	3 1/2	3 1/2	3 1/2	7/8	19 1/4
16	8 - 5/8	20 - 3/8	17	19 1/2	3 3/4	4	4	7/8	21 1/4
18	10 - 5/8	20 - 1/2	19	22	4 7/16	4 3/8	4 3/8	1 1/8	24 1/4
20	10 - 5/8	20 - 1/2	21	24 3/8	4 7/8	4 3/4	4 3/4	1 1/8	26 1/4
24	12 - 5/8	20 - 1/2	25	28 1/2	5 5/8	5 5/8	5 1/2	1 1/8	30 1/4

Part Name	4	6	9	10	12	14	16	18	20	24
Flange, Trough	6 - 3/8 x 1 1/4	6 - 3/8 x 1 1/4	8 - 3/8 x 1 1/4	8 - 3/8 x 1 1/4	8 - 1/2 x 1 1/2	8 - 1/2 x 1 1/2	8 - 5/8 x 1 3/4	10 - 5/8 x 1 3/4	10 - 5/8 x 1 3/4	12 - 5/8 x 1 3/4
Flange, Tubular Housing	6 - 3/8 x 1 1/4	8 - 3/8 x 1 1/4	8 - 3/8 x 1 1/4	8 - 3/8 x 1 1/4	8 - 1/2 x 1 1/2	8 - 1/2 x 1 1/2	8 - 5/8 x 1 3/4	10 - 5/8 x 1 3/4	10 - 5/8 x 1 3/4	12 - 5/8 x 1 3/4
End, Trough										
Inside	6 - 1/4 x 3/4	7 3/8 x 1	8 - 3/8 x 1 1/4	8 - 3/8 x 1 1/4	8 - 1/2 x 1 1/4	8 - 1/2 x 1 1/4	8 - 5/8 x 1 1/4	10 - 5/8 x 1 1/4	10 - 5/8 x 1 1/2	12 - 5/8 x 1 1/2
Inside Discharge	4 - 3/8 x 1	4 - 3/8 x 1	4 - 3/8 x 1 1/4	6 - 3/8 x 1 1/4	6 - 1/2 x 1 1/4	6 - 1/2 x 1 1/4	6 - 5/8 x 1 1/4	6 - 5/8 x 1 1/2	6 - 5/8 x 1 1/2	6 - 5/8 x 1 1/2
Inside Rectangular	5 1/4 x 3/4	6 - 3/8 x 1	8 - 3/8 x 1 1/4	8 - 3/8 x 1 1/4	10 - 1/2 x 1 1/4	11 - 1/2 x 1 1/4	12 - 5/8 x 1 1/4	12 - 5/8 x 1 1/4	12 - 5/8 x 1 1/2	12 - 5/8 x 1 1/2
Outside Type	6 - 3/8 x 1 1/4	6 - 3/8 x 1 1/4	8 - 3/8 x 1 1/4	8 - 3/8 x 1 1/4	8 - 1/2 x 1 1/2	8 - 1/2 x 1 1/2	8 - 5/8 x 1 3/4	10 - 5/8 x 1 3/4	10 - 5/8 x 1 3/4	12 - 5/8 x 1 3/4
Outside Discharge	4 - 3/8 x 1	2 - 3/8 x 1	4 - 3/8 x 1 1/4	4 - 3/8 x 1 1/4	4 - 1/2 x 1 1/4	4 - 1/2 x 1 1/4	4 - 5/8 x 1 1/2	4 - 5/8 x 1 1/2	4 - 5/8 x 1 1/2	6 - 5/8 x 1 1/2
Ends, Tubular Housing	6 - 3/8 x 1	8 - 3/8 x 1 1/4	8 - 3/8 x 1 1/4	8 - 3/8 x 1 1/4	8 - 1/2 x 1 1/2	8 - 1/2 x 1 1/2	8 - 5/8 x 1 3/4	10 - 5/8 x 1 3/4	10 - 5/8 x 1 3/4	12 - 5/8 x 1 3/4
Hanger, Trough										
Style 60		2 - 1/2 x 2	2 - 1/2 x 2	2 - 1/2 x 2	2 - 1/2 x 2 1/2	2 - 1/2 x 2 1/2	2 - 5/8 x 2 3/4	2 - 5/8 x 2 3/4	2 - 5/8 x 2 3/4	
Style 70		4 - 3/8 x 1	4 - 3/8 x 1 1/4	4 - 3/8 x 1 1/4	4 - 1/2 x 1 1/2	4 - 1/2 x 1 1/2	4 - 1/2 x 1 1/2	4 - 1/2 x 13/4	4 - 5/8 x 2	
Style 216		4 - 3/8 x 1 1/4	4 - 3/8 x 1 1/4	4 - 3/8 x 1 1/4	4 - 1/2 x 1 1/2	4 - 1/2 x 1 1/2	4 - 1/2 x 1 1/2	4 - 5/8 x 13/4	4 - 5/8 x 2	4 - 5/8 x 2 1/2
Style 220	4 - 1/4 x 1	4 - 3/8 x 1	4 - 3/8 x 1	4 - 3/8 x 1	4 - 1/2 x 1 1/4	4 - 1/2 x 1 1/2	4 - 1/2 x 1 1/2	4 - 5/8 x 13/4	4 - 5/8 x 1 3/4	4 - 5/8 x 1 3/4
Style 226	4 - 1/4 x 1	4 - 3/8 x 1 1/4	4 - 3/8 x 1 1/4	4 - 3/8 x 1 1/4	4 - 1/2 x 1 1/2	4 - 1/2 x 1 1/2	4 - 1/2 x 1 1/2	4 - 5/8 x 13/4	4 - 5/8 x 2	4 - 5/8 x 2 1/2
Style 230		4 - 3/8 x 1	4 - 3/8 x 1	4 - 3/8 x 1	4 - 1/2 x 1 1/4	4 - 1/2 x 1 1/2	4 - 1/2 x 1 1/2	4 - 5/8 x 13/4	4 - 5/8 x 1 3/4	4 - 5/8 x 1 3/4
Style 316	4 - 1/4 x 1	4 - 3/8 x 1	4 - 3/8 x 1	4 - 3/8 x 1	4 - 1/2 x 1 1/2	4 - 1/2 x 1 1/4	4 - 1/2 x 1 1/4	4 - 5/8 x 1 1/2	4 - 5/8 x 1 1/2	4 - 5/8 x 1 1/2
Style 326	4 - 1/4 x 1	4 - 3/8 x 1	4 - 3/8 x 1	4 - 3/8 x 1	4 - 1/2 x 1 1/4	4 - 1/2 x 1 1/4	4 - 1/2 x 1 1/4	5 5/8 x 1 1/2	4 - 5/8 x 1 1/2	4 - 5/8 x 1 1/2
Covers, Trough (Std. 10 ft.)	10 - 5/16 x 1	10 - 5/16 x 1	10 - 5/16 x 1	10 - 5/16 x 1	10 - 5/16 x 1	10 - 5/16 x 1	10 - 5/16 x 1	10 - 5/16 x 1	10 - 5/16 x 1	10 - 5/16 x 1
Saddle - Feet										
Flanged Feet										
Saddle (Now Welded)	2 - 3/8 x 1 1/2	2 - 3/8 x 1 1/2	2 - 3/8 x 1 1/2	2 - 3/8 x 1 1/2	2 - 1/2 x 13/4	2 - 1/2 x 13/4	2 - 5/8 x 2	2 - 5/8 x 2	2 - 5/8 x 2	2 - 5/8 x 2
Spouts, Discharge										
Attaching Bolts	8 - 3/8 x 1 1/2	8 - 3/8 x 1 1/2	8 - 3/8 x 1 1/2	8 - 3/8 x 1 1/2	8 - 3/8 x 1 1/2	12 - 3/8 x 1 1/2	12 - 3/8 x 1 1/2	12 - 1/2 x 1 1/2	12 - 1/2 x 1 1/2	12 - 1/2 x 1 1/2
Flange	12 - 3/8 x 1	12 - 3/8 x 1	12 - 3/8 x 1	12 - 3/8 x 1	12 - 3/8 x 1	20 - 3/8 x 1	20 - 3/8 x 1	20 - 1/2 x 1	20 - 1/2 x 1	20 - 1/2 x 1
Flange w/Slide	10 - 3/8 x 1	10 - 3/8 x 1	10 - 3/8 x 1	10 - 3/8 x 1	10 - 3/8 x 1	16 - 3/8 x 1	16 - 3/8 x 1	16 - 1/2 x 1 1/4	16 - 1/2 x 1 1/4	16 - 1/2 x 1 1/4

All bolts hex head cap screws with hex nuts and lock washers.

Bolt Requirements



Part Name	1	1 1/2	2	2 7/16	3	3 7/16
Bearings, End						
Discharge Bronze	3 – 3/8 × 1 1/4	3 – 1/2 × 1 1/2	3 – 5/8 × 1 3/4	3 – 5/8 × 1 3/4	3 – 3/4 × 2	3 – 3/4 × 2 1/4
Discharge Ball	3 – 3/8 × 1 1/4	3 – 1/2 × 1 1/2	3 – 5/8 × 1 1/2	3 – 5/8 × 13/4	3 – 3/4 × 2	3 – 3/4 × 2 1/4
Flanged Bronze	4 – 3/8 × 1 1/4	4 – 1/2 × 1 1/2	4 – 5/8 × 1 3/4	4 – 5/8 × 13/4	4 – 3/4 × 2	4 – 3/4 × 2 1/4
Flanged Ball	4 – 3/8 × 1 1/4	4 – 1/2 × 1 1/2	4 – 5/8 × 1 3/4	4 – 5/8 × 13/4	4 – 3/4 × 2 1/2	4 – 3/4 × 2 3/4
Flanged Roller		4 – 1/2 × 2 1/2	4 – 1/2 × 2 1/2	4 – 5/8 × 3	4 – 3/4 × 3	4 – 3/4 × 3 1/4
Pillow Block Bronze	2 – 3/8 × 1 1/2	2 – 1/2 × 1 3/4	2 – 5/8 × 2	2 – 5/8 × 2 1/4	2 – 3/4 × 2 1/2	2 – 7/8 × 2 3/4
Pillow Block Ball	2 – 3/8 × 1 3/4	2 – 1/2 × 2 1/4	2 – 5/8 × 2 1/2	2 – 5/8 × 2 3/4	2 – 7/8 × 3 1/2	2 – 7/8 × 3 3/4
Pillow Block, Roller		2 – 1/2 × 2 1/4	2 – 5/8 × 2 1/2	2 – 5/8 × 2 3/4	2 – 3/4 × 3	2 – 7/8 × 3 1/2
Bearings, Thrust						
Type "E" Roller		4 – 1/2 × 2 3/4	4 – 1/2 × 2 3/4	4 – 5/8 × 3 1/4	4 – 3/4 × 3 1/2	4 – 3/4 × 3 3/4
Coupling Bolts						
	3/8 × 2 1/16	1/2 × 3	5/8 × 3 5/8	5/8 × 4 3/8	3/4 × 5 – 3" Pipe 3/4 × 5 1/2 – 4" Pipe	7/8 × 5 1/2
Seals, Shafts						
Flanged Gland		4 – 1/2 × 1 1/2	4 – 5/8 × 1 1/2	4 – 5/8 × 1 1/2	4 – 3/4 × 1 3/4	4 – 3/4 × 1 3/4
Plate w/Ball or Bronze		4 – 1/2 × 2	4 – 5/8 × 2 1/4	4 – 5/8 × 2 1/4	4 – 3/4 × 3	4 – 3/4 × 3 1/2
Plate w/Roller		4 – 1/2 × 3	4 1/2 × 3	4 – 5/8 × 3 1/2	4 – 3/4 × 3 1/2	4 – 3/4 × 4
Split Gland		2 – 1/2 × 1 1/2	2 – 1/2 × 1 1/2	2 – 5/8 × 1 3/4	2 – 5/8 × 1 3/4	2 – 3/4 × 2 1/4
Waste Pack, w/Ball or Bronze		4 – 1/2 × 3 1/2	4 – 5/8 × 3 1/2	4 – 5/8 × 4	4 – 3/4 × 4	4 – 3/4 × 5
Waste Pack, w/Roller		4 – 1/2 × 4	4 – 1/2 × 4	4 – 5/8 × 4 1/2	4 – 3/4 × 5	4 – 3/4 × 5 1/2

All other bolts hex head cap screws with hex nuts and lock washers.



Pipe Sizes, Dimensions and Weights

Nominal Pipe Size	Outside Diameter	I.P.S. Schedule			Wall	Inside Diameter	Wt./Ft. (lb)	Nominal Pipe Size	Outside Diameter	I.P.S. Schedule			Wall	Inside Diameter	Wt./Ft. (lb)			
1/8	.405		10S		.049	.307	.1863	3	3.500		5S		.083	3.334	3.029			
		40	40S	Standard	.068	.269	.2447				10S		.120	3.260	4.332			
		80	80S	Extra Heavy	.095	.215	.3145			40	40S	Standard	.216	3.068	7.576			
1/4	.540		10S		.065	.410	.3297			80	80S	Extra Heavy	.300	2.900	10.25			
		40	40S	Standard	.088	.364	.4248			160			.438	2.624	14.32			
		80	80S	Extra Heavy	.119	.302	.5351					XX Heavy	.600	2.300	18.58			
3/8	.675		10S		.065	.545	.4235		3 1/2	4.000		5S		.083	3.834	3.472		
		40	40S	Standard	.091	.493	.5676					10S		.120	3.760	4.973		
		80	80S	Extra Heavy	.126	.423	.7388				40	40S	Standard	.226	3.548	9.109		
1/2	.840		5S		.065	.710	.5383				4	4.500		5S		.083	4.334	3.915
			10S		.083	.674	.6710							10S		.120	4.260	5.613
		40	40S	Standard	.109	.622	.8510						40	40S	Standard	.237	4.026	10.79
		80	80S	Extra Heavy	.147	.546	1.088	80	80S	Extra Heavy			.337	3.826	14.98			
		160			.187	.466	1.304	120					.438	3.624	19.00			
		XX Heavy	.294	.252	1.714	160			.531	3.438			22.51					
3/4	1.050		5S		.065	.920	.6838	5	5.563				5S		.109	5.345	6.349	
			10S		.083	.884	.8572						10S		.134	5.295	7.770	
		40	40S	Standard	.113	.824	1.131			40			40S	Standard	.258	5.047	14.62	
		80	80S	Extra Heavy	.154	.742	1.474			80			80S	Extra Heavy	.375	4.813	20.78	
		160			.218	.614	1.937			120			.500	4.563	27.04			
		XX Heavy	.308	.434	2.441	160					.625	4.313	32.96					
1	1.315		5S		.065	1.185	.8678			6	6.625		5S		.109	6.407	7.585	
			10S		.109	1.097	1.404						10S		.134	6.357	9.289	
		40	40S	Standard	.133	1.049	1.679					40	40S	Standard	.280	6.065	18.97	
		80	80S	Extra Heavy	.179	.957	2.172					80	80S	Extra Heavy	.432	5.761	28.57	
		160			.250	.815	2.844	120					.562	5.491	36.39			
		XX Heavy	.358	.599	3.659	160			.718			5.189	45.30					
1 1/4	1.660		5S		.065	1.530	1.107	8	8.625				5S		.109	8.407	9.914	
			10S		.109	1.442	1.806						10S		.148	8.329	13.40	
		40	40S	Standard	.140	1.380	2.273					20			.250	8.125	22.36	
		80	80S	Extra Heavy	.191	1.278	2.997					30			.277	8.071	24.70	
		160			.250	1.160	3.765			40	40S	Standard	.322	7.981	28.55			
		XX Heavy	.382	.896	5.214	60					.406	7.813	35.64					
1 1/2	1.900		5S		.065	1.770	1.274			8	8.625	80	80S	Extra Heavy	.500	7.625	43.39	
			10S		.109	1.682	2.085					100			.593	7.439	50.87	
		40	40S	Standard	.145	1.610	2.718					120			.718	7.189	60.63	
		80	80S	Extra Heavy	.200	1.500	3.631					140			.812	7.001	67.76	
		160			.281	1.338	4.859					XX Heavy	.875	6.875	72.42			
		XX Heavy	.400	1.100	6.408	160			.906			6.813	74.69					
2	2.375		5S		.065	2.245	1.604	10	10.750				5S		.134	10.482	15.19	
			10S		.109	2.157	2.638						10S		.165	10.420	18.70	
		40	40S	Standard	.154	2.067	3.653					20			.250	10.250	28.04	
		80	80S	Extra Heavy	.218	1.939	5.022					30			.307	10.136	34.24	
		160			.343	1.689	7.444			40	40S	Standard	.365	10.020	40.48			
		XX Heavy	.436	1.503	9.029	60	80S			Extra Heavy	.500	9.750	54.74					
2 1/2	2.875		5S		.083	2.709	2.475			10	10.750	80			.593	9.564	64.33	
			10S		.120	2.635	3.531					100			.718	9.224	76.93	
		40	40S	Standard	.203	2.469	5.793					120			.843	9.064	89.20	
		80	80S	Extra Heavy	.276	2.323	7.661					140			1.000	8.750	104.1	
		160			.375	2.125	10.01	160					1.125	8.500	115.7			
		XX Heavy	.552	1.771	13.69													

NOTE: Weights shown are in pounds per foot, based on the average wall of the pipe. The following formula was used in calculating the weight per foot.

W = 10.68 (D — t)
W = Weight in pounds per foot (to 4 digits)
D = Outside Diameter in inches (to 3 decimal places)
t = Wall thickness in decimals (to 3 decimal places)

All weights are carried to four digits only, the fifth digit being carried forward if five or over, or dropped if under five.

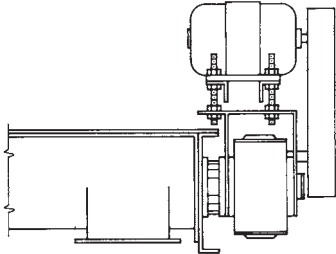
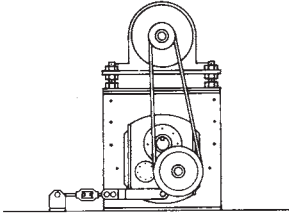
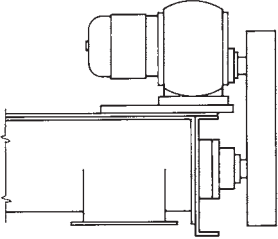
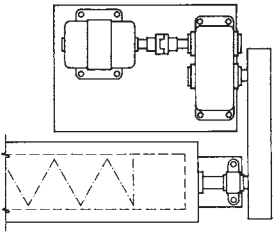
Typical Drive Arrangements



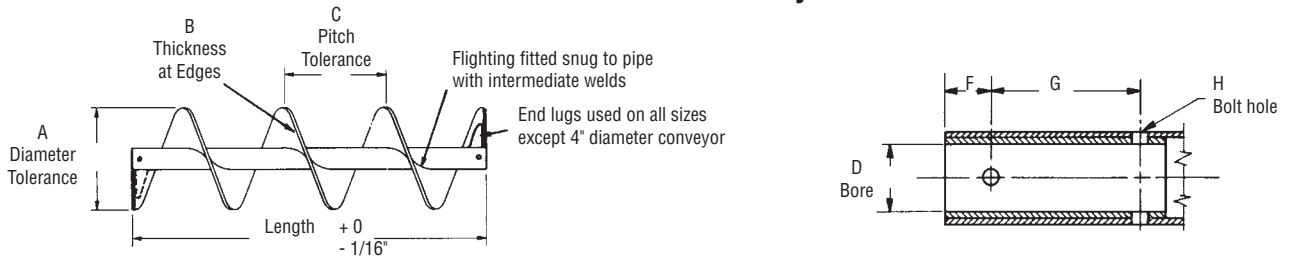
The most common types of drives for Screw Conveyors are illustrated below.

In addition to those shown, other types available are: variable speed drives, hydraulic drives, and take-off drives for connection to other equipment.

For special drive requirements, consult our Engineering Department.

<p>SCREW DRIVER REDUCER</p>	 <p>(Side View)</p>	<p>Reducer mounts on trough end, and is directly connected to the conveyor screw and includes integral thrust bearing, seal gland, and drive shaft. Motor mount may be positioned at top, either side, or below. Separate drive shaft, end bearing, and seal are not required.</p>
<p>SHAFT MOUNTED REDUCER</p>	 <p>(End View)</p>	<p>Reducer mounts on conveyor drive shaft. Motor and "V"-Belt drive may be in any convenient location. The torque arm may be fastened to the floor, or fitted to trough end. Requires extended drive shaft, end bearing, and seal.</p> <p>Note: Requires thrust unit or collars to hold thrust.</p>
<p>GEARMOTOR DRIVE</p>	 <p>(Side View)</p>	<p>Integral motor-reducer with chain drive to conveyor drive shaft. Usually mounted to top of trough by means of an adapter plate.</p>
<p>BASE TYPE REDUCER DRIVE</p>	 <p>(Top View)</p>	<p>Motor direct-coupled to base type reducer, with chain drive to conveyor drive shaft. Usually mounted on floor or platform as close as possible to conveyor.</p>

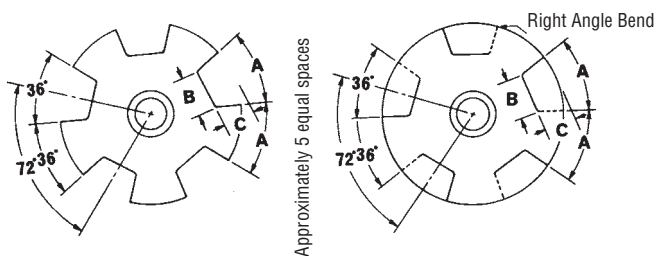
Helicoid Screw Conveyors



Listed Screw Diameter and Pitch	Coupling Diameter	Size Designation	Pipe Size Schedule 40	Length Feet and Inches	A		B		C		D		F	G	H
					Diameter Tolerance		Thickness		Pitch Tolerance		Bushing Bore Inside Diameter				
					Plus	Minus	Inner Edge	Outer Edge	Plus	Minus	Min.	Max.			
4	1	4H206	1 1/4	9 - 10 1/2	1/16	1/8	3/16	3/32	1/2	1/4	1.005	1.016	1/2	2	13/32
6	1 1/2	6H304	2	9 - 10	1/16	3/16	1/8	1/16	1/2	1/4	1.505	1.516	7/8	3	17/32
6	1 1/2	6H308	2	9 - 10	1/16	3/16	1/4	1/8	3/4	1/4	1.505	1.516	7/8	3	17/32
6	1 1/2	6H312	2	9 - 10	1/16	3/16	3/8	3/16	3/4	1/4	1.505	1.516	7/8	3	17/32
9	1 1/2	9H306	2	9 - 10	1/16	3/16	3/16	3/32	3/4	1/4	1.505	1.516	7/8	3	17/32
9	1 1/2	9H312	2	9 - 10	1/16	3/16	3/8	3/16	3/4	1/4	1.505	1.516	7/8	3	17/32
9	2	9H406	2 1/2	9 - 10	1/16	3/16	3/16	3/32	3/4	1/4	2.005	2.016	7/8	3	21/32
9	2	9H412	2 1/2	9 - 10	1/16	1/4	3/8	3/16	3/4	1/4	2.005	2.016	7/8	3	21/32
9	2	9H414	2 1/2	9 - 10	1/16	1/4	7/16	7/32	3/4	1/4	2.005	2.016	7/8	3	21/32
10	1 1/2	10H306	2	9 - 10	1/16	3/16	3/16	3/32	3/4	1/4	1.505	1.516	7/8	3	17/32
10	2	10H412	2 1/2	9 - 10	1/16	1/4	3/8	3/16	3/4	1/4	2.005	2.016	7/8	3	21/32
12	2	12H408	2 1/2	11 - 10	1/8	5/16	1/4	1/8	1	1/4	2.005	2.016	7/8	3	21/32
12	2	12H412	2 1/2	11 - 10	1/8	5/16	3/8	3/16	1	1/4	2.005	2.016	7/8	3	21/32
12	2 7/16	12H508	3	11 - 9	1/8	5/16	1/4	1/8	1	1/4	2.443	2.458	15/16	3	21/32
12	2 7/16	12H512	3	11 - 9	1/8	5/16	3/8	3/16	1	1/4	2.443	2.458	15/16	3	21/32
12	3	12H614	3 1/2	11 - 9	1/8	3/8	7/16	7/32	1	1/4	3.005	3.025	1	3	25/32
14	2 7/16	14H508	3	11 - 9	1/8	5/16	1/4	1/8	1	1/4	2.443	2.458	15/16	3	21/32
14	3	14H614	3 1/2	11 - 9	1/8	3/8	7/16	7/32	1	1/4	3.005	3.025	1	3	25/32
16	3	16H610	3 1/2	11 - 9	1/8	3/8	5/16	5/32	1 1/2	1/4	3.005	3.025	1	3	25/32
16	3	16H614	4	11 - 9	1/8	3/8	7/16	7/32	1 1/2	1/4	3.005	3.025	1	3	25/32

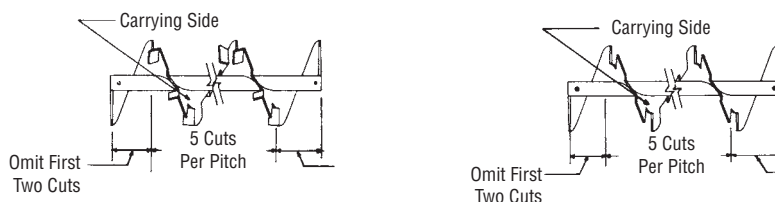
NOTE: All dimensions in inches.

Cut Flight / Cut & Folded Flight Conveyors

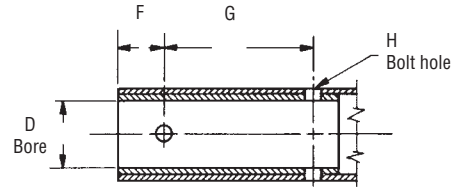
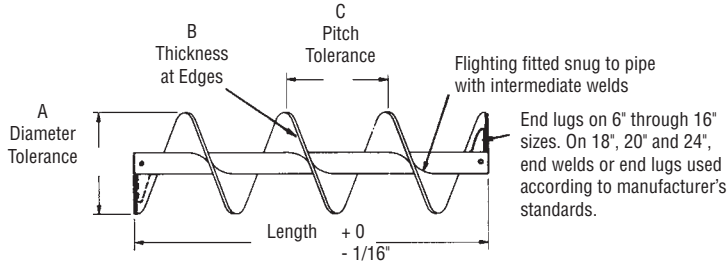


Screw Diameter	A	B	C
4	1 3/8	1	5/8
6	2	1 1/2	7/8
9	3	2 1/8	1 1/2
10	3 3/8	2 1/4	1 3/4
12	4	2 3/4	2
14	4 5/8	3 1/8	2 1/2
16	5 1/4	3 1/2	3
18	6	3 7/8	3 3/8
20	6 5/8	4 1/4	3 7/8
24	7 7/8	4 7/8	4 7/8

Depth of cut "C" is one half the flight width for normal maximum pipe size. Lengths "A" and "B" are calculated from the developed O.D. for standard pitch.



Sectional Screw Conveyors



Listed Screw Diameter and Pitch	Coupling Diameter	Size Designation	Pipe Size Schedule 40	Length Feet and Inches	A		B	C		D		F	G	H
					Diameter Tolerance			Pitch Tolerance	Bushing Bore Inside Diameter					
					Plus	Minus	Plus		Minus	Min.	Max.	Spacing 1st Bolt Hole	Centers 2nd Bolt Hole	Nominal Bolt Hole Size
6	1 1/2	6S312	2	9 - 10	1/16	3/16	3/16	3/8	1/4	1.505	1.516	7/8	3	17/32
	1 1/2	9S312	2	9 - 10	1/16	3/16	3/16	1/2	1/4	1.505	1.516	7/8	3	17/32
9	2	9S412	2 1/2	9 - 10	1/16	3/16	3/16	1/2	1/4	2.005	2.016	7/8	3	21/32
	2	9S416	2 1/2	9 - 10	1/16	1/4	1/4	1/2	1/4	2.005	2.016	7/8	3	21/32
10	2	10S412	2 1/2	9 - 10	1/16	3/16	3/16	1/2	1/4	2.005	2.016	7/8	3	21/32
12	2	12S412	2 1/2	11 - 10	1/8	5/16	3/16	3/4	1/4	2.005	2.016	7/8	3	21/32
	2 7/16	12S512	3	11 - 9	1/8	5/16	3/16	3/4	1/4	2.443	2.458	15/16	3	21/32
	2 7/16	12S516	3	11 - 9	1/8	5/16	1/4	3/4	1/4	2.443	2.458	15/16	3	21/32
	3	12S616	3 1/2	11 - 9	1/8	5/16	1/4	3/4	1/4	3.005	3.025	1	3	25/32
	3	12S624	3 1/2	11 - 9	1/8	3/8	3/8	3/4	1/4	3.005	3.025	1	3	25/32
14	2 7/16	14S512	3	11 - 9	1/8	5/16	3/16	3/4	1/4	2.443	2.458	15/16	3	21/32
	3	14S616	3 1/2	11 - 9	1/8	5/16	1/4	3/4	1/4	3.005	3.025	1	3	25/32
	3	14S624	3 1/2	11 - 9	1/8	3/8	3/8	3/4	1/4	3.005	3.025	1	3	25/32
16	3	16S612	3 1/2	11 - 9	1/8	3/8	3/16	3/4	1/4	3.005	3.025	1	3	25/32
	3	16S616	3 1/2	11 - 9	1/8	3/8	1/4	3/4	1/4	3.005	3.025	1	3	25/32
	3	16S624	3 1/2	11 - 9	1/8	3/8	3/8	3/4	1/4	3.005	3.025	1	3	25/32
	3	16S632	3 1/2	11 - 9	1/8	1/2	1/2	3/4	1/4	3.005	3.025	1	3	25/32
18	3	18S612	3 1/2	11 - 9	3/16	3/8	3/16	3/4	1/2	3.005	3.025	1	3	25/32
	3	18S616	3 1/2	11 - 9	3/16	3/8	1/4	3/4	1/2	3.005	3.025	1	3	25/32
	3	18S624	3 1/2	11 - 9	3/16	3/8	3/8	3/4	1/2	3.005	3.025	1	3	25/32
	3	18S632	3 1/2	11 - 9	3/16	1/2	1/2	3/4	1/2	3.005	3.025	1	3	25/32
20	3	20S612	3 1/2	11 - 9	3/16	3/8	3/16	7/8	1/2	3.005	3.025	1	3	25/32
	3	20S616	3 1/2	11 - 9	3/16	3/8	1/4	7/8	1/2	3.005	3.025	1	3	25/32
	3	20S624	3 1/2	11 - 9	3/16	3/8	3/8	7/8	1/2	3.005	3.025	1	3	25/32
24	3 7/16	24S712	4	11 - 8	3/16	3/8	3/16	7/8	1/2	3.443	3.467	1 1/2	4	29/32
	3 7/16	24S716	4	11 - 8	3/16	3/8	1/4	7/8	1/2	3.443	3.467	1 1/2	4	29/32
	3 7/16	24S724	4	11 - 8	3/16	3/8	3/8	7/8	1/2	3.443	3.467	1 1/2	4	29/32
	3 7/16	24S732	4	11 - 8	3/16	1/2	1/2	7/8	1/2	3.443	3.467	1 1/2	4	29/32

NOTE: All dimensions in inches.

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Required Information

- Screw diameter
- Shaft diameter
- Material component group
- Unusual material characteristics

Conveyor Screws

Standard length conveyor screws should be used whenever possible to reduce the number of hanger bearings required.

The recommended screws listed in the Component Series Table are standard helicoid and sectional screw conveyors. The use of helicoid or sectional conveyors is largely a matter of individual preference.

Right hand screw conveyors pull material toward the end which is being rotated in a clockwise direction. If the rotation is reversed (counterclockwise), the material is pushed away from that end.

In left hand screw conveyors, the material flow is opposite to that of right hand screws, the direction of rotation being unchanged.

To determine hand of screw see pages H-37 and H-38.

The material is carried on one face of the conveyor flighting in conveyors which are required to transport material in one direction, therefore, conveyor end lugs are located on the opposite face to facilitate unimpeded flow of the material. Conveyor sections must be installed in such a manner that all end lugs are toward the inlet end of the conveyor. Conveyor sections must not be turned end for end without reversing the direction of rotation, or conversely, the direction of rotation must not be reversed without turning the conveyor sections end for end.

Requirements for reversible conveyor screws intended for material transport in either direction should be referred to our Engineering Department.

Flighting should be omitted from the conveyor pipe over the last discharge opening to ensure complete discharge of material without carryover.

Continuity of material flow at hanger points is accomplished by opposing adjacent flight ends approximately 180°. (As close to 180° as the predrilled holes will allow.)

Conveyor Trough and Tubular Housing

Standard trough and housing sections are available in five, six, ten, and 12 foot lengths. Standard five and six foot lengths should be used when connecting flanges coincide with discharge openings or hanger bearings.

Shafts

The primary consideration in determining the type and size of coupling and drive shafts is whether the shafts selected are adequate to transmit the horsepower required, including any overload. Normally, cold-rolled shafts are adequate. However, high-tensile shafts may be required due to torque limitations. Also, stainless steel shafts may be necessary when corrosive or contaminable materials are to be handled. Conveyors equipped with non-lubricated hard iron hanger bearings require hardened coupling shafts. Specific shaft size determination is covered in the Torsional Rating Section, page H-26.

Shaft Seals

Several conveyor end seal types are available to prevent contamination of the conveyed material or to prevent the escape of material from the system.

Bearings

Hanger Bearing. The purpose of hanger bearings is to provide intermediate support when multiple screw sections are used. Hanger bearings are designed primarily for radial loads. Therefore, adequate clearance should be allowed between the bearings and the conveyor pipe ends to prevent damage by the thrust load which is transmitted through the conveyor pipe.

The hanger bearing recommendations listed in the Material Characteristic Tables are generally adequate for the material to be handled. Often, however, unusual characteristics of the material or the conditions under which the conveyor must operate make it desirable to use special bearing materials. Regarding the use of special bearing materials, consult our Engineering Department.

End Bearings. Several end bearing types are available, and their selection depends on two basic factors: Radial load and thrust load. The relative values of these loads determines end bearing types.

Radial load is negligible at the conveyor tail shaft. However, drive ends (unless integrated with the conveyor end plate) are subject to radial loading due to overhung drive loads, such as chain sprockets or shaft-mounted speed reducers. Screw Conveyor Drive Reducers at the drive end will adequately carry both thrust and radial loads.

Discharge Spouts and Gates

Standard discharge spouts and gates are available for either conveyor trough or tubular housing in several designs, operated either manually or by remote controls.

In installations where it is possible to overfill the device to which material is being transported, an additional overflow discharge opening or overflow relief device should be provided. Consult our Engineering Department for suggested electrical interlock and safety devices to prevent overflow or damage to equipment.

It is sometimes found that the material characteristics are such that standard component specifications are inadequate. Should unusual material characteristics or severe conditions exist, our Engineering Department should be consulted.

Conveyor Ends

A complete line of conveyor ends are available as standard for either conveyor trough or tubular housing with a choice of many bearing types and combinations.

Special Applications

More common of the unusual material characteristics which require other than the recommended components are:

Corrosive Materials. Components may be fabricated from alloys not affected by the material or may be coated with a protective substance.

Contaminable Materials. Require the use of oil impregnated, sealed, or dry type hanger bearings. End shafts should be sealed to prevent entrance of contaminants from the outside. Due to the necessity for frequent cleaning conveyor components should be designed for convenient disassembly.

Abrasive Materials. These materials may be handled in conveyors, troughs, or housings constructed of abrasion resistant alloys with hard surfaced screws. Lining of all exposed surfaces with rubber or special resins also materially reduces abrasive damage.

Interlocking or Matting Materials. Conveying with standard components is sometimes possible by the use of special feeding devices at the conveyor inlet.

Hygroscopic Materials. Frequently these materials may be handled successfully in a conveyor which is substantially sealed from the exterior atmosphere. In extreme cases it is necessary to provide jacketed trough or housing with an appropriate circulating medium to maintain the material at an elevated temperature. Purging of the conveyor with a suitable dry gas is also used in some installations.

Viscous or Sticky Materials. Ribbon flight conveyor screws are most frequently used for conveying these materials although standard components may be specially coated to improve the flow of material.

Harmful Vapors or Dusts. These materials may be safely handled in dust sealed trough, plain tubular housing, or gasketed flanged tubular housing with particular attention to shaft sealing. Trough or housing exhaust systems have also been successfully used in some installations.

Blending in Transit. Ribbon, cut flight, paddle, or a combination of these screw types may be designed to produce the desired degree of blending, aeration or mixing.

Explosive Dusts. The danger of this condition may be minimized in most installations by the use of components which are fabricated from non-ferrous materials and proper conveyor sealing techniques observed. Exhaust systems are also advisable for the removal of explosive dusts.

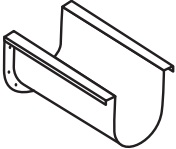
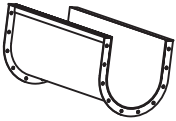
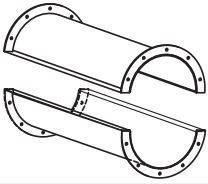
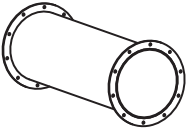
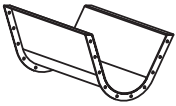
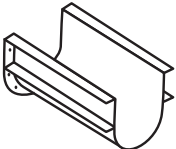
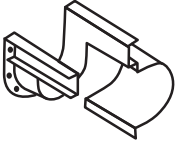
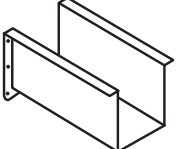
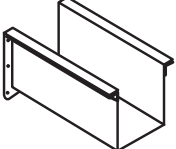
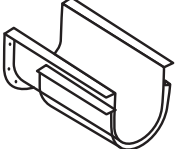
Materials Subject to Packing. This condition requires the use of aerating devices at the conveyor inlet when materials are pulverulent and a special feeder device when material particles are large or fibrous.

Materials which are Fluid when Aerated. This condition may be used to advantage in some installations by declining the conveyor system toward the discharge end.

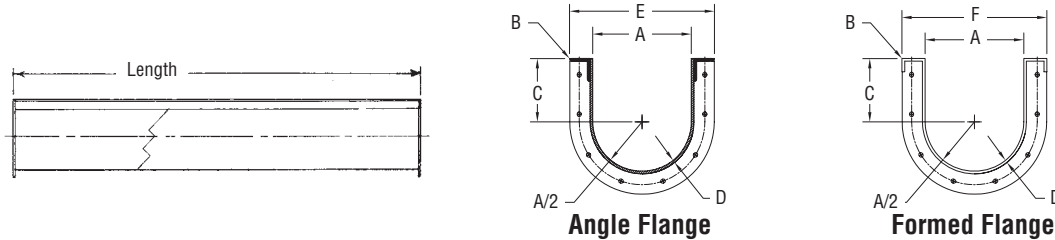
Degradable Materials. Some particles that are easily broken or distorted may usually be handled in screw conveyors by reducing the speed and selecting a larger conveyor size sufficient to deliver the required volume of material.

Elevated Temperature. Components should be fabricated from high temperature alloys. Should the process be such that cooling of the material in the conveyor is permissible, jacketed trough or housing may be used at the inlet end to cool the material and standard components used after the point where material temperature has been reduced to a safe degree.

Conveyor Trough

<p>FORMED FLANGE U-TROUGH</p>		<p>Commonly used economical trough. One piece construction. Standard lengths in stock</p>
<p>ANGLE FLANGE U-TROUGH</p>		<p>Rigid construction. Standard lengths in stock.</p>
<p>FORMED FLANGE TUBULAR U-TROUGH</p>		<p>Loadable to full cross section for feeder applications. Minimizes fall back in inclined applications. Easily taken apart for maintenance. Can be gasketed for dust tight enclosure. Hanger pockets required for use with standard hangers.</p>
<p>SOLID TUBULAR TROUGH</p>		<p>One piece construction for totally enclosed or inclined applications. Hanger pockets required for use with standard hangers.</p>
<p>FLARED TROUGH</p>		<p>Used where materials tend to bridge or when flared inlets are needed.</p>
<p>CHANNEL TROUGH</p>		<p>Adds structural support for longer than standard spans.</p>
<p>DROP BOTTOM TROUGH</p>		<p>Used when complete material clean-out is critical. Can be furnished with hinges either side and bolts or clamps opposite side.</p>
<p>FORMED FLANGE RECTANGULAR TROUGH</p>		<p>Material being conveyed forms its own trough thereby reducing trough wear. One piece construction.</p>
<p>ANGLE FLANGE RECTANGULAR TROUGH</p>		<p>The same as formed flange rectangular except top flanges are made from structural angle.</p>
<p>JACKETED TROUGH</p>		<p>Jacket allows heating or cooling of material being conveyed.</p>

Standard conveyor troughs have a U-shaped steel body with angle iron top flanges or formed top flanges and jig drilled end flanges.



Conveyor Diameter	D Trough Thickness	Angle Flanged Trough				Formed Flanged Trough ▲				A	B	C	E	F		
		Part Number	Weight				Part Number	Weight								
			10' Length	5' Length	12' Length	6' Length		10' Length	5' Length						12' Length	6' Length
4	□ 16 GA.	4CTA16	53	29	—	—	4CTF16	41	23	—	—	5	1 1/4	3 5/8	7 3/4	
	14	4CTA14	60	33	—	—	4CTF14	50	28	—	—				7 13/16	
	12	4CTA12	78	42	—	—	4CTF12	70	38	—	—				7 15/16	
6	□ 16 GA.	6CTA16	67	44	—	—	6CTF16	55	32	—	—	7	1 1/4	4 1/2	9 3/4	
	14	6CTA14	78	49	—	—	6CTF14	67	38	—	—				9 13/16	
	12	6CTA12	101	60	—	—	6CTF12	91	50	—	—				9 15/16	
	10	6CTA10	123	73	—	—	6CTF10	117	64	—	—				10 1/16	
	3/16	6CTA7	164	86	—	—	6CTF7	150	79	—	—				9 7/8	
9	16 GA.	9CTA16	113	66	—	—	9CTF16	83	51	—	—	10	1 1/2	6 1/8	13 1/4	
	□ 14	9CTA14	127	73	—	—	9CTF14	99	59	—	—				13 5/16	
	12	9CTA12	156	87	—	—	9CTF12	132	75	—	—				13 7/16	
	10	9CTA10	176	102	—	—	9CTF10	164	91	—	—				13 9/16	
	3/16	9CTA7	230	124	—	—	9CTF7	214	116	—	—				13 3/8	
1/4	9CTA3	286	152	—	—	9CTF3	276	147	—	—	13 1/2					
10	16 GA.	10CTA16	118	69	—	—	10CTF16	88	54	—	—	11	1 1/2	6 3/8	14 1/4	
	□ 14	10CTA14	133	76	—	—	10CTF14	105	62	—	—				14 5/16	
	12	10CTA12	164	92	—	—	10CTF12	140	80	—	—				14 7/16	
	10	10CTA10	178	102	—	—	10CTF10	167	91	—	—				14 9/16	
	3/16	10CTA7	233	131	—	—	10CTF7	217	123	—	—				14 3/8	
	1/4	10CTA3	306	163	—	—	10CTF3	296	158	—	—				14 1/2	
12	□ 12 GA.	12CTA12	197	113	236	135	12CTF12	164	95	197	114	13	2	7 3/4	17 7/16	
	10	12CTA10	234	133	281	160	12CTF10	187	117	224	140				17 9/16	
	3/16	12CTA7	294	164	353	197	12CTF7	272	150	326	180				17 3/8	
	1/4	12CTA3	372	203	446	244	12CTF3	357	194	428	233				17 1/2	
14	□ 12 GA.	14CTA12	214	121	257	145	14CTF12	183	102	219	122	15	2	9 1/4	19 7/16	
	10	14CTA10	258	143	309	172	14CTF10	207	127	248	152				19 9/16	
	3/16	14CTA7	328	180	394	216	14CTF7	304	168	365	202				19 3/8	
	1/4	14CTA3	418	224	501	269	14CTF3	403	215	483	258				19 1/2	
16	□ 12 GA.	16CTA12	238	133	285	160	16CTF12	206	107	247	128	17	2	10 5/8	21 7/16	
	10	16CTA10	288	159	345	191	16CTF10	234	144	281	173				21 9/16	
	3/16	16CTA7	368	200	442	240	16CTF7	345	188	414	226				21 3/8	
	1/4	16CTA3	471	243	565	291	16CTF3	455	228	546	273				21 1/2	
18	□ 12 GA.	18CTA12	252	159	302	191	18CTF12	240	133	288	160	19	2 1/2	12 1/8	24 7/16	
	10	18CTA10	353	170	423	204	18CTF10	269	165	323	198				24 9/16	
	3/16	18CTA7	444	243	533	291	18CTF7	394	217	473	260				24 3/8	
	1/4	18CTA3	559	298	671	358	18CTF3	520	275	624	330				24 1/2	
20	□ 10 GA.	20CTA10	383	228	460	274	20CTF10	296	190	355	228	21	2 1/2	13 1/2	26 9/16	
	3/16	20CTA7	484	271	581	325	20CTF7	434	247	521	296				26 3/8	
	1/4	20CTA3	612	334	734	401	20CTF3	573	315	687	378				26 1/2	
24	□ 10 GA.	24CTA10	443	255	531	306	24CTF10	384	227	461	272	25	2 1/2	16 1/2	30 9/16	
	3/16	24CTA7	563	319	676	383	24CTF7	514	293	617	352				30 3/8	
	1/4	24CTA3	717	363	860	435	24CTF3	678	339	813	406				30 1/2	

□ Standard Gauge Bolt Patterns on page H-41

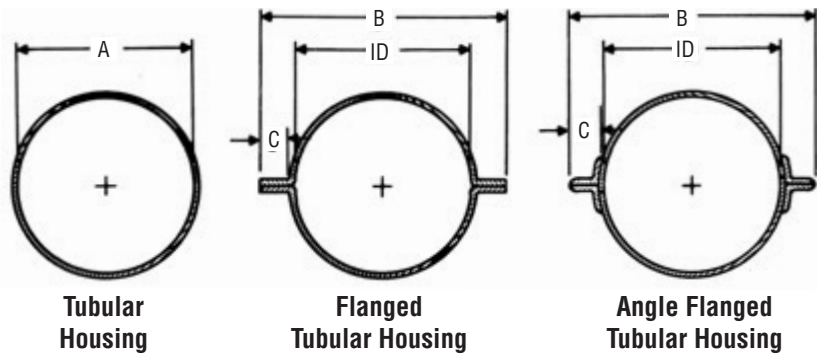
▲ Double formed flange standard on all sizes through 10 ga.

All troughs available in other materials such as stainless, aluminum, abrasion resistant, etc.

Tubular Housing



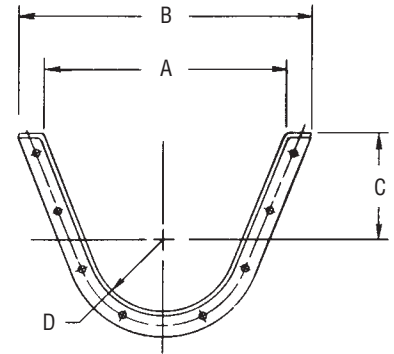
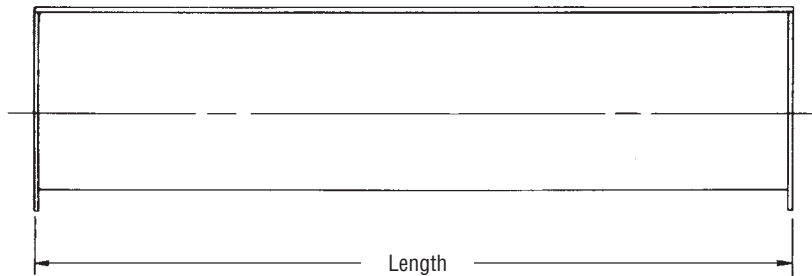
Tubular conveyor housings are inherently dust and weather-tight, and may be loaded to a full cross section. Conveyors with tubular housings are rigid and are highly suitable for conveying material on an incline. Three types shown are available.



Conveyor Diameter	Trough Thickness	Tubular Housing				Formed Flanged		Angle Flanged		A	B	C
		Part Number	Weight		Part Number	Weight	Part Number	Weight				
			10' Length	5' Length		10' Length		10' Length				
4	□ 16 GA.	4CHT16			4CHT16-F	43	4CHT16-A	81	5	7 1/8	1	
	14	4CHT14	60	31	4CHT14-F	53	4CHT14-A	89				
	12	4CHT12			4CHT12-F	74	4CHT12-A	106				
6	□ 16 GA.	6CHT16	50	27	6CHT16-F	60	6CHT16-A	110	7	9 5/8	1 1/4	
	14	6CHT14	62	33	6CHT14-F	75	6CHT14-A	122				
	12	6CHT12	85	44	6CHT12-F	103	6CHT12-A	145				
	10	6CHT10	109	56	6CHT10-F	133	6CHT10-A	187				
	3/16	6CHT7	145	74	6CHT7-F	168	6CHT7-A	205				
9	16 GA.	9CHT16	72	39	9CHT16-F	84	9CHT16-A	131	10	12 5/8	1 1/4	
	□ 14	9CHT14	89	47	9CHT14-F	104	9CHT14-A	148				
	12	9CHT12	122	64	9CHT12-F	143	9CHT12-A	181				
	10	9CHT10	155	80	9CHT10-F	182	9CHT10-A	214				
	3/16	9CHT7	208	107	9CHT7-F	245	9CHT7-A	267				
	1/4	9CHT3	275	140	9CHT3-F	324	9CHT3-A	334				
10	16 GA.	10CHT16	79	42	10CHT16-F	91	10CHT16-A	138	11	13 5/8	1 1/4	
	□ 14	10CHT14	97	52	10CHT14-F	112	10CHT14-A	156				
	12	10CHT12	133	70	10CHT12-F	154	10CHT12-A	192				
	10	10CHT10	169	88	10CHT10-F	196	10CHT10-A	228				
	3/16	10CHT7	227	117	10CHT7-F	264	10CHT7-A	286				
	1/4	10CHT3	301	154	10CHT3-F	350	10CHT3-A	360				
12	□ 12 GA.	12CHT12	163	88	12CHT12-F	193	12CHT12-A	235	13	16 1/4	1 1/2	
	10	12CHT10	208	111	12CHT10-F	247	12CHT10-A	280				
	3/16	12CHT7	275	144	12CHT7-F	328	12CHT7-A	347				
	1/4	12CHT3	362	188	12CHT3-F	432	12CHT3-A	434				
14	□ 12 GA.	14CHT12	187	101	14CHT12-F	217	14CHT12-A	259	15	18 1/4	1 1/2	
	10	14CHT10	236	126	14CHT10-F	275	14CHT10-A	308				
	3/16	14CHT7	316	166	14CHT7-F	369	14CHT7-A	388				
	1/4	14CHT3	416	216	14CHT3-F	486	14CHT3-A	488				
16	□ 12 GA.	16CHT12	212	114	16CHT12-F	242	16CHT12-A	310	17	21 1/4	2	
	10	16CHT10	268	142	16CHT10-F	307	16CHT10-A	366				
	3/16	16CHT7	358	187	16CHT7-F	411	16CHT7-A	456				
	1/4	16CHT3	472	244	16CHT3-F	542	16CHT3-A	570				
18	□ 12 GA.	18CHT12	242	133	18CHT12-F	280	18CHT12-A	340	19	23 1/4	2	
	10	18CHT10	304	164	18CHT10-F	352	18CHT10-A	402				
	3/16	18CHT7	405	214	18CHT7-F	471	18CHT7-A	503				
	1/4	18CHT3	533	278	18CHT3-F	621	18CHT3-A	631				
20	□ 10 GA.	20CHT10	335	188	20CHT10-F	381	20CHT10-A	433	21	25 5/16	2	
	3/16	20CHT7	446	237	20CHT7-F	510	20CHT7-A	544				
	1/4	20CHT3	586	307	20CHT3-F	671	20CHT3-A	684				
24	□ 10 GA.	24CHT10	399	215	24CHT10-F	445	24CHT10-A	497	25	29 5/16	2	
	3/16	24CHT7	531	281	24CHT7-F	594	24CHT7-A	629				
	1/4	24CHT3	699	365	24CHT3-F	784	24CHT3-A	797				

□ Standard Gauge Bolt Patterns on page H-42

Flared troughs are used primarily to convey materials which are not free-flowing or which have a tendency to stick to the trough.



Conveyor Diameter	Trough Thickness	Part Number	Weight Per Foot	A	B	C	D	Standard Length Foot
6	□ 14 GA.	6FCT14	9	14	16 5/8	7	3 1/2	10
	12	6FCT12	12		16 3/4			
9	□ 14 GA.	9FCT14	13	18	21 3/16	9	5	10
	12	9FCT12	14		21 1/4			
	10	9FCT10	19		21 1/4			
	3/16	9FCT7	22		21 3/8			
	1/4	9FCT3	25		21 1/2			
12	□ 12 GA.	12FCT12	20	22	26 1/4	10	6 1/2	12
	10	12FCT10	24		26 1/4			
	3/16	12FCT7	32		26 3/8			
	1/4	12FCT3	43		26 1/2			
14	□ 12 GA.	14FCT12	23	24	28 1/4	11	7 1/2	12
	10	14FCT10	27		28 1/4			
	3/16	14FCT7	37		28 3/8			
	1/4	14FCT3	49		28 1/2			
16	□ 12 GA.	16FCT12	25	28	32 1/4	11 1/2	8 1/2	12
	10	16FCT10	31		32 1/4			
	3/16	16FCT7	39		32 3/8			
	1/4	16FCT3	52		32 1/2			
18	□ 12 GA.	18FCT12	27	31	36 1/4	12 1/8	9 1/2	12
	10	18FCT10	35		36 1/4			
	3/16	18FCT7	45		36 3/8			
	1/4	18FCT3	56		36 1/2			
20	□ 10 GA.	20FCT10	36	34	39 1/4	13 1/2	10 1/2	12
	3/16	20FCT7	48		39 3/8			
	1/4	20FCT3	60		39 1/2			
24	□ 10 GA.	24FCT10	41	40	45 1/4	16 1/2	12 1/2	12
	3/16	24FCT7	54		45 3/8			
	1/4	24FCT3	69		45 1/2			

□ Standard Gauge Bolt Patterns on page H-41

Discharges and Gates



Discharge Spout Index

14

TSD

12

Conveyor
Diameter

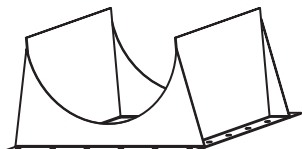

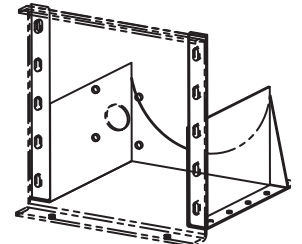
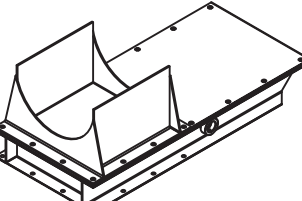
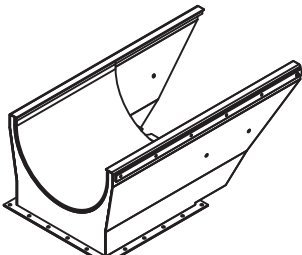
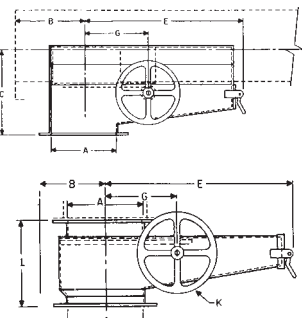
TSD - Plain, Fixed Spout
TSDS - Plain Fixed Spout W/Slide
TSDF - Flush End Spout
RPF - Rack & Pinion/Flat Side

Types

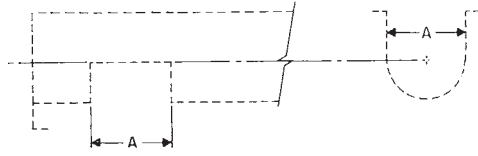
RPF - Rack & Pinion/Flat Slide Dust Tight
RPC - Rack & Pinion/Curved Slide
RPCD - Rack & Pinion/Curved Slide Dust Tight

Spout Thickness

16 - 16 Gauge
14 - 14 Gauge
12 - 12 Gauge
10 - 10 Gauge
7 - 3/16

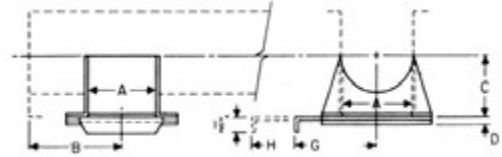
<p>STANDARD DISCHARGE SPOUT</p>		<p>Most commonly used. Flanged hole drilling is per CEMA Standards. Select spout thickness according to trough thickness.</p>
<p>STANDARD DISCHARGE</p>		<p>Standard spout shown above with the addition of the slide and side guides. Select spout thickness according to trough thickness.</p>
<p>FLUSH END DISCHARGE SPOUT</p>		<p>Reduces distance from centerline of discharge to end of the conveyor which eliminates ledge at end of trough and product build-up. Special flush-end trough ends required when this style of discharge is used.</p>
<p>FLAT SLIDE GATE</p>		<p>Rack & pinion type available with hand wheel, rope wheel, pocket wheel and chain. Discharge spout is included when fitted. Flat slide (less rack & pinion) can be furnished with pneumatic, hydraulic, or electric actuators. (Not dust-tight).</p>
<p>CURVED SLIDE GATE</p>		<p>Contoured shape of slide eliminates pocket found in flat slide type. Rack & pinion type available with handwheel, or rope wheel, or pocket wheel with chain. Curved slide (less rack & pinion) can be furnished with pneumatic, hydraulic, or electric actuators. (Standard curved slide gate is not dust-tight.) All curved slide gates should be <u>installed at factory</u>.</p>
<p>DUST TIGHT RACK AND PINION FLAT SLIDE</p>		<p>Dust tight rack and pinions are totally enclosed and can be furnished with either flat or curved slide. Handwheel is normally furnished but is also available with chain or rope wheel.</p>

Plain Opening



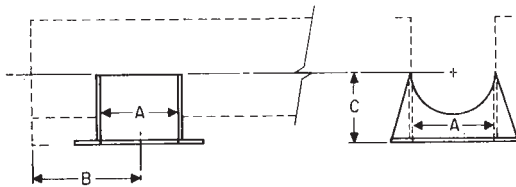
Plain spout openings are cut in the trough permitting free material discharge.

Fixed Spout with Slide Gate



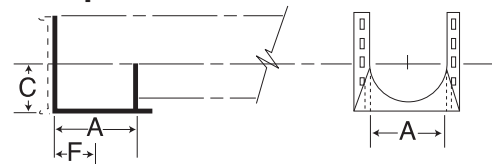
Fixed spouts with slide gates are used where distribution of material is to be controlled. Bolted flange permits slide to be operated from any side

Fixed Spout



Fixed spouts are fabricated in proportion to size and thickness of trough. Can be furnished loose or welded to trough.

Flush End Spout



Flush end discharge spouts are designed for use at the final discharge point. The end of the spout is comprised of a housing end with bottom flange drilled with standard discharge flange bolt pattern. Because it is located at the extreme end of the conveyor, there is no carryover of material past the final discharge point. The flush end arrangement eliminates the unnecessary extension of trough and interior components beyond the actual discharge point.

Screw Diameter	A	B	C	D	G	H	F
4	5	4 1/2	3 3/4	5/16	5 5/8	11	2 1/2
6	7	6	5	5/16	6 5/8	14	3 1/2
9	10	8	7 1/8	5/16	8	19	5
10	11	9	7 7/8	5/16	8 3/8	20	5 1/2
12	13	10 1/2	8 7/8	5/16	10 1/8	24	6 1/2
14	15	11 1/2	10 1/8	5/16	11 1/4	27	7 1/2
16	17	13 1/2	11 1/8	5/16	12 3/8	30	8 1/2
18	19	14 1/2	12 3/8	5/16	13 3/8	33	9 1/2
20	21	15 1/2	13 3/8	3/8	14 3/8	36	10 1/2
24	25	17 1/2	15 3/8	3/8	16 3/8	42	12 1/2

Screw Diameter	Trough Thickness Gauge	Spout and Gate Thickness Gauge	Part Number			Weight		
			Fixed Spout		Flush End Spout	Fixed Spout		Flush End Spout
			Plain	With Slide		Plain	Slide	
4	16 - 14	□ 14	4TSD14	4TSDS14	4TSD14	2	6	1.5
	12	12	4TSD12	4TSDS12	4TSD12	3	7	2.25
6	14 - 12	□ 14	6TSD14	6TSDS14	6TSD14	4	11	3.0
	3/16	12	6TSD12	6TSDS12	6TSD12	6	13	4.50
9	16 - 14 - 12 - 10	□ 14	9TSD14	9TSDS14	9TSD14	8	18	6.0
	3/16 - 1/4	10	9TSD10	9TSDS10	9TSD10	13	22	9.75
10	14 - 12 - 10	□ 14	10TSD14	10TSDS14	10TSD14	10	21	7.5
	3/16 - 1/4	10	10TSD10	10TSDS10	10TSD10	16	27	12.0
12	12 - 10	□ 12	12TSD12	12TSDS12	12TSD12	17	36	12.75
	3/16 - 1/4	3/16	12TSD7	12TSDS7	12TSD7	29	48	21.75
14	12 - 10	□ 12	14TSD12	14TSDS12	14TSD12	22	46	16.50
	3/16 - 1/4	3/16	14TSD7	14TSDS7	14TSD7	38	62	28.50
16	12 - 10	□ 12	16TSD12	16TSDS12	16TSD12	21	49	15.75
	3/16 - 1/4	3/16	16TSD7	16TSDS7	16TSD7	40	68	30.0
18	12 - 10	□ 12	18TSD12	18TSDS12	18TSD12	32	69	24.0
	3/16 - 1/4	3/16	18TSD7	18TSDS7	18TSD7	60	97	45.0
20	10	□ 12	20TSD12	20TSDS12	20TSD12	40	91	30.0
	3/16 - 1/4	3/16	20TSD7	20TSDS7	20TSD7	67	118	50.25
24	10	□ 12	24TSD12	24TSDS12	24TSD12	52	116	39.0
	3/16 - 1/4	3/16	24TSD7	24TSDS7	24TSD7	87	151	65.25

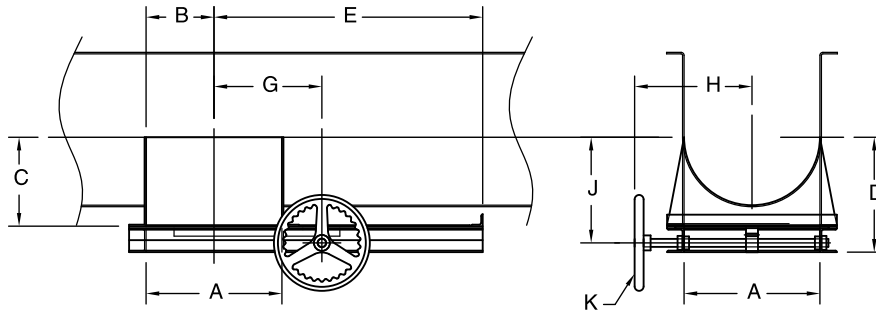
□ Standard Gauge Bolt Patterns on page H-42

Discharge Gates



Rack and Pinion Flat Slide

Flat rack and pinion slide gates can be bolted to standard discharge spouts at any of the four positions desired. Hand wheel is normally furnished but is also available with chain or rope wheel.

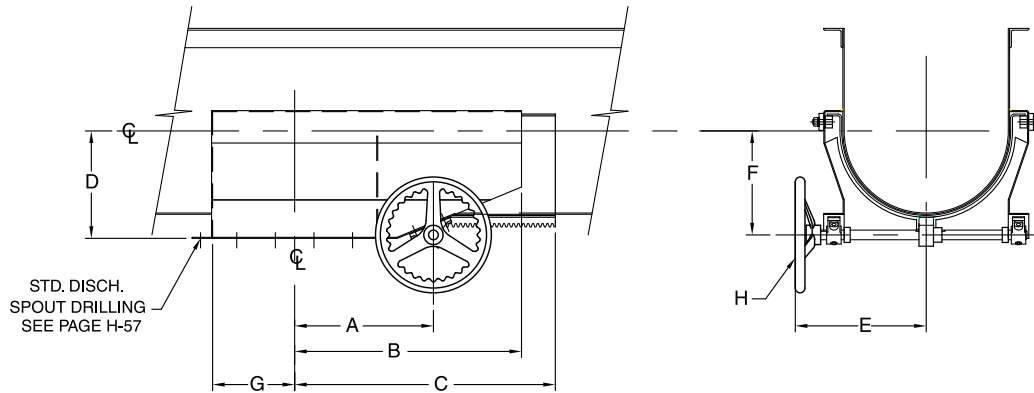


Screw Diameter	A	B	C	D	E	G	H	J	K Diameter
4	5	2 1/2	3 3/4	7	13 1/2	6 1/2	5	5 1/2	12
6	7	3 1/2	5	8 1/4	16	7 1/2	6	6 3/4	12
9	10	5	7 1/8	10 3/8	20 1/4	9	9 1/2	8 7/8	12
10	11	5 1/2	7 7/8	11 1/8	23 1/2	10 1/2	10	9 7/8	12
12	13	6 1/2	8 7/8	12 1/8	25 1/2	11	12 1/4	10 7/8	12
14	15	7 1/2	10 1/8	13 3/8	31 1/4	12 1/2	13 1/4	12	12
16	17	8 1/2	11 1/8	14 3/8	33 5/8	13 1/2	14 1/4	13	12
18	19	9 1/2	12 3/8	15 5/8	37 7/8	14 1/2	15 3/4	14 1/8	12
20	21	10 1/2	13 3/8	16 11/16	40 3/4	15 1/2	16 3/4	15 1/8	12
24	25	12 1/2	15 3/8	18 11/16	46 1/2	17 1/2	18 3/4	17 3/8	12

Screw Diameter	Trough Thickness Gauge	Spout and Gate Thickness Gauge	Part Number Rack and Pinion †	Weight Rack and Pinion
4	16 - 14	□ 14	4RPF14	18
	12	12	4RPF12	21
6	16 - 14 - 12	□ 14	6RPF14	28
	3/16	12	6RPF12	31
9	14 - 12 - 10	□ 14	9RPF14	49
	3/16 - 1/4	10	9RPF10	54
10	14 - 12 - 10	□ 14	10RPF14	56
	3/16 - 1/4	10	10RPF10	62
12	12 - 10	□ 12	12RPF12	94
	3/16 - 1/4	3/16	12RPF7	106
14	12 - 10	□ 12	14RPF12	107
	3/16 - 1/4	3/16	14RPF7	123
16	12 - 10	□ 12	16RPF12	112
	3/16 - 1/4	3/16	16RPF7	131
18*	12 - 10	□ 12	18RPF12	157
	3/16 - 1/4	3/16	18RPF7	185
20*	10	□ 12	20RPF12	185
	3/16 - 1/4	3/16	20RPF7	212
24*	10	□ 12	24RPF12	233
	3/16 - 1/4	3/16	24RPF7	268

- Standard Gauge Bolt Patterns on page H-42
- * Hand Wheels supplied as Standard Assembly
- C Chain Wheel
- R Rope Wheel
- † All Rack and Pinion Gates 18" and Larger Have Double Rack and Pinion

Rack and Pinion Curved Slide



Screw Diameter	Trough Thickness	Spout Thickness	Part Number*	Weight	A	B	C	D	E	F	G	H Diameter
4	14,16 GA.	□ 14 GA.	4RPC14	20	6 1/4	8 3/4	12	3 3/4	6	4 1/2	2 1/2	12
	12 GA.	12 GA.	4RPC12	22						4 5/8		
6	16,14,12 GA.	□ 14 GA.	6RPC14	25	7 1/2	10 1/2	15	5	8	5 1/2	3 1/2	12
	3/16	12 GA.	6RPC12	28						5 5/8		
9	14,12,10 GA.	□ 14 GA.	9RPC14	46	9	15	20 1/2	7 1/8	8 3/4	7	5	12
	3/16,1/4	10 GA.	9RPC10	54						7 1/8		
10	14,12,10 GA.	□ 14 GA.	10RPC14	53	9 1/2	14 1/2	21	7 7/8	9 1/8	7 1/2	5 1/2	12
	3/16,1/4	10 GA.	10RPC10	62						7 5/8		
12	12,10 GA.	□ 12 GA.	12RPC12	81	11 3/8	17 1/2	25 3/4	8 7/8	11	8 1/2	6 1/2	12
	3/16,1/4	3/16	12RPC7	97						8 5/8		
14	10,12 GA.	□ 12 GA.	14RPC12	95	12 7/8	20 1/2	30 1/4	10 1/8	12	9 1/2	7 1/2	12
	3/16,1/4	3/16	14RPC7	114						9 5/8		
16	10,12 GA.	□ 12 GA.	16RPC12	103	14 3/8	23 1/2	36	11 1/8	13	10 1/2	8 1/2	12
	3/16,1/4	3/16	16RPC7	116						10 5/8		
18*	10,12 GA.	□ 12 GA.	18RPC12	157	15 7/8	25 1/2	37 1/4	12 3/8	15 3/8	11 1/2	9 1/2	12
	3/16,1/4	3/16	18RPC7	187						11 5/8		
20*	12 GA.	□ 12 GA.	20RPC12	175	17 3/8	28 1/2	39	13 3/8	16 3/8	12 1/2	10 1/2	12
	3/16,1/4	3/16	20RPC7	208						12 5/8		
24*	10 GA.	□ 12 GA.	24RPC12	220	19 3/8	35 1/2	47	15 3/8	18 3/8	14 1/2	12 1/2	12
	3/16,1/4	3/16	24RPC7	265						14 5/8		

□ Standard Gauge Bolt Patterns on page H-42

* Hand Wheels supplied as Standard Assembly

- C Chain Wheel

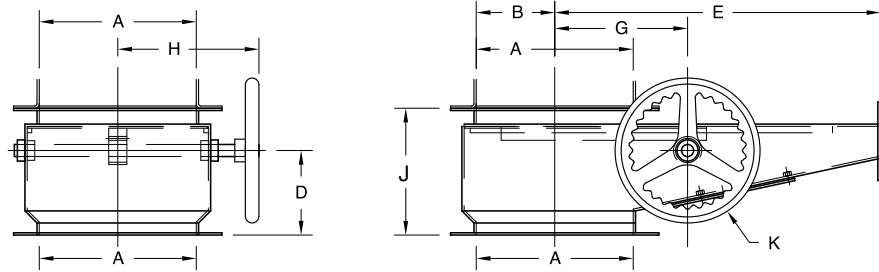
- R Rope Wheel

Discharge Gates

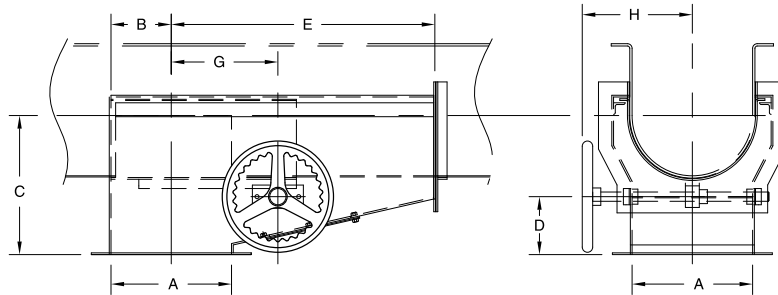


Dust Tight Rack and Pinion Flat Slide

Dust tight rack and pinions are totally enclosed and can be furnished with either flat or curved slide. Hand Wheel is normally furnished but is also available with chain or rope wheel.



Dust Tight Rack and Pinion Curved Slide



Screw Diameter	A	B	C	D	E	G	H	J	K Diameter
4	5	2 1/2	7 1/2	2 1/2	12	6	7	7 1/2	12
6	7	3 1/2	10	4	18 1/2	7 1/2	8	9	12
9	10	5	12 1/2	5	23	9	11	10	12
10	11	5 1/2	13	5	25	10	11 1/2	10 1/2	12
12	13	6 1/2	15	5	28	11 1/2	13	10 1/2	12
14	15	7 1/2	15 1/2	5 1/2	31	12 1/2	14	10 1/2	12
16	17	8 1/2	16 1/2	5 1/2	34	13 1/2	15	10 1/2	12
18	19	9 1/2	18 1/2	6 1/2	38 1/2	15	16 1/2	11 1/2	12
20	21	10 1/2	20	7	40 1/2	16	17 1/2	12	12
24	25	12 1/2	23	8	47 1/2	18	19 1/2	13	12

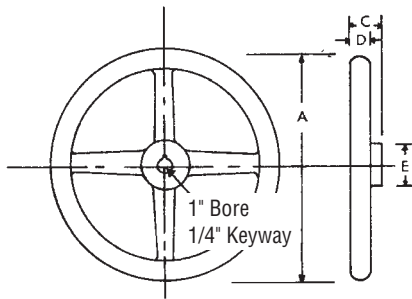
Screw Diameter	Trough Thickness Gauge	Spout and Gate Thickness Gauge	Part Number			
			Flat Slide *	Weight	Curved Slide *	Weight
4	16 - 14	14	4RPF14	27	4RPCD16	30
	12	12	4RPF12	32	4RPCD12	35
6	16 - 14 - 12	14	6RPF14	42	6RPCD16	46
	3/16	12	6RPF12	47	6RPCD12	52
9	14 - 12 - 10	14	9RPF12	74	9RPCD12	81
	3/16 - 1/4	10	9RPF10	81	9RPCD10	89
10	14 - 12 - 10	14	10RPF14	84	10RPCD14	92
	3/16 - 1/4	10	10RPF10	93	10RPCD10	102
12	12 - 10	12	12RPF12	141	12RPCD12	155
	3/16 - 1/4	3/16	12RPF7	158	12RPCD7	174
14	12 - 10	12	14RPF12	160	14RPCD12	176
	3/16 - 1/4	3/16	14RPF7	185	14RPCD7	204
16	12 - 10	12	16RPF12	168	16RPCD12	185
	3/16 - 1/4	3/16	16RPF7	197	16RPCD7	217
18	12 - 10	12	18RPF12	240	18RPCD12	264
	3/16 - 1/4	3/16	18RPF7	277	18RPCD7	305
20	10	12	20RPF12	278	20RPCD12	306
	3/16 - 1/4	3/16	20RPF7	318	20RPCD7	350
24	10	12	24RPF12	350	24RPCD12	385
	3/16 - 1/4	3/16	24RPF7	402	24RPCD7	442

* Hand Wheels supplied as Standard Assembly

- C Chain Wheel

- R Rope Wheel

Flange drilling in standard. See page H-43

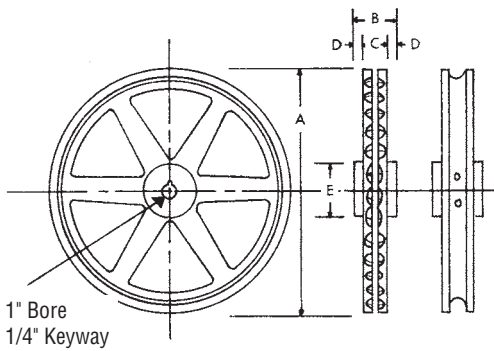


Hand Wheel

Wheel Diameter	Part Number	Weight	C	D	E
12	12HW1	11	2	1 1/8	1 7/8

The hand wheel is regularly furnished to rotate the pinion shaft when the slide gate is readily accessible.

NOTE: Zinc or nickel plated hand wheels available on request.



Pocket Chain Wheel & Rope Wheel

Wheel	Part Number	Weight	A	B	C	D	E
Chain Wheel	20PW1	11	12 3/4	2	1 3/8	5/16	2
Rope Wheel	12RW1	13	12 5/8	2 1/4	1 5/8	1 1/4	1 7/8

Pocket chain and rope wheels are used to rotate pinion shaft where remote operation is desired. It is designed to be used with number 3/16 pocket chain.

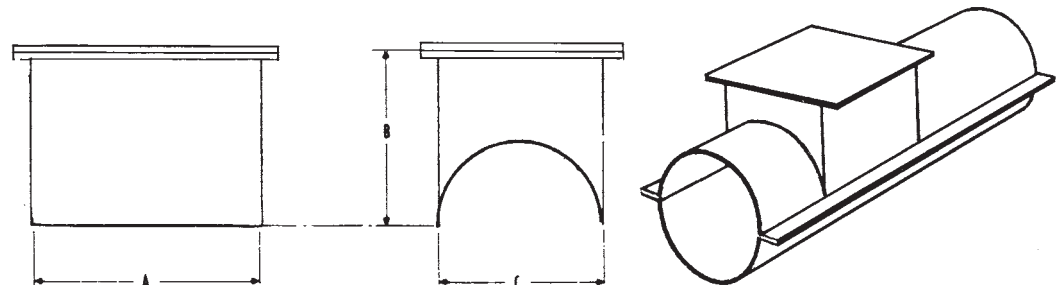
NOTE:

Zinc or nickel plated hand wheels available on request.

316 PC Pocket Chain in Stock.

Hanger Pockets

Hanger pockets are used with tubular trough and are mounted on the trough at bearing connections. The hanger pocket forms a "U" shaped section for a short distance, allowing the use of standard hangers and providing easy access to them.



Conveyor Diameter	Part Number	A	B	C	Weight Each
4	4CPH16	8	3 3/4	5	2
6	6CPH16	12	4 3/4	7	3
9	9CPH14	12	6 3/8	10	4
10	10CPH14	12	6 5/8	11	9
12	12CPH12	18	8	13	18
14	14CPH12	18	9 1/2	15	24
16	16CPH12	18	10 7/8	17	26
18	18CPH12	18	12 3/8	19	55
20	20CPH10	18	13 3/4	21	70
24	24CPH10	18	16 3/4	25	85

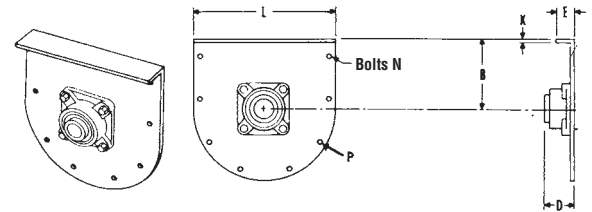
Trough Ends



Trough Ends					
		9	TEF	3	-BB -P
	Conveyor Diameter	Type		Bearing Type	Plate Only
		TE — Outside W/O Feet TEF — Outside W/Feet TEI — Inside TER — Inside Rectangular TEO — Single Bearing Pedestal TEOD — Double Bearing Pedestal FTEF — Outside Flared W/Feet FTE — Outside Flared W/O Feet FTEO — Single Bearing Flared Pedestal FTDO — Flared Discharge End TDO — Outside Discharge End TDI — Inside Discharge End CHTE — Outside Tubular W/O Feet CHTEF — Outside Tubular W/Feet SCD — Dorris Screw Drive		BB - Ball RB - Roller BR - Bronze	
				Coupling Diameter	
				2 — 1"	5 — 2-7/16"
				3 — 1-1/2"	6 — 3"
				4 — 2"	7 — 3-7/16"
	U-TROUGH	TUBULAR TROUGH	FLARED TROUGH	RECTANGULAR TROUGH	
OUTSIDE TROUGH ENDS WITH FEET					Most common type used as trough support is included
OUTSIDE TROUGH ENDS WITHOUT FEET					Trough support not included
INSIDE PATTERN TROUGH ENDS		Available on application	Available on application		Used where space is limited or trough does not have end flange
DISCHARGE TROUGH ENDS		Available on application			For end discharge conveyors. Special flange bearing required
OUTBOARD BEARING TROUGH END SINGLE					Used when compression type packing gland seal or split gland seal required

Outside Less Feet

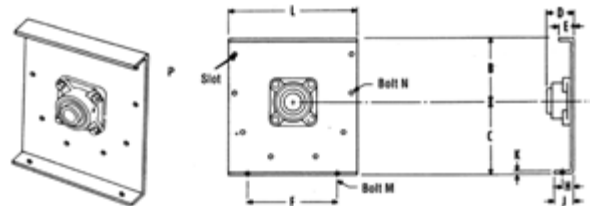
Outside trough ends less feet are used to support end bearing and cover when no trough support is required. Drilling for bronze bearing or flanged ball bearing is standard.



Conveyor Diameter	Shaft Diameter	▲ Part Number	B	D			E	K	L	N	Weight	P Slot
				Friction Bearing	Ball Bearing	Roller Bearing						
4	1	4TE2-*	3 5/8	2 3/16	1 5/8	—	1 7/16	1/4	8 1/8	3/8	3	7/16 × 9/16
6	1 1/2	6TE3-*	4 1/2	3 3/16	2 3/16	3 11/16	1 1/2	1/4	10 1/8	3/8	4	7/16 × 9/16
9	1 1/2	9TE3-*	6 1/8	3 1/4	2 3/16	3 11/16	1 5/8	1/4	13 3/4	3/8	9	7/16 × 9/16
	2	9TE4-*	6 1/8	4 1/4	2 1/2	3 13/16	1 5/8	1/4	13 3/4	3/8	9	
10	1 1/2	10TE3-*	6 3/8	3 1/4	2 3/16	3 11/16	1 3/4	1/4	14 3/4	3/8	11	7/16 × 9/16
	2	10TE4-*	6 3/8	4 1/4	2 1/2	3 13/16	1 3/4	1/4	14 3/4	3/8	11	
12	2	12TE4-*	7 3/4	4 1/4	2 9/16	3 7/8	2	1/4	17 1/4	1/2	20	9/16 × 11/16
	2 7/16	12TE5-*	7 3/4	5 1/4	2 15/16	4 7/16	2	1/4	17 1/4	1/2	20	
	3	12TE6-*	7 3/4	6 1/4	3 3/4	4 15/16	2	1/4	17 1/4	1/2	20	
14	2 7/16	14TE5-*	9 1/4	5 5/16	2 15/16	4 7/16	2	1/4	19 1/4	1/2	35	9/16 × 11/16
	3	14TE6-*	9 1/4	5 5/16	3 3/4	4 15/16	2	1/4	19 1/4	1/2	35	
16	3	16TE6-*	10 5/8	6 5/16	3 13/16	5	2 1/2	5/16	21 1/4	5/8	42	11/16 × 13/16
18	3	18TE6-*	12 1/8	6 3/8	3 13/16	5	2 1/2	3/8	24 1/4	5/8	60	11/16 × 13/16
	3 7/16	18TE7-*	12 1/8	7 3/8	4 5/16	5 9/16	2 1/2	3/8	24 1/4	5/8	60	
20	3	20TE6-*	13 1/2	6 3/8	3 7/8	5 1/16	2 1/2	3/8	26 1/4	5/8	90	11/16 × 13/16
	3 7/16	20TE7-*	13 1/2	7 3/8	4 3/8	5 5/8	2 1/2	3/8	26 1/4	5/8	90	
24	3 7/16	24TE7-*	16 1/2	7 3/8	4 3/8	5 5/8	2 1/2	3/8	30 1/4	5/8	120	11/16 × 13/16

Outside With Feet

Outside trough ends with feet are used to support end bearing, cover and trough. Drilling for bronze or flanged ball bearing is standard.



Conveyor Diameter	Shaft Diameter	▲ Part Number	B	C	D			E	F	H	J	K	L	M	N	Weight	P Slot
					Friction Bearing	Ball Bearing	Roller Bearing										
4	1	4TEF2-*	3 5/8	4 5/8	2 15/16	1 5/8	—	1 7/16	5 3/4	1	1 5/8	1/4	8 1/8	3/8	3/8	4	7/16 × 9/16
6	1 1/2	6TEF3-*	4 1/2	5 5/8	3 15/16	2 3/16	3 11/16	1 1/2	8 1/8	1	1 3/4	1/4	10 1/8	3/8	3/8	7	7/16 × 9/16
9	1 1/2	9TEF3-*	6 1/8	7 7/8	3 15/16	2 3/16	3 11/16	1 5/8	9 3/8	1 1/2	2 5/8	1/4	13 3/4	1/2	3/8	12	7/16 × 9/16
	2	9TEF4-*	6 1/8	7 7/8	4 15/16	2 1/2	3 13/16	1 5/8	9 3/8	1 1/2	2 5/8	1/4	13 3/4	1/2	3/8	12	
10	1 1/2	10TEF3-*	6 3/8	8 7/8	3 15/16	2 3/16	3 11/16	1 3/4	9 1/2	1 3/4	2 7/8	1/4	14 3/4	1/2	3/8	14	7/16 × 9/16
	2	10TEF4-*	6 3/8	8 7/8	4 15/16	2 1/2	3 13/16	1 3/4	9 1/2	1 3/4	2 7/8	1/4	14 3/4	1/2	3/8	14	
12	2	12TEF4-*	7 3/4	9 5/8	5	2 9/16	3 7/8	2	12 1/4	1 5/8	2 3/4	1/4	17 1/4	5/8	1/2	23	9/16 × 11/16
	2 7/16	12TEF5-*	7 3/4	9 5/8	5 1/2	2 15/16	4 7/16	2	12 1/4	1 5/8	2 3/4	1/4	17 1/4	5/8	1/2	23	
	3	12TEF6-*	7 3/4	9 5/8	5 5/8	3 3/4	4 15/16	2	12 1/4	1 5/8	2 3/4	1/4	17 1/4	5/8	1/2	23	
14	2 7/16	14TEF5-*	9 1/4	10 7/8	5 1/2	2 15/16	4 7/16	2	13 1/2	1 5/8	2 7/8	1/4	19 1/4	5/8	1/2	38	9/16 × 11/16
	3	14TEF6-*	9 1/4	10 7/8	5 5/8	3 3/4	4 15/16	2	13 1/2	1 5/8	2 7/8	1/4	19 1/4	5/8	1/2	38	
16	3	16TEF6-*	10 5/8	12	5 11/16	3 13/16	5	2 1/2	14 7/8	2	3 1/4	5/16	21 1/4	5/8	5/8	45	11/16 × 13/16
18	3	18TEF6-*	12 1/8	13 3/8	5 11/16	3 13/16	5	2 1/2	16	2	3 1/4	3/8	24 1/4	5/8	5/8	67	11/16 × 13/16
	3 7/16	18TEF7-*	12 1/8	13 3/8	6 15/16	4 5/16	5 9/16	2 1/2	16	2	3 1/4	3/8	24 1/4	5/8	5/8	67	
20	3	20TEF6-*	13 1/2	15	5 3/4	3 7/8	5 1/16	2 1/2	19 1/4	2 1/4	3 3/4	3/8	26 1/4	3/4	5/8	120	11/16 × 13/16
	3 7/16	20TEF7-*	13 1/2	15	7	4 3/8	5 5/8	2 1/2	19 1/4	2 1/4	3 3/4	3/8	26 1/4	3/4	5/8	120	
24	3 7/16	24TEF7-*	16 1/2	18 1/8	7	4 3/8	5 5/8	2 1/2	20	2 1/2	4 1/8	3/8	30 1/4	3/4	5/8	162	11/16 × 13/16

▲ Can be furnished with CSP, CSW, or CSFP seals

-*BB Ball Bearing
-*BR Bronze Bearing

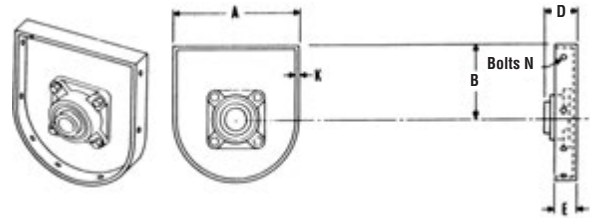
-*RB Roller Bearing
-*Pless Bearing

Trough Ends



Inside

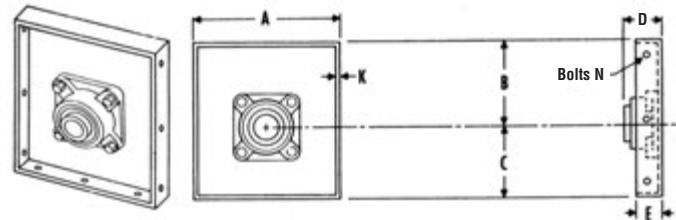
Inside trough ends are used in place of outside type where no trough end flanges are required. Drilling for bronze bearings or flanged ball bearing is standard.



Conveyor Diameter	Shaft Diameter	▲ Part Number	A	B	D			E	K	N	Weight
					Friction Bearing	Ball Bearing	Roller Bearing				
4	1	4TEI2-*	5	3 5/8	2 3/16	1 5/8	—	2	1/4	1/4	3
6	1 1/2	6TEI3-*	7	4 1/2	3 3/16	2 3/16	3 11/16	2	1/4	5/16	5
9	1 1/2	9TEI3-*	10	6 1/8	3 1/4	2 3/16	3 11/16	2	1/4	3/8	9
	2	9TEI4-*	10	6 1/8	4 1/4	2 1/2	3 13/16	2	1/4	3/8	9
10	1 1/2	10TEI3-*	11	6 3/8	3 1/4	2 3/16	3 11/16	2	1/4	3/8	11
	2	10TEI4-*	11	6 3/8	4 1/4	2 1/2	3 13/16	2	1/4	3/8	11
12	2	12TEI4-*	13	7 3/4	4 1/4	2 9/16	3 7/8	2	1/4	1/2	19
	2 7/16	12TEI5-*	13	7 3/4	5 1/4	2 15/16	4 7/16	2	1/4	1/2	19
	3	12TEI6-*	13	7 3/4	6 1/4	3 3/4	4 15/16	2	1/4	1/2	19
14	2 7/16	14TEI5-*	15	9 1/4	5 5/16	2 15/16	4 7/16	2	1/4	1/2	34
	3	14TEI6-*	15	9 1/4	6 5/16	3 3/4	4 15/16	2	1/4	1/2	34
16	3	16TEI6-*	17	10 5/8	6 5/16	3 13/16	5	2	5/16	5/8	40
18	3	18TEI6-*	19	12 1/8	6 3/8	3 13/16	5	2	3/8	5/8	58
	3 7/16	18TEI7-*	19	12 1/8	7 3/8	4 5/16	5 9/16	2	3/8	5/8	58
20	3	20TEI6-*	21	13 1/2	6 3/8	3 7/8	5 1/16	2	3/8	5/8	83
	3 7/16	20TEI7-*	21	13 1/2	7 3/8	4 3/8	5 5/8	2	3/8	5/8	83
24	3 7/16	24TEI7-*	25	16 1/2	7 3/8	4 3/8	5 5/8	2	3/8	5/8	116

Inside Rectangular

Rectangular trough ends are used inside of rectangular trough. Drilling for bronze bearing or flanged ball bearing is standard.



Conveyor Diameter	Shaft Diameter	▲ Part Number	A	B	C	D			E	K	N	Weight
						Friction Bearing	Ball Bearing	Roller Bearing				
4	1	4TER2-*	5	3 5/8	2 1/2	2 3/16	1 5/8	—	2	1/4	1/4	4
6	1 1/2	6TER3-*	7	4 1/2	3 1/2	3 3/16	2 3/16	3 11/16	2	1/4	5/16	6
9	1 1/2	9TER3-*	10	6 1/8	5	3 1/4	2 3/16	3 11/16	2	1/4	3/8	9
	2	9TER4-*	10	6 1/8	5	4 1/4	2 1/2	3 13/16	2	1/4	3/8	9
10	1 1/2	10TER3-*	11	6 3/8	5 1/2	3 1/4	2 3/16	3 11/16	2	1/4	3/8	12
	2	10TER4-*	11	6 3/8	5 1/2	4 1/4	2 1/2	3 13/16	2	1/4	3/8	12
12	2	12TER4-*	13	7 3/4	6 1/2	4 1/4	2 9/16	3 7/8	2	1/4	1/2	21
	2 7/16	12TER5-*	13	7 3/4	6 1/2	5 1/4	2 15/16	4 7/16	2	1/4	1/2	21
	3	12TER6-*	13	7 3/4	6 1/2	6 1/4	3 3/4	4 15/16	2	1/4	1/2	21
14	2 7/16	14TER5-*	15	9 1/4	7 1/2	5 5/16	2 15/16	4 7/16	2	1/4	1/2	35
	3	14TER6-*	15	9 1/4	7 1/2	6 5/16	3 3/4	4 15/16	2	1/4	1/2	35
16	3	16TER6-*	17	10 5/8	8 1/2	6 5/16	3 13/16	5	2	5/16	5/8	41
18	3	18TER6-*	19	12 1/8	9 1/2	6 3/8	3 13/16	5	2	3/8	5/8	60
	3 7/16	18TER7-*	19	12 1/8	9 1/2	7 3/8	4 5/16	5 9/16	2	3/8	5/8	60
20	3	20TER6-*	21	13 1/2	10 1/2	6 3/8	3 7/8	5 1/16	2	3/8	5/8	88
	3 7/16	20TER7-*	21	13 1/2	10 1/2	7 3/8	4 3/8	5 5/8	2	3/8	5/8	88
24	3 7/16	24TER7-*	25	16 1/2	12 1/2	7 3/8	4 3/8	5 5/8	2	3/8	5/8	125

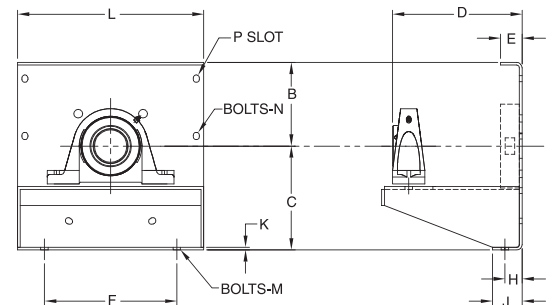
▲ Can be furnished with CSP, CSW, or CSFP seals

-*BB Ball Bearing
-*BR Bronze Bearing

-*RB Roller Bearing
-*PLess Bearing

Single Bearing

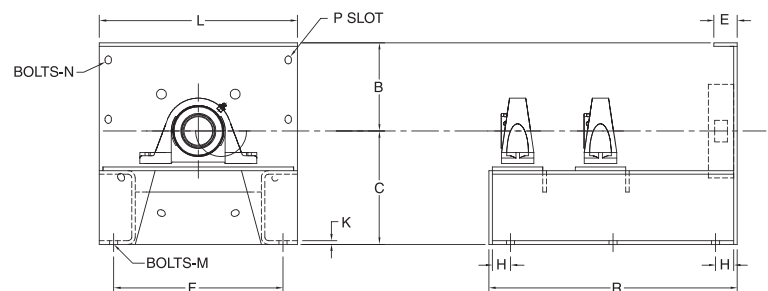
Single bearing pedestal type trough ends are constructed with base for mounting pillow block bearings and shaft seal or packing gland.



Conveyor Diameter	Shaft Diameter	Part Number	B	C	D	E	F	H	J	K	L	M	N	P Slot	Weight
6	1 1/2	6TE03	Consult Factory												
9	1 1/2	9TE03													
	2	9TE04													
10	1 1/2	10TE03													
	2	10TE04													
12	2 7/16	12TE04													
	3	12TE05													
	3	12TE06													
14	2 7/16	14TE05													
	3	14TE06													
16	3	16TE06													
18	3	18TE06													
	3 7/16	18TE07													
20	3	20TE06													
	3 7/16	20TE07													
24	3 7/16	24TE07													

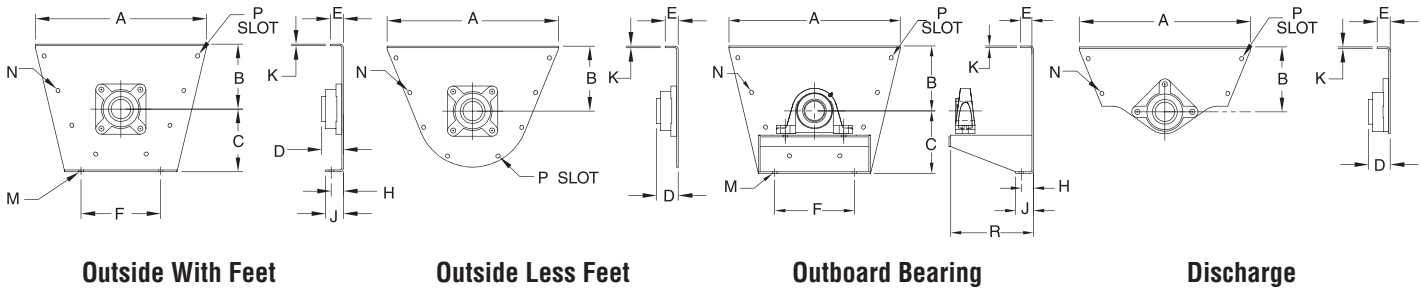
Double Bearing

Double bearing pedestal type trough ends are for use with pillow block bearing in conjunction with a flanged bearing providing extra shaft support.



Conveyor Diameter	Shaft Diameter	Part Number	B	C	E	F	H	K	L	M	R	P Slot	Weight
6	1 1/2	6TEOD3	Consult Factory										
9	1 1/2	9TEOD3											
	2	9TEOD4											
10	1 1/2	10TEOD3											
	2	10TEOD4											
12	2 7/16	12TEOD4											
	3	12TEOD5											
	3	12TEOD6											
14	2 7/16	14TEOD5											
	3	14TEOD6											
16	3	16TEOD6											
18	3	18TEOD6											
	3 7/16	18TEOD7											
20	3	20TEOD6											
	3 7/16	20TEOD7											
24	3 7/16	24TEOD7											

Trough Ends



Application: same as standard trough ends except for flared trough.

Conveyor Diameter	Shaft Diameter	A	B	C	D			E	F	H	J	K	M	N	R	P Slot
					Friction Bearing	Ball Bearing	Roller Bearing									
6	1 1/2	16 5/8	7	5 5/8	3 3/16	2 3/16	3 3/4	1 1/2	8 1/8	1	1 3/4	1/4	3/8	3/8		7/16 x 9/16
9	1 1/2	21 1/4	9	7 7/8	3 1/4	2 3/16	3 3/4	1 5/8	9 3/8	1 1/2	2 5/8	1/4	1/2	3/8		7/16 x 9/16
	2	21 1/4	9	7 7/8	4 1/4	2 1/2	3 7/8	1 5/8	9 3/8	1 1/2	2 5/8	1/4	1/2	3/8		7/16 x 9/16
12	2	26 3/8	10	9 5/8	4 1/4	2 9/16	3 7/8	2	12 1/4	1 5/8	2 3/4	1/4	5/8	1/2		9/16 x 11/16
	2 7/16	26 3/8	10	9 5/8	5 1/4	2 15/16	4 1/2	2	12 1/4	1 5/8	2 3/4	1/4	5/8	1/2		9/16 x 11/16
14	3	26 3/8	10	9 5/8	6 1/4	3 3/4	5	2	12 1/4	1 5/8	2 3/4	1/4	5/8	1/2		9/16 x 11/16
	2 7/16	28 3/8	11	10 7/8	5 5/16	2 15/16	4 1/2	2	13 1/2	1 5/8	2 7/8	1/4	5/8	1/2		9/16 x 11/16
16	3	28 3/8	11	10 7/8	6 5/16	3 3/4	5	2	13 1/2	1 5/8	2 7/8	5/16	5/8	1/2		9/16 x 11/16
	3	32 1/2	11 1/2	12	6 5/16	3 13/16	5	2 1/2	14 7/8	2	3 1/4	5/16	5/8	5/8		11/16 x 13/16
18	3	36 1/2	12 1/8	13 3/8	6 3/8	3 13/16	5	2 1/2	16	2	3 1/4	3/8	5/8	5/8		11/16 x 13/16
	3 7/16	36 1/2	12 1/8	13 3/8	7 3/8	4 5/16	5 5/8	2 1/2	16	2	3 1/4	3/8	5/8	5/8		11/16 x 13/16
20	3	39 1/2	13 1/2	15	6 3/8	3 7/8	5	2 1/2	19 1/4	2 1/4	3 3/4	3/8	3/4	5/8		11/16 x 13/16
	3 7/16	39 1/2	13 1/2	15	7 3/8	4 3/8	5 5/8	2 1/2	19 1/4	2 1/4	3 3/4	3/8	3/4	5/8		11/16 x 13/16
24	3 7/16	45 1/2	16 1/2	18 1/8	7 3/8	4 3/8	5 5/8	2 1/2	20	2 1/2	4 1/8	3/8	3/4	5/8		11/16 x 13/16

Consult Factory

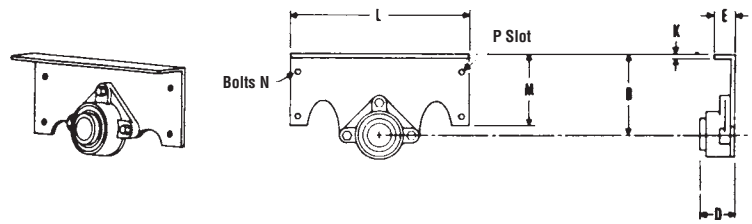
Conveyor Diameter	Shaft Diameter	Part Number							
		Outside With Feet	Weight	Outside Less Feet	Weight	Outboard Bearing	Weight	Discharge	Weight
6	1 1/2	6FTEF3-*	15	6FTE3-*	13	6FTE03-*	22	6FTD03-**	11
9	1 1/2	9FTEF3-*	22	9FTE3-*	19	9FTE03-*	31	9FTD03-**	15
	2	9FTEF4-*	27	9FTE4-*	24	9FTE04-*	36	9FTD04-**	20
12	2	12FTEF4-*	43	12FTE4-*	36	12FTE04-*	63	12FTD04-**	28
	2 7/16	12FTEF5-*	44	12FTE5-*	37	12FTE05-*	64	12FTD05-**	29
14	3	12FTEF6-*	56	12FTE6-*	49	12FTE06-*	76	12FTD06-**	41
	2 7/16	14FTEF5-*	52	14FTE5-*	43	14FTE05-*	75	14FTD05-**	33
16	3	14FTEF6-*	64	14FTE6-*	55	14FTE06-*	87	14FTD06-**	45
	3	16FTEF6-*	85	16FTE6-*	72	16FTE06-*	125	16FTD06-**	56
18	3	18FTEF6-*	98	18FTE6-*	83	18FTE06-*	138	18FTD06-**	63
	3 7/16	18FTEF7-*	104	18FTE7-*	89	18FTE07-*	144	18FTD07-**	69
20	3	20FTEF6-*	133	20FTE6-*	103	20FTE06-*	196	20FTD06-**	75
	3 7/16	20FTEF7-*	139	20FTE7-*	109	20FTE07-*	202	20FTD07-**	81
24	3 7/16	24FTEF7-*	179	24FTE7-*	132	24FTE07-*	250	24FTD07-**	96

-*BB-P Ball Bearing Plate Only
-*RB-P Roller Bearing Plate Only

For Bolt Pattern see Page H-41

Outside Discharge

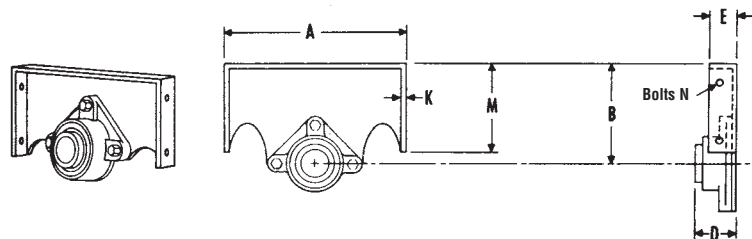
Outside discharge trough ends are used to support end bearing and will allow material to discharge or overflow through the end of the trough. Drilling for three bolt bronze or flanged ball bearing is standard.



Conveyor Diameter	Shaft Diameter	Part Number	B	D			E	K	L	M	N	P Slot	Weight
				Friction Bearing	Ball Bearing	Roller Bearing							
4	1	4TD02-*	3 5/8	2 1/4	1 5/8		1 7/16	1/4	8	3 5/8	3/8	7/16 × 9/16	2
6	1 1/2	6TD03-*	4 1/2	3 1/2	2 1/8	3 3/4	1 1/2	1/4	9 3/4	4 1/2	3/8	7/16 × 9/16	3
9	1 1/2	9TD03-*	6 1/8	3 1/2	2 1/8	3 3/4	1 5/8	1/4	13 3/4	6 1/8	3/8	7/16 × 9/16	5
	2	9TD04-*	6 1/8	4 7/16	2 1/2	3 7/8	1 5/8	1/4	13 3/4	6 1/8	3/8	7/16 × 9/16	5
10	1 1/2	10TD03-*	6 3/8	3 1/2	2 1/8	3 3/4	1 3/4	1/4	14 3/4	6 3/8	3/8	7/16 × 9/16	6
	2	10TD04-*	6 3/8	4 7/16	2 1/2	3 7/8	1 3/4	1/4	14 3/4	6 3/8	3/8	7/16 × 9/16	6
12	2	12TD04-*	7 3/4	4 7/16	2 1/2	3 7/8	2	1/4	17 1/4	7 3/4	1/2	9/16 × 11/16	12
	2 7/16	12TD05-*	7 3/4	5 5/16	2 9/16	4 7/16	2	1/4	17 1/4	7 3/4	1/2	9/16 × 11/16	12
	3	12TD06-*	7 3/4	5 15/16	3 3/4	4 15/16	2	1/4	17 1/4	7 3/4	1/2	9/16 × 11/16	12
14	2 7/16	14TD05-*	9 1/4	5 5/16	2 9/16	4 7/16	2	1/4	19 1/4	9 1/4	1/2	9/16 × 11/16	17
	3	14TD06-*	9 1/4	5 15/16	3 3/8	4 15/16	2	1/4	19 1/4	9 1/4	1/2	9/16 × 11/16	17
16	3	16TD06-*	10 5/8	6	3 7/16	5	2 1/2	5/16	21 1/4	10 5/8	5/8	11/16 × 13/16	26
18	3	18TD06-*	12 1/8	6 1/16	3 1/2	5 1/16	2 1/2	3/8	24 1/4	12 1/8	5/8	11/16 × 13/16	33
	3 7/16	18TD07-*	12 1/8	6 5/8	3 3/4	5 5/8	2 1/2	3/8	24 1/4	12 1/8	5/8	11/16 × 13/16	33
20	3	20TD06-*	13 1/2	6 1/16	3 1/2	5 1/16	2 1/2	3/8	26 1/4	13 1/2	5/8	11/16 × 13/16	55
	3 7/16	20TD07-*	13 1/2	6 5/8	3 3/4	5 5/8	2 1/2	3/8	26 1/4	13 1/2	5/8	11/16 × 13/16	55
24	3 7/16	24TD07-*	16 1/2	6 5/8	3 3/4	5 5/8	2 1/2	3/8	30 1/2	16 1/2	5/8	11/16 × 13/16	81

Inside Discharge

Inside discharge trough ends are used to support end bearing and will allow material to discharge or overflow through the end of the trough. This trough end is used inside the trough where no trough end flanges are required. Drilling for three bolt bronze or flanged ball bearing is standard.



Conveyor Diameter	Shaft Diameter	Part Number	A	B	D			E	K	M	N	Weight
					Friction Bearing	Ball Bearing	Roller Bearing					
4	1	4TDI2-*	5	3 5/8	2 1/4	1 5/8		2	1/4	3 5/8	3/8	2
6	1 1/2	6TDI3-*	7	4 1/2	3 1/2	2 1/8	3 3/4	2	1/4	4 1/2	3/8	3
9	1 1/2	9TDI3-*	10	6 1/8	3 1/2	2 1/8	3 3/4	2	1/4	6 1/8	3/8	5
	2	9TDI4-*	10	6 1/8	4 7/16	2 1/2	3 7/8	2	1/4	6 1/8	3/8	5
10	1 1/2	10TDI3-*	11	6 3/8	3 1/2	2 1/8	3 3/4	2	1/4	6 3/8	3/8	6
	2	10TDI4-*	11	6 3/8	4 7/16	2 1/2	3 7/8	2	1/4	6 3/8	3/8	6
12	2	12TDI4-*	13	7 3/4	4 7/16	2 1/2	3 7/8	2	1/4	7 3/4	1/2	12
	2 7/16	12TDI5-*	13	7 3/4	5 5/16	2 9/16	4 7/16	2	1/4	7 3/4	1/2	12
	3	12TDI6-*	13	7 3/4	5 15/16	3 3/4	4 15/16	2	1/4	7 3/4	1/2	12
14	2 7/16	14TDI5-*	15	9 1/4	5 5/16	2 9/16	4 7/16	2	1/4	9 1/4	5/8	16
	3	14TDI6-*	15	9 1/4	5 15/16	3 3/8	4 15/16	2	1/4	9 1/4	5/8	16
16	3	16TDI6-*	17	10 5/8	6	3 7/16	5	2	5/16	10 5/8	5/8	25
18	3	18TDI6-*	19	12 1/8	6 1/16	3 1/2	5 1/16	2	3/8	12 1/8	5/8	32
	3 7/16	18TDI7-*	19	12 1/8	6 5/8	3 3/4	5 5/8	2	3/8	12 1/8	5/8	32
20	3	20TDI6-*	21	13 1/2	6 1/16	3 1/2	5 1/16	2	3/8	13 1/2	5/8	50
	3 7/16	20TDI7-*	21	13 1/2	6 5/8	3 3/4	5 5/8	2	3/8	13 1/2	5/8	50
24	3 7/16	24TDI7-*	25	16 1/2	6 5/8	3 3/4	5 5/8	2	3/8	16 1/2	5/8	76

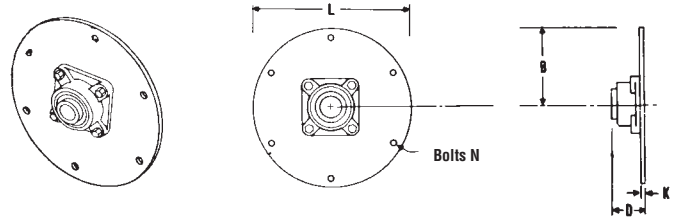
-*BB-P Ball Bearing Plate Only
 -*RB-P Roller Bearing Plate Only

Trough Ends



Outside

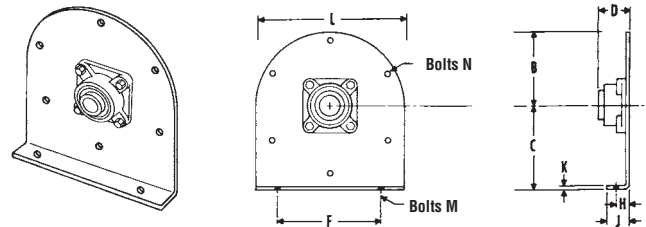
Outside tubular trough ends less feet are used to support end bearings on tubular trough where no foot or support is required. Drilling for bronze or flanged ball bearing is standard.



Conveyor Diameter	Shaft Diameter	Part Number	B	D			K	L	N	Weight
				Friction Bearing	Ball Bearing	Roller Bearing				
4	1	4CHTE2-*	4	2 1/4	1 5/8		1/4	8	3/8	2
6	1 1/2	6CHTE3-*	5 1/16	3 1/2	2 1/8	3 3/4	1/4	10 1/8	3/8	3
9	1 1/2	9CHTE3-*	6 5/8	3 1/2	2 1/8	3 3/4	1/4	13 1/4	3/8	6
	2	9CHTE4-*	6 5/8	4 7/16	2 1/2	3 7/8	1/4	13 1/4	3/8	6
10	1 1/2	10CHTE3-*	7 3/8	3 1/2	2 1/8	3 3/4	1/4	14 3/4	3/8	7
	2	10CHTE4-*	7 3/8	4 7/16	2 1/2	3 7/8	1/4	14 3/4	3/8	7
12	2	12CHTE4-*	8 1/8	4 7/16	2 1/2	3 7/8	1/4	16 1/4	1/2	13
	2 7/16	12CHTE5-*	8 1/8	5 5/16	2 9/16	4 7/16	1/4	16 1/4	1/2	13
	3	12CHTE6-*	8 1/8	5 15/16	3 3/4	4 15/16	1/4	16 1/4	1/2	13
14	2 7/16	14CHTE5-*	9 1/8	5 5/16	2 9/16	4 7/16	1/4	18 1/4	1/2	19
	3	14CHTE6-*	9 1/8	5 15/16	3 3/8	4 15/16	1/4	18 1/4	1/2	19
16	3	16CHTE6-*	10 5/8	6	3 7/16	5	5/16	21 1/4	5/8	29
18	3	18CHTE6-*	12 1/8	6 1/16	3 1/2	5 1/16	3/8	24 1/4	5/8	39
	3 7/16	18CHTE7-*	12 1/8	6 5/8	3 3/4	5 5/8	3/8	24 1/4	5/8	39
20	3	20CHTE6-*	13 1/8	6 1/16	3 1/2	5 1/16	3/8	26 1/4	5/8	63
	3 7/16	20CHTE7-*	13 1/8	6 5/8	3 3/4	5 5/8	3/8	26 1/4	5/8	63
24	3 7/16	24CHTE7-*	15 1/8	6 5/8	3 3/4	5 5/8	3/8	30 1/4	5/8	87

Outside with Feet

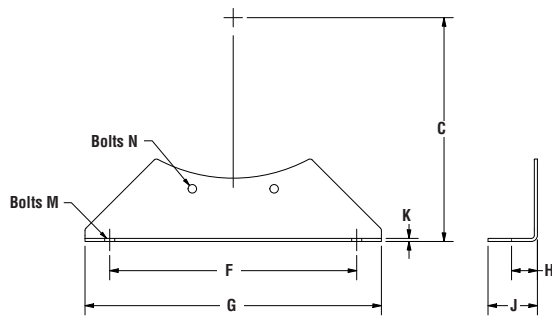
Outside tubular trough ends with feet are used to support end bearing where trough support is required. Drilling for bronze or flanged ball bearing is standard.



Conveyor Diameter	Shaft Diameter	Part Number	B	C	D			F	H	J	K	L	M	N	Weight
					Friction Bearing	Ball Bearing	Roller Bearing								
4	1	4CHTEF2-*	4	4 5/8	2 1/4	1 5/8		5 3/4	1	1 5/8	1/4	8	3/8	3/8	3
6	1 1/2	6CHTEF3-*	5 1/16	5 5/8	3 1/2	2 1/8	3 3/4	8 1/8	1	1 3/4	1/4	10 1/8	3/8	3/8	5
9	1 1/2	9CHTEF3-*	6 5/8	7 7/8	3 1/2	2 1/8	3 3/4	9 3/8	1 1/2	2 5/8	1/4	13 1/4	1/2	3/8	10
	2	9CHTEF4-*	6 5/8	7 7/8	4 7/16	2 1/2	3 7/8	9 3/8	1 1/2	2 5/8	1/4	13 1/4	1/2	3/8	10
10	1 1/2	10CHTEF3-*	7 3/8	8 7/8	3 1/2	2 1/8	3 3/4	9 1/2	1 3/4	2 7/8	1/4	14 3/4	1/2	3/8	12
	2	10CHTEF4-*	7 3/8	8 7/8	4 7/16	2 1/2	3 7/8	9 1/2	1 3/4	2 7/8	1/4	14 3/4	1/2	3/8	12
12	2	12CHTEF4-*	8 1/8	9 5/8	4 7/16	2 1/2	3 7/8	12 1/4	1 5/8	2 3/4	1/4	16 1/4	5/8	1/2	22
	2 7/16	12CHTEF5-*	8 1/8	9 5/8	5 5/16	2 9/16	4 7/16	12 1/4	1 5/8	2 3/4	1/4	16 1/4	5/8	1/2	22
	3	12CHTEF6-*	8 1/8	9 5/8	5 15/16	3 3/4	4 15/16	12 1/4	1 5/8	2 3/4	1/4	16 1/4	5/8	1/2	22
14	2 7/16	14CHTEF5-*	9 1/8	10 7/8	5 5/16	2 9/16	4 7/16	13 1/2	1 5/8	2 7/8	1/4	18 1/4	5/8	1/2	24
	3	14CHTEF6-*	9 1/8	10 7/8	5 15/16	3 3/8	4 15/16	13 1/2	1 5/8	2 7/8	1/4	18 1/4	5/8	1/2	24
16	3	16CHTEF6-*	10 5/8	12	6	3 7/16	5	14 7/8	2	3 1/4	5/16	21 1/4	5/8	5/8	44
18	3	18CHTEF6-*	12 1/8	13 3/8	6 1/16	3 1/2	5 1/16	16	2	3 1/4	3/8	24 1/4	5/8	5/8	56
	3 7/16	18CHTEF7-*	12 1/8	13 3/8	6 5/8	3 3/4	5 5/8	16	2	3 1/4	3/8	24 1/4	5/8	5/8	56
20	3	20CHTEF6-*	13 1/8	15	6 1/16	3 1/2	5 1/16	19 1/4	2 1/4	3 3/4	3/8	26 1/4	3/4	5/8	92
	3 7/16	20CHTEF7-*	13 1/8	15	6 5/8	3 3/4	5 5/8	19 1/4	2 1/4	3 3/4	3/8	26 1/4	3/4	5/8	92
24	3 7/16	24CHTEF7-*	15 1/8	18 1/8	6 5/8	3 3/4	5 5/8	20	2 1/2	4 1/8	3/8	30 1/4	3/4	5/8	134

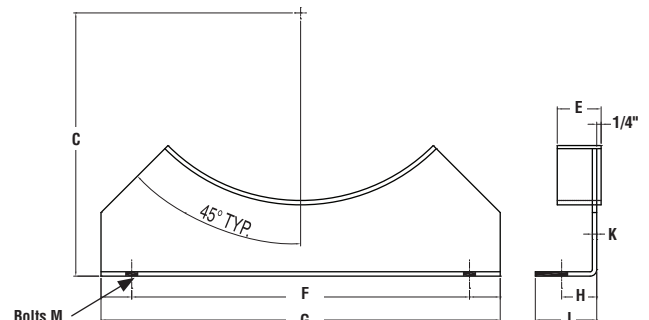
-*BB-P Ball Bearing Plate Only
-*RB-P Roller Bearing Plate Only

For Bolt Pattern see Page H-42



Flange Foot

Trough feet are used to support trough at trough connections.



Saddle

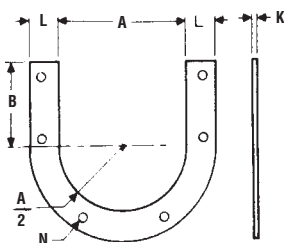
Trough saddles are used to support trough where flange feet cannot be used at connections

Conveyor Diameter	Part Number			Weight		
	Saddle	Tubular	Flange Foot	Saddle	Tubular	Flange Foot
4	4TS	4CHTFF	4TFF	1.5	1	1.5
6	6TS	6CHTFF	6TFF	2.0	2	2.0
9	9TS	9CHTFF	9TFF	4.5	4.5	4.5
10	10TS	10CHTFF	10TFF	5.0	4.5	5.0
12	12TS	12CHTFF	12TFF	6.0	5	6.0
14	14TS	14CHTFF	14TFF	7.0	7	7.0
16	16TS	16CHTFF	16TFF	8.0	8	7.5
18	18TS	18CHTFF	18TFF	10.0	10	9.5
20	20TS	20CHTFF	20TFF	13.0	11	12.5
24	24TS	24CHTFF	24TFF	15.0	12	14.5

Conveyor Diameter	C	E	F	G	H	J	K	M*	N
4	4 5/8	1 7/16	5 3/4	7 3/8	1	1 5/8	3/16	3/8	3/8
6	5 5/8	1 7/16	8 1/8	10	1 1/4	2	3/16	3/8	3/8
9	7 7/8	1 3/4	9 3/8	12	1 1/2	2 5/8	3/16	1/2	3/8
10	8 7/8	1 3/4	9 1/2	12 3/8	1 3/4	2 7/8	3/16	1/2	3/8
12	9 5/8	1 3/4	12 1/4	15	1 5/8	2 3/4	1/4	5/8	1/2
14	10 7/8	2	13 1/2	16 1/2	1 5/8	2 7/8	1/4	5/8	1/2
16	12	2	14 7/8	18	2	3 1/4	1/4	5/8	5/8
18	13 3/8	2	16	19 1/8	2	3 1/4	1/4	5/8	5/8
20	15	2 1/2	19 1/4	22 3/4	2 1/4	3 3/4	1/4	3/4	5/8
24	18 1/8	2 1/2	20	24	2 1/2	4	1/4	3/4	5/8

* Holes for Bolt M Slotted

Trough End Flanges



Size	Part Number	A		B	K	L	N	Weight	Red Rubber Gasket
		Trough Thickness							Part Number
		Thru 10 Ga.	3/16 & 1/4						
4	4TF*	5 1/4	5 3/8	3 3/8	1/4	1 1/4	3/8	.09	4TFG
6	6TF*	7 1/4	7 3/8	4 1/4	1/4	1 1/2	3/8	1.5	6TFG
9	9TF*	10 1/4	10 1/2	5 7/8	1/4	13/4	3/8	2.4	9TFG
10	10TF*	11 1/4	11 1/2	6 1/8	1/4	13/4	3/8	2.6	10TFG
12	12TF*	13 1/4	13 1/2	7 1/2	1/4	2	1/2	5.6	12TFG
14	14TF*	15 1/4	15 1/2	9	1/4	2	1/2	6.5	14TFG
16	16TF*	17 1/4	17 1/2	10 3/8	1/4	2	5/8	7.4	16TFG
18	18TF*	19 1/4	19 1/2	11 13/16	1/4	2 1/2	5/8	10.2	18TFG
20	20TF*	21 1/4	21 1/2	13 3/16	1/4	2 1/2	5/8	11.3	20TFG
24	24TF*	25 1/4	25 1/2	16 1/2	1/4	2 1/2	5/8	15.5	24TFG

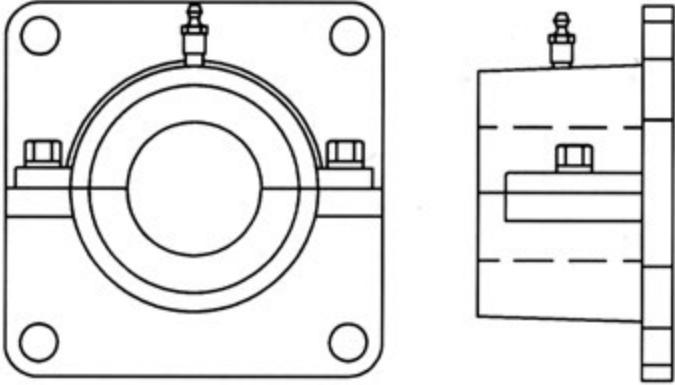
*-10 used for troughs through 10 ga., -3 used for troughs 3/16 and 1/4 thick.

*** For White Rubber Gasket Add WN

End Bearing



KEEP THE HOUSING REPLACE THE INSERT.



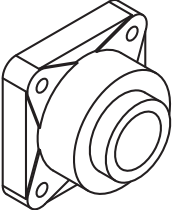
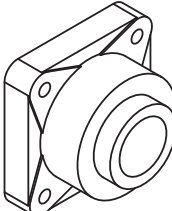
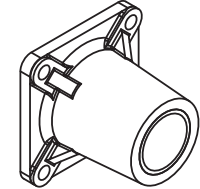
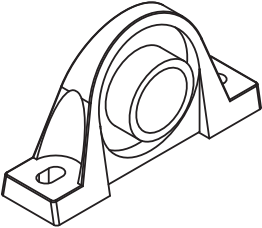
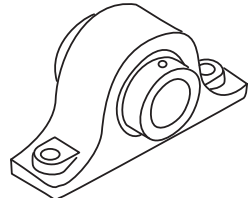
TEBH- Split Bearing Housings will help cut down on a plant's repair parts inventory, as well as the cost of the bearing. The rugged cast iron housing is not subject to wear, only the Style 220 Hanger bearing insert needs to be replaced.

The housings match CEMA standard ball bearing bolt pattern, so they can be used with most seals.

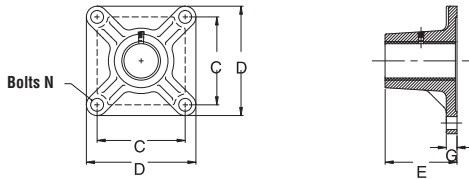
Split bearing housings are stocked in all *Martin* stocking facilities.

TROUGH END BEARING HOUSINGS

Martin Split Bearing Housings utilize *Martin* Style 220 Hanger Bearings.

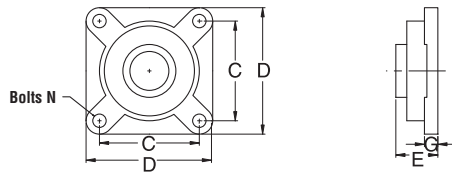
FLANGE UNITS	Mounted on trough end plate		Ball Bearing Flange Unit
			Roller Bearing Flange Unit
			Bronze Sleeve Bearing Flange Unit
PILLOW BLOCKS	Mounted on pedestal of outboard bearing trough end.		Ball Bearing Pillow Block
			Roller Bearing Pillow Block

Bronze Flange Unit



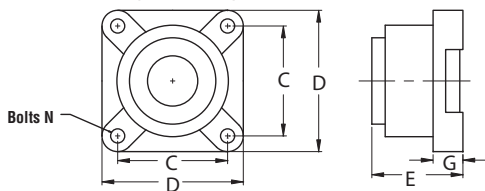
Bore	Part Number	C	D	E	G	N
1	TEB2BR	2 3/4	3 3/4	2	17/32	3/8
1 1/2	TEB3BR	4	5 1/8	3 1/4	9/16	1/2
2	TEB4BR	5 1/8	6 3/8	4 3/16	5/8	5/8
2 7/16	TEB5BR	5 5/8	6 7/8	4 15/16	13/16	5/8
3	TEB6BR	6	7 3/4	5 11/16	7/8	5/8
3 7/16	TEB7BR	6 3/4	8 7/16	6 1/4	1	13/16

Ball Bearing Flange Unit



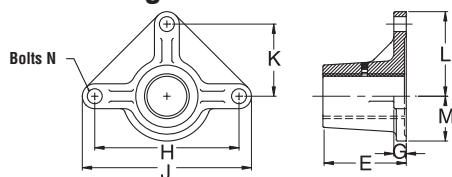
Bore	Part Number	C	D	E	G	N
1	TEB2BB	2 3/4	3 3/4	1 3/8	1/2	3/8
1 1/2	TEB3BB	4	5 1/8	1 7/8	9/16	1/2
2	TEB4BB	5 1/8	6 1/2	2 3/8	11/16	5/8
2 7/16	TEB5BB	5 5/8	7	2 5/16	11/16	5/8
3	TEB6BB	6	7 3/4	3 1/8	7/8	3/4
3 7/16	TEB7BB	6 3/4	8 7/16	3 3/8	1	3/4

Roller Bearing Flange Unit



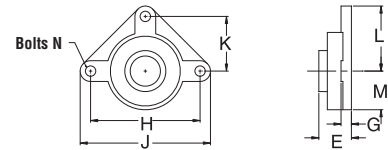
Bore	Part Number	C	D	E	G	N
1 1/2	TEB3R	4 1/8	5 3/8	3 1/2	1 3/16	1/2
2	TEB4R	4 3/8	5 5/8	3 5/8	1 3/16	1/2
2 7/16	TEB5R	5 3/8	6 7/8	4 3/16	1 1/2	5/8
3	TEB6R	6	7 3/4	4 11/16	1 5/8	3/4
3 7/16	TEB7R	7	9 1/4	5 1/4	1 7/8	3/4

Bronze Discharge Unit



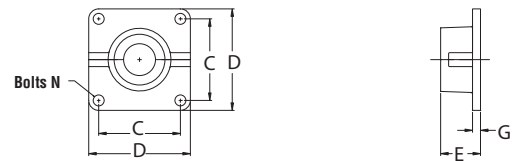
Bore	Part Number	E	G	H	J	K	L	M	N
1	TDB2BR	2	1/2	3 7/8	5 3/8	1 15/16	2 11/16	1	3/8
1 1/2	TDB3BR	3 1/4	9/16	5 5/8	7 1/4	2 13/16	3 5/8	1 1/4	1/2
2	TDB4BR	4 3/16	5/8	7 1/4	8	3 5/8	4	1 5/8	5/8
2 7/16	TDB5BR	4 15/16	11/16	8	9 7/8	4	4 15/16	1 7/8	5/8
3	TDB6BR	5 11/16	7/8	8 1/2	11	4 1/4	5 1/2	2 1/8	5/8
3 7/16	TDB7BR	6 1/4	1	9 1/2	12	4 3/4	6	2 1/2	3/4

Ball Bearing Discharge Unit



Bore	Part Number	E	G	H	J	K	L	M	N
1	TDB2BB	1 3/8	1/2	3 7/8	5 3/8	1 15/16	2 11/16	2	3/8
1 1/2	TDB3BB	2	9/16	5 5/8	7 1/4	2 13/16	3 5/8	2 1/2	1/2
2	TDB4BB	2 1/8	5/8	7 1/4	8	3 5/8	4	3	5/8
2 7/16	TDB5BB	2 1/2	11/16	8	9 7/8	4	4 15/16	3 1/2	5/8
3	TDB6BB	3 1/2	7/8	8 1/2	11	4 1/4	5 1/2	4	3/4
3 7/16	TDB7BB	4	1	9 1/2	12	4 3/4	6	4 1/2	3/4

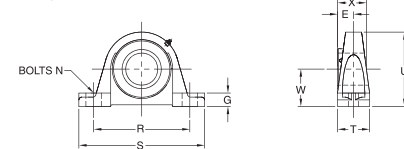
Trough End Bearing Housing



Bore	Part Number	C	D	E	G	N
1 1/2	TEBH3	4	5 1/4	2 1/2	1/2	1/2
2	TEBH4	5 1/8	6 3/8	2 1/2	1/2	5/8
2 7/16	TEBH5	5 5/8	6 7/8	3 9/16	9/16	5/8
3	TEBH6	6	7 3/4	3 5/8	5/8	3/4
3 7/16	TEBH7	7	9 1/4	4 3/4	3/4	3/4

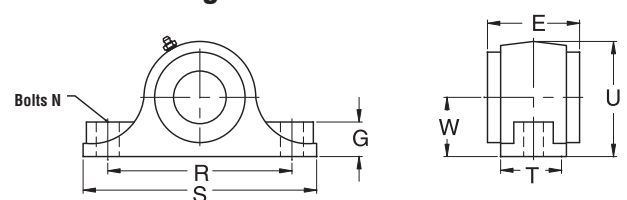
Use #220 Type Hanger Bearings, See Page H-93.

Ball Bearing Pillow Block



Bore	Part Number	E	G	N	R	S	T	U	W	X
1	TPB2BB	51/64	19/32	3/8	4 1/8	5 1/2	1 1/16	2 13/16	1 7/16	1 11/64
1 1/2	TPB3BB	1 11/64	7/8	1/2	5 1/2	7 1/4	1 7/8	4 1/8	2 1/8	1 21/64
2	TPB4BB	1 17/64	1	5/8	6 3/8	8 1/4	2 1/8	4 17/64	2 1/4	1 13/16
2 7/16	TPB5BB	1 15/16	1 1/16	5/8	7 3/8	9 5/8	2 3/8	5 15/32	2 3/4	1 57/64
3	TPB6BB	1 1/2	1 1/4	7/8	9	11 3/4	3	6 31/32	3 1/2	2 3/8
3 7/16	TPB7BB	1 9/16	1 11/32	7/8	11	14	3 3/8	7 7/8	4	2 23/64

Roller Bearing Pillow Block

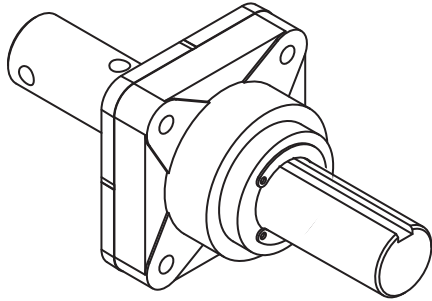


Bore	Part Number	E	G	N	R	S	T	U	W
1 1/2	TPB3R	3 3/8	1 1/4	1/2	6 1/4	7 7/8	2 3/8	4 1/4	2 1/8
2	TPB4R	3 1/2	1 3/8	5/8	7	8 7/8	2 1/2	4 1/2	2 1/4
2 7/16	TPB5R	4	1 5/8	5/8	8 1/2	10 1/2	2 7/8	5 1/2	2 3/4
3	TPB6R	4 1/2	1 7/8	3/4	9 1/2	12	3 1/8	6 1/4	3 1/8
3 7/16	TPB7R	5	2 1/4	7/8	11	14	3 5/8	7 1/2	3 3/4

Thrust Bearings

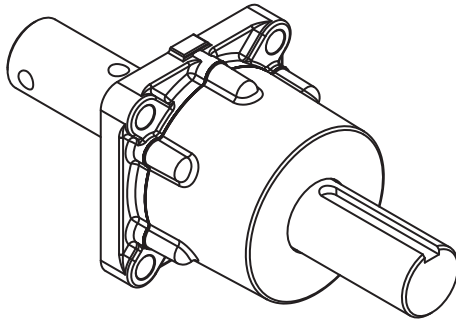
Martin

TYPE E THRUST BEARINGS



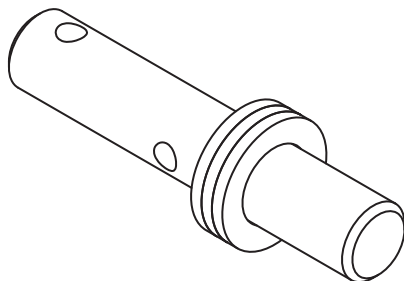
Most common and economical thrust unit when a screw conveyor type drive is not being used.

TYPE H THRUST BEARINGS



For heavy-duty thrust requirements.

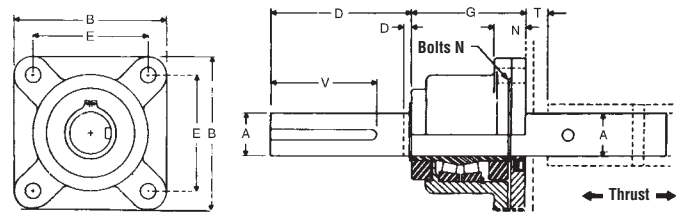
BRONZE WASHER



Light duty applications only.
Used inside the trough and when screw used in compression.

Type E Thrust Assembly

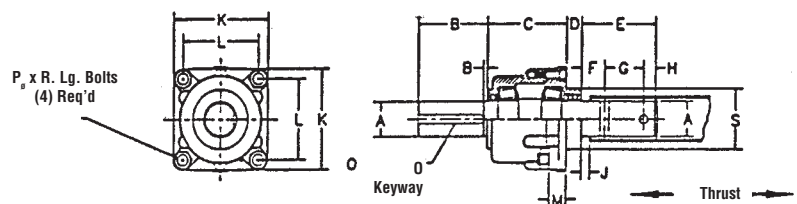
Type E roller thrust bearings are designed to carry thrust in both directions and carry radial load under normal conditions. This double roller bearing is furnished with a lip type seal plate and either drive or tail shaft whichever is applicable to conveyor design.



A	Part Number		B	D		E	G	H	N	T	V	Weight	
	Drive Shaft	End Shaft		Drive Shaft	End Shaft							Drive Shaft	End Shaft
1 1/2	CT3D	CT3E	5 3/8	4 3/4	3/4	4 1/8	4	1 11/16	1/2	1 1/4	4	22	20
2	CT4D	CT4E	5 5/8	5	3/4	4 3/8	4 1/8	1 11/16	1/2	1 1/4	4 1/2	32	29
2 7/16	CT5D	CT5E	6 7/8	5 1/2	3/4	5 3/8	4 11/16	2	5/8	1 13/16	5	50	44
3	CT6D	CT6E	7 3/4	6 1/2	3/4	6	5 3/16	2 1/8	3/4	1 7/8	6	73	60
3 7/16	CT7D	CT7E	9 1/4	7 1/2	3/4	7	6	2 5/8	3/4	2 3/8	7	111	88

Heavy-Duty RB End Thrust Bearings

Type E roller thrust bearings are designed to carry thrust in both directions and carry radial load under normal conditions. This double roller bearing is furnished with a lip type seal plate and either drive or tail shaft whichever is applicable to conveyor design.

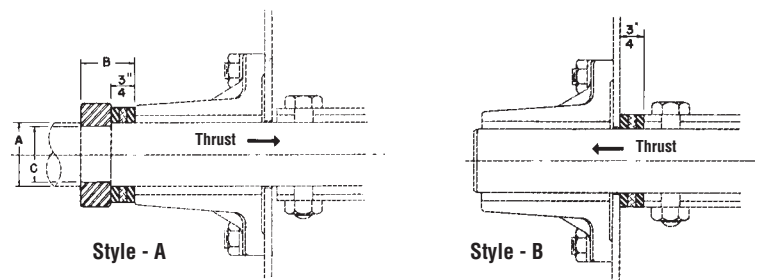


A	With Drive Shaft		With Tail Shaft		B		C	D	E	F	G	H	J	K	L	M	O	P	R	S
	Shaft Dia.	Part Number	Wt.	Part Number	Wt.	Drive Shaft															End Shaft	Keyway
1 1/2	CTH3D	60	CTH3E	52	4 1/2	1/4	6 3/4	1 1/8	4 7/8	1	3	7/8	1/8	7 1/4	5 3/4	1 3/16	3/8 x 4 1/4	3/4	2 1/2	4 3/4
2	CTH4D	65	CTH4E	56	4 1/2	1/4	6 3/4	1 1/8	4 7/8	1	3	7/8	1/8	7 1/4	5 3/4	1 3/16	1/2 x 4 1/4	3/4	2 1/2	4 3/4
2 7/16	CTH5D	80	CTH5E	66	5 9/16	5/16	6 1/4	1 1/4	5 7/16	1 1/2	3	15/16	9/16	8	6 1/4	1 1/2	5/8 x 5 1/4	3/4	3	5 1/2
3	CTH6D	145	CTH6E	119	6 1/8	1/4	8 1/4	1 1/2	5 3/8	1 3/8	3	1	3/8	10	8	1 3/4	3/4 x 5 3/4	1	3 1/2	6
3 7/16	CTH7D	170	CTH7E	140	7 1/8	3/8	8 1/4	1 1/2	7 5/8	2 3/8	4	1 1/4	7/8	10	8	1 3/4	7/8 x 6 3/4	1	3 1/2	6

Dimensions in inches and average weight in pounds.
Other shaft sizes available are 3 15/16", 4 7/16" & 4 15/16". Please consult factory.

Thrust Washers

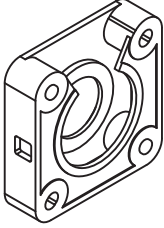
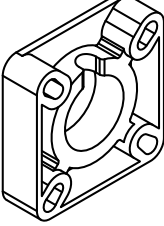
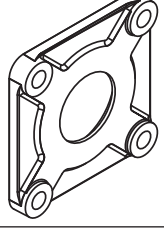
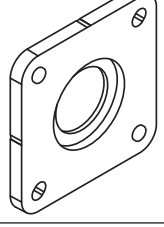
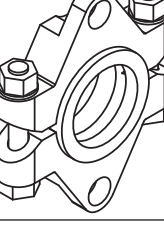
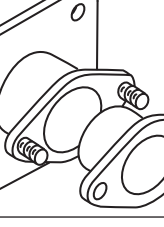
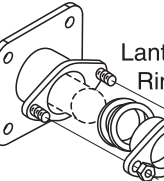
Thrust washers are designed for use where light thrust loads prevail. Style A or B mounting may be used depending on direction of thrust. This unit consists of two steel washers separated by one bronze washer, and Style B is not recommended for use in conveyors handling abrasive materials.



A	Washers & Collar Style A		Washer Set Style B		B	C
	Size Shaft	Part Number	Weight	Part Number			Weight
1 1/2	CTCW3	2.4	CTW3	1	1 1/4	1 1/4
2	CTCW4	2.8	CTW4	1.25	1 7/16	1 3/4
2 7/16	CTCW5	3.9	CTW5	1.5	1 1/2	2 1/8
3	CTCW6	4.6	CTW6	2	1 1/2	2 3/4
3 7/16	CTCW7	6.1	CTW7	3	1 5/8	3 1/4

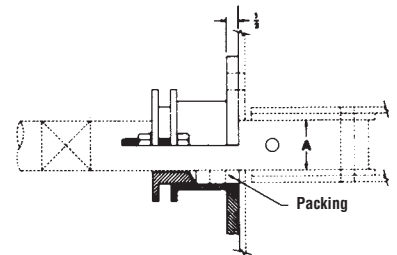
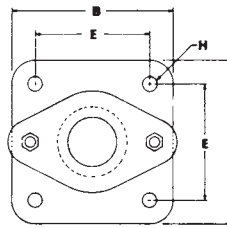
Shaft Seals



<p>WASTE PACK SEAL</p>		<p>Waste pack seals can be furnished with waste packing or in combination with lip seal. This type seal is normally installed between the trough end and bearing, but may be used separately on pedestal type trough ends. An opening is provided at top for repacking without removing seal from trough end. Can be used with flanged ball, roller or other standard 4-bolt bearings.</p>
<p><i>Martin</i> SUPER PACK SEAL</p>		<p><i>Martin</i> Super Pack Seal combines the heavy duty waste pack housing with the superior sealing characteristics of a Super Pack Seal. Seal may also be air or grease purged for difficult sealing applications.</p>
<p>PRODUCT DROP OUT SEAL</p>		<p>This flange type dust seal is designed for insertion between trough end and flanged ball bearing. The cast iron housing is open on all four sides for exit of material that might work past seal or lubricant from bearing.</p>
<p>PLATE SEAL</p>		<p>Plate seals are the most common and economical seal. It is normally furnished with a lip seal. This type seal is normally installed between the trough end and bearing, but may be used separately on pedestal type trough ends. Can be used with flanged ball, roller or other standard 4-bolt bearings.</p>
<p>SPLIT GLAND SEAL</p>		<p>Split gland compression type seals provide for easy replacement and adjustment of packing pressure on the shaft without removal of the conveyor. These seals can be installed inside or outside the end plates.</p>
<p>COMPRESSION TYPE PACKING GLAND SEAL</p>		<p>Flanged packing gland seals consist of an external housing and an internal gland which is forced into the housing to compress the packing. This is the most positive type shaft seal and may be used where minor pressure requirements are desired.</p>
<p>AIR-PURGED SEAL</p>	 <p>Lantern Ring</p>	<p>Air purge shaft seals are arranged for attaching to standard or special trough ends. A constant air pressure is maintained to prevent material from escaping from the trough along the shaft. The air purge seal is desirable for sealing highly abrasive materials. May be purged with grease or water.</p>

Compression Type Packing Gland Seal

Flanged gland seals consist of an external housing and an internal gland which is forced into the housing to compress the packing. This is the most positive type shaft seal and may be used where pressure requirements are desired.

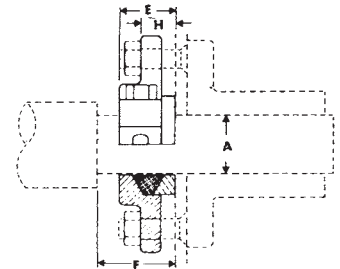
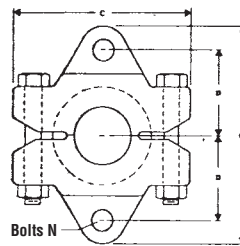


Shaft Diameter	Part Number	B	E	H Bolts	Weight
1 1/2	PGC3	5 1/4	4	1/2	14
2	PGC4	7 1/8	5 1/8	5/8	18
2 7/16	PGC5	7 5/8	5 5/8	5/8	21
3	PGC6	8 1/2	6	3/4	27
3 7/16	PGC7	9 1/4	6 3/4	3/4	30

*Braided rope graphite packing is standard. Other types available on request.

Split Gland Seal

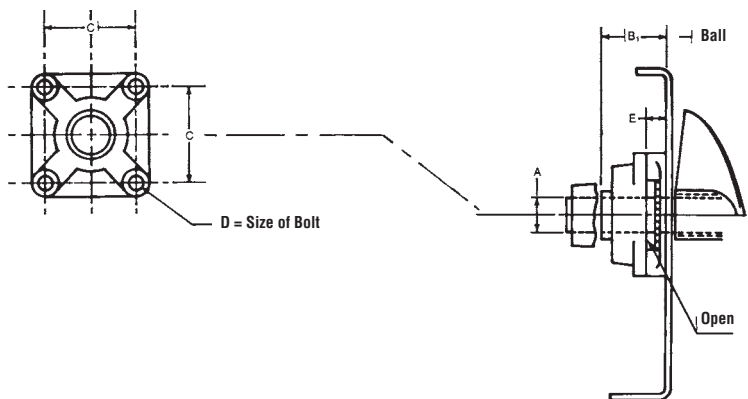
Split gland compression type seals provide for easy replacement and adjustment of packing pressure on the shaft without removal of the conveyor. These seals are normally installed inside the end plates.



Shaft Diameter	Part Number	C	D	E	F	G	H	N	Weight
1 1/2	CSS3	4 3/4	2 3/16	1 7/16	2 1/2	5 7/8	7/8	1/2	5
2	CSS4	6 1/4	2 5/8	1 1/2	2 1/2	6 1/2	7/8	1/2	10
2 7/16	CSS5	6 7/8	3 1/16	1 5/8	3 1/4	7 5/8	1	5/8	15
3	CSS6	7 1/2	3 9/16	1 5/8	3 1/4	8 5/8	1	5/8	22
3 7/16	CSS7	8 3/4	4 1/8	2 1/8	3 3/4	10 1/4	1 1/4	3/4	30

Flanged Product Drop-Out Seal

This flange type dust seal is designed for insertion between trough end and flanged bearing. The cast iron housing is open on all four sides for exit of material that might work past seal or lubricant from bearing.



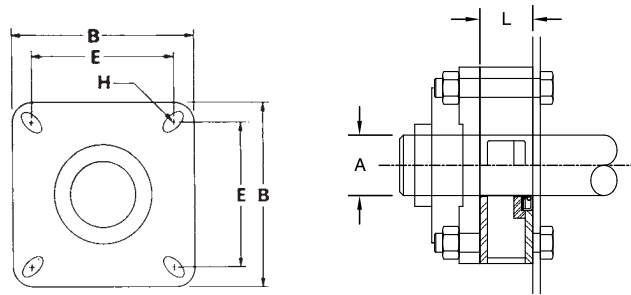
Shaft Diameter	Part Number	Weight	B ₁	C	E	D
1	CSFP2	1.75	2 1/8	2 3/4	11/16	3/8
1 1/2	CSFP3	3.4	2 57/64	4	7/8	1/2
2	CSFP4	5.3	3 3/16	5 1/8	7/8	5/8
2 7/16	CSFP5	5.8	3 9/16	5 5/8	7/8	5/8
3	CSFP6	7.2	4 3/8	6	7/8	3/4
3 7/16	CSFP7	10.3	4 31/32	6 3/4	1	3/4

Shaft Seals



Martin Super Pack Seal

Martin Super Pack Seal combines the heavy duty waste pack housing with the superior sealing characteristics of a Super Pack Seal. Seal may also be air or grease purged for difficult sealing applications.

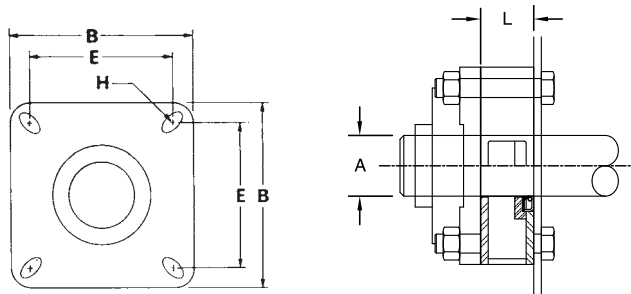


With Super Pack Seal

A Shaft Diameter	Part Number	B	L	E		H Bolts		Weight
				(-B)	(-R)	(-B)	(-R)	
1 1/2	MSP3	5 3/8	1 3/4	4	4 1/8	1/2	1/2	6
2	MSP4	6 1/2	1 3/4	5 1/8	4 3/8	5/8	1/2	8
2 7/16	MSP5	7 3/8	1 3/4	5 5/8	5 3/8	5/8	5/8	10
3	MSP6	7 3/4	1 3/4	6	6	3/4	3/4	13
3 7/16	MSP7	9 1/4	2 1/4	6 3/4	7	3/4	3/4	16

Waste Pack Seal

Waste pack seals are furnished with waste packing in combination with lip seal. This type seal is normally installed between the trough end and bearing, but may be used separately on pedestal type trough ends. An opening is provided at top for repacking without removing seal from trough end.

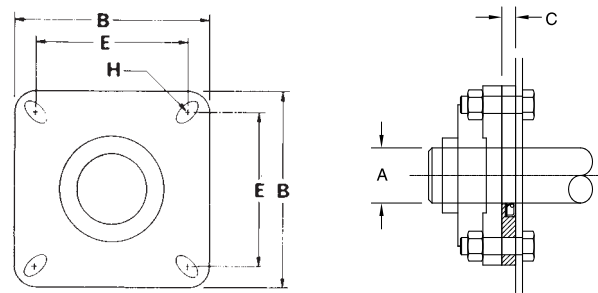


With Lip Seal

A Shaft Diameter	Part Number	B	L	E		H Bolts		Weight
				(-B)	(-R)	(-B)	(-R)	
1 1/2	CSW3	5 3/8	1 3/4	4	4 1/8	1/2	1/2	6
2	CSW4	6 1/2	1 3/4	5 1/8	4 3/8	5/8	1/2	8
2 7/16	CSW5	7 3/8	1 3/4	5 5/8	5 3/8	5/8	5/8	10
3	CSW6	7 3/4	1 3/4	6	6	3/4	3/4	13
3 7/16	CSW7	9 1/4	2 1/4	6 3/4	7	3/4	3/4	16

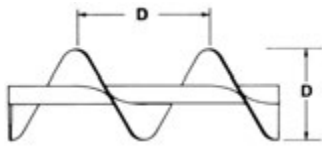
Plate Seal

Plate seals are the most common and economical seal. They are furnished with a lip seal. This type seal is normally installed between the trough end and bearing, but may be used separately on pedestal type trough ends. Slotted mounting holes allow use with both ball and roller flanged bearings.



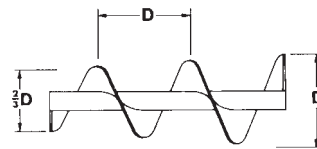
A Shaft Diameter	Part Number	B	C	E		H Bolts		Weight
				(-B)	(-R)	(-B)	(-R)	
1 1/2	CSP3	5 3/8	1/2	4	4 1/8	1/2	1/2	2
2	CSP4	6 1/2	1/2	5 1/8	4 3/8	5/8	1/2	3
2 7/16	CSP5	7 3/8	1/2	5 5/8	5 3/8	5/8	5/8	4
3	CSP6	7 3/4	1/2	6	6	3/4	3/4	5
3 7/16	CSP7	9 1/4	3/4	6 3/4	7	3/4	3/4	8

STANDARD PITCH, SINGLE FLIGHT



Conveyor screws with pitch equal to screw diameter are considered standard. They are suitable for a whole range of materials in most conventional applications.

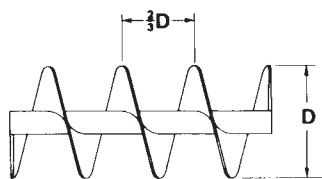
TAPERED, STANDARD PITCH, SINGLE FLIGHT



Price on Application

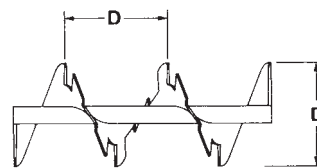
Screw flights increase from 2/3 to full diameter. Used in screw feeders to provide uniform withdrawal of lumpy materials. Generally equivalent to and more economical than variable pitch.

SHORT PITCH, SINGLE FLIGHT



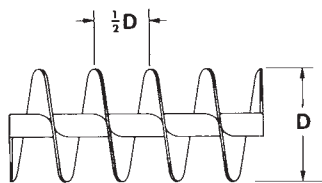
Flight pitch is reduced to 2/3 diameter. Recommended for inclined or vertical applications. Used in screw feeders. Shorter pitch reduces flushing of materials which fluidize.

SINGLE CUT-FLIGHT, STANDARD PITCH



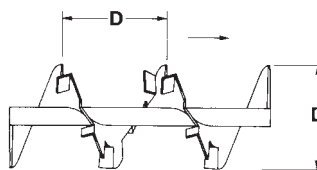
Screws are notched at regular intervals at outer edge. Affords mixing action and agitation of material in transit. Useful for moving materials which tend to pack.

HALF PITCH, SINGLE FLIGHT



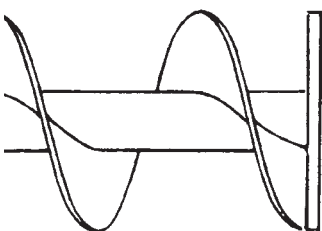
Similar to short pitch except pitch is reduced to 1/2 standard pitch. Useful for inclined applications, for screw feeders and for handling extremely fluid materials.

CUT & FOLDED FLIGHT, STANDARD PITCH



Folded flight segments lift and spill the material. Partially retarded flow provides thorough mixing action. Excellent for heating, cooling or aerating light substances.

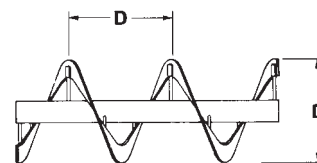
END DISC ON CONVEYOR SCREW



Price on Application

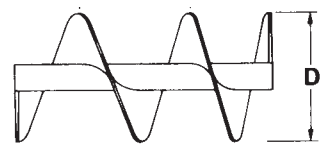
An end disc is the same diameter as the screw and is welded flush with the end of the pipe shaft at its discharge end and, of course, rotates with the screw. The end disc helps to keep discharging material away from the trough end seal.

SINGLE FLIGHT RIBBON



Excellent for conveying sticky or viscous materials. Open space between flighting and pipe eliminate collection and build-up of material.

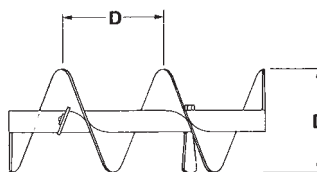
VARIABLE PITCH, SINGLE FLIGHT



Price on Application

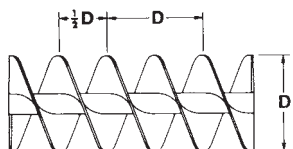
Flights have increasing pitch and are used in screw feeders to provide uniform withdrawal of fine, free flowing materials over the full length of the inlet opening.

STANDARD PITCH WITH PADDLES



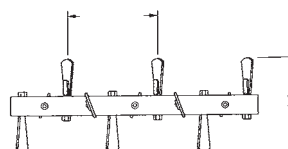
Adjustable paddles positioned between screw flights opposed flow to provide gentle but thorough mixing action.

DOUBLE FLIGHT, STANDARD PITCH



Double flight, standard pitch screws provide smooth regular material flow and uniform movement of certain types or materials.

PADDLE



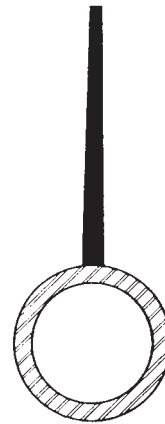
Adjustable paddles provide complete mixing action, and controlled material flow.

Conveyor Screws

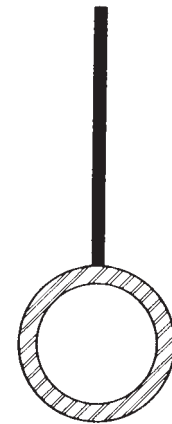


Helicoid flights are formed in a special rolling machine by forming a steel strip into a continuous one-piece helix of the desired diameter, pitch and thickness to fit conveyor screw pipes. The helicoid flight is tapered in cross section, with the thickness at the inner edge approximately twice the thickness of the outer edge.

Sectional flights are individual flights or turns blanked from steel plates and formed into a spiral or helix of the desired diameter and pitch to fit conveyor screw pipes. The flights are butt welded together to form a continuous conveyor screw. Modifications can be furnished, such as, fabrication from various metals, different flight thicknesses, other diameters and pitches. The butt weld flight is the same thickness in the full cross section.



Helicoid Flight



Sectional Flight

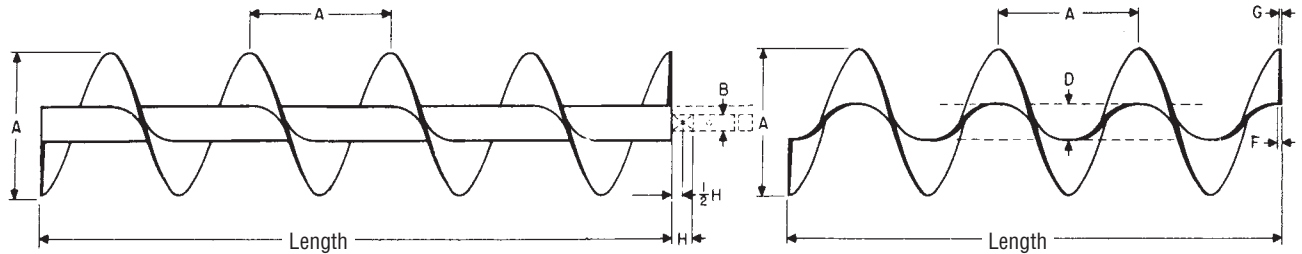
Key to Conveyor Size Designation

The letter “H” indicates screw conveyor with helicoid flighting. The figures to the left of the letters indicate the nominal outside diameter of the conveyor in inches. The first figure following the letters is twice the diameter of the couplings in inches. The last two figures indicate the nominal thickness of flighting at the outer edge in 1/64". Thus conveyor 12H408 indicates 12" diameter helicoid conveyor for 2" couplings with flighting 8/64" or 1/8" thickness at outer edge. Hand of conveyor is indicated by “R” or “L” following the designation.

Comparison Table • helicoid flight and sectional flight conveyor screws

Screw Diameter	Helicoid Flight						Sectional Flight			
	Conveyor Screw Size Designation ▽	Former Designation	Coupling Diameter	Nominal Inside Diameter of Pipe	Thickness of Flight		Conveyor Screw Size Designation ▽	Coupling Diameter	Nominal Inside Diameter of Pipe	Thickness of Flight
					Inner Edge	Outer Edge				
4	4H206	4 X	1	1 3/8	3/16	3/32	—	—	—	—
6	6H304	6 Standard	1 1/2	2	1/8	1/16	—	—	—	—
	6H308	6 X	1 1/2	2	1/4	1/8	6S309	1 1/2	2	10 ga.
	6H312	6 XX	1 1/2	2	3/8	3/16	6S312	1 1/2	2	3/16 in.
9	9H306	9 Standard	1 1/2	2	3/16	3/32	9S307	1 1/2	2	12 ga.
	9H406	9 Special	2	2 1/2	3/16	3/32	9S407	2	2 1/2	12 ga.
	9H312	9 X	1 1/2	2	3/8	3/16	9S312	1 1/2	2	3/16 in.
	9H412	9 XX	2	2 1/2	3/8	3/16	9S412	2	2 1/2	3/16 in.
	9H414	—	2	2 1/2	7/16	7/32	9S416	2	2 1/2	1/4 in.
10	10H306	10 Standard	1 1/2	2	3/16	3/32	10S309	1 1/2	2	10 ga.
	10H412	10 XX	2	2 1/2	3/8	3/16	10S412	2	2 1/2	3/16 in.
12	12H408	12 Standard	2	2 1/2	1/4	1/8	12S409	2	2 1/2	10 ga.
	12H508	12 Special	2 7/16	3	1/4	1/8	12S509	2 7/16	3	10 ga.
	12H412	12 X	2	2 1/2	3/8	3/16	12S412	2	2 1/2	3/16 in.
	12H512	12 XX	2 7/16	3	3/8	3/16	12S512	2 7/16	3	3/16 in.
	12H614	—	3	3 1/2	7/16	7/32	12S616	3	3 1/2	1/4 in.
14	14H508	14 Standard	2 7/16	3	1/4	1/8	14S509	2 7/16	3	10 ga.
	14H614	14 XX	3	3 1/2	7/16	7/32	14S616	3	3 1/2	1/4 in.
16	16H610	16 Standard	3	3 1/2	5/16	5/32	16S609	3	3 1/2	10 ga.
	16H614	—	3	4	7/16	7/32	16S616	3	3 1/2	1/4 in.
18	18H610	—	3	3 1/2	5/16	5/32	18S609	3	3 1/2	10 ga.

▽ Size designation: Examples: 12H412 and 12S412.
 12 = screw diameter in inches
 H = helicoid flight
 S = sectional flight
 4 = 2 times 2" coupling diameter
 12 = thickness of flight at periphery in increments of 1/64"



Helicoid Conveyor Screw

Flighting

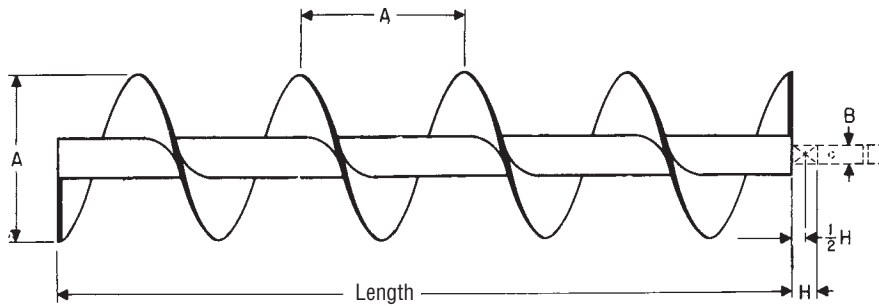
Screw Diameter	Coupling Diameter	Size Part No. Conveyor Mounted	Size Part No. Flighting Only	D Pipe Size		Flight Thickness		H Coupling Bearing Length	Standard Length Feet - Inches	Average Weight			
				Nominal Inside	Outside	F Inside	G Outside			Complete Screw		Flighting Only	
										Standard Length	Per Foot	Standard Length	Per Foot
4	1	4H206-*	4HF206-*	1 3/8	1 5/8	3/16	3/32	1 1/2	9 - 10 1/2	40	4	16	1.3
6	1 1/2	6H304-*	6HF304-*	2	2 3/8	1/8	1/16	2	9 - 10	52	5	14	1.4
	1 1/2	6H308-*	6HF308-*	2	2 3/8	1/4	1/8	2	9 - 10	62	6	28	2.8
	1 1/2	6H312-*	6HF312-*	2	2 3/8	3/8	3/16	2	9 - 10	72	7	42	4.3
9	1 1/2	9H306-*	9HF306-*	2	2 3/8	3/16	3/32	2	9 - 10	70	7	31	3.2
	1 1/2	9H312-*	9HF312-*	2	2 3/8	3/8	3/16	2	9 - 10	101	10	65	6.1
	2	9H406-*	9HF406-*	2 1/2	2 7/8	3/16	3/32	2	9 - 10	91	9	30	3.0
	2	9H412-*	9HF412-*	2 1/2	2 7/8	3/8	3/16	2	9 - 10	121	12	60	6.6
10	2	9H414-*	9HF414-*	2 1/2	2 7/8	7/16	7/32	2	9 - 10	131	13	70	6.3
	1 1/2	10H306-*	10HF306-*	2	2 3/8	3/16	3/32	2	9 - 10	81	8	48	4.9
12	2	10H412-*	10HF412-*	2 1/2	2 7/8	3/8	3/16	2	9 - 10	130	13	76	7.7
	2	12H408-*	12HF408-*	2 1/2	2 7/8	1/4	1/8	2	11 - 10	140	12	67	5.7
	2	12H412-*	12HF412-*	2 1/2	2 7/8	3/8	3/16	2	11 - 10	180	15	102	8.6
	2 7/16	12H508-*	12HF508-*	3	3 1/2	1/4	1/8	3	11 - 9	168	14	64	5.4
	2 7/16	12H512-*	12HF512-*	3	3 1/2	3/8	3/16	3	11 - 9	198	17	96	8.2
14	3	12H614-*	12HF614-*	3 1/2	4	7/16	7/32	3	11 - 9	220	18	112	9.3
	2 7/16	14H508-*	14HF508-*	3	3 1/2	1/4	1/8	3	11 - 9	170	14	84	7.1
	3	14H614-*	14HF614-*	3 1/2	4	7/16	7/32	3	11 - 9	254	22	132	11.2
16	3	16H610-*	16HF610-*	3 1/2	4	5/16	5/32	3	11 - 9	228	19	120	10.0
18 ▽	3	16H614-*	16HF614-*	4	4 1/2	7/16	7/32	3	11 - 9	285	24	154	11.7
18 ▽	3	18H610-*	18HF610-*	3 1/2	4	5/16	5/32	3	11 - 9	282	24	167	13.9

▽ Offered only in full pitch helicoid flighting.

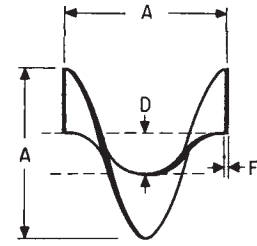
-* R For Right Hand

-* L For Left Hand

Conveyor Screws (Sectional)



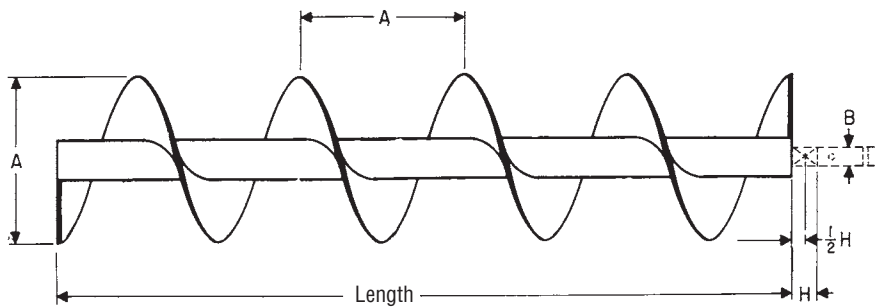
Sectional Conveyor Screw



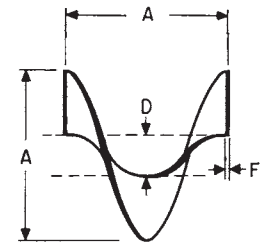
Flight

A Screw Diameter	B Coupling Diameter	Size Part No. Conveyor Mounted	Size Part No. Lighting Only	Pipe Size		F Flight Thickness	H Coupling Bearing Length	Standard Length Feet-Inches	Average Weight			Approx. Flight Per Foot
				Nominal Inside	D Outside				Standard Length	Per Foot	Flight Each	
6	1 1/2	6S312-*	6SF312-*	2	2 3/8	3/16	2	9 - 10	75	7.5	1.7	2.0
	1 1/2	6S316-*	6SF316-*	2	2 3/8	1/4	2	9 - 10	90	8.0	2.2	2.0
9	1 1/2	9S312-*	9SF312-*	2	2 3/8	3/16	2	9 - 10	95	9.5	4.3	1.33
	1 1/2	9S316-*	9SF316-*	2	2 3/8	1/4	2	9 - 10	130	13.0	5.5	1.33
	1 1/2	9S324-*	9SF324-*	2	2 3/8	3/8	2	9 - 10	160	16.0	7.9	1.33
	2	9S412-*	9SF412-*	2 1/2	2 7/8	3/16	2	9 - 10	115	11.5	4.3	1.33
	2	9S416-*	9SF416-*	2 1/2	2 7/8	1/4	2	9 - 10	130	13.0	5.5	1.33
	2	9S424-*	9SF424-*	2 1/2	2 7/8	3/8	2	9 - 10	160	16.0	7.9	1.33
10	1 1/2	10S312-*	10SF312-*	2	2 3/8	3/16	2	9 - 10	120	12.0	5.0	1.2
	1 1/2	10S316-*	10SF316-*	2	2 3/8	1/4	2	9 - 10	135	13.5	6.7	1.2
	1 1/2	10S324-*	10SF324-*	2	2 3/8	3/8	2	9 - 10	165	16.5	8.7	1.2
	2	10S412-*	10SF412-*	2 1/2	2 7/8	3/16	2	9 - 10	120	12.0	5.0	1.2
	2	10S416-*	10SF416-*	2 1/2	2 7/8	1/4	2	9 - 10	135	13.5	6.7	1.2
	2	10S424-*	10SF424-*	2 1/2	2 7/8	3/8	2	9 - 10	165	16.5	8.7	1.2
12	2	12S412-*	12SF412-*	2 1/2	2 7/8	3/16	2	11 - 10	156	13.0	7.2	1.0
	2	12S416-*	12SF416-*	2 1/2	2 7/8	1/4	2	11 - 10	204	17.0	9.7	1.0
	2	12S424-*	12SF424-*	2 1/2	2 7/8	3/8	2	11 - 10	268	22.3	12.7	1.0
	2 7/16	12S509-*	12SF509-*	3	3 1/2	10 Ga.	3	11 - 9	160	14.0	5.7	1.0
	2 7/16	12S512-*	12SF512-*	3	3 1/2	3/16	3	11 - 9	178	14.8	7.2	1.0
	2 7/16	12S516-*	12SF516-*	3	3 1/2	1/4	3	11 - 9	210	17.5	9.7	1.0
	2 7/16	12S524-*	12SF524-*	3	3 1/2	3/8	3	11 - 9	274	22.5	12.7	1.0
	3	12S612-*	12SF612-*	3 1/2	4	3/16	3	11 - 9	198	16.5	7.2	1.0
	3	12S616-*	12SF616-*	3 1/2	4	1/4	3	11 - 9	216	18.0	9.7	1.0
3	12S624-*	12SF624-*	3 1/2	4	3/8	3	11 - 9	280	24.0	12.7	1.0	

-* R For Right Hand
-* L For Left Hand



Sectional Conveyor Screw



Flight

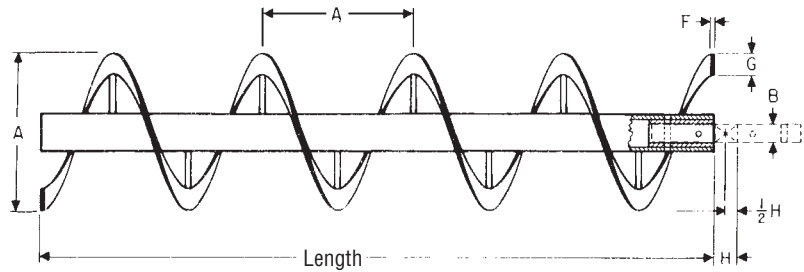
Screw Diameter	Coupling Diameter	Size Part No. Conveyor Mounted	Size Part No. Flighting Only	Pipe Size		F Flight Thickness	H Coupling Bearing Length	Standard Length Feet-Inches	Average Weight			Approx. Flight Per Foot
				Nominal Inside	D Outside				Standard Length	Per Foot	Flight Each	
14	2 7/16	14S512-*	14SF512-*	3	3 1/2	3/16	3	11 - 9	214	18.0	9.9	.86
	2 7/16	14S516-*	14SF516-*	3	3 1/2	1/4	3	11 - 9	240	20.0	13.2	.86
	2 7/16	14S524-*	14SF524-*	3	3 1/2	3/8	3	11 - 9	330	27.5	19.8	.86
	3	14S612-*	14SF612-*	3 1/2	4	3/16	3	11 - 9	222	19.0	9.9	.86
	3	14S616-*	14SF616-*	3 1/2	4	1/4	3	11 - 9	246	21.0	13.2	.86
	3	14S624-*	14SF624-*	3 1/2	4	3/8	3	11 - 9	342	29.0	19.8	.86
16	3	16S612-*	16SF612-*	3 1/2	4	3/16	3	11 - 9	234	20.0	14.0	.75
	3	16S616-*	16SF616-*	3 1/2	4	1/4	3	11 - 9	282	24.0	18.0	.75
	3	16S624-*	16SF624-*	3 1/2	4	3/8	3	11 - 9	365	31.0	25.5	.75
	3	16S632-*	16SF632-*	3 1/2	4	1/2	3	11 - 9	402	33.5	36.0	.75
18	3	18S612-*	18SF612-*	3 1/2	4	3/16	3	11 - 9	246	21.0	18.0	.67
	3	18S616-*	18SF616-*	3 1/2	4	1/4	3	11 - 9	294	25.0	24.0	.67
	3	18S624-*	18SF624-*	3 1/2	4	3/8	3	11 - 9	425	36.0	34.5	.67
	3	18S632-*	18SF632-*	3 1/2	4	1/2	3	11 - 9	530	44.0	46.0	.67
	3 7/16	18S712-*	18SF712-*	4	4 1/2	3/16	4	11 - 8	293	24.4	18.0	.67
	3 7/16	18S716-*	18SF716-*	4	4 1/2	1/4	4	11 - 8	345	28.8	24.0	.67
	3 7/16	18S724-*	18SF724-*	4	4 1/2	3/8	4	11 - 8	470	39.2	34.5	.67
	3 7/16	18S732-*	18SF732-*	4	4 1/2	1/2	4	11 - 8	570	47.5	46.0	.67
20	3	20S612-*	20SF612-*	3 1/2	4	3/16	3	11 - 9	300	26.0	20.0	.60
	3	20S616-*	20SF616-*	3 1/2	4	1/4	3	11 - 9	360	31.0	28.0	.60
	3	20S624-*	20SF624-*	3 1/2	4	3/8	3	11 - 9	410	33.4	40.0	.60
	3	20S632-*	20SF632-*	3 1/2	4	1/2	3	11 - 9	506	42.2	56.0	.60
	3 7/16	20S712-*	20SF712-*	4	4 1/2	3/16	4	11 - 8	310	27.0	20.0	.60
	3 7/16	20S716-*	20SF716-*	4	4 1/2	1/4	4	11 - 8	370	32.0	28.0	.60
24	3 7/16	24S724-*	24SF724-*	4	4 1/2	3/8	4	11 - 8	424	36.0		

-* R For Right Hand
-* L For Left Hand

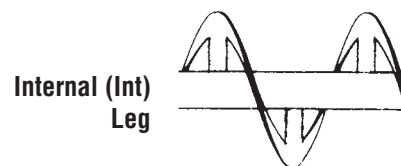
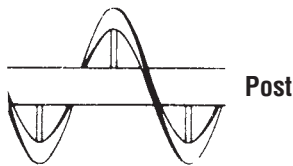
Conveyor Screws (Ribbon)



Ribbon flight conveyor screws consist of sectional flights, butt-welded together to form a continuous helix. Flights are secured to the pipe by supporting legs. Both ends of the pipe are prepared with internal collars and drilling to accept couplings, drive shafts, and end shafts. They are used to convey sticky, gummy, or viscous substances, or where the material tends to adhere to flighting and pipe.



Ribbon Conveyor Screw

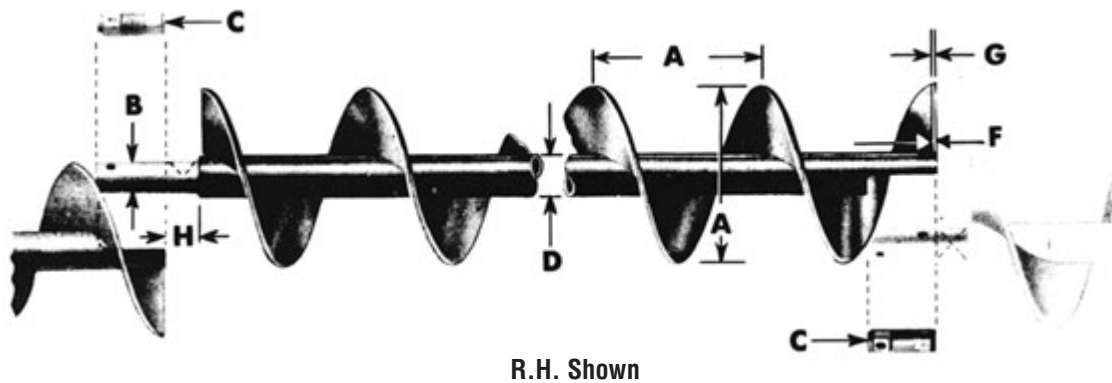


A Screw Diameter	B Coupling Diameter	Size Part No. Conveyor Mounted	Pipe Size		Flight Size		H Coupling Bearing Length	Standard Length Feet-Inches	Weight Complete Screw	
			Inside	Outside	F Thickness	G Width			Standard Length	Per Foot
6	1 1/2	6R312-*	2	2 3/8	3/16	1	2	9 - 10	65	6.5
9	1 1/2	9R316-*	2	2 3/8	1/4	1 1/2	2	9 - 10	100	10
10	1 1/2	10R316-*	2	2 3/8	1/4	1 1/2	2	9 - 10	110	11
12	2	12R416-*	2 1/2	2 7/8	1/4	2	2	11 - 10	180	15
	2	12R424-*	2 1/2	2 7/8	3/8	2 1/2	2	11 - 10	216	19
	2 7/16	12R524-*	3	3 1/2	3/8	2 1/2	3	11 - 9	240	21
14	2 7/16	14R516-*	3	3 1/2	1/4	2 1/2	3	11 - 9	228	19
	2 7/16	14R524-*	3	3 1/2	3/8	2 1/2	3	11 - 9	264	22
	3	14R624-*	3 1/2	4	3/8	2 1/2	3	11 - 9	288	25
16	3	16R616-*	3 1/2	4	1/4	2 1/2	3	11 - 9	276	24
	3	16R624-*	3 1/2	4	3/8	2 1/2	3	11 - 9	324	28
18	3	18R624-*	3 1/2	4	3/8	3	3	11 - 9	384	33
20	3 7/16	20R724-*	4	4 1/2	3/8	3	4	11 - 8	408	35
24	3 7/16	24R724-*	4	4 1/2	3/8	3	4	11 - 8	424	36

-* R For Right Hand
-* L For Left Hand

Quick Detachable (QD) Helicoid Conveyor

QD — Quick Detachable conveyor screws are designed for convenient removal from the conveyor assembly. Each section of screw has a QD cap at one end of the pipe. By removing this cap, a conveyor screw section can quickly and easily be removed and returned to the conveyor assembly without disturbing the other screw sections. Quick Detachable conveyor can be furnished both in helicoid and butt-weld construction.

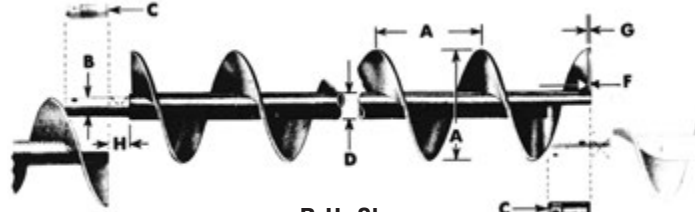


A Nominal Screw Diameter	Size Part No. Conveyor Mounted	B Coupling Diameter	Standard Length Feet-Inches End to End of Pipe	C Cap Part Number	D Pipe Size		Flight Thickness Ft.-In.		H Coupling Bearing Length	Average Weight	
					Inside	Outside	F Inside	G Outside		Standard Length	Per Foot
6	6HQ304-*	1 1/2	9-10	3QDC2	2	2 3/8	1/8	1/16	2	52	5
	6HQ308-*						1/4	1/8		62	6
	6HQ312-*						3/8	3/16		72	7
9	9HQ306-*	1 1/2	9-10	3QDC2	2	2 3/8	3/16	3/32	2	70	7
	9HQ312-*						3/8	3/16		101	10
	9HQ406-*	2	9-10	4QDC25	2 1/2	2 7/8	3/16	3/32	2	91	9
	9HQ412-*						3/8	3/16		121	12
	9HQ414-*						7/16	7/32		131	13
10	10HQ306-*	1 1/2	9-10	3QDC2	2	2 3/8	3/16	3/32	2	81	8
	10HQ412-*	2	9-10	4QDC25	2 1/2	2 7/8	3/8	3/16	2	130	13
12	12HQ408-*	2	11-10	4QDC25	2 1/2	2 7/8	1/4	1/8	2	140	12
	12HQ412-*						3/8	3/16		180	15
	12HQ508-*	2 7/16	11-9	5QDC3	3	3 1/2	1/4	1/8	3	168	14
	12HQ512-*						3/8	3/16		198	17
	12HQ614-*						3	7/16		7/32	220	18
14	14HQ508-*	2 7/16	11-9	5QDC3	3	3 1/2	1/4	1/8	3	170	14
	14HQ614-*	3	11-9	6QDC35	3 1/2	4	7/16	7/32	3	254	22
16	16HQ610-*	3	11-9	6QDC35	3 1/2	4	5/16	5/32	3	228	19
	16HQ614-*	3	11-9	6QDC4	4	4 1/2	7/16	7/32	3	285	23.8
18	18HQ610-*	3	11-9	6QDC4	3 1/2	4	5/16	5/32	3	282	13.9

-* R For Right Hand
 -* L For Left Hand

Conveyor Screws

Quick Detachable (QD) Sectional Spiral Conveyors

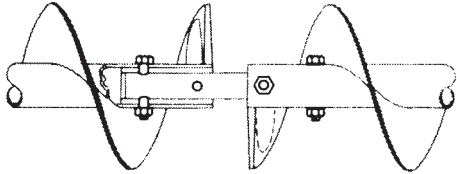


R.H. Shown

A Nominal Screw Diameter	Size Part No. Conveyor Mounted	B Coupling Diameter	Standard Length Feet-Inches End to End of Pipe	C Cap Part Number	D Pipe Size		F Flight Thickness	H Coupling Bearing Length	Average Weight		
					Inside	Outside			Standard Length	Per Foot	
6	6SQ307-*	1 1/2	9-10	3QDC2	2	2 3/8	12	2	62	6.2	
	6SQ309-*						10				65
	6SQ312-*						3/16				75
	6SQ316-*						1/4				90
9	9SQ307-*	1 1/2	9-10	3QDC2	2	2 3/8	12	2	73	7.3	
	9SQ309-*						10		80	8.0	
	9SQ312-*						3/16		95	9.5	
	9SQ316-*						1/4		120	13	
	9SQ407-*	2	9-10	4QDC25	2 1/2	2 7/8	12	2	90	9	
	9SQ409-*						10		100	10	
	9SQ412-*						3/16		115	11.5	
	9SQ416-*						1/4		130	13.0	
9SQ424-*	3/8	160	16								
10	10SQ309-*	1 1/2	9-10	3QDC2	2	2 3/8	10	2	85	8.5	
	10SQ412-*	2	9-10	4QDC25	2 1/2	2 7/8	3/16	2	120	12.0	
	10SQ416-*						1/4		135	13.5	
12	12SQ409-*	2	11-10	4QDC25	2 1/2	2 7/8	10	2	140	12.0	
	12SQ412-*						3/16		156	13.0	
	12SQ416-*						1/4		204	17	
	12SQ509-*	2 7/16	11-9	5QDC3	3	3 1/2	10	3	160	14	
	12SQ512-*						3/16		178	15	
	12SQ612-*						3/16		191	16.5	
	12SQ616-*						1/4		216	18.0	
12SQ624-*	3	11-9	6QDC35	3 1/2	4	3/8	3	280	24		
14	14SQ509-*	2 7/16	11-9	5QDC3	3	3 1/2	10	3	185	16	
	14SQ512-*						3/16		214	18	
	14SQ612-*	3	11-9	6QDC35	3 1/2	4	3/16	3	222	19	
	14SQ616-*						1/4		246	21	
	14SQ624-*						3/8		342	29	
16	16SQ609-*	3	11-9	6QDC35	3 1/2	4	10	3	210	18	
	16SQ612-*						3/16		234	20	
	16SQ616-*						1/4		282	24	
	16SQ624-*						3/8		365	31	
18	18SQ612-*	3	11-9	6QDC35	3 1/2	4	3/16	3	246	21	
	18SQ616-*						1/4		294	25	
	18SQ624-*						3/8		425	36	
20	20SQ612-*	3	11-9	6QDC35	3 1/2	4	3/16	3	300	26	
	20SQ616-*						1/4		360	31	
	20SQ724-*	3 7/16	11-8	7QDC4	4	4 1/2	3/8	4	475	40	
24	24SQ712-*	3 7/16	11-8	7QDC4	4	4 1/2	3/16	4	410	37	
	24SQ716-*						1/4		510	43	
	24SQ724-*						3/8		595	50	

-* R For Right Hand
-* L For Left Hand

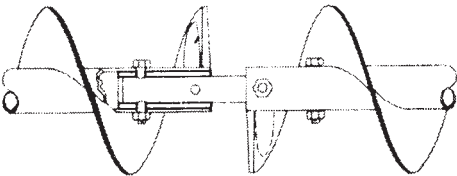
Coupling Bolts



Conveyor coupling bolts are manufactured from special analysis high-torque steel. Close tolerance for a minimum of wear. Lock nuts are furnished with each bolt.

Coupling Diameter	Outside Pipe Diameter	Bolt Size	Part Number Standard	Weight Each (lb)
1	1 5/8	3/8 × 2 1/16	CCB2	.13
1 1/2	2 3/8	1/2 × 3	CCB3	.2
2	2 7/8	5/8 × 3 5/8	CCB4	.45
2 7/16	3 1/2	5/8 × 4 3/8	CCB5	.5
3	4	3/4 × 5	CCB6	.85
3	4 1/2	3/4 × 5 1/2	CCB6A	.9
3 7/16	4 1/2	7/8 × 5 1/2	CCB7	1.29

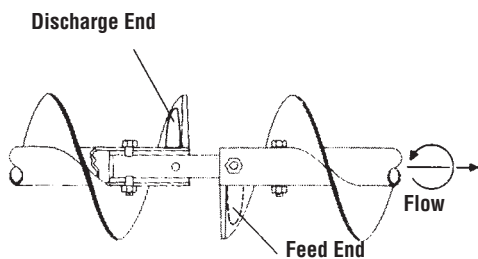
Internal Collar



Internal collars are made from seamless tubing machined for a press fit in the conveyor pipe. When installed at the factory collars are jig drilled and plug welded into the pipe. No drilling in replacement collars is furnished allowing for field drilling to match existing bolt holes.

Coupling Diameter	Inside Pipe Diameter	Part Number Standard	Weight Each (lb)
1	1 1/4	CIC2	.58
1 1/2	2	CIC3	2.06
2	2 1/2	CIC4	2.16
2 7/16	3	CIC5	3.72
3	3 1/2	CIC6	4.03
3	4	CIC6A	8.03
3 7/16	4	CIC7	6.52

End Lugs



Internal collars are made from seamless tubing machined for a press fit in the conveyor pipe. When installed at the factory collars are jig drilled and plug welded into the pipe. No drilling in replacement collars is furnished allowing for field drilling to match existing bolt holes.

Conveyor Diameter	Part Number		Weight Each (lb)
	Intake End Standard	Discharge End Standard	
6	6CELI-*	6CELD-*	.06
9	9CELI-*	9CELD-*	.15
10	9CELI-*	9CELD-*	.15
12	12CELI-*	12CELD-*	.2
14	12CELI-*	12CELD-*	.2
16	16CELI-*	16CELD-*	.4
18	16CELI-*	16CELD-*	.4
20	16CELI-*	16CELD-*	.4
24	16CELI-*	16CELD-*	.4

-* R For Right Hand
-* L For Left Hand

Shaft



Coupling Shafts



Coupling Part

CC — Coupling Shaft Std.*
 CCC — Close Coupling Shaft
 CHE — Hanger End Shaft*

Coupling Diameter

2 — 1" 5 — 2 7/16"
 3 — 1 1/2" 6 — 3"
 4 — 2" 7 — 3 7/16"

* Add suffix H if Hardened

<p>COUPLING</p>		<p>Conveyor couplings are used to join individual lengths of conveyor screws and allow for rotation within the hanger bearing. C-1045 steel couplings are normally furnished; however couplings with hardened bearing surfaces may be furnished where highly abrasive materials are being conveyed. Jig drilling allows for ease of installation.</p>
<p>CLOSE</p>		<p>Close couplings are used to adjoin conveyor screws where no hanger is required. Jig drilling allows for ease of installation.</p>

Drive & End Shafts



Drive Shaft Number

1 — #1 Drive Shaft Only
 2 — #2 Single Bearing Pedestal
 3 — #3 Double Bearing Pedestal

Type

CD — Drive Shaft
 CE — End Shaft

Coupling Diameter

2 — 1" 5 — 2 7/16"
 3 — 1 1/2" 6 — 3"
 4 — 2" 7 — 3 7/16"

Bearing Type

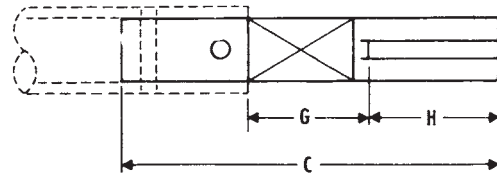
BB — Ball
 RB — Roller

Seal Type

(Delete if without seal)
 P — Plate
 W — Waste Pack

<p>END</p>		<p>End shafts serve only to support the end conveyor section and are therefore usually supplied in cold rolled steel. End shafts are jig drilled for ease of assembly and close diametral tolerances are held for proper bearing operation.</p>
<p>HANGER END</p>		<p>Hanger end shafts are designed to connect only one conveyor section to a hanger bearing. These shafts may also be used in pairs to divide an excessively long conveyor assembly between two drives.</p>
<p>#1 DRIVE</p>		<p>No. 1 drive shafts are normally used where standard end plates are furnished. Jig drilling allows for ease of installation.</p>
<p>SPECIAL DRIVE</p>		<p>Length, bearing location, seals and keyway location and size as required.</p>

No. 1 drive shafts are normally used where standard end plates are furnished. Jig drilling allows for ease of installation.



No. 1 Drive Shaft Used Without Seal*

Bronze Bearing						Ball Bearing					
Shaft Diameter	Part Number	C	G	H	Weight	Shaft Diameter	Part Number	C	G	H	Weight
1	1CD2B	9 1/2	3 1/2	3	2.0	1	1CD2BB	9	3	3	1.8
1 1/2	1CD3B	12 3/4	4 3/4	3 1/4	6.3	1 1/2	1CD3BB	11 1/2	3 1/2	3 1/4	5.6
2	1CD4B	15	5 3/4	4 1/2	13.3	2	1CD4BB	13 1/8	3 7/8	4 1/2	11.5
2 7/16	1CD5B	17 3/8	7	5 1/2	21.0	2 7/16	1CD5BB	15 1/8	4 3/4	5 1/2	18.0
3	1CD6B	19 1/8	8 1/8	6	37.0	3	1CD6BB	16 5/8	5 5/8	6	32.0
3 7/16	1CD7B	23	9	7 1/4	60.4	3 7/16	1CD7BB	20 5/8	6 5/8	7 1/4	52.5

*Consult Factory

No. 1 Drive Shaft Used With Plate or Product Drop Out Seals*

Bronze Bearing						Ball Bearing					
Shaft Diameter	Part Number	C	G	H	Weight	Shaft Diameter	Part Number	C	G	H	Weight
1	1CD2B-P	10	4	3	2.1	1	1CD2BB-P	9 1/2	3 1/2	3	2.0
1 1/2	1CD3B-P	13 1/4	5 1/4	3 1/4	6.6	1 1/2	1CD3BB-P	12 3/8	4 3/8	3 1/4	6.2
2	1CD4B-P	15 1/4	6 1/4	4 1/2	14.1	2	1CD4BB-P	14	4 3/4	4 1/2	12.5
2 7/16	1CD5B-P	18 3/8	8	5 1/2	24.3	2 7/16	1CD5BB-P	15 7/8	5 1/2	5 1/2	21.0
3	1CD6B-P	19 5/8	8 5/8	6	38.0	3	1CD6BB-P	17 1/2	6 1/2	6	35.0
3 7/16	1CD7B-P	24 1/8	10 1/8	7 1/4	61.0	3 7/16	1CD7BB-P	21 1/2	7 1/2	7 1/4	56.5

*Consult Factory

No. 1 Drive Shaft Used With Waste Pack Seal*

Bronze Bearing						Ball Bearing					
Shaft Diameter	Part Number	C	G	H	Weight	Shaft Diameter	Part Number	C	G	H	Weight
1	1CD2B-W	11	4 1/4	3	2.2	1	1CD2BB-W	10 1/2	3 3/4	3.0	2.0
1 1/2	1CD3B-W	14 1/2	6 1/2	3 1/4	7.2	1 1/2	1CD3BB-W	13 1/4	5 1/4	3.3	6.4
2	1CD4B-W	16 3/4	7 1/4	4 1/2	14.9	2	1CD4BB-W	14 7/8	5 5/8	4.5	13.0
2 7/16	1CD5B-W	19 1/8	8 3/4	5 1/2	23.3	2 7/16	1CD5BB-W	16 7/8	6 1/2	5.5	20.5
3	1CD6B-W	20 7/8	9 7/8	6	40.5	3	1CD6BB-W	18 3/8	7 3/8	6.0	35.5
3 7/16	1CD7B-W	25 7/8	11 7/8	7 1/4	66.3	3 7/16	1CD7BB-W	22 7/8	8 7/8	7.3	58.4

Shaft length allows for 1/2 hanger bearing length as clearance between end plate and screw

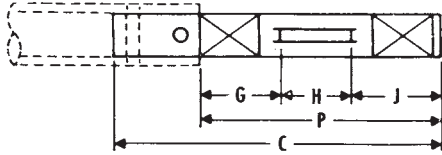
*Consult Factory

No. 2 and No. 3 Drive Shafts



No. 2 Drive Shaft

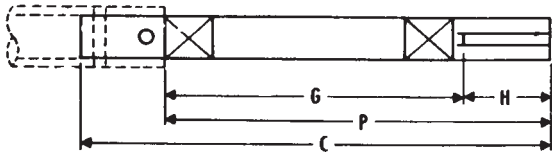
No. 2 drive shafts are used where pedestal type trough ends with single bearing are furnished. Jig drilling allows for ease of installation.



Shaft Diameter	Part Number	C	G	H	J	P	Weight
1	2CD2	11	3 1/4	2 1/4	2 1/2	8	2.5
1 1/2	2CD3	16 1/2	5	3 1/4	3 1/2	11 3/4	8.3
2	2CD4	18 3/4	5 1/4	4 1/4	4 1/2	14	17.0
2 7/16	2CD5	21 7/8	6	5 1/2	5 1/2	17	29.0
3	2CD6	23 1/2	6 1/2	5 1/2	6 1/2	18 1/2	49.0
3 7/16	2CD7	27	6 3/4	6	7 1/2	20 1/4	75.0

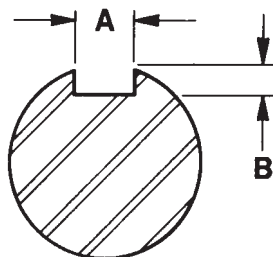
No. 3 Drive Shaft

No. 3 drive shafts are used where pedestal type trough ends with double bearings are furnished. Jig drilling allows for ease of installation.



Shaft Diameter	Part Number	C	G	H	P	Weight
1	3CD2	15 1/2	9 1/4	3	12 1/4	3
1 1/2	3CD3	20 1/4	12 1/2	3 1/4	15 3/4	10
2	3CD4	22	12 3/4	4 1/2	17 1/4	21
2 7/16	3CD5	24 5/8	14 1/4	5 1/2	19 3/4	36
3	3CD6	25 7/8	14 3/4	6	20 3/4	62
3 7/16	3CD7	29 7/8	15 7/8	7 1/4	23 1/8	95

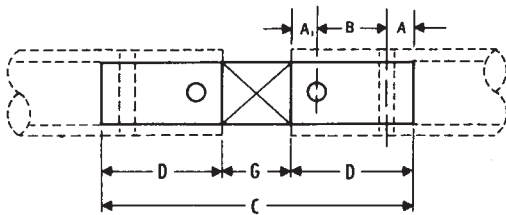
Drive Shaft Keyways



Shaft Diameter	A	B
1	1/4	1/8
1 1/2	3/8	3/16
2	1/2	1/4
2 7/16	5/8	5/16
3	3/4	3/8
3 7/16	7/8	7/16

Coupling

Conveyor couplings are used to join individual lengths of conveyor screws and allow for rotation within the hanger bearing. Mild steel couplings are normally furnished; however induction hardened bearing area couplings may be furnished where highly abrasive materials are being conveyed. Jig drilling allows for ease of installation.



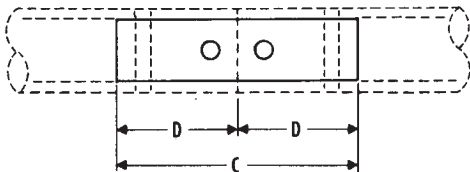
Shaft Diameter	Part Number*	A ₁	A	B	C	D	G	Weight
1	CC2	1/2	1/2	2	7 1/2	3	1 1/2	1.5
1 1/2	CC3	7/8	7/8	3	11 1/2	4 3/4	2	5.6
2	CC4	7/8	7/8	3	11 1/2	4 3/4	2	9.8
2 7/16	CC5	15/16	15/16	3	12 13/16	4 7/8	3	15.4
3	CC6	1	1	3	13	5	3	23.8
3 7/16	CC7	1 1/2	1 1/4	4	17 1/2	6 3/4	4	44.5

*Add — H for Hardened Shaft.

Shaft is induction hardened in bearing area only to 40-50 RC.

Close Coupling

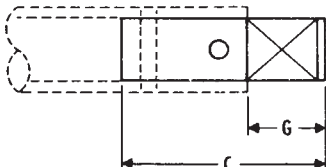
Close couplings are used to adjoin conveyor screws where no hanger is required. Jig drilling allows for ease of installation.



Shaft Diameter	Part Number*	C	D	Weight
1	CCC2	6	3	1.3
1 1/2	CCC3	9 1/2	4 3/4	4.8
2	CCC4	9 1/2	4 3/4	8.5
2 7/16	CCC5	9 3/4	4 7/8	13.0
3	CCC6	10	5	20.0
3 7/16	CCC7	13 1/2	6 3/4	37.0

Hanger End

Hanger end shafts are designed to connect only one conveyor section to a hanger bearing. These shafts may also be used in pairs to divide an excessively long conveyor assembly between two drives.



Shaft Diameter	Part Number*	C	G	Weight
1	CHE2	4 5/8	1 5/8	1.0
1 1/2	CHE3	6 7/8	2 1/8	3.5
2	CHE4	6 7/8	2 1/8	6.2
2 7/16	CHE5	8 1/8	3 1/4	10.6
3	CHE6	8 1/4	3 1/4	16.5
3 7/16	CHE7	11 1/4	4 1/4	29.7

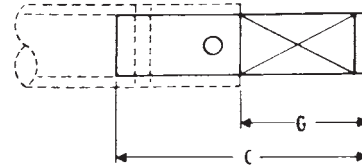
*Add — H for Hardened Shaft

Shaft is induction hardened in bearing area only to 40-50 RC.

End Shaft



End shafts serve only to support the end conveyor section and are therefore usually supplied in cold rolled steel. End shafts are jig drilled for ease of assembly and close diametrical tolerances are held for proper bearing operation.



End Shaft Used Without Seal**

Bronze Bearing					Ball Bearing				
Shaft Diameter	Part Number*	C	G	Weight	Shaft Diameter	Part Number*	C	G	Weight
1	CE2B	6 1/2	3 1/2	1.4	1	CE2BB	6	3	1.2
1 1/2	CE3B	9 1/4	4 1/2	4.5	1 1/2	CE3BB	8 1/4	3 1/2	3.8
2	CE4B	10 1/4	5 1/2	9.0	2	CE4BB	8 5/8	3 7/8	7.5
2 7/16	CE5B	11 7/8	7	15.4	2 7/16	CE5BB	9 5/8	4 3/4	12.4
3	CE6B	13 1/8	8 1/8	25.6	3	CE6BB	10 5/8	5 5/8	20.8
3 7/16	CE7B	16 3/8	9 5/8	42.4	3 7/16	CE7BB	13 3/8	6 5/8	34.4

*Add - H for Hardened Shaft.

**Shaft length allows for 1/2 hanger bearing length, clearance between end plate and screw.

Consult Factory

End Shaft Used With Plate or Product Drop Out Seal**

Bronze Bearing					Ball Bearing				
Shaft Diameter	Part Number*	C	G	Weight	Shaft Diameter	Part Number*	C	G	Weight
1	CE2B-P	7	4	1.5	1	CE2BB-P	6 1/2	3 1/2	1.4
1 1/2	CE3B-P	10 1/4	5 1/2	5.1	1 1/2	CE3BB-P	9	4 5/16	4.5
2	CE4B-P	11 1/4	6 1/2	10.0	2	CE4BB-P	9 3/8	4 5/8	8.3
2 7/16	CE5B-P	12 7/8	8	17.0	2 7/16	CE5BB-P	10 1/8	5 5/16	13.1
3	CE6B-P	13 5/8	8 5/8	29.8	3	CE6BB-P	11 1/2	6 1/2	23.0
3 7/16	CE7B-P	16 7/8	10 1/8	44.0	3 7/16	CE7BB-P	14 1/8	7 3/8	37.1

*Add - H for Hardened Shaft.

**Shaft length allows for 1/2 hanger bearing length, clearance between end plate and screw.

Consult Factory

End Shaft Used With Waste Pack Seal**

Bronze Bearing					Ball Bearing				
Shaft Diameter	Part Number*	C	G	Weight	Shaft Diameter	Part Number*	C	G	Weight
1	CE2B-W	8	5	1.6	1	CE2BB-W	7 1/2	3 3/4	1.4
1 1/2	CE3B-W	11	6 1/4	5.2	1 1/2	CE3BB-W	10	5 1/4	4.8
2	CE4B-W	12	7 1/4	10.4	2	CE4BB-W	10 3/8	5 5/8	9.0
2 7/16	CE5B-W	13 5/8	8 3/4	17.6	2 7/16	CE5BB-W	11 3/8	6 1/2	14.8
3	CE6B-W	14 7/8	9 7/8	28.2	3	CE6BB-W	12 3/8	7 3/8	24.0
3 7/16	CE7B-W	18 5/8	11 7/8	48.0	3 7/16	CE7BB-W	15 5/8	8 7/8	40.2

*Add - H for Hardened Shaft.

**Shaft length allows for 1/2 hanger bearing length, clearance between end plate and screw.

Consult Factory

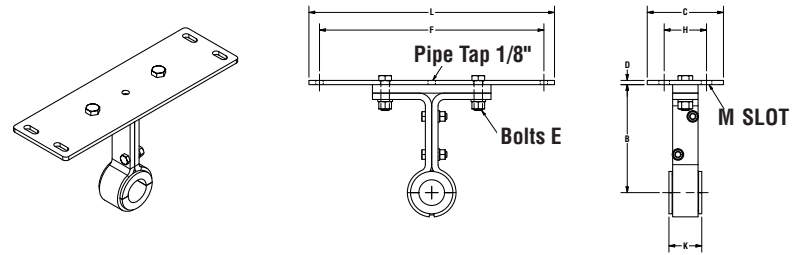
<p>STYLE 226</p>		<p>No. 226 hangers are designed for flush mounting inside the trough permitting dust-tight or weather-proof operation. This type hanger allows for minimum obstruction of material flow in high capacity conveyors. Available with friction type bearing.</p>
<p>STYLE 216</p>		<p>No. 216 hangers are designed for heavy duty applications. This hanger is flush mounted inside the trough permitting dust tight or weather proof operation. Hard iron or bronze bearings are normally furnished; however, the hanger can be furnished with other bearings.</p>
<p>STYLE 220</p>		<p>No. 220 hangers are designed for mount on top of the trough flanges and may be used where dust-tight or weather proof operation is not required. This type hanger allows for minimum obstruction of material flow in high capacity conveyors. Available with friction type bearing.</p>
<p>STYLE 230</p>		<p>No. 230 hangers are designed for heavy duty applications where mounting on top of the trough flanges is required. Hard iron or bronze bearings are normally furnished; however, other bearings are available.</p>
<p>STYLE 316</p>		<p>No. 316 hangers are designed for heavy duty use in conveyors where abnormal heat requires unequal expansion between the screw and conveyor trough. Hard iron or bronze bearings are normally furnished; however, this hanger can be furnished with other bearings.</p>
<p>STYLE 326</p>		<p>No. 326 hangers are designed to permit minimum obstruction of material flow and are used in conveyors where abnormal heat requires unequal expansion between the screw and the conveyor trough. Hard iron or bronze bearings are normally furnished, but other type bearings are available.</p>

Hangers

<p>STYLE 60</p>		<p>No. 60 hangers are furnished with a heavy duty, permanently lubricated and sealed, self aligning ball bearing which permits temperatures up to 245° F. and will allow for up to 4° shaft misalignment. This hanger is mounted on top of the trough flanges. Grease fitting can be furnished if specified.</p>
<p>STYLE 70</p>		<p>No. 70 hangers are furnished with a heavy duty, permanently lubricated and sealed, self aligning ball bearing which permit temperatures up to 245° F. and will allow for up to 4° shaft misalignment. This hanger is mounted inside the trough. Grease fittings can be furnished if specified.</p>
<p>STYLE 30</p>		<p>No. 30 hangers are designed for side mounting within the conveyor trough on the noncarrying side and permit a minimum of obstruction of material flow. Available with friction type bearing.</p>
<p>STYLE 216F</p>		<p>No. 216F hangers are designed for heavy duty applications and are mounted inside of flared trough. Hard iron or bronze bearings are normally furnished; however, other bearings are available.</p>
<p>STYLE 19B</p>		<p>The No. 19B hanger is similar in construction to the No. 18B except they are mounted on top of the trough angles. Built-in ledges provide supports for the ends of the cover. They are streamline in design and permit free passage of the material. They are regularly furnished with Arguto oil impregnated wood, hard iron, bronze, or other special caps can be furnished.</p>
<p>AIR-PURGED HANGER</p>		<p>Air-Purged hangers are recommended when handling dusty and abrasive materials which contribute to shutdowns and hanger bearing failures. Air-swept hangers are available for 9"-24" conveyors. They should not be used when handling hot materials (over 250° F) or wet sticky materials or when handling non abrasive materials when an inexpensive hanger will do the job satisfactorily. In service, air-purged hangers deliver relatively trouble-free operation. They help solve noise nuisance problems, and they help reduce power requirement because of the low coefficient of friction. Maximum trough loading should not exceed 15%. The air, at approximately 1-1/4 PSI enters the housing at the top, passes over and around the bearing, and is dissipated around the coupling shaft on both sides of the housing. Thus the bearing is protected from dust and the material in the trough at all times. Only 3 to 7 cu. ft. of air per minute is required to keep each hanger bearing clean.</p>

Style 220

Conveyor couplings are used to join individual lengths of conveyor screws and allow for rotation within the hanger bearing. Mild steel couplings are normally furnished; however induction hardened bearing area couplings may be furnished where highly abrasive materials are being conveyed. Jig drilling allows for ease of installation.

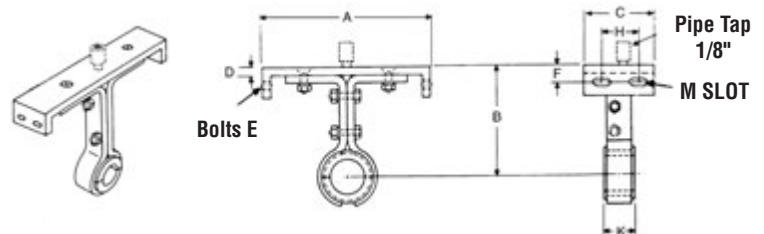


Conveyor Diameter	Coupling Size	Part Number*	B	C	D	E	F	H	K	L	M Slot	Weight Each
4	1	4CH2202	3 5/8	3 1/2	3/16	1/4	6 1/2	2	1 1/2	7 1/4	5/16 × 3/4	5
6	1 1/2	6CH2203	4 1/2	4 1/2	3/16	3/8	8 3/4	2 1/2	2	9 3/4	7/16 × 1 1/16	7
9	1 1/2	9CH2203	6 1/8	4 1/2	1/4	3/8	12 1/4	2 1/2	2	13 1/2	7/16 × 1 1/16	9
	2	9CH2204	6 1/8	4 1/2	1/4	3/8	12 1/4	2 1/2	2	13 1/2		11
10	1 1/2	10CH2203	6 3/8	4 1/2	1/4	3/8	13 1/4	2 1/2	2	14 1/2	7/16 × 1 1/16	10
	2	10CH2204	6 3/8	4 1/2	1/4	3/8	13 1/4	2 1/2	2	14 1/2		12
12	2	12CH2204	7 3/4	5	3/8	1/2	15 3/4	2 1/2	2	17 1/2	9/16 × 1 5/16	16
	2 7/16	12CH2205	7 3/4	5	3/8	1/2	15 3/4	2 1/2	3	17 1/2		21
	3	12CH2206	7 3/4	5	3/8	1/2	15 3/4	2 1/2	3	17 1/2		28
14	2 7/16	14CH2205	9 1/4	5	1/2	1/2	17 3/4	2 1/2	3	19 1/2	9/16 × 1 5/16	26
	3	14CH2206	9 1/4	5	1/2	1/2	17 3/4	2 1/2	3	19 1/2		33
16	3	16CH2206	10 5/8	5	1/2	1/2	19 3/4	2 1/2	3	21 1/2	9/16 × 1 5/16	39
	3 7/16	18CH2207	12 1/8	6	1/2	5/8	22 1/4	3 1/2	3	24 1/2		11/16 × 13/16	41
18	3	18CH2206	12 1/8	6	1/2	5/8	22 1/4	3 1/2	4	24 1/2	49	
	20	3	20CH2206	13 1/2	6	1/2	5/8	24 1/4	3 1/2	3	26 1/2	11/16 × 13/16	43
3 7/16		20CH2207	13 1/2	6	1/2	5/8	24 1/4	3 1/2	4	26 1/2	51	
24	3 7/16	24CH2207	16 1/2	6	5/8	5/8	28 1/4	3 1/2	4	30 1/2	11/16 Hole	57

*Refer to Page H-99 for bearings. For hangers with oil pipe add -0 to part number

Style 226

No. 226 hangers are designed for flush mounting inside the trough permitting dust-tight or weather-proof operation. This type hanger allows for minimum obstruction of material flow in high capacity conveyors. Also available with friction type bearing.



Conveyor Diameter	Coupling Size	Part Number*	A	B	C	D	E	F	H	K	M Slot	Weight Each
4	1	4CH2262	5	3 5/8	3 1/2	3/16	1/4	11/16	2	1 1/2	5/16 × 5/16	5
6	1 1/2	6CH2263	7	4 1/2	4 1/2	3/16	3/8	3/4	2 1/2	2	7/16 × 1 1/16	7
9	1 1/2	9CH2263	10	6 1/8	4 1/2	1/4	3/8	1	2 1/2	2	7/16 × 1 1/16	9
	2	9CH2264	10	6 1/8	4 1/2	1/4	3/8	1				11
10	1 1/2	10CH2263	11	6 3/8	4 1/2	1/4	3/8	1	2 1/2	2	7/16 × 1 1/16	10
	2	10CH2264	11	6 3/8	4 1/2	1/4	3/8	1				12
12	2	12CH2264	13	7 3/4	5	3/8	1/2	1 1/4	2 1/2	3	9/16 × 1 5/16	16
	2 7/16	12CH2265	13	7 3/4	5	3/8	1/2	1 1/4				21
	3	12CH2266	13	7 3/4	5	3/8	1/2	1 1/4				28
14	2 7/16	14CH2265	15	9 1/4	5	1/2	1/2	1 3/8	2 1/2	3	9/16 × 1 5/16	26
	3	14CH2266	15	9 1/4	5	1/2	1/2	1 3/8				33
16	3	16CH2266	17	10 5/8	5	1/2	1/2	1 3/8	2 1/2	3	9/16 × 1 5/16	39
	3 7/16	18CH2267	19	12 1/8	6	1/2	5/8	1 1/2				3 1/2	4	11/16 × 1 11/16	41
18	3	18CH2266	19	12 1/8	6	1/2	5/8	1 1/2	49			
	20	3	20CH2266	21	13 1/2	6	1/2	5/8	1 1/2	3 1/2	4	11/16 × 1 11/16	43
3 7/16		20CH2267	21	13 1/2	6	1/2	5/8	1 1/2	51			
24	3 7/16	24CH2267	25	16 1/2	6	5/8	5/8	1 5/8	3 1/2	4	11/16 × 1 11/16	57

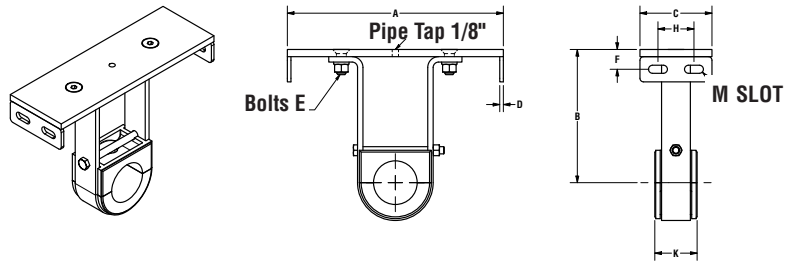
*Refer to Page H-99 for bearings. For hangers with oil pipe add -0 to part number

Hangers



Style 216

No. 216 hangers are designed for heavy duty applications. This hanger is flush mounted inside the trough permitting dust tight or weather proof operation. Hard iron or bronze bearings are normally furnished; however, the hanger can be furnished with other bearings.

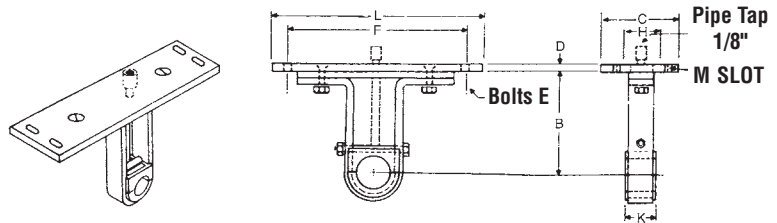


Conveyor Diameter	Coupling Size	Part Number*	A	B	C	D	E	F	H	K	M Slot	Weight Each
6	1 1/2	6CH2163	7	4 1/2	4 1/2	3/16	3/8	3/4	2 1/2	2	7/16 × 1 1/16	5
9	1 1/2	9CH2163	10	6 1/8	4 1/2	1/4	3/8	1	2 1/2	2	7/16 × 1 1/16	7
	2	9CH2164	10	6 1/8	4 1/2	1/4	3/8	1	2 1/2	2		9
10	1 1/2	10CH2163	11	6 3/8	4 1/2	1/4	3/8	1	2 1/2	2	7/16 × 1 1/16	8
	2	10CH2164	11	6 3/8	4 1/2	1/4	3/8	1	2 1/2	2		10
12	2	12CH2164	13	7 3/4	5	3/8	1/2	1 1/4	2 1/2	2	9/16 × 1 5/16	14
	2 7/16	12CH2165	13	7 3/4	5	3/8	1/2	1 1/4	2 1/2	3		18
	3	12CH2166	13	7 3/4	5	3/8	1/2	1 1/4	2 1/2	3		21
14	2 7/16	14CH2165	15	9 1/4	5	1/2	1/2	1 3/8	2 1/2	3	9/16 × 1 5/16	23
	3	14CH2166	15	9 1/4	5	1/2	1/2	1 3/8	2 1/2	3		25
16	3	16CH2166	17	10 5/8	5	1/2	1/2	1 3/8	2 1/2	3	9/16 × 1 5/16	28
	3	18CH2166	19	12 1/8	6	1/2	5/8	1 1/2	3 1/2	3		11/16 × 1 11/16	34
18	3 7/16	18CH2167	19	12 1/8	6	1/2	5/8	1 1/2	3 1/2	4	44	
	20	3	20CH2166	21	13 1/2	6	1/2	5/8	1 1/2	3 1/2	3	11/16 × 1 11/16	36
3 7/16		20CH2167	21	13 1/2	6	1/2	5/8	1 1/2	3 1/2	4	47	
24	3 7/16	24CH2167	25	16 1/2	6	5/8	5/8	1 5/8	3 1/2	4	11/16 × 1 11/16	53

*Refer to Page H-99 for bearings. For hangers with oil pipe add -0 to part number

Style 230

No. 230 hangers are designed for heavy duty applications where mounting on top of the trough flange is required. Hard iron or bronze bearings are normally furnished; however, other bearings are available.

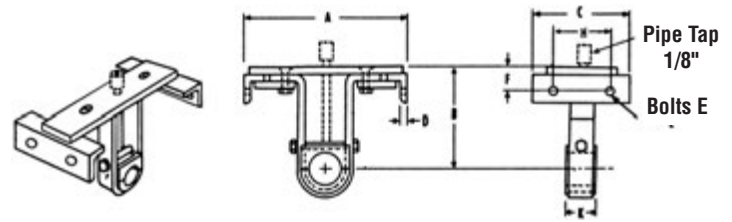


Conveyor Diameter	Coupling Size	Part Number*	B	C	D	E	F	H	K	L	M Slot	Weight Each
6	1 1/2	6CH2303	4 1/2	4 1/2	3/16	3/8	8 3/4	2 1/2	2	9 3/4	7/16 × 1 1/16	6
9	1 1/2	9CH2303	6 1/8	4 1/2	1/4	3/8	12 1/4	2 1/2	2	13 1/2	7/16 × 1 1/16	8
	2	9CH2304	6 1/8	4 1/2	1/4	3/8	12 1/4	2 1/2	2	13 1/2		10
10	1 1/2	10CH2303	63/8	4 1/2	1/4	3/8	13 1/4	2 1/2	2	14 1/2	7/16 × 1 1/16	9
	2	10CH2304	63/8	4 1/2	1/4	3/8	13 1/4	2 1/2	2	14 1/2		11
12	2	12CH2304	7 3/4	5	3/8	1/2	15 3/4	2 1/2	2	17 1/2	9/16 × 1 5/16	15
	2 7/16	12CH2305	7 3/4	5	3/8	1/2	15 3/4	2 1/2	3	17 1/2		20
	3	12CH2306	7 3/4	5	3/8	1/2	15 3/4	2 1/2	3	17 1/2		25
14	2 7/16	14CH2305	9 1/4	5	1/2	1/2	17 3/4	2 1/2	3	19 1/2	9/16 × 1 5/16	24
	3	14CH2306	9 1/4	5	1/2	1/2	17 3/4	2 1/2	3	19 1/2		29
16	3	16CH2306	10 5/8	5	1/2	1/2	19 3/4	2 1/2	3	21 1/2	9/16 × 1 5/16	35
	3	18CH2306	12 1/8	6	1/2	5/8	22 1/4	3 1/2	3	24 1/2		1 1/16 × 13/16	34
18	3 7/16	18CH2307	12 1/8	6	1/2	5/8	22 1/4	3 1/2	4	24 1/2	47	
	20	3	20CH2306	13 1/2	6	1/2	5/8	24 1/4	3 1/2	3	26 1/2	1 1/16 × 13/16	40
3 7/16		20CH2307	13 1/2	6	1/2	5/8	24 1/4	3 1/2	4	26 1/2	49	
24	3 7/16	24CH2307	16 1/2	6	5/8	5/8	28 1/4	3 1/2	4	30 1/2	1 1/16 Holes	55

*Refer to Page H-99 for bearings. For hangers with oil pipe add -0 to part number

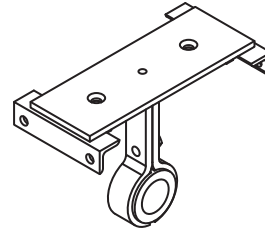
Style 316

No. 316 hangers are designed for heavy duty use in conveyors where abnormal heat requires unequal expansion between the screw and conveyor trough. Hard iron or bronze bearings are normally used; however, this hanger can be furnished with other bearings.



Style 326

No. 326 hangers are designed to permit minimum obstruction of material flow and are used in conveyors where abnormal heat requires unequal expansion between the screw and the conveyor trough. Hard iron or bronze bearings are normally used, but other type bearings are available.

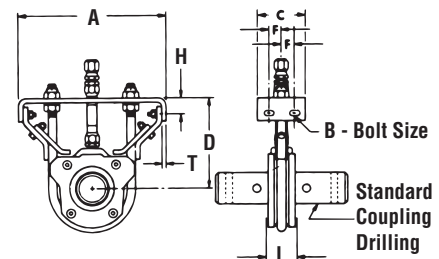
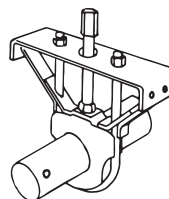


Conveyor Diameter	Coupling Size	Part Number		A	B	C	D	E	F	H	K
		Style 316*	Style 326*								
6	1 1/2	6CH3163	6CH3263	7	4 1/2	6	3/16	3/8	3/4	4 1/2	2
9	1 1/2	9CH3163	9CH3263	10	6 1/8	6	3/16	3/8	1	4 1/2	2
	2	9CH3164	9CH3264	10	6 1/8	6	3/16	3/8	1	4 1/2	2
10	1 1/2	10CH3163	10CH3263	11	6 3/8	6	3/16	3/8	1	4 1/2	2
	2	10CH3164	10CH3264	11	6 3/8	6	3/16	3/8	1	4 1/2	2
12	2	12CH3164	12CH3264	13	7 3/4	6 1/2	1/4	1/2	1 1/4	5	2
	2 7/16	12CH3165	12CH3265	13	7 3/4	6 1/2	1/4	1/2	1 1/4	5	3
	3	12CH3166	12CH3266	13	7 3/4	6 1/2	1/4	1/2	1 1/4	5	3
14	2 7/16	14CH3165	14CH3265	15	9 1/4	6 1/2	1/4	1/2	1 3/8	5	3
	3	14CH3166	14CH3266	15	9 1/4	6 1/2	1/4	1/2	1 3/8	5	3
16	3	16CH3166	16CH3266	17	10 5/8	6 1/2	1/4	1/2	1 3/8	5	3
18	3	18CH3166	18CH3266	19	12 1/8	7	1/4	5/8	1 5/8	5 1/4	3
	3 7/16	18CH3167	18CH3267	19	12 1/8	7	1/4	5/8	1 5/8	5 1/4	4
20	3	20CH3166	20CH3266	21	13 1/2	7	1/4	5/8	1 5/8	5 1/4	3
	3 7/16	20CH3167	20CH3267	21	13 1/2	7	1/4	5/8	1 5/8	5 1/4	4
24	3 7/16	24CH3167	24CH3267	25	16 1/2	7	1/4	5/8	1 3/4	5 1/4	4

*Refer to Page H-99 for bearings. For hangers with oil pipe add -0 to part number

Air-Purged Hanger

Air purged hangers are recommended when handling dusty and abrasive materials which contribute to shut-downs and hanger bearing failures. They should not be used when handling hot materials (over 250°F) or wet sticky materials or when handling nonabrasive materials when an inexpensive hanger will do the job satisfactorily. Maximum trough loading should not exceed 15%. The air, at approximately 11/4 PSI, enters the housing at the top, passes over and around the bearing, and is dissipated around the coupling shaft on both sides of the housing. Only 3 to 7 cu. ft. of air per minute is required to keep each hanger bearing clean.



Conveyor Diameter	Coupling Size	Part Number		A	B	C	D	F	H	L	T
		Style 316*	Style 326*								
9	9CHAPH3	1 1/2	15	10	3/8	4 1/2	6 1/8	1 1/4	1	2	1/4
	9CHAPH4	2	20								
12	12CHAPH4	2	30	13	1/2	5	7 1/4	1 1/4	1 1/4	2	1/4
	12CHAPH5	2 7/16	52								
	12CHAPH6	3	68								
14	14CHAPH5	2 7/16	60	15	1/2	5	9 1/4	1 1/4	1 3/8	3	3/8
	14CHAPH6	3	74								
16	16CHAPH6	3	77	17	1/2	5	10 5/8	1 1/4	1 3/8	3	1/8
18	18CHAPH6	3	91	19	5/8	6	12 1/8	1 3/4	1 5/8	3	1/2
20	20CHAPH6	3	105	21	5/8	6	13 1/2	1 3/4	1 3/8	3	1/2
	20CHAPH7	3 7/16	140								
24	24CHAPH7	3 7/16	155	25	5/8	6	16 1/2	1 3/4	1 5/8	4	1/2

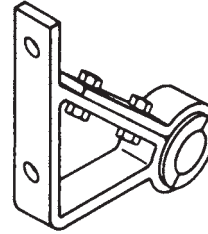
*Refer to Page H-99 for bearings. For hangers with oil pipe add -0 to part number

Hangers



Style 30

No. 30 hangers are designed for side mounting within the conveyor trough on the non-carrying side and permit a minimum of obstruction of material flow. Available with friction type bearing.

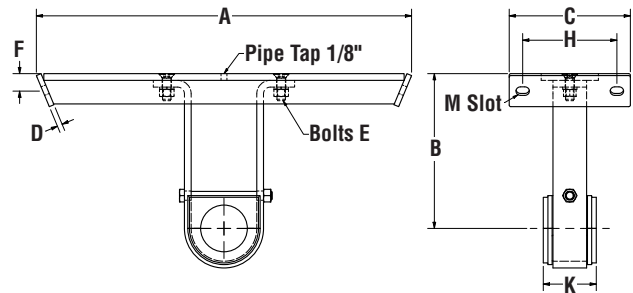
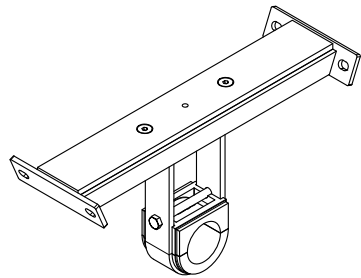


Conveyor Diameter	Coupling Size	Part Number*	A	B	C	D	E	F	G	H	Weight Each
6	1 1/2	6CH303	3 1/2	4 1/4	1 1/2	3/8	5/16	3 1/8	1/2	2	3
9	1 1/2	9CH303	5	5 7/8	1 1/2	3/8	3/8	4 1/4	1/2	2	6
	2	9CH304	5	5 7/8	1 1/2	1/2	3/8	4 1/4	1/2	2	8
10	1 1/2	10CH303	5 1/2	6 3/8	1 1/2	3/8	1/2	4 3/8	3/4	2	8
	2	10CH304	5 1/2	6 3/8	1 1/2	1/2	1/2	4 3/8	3/4	2	9
12	2	12CH304	6 1/2	7 1/2	1 1/2	1/2	1/2	5 1/2	3/4	2	12
	2 7/16	12CH305	6 1/2	7 1/2	2	1/2	1/2	5 1/2	3/4	3	18
	3	12CH306	6 1/2	7 1/2	2	5/8	1/2	5 1/2	3/4	3	20
14	2 7/16	14CH305	7 1/2	9	2	1/2	5/8	6 7/8	7/8	3	20
	3	14CH306	7 1/2	9	2	5/8	5/8	6 7/8	7/8	3	22
16	3	16CH306	8 1/2	10 3/8	2	5/8	5/8	8	1	3	32
18	3	18CH306	9 1/2	11 7/8	2	3/4	5/8	8	1 1/4	3	30
	3 7/16	18CH307	9 1/2	11 7/8	3	3/4	5/8	8	1 1/4	4	33
20	3	20CH306	10 1/2	13 1/4	2	3/4	5/8	10 1/4	1 1/4	3	32
	3 7/16	20CH307	10 1/2	13 1/4	3	3/4	5/8	10 1/4	1 1/4	4	38
24	3 7/16	24CH307	12 1/2	16 1/4	3	3/4	3/4	12 3/4	1 1/2	4	46

*Refer to Page H-99 for bearings. For hangers with oil pipe add -0 to part number

Style 216F

No. 216F hangers are designed for heavy duty applications and are mounted inside of flared trough. Hard iron or bronze bearings are normally furnished; however, other bearings are available.

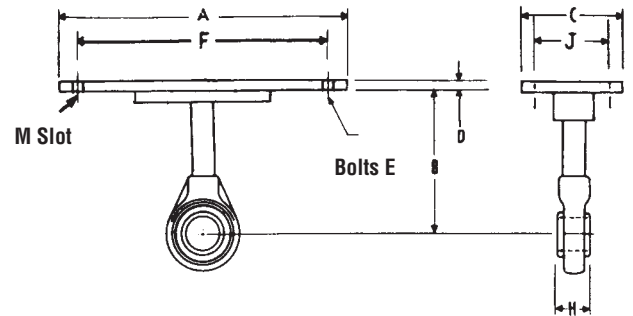
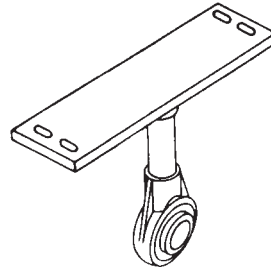


Conveyor Diameter	Coupling Size	Part Number*	A	B	C	D	E	F	H	K	Weight Each	M Slot
6	1 1/2	6CH216F3	14	7	7 1/2	1/4	3/8	7/8	6	2	9	7/16 × 3/4
9	1 1/2	9CH216F3	18	9	9	3/16	3/8	1	7	2	14	7/16 × 15/16
	2	9CH216F4									17	
12	2	12CH216F4								2	24	9/16 × 15/16
	2 7/16	12CH216F5	22	10	9	3/8	1/2	1 1/4	7	3	28	
14	3	12CH216F6									32	9/16 × 15/16
	2 7/16	14CH216F5	24	11	9	3/8	1/2	1 1/8	7	3	31	
16	3	14CH216F6									34	11/16 × 1
	3	16CH216F6	28	11 1/2	9	1/2	5/8	1 1/4	7	3	38	
18	3	18CH216F6	31	12 1/8	10	1/2	5/8	1 1/2	8	3	52	11/16 × 15/16
	3 7/16	18CH216F7								4	61	
20	3	20CH216F6	34	13 1/2	10	1/2	5/8	1 1/2	8	3	55	11/16 × 15/16
	3 7/16	20CH216F7								4	64	
24	3 7/16	24CH216F7	40	16 1/2	10	5/8	5/8	1 5/8	8	4	71	11/16 × 15/16

*Refer to Page H-99 for bearings. For hangers with oil pipe add -0 to part number

Style 60

No. 60 hangers are furnished with a heavy duty, permanently lubricated and sealed, self-aligning ball bearing which permits temperatures up to 245° F. and will allow for up to 4° shaft misalignment. This hanger is mounted on top of the trough flanges. Grease fitting can be furnished if specified.

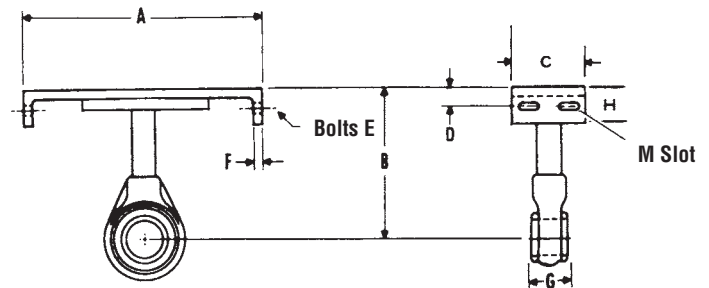


Conveyor Diameter	Coupling Size	Part Number*	A	B	C	D	E	F	H	J	Weight Each	M Slot
6	1 1/2	6CH603	9 3/4	4 1/2	4 1/2	3/16	3/8	8 3/4	1 11/16	2	7	7/16 × 11/16
9	1 1/2	9CH603	13 1/2	6 1/8	4 1/2	1/4	3/8	12 1/4	1 11/16	2 1/2	8	7/16 × 11/16
	2	9CH604	13 1/2	6 1/8	4 1/2	1/4	3/8	12 1/4	1 3/4	2 1/2	9	7/16 × 11/16
10	1 1/2	10CH603	14 1/2	6 3/8	4 1/2	1/4	3/8	13 1/4	1 11/16	2 1/2	9	7/16 × 15/16
	2	10CH604	14 1/2	6 3/8	4 1/2	1/4	3/8	13 1/4	1 3/4	2 1/2	10	7/16 × 15/16
12	2	12CH604	17 1/2	7 3/4	5	3/8	1/2	15 3/4	1 3/4	2 1/2	12	9/16 × 15/16
	2 7/16	12CH605	17 1/2	7 3/4	5	3/8	1/2	15 3/4	1 63/64	2 1/2	20	9/16 × 15/16
	3	12CH606	17 1/2	7 3/4	5	3/8	1/2	15 3/4	2 11/16	2 1/2	30	9/16 × 15/16
14	2 7/16	14CH605	19 1/2	9 1/4	5	1/2	1/2	17 3/4	1 63/64	2 1/2	21	9/16 × 15/16
	3	14CH606	19 1/2	9 1/4	5	1/2	1/2	17 3/4	2 11/32	2 1/2	32	9/16 × 15/16
16	3	16CH606	21 1/2	10 5/8	5	1/2	1/2	19 3/4	2 11/32	2 1/2	35	9/16 × 15/16
18	3	18CH606	24 1/2	12 1/8	6	1/2	5/8	22 1/4	2 11/32	3 1/2	40	11/16 × 1 11/16
20	3	20CH606	26 1/2	13 1/2	6	1/2	5/8	24 1/4	2 11/32	3 1/2	45	11/16 × 1 11/16
24	3 7/16	24CH607	30 1/2	16 1/2	6	5/8	5/8	28 1/4	2 31/64	3 1/2	58	11/16 × 1 11/16

*For hangers with oil pipe add -0 to part number

Style 70

No. 70 hangers are furnished with a heavy duty, permanently lubricated and sealed, self-aligning ball bearing which permits temperatures up to 245° F. and will allow for up to 4° shaft misalignment. This hanger is mounted inside the trough. Grease fitting can be furnished if specified.



Conveyor Diameter	Coupling Size	Part Number*	A	B	C	D	E	F	G	H	Weight Each	M Slot
6	1 1/2	6CH703	7	4 1/2	4 1/2	3/4	3/8	3/16	1 11/16	1 1/2	7	7/16 × 11/16
9	1 1/2	9CH703	10	6 1/8	4 1/2	1	3/8	1/4	1 11/16	1 3/4	8	7/16 × 11/16
	2	9CH704	10	6 1/8	4 1/2	1	3/8	1/4	1 3/4	1 3/4	9	
10	1 1/2	10CH703	11	6 3/8	4 1/2	1	3/8	1/4	1 11/16	1 3/4	9	7/16 × 11/16
	2	10CH704	11	6 3/8	4 1/2	1	3/8	1/4	1 3/4	1 3/4	10	
12	2	12CH704	13	7 3/4	5	1 1/4	1/2	3/8	1 3/4	2 1/8	12	9/16 × 15/16
	2 7/16	12CH705	13	7 3/4	5	1 1/4	1/2	3/8	1 63/64	2 1/8	20	
	3	12CH706	13	7 3/4	5	1 1/4	1/2	3/8	2 11/32	2 1/8	30	
14	2 7/16	14CH705	15	9 1/4	5	1 3/8	1/2	1/2	1 63/64	2 1/4	21	9/16 × 15/16
	3	14CH706	15	9 1/4	5	1 3/8	1/2	1/2	2 11/32	2 1/4	32	
16	3	16CH706	17	10 5/8	5	1 3/8	1/2	1/2	2 11/32	2 1/4	35	9/16 × 15/16
18	3	18CH706	19	12 1/8	6	1 1/2	5/8	1/2	2 11/32	2 1/2	40	11/16 × 13/16
20	3	20CH706	21	13 1/2	6	1 1/2	5/8	1/2	2 11/32	2 1/2	45	11/16 × 13/16
24	3 7/16	24CH707	25	16 1/2	6	1 5/8	5/8	5/8	2 11/32	2 5/8	58	11/16 Holes

*For hangers with oil pipe add -0 to part number

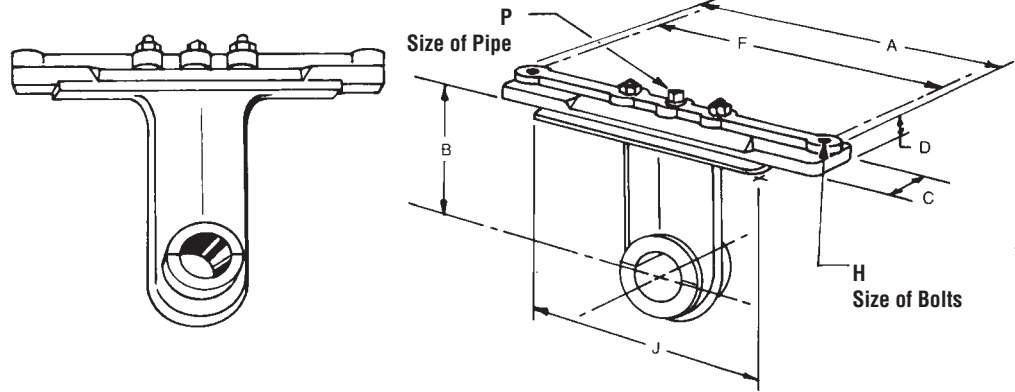
Hangers



Style 19B

The No. 19-B Hanger is similar in construction to the No. 18-B except they are mounted on top of the trough angles. Built-in ledges provide supports for the ends of the cover. They are streamlined in design and permit free passage of the material.

Top half is furnished with bronze bearing. Bottom half can be supplied in oil impregnated wood, hard iron, or other special caps may be furnished on request.



Conveyor Diameter	Coupling Size	Part Number	A	B	C	D	F	H	J	P	Weight
6	1 1/2	6CH19B3	9 7/8	4 1/2	1 7/8	7/8	8 3/4	9/16	6 1/2	1/8	8.5
9	1 1/2	9CH19B3	13 1/2	6 1/8	1 3/4	1	12 1/4	9/16	9 1/2	1/8	13.0
	2	9CH19B4	13 1/2	6 1/8	1 3/4	1	12 1/4	9/16	9 1/2	1/8	15.5
10	1 1/2	10CH19B3	14 1/2	6 3/8	1 3/4	1	13 1/4	9/16	10 1/2	1/8	14.0
	2	10CH19B4	14 1/2	6 3/8	1 3/4	1	13 1/4	9/16	10 1/2	1/8	14.0
12	2	12CH19B4	17	7 3/4	2	1 1/4	15 3/4	9/16	12 1/2	1/8	24.0
	2 7/16	12CH19B5	17	7 3/4	2 1/8	15/6	15 3/4	9/16	12 1/2	1/8	24.5
	3	12CH19B6	17	7 3/4	2 1/8	15/6	15 3/4	9/16	12 1/2	1/8	24.5
14	2 7/16	14CH19B5	19 1/4	9 1/4	3	1 1/2	17 3/4	9/16	14 1/2	1/8	37.0
	3	14CH19B6	19 1/4	9 1/4	3	1 1/2	17 3/4	9/16	14 1/4	1/8	37.0
16	3	16CH19B6	21 1/4	10 5/8	3	1 3/4	19 3/4	11/16	16 1/2	1/8	45.0
18	3	18CH19B6	23 3/4	12 1/8	3	1 5/8	22 1/4	11/16	18 1/2	1/8	48.5
20	3 7/16	20CH19B7	26 1/4	13 1/2	4	1 1/2	24 1/4	13/16	20	1/8	60.0



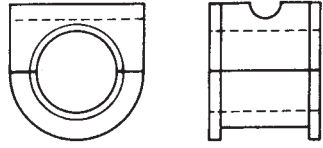
Screw Conveyor Hanger Bearing Selection Application

Bearing Material	Maximum Operating Temperature (°F)	Styles Available	Material FDA Complaint	Self Lube	Some Suggested Uses	Comments
<i>Martin</i> WHITE IRON	500°	220			Chemical, Cement, Aggregate	Requires hardened shaft. Can be noisy. Lubrication required in some applications.
ERTALYTE®	200°	220, 216	Yes		Food	Registered Trademark of Quadrant Engineering Products
GATKE	400°	220, 216			Chemical	Fiberglass fabric. Good for higher speeds.
<i>Martin</i> HARD IRON	500°	220		Yes	Chemical, Cement, Aggregate	Requires Hardened Shaft
CAST HARD IRON	500°	220, 216, 19B			Lime, Cement, Salt, Gypsum	Requires hardened shaft. Can be noisy. Lubrication required in some applications.
WOOD	160°	220, 216, 19B		Yes	Grain, Feed, Fertilizer	Good general purpose.
<i>Martin</i> BRONZE	850°	220		Yes	Grain, Feed, Processing	High quality bearings. High load capacity.
NYLATRON GS	250°	220, 19B		Yes	Chemical, Handling, Grain, Feed	Very low load capacity.
UHMW	225°	220, 216	Yes	Yes	Food	Material USDA approved. Does not swell in water.
STELLITE	1000°	220, 216			Chemical, Cement, Aggregate	Requires Stellite insert in shaft.
INDUSTRIAL GRADE ENGINEERED NYLON	160°	220		Yes	Grain, Feed, Fertilizer	Economical replacement for wood.
WHITE MELAMINE	190°	220	Yes		Food	Suitable for repeat use in food contact applications at temps not exceeding 190°F.
FOOD GRADE ENGINEERED NYLON	300°	220	Yes	Yes	Food, Grain, Fertilizer	For dry application.
BALL BEARING	180°	60, 70			Non-abrasive applications	General purpose use.
<i>Martin</i> HDPE	200°	220	Yes	Yes	Grain, Feed, Chemical Handling	Recommended for non-abrasive applications
CERAMIC ¹	1,000°	220, 216	Yes		Chemical, Cement, Food	Requires hardened shafts.
<i>Martin</i> URETHANE	200°	220		YES	Grain, Chemical, Fertilizer	Good general purpose.

¹ Higher temperature ceramics are available.

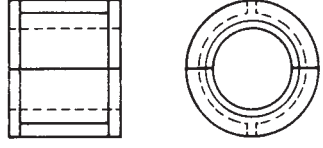
Hanger Bearings



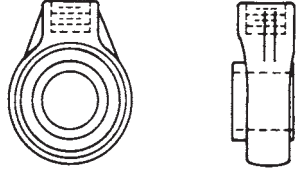
Hanger Types	Shaft Diameter	Part Number	Bearing
216 230 316	1 1/2	CHB2163*	
	2	CHB2164*	
	2 7/16	CHB2165*	
	3	CHB2166*	
	3 7/16	CHB2167*	

*H — Hard Iron *W — Wood *BR — Bronze *U — UHMW *G — Gatke *ER — Ertalyte® *C — Ceramic *ST — Stellite *UR — Urethane


*Oil hole is furnished on hard iron and bronze standard.

Hanger Types	Shaft Diameter	Part Number	Bearing
220 226 326 30	1	CHB2202*	
	1 1/2	CHB2203*	
	2	CHB2204*	
	2 7/16	CHB2205*	
	3	CHB2206*	
	3 7/16	CHB2207*	

*H — Cast Hard Iron with oil hole *W — Wood *N — Nylatron *P — HDPE *G — Gatke *ER — Ertalyte®
 *MHI — *Martin* Hard iron (oil impregnated) *MCB — Melamine (Furnished Less Flanges) *C — Ceramic *WN — White Nylon *WI — White Iron
 *MBR — *Martin* Bronze (oil impregnated) *U — UHMW *UR — Urethane

Hanger Types	Shaft Diameter	Part Number	Bearing
60 Ball Bearing 70 Ball Bearing	1 1/2	CHB603	
	2	CHB604	
	2 7/16	CHB605	
	3	CHB606	
	3 7/16	CHB607	

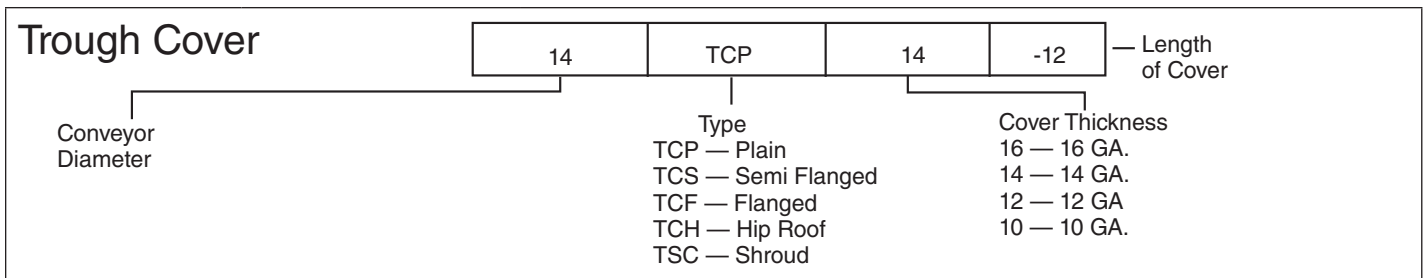
Note: New style bearings are available with slinger shield one side.

Hanger Types	Shaft Diameter	Part Number	Bearing
18B 19B	1 1/2	CHB18B3*	
	2	CHB18B4*	
	2 7/16	CHB18B5*	
	3	CHB18B6*	
	3 7/16	CHB18B7*	

*W — Wood *H — Hard Iron *N — Nylatron *G — Gatke

Note: Furnished as bottom cap only.

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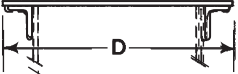
It is the responsibility of the contractor, installer, owner and user to install, maintain and operate the conveyor components and conveyor assemblies manufactured and supplied by *Martin* in such a manner as to comply with the Williams-Steiger Occupational Safety and Health Act and with all state and local laws and ordinances and the American National Standard Institute Safety Code.

FLANGED COVERS		Most commonly used. Can be supplied with gaskets and butt straps for dust tight applications. Semi-flanged must be furnished if spring clamps are used.
FLAT COVERS		Usually used only to cover conveyor for safety.
FLARED TROUGH COVERS		Usually flanged type and heavier gauges because of span.
HIP ROOF COVERS		Hip roof covers are similar to conventional flanged covers except they are peaked slightly to form a ridge along the center of the cover. A welded end plate closes the peaked section at each end of the trough while intermediate joints are usually buttstrap connected. Hip roof covers are usually recommended for outdoor installations to prevent accumulation of moisture. They are also often used in applications where a more rigid cover is required.
SHROUD COVERS		Used to approximate tubular cross section for inclined or feeder applications.
DOMED COVERS		Domed covers are half circle domes rolled to the same inside diameter as the trough bottom and are flanged for bolting to the trough top rails. They are used where venting of fumes or heat from the material being conveyed is required. End sections have a welded end plate and intermediate joints are buttstrap connected. Vent pipes or suction lines can be attached to the cover.
FEEDER SHROUDS		Shrouds are used in trough sections of screw feeders to decrease the clearance between the cover and feeder screw to obtain proper feed regulation. Lengths are sufficient to prevent flushing of the majority of materials being handled and gauges are proportioned to trough size and gauge.

Trough Covers

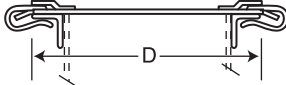


Plain Cover

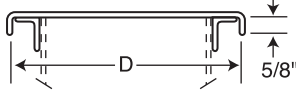


All conveyor troughs should have some type of cover not only to keep material inside the trough and to protect material in the trough from outside elements, **but trough definitely should be covered as a safety measure**, preventing injuries by keeping workers clear of the moving parts inside the conveyor trough. See H-122, Safety.

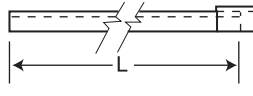
Semi-flanged Cover



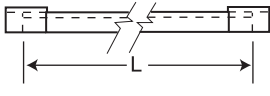
Flanged Cover



Type 1

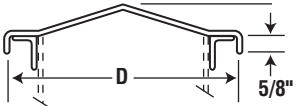


Type 2

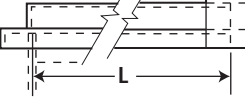


Type 3


Hip Roof Cover



End Trough Cover — Type 1



Intermediate Trough Cover — Type 2



End Trough Cover — Type 3

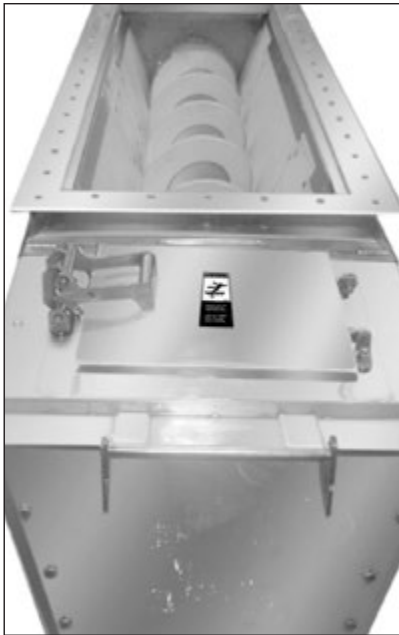
Conveyor Diameter	Plain Cover				Plain Semi-Flanged Cover				Flanged Cover				Hip Roof Cover			
	Part Number	Thickness Ga.	Wt. per ft.	D	Part Number	Thickness Ga.	Wt. per ft.	D	Part Number	Thickness Ga.	Wt. per ft.	D	Part Number	Thickness Ga.	Wt. per ft.	D
4	4TCP16	16	1.5	8	4TCS16	□ 16	2.1	8 1/8	4TCF16	□ 16	1.9	8 3/8	4TCH16	□ 16	2	
*					4TCS14	□ 14	2.6		4TCF14	□ 14	2.4		4TCH14	□ 14	2.5	8 3/8
6	6TCP16	16	2	9 3/4	6TCS16	□ 16	2.3	10 1/8	6TCF16	□ 16	2.1	10 3/8	6TCH16	□ 16	2.3	10 3/8
*					6TCS14	□ 14	3.8		6TCF14	□ 14	2.6		6TCH14	□ 14	2.8	
9	9TCP14	14	3.5	13 3/8	9TCS14	□ 14	4.1	13 3/4	9TCF16	□ 16	3.2	14	9TCH16	□ 16	3.3	14
					9TCS12	□ 12	5.7		9TCF14	□ 14	3.9		9TCH14	□ 14	4.1	
					9TCS10	□ 10	7.3		9TCF12	□ 12	5.5					
*									9TCF10	□ 10	7.1					
10	10TCP14	14	3.8	14 3/8	10TCS14	□ 14	4.4	14 3/4	10TCF16	□ 16	3.4	15	10TCH16	□ 16	3.5	15
					10TCS12	□ 12	6.1		10TCF14	□ 14	4.2		10TCH14	□ 14	4.3	
					10TCS10	□ 10	7.8		10TCF12	□ 12	5.9					
*									10TCF10	□ 10	7.6					
12	12TCP14	14	4.6	17 1/2	12TCS14	□ 14	5.1	17 1/2	12TCF14	□ 14	4.9	18	12TCH14	□ 14	5	18
					12TCS12	□ 12	7.1		12TCF12	□ 12	6.9		12TCH12	□ 12	7.1	
**					12TCS10	□ 10	9		12TCF10	□ 10	8.8					
14	14TCP14	14	5.1	19 1/2	14TCS14	□ 14	5.6	19 1/2	14TCF14	□ 14	5.4	19 7/8	14TCH14	□ 14	5.5	19 7/8
					14TCS12	□ 12	7.8		14TCF12	□ 12	7.6		14TCH12	□ 12	7.7	
**					14TCS10	□ 10	9.9		14TCF10	□ 10	9.7					
16	16TCP14	14	5.6	21 1/2	16TCS14	□ 14	6.1	21 1/2	16TCF14	□ 14	5.9	21 7/8	16TCH14	□ 14	6.1	21 7/8
					16TCS12	□ 12	8.5		16TCF12	□ 12	8.3		16TCH12	□ 12	8.5	
**					16TCS10	□ 10	10.8		16TCF10	□ 10	10.6					
18	18TCP12	12	8.9	24 1/2	18TCS12	□ 12	9.6	24 1/2	18TCF14	□ 14	6.7	25	18TCH14	□ 14	6.8	25
					18TCS10	□ 10	12.3		18TCF12	□ 12	9.4		18TCH12	□ 12	9.5	
**									18TCF10	□ 10	12.1					
20	20TCP12	12	9.7	26 1/2	20TCS12	□ 12	10.3	26 1/2	20TCF14	□ 14	7.2	27	20TCH14	□ 14	7.4	27
					20TCS10	□ 10	13.3		20TCF12	□ 12	10.1		20TCH12	□ 12	10.4	
**									20TCF10	□ 10	13.1					
24	24TCP12	12	11.1	30 1/2	24TCS12	□ 12	11.8	30 1/2	24TCF14	□ 14	8.3	31	24TCH14	□ 14	8.4	31
					24TCS10	□ 10	15.1		24TCF12	□ 12	11.6		24TCH12	□ 12	11.8	
**									24TCF10	□ 10	14.9					

For average applications where dust confinement is not a problem, 2'-0" centers or 10 fasteners per 10'-0" section are generally satisfactory. For commercially dust tight 1'-0" centers or 20 fasteners per 10'-0" section are suggested.

*L — Standard lengths are 5'-0" & 10'-0"

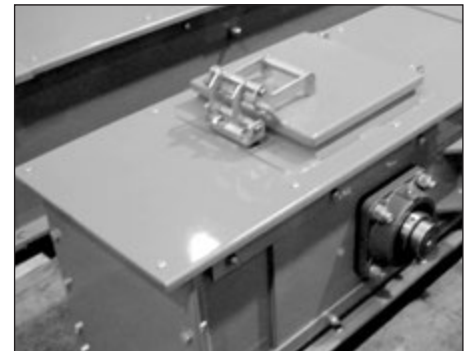
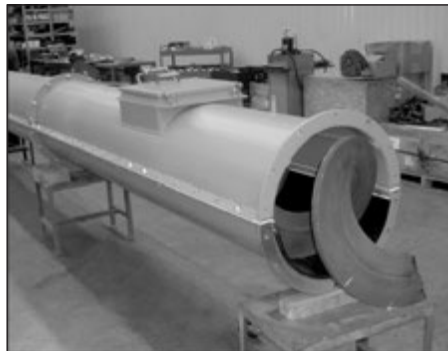
**L — Standard lengths are 5', 6', 10' & 12'-0"

□ — Standard gauge

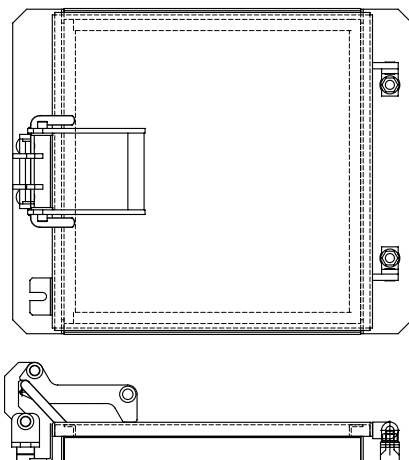


The *Martin* dust tight inspection door is ideal for visual inspection in dusty applications. Once installed, the *Martin* inspection door will give you years of trouble free service. It allows efficient access by authorized personnel while maintaining security with a latch that can be bolted or locked. The door comes with a poured black rubber door seal for chemical resistance and long life. The hinge and latch on all models are laser cut of 304 SS material for precision and corrosion resistance.

- Moisture and Dust Tight
- Heavy-Duty Construction
- Installs Easily on Existing Equipment
- Simple Operation
- Stocked in Carbon Steel and 304SS
- 316SS Available upon request



The *Martin* dust tight inspection door can be supplied with an expanded metal screen welded inside the opening to prevent physical access to moving parts. These doors are available from stock in many sizes. Custom sizes can be manufactured to fit your specific needs.



MDT[®] *Martin* Dust Tight Doors

Part Number		Size
Carbon Steel*	Stainless Steel	
0606PG-ID	0606PG-ID-SS	6" × 6"
0909PG-ID	0909PG-ID-SS	9" × 9"
1010PG-ID	1010PG-ID-SS	10" × 10"
1212PG-ID	1212PG-ID-SS	12" × 12"
1414PG-ID	1414PG-ID-SS	14" × 14"
1616PG-ID	1616PG-ID-SS	16" × 16"

* Carbon Steel construction with Stainless Steel Hinge.

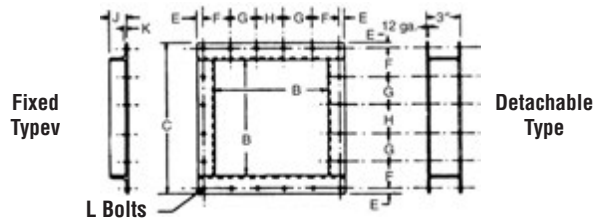
Martin Dust Tight Doors are stocked in Carbon Steel and 304SS, 316SS is available upon request. Special sizes also available upon request.

Cover Accessories



Flanged Conveyor Inlets

The two styles of flanged conveyor inlets are designed for either bolting or welding to flat or flanged conveyor trough cover. The inlet size and bolt arrangement is the same as the standard conveyor discharge spout.

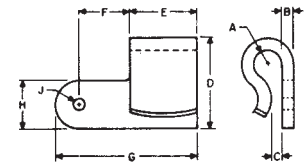


Conveyor Diameter	Part Number		Weight	B	C		E		F	G	H	J	K	L
	Fixed Inlet	Detachable Inlet			Fixed Inlet	Detachable Inlet	Fixed Inlet	Detachable Inlet						
4	4CIF	4CID	1.8	5	7 1/2	7 1/2	3/8	3/8	2 1/4	—	2 1/4	1 1/4	3/16	1/4
6	6CIF	6CID	5.0	7	10	10	11/16	11/16	2 13/16	—	3	1 1/2	3/16	3/8
9	9CIF	9CID	6.8	10	13	13	1/2	1/2	4	—	4	1 1/2	3/16	3/8
10	10CIF	10CID	7.4	11	14 1/4	14 1/4	5/8	5/8	4 5/16	—	4 3/8	1 1/2	3/16	3/8
12	12CIF	12CID	12.1	13	17 1/4	17 1/4	3/4	7/8	5 1/8	—	5 1/4	2 1/8	3/16	3/8
14	14CIF	14CID	13.7	15	19 1/4	19 1/4	3/4	7/8	3 1/2	3 1/2	3 1/2	2 1/8	3/16	3/8
16	16CIF	16CID	15.8	17	21 1/4	21 1/4	3/4	7/8	3 3/4	4	4	2 1/8	3/16	3/8
18	18CIF	18CID	29.0	19	24 1/4	24 1/4	1	1 1/8	4 7/16	4 3/8	4 3/8	2 1/2	3/16	1/2
20	20CIF	20CID	31.8	21	26 1/4	26 1/4	1	1 1/8	4 7/8	4 3/4	4 3/4	2 1/2	3/16	1/2
24	24CIF	24CID	37.2	25	30 1/4	30 1/4	1	1 1/8	5 5/8	5 5/8	5 1/2	2 1/2	3/16	1/2

Spring Clamps

Spring Clamps are used to attach plain and semi-flanged covers to trough. These clamps are normally riveted to the trough flange and will pivot to allow removal of cover.

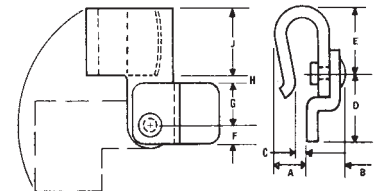
Clamp No.	A	B	C	D	E	F	G	H	J	Wt.
SPC-1	5/16	3/16	5/16	2	1 1/4	1 5/16	3	7/8	9/32	.38



Spring Clamps with Cover Bracket

Spring Clamps with cover brackets are designed to attach to the top side of semi-flanged and plain covers.

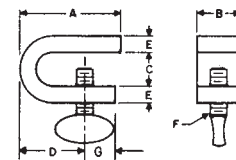
Clamp No.	A	B	C	D	E	F	G	H	J	Wt.
SPCA-1	11/16	1/2	3/16	1 1/2	1 9/16	3/8	7/8	3/8	1 1/4	.50



Screw Clamps

Screw Clamps are a simple and effective means of attaching flanged or flat covers to trough. Screw Clamps available in mild steel, stainless steel and zinc plated.

Clamp No.	A	B	C	D	E	F	G	J	Wt.
CSC-2	2 1/4	1	1 3/16	1 7/16	5/16	3/8	1/2	.42	.50

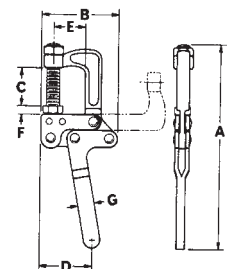


Cover Gaskets

Conveyor Diameter	Size		
	Red Rubber	Sponge Rubber	*White Rubber
4.6	RR125 1/8 x 1 1/4	SP125 1 1/8 x 1 1/4	WN125 1/8 x 1 1/4
9,10	RR150 1/8 x 1 1/2	SP150 1/8 x 1 1/2	WN150 1/8 x 1 1/2
12, 14, 16	RR200 1/8 x 2	SP200 1/8 x 2	WN200 1/8 x 2
18, 20, 24	RR250 1/8 x 2 1/2	SP250 1/8 x 2 1/2	WN250 1/8 x 2 1/2

Toggle Clamps

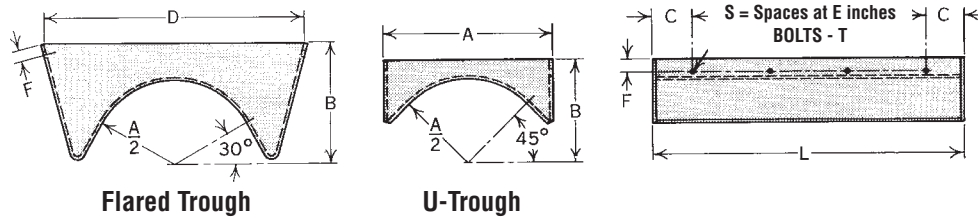
Quick acting toggle clamps are used to attach covers for quick accessibility. Normally this type clamp is attached by welding the front or top of clamp to the trough and can be adjusted to fit all sizes of trough, while allowing 90° to clear working area.



Conveyor	Part Number	No. Required per 10' Section	A	B	C	D	E	F	G
4 - 24	QTC	6 to 8	7 13/16	2 15/16	1 25/32	2	1 1/4	5/16	5/8

Feeder Shrouds

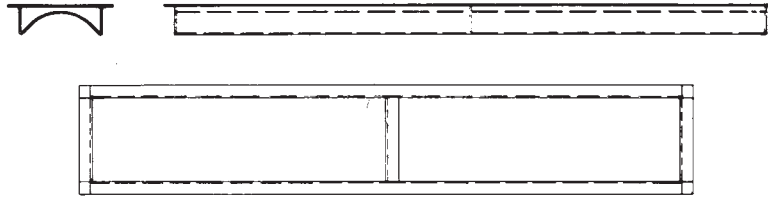
Shrouds are used in trough sections of screw feeders to decrease the clearance between the cover and feeder screw to obtain proper feed regulation. Lengths are sufficient to prevent flushing of the majority of materials being handled and gauges are proportioned to trough size and gauge.



Screw Diameter	Part Number		Shroud Thickness	A	B		C	D	E	F		L	T	S
	U	Flared			U	Flared				U	Flared			
4	4TFS14	4FFS14	14 Ga.	5	3 5/8	—	2	—	4	5/8	—	8	1/4	1
6	6TFS14	6FFS14	14 Ga.	7	4 1/2	7	3	14	6	3/4	3/4	12	5/16	1
	6TFS12	6FFS12	12 Ga.	7	4 1/2	7	3	14	6	3/4	3/4	12	5/16	1
9	9TFS14	9FFS14	14 Ga.	10	6 1/8	9	3	18	6	7/8	3/4	18	3/8	2
	9TFS7	9FFS7	3/16"	10	6 1/8	9	3	18	6	7/8	3/4	18	3/8	2
10	10TFS14	10FFS14	14 Ga.	11	6 3/8	—	2 1/2	—	5	7/8	—	20	3/8	3
	10TFS7	10FFS7	3/16"	11	6 3/8	—	2 1/2	—	5	7/8	—	20	3/8	3
12	12TFS12	12FFS12	12 Ga.	13	7 3/4	10	3	22	6	1 1/8	1	24	3/8	3
	12TFS7	12FFS7	3/16"	13	7 3/4	10	3	22	6	1 1/8	1	24	3/8	3
14	14TFS12	14FFS12	12 Ga.	15	9 1/4	11	3 1/2	24	7	1 1/8	1	28	3/8	3
	14TFS7	14FFS7	3/16"	15	9 1/4	11	3 1/2	24	7	1 1/8	1	28	3/8	3
16	16TFS12	16FFS12	12 Ga.	17	10 5/8	11 1/2	4	28	8	1 1/8	1	32	3/8	3
	16TFS7	16FFS7	3/16"	17	10 5/8	11 1/2	4	28	8	1 1/8	1	32	3/8	3
18	18TFS12	18FFS12	12 Ga.	19	12 1/8	12 1/8	4 1/2	31	9	1 3/8	1 3/8	36	3/8	3
	18TFS7	18FFS7	3/16"	19	12 1/8	12 1/8	4 1/2	31	9	1 3/8	1 1/8	36	3/8	3
20	20TFS10	20FFS10	10 Ga.	21	13 1/2	13 1/2	4	34	8	1 3/8	1 3/8	40	3/8	4
	20TFS7	20FFS7	3/16"	21	13 1/2	13 1/2	4	34	8	1 3/8	1 3/8	40	3/8	4
24	24TFS10	24FFS10	10 Ga.	25	16 1/2	16 1/2	4	40	8	1 3/8	1 3/8	48	3/8	5
	24TFS7	24FFS7	3/16"	25	16 1/2	16 1/2	4	40	8	1 3/8	1 3/8	48	3/8	5

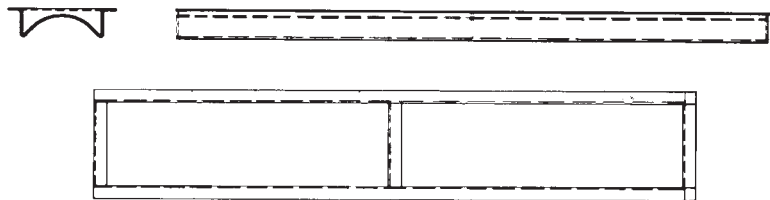
Conveyor Shrouds

Conveyor shroud covers are used to form a tubular cross section within the conveyor trough. This arrangement gives the features of a tubular housing while allowing removal of the shroud for easy access and cleaning. Flat or flanged covers can be used over the shroud cover when it is objectionable for the recess in the shroud to be exposed to dust or weather. Various types of shrouds are furnished to fit various applications. These types are described below.



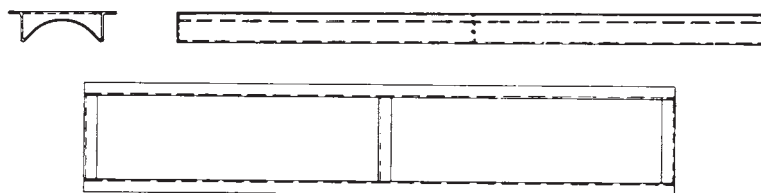
Type 1

Type 1 Shroud cover has flanged sides over top rail and flanged ends at both ends. This type is used when shroud is full length of trough or between hangers.



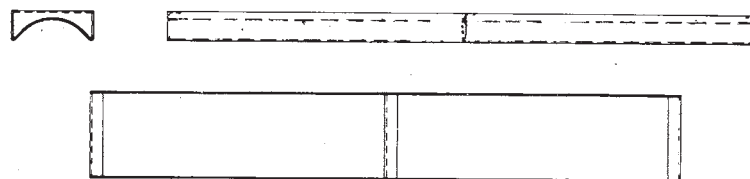
Type 2

Type 2 Shroud cover has flanged sides over top rails and flanged ends on one end over trough end; other end is plain. This type shroud is used at an inlet opening or next to a hanger at the plain end.



Type 3

Type 3 Shroud cover has flanged sides over top rail and both ends closed and no flanges over ends. This type shroud is used between hangers.



Type 4

Type 4 Shroud cover has no flanges at sides or ends. Bolt holes are provided along sides, for bolting through side of trough. This allows flush mounting with top of trough and a cover may be used over the shroud. This shroud is used mostly for short lengths when installed ahead of an inlet opening.

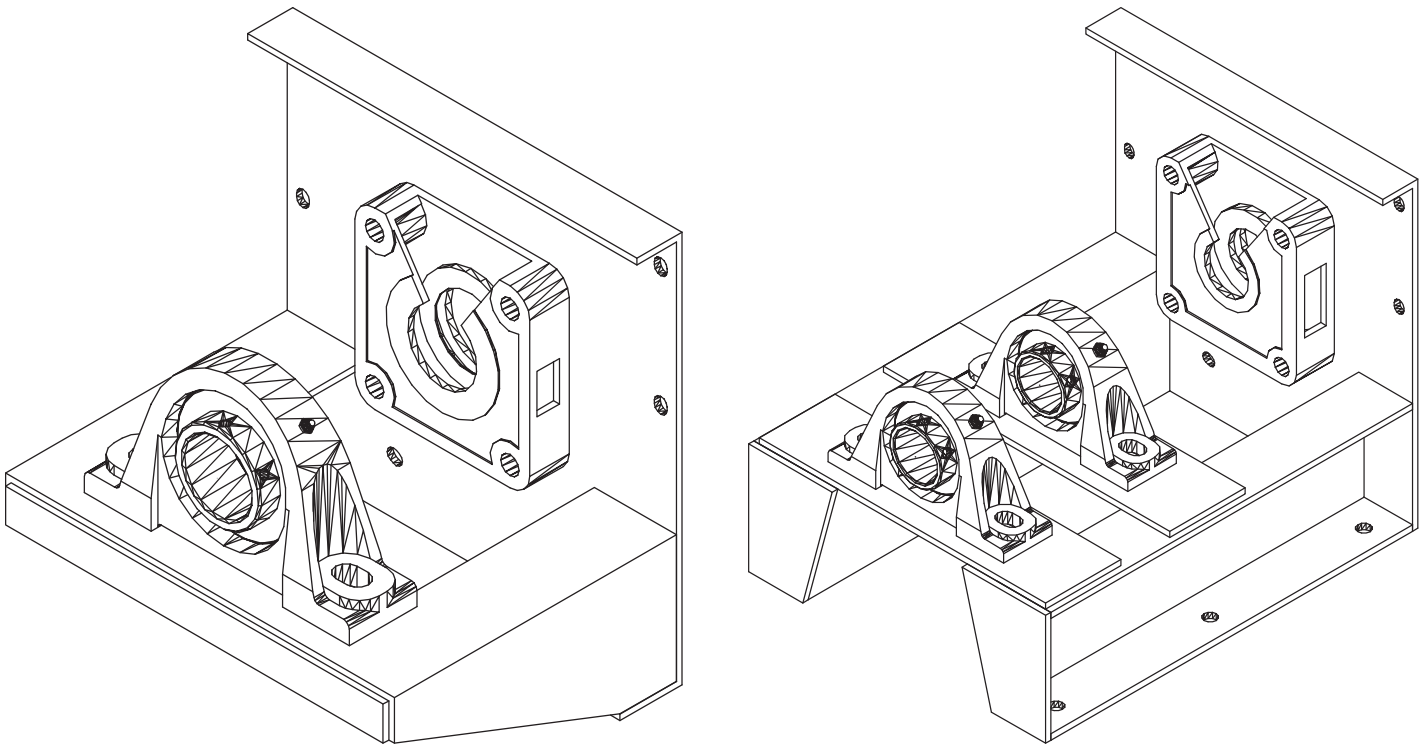
SPECIAL FEATURES	PAGE
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TROUGH	H-110
CONVEYOR SCREWS.....	H-113
DISCHARGES.....	H-118
INLET	H-119

Special Features

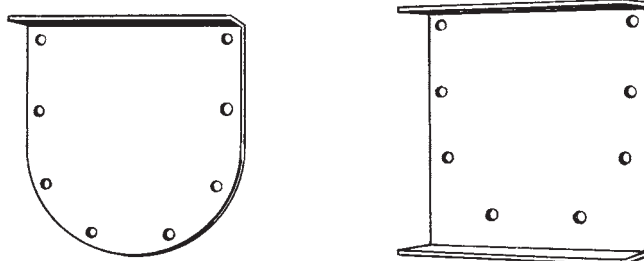
The information presented in this section gives descriptions and functions of the most commonly used special features available in the design of conveyor systems.

These special features will greatly broaden the range of uses for screw conveyor when added to the many standard features available. Standard features and components are always more desirable and practical in the design of a screw conveyor system; however, one or more of these special features may sometimes be required in special applications for a workable or more efficient system.

	<p>OVERFLOW COVER sections are used as a safety relief to handle overflow over the discharge in cases where the discharge may become plugged. It is a short section of flanged or flat cover hinged across the width to the adjoining cover. The cover is not attached to the trough in order that it can be raised by pressure from within the trough.</p>
	<p>SHROUD COVERS are designed to fit inside a standard conveyor trough of a Screw Feeder or inclined conveyor, and create a tubular trough effect. This cover has an advantage over tubular trough in that ease of access is combined with the convenience of using standard hangers and accessories. An additional flat cover may be required over the shroud to prevent accumulation of dust or water in the recessed portion of the shroud cover.</p>
	<p>EXPANDED METAL COVERS can be furnished where cover is required for safety but constant visual inspection is required.</p> <p>STANDARD COVERS of any design can be furnished in heavier gauges, when needed to support weight.</p>
	<p>DOMES COVERS are half circle domes rolled to the same inside diameter as the trough bottom and are flanged for bolting to the trough top rails. They are used where venting of fumes or heat from the material being conveyed is required. End sections have a welded end plate and intermediate joints are buttstrap connected. Vent pipes or suction lines can be attached to the cover.</p>
	<p>DUST SEAL COVERS are flanged down on all four sides to match channel sections fabricated on the sides, ends, and cross channels of special dust seal troughs. The length of the cover should not exceed one-half the length of the trough section.</p>
	<p>HINGED COVERS may be constructed from conventional flat covers or most special covers. They are equipped with a hinge on one side for attaching to the trough and are bolted or clamped to the trough on the other side. Hinged covers are used in applications where it is not desirable to have a loose cover, such as in high areas above walkways where the cover might fall.</p>
	<p>HIP ROOF COVERS are similar to conventional flanged covers except they are peaked slightly to form a ridge along the center of the cover. A welded end plate closes the peaked section at each end of the trough while intermediate joints are usually buttstrap connected. Hip roof covers are usually recommended for outdoor installations to prevent accumulation of moisture. They are also often used in applications where a more rigid cover is required.</p>



SHELF-TYPE TROUGH ENDS are furnished with outboard bearing pedestals for mounting pillow block bearings. The bearings are mounted away from the trough end plate allowing ample room to protect the bearing when handling abrasive or hot materials. This arrangement allows the use of most any type shaft seal desired. Either one or two bearings can be used.



BLIND TROUGH ENDS are used on the tail end (normally the inlet end) of a conveyor, when sealing the end shaft is extremely difficult. A hanger is used inside the trough to support the tail shaft without the shaft projecting through the trough end.

A blind trough end plate can also be furnished with a dead shaft welded to the end plate. For this type the screw is bushed with an antifriction bearing to carry the radial load of the screw. When required, a grease fitting can be furnished through the dead shaft for lubricating the bearing.

	<p>WIDE CLEARANCE TROUGH is of conventional construction except with a wider clearance between the outside of the conveyor screw and the inside of the trough. This type trough is used when it is desirable to form a layer of conveyed material in the trough. The material thus moves on itself, protecting the trough from undue wear. By using a wide clearance or oversize trough, a greater capacity than using a standard conveyor screw can be obtained for some materials that travel as a mass. When wide clearance trough is required, it is more economical to use a standard conveyor screw and the next larger size standard trough.</p>
	<p>BULK HEAD is a plate or baffle shaped to the contour of the inside of the trough and is normally welded or bolted six to twelve inches from the trough end. The bulk head protects the end bearing and drive unit from heat while handling hot materials, when the pocket formed is filled with packing or insulation. The bulk head can be used in the same manner to prevent damage to seals and bearings when handling extremely abrasive materials.</p>
	<p>EXPANSION JOINT is a connection within a length of trough to allow for expansion caused by hot materials being conveyed. The expansion joint is constructed with bolts fastened in slots to allow for expansion or with a telescoping type slip joint. The number of joints and amount of expansion will depend on the application.</p>
	<p>PERFORATED BOTTOM TROUGH is equipped with a perforated bottom, and is used as a screening operation or drain section when liquids are present in the conveyed material. The size of the perforations in the trough will vary depending on the material and application.</p>
	<p>RECTANGULAR TROUGH is made with a flat bottom and can be formed from a single sheet or with sides and bottom of separate pieces. This type trough is frequently used in handling abrasive materials capable of forming a layer of material on the bottom of the trough. The material thus moves on itself, protecting the trough from undue wear. Also in handling hot materials, the material will form its own internal insulation with this type trough.</p>
	<p>TUBULAR TROUGH is furnished in either solid tube construction or split tube construction with flanges for bolting or clamping the two halves together. This trough is a complete tube enclosure and is used for weather-tight applications, for loading to full cross sections, and for inclined or vertical applications where fall back necessitates the housing to operate at a full loading.</p>

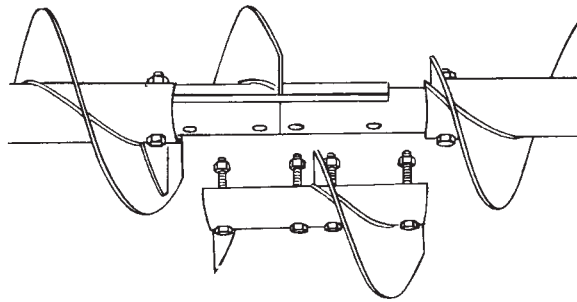
*Conveyors shown without cover for illustration purposes only. Please follow manufacturing safety guidelines when operating conveyors.

<p style="text-align: center;">Close</p>	<p>CLOSE CLEARANCE TROUGH is of conventional construction except with a closer clearance between the outside of the conveyor screw and the inside of the trough. This type trough leaves less material in the trough and is often used when a greater clean-out of conveyed material is required. This type trough also minimizes fall back of certain materials in an inclined conveyor.</p>
	<p>DROP BOTTOM TROUGH is equipped with either a bolted or clamped and completely removable drop bottom, or hinged on one side with bolts or clamps on the opposite side. This design offers ease in cleaning of the trough and screw conveyor, and is often used when handling food products where internal inspection and cleaning of the screw conveyor is necessary.</p>
	<p>DUST SEAL TROUGH (Sometimes referred to as SAND SEAL TROUGH) has Z-bar top flanges and formed channel cross members making a continuous channel pocket around the top of the trough into which a special flanged cover is set. The channel is filled with sand or dust of the product being conveyed, thus creating an effective seal against the escape of dust from within the conveyor.</p>
	<p>CHANNEL SIDE TROUGH is made with separate detachable trough bottoms, bolted or clamped to formed or rolled steel channels. The channels may be of any reasonable length to span widely spaced supports. This type of trough is occasionally used for easy replacement of trough bottoms, and to facilitate repairs when conveyor screw and hangers are not accessible from the top. The channel side trough can also be used without a bottom for filling bins and hoppers.</p>
	<p>HIGH SIDE TROUGH is of conventional construction except that the trough sides extend higher than standard from the center line to the top of the trough. This type trough is frequently used in conveying materials which mat together and travel as a mass on top of the conveyor screw. High side trough will confine this type material in the trough, but still affords the necessary expansion room.</p>
	<p>JACKETED TROUGH consists of a formed jacket continuously welded to the trough. This type trough is widely used for heating, drying or cooling of materials. Pipe connections are provided for supply and discharge of the heating or cooling media. Special construction must be provided for higher pressures.</p>

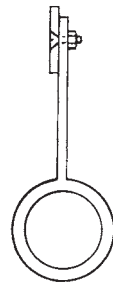
*Conveyors shown without cover for illustration purposes only. Please follow manufacturing safety guidelines when operating conveyors.

	<p>HOLD DOWN ANGLES are used to hold the conveyor screw in the trough when the conveyor is operated without intermediate hangers or when chunks of material may tend to ride under the conveyor screw and push it up. The angle is constructed of formed or regular angle iron and is attached to one side of the full length of trough far enough above the conveyor screw to allow approximately one-half inch clearance between the bottom angle and the conveyor screw.</p>
	<p>INSULATED CONVEYOR TROUGH is used when handling hot or cold materials. There are many types of insulation materials and arrangements that can be used.</p>
	<p>RIDER BARS are flat bars one to one and one-half inches in width running part of length or full length of the trough. Two or four bars are normally used and are spaced an equal distance apart along the curved bottom of the trough. The bars are used to support the conveyor screw to prevent wear on the trough when internal hanger bearings are not used. Rider bars are sometimes referred to as Rifling Bars when they are used to assist in conveying materials that tend to stick to the conveyor screw and rotate with it.</p>
	<p>SADDLE TYPE WEAR PLATES are plates curved to the contour of the inside of the trough and of slightly less thickness than the clearance between the conveyor screw and trough. The plates are made in lengths of approximately one and one-half times the pitch of the conveyor screw and are normally spaced at intervals equal to the distance between hangers. They are used to support the conveyor screw to prevent damage to the trough when internal hanger bearings are not used.</p>
	<p>STRIKE OFF PLATE (SHROUD BAFFLE) is a single plate bolted vertically to the upper portion of the trough and is cut out to the contour of the screw. This plate is used to regulate the flow of material from an inlet by preventing flooding across the top of the conveyor screw.</p>

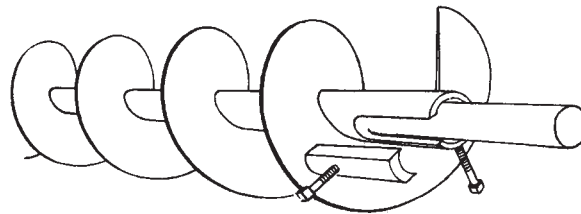
*Conveyors shown without cover for illustration purposes only. Please follow manufacturing safety guidelines when operating conveyors.



SPLIT FLIGHT COUPLINGS permit installation or removal of individual sections of conveyor screw without disturbing adjoining sections. When they are installed on both sides of each hanger, sections of screw can be removed without disturbing the hangers. These must be furnished complete with matching shafts.



WEAR FLIGHTS, or wearing shoes, attached with countersunk bolts to the carrying side of conveyor screw flights are used for handling highly abrasive materials and are easily replaceable.



QUICK DETACHABLE KEY CONVEYOR SCREW is designed for easy removal from the conveyor trough. Each section of screw is provided with a removable key located at one end of the pipe. By removing this key, a conveyor screw section and coupling with a hanger can be quickly removed without disturbing other components.

Width of Application Chart

Screw Diameter	Standard Width of Application
6	1
9	1 1/2
12	2
14	2
16	2 1/2
18	2 1/2
20	3
24	3



Helicoid

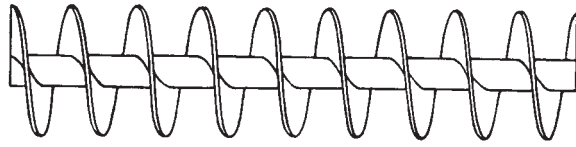


Sectional

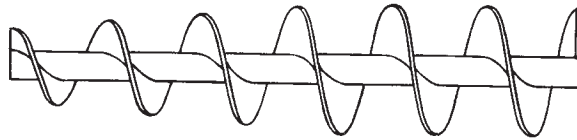
NOTE: Weld-on type normally 1/16" thick.

HARD SURFACED FLIGHTS sometimes called abrasive resistant conveyors can be furnished using one of many hardsurfacing processes. The hard surfaced area is normally an outer portion of the face of the flight on the carrying side of the conveyor screw. This process is applied to the conveyor screw to resist wear when handling highly abrasive materials.

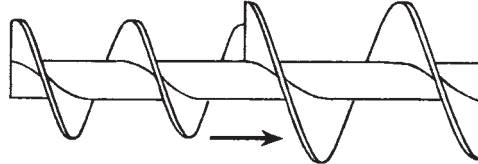
Conveyor Screws



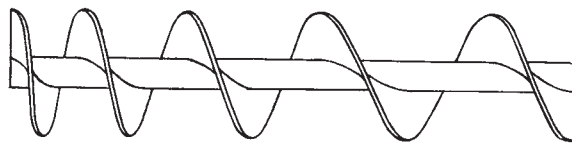
SHORT PITCH CONVEYOR SCREWS are of regular construction except that the pitch of the flights is reduced. They are recommended for use in inclined conveyors of 20 degrees slope and over, and are extensively used as feeder screws, and for controlling cross sectional loading in the balance of a conveyor when short pitch is used at the inlet opening.



TAPERING FLIGHT CONVEYOR SCREWS are frequently used as feeder screws for handling friable lumpy material from bins or hoppers and also to draw the material uniformly from the entire length of the feed opening.



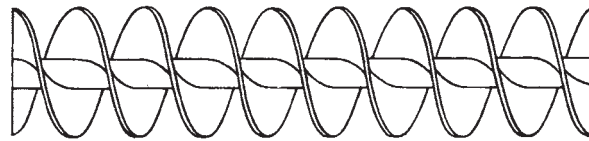
STEPPED DIAMETER CONVEYOR SCREWS consist of flights of different diameters, each with its regular pitch, mounted in tandem on one pipe or shaft. They are frequently used as feeder screws, with the smaller diameter located under bins or hoppers to regulate the flow of material.



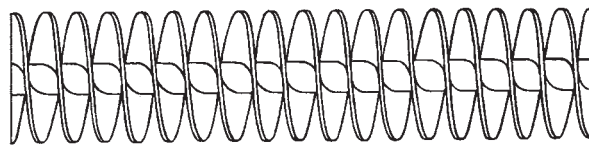
STEPPED PITCH CONVEYOR SCREWS are screws with succeeding single or groups of flights increasing in pitch and are used as feeder screws to draw free-flowing materials uniformly from the entire length of the feed opening.



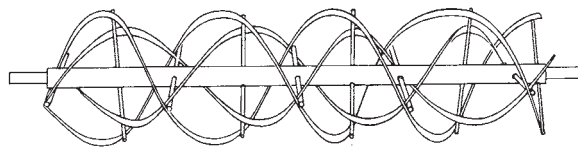
CONE SCREW to withdraw material evenly from a hopper or bin. Constant pitch reduces bridging. Requires less start-up horsepower.
H-114



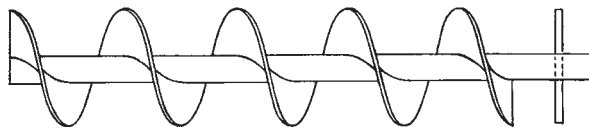
DOUBLE FLIGHT CONVEYOR SCREWS of regular pitch promote a smooth gentle flow and discharge of certain materials. Double flight can be used at hanger points only, for smooth flow past hangers.



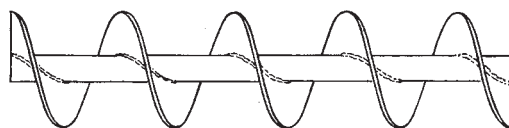
DOUBLE FLIGHT SHORT PITCH CONVEYOR SCREWS assure more accurate regulation of feed and flow in screw feeders and effectively deter flushing action of fluid materials.



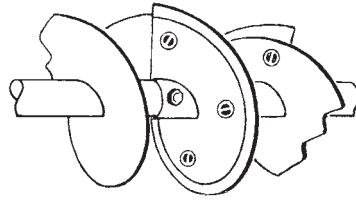
MULTIPLE RIBBON FLIGHT CONVEYOR SCREWS. This type of screw consists of two or more ribbon flights of different diameters and opposite hand, mounted one within the other on the same pipe or shaft by rigid supporting lugs. Material is moved forward by one flight and backward by the other, thereby inducing positive and thorough mixing. (Made per customer specifications.)



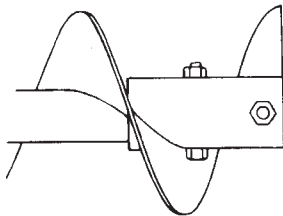
BREAKER PINS. The breaker pin is a rod approximately the same in length as the diameter of the conveyor screw and is inserted through the diameter of the pipe over the discharge to help break up lump materials.



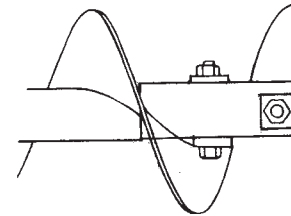
CONTINUOUS WELDING of the conveyor screw flight to the pipe can be furnished with welding one side or both sides. This welding is added to prevent stripping of flight from the pipe under extreme loads. The continuous welding can also be added to fill the slight crack between the flight and pipe for sanitary purposes.



BEARING SHOES (Nylon, Teflon, Brass, and other bearing type materials.) Bearing shoes are used in place of internal bearings and are bolted to the conveyor screw. They are made from bearing type material, and when attached to the conveyor screw flight, the bearing shoe projects beyond the outer edge of flighting and rotates with the screw thereby preventing metal to metal contact between the conveyor screw and the trough. The bearing shoes extend around the helix slightly more than one pitch and are spaced along the screw at approximately the same intervals as internal bearings.

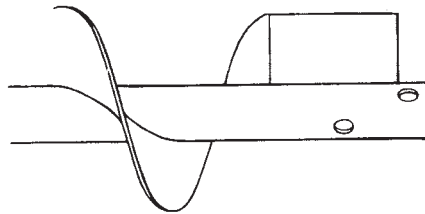


External Sleeves

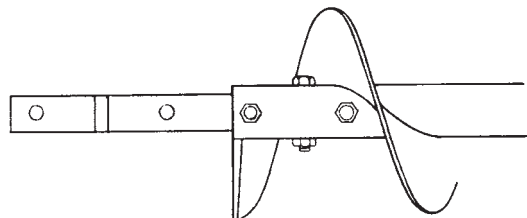


Bolt Pads

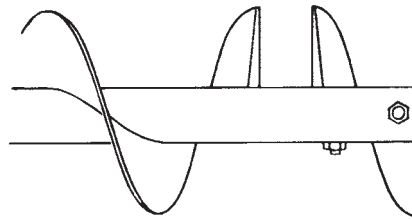
EXTERNAL SLEEVES OR BOLT PADS are added to the outside diameter of conveyor screw pipe at the end where the couplings are attached to reinforce the pipe at the bolt area.



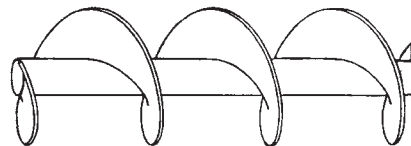
KICKER BARS are flat bars projecting from the conveyor screw pipe extending to the outside diameter of the screw over the discharge spout and are used to assist the discharge of materials.



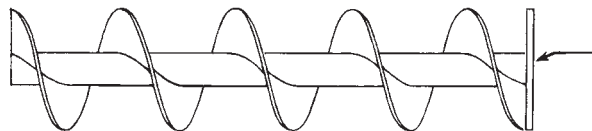
MULTIPLE HOLE DRILLING of the conveyor screw pipe and shafts will increase the torque rating of the bolted sections.



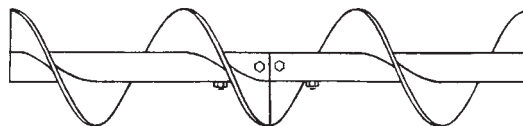
OPPOSITE HAND FLIGHTS are short sections (approximately one-half pitch) of flight added to the conveyor screw beyond the discharge point and are the opposite hand of the rest of the screw. This flight opposes the flow of material that tends to carry past the discharge spout and pack at the end plate and forces the material back to the spout for discharge.



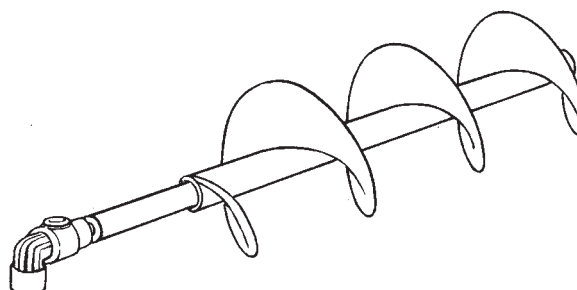
ODD DIAMETER CONVEYOR SCREW is of conventional construction except oversize or undersize in diameter. This type conveyor screw is used to provide a close clearance or wide clearance between the screw and trough and enable the use of standard component parts.



END DISC ON CONVEYOR SCREW. This disc is welded flush with the end of the conveyor screw pipe and is the same diameter as the screw. It rotates with the conveyor screw and assists in relieving the thrust of the conveyed material against the end plate shaft seal.

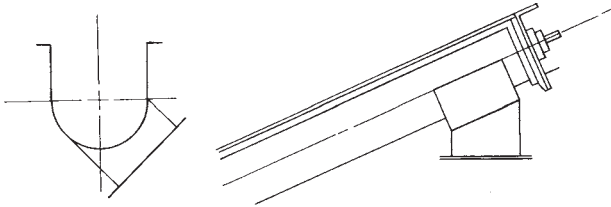


CLOSE COUPLED CONVEYOR SCREW. This type screw forms a continuous helix when two or more conveyor screws are close coupled by drilling the shaft of each to align the connecting flight.

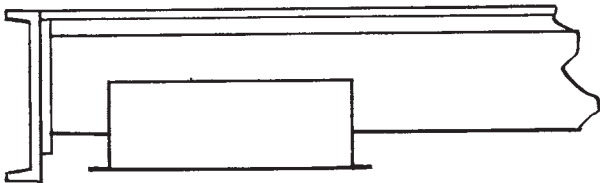


ROTARY JOINTS FOR COOLING AND HEATING are attached to one or both end shafts to provide a flow of heating or cooling media through the conveyor screw pipe.

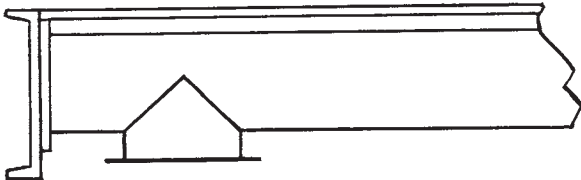
Discharges



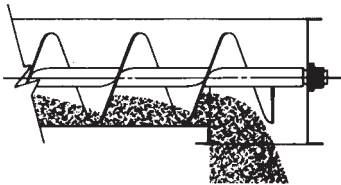
ANGULAR DISCHARGES can be furnished when necessary for certain applications. This type discharge is normally used on inclined conveyors when it is necessary that the discharge be parallel to ground level, or at other times when material must be discharged to one side.



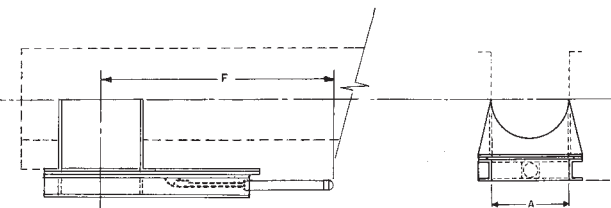
LONGER THAN STANDARD DISCHARGE SPOUTS are approximately one and one-half times the length of the standard discharge spouts. This discharge is used with materials hard to discharge due to the material trying to convey past the discharge opening. This discharge is also used when operating conveyors.



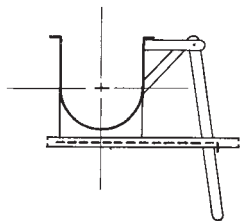
ROUND DISCHARGE SPOUTS are furnished where required for attaching tubular attachments, or when one conveyor discharges into another conveyor at an angle other than a right angle. By using a round discharge and round inlet the connection is easily made.



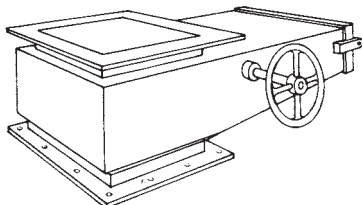
FLUSH END DISCHARGE SPOUTS are furnished with a special trough end plate constructed on trough end side of the spout. This type spout offers a complete discharge without a ledge at the end plate for material build up. It is used primarily in handling food products, where infestation may occur.



AIR OPERATED FLAT SLIDE GATES are similar in action and purpose to rack and pinion gates. The gate movement is accomplished by an air cylinder. These gates are usually employed when remote control and automatic operation is desired.



LEVER OPERATED GATES are a modification of standard slide discharges with a lever attached for opening and closing the gates. This attachment provides a leverage for ease of operation and a convenient means for quick opening and closing.



ENCLOSED DUST-TIGHT OR WEATHER-PROOF rack and pinion discharge spouts can be furnished in either flat or curved slide and are similar in construction to conventional rack and pinion slide gates except that the slide, rack, and pinion are fully enclosed in a housing.

	<p>AIR OPERATED CURVED SLIDE GATES are similar to standard rack and pinion gates except they are operated with an air cylinder. The air operated gate is usually used for remote control and automatic operation. These gates can also be furnished in dust-tight or weather-proof construction with the cylinder and gate fully enclosed in the housing.</p>
	<p>CUSHION CHAMBER INLETS (DEAD BED INLETS) serve the same purpose as the deflector plate inlet, but are constructed with a ledge that forms a cushion for materials fed into the conveyor.</p>
	<p>SIDE INLETS are equipped with a gate to furnish a means of regulating or stopping the inlet flow to relieve the conveyor screw from excessive material pressures. When using the side inlet, the screw rotation should be toward the inlet opening to assure a constant flow rate.</p>
	<p>HAND SLIDE INLET GATES are normally used when multiple inlets are required. These inlets must be adjusted or closed manually to assure proper feed to the conveyor.</p>
	<p>ROUND INLET SPOUTS are used for tubular attachments or when connecting the discharge of one conveyor to the inlet of another at other than a right angle. This type connection is easily made with round discharges and inlets.</p>
	<p>DEFLECTOR PLATE INLETS are used when materials fall vertically into the inlet creating the possibility of impact damage or abrasion to the conveyor screw. The rectangular inlet is equipped with deflector plates, or baffles, that dampen the impact of the material in order to feed the conveyor more gently.</p>
	<p>HANGER POCKETS are used with tubular trough, mounted on top of the tubular trough at hanger bearing points. The hanger pocket forms a U-shape section for a short length, allowing the use of standard conveyor hangers and providing easy access to the hanger.</p>

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General

All standard screw conveyor components are manufactured in conformity with Industry Standards. Special components are usually designed and manufactured to the particular job specifications.

Screw conveyors may be ordered either as complete units or by individual components. Complete units are normally shop assembled and then match marked and disassembled for shipment and field re-assembly. When components only are ordered, shipment is made as ordered, and these components must be sorted out and aligned in field assembly.

Because shop assembled screw conveyors are pre-aligned and match marked at the factory, they are easier to assemble in the field and require the minimum installation time. When individual components are ordered, more careful alignment and assembly are required. More time is required for field installation. Assembly bolts are not included with parts orders but are included with preassembled units.

Caution: All *Martin* Conveyors must be assembled and maintained in accordance with this section. Failure to follow these instructions may result in serious personal injury or property damage.

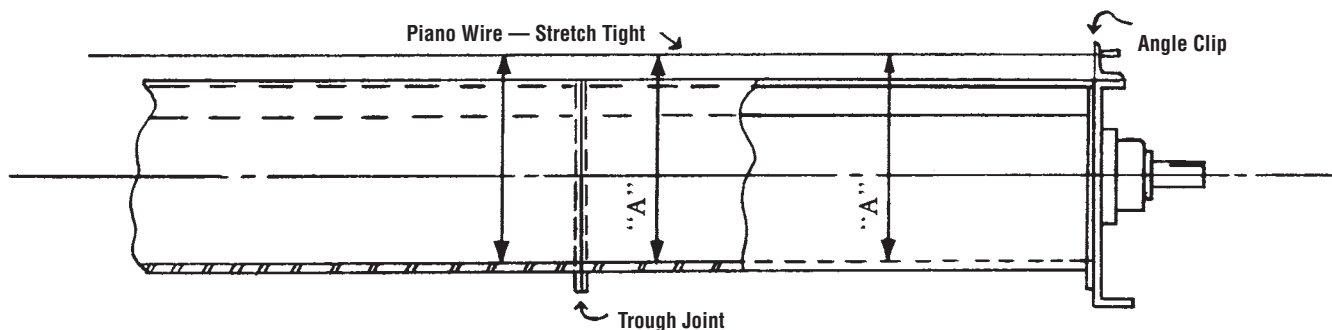
Installation

Receiving. Check all assemblies or parts with shipping papers and inspect for damage. Specifically check for dented or bent trough, bent flanges, bent flighting, bent pipe or hangers or damaged bearings. If any components are severely damaged in shipment, claims should be filed immediately with the carrier. NOTE: Handle Carefully! Fork lifts should have spreader bars to lift max. 24' lengths of assembled conveyors. Lift points should not exceed 10 - 12 feet.

Erection

For shop assembled conveyors, units are match marked and shipped in longest sections practical for shipment. Field assembly can be accomplished by connecting match marked joints, and in accordance with packing list, and/or drawing if applicable. In field erection, the mounting surfaces for supporting the conveyor must be level and true so there is no distortion in the conveyor. Shims or grout should be used when required. Check for straightness as assembly is made.

For conveyor assemblies purchased as parts or merchandise, assemble as follows: Place conveyor troughs in proper sequence with inlet and discharge spout properly located. Connect the trough flanges loosely. Do not tighten bolts. Align the trough bottom center-lines perfectly using piano wire (or equivalent) then tighten flange bolts. Tighten all anchor bolts.



Assembly of conveyor screws should always begin at the thrust end. If the unit does not require a thrust unit, assembly should begin at the drive end. If a thrust end is designated, assemble trough end and thrust bearing. Insert the end, or drive shaft, in the end bearing. Do not tighten set screws until conveyor assembly is completed.

Place the first screw section in the trough, slipping the end, or drive shaft, into the pipe end. Secure tightly with coupling bolts. Install so that conveyor end lugs are opposite the carrying side of the flight.

Place a coupling shaft into the opposite end of conveyor pipe. Tighten coupling bolts.

Insert coupling shaft into hanger bearing and clamp hanger to trough.

Assemble alternately, conveyor screws, couplings and hangers until all screws are installed.

- 1) **With Hangers:** Assemble screw section so that flighting at each end is approximately 180° from ends of flighting of adjacent sections. Also, adjust conveyor screw and thrust unit so that hangers are equally spaced between adjacent screws.
- 2) **Without Hangers:** (close coupled) Assemble screws so that flighting at adjoining ends of screw sections align to produce a continuous helix surface. (Note coupling holes have been drilled in assembly to allow for flight alignment.)

Remove hanger clamps and bolt hanger to trough with the bearing centered between conveyor screws.

Install trough covers in proper sequence. Properly locate inlet openings. Handle covers with reasonable care to avoid warping or bending.

Attach covers to trough with fasteners provided.

Install drive at proper location and in accordance with separate instructions or drawing provided.

Check screw rotation for proper direction of material travel after electrical connections have been made but before attempting to handle material. Incorrect screw rotation can result in serious damage to the conveyor and to related conveying and drive equipment.

If necessary, reconnect electrical leads to reverse rotation of conveyor and direction of material flow.

Operation

Lubricate all bearings and drives per service instructions. Gear reducers are normally shipped without lubricant. Refer to service instructions for lubrication.

In start-up of the conveyor, operate several hours empty as a break in period. Observe for bearing heat up, unusual noises or drive misalignment. Should any of these occur, check the following and take necessary corrective steps. (Non-lubricated hanger bearings may cause some noise.)

- 1) When anti-friction bearings are used, check for proper lubrication. Insufficient or excess lubricant will cause high operating temperatures.
- 2) Misalignment of trough ends, screws, hangers and trough end can cause excessive maintenance and poor life expectancy.
- 3) Check assembly and mounting bolts; tighten if necessary.

Do not overload conveyor. Do not exceed conveyor speed, capacity, material density or rate of flow for which the conveyor and drive were designed.

If the conveyor is to be inoperative for a prolonged period of time, operate conveyor until cleared of all material. This is particularly important when the material conveyed tends to harden or become more viscous or sticky if allowed to stand for a period of time.

It may be necessary to recenter hanger bearings after running material in conveyor.

Maintenance

Practice good housekeeping. Keep the area around the conveyor and drive clean and free of obstacles to provide easy access and to avoid interference with the function of the conveyor and drive.

Establish routine periodic inspections of the entire conveyor to ensure continuous maximum operating performance.

To replace conveyor screw section, proceed as follows:

- 1) Removal of a section, or sections, usually must proceed from the end opposite the drive. Make sure drive and electrical power are disconnected before starting to disassemble.
- 2) Remove the trough end, sections of screws, coupling shafts and hangers until all sections have been removed or until the damaged or worn section is reached and removed.
- 3) To reassemble follow the above steps in reverse order.
- 4) Quick detachable conveyor screws can be removed at intermediate locations without first removing adjacent sections.

Replacement parts can be identified from a copy of the original packing list or invoice.

The coupling bolt contains a lock nut that may become damaged when removed. It is recommended practice to replace them rather than re-use them when changing conveyor screw sections.

Hazardous Operations

Screw conveyors are not normally manufactured or designed to operate handling hazardous materials or in a hazardous environment.

Hazardous materials can be those that are explosive, flammable, toxic or otherwise dangerous to personnel if they are not completely and thoroughly contained in the conveyor housing. Special construction of screw and conveyor housing with gaskets and special bolted covers can sometimes be used for handling this type of material.

Special conveyors are not made or designed to comply with local, state or federal codes for unfired pressure vessels.



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Introduction

Martin has been designing and manufacturing a multitude of bucket elevators for over 75 years with hundreds in service today. We offer a complete line of Industrial Elevators to efficiently handle a wide range of dry free flowing materials in a relatively small space with minimum horsepower. These Industrial Elevators include Centrifugal Discharge and Continuous Discharge with chain or belt mounted buckets. Our elevators can be supplied with either boot or head take-ups. *Martin* additionally offers a line of Industrial High-Speed Centrifugal Grain elevators in both single leg and double leg designs.

Mill Duty-Centrifugal Discharge Elevators are also available for your tough applications. The Mill Duty elevator is specifically designed and built for the severe service required by the cement, rock, fertilizer, lime, gypsum, coal and fine ore industries. The Mill Duty is offered with AC style buckets.

The *Martin* Super Capacity-Continuous Discharge elevator is designed around the use of "SC" bucket mounted between two strands of chain. These elevators are specifically used where higher capacities, severe duty and/or higher shaft centers are required.

Components such as sprockets, traction wheels, pulleys, buckets and most take-ups are manufactured by *Martin*.

Martin offers not only a complete line standard elevators but can design and manufacture MTO elevator specific for a customer's application.

The Bucket Elevator catalog may be used to assist in making a preliminary selection. Please contact one of *Martin's* many Service Centers or Distributors for a recommendation and quote.

Elevator Types

Martin designs and manufactures various types of industrial bucket elevators to efficiently handle most dry, free-flowing bulk materials. High design standards, quality manufacturing location throughout North America assures rapid manufacturing times and economical delivery. This catalog is designed as tool to help our customers make preliminary selections of bucket elevators manufactured by *Martin*. *Martin* also is able to fill your needs for a MTO bucket elevator to your specific requirements. Contact *Martin* to discuss your bucket elevator needs and to receive quotation.

Notes:

Various materials of construction and thicknesses are available.

Many types of drives are available and can be supplied. Bucket Elevator Styles 100, 200, 500, 700 and 800 are normally supplied with shaft mounted reducers having internal backstops. Other types of drives are available. Mill Duty and Super Capacity elevators are quoted with a right angle reducer and chain drive with an external backstop.

Although the charts in this catalog are based on one type of bucket many other types are available. Nonmetallic buckets are also available in many types of buckets but offered as standard on our 500 Series elevators.

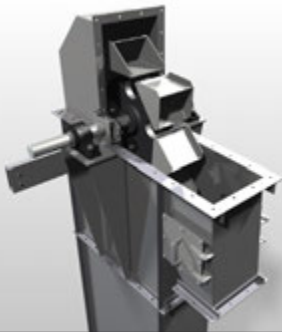
Martin recommends a backstop be installed on all Bucket Elevators.

Elevator Types



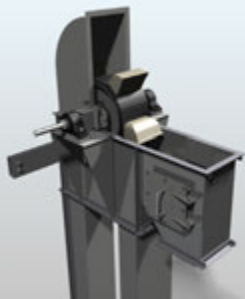
Centrifugal Discharge

Centrifugal discharge elevators are offered as: Series 100 (boot take-up) and Series 200 (head take-up). Both series are available with buckets mounted to a chain or belt. The centrifugal discharge elevators will handle free flowing materials with small to medium lump size. The *Martin* standard inlet chute and curved bottom plate help direct the material into the bucket, reducing the “digging” action of the bucket. The speed of the elevator is sufficient to discharge the material by centrifugal force.



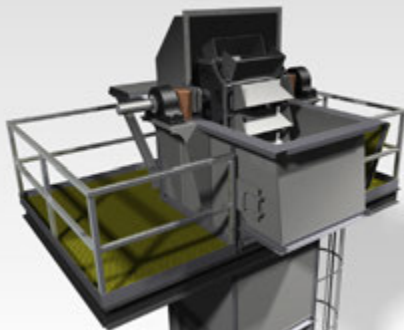
Continuous Discharge

Continuous discharge elevators are offered as: Series 700 (boot take-up) and Series 800 (head take-up). Either series is available with buckets continuous mounted on chain or belt to handle many bulk materials ranging from light to heavy and from fines to larger lumps. The buckets are loaded by direct feeding with the use of a loading leg. Spillage of material is minimizing by the close bucket spacing. As buckets discharge, material flows over the preceding buckets; projecting sides form a chute, assisting in proper discharge.



Centrifugal Discharge – High-Speed Grain

Series 500 (double leg) high-speed centrifugal discharge bucket elevators are specifically designed to economically handle grain and other free-flowing materials weighing less than 60 pounds a bushel. HSG elevators may be used in light duty frac sand applications.



Continuous Discharge – Super Capacity

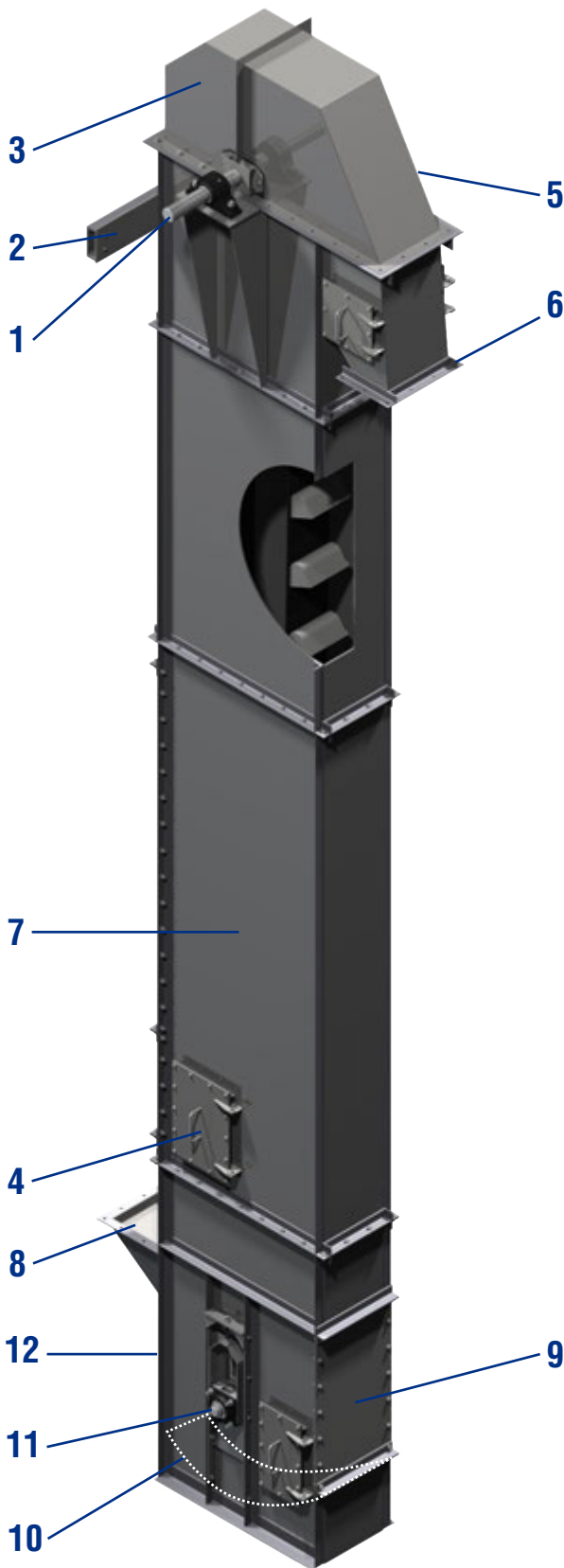
Continuous Discharge Super Capacity elevators are offered as: Series SC with “SC” continuous discharge buckets mounted between two strands of heavy duty chain. These elevators are used where higher capacities, larger lumps, severe duty or higher shaft centers are required.

The feeding and discharge of material is similar to a standard continuous discharge elevator.



Centrifugal Discharge – Mill Duty

Centrifugal Mill Duty elevators are offered as: Series MDC with AC buckets mounted on a chain, Series MDC with buckets mounted on a chain and Series MDB with AC buckets mounted on a belt. The Mill Duty elevators Series MDC have a single medium duty or heavy duty rollerless elevator chain and a single row of AC type buckets. The Series MDB belt type elevators may have a single or double row of AC buckets bolted to a heavy duty rubber covered belt. Product is centrifugally discharged as material passes over the head wheel or pulley. A head mounted traction wheel is utilized in chain type elevators, where practical. Lagged pulleys are standard on belt type Mill Duty elevators.

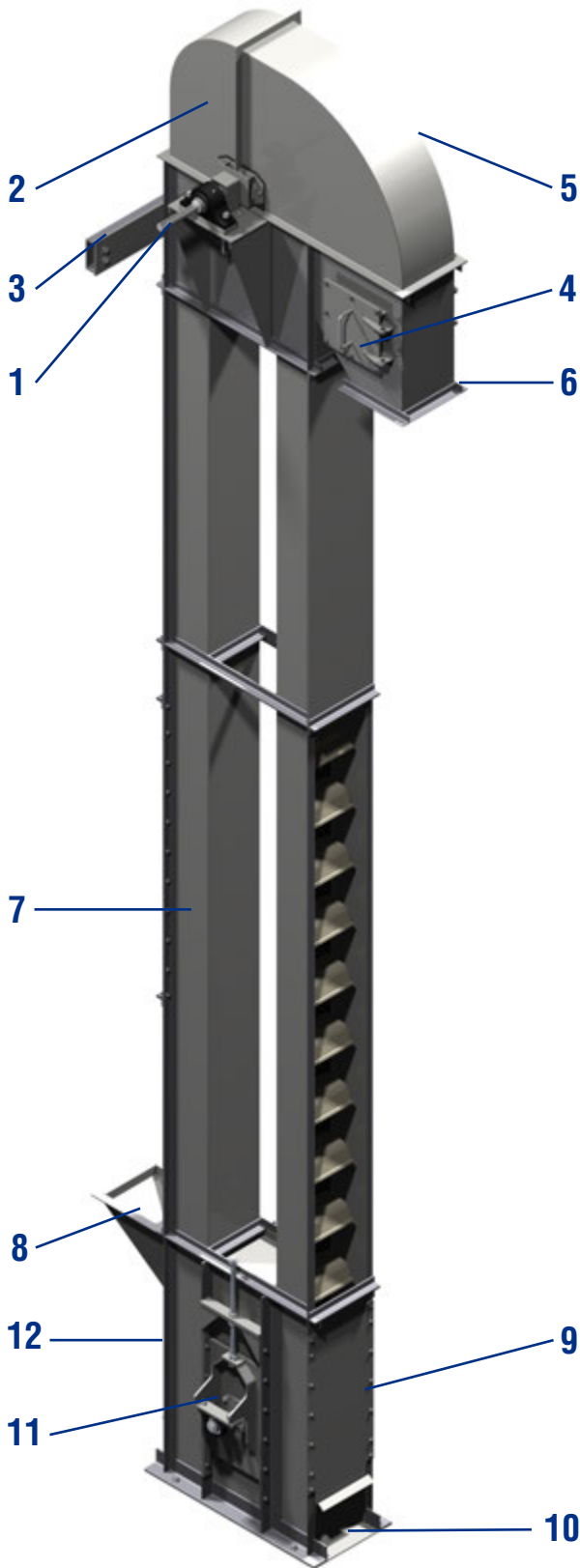


1. **Shaft Mount Type Drive** Furnished as standard. Other types available. Backstops are required to prevent reverse rotation. Various types are available. (Not shown on diagram.)
2. **Torque Arm Bracket** Box channel Construction.
3. **Split Hood** 14 gauge.
4. **Inspection Door** Near side.
5. **Head Section** Fabricated of 12 gauge steel with bearing pedestal structurally reinforced.
6. **Discharge Spout (Style 1 shown)** Fabricated of 10 gauge plate steel with externally adjustable 4-ply belting throat lip (not shown). Style 2 (45°) available. Wear liners available.
7. **Intermediate Section** Fixture welded 12 gauge casing continuously welded for dust tight construction. Sides are cross crimped for additional stiffness. Vertical corner angles are full length.
8. **Inlet** Fabricated of 3/16" thick plate steel.
9. **Clean Out Door** Bolted for easy removal.
10. **Curved Bottom Plate** Reduces build-up in boot
11. **Take-Up Ball Bearing Screw Type** For positive take-up tension. Available with roller bearings. Internal gravity type also available.
12. **Boot** Fabricated of 3/16" thick plate steel.

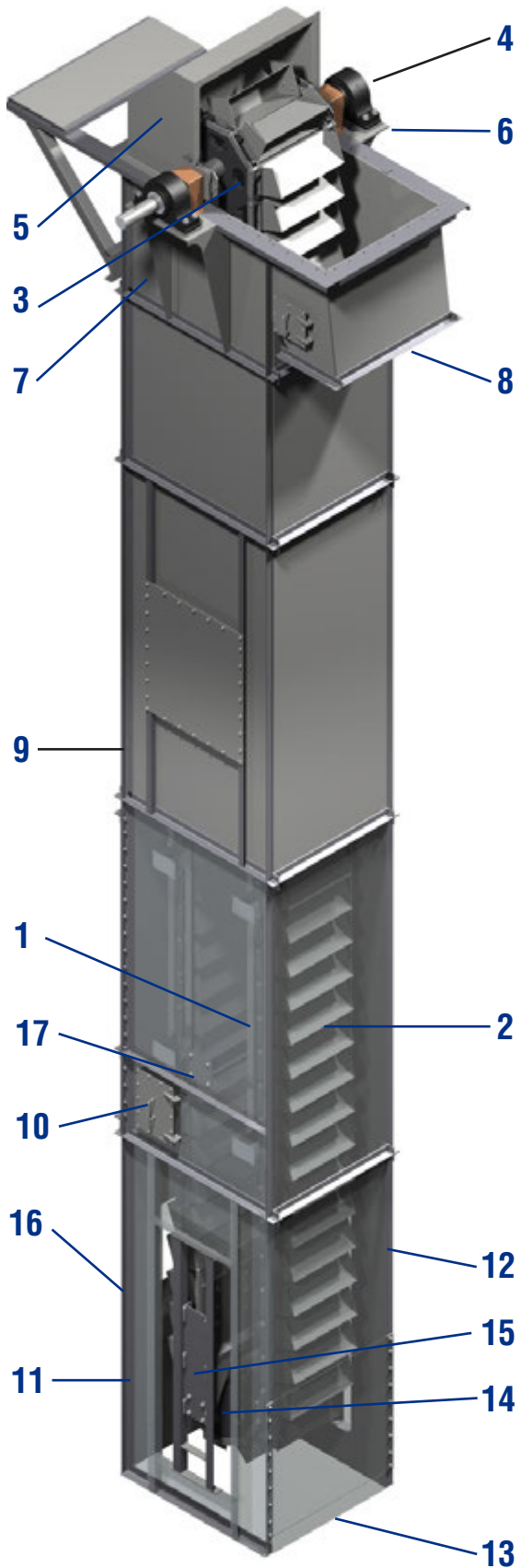
Elevator Number 100 thru 800 Series			
Example – B43-108			
Mounting	Bucket Size	Series	Head Wheel Diameter
I	I	I	I
B	43	1	08
I	I	I	I
B = Belt	43 = 4 × 3	1 = 100	08 = 8" dia.
C = Chain	64 = 6 × 4	2 = 200	
	85 = 8 × 5	5 = 500	
	106 = 10 × 6	7 = 700	
	Etc.	8 = 800	

B43-108 is a belt (B) elevator with 4" × 3" (43) buckets, centrifugal discharge type with boot take up (Series 100), Unit 39. Specifications may be found on pages H-131.

Standard Features of High-Speed Grain Elevator



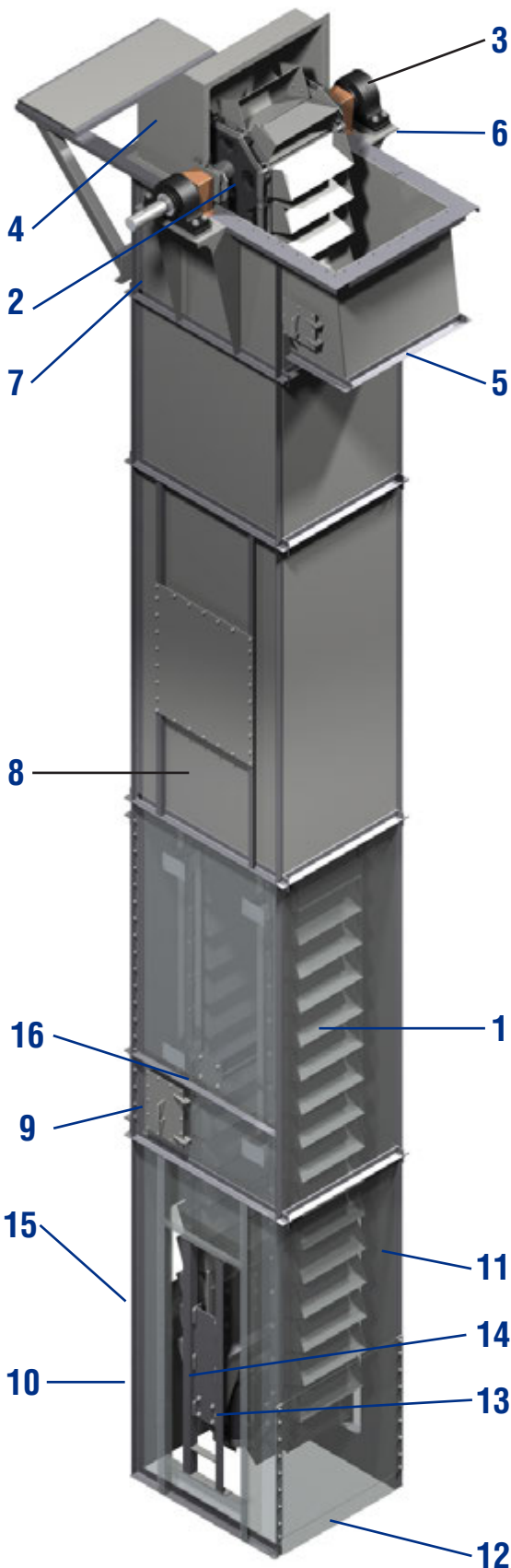
1. **Shaft Mount Type Drive** Furnished as standard. Other types available. Backstops are required to prevent reverse rotation.(Not Shown on drawing.)
2. **High-Speed Type Split Hood** 14 gauge.
3. **Torque Arm Bracket** Box Channel construction.
4. **Inspection Doors**..... One Side.
5. **Head Section**..... Fabricated of 10 gauge steel minimum, with bearing pedestals structurally reinforced.
6. **Discharge Spout (Style 1)**..... Fabricated of 10 gauge steel with externally adjustable 4-ply belting throat lip (not shown). Style 2 (45°) available as well as wear liners.
7. **Intermediate Section** Fixture welded 12 gauge casing continuously welded for dust tight and weather tight constriction. Single casing intermediates are available. (Not Shown on drawing.)
8. **Inlet**..... Fabricated of 3/16" thick steel plate and wear liners are available.
9. **Clean Out Door** Bolted for easy removal.
10. **Flat Bottom with Clean-Out Slides** Reduces material build-up in boot.
11. **Screw Type Ball Bearing Take-up**..... Provides positive take-up tension and bell adjustment. Roller bearings are available as well as spring loaded style take-ups.
12. **Boot Section** Fabricated of 3/16" thick steel minimum.
13. **Sway Bars** Fabricated of structural angle and supplied on 30' intervals.



1. **Double Chain** Double strand of steel bushed "SC" chain.
2. **Buckets** Fabricated steel "SC" continuous style buckets.
3. **Two Segmented Sprockets** Solid body construction in hardened steel.
4. **Roller Bearing Pillow Block**.
5. **Split Removable Hood** With lifting lugs and contoured to minimize packing of material.
6. **Heavy Steel Bearing Support Platform** Designed to distribute the load to the head section.
7. **Head Section** Minimum 1/4" steel plate.
8. **Discharge Stub** With adjustable throat plate and access panel.
9. **Heavy-Duty Intermediates** Of a dust-tight and weather tight construction. Internal angle rails guide the chain.
10. **Hinged Inspection Door**.
11. **Boot Section** 1/4" steel plate construction minimum, supplied with an internal loading leg
12. **Bolted Side & Front Access Panels** Allows access to take-up, bearings and tail sprocket /traction wheel. (Not Shown on drawing.)
13. **Flat Bottom Plate** For better distribution of loads to the foundation.
14. **Hardened Steel Segmented Sprocket or Traction Wheel with Solid Hub**.
15. **Internal Gravity Take-Up** Or optional heavy duty external take-up can be supplied.
16. **Flanged Inlet** allowing easy connection to loading chute.
17. **Take-up loading beam** For servicing the internal components.

Super Capacity Elevator		
Example – SC35-2412		
Elevator Type	Head Wheel Diameter	Bucket Size
| SC |	| 35 |	| 2412|
SC = Super Capacity Chain	35"	24" × 12"

Standard Features of *Martin* Mill Duty Elevator



1. **Buckets** AC style hooded back and high front fabricated steel buckets.
2. **Traction Wheel** with solid body and hardened steel segments is supplied on chain type and a heavy duty pulley is supplied with a belt style AC elevator.
3. **Roller Bearing Pillow Blocks**
4. **Split Steel Hood** 12 Gauge steel plate with lifting lugs and contoured to minimize packing of material.
5. **Discharge Stub** With adjustable throat plate and access panel.
6. **Heavy Steel Bearing Support Platform** designed to distribute the load to the head section.
7. **Head Section** Min. 1/4" steel plate construction.
8. **Heavy-Duty Intermediates** Of dust-tight and weather tight construction.
9. **Hinged Inspection Door**
10. **Boot Section** Min. 1/4" steel plate construction.
11. **Bolted Side and Front Access Panels** Allows access to take-up, bearings and tail sprocket or pulley (Not Shown on Drawing.)
12. **Flat Bottom Plate for Better Distribution of Loads to the Foundation.**
13. **Hardened Steel Segmented Sprocket or Heavy-Duty Tail Pulley.**
14. **Internal gravity take-up** Supplied standard on MD elevators with chain and screw take-up on belt type. An optional external gravity take-up may be supplied.
15. **Flanged Inlet.** Allowing easy connection to loading chute.
16. **Take-Up Loading beam** For servicing internal take-up and internal boot components.

Mill Duty Elevators			
Elevator Type	Head Wheel Diameter	Bucket Size	Type of Spacing or # Rows
Example – MDC26-2010A			
MDC	26	2010	A
MDC = Mill Duty Chain	26"	20" x 10"	
Example – MDC30-2714A-S			
MDC	30	2714	A
MDC = Mill Duty Chain	30"	27" x 14"	
Example – MDB30-1810DR			
MDC	30	1810	DR
MDB = Mill Duty Belt	30"	18" x 10"	DR = Double Row

General

To properly select a bucket elevator, the following factors must be determined:

- 1. Volumetric Capacity** — All bucket elevators are volumetric devices with constant capacity ratings stated in cu.ft./hour, the capacity of any elevator in tons/hour varies with density. See Table 1-1 for conversions if necessary.
- 2. Centers or Lift** — in feet.
- 3. Lump Size and Lump Class** — Lump size is the largest particle dimension, and lump class is the percentage these lumps represent of the whole.
- 4. Material Characteristics** — See Material Classification Code Chart.
- 5. Operating Conditions** — Affecting operation include location (indoors, outdoors), number of hours per day operation, etc.

To Convert	To Cubic Feet per Hour (CF of FT ³ /HR)
Tons per hour (short) TPH	CFH = $\frac{\text{TPH} \times 2000}{\text{Density (in pounds per cubic foot; PCF or LBS/FT}^3\text{)}}$
Pounds per hour Lbs/hour	CFH = $\frac{\text{Pounds per hour}}{\text{Density (in pounds per cubic foot; PCF or LBS/FT}^3\text{)}}$
Bushels per hour BPH	CFH = BPH × 1.24

Procedure

The following steps should be followed to select an elevator:

- 1. Determine proper elevator series** — See material table for recommendation.
- 2. Select Elevator Number** — For the series selected, refer to the Capacity chart, and select an elevator number for which the capacity in cubic feet per hour listed equals or exceeds the required volumetric capacity. If the required volumetric capacity of centers exceed those listed, contact the *Martin* for a recommendation.
- 3. Check Lump Size/Lump Class** — Check actual lump size/lump class against that listed for the elevator number selected. If the actual lump size/lump class is larger than that listed, choose a larger elevator where the actual is equal to or less than that listed.
- 4. Determine Horsepower Requirements** — Consult *Martin*.
- 5. List Specifications** — Refer to capacity, horsepower and dimension charts for the elevator number selected. List the specifications for the preliminary selection of the elevator.

Contact your local *Martin* Service Center or *Martin*, distributor for a recommendation.

Major Class	Material Characteristics Included	Code Designation
Density	Bulk Density, Loose	Actual lbs/PC
Size	Very Fine	No. 200 Sieve (.0029") and Under No. 100 Sieve (.0059") and Under No. 40 Sieve (.016") and Under
	Fine	No. 6 Sieve (.132") and Under
	Granular	1/2" And Under (6" Sieve to 1/2")
		3" And Under (1/2" to 3")
		7" And Under (3" to 7")
	Lumpy	16" And Under (0" to 16") Over 16" To Be Specified, X = Actual Maximum Size
Irregular	Irregular Stringy, Fibrous, Cylindrical, Slabs, Etc.	
Flowability	Very Free Flowing	1
	Free Flowing	2
	Average Flowability	3
	Sluggish	4
Abrasiveness	Mildly Abrasive	5
	Moderately Abrasive	6
	Extremely Abrasive	7
Miscellaneous Properties or Hazards	Builds Up and Hardens	F
	Generates Static Electricity	G
	Decomposes — Deteriorates in Storage	H
	Flammability	J
	Becomes Plastic or Tends to Soften	K
	Very Dusty	L
	Aerates and Becomes a Fluid	M
	Explosiveness	N
	Stickiness — Adhesion	O
	Contaminable, Affecting Use	P
	Degradable, Affecting Use	Q
	Gives Off Harmful or Toxic Gas or Fumes	R
	Highly Corrosive	S
	Mildly Corrosive	T
	Hygroscopic	U
	Interlocks, Mats or Agglomerates	V
	Oils Present	W
	Packs Under Pressure	X
	Very Light and Fluffy — May Be Windswept	Y
	Elevated Temperature	Z

Material Tables



Material	Density LBS/FT ³	Material Code	Recommended Elevator Series ▲
Alfalfa Meal	14-22	B6-45WY	F, H
Almonds, Broken	27-30	C1/2-35Q	C, F, H
Almonds, Whole Shelled	28-30	C1/2-35Q	F
Alum, Fine	45-50	B6-35U	A, F
Alum, Lumpy	50-60	B6-25	A, F
Alumina	55-65	B6-27MY	G
Aluminum Chips, Dry	7-15	E-45V	F
Aluminum Oxide	60-120	A100-17M	F
Ashes, Coal, Dry — 3" •	35-40	D3-46T	C, J, K, L
Asphalt, Crushed — 1/2"	45	C1/2-45	A, C, F, J, K
Bakelite, Fine	30-45	B6-25	F
Baking Powder	40-55	A100-35	F
Bauxite, Crushed — 3"	75-85	D3-36	A, C, F, J, K
Beans, Castor, Whole Shelled	36	C1/2-15W	A, C, F, H
Beans, Navy, Dry	48	C1/2-15	A, C, F, H
Bentonite, Crude	34-40	D3-45X	A, C, I, J, K
Bentonite — 100 Mesh •	50-60	A100-25MXY	A, C, I, J, K, L
Boneblack	20-25	A100-25Y	F
Bonemeal	50-60	B6-35	A, C
Bones, Crushed	35-50	D3-45	A, C, F, H
Bones, Ground	50	B6-35	A, C, F, H
Borax, Fine	45-55	B6-25T	A, C, I, J, K
Bran, Rice-Rye-Wheat	16-20	B6-35NY	A, C
Brewer's Grain, spent, dry	14-30	C1/2-45	A, C
Brewer's Grain, spent, wet	55-60	C1/2-45T	A, C
Buckwheat	37-42	B6-25N	E
Calcium Oxide (See Lime, unslaked)	—	—	—
Cast Iron, Chips	130-200	C1/2-45	F
Cement, Clinker	75-95	D3-36	A, F, I, J, K
Cement, Portland •	94	A100-26M	A, F, I, J, K, L
Chalk, Crushed	75-95	D3-25	A, F, I, J, K
Chalk, Pulverized	67-75	A100-25MXY	A, F, I
Charcoal, Lumps	18-28	D3-45Q	F, I
Cinders, Coal	40	D3-36T	A, F, I, J, K
Clay, Brick, Dry, Fines	100-120	C1/2-36	B
Coal, Anthracite, Sized 1/2"	49-61	C1/2-25	A, F, I, J, K
Coal, Bituminous, Mined, Slack	43-50	C1/2-45T	A, F, I
Coffee, Green Bean	25-32	C1/2-25PQ	A, F
Coffee, Roasted Bean	20-30	C1/2-25PQ	A, F
Coke, Breeze	25-35	C1/2-37	B, D
Coke, Loose	23-35	D7-37	D
Coke, Petrol, Calcined	35-45	D7-37	D, I, J, K, L
Copra, Cake, Ground	40-45	B6-45HW	A, C, F, G
Copra, Cake, Lumpy	25-30	D3-35HW	A, C, F
Copra, Lumpy	22	E-35HW	A, C, F
Copra, Meal	40-45	B6-35HW	A, C, F, G
Cork, Granulated	12-15	C1/2-35JY	F, H
Corn, Cracked	40-50	B6-25P	F, H
Corn Germ	21	B6-35PY	A, C
Corn Grits	40-45	B6-35P	A, C
Cornmeal	32-40	B6-35P	A, C
Corn Shelled	45	C1/2-25	E
Corn Sugar	30-35	B6-35PU	A, C
Cottonseed, Cake, Lumpy	40-45	D7-45HW	A, C
Cottonseed, Dry, Delinted	22-40	C1/2-25X	B, D
Cottonseed, Dry, Not Delinted	18-25	C1/2-45XY	B, D
Cottonseed, Hulls	12	B6-35Y	F, G
Cottonseed, Meal, Extracted	35-40	B6-45HW	A, C
Cottonseed, Meats, Dry	40	B6-35HW	A, C
Distiller's Grain, Spent Dry	30	B6-35	A, C
Dolomite, Crushed	80-100	C1/2-36	A, F, I, J, K
Ebonite, Crushed	63-70	C1/2-35	F
Feldspar, Ground •	65-80	A100-37	A, C, F, I, J, K
Feldspar, Powder	100	A200-36	F, H
Flaxseed	43-45	B6-35X	E
Flaxseed Cake (Linseed Cake)	48-50	D7-45W	C
Flaxseed Meal (Linseed Meal)	25-45	B6-45W	A, C

Material	Density LBS/FT ³	Material Code	Recommended Elevator Series ▲
Fuller's Earth, Dry, Raw	30-40	A40-25	B, D
Fuller's Earth, Oily, Spent	60-65	C1/2-450W	B, D
Glass, Batch	80-100	C1/2-37	B, D
Granite, Fine	80-90	C1/2-27	F, I, J, K
Gypsum, Calcined •	55-60	B6-35U	A, C, F, H, I, J, K
Gypsum, Calcined, Powdered •	60-80	A100-35U	A, F, I, J, K, L
Gypsum, Raw — 1"	70-80	D3-25	F, I, J, K
Hops, Spent, Dry	35	D3-35	A, C
Hops, Spent, Wet	50-55	D3-45V	A, C
Ice, Crushed	35-45	D3-35Q	A, F
Ilmenite Ore	140-160	D3-37	A, C, F, G, I, J, K
Lime, Ground, Unslaked	60-65	B6-35U	A, C, F, G, I, J, K
Lime, Hydrated	40	B6-35LM	F, I
Lime, Pebble	53-56	C1/2-25HU	A, F, I, J, K
Limestone, Agricultural •	68	B6-35	A, C, F, H, I, J, K
Limestone, Crushed	85-90	DX-36	F, H, I, J, K
Malt, Dry, Ground	20-30	B6-35NP	A, C
Malt, Meal	36-40	B6-25P	A, C
Malt, Dry Whole	20-30	C1/2-35N	A, C
Marble, Crushed	80-95	B6-37	F, I
Milk, Malted	27-30	A40-45PX	A
Oats	26	C1/2-25MN	E
Oats, Rolled	19-24	C1/2-35NY	A, C
Oxalic Acid Crystals – Ethane Diacid Crystals	60	B6-35QS	B, D
Phosphate Rock, Broken	75-85	DX-36	A, C, F, H, I, J, K
Phosphate Rock, Pulverized •	60	B6-36	A, C, F, H, I, J, K
Potash (Muriate) Dry	70	B6-37	A, C, F, I, J, K
Pumice — 1/8" •	42-48	B6-46	F, I, J, K
Rice, Bran	20	B6-35NY	E
Rice, Grits	42-45	B6-35P	A, C
Rice, Hulled	45-49	C1/2-25P	E
Rye	42-48	B6-15N	E
Salt Cake, Dry Coarse	85	B6-36TU	A, C, F, H, J, K, L
Salt, Dry Fine	70-80	B6-36TU	F, H, I, J, K, L
Sand Dry Bank (Damp)	110-130	B6-47	B, G
Sand Dry Bank (Dry)	90-110	B6-37	B, G
Sand Foundry (Shake Out)	90-100	D3-37Z	B, G
Shale, Crushed	85-90	C1/2-36	B, H, I, J, K
Slag, Blast Furnace, Crushed	130-180	D3-37Y	F, I, J, K
Slate, Crushed — 1/2"	80-90	C1/2-36	F, I, J, K
Soda Ash, Heavy •	55-65	B6-36	A, C, I, J, K
Soda Ash, Light	20-35	A40-36Y	F, H, I
Sodium Phosphate	50-60	A-35	A, F
Soybean, Cake	40-43	D3-35W	C
Soybean, Cracked	30-40	C1/2-36NW	A
Soybean, Flake, Raw	18-25	C1/2-35Y	A, C
Soybean, Flour	27-30	A40-35Mn	B, D
Soybean Meal, Cold	40	B6-35	A, C
Soybean Meal, Hot	40	B6-35T	A, C
Soybeans, Whole	45-50	C1/2-26NW	E
Sugar Beet, Pulp, Dry	12-15	C1/2-26	F, H
Sugar Beet, Pulp, Wet	25-45	C1/2-35X	F, H
Sugar, Raw	55-65	B6-35PX	A, C
Trisodium Phosphate, Granular	60	B6-36	A, F
Wheat	45-48	C1/2-25N	E
Wheat, Cracked	40-45	B6-25N	A, C
Wheat, Germ	18, 28	B6-25	A, C
Wood Chips, Screened	10-30	D3-45VY	B, D

• Buckets should be drilled on the bottom for air venting to assure rated capacity.

▲ Elevator Series Designation

A = Series 100 Chain	G = Series 700 Belt
B = Series 100 Belt	H = Series 800 Chain
C = Series 200 Chain	I = Series SC Double Chain
D = Series 200 Belt	J = Series MDC Chain
E = Series 500 Belt	L = Series MDB Belt
F = Series 700 Chain	



Series 100 Chain (Series 200 is for Head Take-up)

Centrifugal discharge chain type elevators handle a variety of relatively free-flowing dry materials with small to medium lump sizes that are mildly to moderately abrasive.

Buckets

Capacities and horsepower listed are for style "AA" buckets. Style "A", "AA-RB" and "Salem" can be furnished. Style "C" may also be used to handle wet or sticky materials. Consult the factory for a specific recommendation.

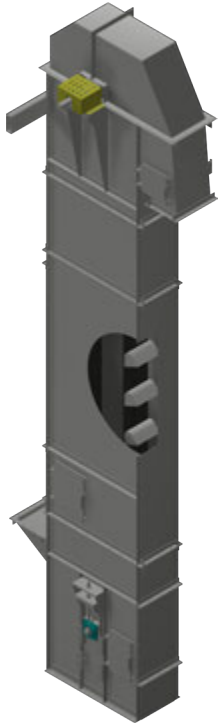
Chain

Centrifugal discharge chain type elevators are furnished with either combination chain for light to medium service or all steel (steel knuckle) chain for medium to severe service or when a higher chain working load is required.

Elevator	Capacity	Buckets				Chain			Lump Size		Nominal Casing Size		Head Sprocket			Boot Sprocket		
	Max CFH	Width	Proj.	Depth	Spacing	Number	Pitch	F.P.M.	100%	10%	Width	Depth	# Teeth	Pitch Dia.	RPM	# Teeth	Pitch Dia.	Shaft Dia.
C43-108	73	4	2.75	3	9.25	977	2.380	125	.5	1	8	18	10	7.50	63.7	10	7.5	1.500
C64-121	250	6	4	4.25	16	N102B	4.000	250	.5	3	11.75	39	16	20.50	39.4	14	18	1.500
C85-121	530	8	5	5.5	16	HSB102B	4.000	225	.75	3	11.75	39	16	20.50	41.9	10	13	1.500
C85-124	590	8	5	5.5	16	HSB102B	4.000	250	1	3.5	13.75	42	19	24.25	39.4	14	18	2.000
C106-124	1010	10	6	6.25	16	N102B	4.000	250	1.25	3.5	13.75	48	19	24.25	39.4	16	20.5	2.000
C127-125	1425	12	7	7.25	18	HSB110	6.000	250	1.25	4	15.75	48	13	25.00	38.2	9	17.5	2.438
C127-131	1765	12	7	7.25	16	N102B	4.000	275	1.25	4	17.75	54	24	30.50	34.4	19	24.25	2.438
C147-131	2135	14	7	7.25	16	N102B	4.000	275	1.25	4	19.75	54	24	30.50	34.4	19	24.25	2.438
C168-131	2800	16	8	8.5	18	HSB110	6.000	275	1.5	4.5	19.75	54	16	30.75	34.2	11	21.25	2.438
C188-131	3220	18	8	8.5	18	HSB110	6.000	275	1.5	4.5	24.75	54	16	30.75	34.2	11	21.25	2.438
C208-131	3460	20	8	8.5	18	HSB110	6.000	275	1.5	4.5	24.75	54	16	30.75	34.2	11	21.25	2.438
C248-131	4700	24	8	8.5	18	HSB833	6.000	275	1.5	4.5	30.75	54	16	30.75	34.2	11	21.25	3.000
C2410-131	6520	24	10	10.5	18	HSB833	6.000	275	2	4.5	30.75	54	16	30.75	34.2	11	21.25	3.000

All Dimensions in inches.
 Max. CFH capacity is at 75% bucket load.
 Consult *Martin* for head shaft size and horsepower requirements.
 Other chain may be substituted based on chain pull requirements.

Centrifugal Discharge Belt



Series 100 Belt (Series 200 is for Head Take-up)

Centrifugal discharge belt type elevators handle a variety of relatively free-flowing dry materials with small to medium lump sizes that are mildly, moderately or extremely abrasive.

Buckets

Capacities listed are for style "AA" buckets. Style "A", "AA-RB" and "Salem" can be furnished. Style "C" may also be used to handle wet or sticky materials. Consult the factory for a specific recommendation.

Belt

Centrifugal discharge belt type elevators are typically furnished with 100% polyester carcass PVC belting or rubber covered ply belts specifically designed for elevator service. Many other types of belts and covers are available.

Elevator	Capacity	Buckets				Belt		Lump Size		Nominal Casing Size		Head Pulley		Boot Pulley	
	Max CFH	Width	Proj.	Depth	Spacing	Width	F.P.M.	100%	10%	Width	Depth	Pitch Dia.	RPM	Pitch Dia.	Shaft Dia.
B43-108	95	4	2.75	3	8	5	140	.25	1	8	18	8	62.9	8	1.500
B64-124	325	6	4	4.25	13	7	260	.5	2.5	11.75	39	24	40.5	24	1.500
B85-120	540	8	5	5.5	16	9	230	.75	2.5	11.75	39	20	42.9	20	1.500
B85-124	590	8	5	5.5	16	9	250	.75	3	13.75	42	24	39	24	2.000
B106-124	1010	10	6	6.25	16	11	250	1	3	15.75	48	24	39	24	2.000
B127-124	1425	12	7	7.25	18	13	250	1.25	4	17.75	48	24	39	24	2.438
B127-130	1600	12	7	7.25	18	13	280	1.25	4	17.75	54	30	35.1	30	2.438
B147-130	1930	14	7	7.25	18	15	280	1.25	4	19.75	54	30	35.1	30	2.438
B168-130	2860	16	8	8.5	18	17	280	1.5	4.5	22.75	54	30	35.1	30	2.438
B188-130	3280	18	8	8.5	18	19	280	1.5	4.5	24.75	54	30	35.1	30	2.438
B208-130	3530	20	8	8.5	18	21	280	1.5	4.5	26.75	54	30	35.1	30	2.438
B127-142S	4490	24	8	8.5	16	24	350	1.25	4	28	66	42	35.1	42	3.000
B2410-130	6640	24	10	10.5	18	25	280	1.5	4.5	30.75	60	30	35.1	30	3.000

All Dimensions in inches.
 Max. CFH capacity is at 75% bucket load.
 Consult [Martin](#) for head shaft size and horsepower requirements.



Series 700 Chain (Series 800 is for Head Take-up)

Continuous discharge chain type elevators will handle various free-flowing dry or sluggish materials which contain medium to large lumps and are mildly, moderately, or extremely abrasive.

Buckets

Capacities listed are for a medium-front, non-overlapping style fabricated steel bucket. High front style buckets are available. Consult the factory for a specific recommendation.

Chain

Continuous discharge chain type elevators are furnished with combination chain for mild to moderate service or all steel (steel knuckle) chain for moderate to severe service or when a higher chain working load is required.

Elevator	Capacity	Buckets				Chain			Lump Size		Nominal Casing Size		Head Sprocket			Boot Sprocket		
	Max CFH	Width	Proj.	Depth	Spacing	Number	Pitch	F.P.M.	100%	10%	Width	Depth	# Teeth	Pitch Dia.	RPM	# Teeth	Pitch Dia.	Shaft Dia.
C85-721	570	8	5	7.75	8	HSB102B	4.000	120	.75	2.5	11.75	39	16	20.5	22.4	11	20.5	1.50
C105-721	730	10	5	7.75	8	HSB102B	4.000	120	.75	2.5	13.75	39	16	20.5	22.4	11	20.5	2.000
C107-725	1010	10	7	11 5/8	12	HSB110	6.000	125	1	3	13.75	48	13	25	19.1	10	25	2.000
C127-725	1230	12	7	11 5/8	12	HSB110	6.000	125	1	3	15.75	48	13	25	19.1	10	25	2.438
C147-725	1425	14	7	11 5/8	12	HSB110	6.000	125	1	3	17.75	48	13	25	19.1	10	25	2.438
C128-725	1550	12	8	11 5/8	12	HSB110	6.000	125	1.25	4	15.75	48	13	25	19.1	9	25	2.438
C148-725	1828	14	8	11 5/8	12	HSB110	6.000	125	1.25	4	17.75	48	13	25	19.1	9	25	2.438
C168-725	2110	16	8	11 5/8	12	HSB110	6.000	125	1.5	4.5	19.75	48	13	25	19.1	9	25	2.438
C188-725	2365	18	8	11 5/8	12	HSB110	6.000	125	1.5	4.5	22.75	48	13	25	19.1	9	25	2.438
C208-725	2800	20	8	11 5/8	12	HSB833	6.000	125	1.5	4.5	24.75	48	13	25	19.1	9	25	2.438
C248-725	3400	24	8	11 5/8	12	HSB833	6.000	125	1.5	4.5	28.75	48	13	25	19.1	9	25	3.000
C2010-725	3900	20	10	11 5/8	12	HSB833	6.000	125	2	4.5	24.75	54	13	25	19.1	9	25	3.000
C2410-725	4670	24	10	11 5/8	12	HSB833	6.000	125	2	4.5	28.75	54	13	25	19.1	9	25	3.000

All Dimensions in inches.
 Max. CFH capacity is at 75% bucket load.
 Consult *Metric* for head shaft size and horsepower requirements.
 Other chain may be substituted based on chain pull requirements.

Continuous Discharge Belt



Series 700 Belt (Series 800 is for Head Take-up)

Continuous discharge belt type elevators will handle various free-flowing dry or sluggish materials which contain medium to large lumps and are mildly, moderately, or extremely abrasive.

Buckets

Capacities listed are for a medium front, non-overlapping style fabricated steel bucket. High front style buckets are available. Consult the factory for a specific recommendation.

Belt

Continuous discharge belt type elevators are typically furnished with 100% polyester carcass PVC belting or rubber covered ply belts specifically designed for elevator service. Many other types of belt and covers are available.

Elevator	Capacity	Buckets				Belt		Lump Size		Nominal Casing Size		Head Pulley		Boot Pulley	
	Max CFH	Width	Proj.	Depth	Spacing	Width	F.P.M.	100%	10%	Width	Depth	Pitch Dia.	RPM	Pitch Dia.	Shaft Dia.
B85-720	760	8	5	7.75	8	8	160	.75	2.5	11.75	39	20.00	29.8	14	1.500
B105-720	975	10	5	7.75	8	11	160	.75	2.5	13.75	39	20.00	29.8	16	2.000
B107-724	1300	10	7	11.625	12	11	160	1	3	13.75	48	24.00	24.9	20	2.000
B127-724	1570	12	7	11.625	12	13	160	.75	3	15.75	48	24.00	24.9	20	2.438
B147-724	1825	14	7	11.625	12	15	160	1	3	17.75	48	24.00	24.9	20	2.438
B128-724	1980	12	8	11.625	12	13	160	1.25	4	15.75	48	24.00	24.9	20	2.438
B148-724	2340	14	8	11.625	12	15	160	1.25	4	17.75	48	24.00	24.9	20	2.438
B168-724	2700	16	8	11.625	12	17	160	1.25	4.5	19.75	48	24.00	24.9	20	2.438
B188-724	3025	18	8	11.625	12	19	160	1.5	4.5	22.75	48	24.00	24.9	20	2.438
B208-724	3560	20	8	11.625	12	21	160	1.5	4.5	24.75	48	24.00	24.9	20	2.438
B248-724	4320	24	8	11.625	12	25	160	1.5	4.5	26.75	48	24.00	24.9	20	3.000
B2010-724	4970	20	10	11.625	12	21	160	1.5	4.5	24.75	54	24.00	24.9	20	3.000
B2410-724	5975	24	10	11.625	12	25	160	1.5	4.5	28.75	60	24.00	24.9	20	3.000

All Dimensions in inches.
 Max. CFH capacity is at 75% bucket load.
 Consult *Martin* for head shaft size and horsepower requirements.



Series 500 Belt

The High-Speed centrifugal discharge type elevator is specifically designed to handle free flowing dry materials such as 48 lb. grains which have a small lump size and are mildly abrasive.

Buckets

Capacities and horsepower listed are for style "HD-MAX" buckets. Other style and materials of construction can be supplied. Consult factory for a specific recommendation.

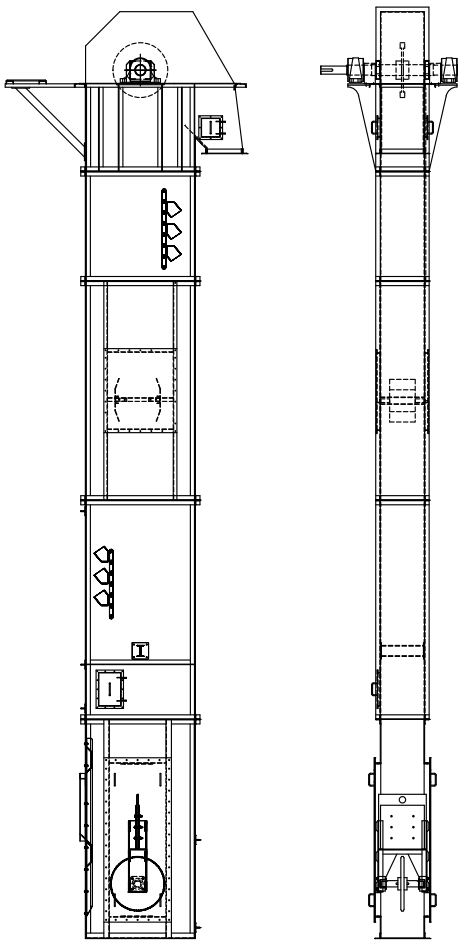
Belt

Centrifugal discharge High-Speed Grain elevators are supplied with 100% polyester carcass PVC belting or rubber covered belts specially designed for elevator service. Many other types of belts and covers are available

Part Number	No. Bucket Rows	Capacity				Buckets Standard Duty Plastic				Belt Width	Pulley Width	Head Pulley Diam.	Boot Pulley Diam.
		C.F.H.		At Speed		Typical Style	Width	Proj.	Spacing				
		@ "Y-Y +5 Deg." Max. Useable	@ "Y - Y" (W.L.)	Belt RPM	H.S. RPM								
B64-508 *	1	782	697	265	119	HD-MAX	6.250	4.500	7	7	7	8	8
B65-512A	1	1,079	980	350	107	HD-MAX	6.250	5.625	10	7	8	12	12
B65-512B	1	1,541	1,400	350	107	HD-MAX	6.250	5.625	7	7	8	12	12
B95-518A	1	1,853	1,640	440	90	HD-MAX	9.375	5.625	12	10	11	18	18
B95-518B	1	2,470	2,187	440	90	HD-MAX	9.375	5.625	9	10	11	18	18
B95-518C	1	3,176	2,812	440	90	HD-MAX	9.375	5.625	7	10	11	18	18
B96-524	1	3,974	3,600	460	70	HD-MAX	9.375	6.625	8	10	11	24	24
B96-530	1	4,406	3,991	510	63	HD-MAX	9.375	6.625	8	10	11	30	30
B106-530	1	4,931	4,534	510	63	HD-MAX	10.375	6.625	8	11	12	30	30
B136-530	1	6,388	5,864	510	63	HD-MAX	13.375	6.625	8	14	15	30	30
B127-536	1	8,879	8,123	600	62	HD-MAX	12.500	7.750	9	13	15	36	36
B147-536	1	10,747	9,900	600	62	HD-MAX	14.500	7.750	9	15	16	36	36
B167-536	1	12,000	11,289	600	62	HD-MAX	16.500	7.750	9	17	19	36	36
B168-542	1	14,751	13,798	620	55	HD-MAX	16.500	8.750	10	17	19	42	42
B188-542	1	16,740	15,764	620	55	HD-MAX	18.500	8.750	10	20	22	42	42
B2108-548	2	20,648	19,164	700	55	HD-MAX	10.500	8.750	10	22	24	48	48
B2138-548	2	26,412	23,706	700	55	HD-MAX	13.500	8.750	10	28	30	48	48
B2168-548	2	33,314	31,681	700	55	HD-MAX	16.500	8.750	10	34	36	48	48
B2188-548	2	37,800	35,595	700	55	HD-MAX	18.500	8.750	10	38	40	48	48
B3168-548	3	49,971	47,521	700	55	HD-MAX	16.500	8.750	10	50	52	48	48
B4158-548	4	63,222	59,652	700	55	HD-MAX	15.500	8.750	10	62	64	48	48
B4188-548	4	75,600	71,190	700	55	HD-MAX	18.500	8.750	10	74	76	48	48

* Single Leg Intermediate Casing: 50' maximum height.
 Head shaft diameter to be determined by customer's application and specifications.
 Plastic buckets are available as Nylon, HDP or Urethane. Steel is available on special request.

Super Capacity Continuous Discharge Chain



Series SC Chain Elevator

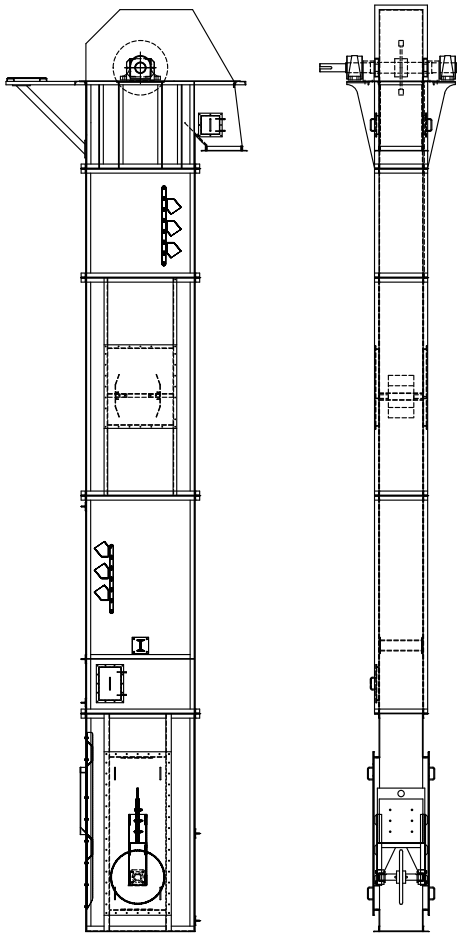
- Built to handle friable, heavy or abrasive materials typical of the aggregate and cement industries
- Buckets are mounted between two strands of chain and project back towards the center of the elevator thus carry a much larger capacity and larger lump sizes because of their deeper design
- The SC elevator's continuous discharge design allows for the operation of the elevator at much slow speeds greatly increasing chain and sprocket life
- As a result of the increased life of wear components, maintenance costs are reduced
- Higher shaft centers is also a benefit of the *Martin* SC elevator's double chain design
- The Super-Capacity elevator is designed to handle Free-Flowing materials with particles ranging from fines up to heavy lumps

Super Capacity Elevator w SC Buckets SC Series Double Chain

Elevator	Max CFH Capacity	Bucket	Spacing	Chain	Speed	Lump Size	Casing Size	Head Wheel	RPM	Boot Sprocket	Shaft Diam.
SC31-128	2250	12 × 8.75 × 11.625	12	6102 1/2	100	2 to 4	26 × 56	31.36	12.2	8T-31.36PD	2.438
SC31-148	2700	14 × 8.75 × 11.625	12	6102 1/2	100	2 to 4	28 × 56	31.36	12.2	8T-31.36PD	2.438
SC31-168	3150	16 × 8.75 × 11.625	12	6102 1/2	100	2.5 to 6	30 × 56	31.36	12.2	8T-31.36PD	3
SC31-188	3600	18 × 8.75 × 11.625	12	6102 1/2	100	2.5 to 6	32 × 56	31.36	12.2	8T-31.36PD	3
SC31-208	4050	20 × 8.75 × 11.625	12	6102 1/2	100	2.5 to 6	34 × 56	31.36	12.2	8T-31.36PD	3
SC35-1612	5625	16 × 12.75 × 17.625	18	9124	125	3.5 to 8	33 × 68	34.77	13.7	12T-34.77PD	3
SC35-2012	7125	20 × 12.75 × 17.625	18	9124	125	3.5 to 8	37 × 68	34.77	13.7	12T-34.77PD	3
SC35-2412	8250	24 × 12.75 × 17.625	18	9124	125	3.5 to 8	41 × 68	34.77	13.7	12T-34.77PD	3.438
SC35-3012	10500	30 × 12.75 × 17.625	18	9124	125	3.5 to 8	47 × 68	34.77	13.7	12T-34.77PD	3.438
SC35-3612	12375	36 × 12.75 × 17.625	18	9124	125	3.5 to 8	53 × 68	34.77	13.7	12T-34.77PD	3.438
SC35-4212	14450	42 × 12.75 × 17.625	18	9150	125	3.5 to 8	60 × 68	34.77	13.7	12T-34.77PD	3.438
SC35-4812	16500	48 × 12.75 × 17.625	18	9150	125	3.5 to 8	66 × 68	34.77	13.7	12T-34.77PD	3.438

Notes: 6102 1/2 Chain is 12 Pitch
9124 Chain is 9 Pitch
9150 Chain is 9 Pitch

All Dimensions in inches.
Max. CFH capacity is at 75% bucket load.
Consult *Martin* for head shaft size and horsepower requirements.
Other chain may be substituted based on chain pull requirements.



Series MDC Mill Duty Elevator with AC Buckets

- Built for the severe duty required of industries like cement, rock, lime, and gypsum
- Buckets are mounted to a single chain in a continuous sequence
- Material is fed directly into the bucket to minimize digging action, reducing wear and horsepower requirements
- Centrifugal force causes discharge of buckets as they pass over head wheel
- Designed to handle free-flowing material with particles ranging from fines up to 2" lumps
- Most commonly supplied with a heavy duty steel rollerless chain

Mill Duty with AC Buckets & Chain - MDC Series

Elevator	Max CFH Capacity	Bucket	Spacing	Chain	Speed	Lump Size	Casing Size	Head Wheel	RPM	Boot Sprocket	Shaft Diam.
MDC26-128	2230	12 × 8 × 8.5	18	ER-856	265	Fines to 2	20 × 56	26	36	13T-25.07PD	3
MDC26-148	2625	14 × 8 × 8.5	18	ER-856	265	Fines to 2	22 × 56	26	36	13T-25.07PD	3
MDC26-128	3340	12 × 8 × 8.5	12	ER-856	265	Fines to 2	20 × 56	26	36	13T-25.07PD	3
MDC26-148	3935	14 × 8 × 8.5	12	ER-856	265	Fines to 2	22 × 56	26	36	13T-25.07PD	3
MDC26-168	4530	16 × 8 × 8.5	12	ER-856	265	Fines to 2	24 × 56	26	36	13T-25.07PD	3
MDC26-1810A	4930	18 × 10 × 10.5	18	ER-856	265	Fines to 2	26 × 64	26	36	13T-25.07PD	3
MDC26-2010A	5470	20 × 10 × 10.5	18	ER-856	265	Fines to 2	28 × 64	26	36	13T-25.07PD	3
MDC26-2410A	6760	24 × 10 × 10.5	18	ER-856	265	Fines to 2	32 × 64	26	36	13T-25.07PD	3
MDC26-1810B	7400	18 × 10 × 10.5	12	ER-859	265	Fines to 2	26 × 64	26	36	13T-25.07PD	3
MDC26-2010B	8200	20 × 10 × 10.5	12	ER-859	265	Fines to 2	28 × 64	26	36	13T-25.07PD	3
MDC26-2410B	10136	24 × 10 × 10.5	12	ER-859	265	Fines to 2	32 × 64	26	36	13T-25.07PD	3.438

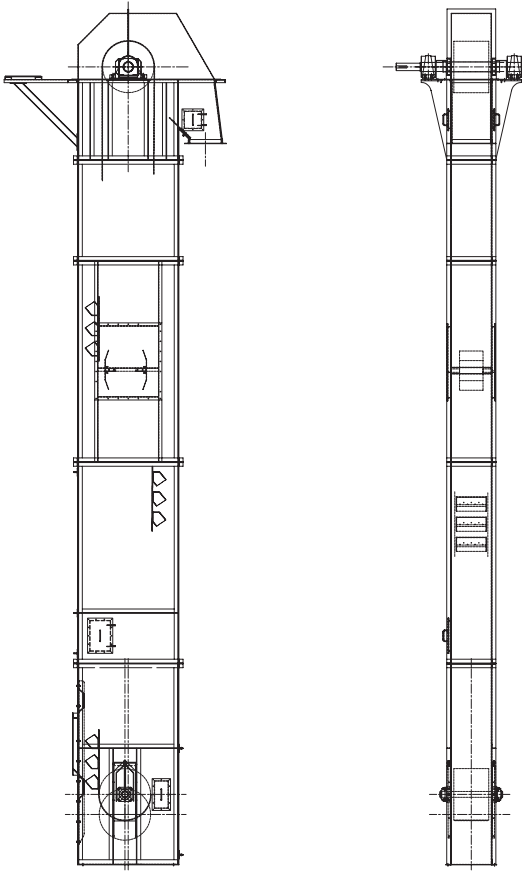
Notes:
 6102 1/2 Chain is 12 Pitch
 9124 Chain is 9 Pitch
 9150 Chain is 9 Pitch

All Dimensions in inches.
 Max. CFH capacity is at 75% bucket load.
 Consult *Metric* for head shaft size and horsepower requirements.
 Other chain may be substituted based on chain pull requirements.

Mill Duty Centrifugal Discharge Belt

Series MDB Mill Duty Elevator with AC Buckets

- Built for the severe duty required of industries like cement, rock, lime, and gypsum
- Buckets are mounted to a single belt in a continuous sequence
- Material is fed directly into the bucket to minimize digging action, reducing wear and horsepower requirements
- Centrifugal force causes discharge of buckets as they pass over head pulley
- Designed to handle free-flowing material with particles ranging from fines up to 2" lumps
- Most commonly supplied with a heavy belt or steel web core belt



Mill Duty with AC Buckets & Belt - MDB Series

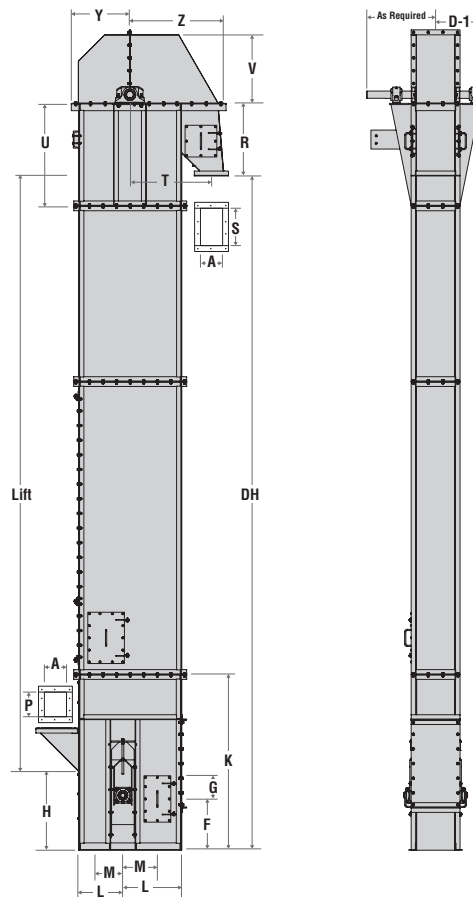
Elevator	Max CFH Capacity	Bucket	Spacing	Belt	Speed	Lump Size	Casing Size	Head Wheel	RPM	Boot Sprocket	Shaft Diam.
MDB30-128A	2520	12 × 8 × 8.5	18	14	300	1.5 to 4	22 × 58	30.00	37.6	24.00	3.000
MDB30-148A	2970	14 × 8 × 8.5	18	16	300	1.5 to 4	24 × 58	30.00	37.6	24.00	3.000
MDB30-168A	3420	16 × 8 × 8.5	18	18	300	1.5 to 4	26 × 58	30.00	37.6	24.00	3.000
MDB30-128B	3780	12 × 8 × 8.5	12	14	300	1.5 to 4	22 × 58	30.00	37.6	24.00	3.000
MDB30-148B	4455	14 × 8 × 8.5	12	16	300	1.5 to 4	24 × 58	30.00	37.6	24.00	3.000
MDB30-168B	5130	16 × 8 × 8.5	12	18	300	1.5 to 4	26 × 58	30.00	37.6	24.00	3.000
MDB30-1810A	5580	18 × 10 × 10.5	18	20	300	2 to 5	28 × 64	30.00	37.6	24.00	3.000
MDB30-2010A	6190	20 × 10 × 12.5	18	22	300	2 to 5	30 × 64	30.00	37.6	24.00	3.000
MDB30-2410A	7650	24 × 10 × 10.5	18	26	300	2 to 5	34 × 64	30.00	37.6	24.00	3.000
MDB30-1810B	8370	18 × 10 × 10.5	12	28	300	2 to 5	28 × 64	30.00	37.6	24.00	3.000
MDB30-2010B	9290	20 × 10 × 10.5	12	30	300	2 to 5	30 × 64	30.00	37.6	24.00	3.000
MDB30-2410B	11475	24 × 10 × 10.5	12	34	300	2 to 5	34 × 64	30.00	37.6	24.00	3.475
MDB30-1610DR	12500	16 × 10 × 10.5	12	34	275	1.5 to 4	42 × 64	30.00	34.4	30.00	3.475
MDB30-1810DR	15345	18 × 10 × 10.5	12	38	275	2 to 4.5	46 × 64	30.00	34.4	30.00	3.475
MDB30-2010DR	17030	20 × 10 × 10.5	12	42	275	2.5 to 4.75	50 × 64	30.00	34.4	30.00	3.475
MDB30-2410DR	21040	24 × 10 × 10.5	12	50	275	2.5 to 4.75	58 × 64	30.00	34.4	30.00	3.475

All Dimensions in inches.

Max. CFH capacity is at 75% bucket load.

Consult *Metric* for head shaft size and horsepower requirements.

Other chain may be substituted based on chain pull requirements.



Standard Elevator - 100 & 200 Series

Elevator Number				Casing		Boot										Head									
Chain Series 100	Belt Series 700	Belt Series 100	Chain Series 700	A	B	F	G	H	J	K	L	M	N	P	R	S	T	U	V	Y	Z	D-1			
C43-108		B43-108		8	18	9	6	27.25	36.75	42	9	6	10	6	15	8	17.5	36	14	9	20.25	13			
C64-121		B64-124		11.75	39	14	9	26.5	43	72	19.5	16.5	15.5	13	31.5	10	30.5	42	21.5	19.5	32.5	14			
C85-121	B85-720		C85-721	11.75	39	14	9	26.5	43	72	19.5	16.5	15.5	13	31.5	10	30.5	42	21.5	19.5	32.5	14			
	B105-720	B85-120	C105-721	13.75	39	14	9	26.5	43	72	19.5	16.5	17.5	13	31.5	10	30.5	42	21.5	19.5	32.5	15			
C85-124		B85-124		13.75	42	16	9	32.5	50	72	21	18	17.5	13	32.5	10	33.25	42	24	21	36.25	15.5			
C106-124	B107-724		C107-725	13.75	48	19	9	40.5	60	72	24	21	17.5	15	35.75	13	36.5	48	27.5	24	40.625	16			
C127-125	B127-724 B128-724	B106-124	C127-725 C128-725	15.75	48	19	9	40.5	60	72	24	21	19.5	15	35.75	13	36.5	48	27.5	24	40.625	17			
		B127-124S		28	66	26	10	29.75	60.5	72	32	29	30.5	26.5	36	17	46.5	48	36.5	32	53	24			
	B147-724 B148-724	B127-130	C147-725 C148-725	17.75	48	19	10	40.5	60	72	24	21	21.5	15	35.75	13	36.5	48	27.5	24	40.625	18			
C127-131				17.75	54	21	10	36	60.5	72	27	24	21.5	17	38.25	17	41.5	48	31	27	45	19.25			
	B168-724		C168-725	19.75	48	20	10	40.5	60	72	24	21	23.5	15	35.75	13	36.5	48	27.5	24	40.625	16			
C147-131		B147-130		19.75	54	21	10	39	60.5	72	27	24	23.5	17	38.25	17	41.5	48	31	27	45	20			
	B188-724		C188-725	22.75	48	19	10	40.5	60	72	24	21	26.5	15	35.75	13	36.5	48	27.5	24	40.625	21			
C168-131		B168-130		22.75	54	21	10	39	60.5	72	27	24	26.5	17	38.25	17	41.5	48	31	27	45	22			
	B208-724		C208-725	24.75	48	19	10	40.5	60	72	24	21	28.5	19	35.25	13	36.5	48	27.5	24	40.625	22			
C188-131 C208-131	B2010-724	B188-130	C2010-725	24.75	54	21	10	40.5	60.5	72	27	24	28.5	19	38.25	17	41.5	48	31	27	45	23			
	B248-724		C248-725	28.75	48	19	10	39	60	72	24	21	32.5	22.5	35.25	13	36.5	48	27.5	24	40.625	24			
C248-131		B208-130	C2410-725	28.75	54	21	10	40.5	60.5	72	27	24	32.5	22.5	38.25	17	41.5	48	31	27	45	25			
C2410-131	B2410-724	B2410-130		30.75	60	23	10	38	60.5	72	29	27	34.5	22.5	40	21	46.5	60	31	30	52	26			

All Dimensions in inches.
 ① NOT certified for construction.
 ② Normal maximum for largest head shaft listed.
 For units not shown, contact www.martin.com.

Dimensions of High-Speed Grain Elevators

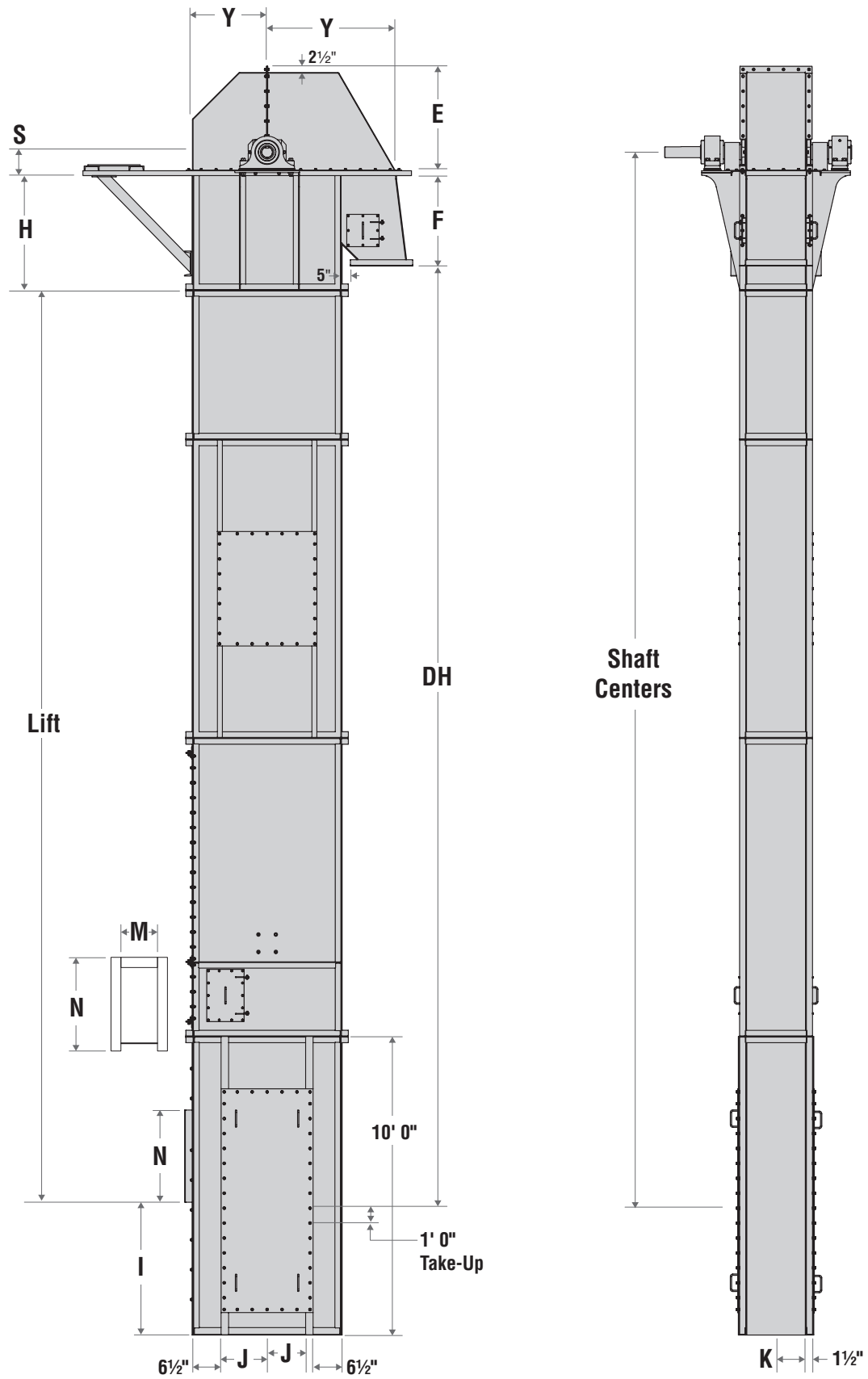


Part Number	Boot Shaft Diam.	External Casing Dimensions		Intermediate Casing Dimensions		Casing Thicknesses			Inlet Height Diam.
		Depth "C"	Width "A"	Depth "C"	Width "B"	Head	Boot	Int.	
B64-508 *	1.188	8	20	8	20*	12 ga.	12 ga.	12 ga.	30
B65-512A	1.438	9	27	9	8	12 ga.	12 ga.	12 ga.	32
B65-512B	1.438	9	27	9	8	12 ga.	12 ga.	12 ga.	32
B95-518A	1.438	12	34	12	9	12 ga.	10 ga.	12 ga.	39
B95-518B	1.438	12	34	12	9	12 ga.	10 ga.	12 ga.	39
B95-518C	1.438	12	34	12	9	12 ga.	10 ga.	12 ga.	39
B96-524	1.938	13	42	13	10	10 ga.	10 ga.	12 ga.	44
B96-530	1.938	15	48	15	10	10 ga.	3/16"	12 ga.	48
B106-530	1.938	15	48	15	10	10 ga.	3/16"	12 ga.	48
B136-530	1.938	18	48	18	10	10 ga.	3/16"	12 ga.	48
B127-536	2.438	18	56	18	11	10 ga.	3/16"	12 ga.	56
B147-536	2.438	21	56	21	11	10 ga.	3/16"	12 ga.	56
B167-536	2.438	21	56	21	11	10 ga.	3/16"	12 ga.	56
B168-542	2.438	23	68	23	14	3/16"	3/16"	12 ga.	72
B188-542	2.438	26	68	26	14	3/16"	3/16"	12 ga.	72
B2108-548	2.938	28	74	28	14	3/16"	1/4"	10 ga.	76
B2138-548	2.938	34	74	34	14	3/16"	1/4"	10 ga.	76
B2168-548	2.938	40	74	40	14	3/16"	1/4"	10 ga.	76
B2188-548	3.438	44	74	44	14	3/16"	1/4"	10 ga.	76
B3168-548	3.438	56	74	56	14	3/16"	1/4"	10 ga.	76
B4158-548	3.438	68	74	68	14	3/16"	1/4"	10 ga.	76
B4188-548	3.438	80	74	80	14	3/16"	1/4"	10 ga.	76

* Single Leg Intermediate Casing: 50' maximum height.

Head shaft diameter to be determined by customer's application and specifications.

Plastic buckets are available as Nylon, HDP or Urethane. Steel is available on special request.



Dimensions of Super Capacity & Mill Duty Elevator



Super Capacity Elevator with SC Buckets & Double Chain – SC Series

Elevator Number	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P
SC31-128	26	56	28	48	34.5	47	44.25	60	56	25	14.750	17	8	20	23
SC31-148	28	56	28	48	34.5	47	44.25	60	56	25	15.750	17	10	20	24
SC31-168	30	56	28	48	34.5	47	44.25	60	56	25	16.750	17	11	20	25.625
SC31-188	32	56	28	48	34.5	47	44.25	60	56	25	17.750	17	8	20	26.625
SC31-208	34	56	28	48	34.5	47	44.25	60	56	25	18.750	17	10	20	27.625
SC35-1612	33	68	32	52	41.5	52	50.25	60	60	28	18.25	17	12	22	27.125
SC35-2012	37	68	32	52	41.5	52	50.25	60	60	28	20.25	17	13	22	29.125
SC35-2412	41	68	32	52	41.5	52	50.25	60	60	28	22.25	17	16	22	31.875
SC35-3012	47	68	32	52	41.5	52	50.25	60	60	28	25.25	17	12	22	34.875
SC35-3612	53	68	32	52	41.5	52	50.25	60	60	28	28.25	17	13	22	37.875
SC35-4212	60	68	32	52	41.5	52	50.25	60	60	28	31.750	17	16	22	41.375
SC35-4812	66	68	32	52	41.5	52	50.25	60	60	28	34.750	17	20	22	44.375

All Dimensions in inches.
Dimensions not certified for construction.
R & S dimensions dependent on head shaft size and reducer selection.
P will vary with shaft dimension.

Mill Duty Elevator with AC Buckets & Chain – MDC Series

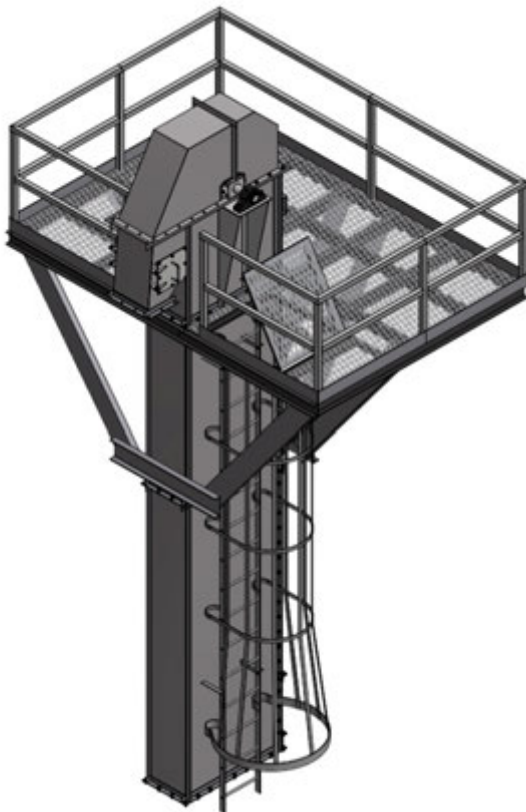
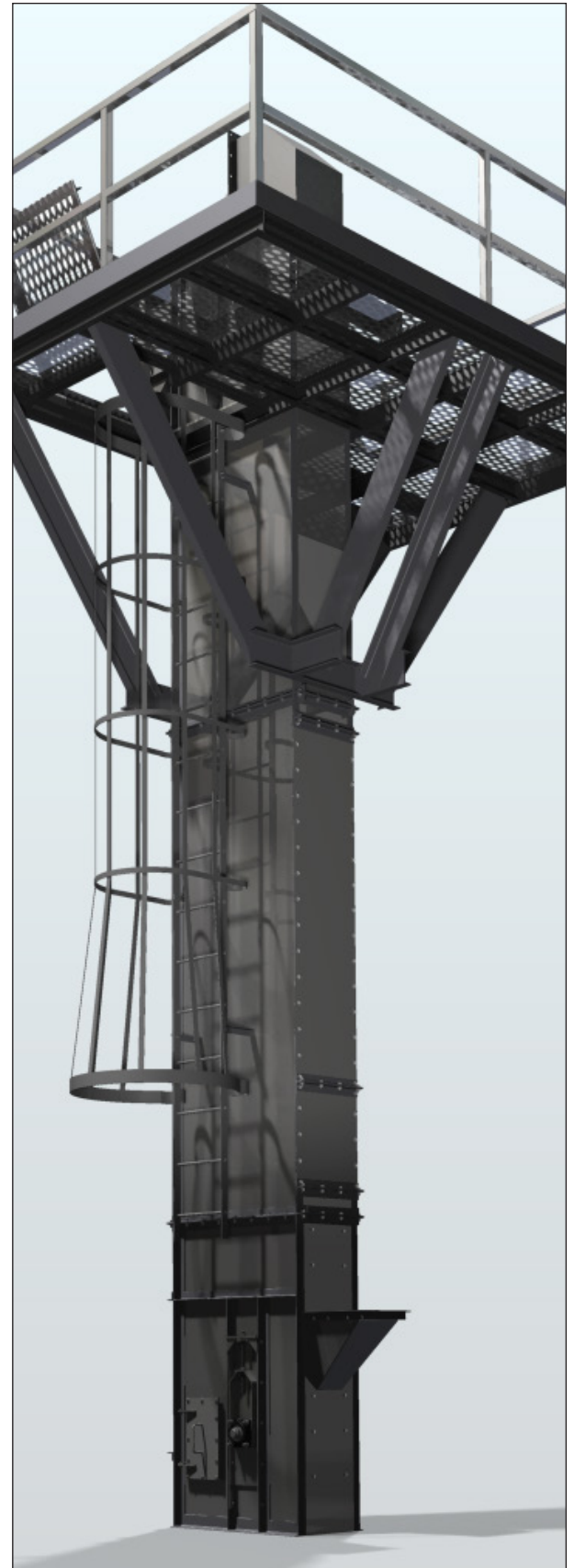
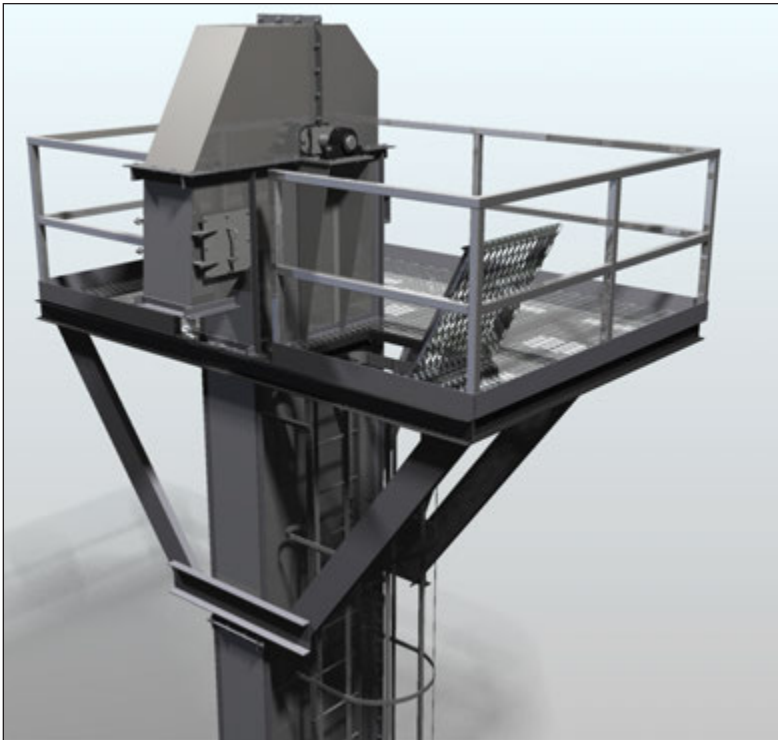
Elevator Number	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P
MDC26-128A	20	56	28	48	34.5	47	44.25	60	56	34.75	11.75	17	9	20	19
MDC26-148A	22	56	28	48	34.5	47	44.25	60	56	34.75	12.75	17	11	20	21
MDC26-128B	20	56	28	48	34.5	47	44.25	60	56	34.75	11.75	17	9	20	19
MDC26-148B	22	56	28	48	34.5	47	44.25	60	56	34.75	12.75	17	11	20	21
MDC12-168B	24	56	28	48	34.5	47	44.25	60	56	34.75	13.75	17	12	20	22
MDC26-1810A	26	64	32	52	41.5	52	48.25	60	60	38.75	14.75	17	14	20	23
MDC26-2010A	28	64	32	52	41.5	52	48.25	60	60	38.75	15.75	17	15	20	24
MDC26-2410A	32	64	32	52	41.5	52	48.25	60	60	38.75	17.75	17	18	20	26
MDC26-1810B	26	64	32	52	41.5	52	48.25	60	60	38.75	14.75	17	14	20	23
MDC26-2010B	28	64	32	52	41.5	52	48.25	60	60	38.75	15.75	17	15	20	24
MDC26-2410B	32	64	32	52	41.5	52	48.25	60	60	38.75	17.75	17	18	20	26

All Dimensions in inches.
Dimensions not certified for construction.
R & S dimensions dependent on head shaft size and reducer selection.
P will vary with shaft dimension.

Mill Duty Elevator with AC Buckets & Belt – MDB Series

Elevator Number	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P
MDB30-128A	22	58	29	49	34.5	47	45.25	60	56	35.75	12.75	17	9	20	20
MDB30-148A	24	58	29	49	34.5	47	45.25	60	56	35.75	13.75	17	11	20	22
MDB30-168A	26	58	29	49	34.5	47	45.25	60	56	35.75	14.75	17	12	20	23
MDB30-128B	22	58	29	49	34.5	47	45.25	60	56	35.75	12.75	17	9	20	20
MDB30-148B	24	58	29	49	34.5	47	45.25	60	56	35.75	13.75	17	11	20	22
MDB30-168B	26	58	29	49	34.5	47	45.25	60	56	35.75	14.75	17	12	20	23
MDB30-1810A	28	64	32	52	41.5	52	48.25	60	60	38.75	15.75	17	14	20	24
MD30-2010A	30	64	32	52	41.5	52	48.25	60	60	38.75	16.75	17	15	20	26
MDB30-2410A	34	64	32	52	41.5	52	48.25	60	60	38.75	18.75	17	18	20	23
MDB30-1810B	28	64	32	52	41.5	52	48.25	60	60	38.75	15.75	17	14	20	24
MDB30-2010B	30	64	32	52	41.5	52	48.25	60	60	38.75	16.75	17	15	20	26
MDB30-2410B	34	64	32	52	41.5	52	48.25	60	60	38.75	18.75	17	18	20	27
MDB30-1610DR	42	64	32	52	41.5	52	48.25	60	60	38.75	22.75	17	18	20	32
MDB30-1810DR	46	64	32	52	41.5	52	48.25	60	60	38.75	24.75	17	21	20	34
MDB30-2010DR	50	64	32	52	41.5	52	48.25	60	60	38.75	26.75	17	22	20	36
MDB30-2410DR	58	64	32	52	41.5	52	48.25	60	60	38.75	30.75	17	26	20	40

All Dimensions in inches.
Dimensions not certified for construction.
R & S dimensions dependent on head shaft size and reducer selection.
P will vary with shaft dimension.



Head Service Platforms Series 100 thru 800



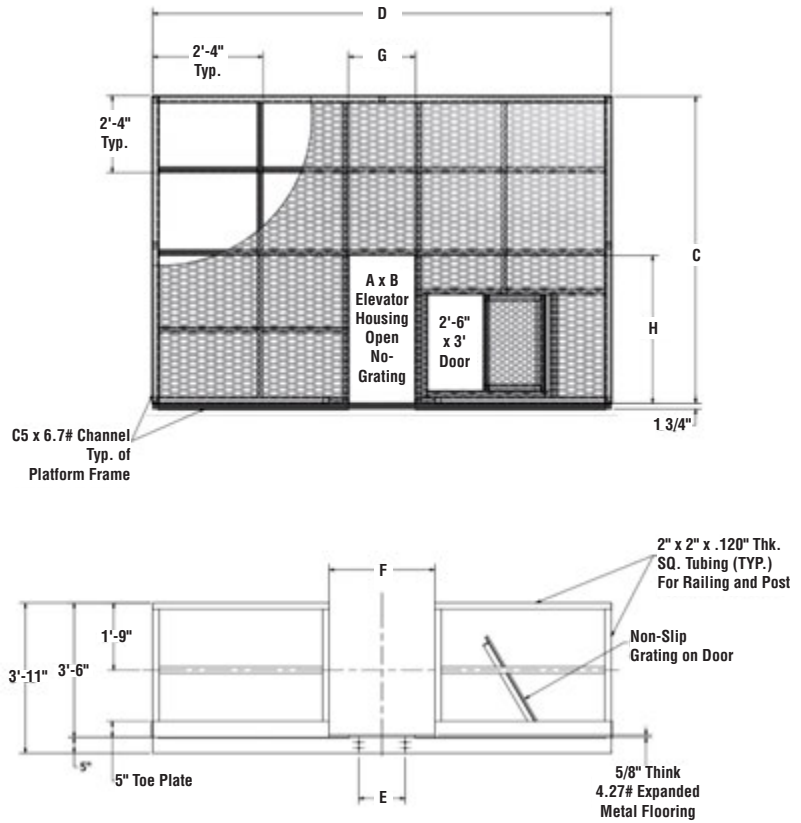
Head Platforms: Series 100 thru 800

Martin head section service platforms consist of:

- Heavy structural steel frames
- Square tube handrail
- Heavy non-skid grating
- Toe plates

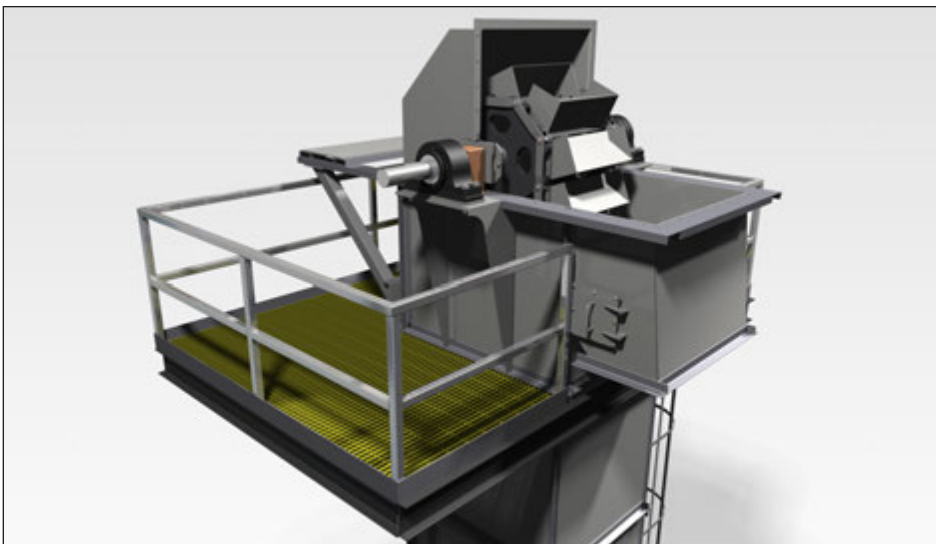
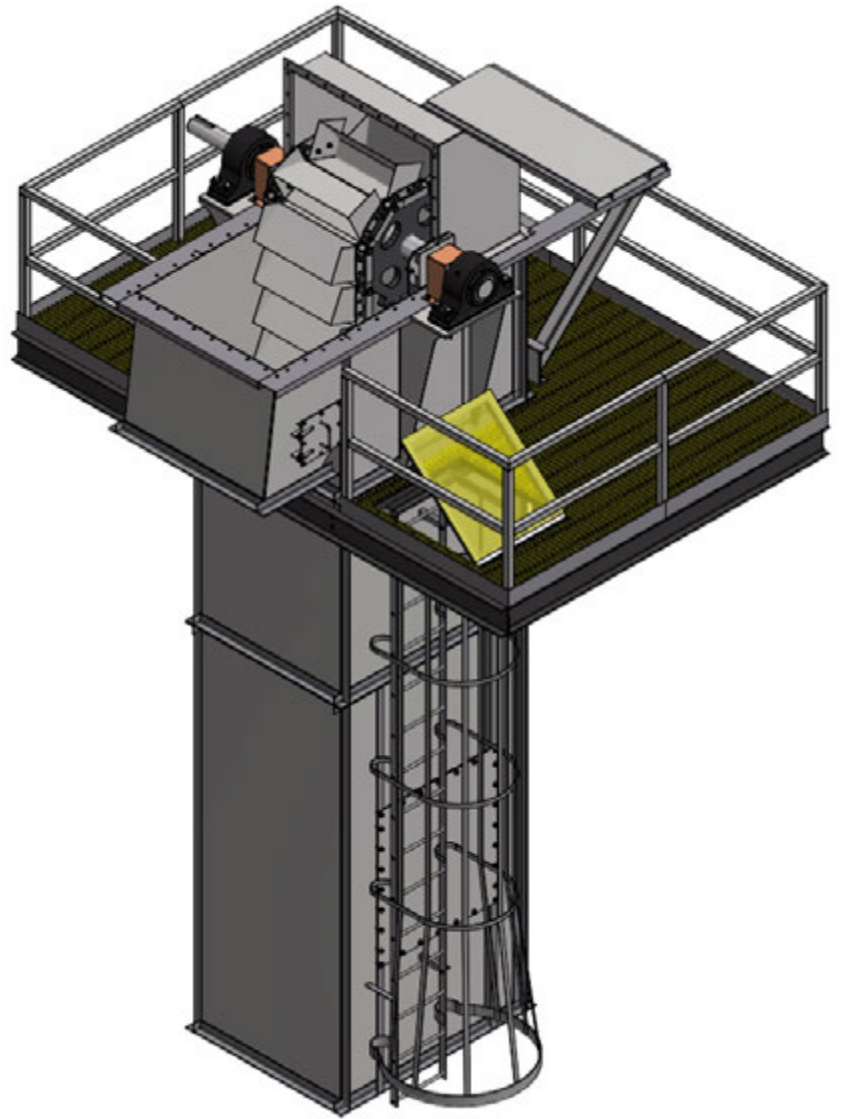
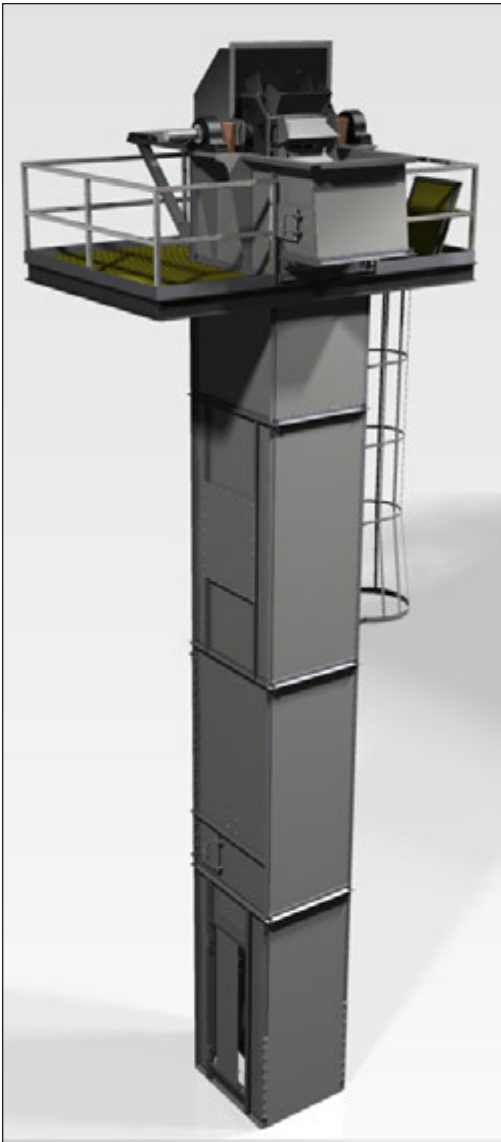
The platform is entirely supported by the elevator casing. Drives should be mounted on an integral support or be of a shaft mounted type. **Drives should not be mounted on the service platform.**

Martin Ladders / Safety Cages are designed to bolt to the elevator housing. They are constructed of heavy gauge steel and sized to provide easy access to platforms. Rest platforms are also available and required at 30' intervals.



Casing Size		C	D	E	F	G	H
A	B						
11.75"	39"	8' - 0"	11' - 9"	A + 2.5"	A + 12.75"	A + .5"	B + .5"
13.75"	39"						
13.75"	42"						
15.75"	48"	8' - 0"	11' - 9"				
17.75"	48"						
19.75"	48"						
22.75"	48"						
24.75"	48"						
17.75"	54"	10' - 0"	11' - 9"				
19.75"	54"						
22.75"	54"						
24.75"	54"						
26.75"	54"	10' - 0"	12' - 0"				
28.75"	48"						
30.75"	54"						

Dimensions shown in the above table are for standard platforms only. Platforms for elevators having large shafts, bearings, backstops or uselessly large drives will need to be designed and are made-to-order.
Note: Dimensions are subject to change and not for construction.
Casing Thickness: Casing thickness will vary with casing size and application.



Head Service Platforms Series SD, MDC & MDB



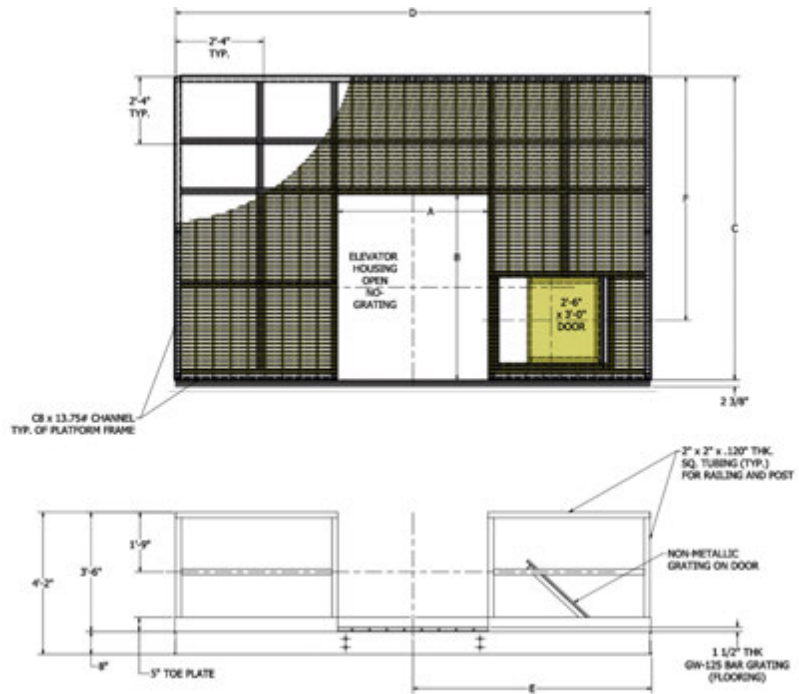
Head Platforms: Series SC, MDC & MDB

Martin head section service platforms consist of:

- Heavy structural steel frames
- Square tube handrail
- Steel floor grating
- Toe plates

The platform is entirely supported by the elevator casing. Drives should be mounted on an integral support or be of a shaft mounted type. **Drives should not be mounted on the service platform.**

Martin Ladders / Safety Cages are designed to bolt to the elevator housing. They are constructed of heavy gauge steel and sized to provide easy access to platforms. Rest platforms are also available and required at 30' intervals.



Casing Size		C	D	E	F
A	B				
20"	56	11' - 2"	11' - 0"	5' - 5.75"	8' - 7.875"
22"	56				
24"	56				
26"	56				
28"	56	11' - 2"	13' - 0"	6' - 5.75"	8' - 7.875"
30"	56				
32"	56				
34"	56				
22"	58	11' - 4"	13' - 0"	5' - 5.75"	8' - 8.875"
24"	58				
26"	58				
26"	64	13' - 2"	13' - 0"	6' - 5.75"	10' - 8.875"
28"	64				
30"	64				
32"	64				
34"	64				
33"	68	13' - 2"	13' - 0"	6' - 5.75"	10' - 6.875"
37"	68				
41"	68	13' - 2"	13' - 6"	6' - 8.75"	10' - 6.875"
47"	68	13' - 2"	14' - 0"	6' - 11.75"	10' - 6.875"
53"	68	13' - 2"	14' - 6"	7' - 2.75"	10' - 6.875"
37"	80	14' - 8"	13' - 0"	6' - 5.75"	11' - 1"

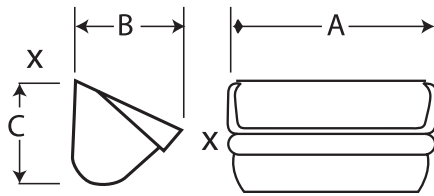
Dimensions shown in the above table are for standard platforms only. Platforms for elevators having large shafts, bearings, backstops or uselessly large drives will need to be designed and are made-to-order. **Note:** Dimensions are subject to change and not for construction.

Standard Casing Thickness:

- Intermediate casing with a B dimension of 80" are 3/16" thickness.
- Intermediate casing with a B dimension of 68" or less are 10 ga. thickness.
- Heavy casing are available on application.

Style AA

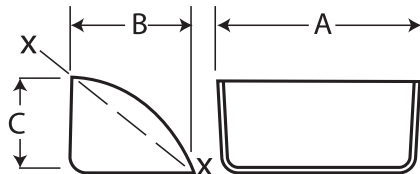
Ductile iron buckets for general use with most types of relatively free flowing material in centrifugal discharge elevators. Can be mounted on chain or belt and furnished in various plastic materials.



Bucket Size			Weight (lbs.)	Capacity cu. ft. X - X
A	B	C		
4	2.75	3	1	.01
6	4	4.25	2.7	.03
8	5	5.5	4.8	.07
10	6	6.25	7.7	.12
12	7	7.25	12	.19
14	7	7.25	13.9	.23
16	8	8.5	21.8	.34

Style C

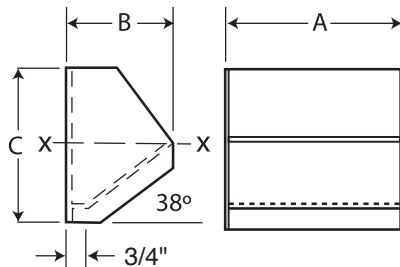
Fabricated buckets are used in centrifugal discharge elevators to handle materials that tend to pack or stick, such as sugar, clay, salt or wet grains.



Bucket Size			Weight (lbs.)	Capacity cu. ft. X - X
A	B	C		
6	4.5	4	2	.026
8	4.5	4	2.8	.035
10	5	4	4	.052
12	5	4	4.8	.061
14	7	5.5	8.5	.138
16	7	5.5	10.5	.158

Continuous

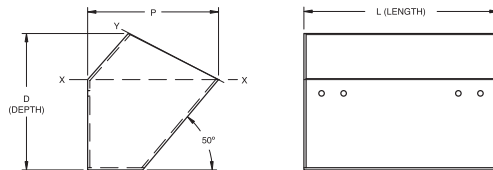
Medium front non-overlapping fabricated steel buckets are used in continuous discharge elevators for general service. Heavier gauges should be used when handling abrasive materials. Available fabricated from various materials. High front continuous buckets are available also. Plastic buckets available in most sizes.



Bucket Size			Weight (lbs.)				Capacity cu. ft. X - X
A	B	C	12 Ga.	10 Ga.	3/16"	1/4"	
8	5	7.75	5.1	6.3	8.7	—	.07
10	5	7.75	5.9	7.4	10.2	—	.09
10	7	11.625	9.3	11.9	16.5	—	.18
12	7	11.625	10.4	13.4	18.6	—	.218
14	7	11.625	11.6	14.9	20.7	—	.253
12	8	11.625	11.2	14.4	20.0	26.1	.275
14	8	11.625	12.4	16.0	22.2	29.1	.325
16	8	11.625	13.7	17.6	24.5	32	.375
18	8	11.625	14.9	19.2	26.7	35	.42

AC Welded Steel

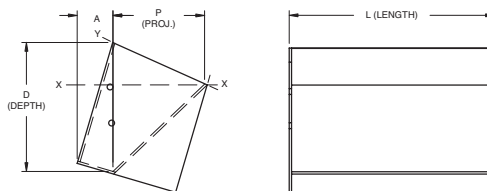
High front for greater capacity. Hooded back for closer spacing. Typical in cement, gypsum powder or other powdery materials. Venting available for clean filling and discharge. Mounted on chain or belt.



Bucket Size			Weight (lbs.)		Filled to Line X - X	Filled to Line X - Y
L Length	P Proj.	D Depth	3/16" Steel	1/4" Steel		
12	8	8.5	18.25	24.3	.231	.303
14	8	8.5	20.3	27	.271	.356
16	8	8.5	22.48	29.98	.311	.408
18	10	10.5	31.15	38.95	.488	.691
20	10	10.5	33.68	42.1	.542	.768
24	10	10.5	39.67	52.69	.651	.921
27	12	12.5	53.84	71.46	1.072	1.474

SC Welded Steel

Mounted between two strands of chain. Suitable for the heaviest materials. Designed for super capacity elevators. Typical in asphalt and concrete applications. Design offers increased capacity.

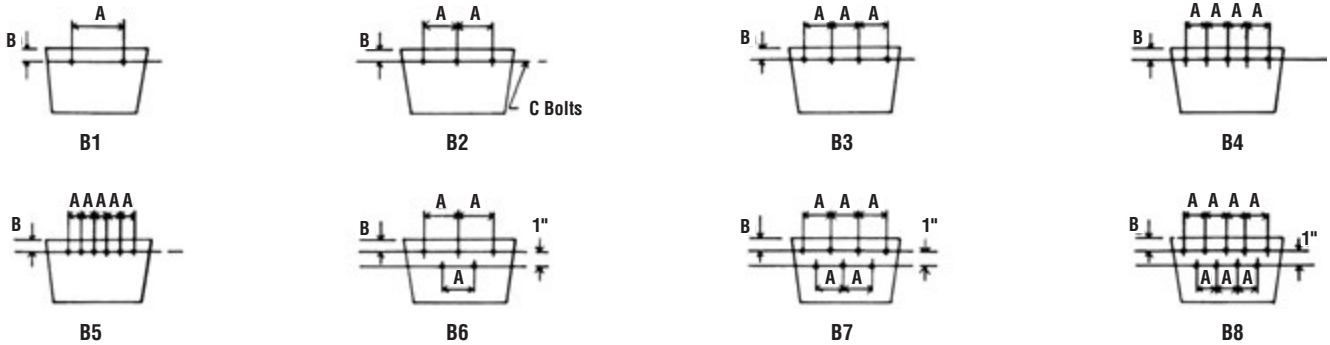


Bucket Size				Weight (lbs.)				Filled to Line X - X	Filled to Line X - Y
L	P	D	A	10 Ga. Steel	3/16" Steel	1/4" Steel	5/16" Steel		
12	8.75	11.625	4.563	22	29	39	49	.35	.54
14	8.75	11.625	4.563	23	31	41	51	.41	.63
16	8.75	11.625	4.563	25	34	45	56	.46	.72
16	12	17.625	6.5	43	58	76	95	1.11	1.55
18	8.75	11.625	4.563	27	36	48	60	.52	.81
20	8.75	11.625	4.563	29	39	52	65	.58	.9
20	12	17.625	6.5	49	67	88	110	1.4	1.94
24	12	17.625	6.5	55	75	104	130	1.68	2.33
30	12	17.625	6.5	65	88	117	146	2.11	2.91
36	12	17.625	6.5	73	99	132	165	2.53	3.49

NOTE: All dimensions are inside to inside of buckets.

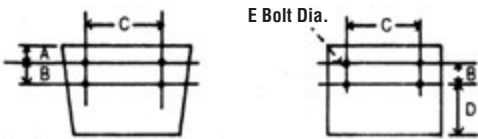
Bucket Punching (Belt)

CEMA Standard (Formerly P1 thru P9)



Bucket Length	Salem and Other Similar Light Buckets				M.I. & Steel Buckets Style A, AA, AA-RB, B, C, etc.				Continuous Buckets			
	Punch	A	B	Bolt Diameter	Punch	A	B	Bolt Diameter	Punch	A	B	Bolt Diameter
6	B-1	4 3/8	5/8	1/4	B-1	4 3/8	1	1/4	—	—	—	—
8	B-2	3 1/16	7/8	1/4 - 5/16	B-6	3	7/8	1/4 - 5/16	B-6	3	B = DEPTH - 1 2	1/4-5/16
10	B-2	4 1/8	7/8	1/4 - 5/16	B-6	3 1/2	7/8	1/4 - 5/16	B-6	3 1/2		1/4-5/16
12	B-3	3 3/8	7/8	1/4 - 5/16	B-6	4 1/2	7/8	1/4 - 5/16	B-6	4 1/2		1/4-5/16
14	B-4	3	7/8	1/4 - 5/16	B-7	4	7/8	5/16	B-7	4		5/16
16	B-5	2 7/8	7/8	1/4 - 5/16	B-7	4 1/2	7/8	5/16	B-7	4 1/2	5/16	5/16
18	—	—	—	—	—	—	—	—	B-7	5	5/16	5/16

Bucket Punching – Chain



Bucket Size	High-Speed Grain			
	Punch	A	B	C
7 x 5	B2	2 11/16	1 3/4	1/4
9 x 5	B2	3 5/8	1 3/4	1/4
9 x 6	B2	3 5/8	2	1/4
11 x 6	B3	3	2	1/4
12 x 6	B3	3 3/8	2	1/4
14 x 7	B4	3	2	5/16

Consult for AC and SC Bucket Punching.

Chain Number	Attachment Number	A	B	C	D	E
C-977	K-1	1	—	3	—	3/8
C-188	K-2	1	1 1/4	4 3/16	2 3/4	
C-102B	K-2	3/4	1 3/4	5 5/16	2	
C-110	K-2	7/8	1 3/4	5 5/16	3 3/8	
C-111	K-2	3/4	2 5/16	6 1/4	2 1/8	
SS-102B	K-2	3/4	1 3/4	5 5/16	2	
SS-110	K-2	7/8	1 3/4	5 5/16	3 3/8	



Engineering Class Sprockets & Traction Wheels

Engineering Class Steel Sprocket with C Hub

Rex Chain #	Jeffrey Chain #	Webster Chain #	# Teeth	Pitch Diameter	Chain Pitch	Hub Diameter	LTB	Max Bore	Face Width	Weight lbs.
		N102B	14	18	4	6.5	6	3.94	1.75	152
		N102B	16	20.5	4	6.5	6	3.94	1.75	190
S102B	6102R	HSB102B	10	13	4	6.5	6	3.94	1.75	92
S102B	6102R	HSB102B	14	18	4	6.5	6	3.94	1.75	152
S102B	6102R	HSB102B	16	20.5	4	6.5	6	3.94	1.75	190
S102B	6102R	HSB102B	19	24.25	4	6.5	6	3.94	1.75	260
S110	6110R	HSB110	10	19.1	6	7	6	4.44	1.75	171
			11	21.25	6	7	6	4.44	1.75	204
			13	25	6	7	6	4.44	1.75	271
			16	30.75	6	7	6	4.44	1.75	397
ES833	6138R	HSB833	9	17.5	6	8	6	5	2.25	187
			11	21.25	6	8	6	5	2.25	260
			13	25	6	8	6	5	2.25	346
			16	30.75	6	8	6	5	2.25	507

Engineering Cast Sprocket with Hub

Rex Chain #	Jeffrey Chain #	Webster Chain #	# Teeth	Pitch Diameter	Chain Pitch	Hub Diameter	LTB	Max Bore	Weight lbs.
		N102B	14	17.98	4	7	5	4.56	110
		N102B	16	20.5	4	7	5	4.56	135
S102B	6102R	HSB102B	10	13	4	7	5	4.56	68
S102B	6102R	HSB102B	14	18	4	7	5	4.56	110
S102B	6102R	HSB102B	16	20.5	4	7	5	4.56	135
S102B	6102R	HSB102B	19	24.25	4	7	5	4.56	170
S110	6110R	HSB110	10	19.1	6	7.50	5	5	88
			11	21.25	6	7.50	5	5	121
			13	25"	6	7.50	5	5	152
			16	30.75	6	8	6	5	181

See page F-25 of [77000 Catalog](#).

Segmented Traction Wheel Rims (Available Cast)

Rex Chain #	Jeffrey Chain #	Webster Chain #	Outside Diameter	Use Body #	Face Width	Weight
S102B	6102R	HSB102B	24	16	1.75	115
S110	6110R	HSB110	24	16	1.75	115
S111	6111M	HSB111	22	16	2.25	125
		HSB833	24	16	2.25	125
			26	20	2.25	140
ES856	6956PB	HSB956	22	16	2.75	115
ER857	6867R	HSB857A	26	20	2.75	155
			28	20	2.75	170
			30	20	2.75	185
ER859	6859R	HSB859B	24	16	3.50	165
			26	20	3.5	175
ER864	6864R	HSB864B	30	20	3.5	175
			36	20	3.5	175
ER984			42	35	3.5	235

Always specify chain number and manufacture when ordering traction wheels and sprockets
Fabricated steel rims are readily available for most chains.

Do not use traction wheels where ambient conditions are flammable

Bodies (Without Bolts) – Solid – Steel

Body #	Outside Diameter	Bore Range	Length Thru Bore
MUS16	18.5	1.94 to 8.44	3.25 to 8
MUS20	22.5	1.94 to 9.94	5 to 9.5
MUS25	27.5	1.94 to 8.44	5.5 to 11
MUS35	38.0	1.94 to 8.44	5.50 to 11

Bodies (Without Bolts) – Split – Steel

Body #	Outside Diameter	Bore Range	Length Thru Bore
MUS16S	18.5	1.94 to 8.44	3.25 to 8
MUS20S	22.5	1.94 to 9.94	5 to 9.5
MUS25S	27.5	1.94 to 8.44	5.5 to 11
MUS35S	38.0	1.94 to 8.44	5.50 to 11

Bodies (Without Bolts) – Solid – Cast

Body #	Outside Diameter	Bore Range	Length Thru Bore
MUS16C	18.5	1.94 to 6.94	3.25 to 8
MUS20C	22.5	2.44 to 6.94	5 to 9.5

Bodies (Without Bolts) – Split – Cast

Body #	Outside Diameter	Bore Range	Length Thru Bore
MUS16CS	18.5	1.94 to 4.94	6.5 to 8.25
MUS20CS	22.5	1.94 to 7.44	4.375 to 11.12

Engineering Class Sprockets and Traction Wheels



Engineering Class Steel Sprockets

Steel sprockets are commonly used on *Martin* Bucket Elevators and our High-Speed Grain Elevators. These sprockets are readily available in solid, split, segmented types.

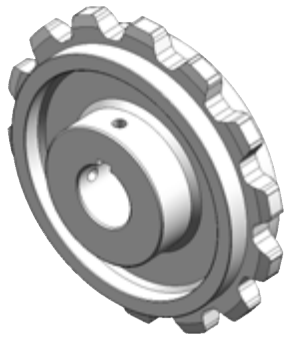
Traction Wheels

Traction wheels are offered in solid or segmental construction. *Martin* offers traction wheels of both steel or cast materials. They are offered as standard on several styles of bucket elevators to with stand abrasive materials. Traction wheels should not be used on the head of Super Capacity bucket elevator but work well in the boot. Where traction wheels are not useable a excellent alternative may be the Chainsaver Rim Sprocket offering many of the advantages of the Traction Wheel with the more positive engagement of a sprocket and increased chain life of a traction wheel. Please consult *Martin* to assure the proper application of traction wheels in a Bucket Elevator.

Engineering Class Cast Sprockets

Available as Non-Split Sprockets in various cast materials with or without hardened teeth

- **Split Sprockets** are made in one piece, machined, then split into two halves. The split design allows for installation and removal without the removing the shaft and bearings..
- **Segment Cast Sprockets** are offered with either solid or split hub bodies.
- **Segmental sprockets** greatly reduce the labor costs as well as the downtime associated with replacing worn sprockets. Worn segments can be replaced by simply replacing the segments, eliminating the removal of shaft, bearings and realigning sprockets.
- **Hunting Tooth** Sprockets are designed so each tooth will only contact the same barrel every second revolution. This is accomplished by make the sprocket $\frac{1}{2}$ pitch and adding one tooth. Basically the life of the sprocket is doubled.



Chainsaver Sprocket



Sprocket Segments



Traction Wheel



Hunting Tooth Sprockets

Drum Pulley

Steel rims, end disc and hubs are welded together by submerged arc welding resulting in a strong, balanced and concentric long lasting pulley. Available with or without a crown. Available in various hub and bushing types.

Single Disc Pulley

The heavy duty construction of the *Martin* SD Pulley assures a long lasting pulley designed for use in your High-Speed Grain Leg. All components are welded using the submerged arc process to assure a long lasting bond and concentricity of the pulley.

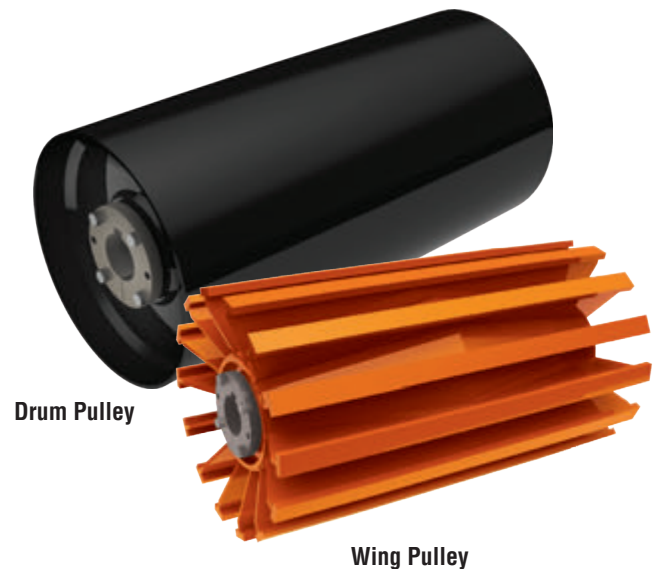
Available in face width from 8" thru 16".

Wing Pulley

Martin's Heavy Duty Wing Pulley is ideal for cleaning the bucket elevators belt in the boot. The intermittent belt contact made by the wings help dislodge material as well as increases traction and reduces abrasion to the belt.

MTO Shafts Available, Call *Martin*

Need a special shaft in a hurry *Martin* has the capability to machine shafts weighing up to 18000 lb and measuring 20" dia. X 18" long on a CNC lathe. All keyways are cut on the lathe without repositioning the shaft.



Take-Up Frames

Martin Tube Type

- Allows the use of a ball bearing or roller bearing pillow blocks
- The rod force is at the centerline of the bearing
- Available with take-up travel from 3" to 36"
- MTO versions can incorporate a spring to add take-up tension

Martin Wide Slot

- Compact design for ideal for smaller elevators
- Rod force is at the center line of the bearing
- MTO versions can incorporate a spring to add take-up tension
- Available with 6" to 30" of travel

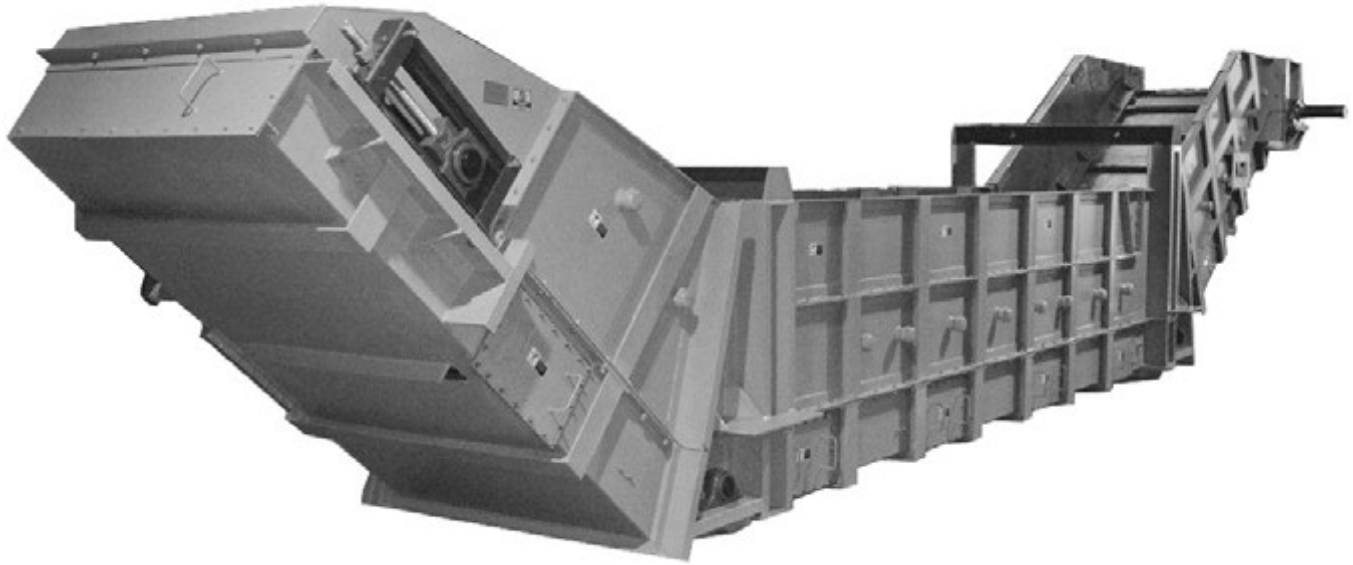
Martin Internal Gravity

- Standard on most Mill Duty Elevator and Super Capacity Elevators using chain
- Heavy channel frame with easy to add steel weight plates
- Heavy duty friction bearing
- Internal lift channel.

Martin External Gravity

- *Martin* External Gravity take-up is offered as an option to the internal take-up
- Features a heavy channel frame that allows weight adjustments to be made from the exterior of the elevator
- Allows belt training adjustment





DRAG CONVEYORS	PAGE
DRAG CONVEYORS	H-153
FLAT BOTTOM DRAG CONVEYOR	H-154 – H-155
SUPER DUTY DRAG CONVEYOR	H-156 – H-157
ENGINEERING CLASS SPROCKETS	H-158
MILL DUTY DRAG CONVEYOR	H-159 – H-160
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DRAG CONVEYOR MAINTENANCE TIPS	H-165 – H-166

Martin has a long history of designing and manufacturing drag conveyors dating back more than 60 years to the Fort Worth Steel's "Incline Drag Flight Elevator".

Currently we offer a broad line of standard and Made-to-Order drag conveyors to meet our customer's conveying requirements, be it conveying grains or heavy abrasive materials. We have handled these materials in the horizontal, inclined and vertical planes. *Martin* is ready and willing to help design and manufacture the drag you need for your special application.

Martin offers Flat Bottom and Round Bottom drags for conveying relatively free flowing non-abrasive materials in a horizontal or slight incline. We developed our Super Duty Drags to convey a wide range of materials longer distances and at higher capacities; we have Super Duty Drags operating at lengths of over 660 feet.

Our Mill Duty Drag Conveyors were developed to handle abrasive and potentially hot materials by combining the features of our Flat Bottom and Super Duty Drags with a very heavy duty construction. We have designed and manufactured Submerged Drags to handle ash from boilers and industrial incinerators.

Our L Path Line of drags was designed to handle materials at inclines greater than 20 degrees up to and including vertical. The L-Path drag has also been redesigned using abrasive resistant steel liners and flights as well as a forged type chain to convey more abrasive products.

To assure the quality of our Drags, *Martin* has invested in the latest cutting, forming and welding equipment, such as laser cutting equipment, high definition plasmas, CNC angle punches, CNC machining equipment as well as robotics. We also manufacture our own sprockets, our own take-ups and line of inspection doors.

To assure the best service and availability in the industry, *Martin* is able to manufacture our drag conveyors in nine locations throughout North America.

We are always driven to provide the highest quality service, products and value to our customer without compromising safety.

Easy Application Chart

Drag Type	Materials	Capacity Range	Length Range	Incline Range	Chain Type	Flight Type	Speeds Range
<i>Martin</i> Flat Bottom (MFB™)	Non Abrasive	2800 CFH to 32000 CFH	20' to 200'	0 to 10 degrees	Welded Steel	Non-metallic	100 to 200 FPM
<i>Martin</i> Super Duty Flat Bottom (MSC™)	Non Abrasive	12000 CFH to 64000 CFH	150' to 675'	0 to 10 degrees	Welded Steel	Non-metallic	75 to 200 FPM
<i>Martin</i> Mill Duty Flat Bottom (MMD™)	Abrasive	1422 CFH to 14063 CFH	20' to 250'	0 to 10 degrees	142, WD & WS	Metallic	25 to 100 FPM
<i>Martin</i> L-Path Flat Bottom (MLP™)	Non Abrasive	600 CFH to 15000 CFH	20' to 125'	20 to 90 degrees	WS & 142	Non-metallic	50 to 100 FPM
<i>Martin</i> Slim Profile Flat Bottom (MSP™)	Non Abrasive	440 CFH to 3000 CFH	10' to 50'	0 to 45 degrees	Welded Steel	Non-metallic	25 to 100 FPM
<i>Martin</i> Round Bottom (MRB™)	Non Abrasive	2000 CFH to 30000 CFH	20' to 200'	0 to 20 degrees	Welded Steel	Non-metallic	100 to 200 FPM

In all the above type drags the material should be relatively free flowing and not sticky. Particle shape and particle size is also critical to a drags proper operation.

• The above recommendations are general in nature and specific to applications should be directed to *Martin*.

Flat Bottom Drag Conveyor

Martin



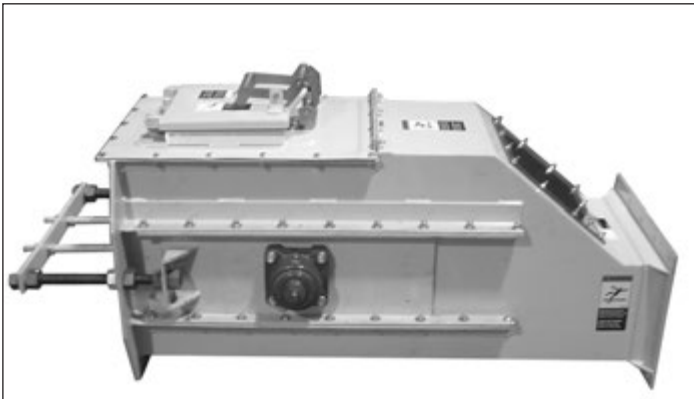
2416 MFB Flat Bottom Drag

Standard Features

- Bolted Replaceable Bottom
- Bolted Flanged Cover
- Jig Welded Flight Attachments
- UHMW Flights
- Heat Treated Sprockets
- Rail Return System
- Flow Thru Inlet
- Heavy-Duty Backing Plate



2412 MFB Intermediate



Self-Cleaning and Adjustable Tail Section

Popular Options

- Intermediate Discharges
(Reduce Bed Depth to assure proper discharge.)
- Liners of Metallic and Non Metallic Materials
- Abrasive Resistant Steel Bottom Plates
- Feed Control Inlets
- Split Sprockets
- Stainless Steel Construction
- Self-Cleaning & Adjustable Tail Sections

Capacity Chart for Standard Sizes

Series	1 FPM		100 FPM		125 FPM		150 FPM		175 FPM		200 FPM	
	CFH	CFH	RPM	CFH	RPM	CFH	RPM	CFH	RPM	CFH	RPM	
2409	54.38	5,438	27	6,798	34	8,157	40	9,517	47	10,876	54	
2412	68.25	6,825	27	8,531	34	10,238	40	11,944	47	13,650	54	
2414	78.75	7,875	27	9,844	34	11,813	40	13,781	47	15,750	54	
2416	89.25	8,925	27	11,156	34	13,388	40	15,619	47	17,850	54	
2418	96.19	9,619	27	12,024	34	14,429	40	16,833	47	19,238	54	
3016	111.56	11,156	23	13,945	29	16,734	34	19,523	40	22,312	46	
3018	121.13	12,113	23	15,141	29	18,170	34	21,198	40	24,226	46	
3020	133.88	13,388	23	16,735	29	20,082	34	23,429	40	26,776	46	
3024	159.38	15,938	23	19,923	29	23,907	34	27,892	40	31,876	46	

1. Capacities based on 90% loading with a free-flowing material.
 2. Selection of conveyors should be based upon the material's characteristic.
 3. Capacities and speed will vary for other than free flowing materials.
- Please Consult [Martin](#) if you have questions concerning your application.

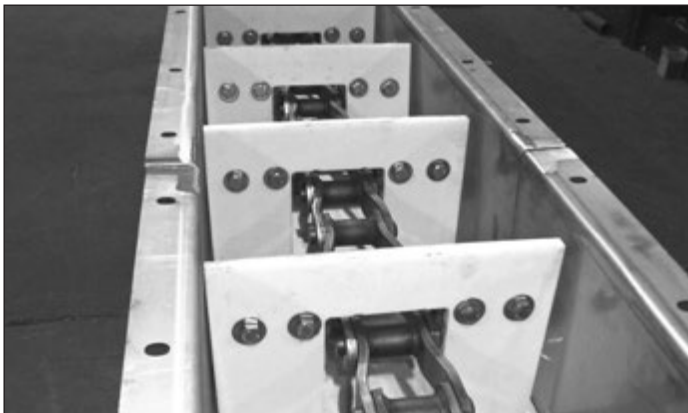
Inlets



Flow Thru Inlet

Best suited for free flowing non- abrasive materials with a controlled feed rate to the drag.

Chains



Welded Steel

Welded Steel chain is our standard and can be quoted and supplied from a chain manufacturer of your choice.



142 Forged

Where abrasion or heat are an issue a 142 chains can be supplied. (Other chains are available.)



Bypass Inlet

Directs the flow of material to the carry strand of chain and flights.



Feed Control Inlet

Allows the control of feed rates at the drag, limited to use with the Flat, Super Duty and Mill Duty Drags.

Super Duty Drag Conveyor

Martin



MSC Super Capacity Drag Head with Slack Side Tension Idler Sprocket

Standard Features

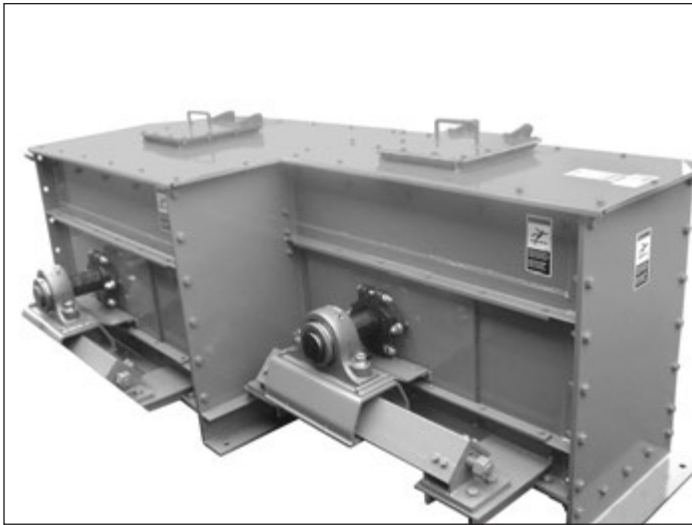
- Bolted Replaceable Bottom
- Bolted Flanged Cover
- Jig Welded Flight Attachments
- Welded Steel Chain
- Heavy Duty Steel Backing Plates
- UHMW Flights
- Heat Treated Split Sprockets
- Rail Return System with AR steel Wear Strips
- Abrasion Resistant Steel replaceable side liners
- Flow Thru Inlet
- Special HD Head Section with *Martin* Slack Side Tension Idler Sprocket Assembly
- Slack Side Tension transition cover
- Heavy Duty Tails Section with MHD Take-ups and Pillow Block Bearings



MMD Drag with two By-Pass Inlets



MLP Tail Section



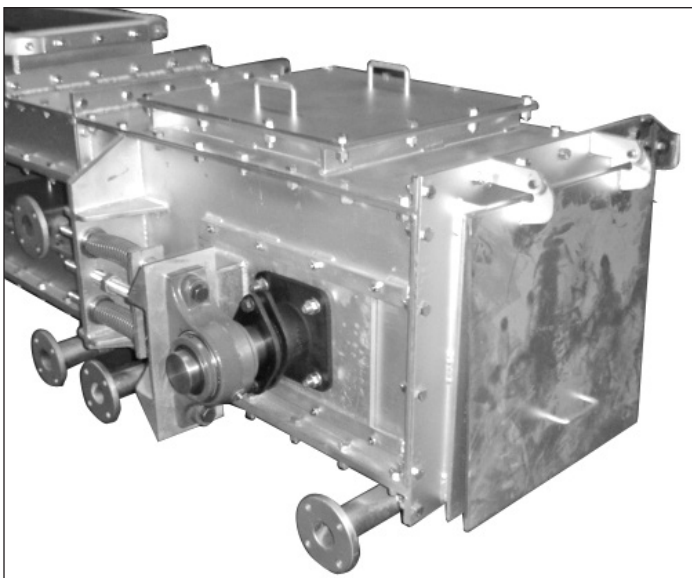
Double Chain Tail for MSD Drag

Popular Options

- Special Chains
- Double Chain Design with an Individual Chain Take-up Tail Section
- Spring Loaded Take-up
- Hydraulic Take-up
- Stainless Steel Construction
- Liners of various materials
- Feed Control Inlet

Super Duty Capacity

Series	FPM 1	100 FPM	125 FPM	150 FPM	200 FPM	
	CFH	CFH	CFH	CFH	CFH	
MSD 3024	168.75	16875	21094	25312	33750	
MSD 3030	209.25	20925	26156	31388	41850	
MSD 3036D	249.75	24975	31219	37462	49950	Double Chain
MSD 3040D	276.75	27675	34594	41512	55350	Double Chain
MSD 3048D	330.75	33075	41344	49612	66150	Double Chain



Special Tail Section with Spring Take-up and Relief Door

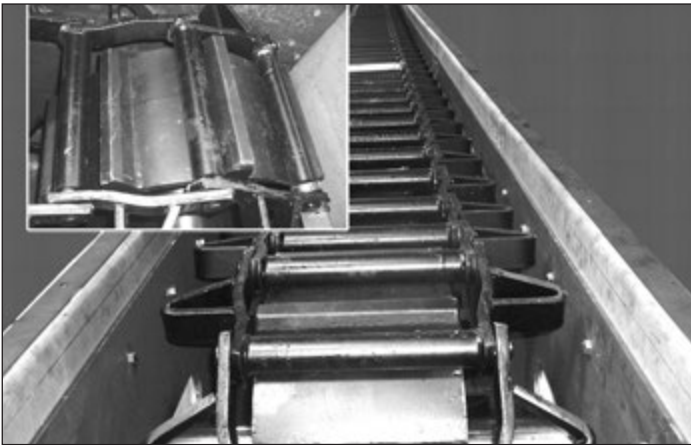


Martin Submerged Drag being loaded



Welded Steel Chain and Sprocket

All welded steel sprockets are heat treated and most can be offered split or with segmented rim for easier replacement. All sprockets can be supplied with a shear pin hub where needed.



Wide Face Drag Sprockets

Wide Face Drag Sprockets are available for Chain Numbers 102, 104, 120, 480, etc.

Wide Face Drag Sprockets are available in "QD", or "Split Taper" style — Induction Heat Treat Available.



Stainless Steel Sprocket



Wide Face Sprocket
with Forged Teeth



Cast Steel Sprocket



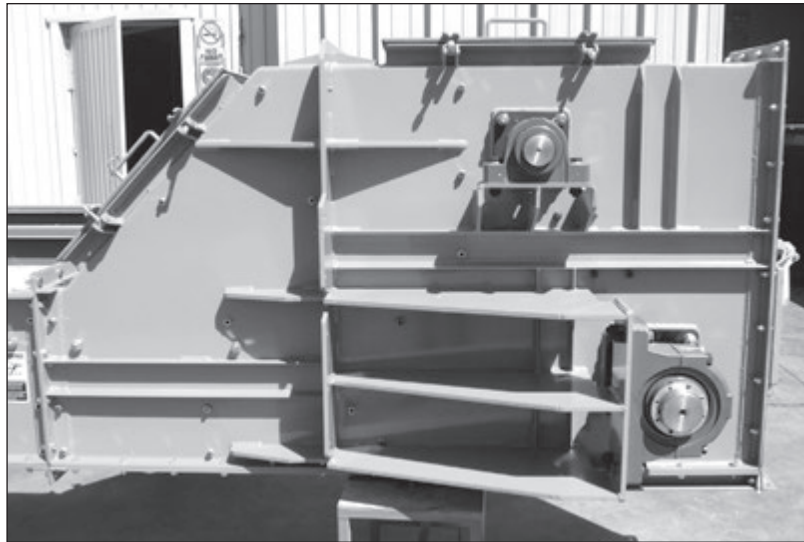
Segmented Rim Cast
Sprockets



Cast Wide Face
Traction Wheel

Cast Iron & Steel Sprockets

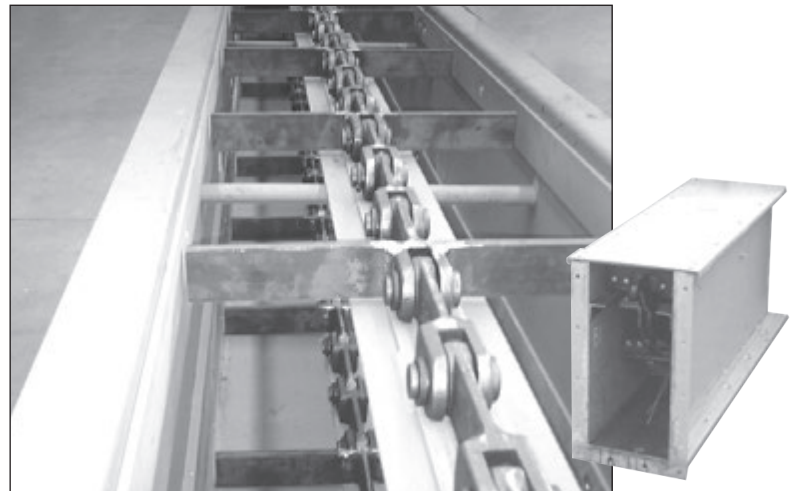
- Cast Split Sprockets
- Hunting Tooth Sprockets
- Rivetless Chain Sprocket
- Drag Chain Sprockets (Plain & Flanged)
- Traction Wheels (Plain & Flanged)
- Plate Body Sprockets
- Chain Saver Rim Sprockets
- Adjustable Hub Sprockets
- Chill Rim Sprockets



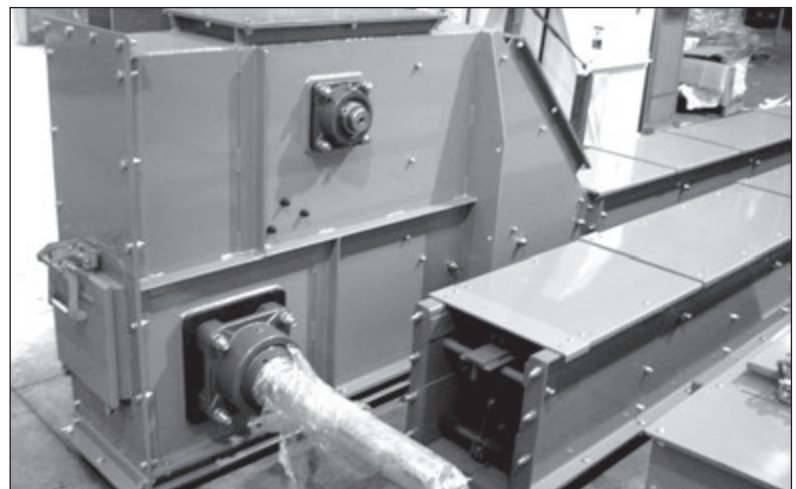
MMD Mill Duty Head with *Martin* Slack Side Tension Idler Sprocket

Standard Features

- Bolted Replaceable Bottom
- Bolted Heavy Flanged Cover
- 142 Forged Chain
- Heavy Duty Steel Backing Plates
- Non-metallic or Abrasion Resistant steel Flights
- Heat Treated Split Sprockets
- Center Support Rail Return System with AR steel Wear Strips
- Replaceable side liners of various materials
- Flow Thru Inlet
- Special Head Section with Pillow Block Bearings
- Heavy Duty Tails Section with MHD Take-ups and Pillow Block Bearings



Center Support Rail Return System with AR steel Wear Strips for MMD Drag



MMD Mill Duty Head and Intermediate

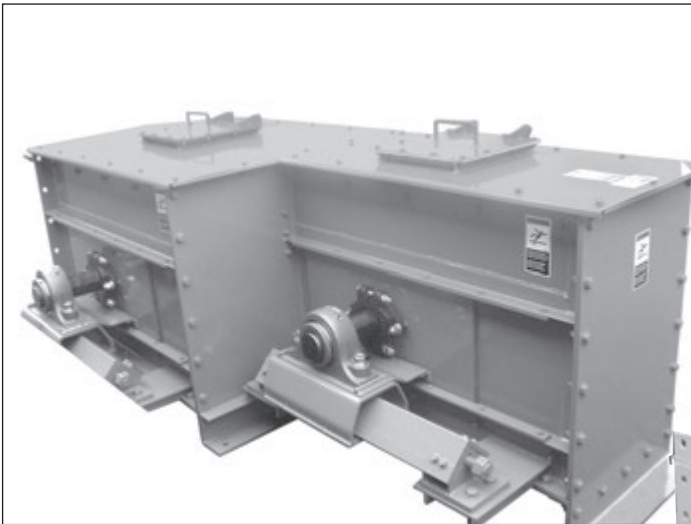
Mill Duty Drag Conveyor

Mill Duty Drag

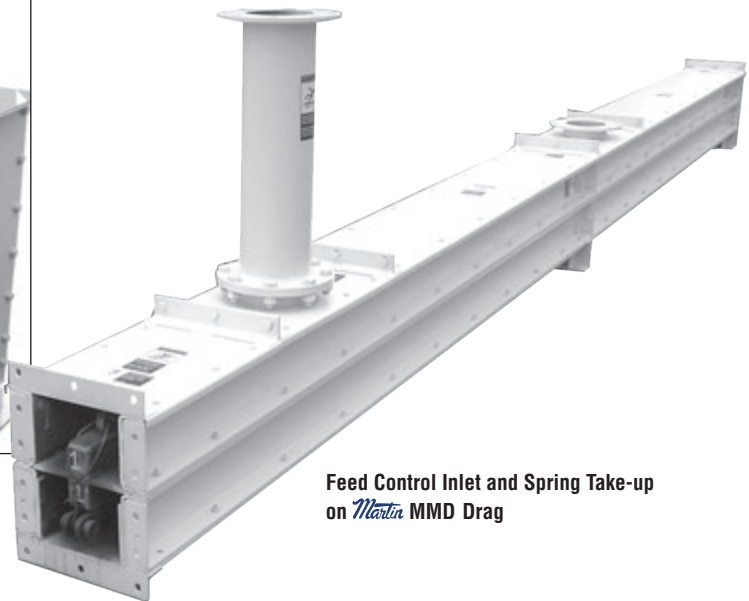
Series	FPM	25 FPM	50 FPM	75 FPM	100 FPM
	CFH	CFH	CFH	CFH	CFH
MD2412	57	1422	2844	4266	5688
MD2416	74	1859	3719	5578	7438
MD3020	118	2953	5906	8859	11813
MD3024	141	3516	7031	10547	14063

Popular Options

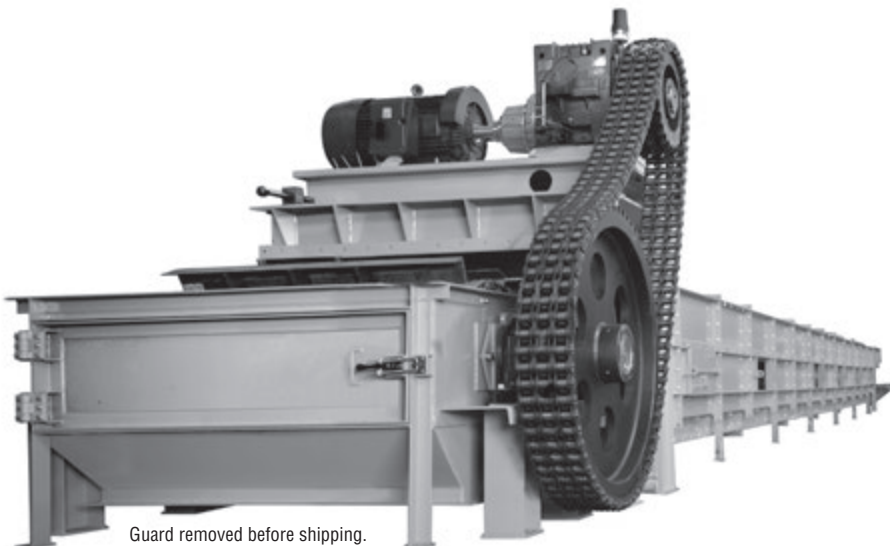
- Special Chains like WDH Welded Steel
- Special Heavy Duty Head Section with *Martin* Slack Side Tension Idler Sprocket Assembly
- Spring Loaded Take-up
- Hydraulic Take-up
- Stainless Steel Construction
- Liners of various materials both metallic and non-metallic
- Feed Control Inlet



Feed Control Inlet and Spring Take-up on *Martin* MMD Drag



Feed Control Inlet and Spring Take-up on *Martin* MMD Drag

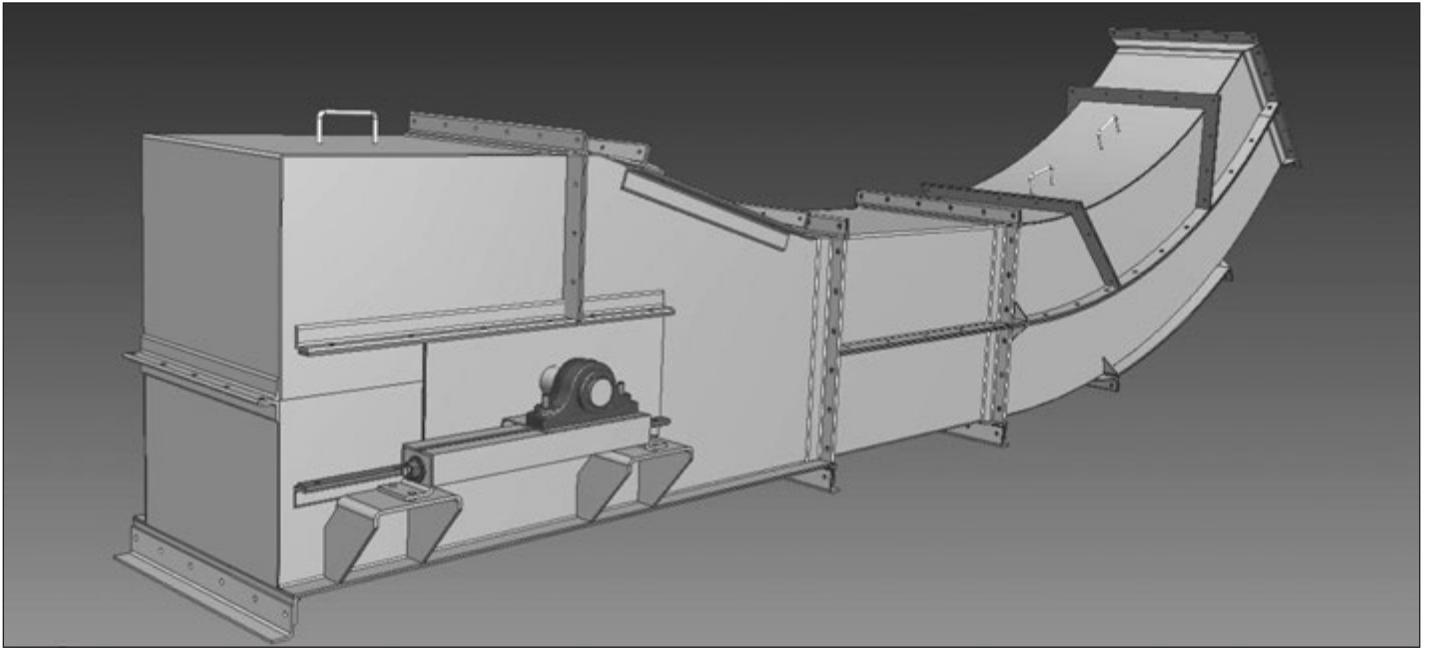


Guard removed before shipping.

Large Drag Conveyor



MMD Interior with 142 Chain

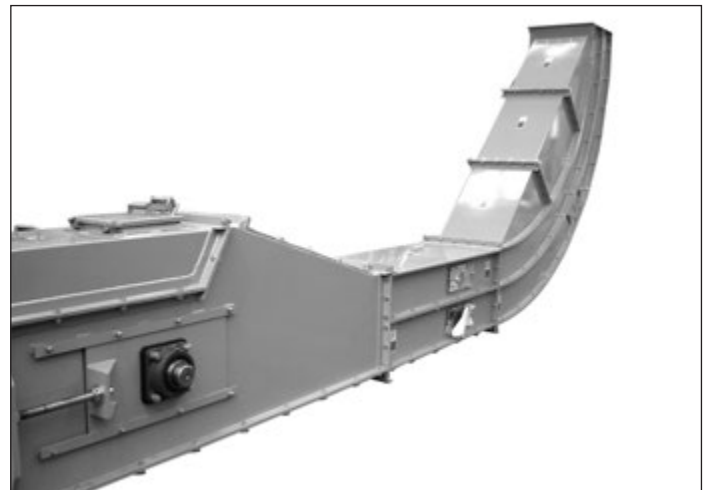


Standard Features

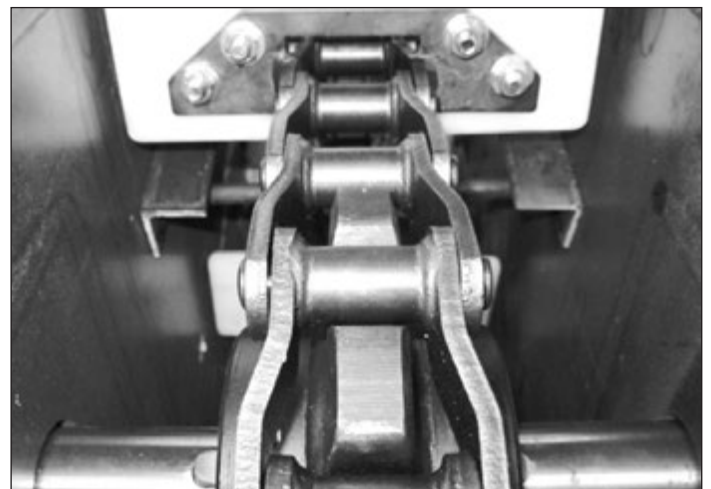
- Seven piece intermediate housing
- Welded steel chain
- Jig welded attachments
- UHMW flights
- *Martin* HT and Split Sprockets
- Pillow Block Bearings
- *Martin* MHD take-ups

Popular Options

- 142 Forged Chain
- Mill Duty type construction
- Abrasive Resistant steel divider plates
- Special flight materials metallic and non-metallic
- Slack chain accommodating lower bend (45 to 90 degree)
- Upper Bend Section



MMD Mill Duty Head and Intermediate



MMD Mill Duty Head and Intermediate

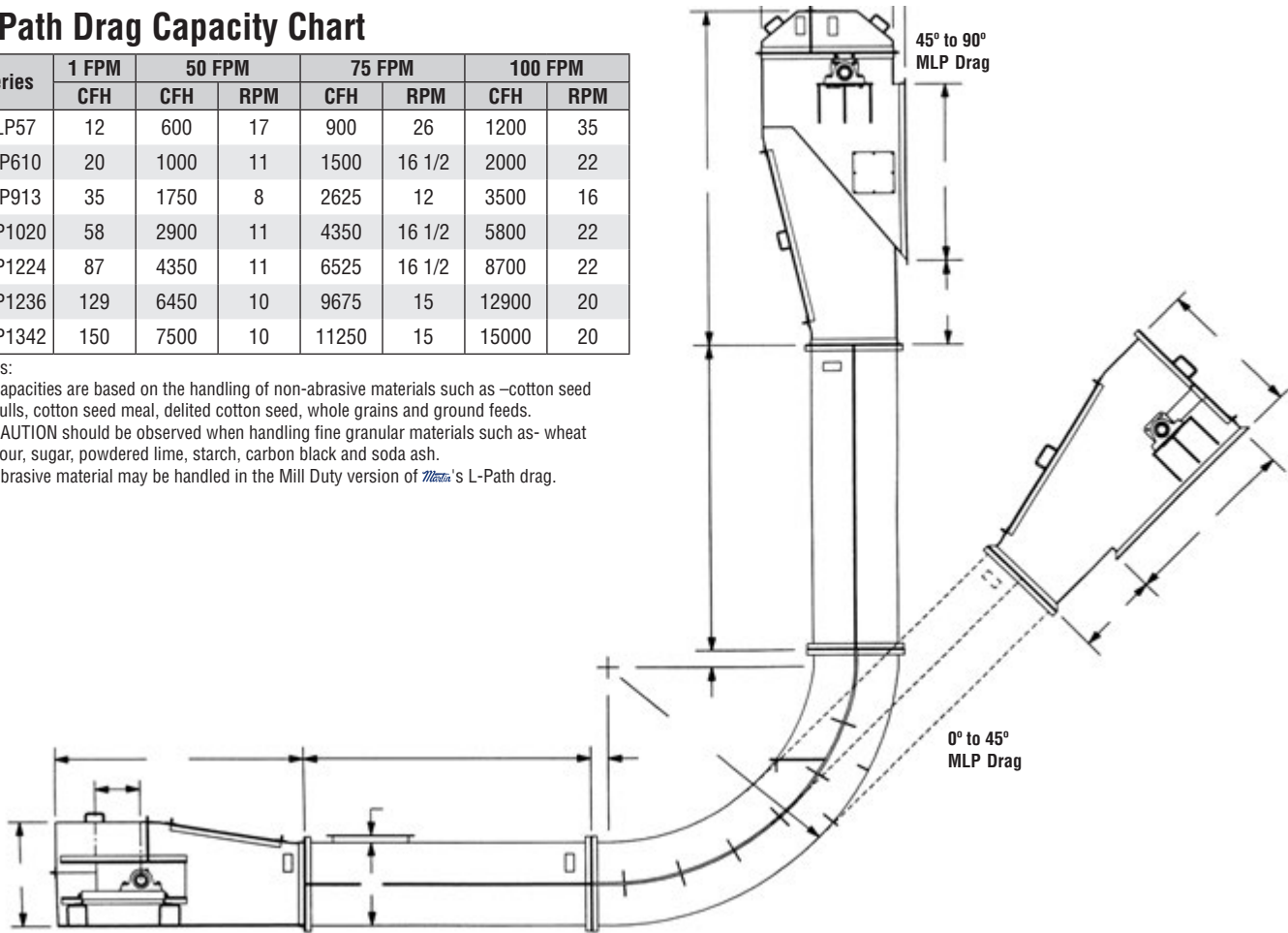
L-Path Drag Conveyor

L-Path Drag Capacity Chart

Series	1 FPM		50 FPM		75 FPM		100 FPM	
	CFH	CFH	RPM	CFH	RPM	CFH	RPM	
MLP57	12	600	17	900	26	1200	35	
MLP610	20	1000	11	1500	16 1/2	2000	22	
MLP913	35	1750	8	2625	12	3500	16	
MLP1020	58	2900	11	4350	16 1/2	5800	22	
MLP1224	87	4350	11	6525	16 1/2	8700	22	
MLP1236	129	6450	10	9675	15	12900	20	
MLP1342	150	7500	10	11250	15	15000	20	

Notes:

1. Capacities are based on the handling of non-abrasive materials such as -cotton seed hulls, cotton seed meal, delited cotton seed, whole grains and ground feeds.
2. CAUTION should be observed when handling fine granular materials such as- wheat flour, sugar, powdered lime, starch, carbon black and soda ash.
3. Abrasive material may be handled in the Mill Duty version of *Martin's* L-Path drag.

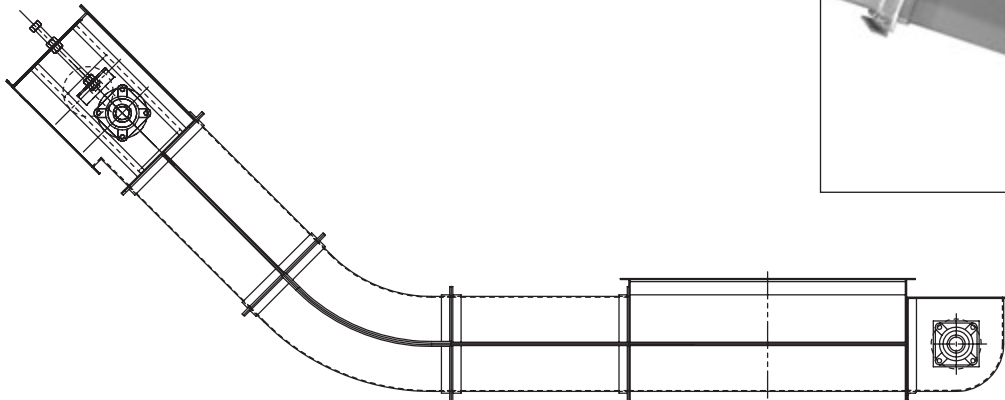


MLP Drag ready to ship



MMD Special L-Path Drag with Slack Accommodating Bend

Slim Profile Drag Options



Popular Options

- AR Steel Divider Plate
- Tail Take-up
- Longer than Standard Inlet
- Optional Non-Metallic Flights such as TIVAR® or Nylon
- Stainless steel construction

Standard Features

- Self-Cleaning Tail Section
- Slim Profile Head with *Martin* CWS Wide Slot Take-up
- WH78 welded steel chain
- Jig welded attachments
- UHMW Flights with steel backing plates
- Flow Thru Inlet
- *Martin* Heat Treated Sprocket

Slim Profile Drag

Series	1 RPM	25 RPM	50 RPM	75 RPM	100 RPM
MSP 609	17.5	437.5	875	1312.5	1750
MSP 612	22.75	568.75	1137.5	1706.25	2275
MSP 616	29.75	743.75	1487.5	2231.25	2975
MLP1020	58	2900	11	4350	16 1/2
MLP1224	87	4350	11	6525	16 1/2
MLP1236	129	6450	10	9675	15
MLP1342	150	7500	10	11250	15

Notes:

1. Capacities are based on the handling of non-abrasive materials such as cotton seed hulls, cotton seed meal, delited cotton seed, whole grains and ground feeds.
2. CAUTION should be observed when handling fine granular materials such as wheat flour, sugar, powdered lime, starch, carbon black and soda ash.
3. Abrasive material may be handled in our Mill Duty version of our L-Path drag.



Slim Profile Drag being shipped



Special Mill Duty Drag Chain - Flight and Idler

Round Bottom Drag Conveyor



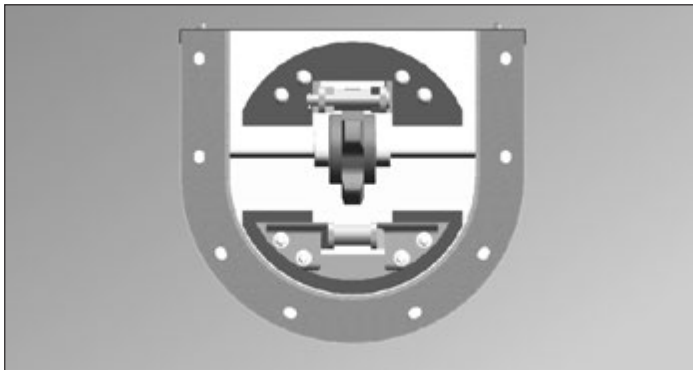
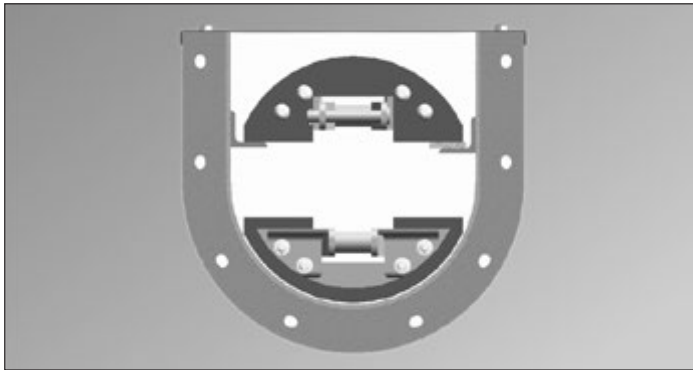
Capacity FPM / RPM

Series	Size	100 FPM		125 FPM		150 FPM		175 FPM		200 FPM	
		CFH	RPM	CFH	RPM	CFH	RPM	CFH	RPM	CFH	RPM
900	9"	2040	33	2600	41	3050	50	3500	58	4080	66
1200	12"	3475	33	4300	41	5200	50	6075	58	6950	66
1400	14"	4750	33	5900	40	7100	50	8300	58	9500	66
1600	16"	6050	32	7600	40	9150	48	10600	56	12100	64
1800	18"	8100	32	10150	40	12300	48	14300	56	16200	64
2000	20"	10500	23	13000	29	15650	35	18200	40	21000	46
2400	24"	14800	23	18150	29	22000	35	25750	40	29600	46

1. 90% loading Capacities based on with a free-flowing material.
2. Selection of conveyors should be based upon the material's characteristic.
3. Capacities and speed will vary from other than free flowing and will be reduced if idler return is used.

Please Consult *Martin* if you have questions concerning your application.

The *Martin* Round Bottom drag is designed with the user in mind. We have incorporated larger heat-treated sprockets into the design to reduce noise, vibration and chain chordal action while increasing chain and sprocket life. Our goal is to reduce maintenance and operating costs for the user.

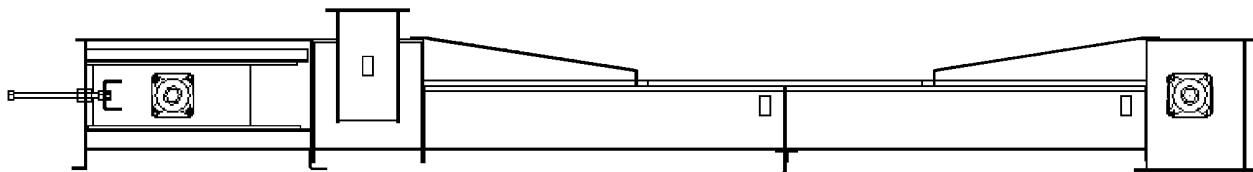


Standard Features

- Bolted Flanged Covers
- Welded Steel Chain
- Jig Welded Attachments
- UHMW Flights with Heavy Duty Backing Plate
- Dust Tight Form Flanged Trough
- Heat Treated Sprockets
- Rail Return System
- Flow Thru Inlet

Popular Options

- By-Pass Inlets
- Hip Roof Covers
- Self-Cleaning Tail
- Intermediate Discharges
- Idler Return System
- Abrasive Resistant Steel Return Wear Strip
- Split Sprockets





Field assembly of *Martin* MFB™ Drag

Assembly

Return Rails

Assure all return rails are adjusted so they match up evenly at the joints; be sure to grind any burrs off the rail joints. The vertical alignment of the rails is most critical on drags having outboard return rails.

Tightening the Chain

Tightening the chain on initial startup may require the removal of several links of chain. On drags with welded steel chain there will be a 10' section of cottared chain marked at the factory by contrasting spray paint. Do not over tighten the chain; always remember that the take-up control's the chain tension on the return strand. The carrying strand is naturally in tension.

Chain tension is one of the most important aspects of maintaining your drag. Never over tighten the drag chain. The tension should be tightened till the chain is pulled or stripped from the head sprocket but no tighter. Slack side tension can be helped by the use of mechanical devices such as an Slack Side Tension Idler Sprocket or stripper rail.

An under tightened chain will want to stay engaged with the head sprocket tooth and rap around the head sprocket. A catastrophic failure can be the result of an under tensioned chain. Regular chain inspection is important especially during the initial start-up period, make take-up adjustments as needed.

On **L-Path drags** the best place to watch and adjust the tension is at the bottom bend section and at the tail sprocket. The Slack Accommodating lower bend is an especially convenient way to look at and determine the optimum tension. Adjust tension till the chain is several inches off the divider plate and moves up and down as it runs. The chain movement is a result of chordal action caused by the sprocket (much more noticeable with sprockets having less than 12 teeth). The chain should move freely but should not hit the divider plate. The chain should be snug but not tight at the tail. The chain should disengage smoothly from the head sprocket. Once the drag is running to your satisfaction, mark on the side of the SA Bend near the inspection panel the

proper location of the chain so that future adjustments are easily determined. By looking through the inspection panel you can see if the chain needs adjusted or links removed. With an L-path drag of more than 30 degrees incline you control the tension from the tail to the lower bend with the take-up; gravity takes care of tension on the incline section.

On the **Super Duty drag** the take-up adjustment is made at the Slack Side Tension Idler Sprocket in the head and at the tail. You adjust the take-ups till there is slight sag of the chain coming off the Slack Side Tension Idler Sprocket, located in the head. The chain at the tail should be snug but not tight. The chain should be smoothly disengaging the head sprocket. Mark the location of the chain when it is properly tensioned on the side of the transition cover at the inspection panel near the head, making future adjustments easier.

The **Flat Bottom and Round Bottom drags** chain tension adjustment is done at the tail by tensioning the chain till it is snug but not tight, you should be able to lift the chain when the drag is not running. Observe proper lockout and tag out procedures when maintaining the drag conveyor. With the chain running confirm that the chain is disengaging the head sprocket smoothly.

The **Mill Duty drag's** chain tension is either adjusted like a Flat Bottom drag or a Super Duty drag depending on the type of head section your drag is furnished with.

Sprocket Alignment

Assure that the sprocket is located in the center of the head and tail sections. Also check that all set screw or set collars are correctly tightened. Assure the sprockets are in alignment with each other, a laser is a useful tool to check sprocket alignment.

Lubrication

Assure that all bearings are properly lubricated with the manufacture's specified lubricant.

Assure all drives have the correct and adequate oil.

Drag Conveyor Maintenance Tips



Weld Steel Chain and MFB Tail™

Common Operating Mistakes

Over Tightening the Chain

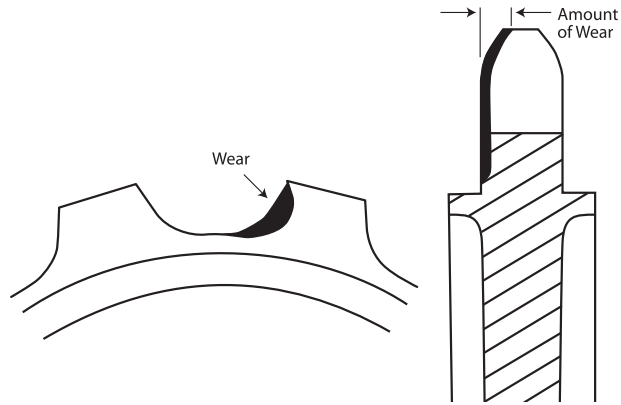
Over tightening the chain is the most common mistake and will cause accelerated chain and sprocket wear. Over tightening of the chain can also increase the wear of the drag flights, reduce bearings life and can cause damage to the shafts. It is better to slightly under tighten the chain than over tightening the chain.

Uneven Take-up Adjustment

Always adjust the take ups evenly and when the drag is not running. Uneven adjustment of the chain can cause accelerated chain, sprocket and flight wear. Uneven adjustment of the take ups may cause the chain to run to one side of the trough causing accelerated trough wear. It may be necessary to use the take up to get chain to run straight but should be minimized and can be an indication of an installation issue.

Not Checking Chain Wear

Set up and follow a preventative maintenance plan that includes regular inspection of the chain for stretch/wear. Chains tend to wear in during the initial operation of the chain so need to be inspected more often during the first 3 months of operation. Adjust the take-ups or remove chain links as needed to maintain proper tension.



Sprocket Wear

Maintenance Tips

Chain Wear

Conveyor chain stretch is commonly used to identify when a drag chain is worn out. It is usually described as a percent of stretch and a commonly used range is 4% to 6% but it is *Martin's* recommendation that the user contact the chain manufacturer for their recommendation.

When replacing the drag chain it is *Martin's* recommendation to also replace the sprockets.

Sprocket Wear

As sprockets are worn, the drag chain tends to “cling” to the sprockets or vibrate. The amount of allowable wear is dependent on the chain type and chain size. Wear of between .12” to .24” is a good sign that the existing sprocket needs replaced. The wear appears in the root of the sprocket tooth.

Wear on the side of the tooth is an indication that the alignment of the sprockets may be incorrect. The wear may be an indication that the take-ups are not evenly adjusted or that sprockets are not in alignment. The mis-alignment can be caused by the shaft walking in the bearing or the sprocket moving caused by the set screw being loose. It is also important to assure that the shafts are parallel to each other.

Flight Wear

Accelerated flight wear can have several causes but the most common is the high material temperature. Material temperatures are most critical when dealing with non-metallic flights. It is important to check flight wear whenever your process has changed. Chain speed is always a component of flight wear and slower is better when wear is an issue. The chain tension should be checked if flight wear becomes an issue.

Anytime your process or the material changes it may have an effect on flight wear, chain wear and sprocket wear.

Make sure you have and follow a regular preventative maintenance inspection plan that is based on your operating conditions.

Assure you have a Safety Program that includes a Lockout/ Tag out Program.

VERTICAL SCREW ELEVATOR	PAGE
INTRODUCTION	H-167
SCREW ELEVATOR TYPES	H-168
STANDARD COMPONENTS	H-169
STANDARD SCREW ELEVATOR SPEED AND CAPACITY	H-170
SUPER SCREW ELEVATOR SPEED AND CAPACITY	H-171
SUPER SCREW DRIVE UNIT	H-172
SUPER SCREW ELEVATOR DIMENSIONS	H-173- H-174

Martin Screw Elevators

For over fifty years, *Martin* Standard Screw Elevators have been successfully elevating a wide range of materials. In 1956, we added the heavier duty Superscrew Elevator, giving our customers the ability to elevate larger capacities to greater heights.

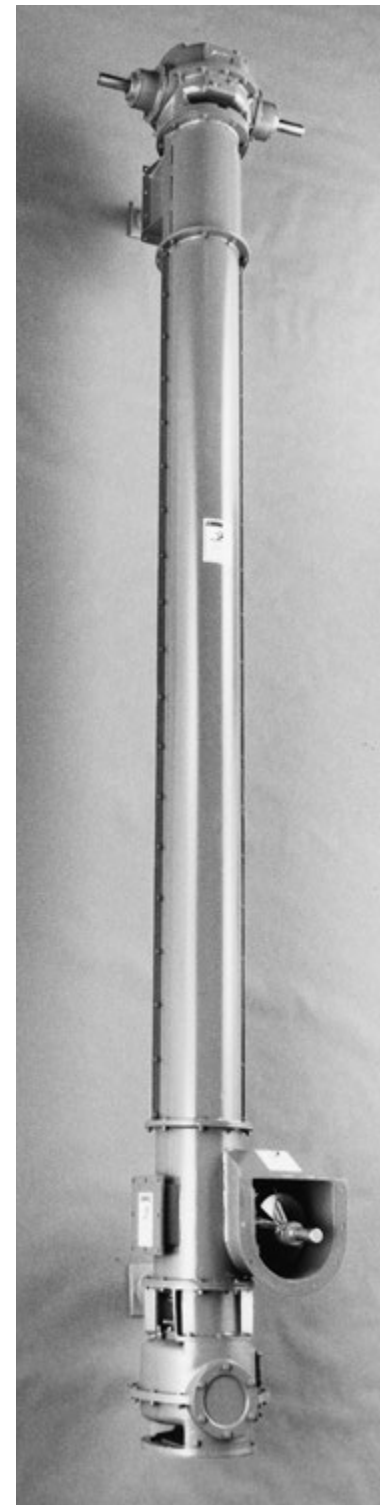
The *Martin* Screw Elevator is ideally suited to elevate a wide range of bulk materials in a relatively small space. If a material can be classified as very free flowing or free flowing, it can probably be elevated in a crew Elevator.

We offer both our Standard and Superscrew Elevators with several different drive arrangements to meet our customers' individual requirements. *Martin* has an experienced staff in over twenty locations throughout the U.S.A. and Canada that can help you design the right screw elevator for your application. We have the capability of manufacturing our screw elevators in six locations in the U.S.A.

Contact your nearest *Martin* facility with your application information and we will design the right elevator for your needs.

Partial Material List

- | | | | |
|------------------|----------------|-----------------------|-------------------|
| • Alfalfa Meal | • Hops | • Oats | • Soda Ash |
| • Barley, Malted | • Ice | • Paper Pulp | • Soybean Meal |
| • Bone Meal | • Kaolin Clay | • Peanuts | • Sugar |
| • Cement | • Lead Oxide | • Resin | • Sunflower Seeds |
| • Coffee | • Lime | • Rubber, Ground | • Tobacco |
| • Corn Meal | • Malt | • Salt | • Wheat |
| • Cotton Seed | • Mica | • Sawdust | • Wood Flour |
| • Cryolite | • Milk, Dried | • Screened Wood Chips | |
| • Flours | • Mixed Feeds | • Shellac, Powder | |
| • Grains | • Mustard Seed | | |



**Type 4
Superscrew Elevator**

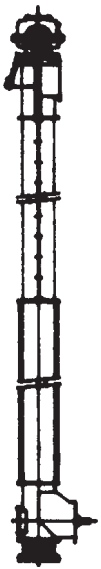
Martin Screw Elevators

To help better meet the needs of our customers, we offer both the *Martin* Standard and Superscrew Elevators in sixteen different types. The different types allow us to vary the drive location, discharge location and feed arrangement. We are also able to drive the feeder or take-away conveyor by the screw elevator drive.

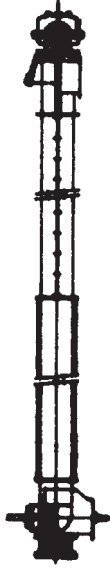
The *Martin* Screw Elevators are easy to install because they are factory assembled, match-marked and disassembled prior to shipment. All *Martin* Screw Elevators are of a sturdy self-supporting design and only need lateral support when installed.

The drives for the *Martin* Standard and Superscrew Elevators are manufactured by *Martin* and are specifically designed for use with our screw elevators. We can also offer a Screw Conveyor Drive arrangement for lighter duty applications.

Super Screw Elevator Types



Type 1
Straight Inlet
Top Drive,
Pedestal Base



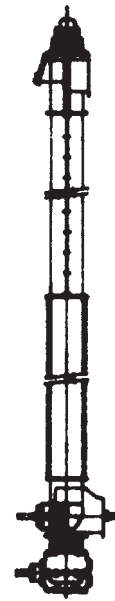
Type 2
Offset Inlet
Top Drive,
Pedestal Base



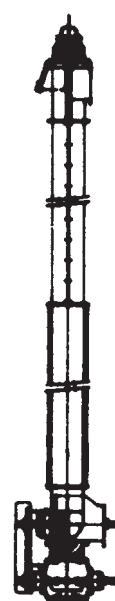
Type 4
Offset Inlet
Top Drive,
Bottom P.T.O.
With Drive



Type 5
Straight Inlet
Bottom Drive,
Thrust Head



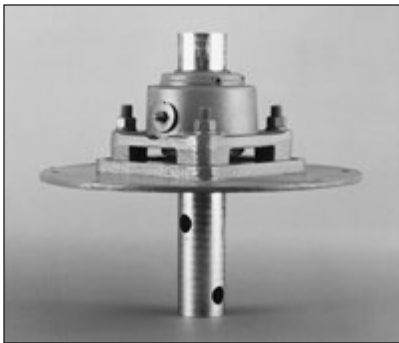
Type 6
Offset Inlet
Bottom Drive,
Thrust Head



Type 8
Offset Inlet
Bottom Drive,
Thrust Head
With Drive

NOTE: All elevators are furnished less feeder and/or feeder drive unless otherwise specified.

CAUTION: Never operate without covers and guards. Always LOCKOUT/TAGOUT electrical power when working on equipment for inspection, cleaning, maintenance, or other purposes.



Standard Screw Thrust Unit

All *Martin* Screw Elevators come with heavy duty helicoid or sectional screws which are checked for straightness and run-out to ensure a smooth running elevator. When handling free flowing material, we add stabilizers as needed, as the height of the elevator increases. The stabilizer bearings are available in a wide range of bearing materials to meet our customers' requirements, including wood, hard iron, bronze, UHMW, and others.

Both the *Martin* Standard Screw and Superscrew Elevators are supplied with split intermediate housing to allow easier maintenance.

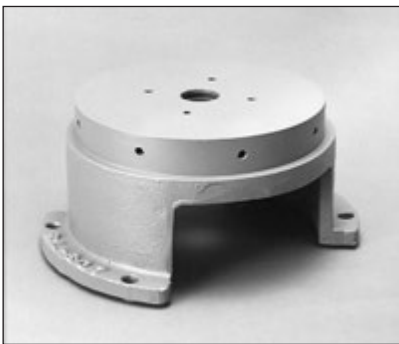
Martin's specially engineered inlet/bottom section assures a smooth transfer to conveyed material from the horizontal to vertical with a minimum of back-up and product degradation.

The bottom inspection panel is bolted to minimize any product leakage. It also has a shroud to assure that the conveyed material is moving smoothly through the area.

The drives for both the Standard Screw and the Superscrew Elevator are manufactured by *Martin* to guarantee their quality and availability.



Stabilizer Bearing Used on Standard Screw Elevator



Standard Screw Pedestal Base



Standard Screw Thrust Head

Clearance Between Screw and Housing

Size	Type of Housing	Clearance	Standard Screw Elevator			Superscrew Elevator		
			Intermediate	Top and Bottom Sections	Screw	Intermediate	Top and Bottom Sections	Screw
6	Standard Clearance	1/2	14	14	6H304	14	10	6H304
	Close Fitting Clearance	1/4	14	14	6.5S312*	14	10	6.5S312*
9	Standard Clearance	1/2	12	12	9H306	12	3/16	9H306
	Close Fitting Clearance	1/4	12	12	9.5S312*	12	3/16	9.5S312*
12	Standard Clearance	1/2	10	10	12H408	10	3/16	12H408
	Close Fitting Clearance	1/4	10	10	12.5S412*	10	3/16	12.5S412*
16	Standard Clearance	1/2	-	-	-	10	3/16	16H610
	Close Fitting Clearance	1/4	-	-	-	10	3/16	16.5S612*

* Close clearance sectional screws supplied as required.

Screw Elevator



The *Martin* Standard Screw Elevator is designed to handle under normal conditions, capacities ranging from 360 CFH to 3600 CFH in 6" dia., 9" dia., and 12" dia. sizes. With complete information, *Martin* engineering staff can help you design the right Screw Elevator for your application.

Martin Standard Screw Elevator Speed / Capacity

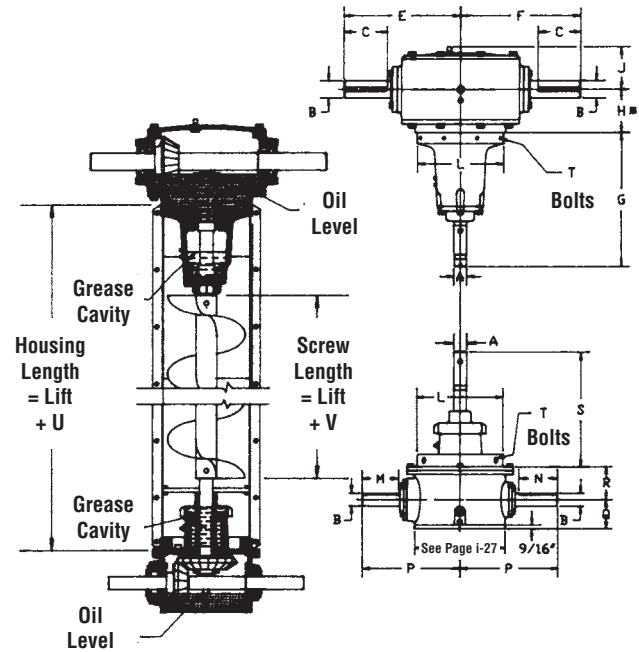
Clearance Between Screw and Housing

Size	Vertical Shaft Diameter	Ratio Top Drive	Ratio Bottom Drive	▲ Recommended Minimum and Maximum Speeds			RPM Horizontal Feeder Screw 45 Percent Loading	Capacity Cubic Foot per Hour
				Vertical Screw	Input Top Drive	Input Bottom Drive		
6	1 1/2	2:1	1.4:1	200	400	280	165	360
				215	430	301	177	400
				275	550	385	226	500
9	1 1/2	2:1	1.4:1	170	340	238	139	1100
				200	400	280	163	1300
				230	460	322	187	1500
12	2	2:1	2:1	155	310	310	147	2700
				165	330	330	156	3000
				200	400	400	189	3600

▲ For speeds in excess or less than shown, consult *Martin*.

The Standard Screw Elevator drive unit will function efficiently with the elevator erected at any angle of incline from horizontal to vertical. The input shaft can be driven in either direction, and the input shaft extension may be used to drive a horizontal feeder or discharge conveyor.

Both top and bottom drives are required when the elevator, feeder and discharge conveyor are all driven from one power source. A top drive and pedestal base are used when the elevator and discharge conveyor are driven from one source. A bottom drive and thrust unit are necessary if the elevator and feeder are driven from one power source. The drives are designed and constructed to withstand all radial and thrust loads and support the entire weight of a fully loaded elevator.



Size	Ratio		A	B		C	E	F	G	H	J	L	M	N	P	Q	R	S	T Bolts		U	All Other Types	V
	Top Drive	Bottom Drive		Top Drive	Bottom Drive														No. Rec'd	Size				B & BO	All Other Types
6*	2:1	1.4:1	1 1/2	2	1 1/2	5	13 1/2	14	15 1/4	7 5/8	4 15/16	7 4 1/4	4 1/2	11 11/32	3 3/8	3 13/16	13 1/4	4	3/8 - 16 NC	16 7/8	23 1/8	6 5/8	
9	2:1	1.4:1	1 1/2	2	1 1/2	5	13 1/2	14	15 1/4	5	4 15/16	10 4 1/4	4 1/2	11 11/32	3 3/8	3 13/16	13 1/4	8	3/8 - 16 NC	21 1/2	27 3/4	8 3/4	
12	2:1	2:1	2	2	2	5	13 1/2	14	15 1/4	4 7/8	4 15/16	13 5	5 9/16	14 7/16	3 7/8	4 9/16	13 1/4	8	1/2 - 13 NC	26	31 3/4	12 3/4	

*2 5/8" lg. adapter for 6" head not illustrated.
 Note: Dimensions not certified for construction.
 Dimensions in Inches

CAUTION: Never operate without covers and guards. Always LOCKOUT/TAGOUT electrical power when working on equipment for inspection, cleaning, maintenance, or other purposes.

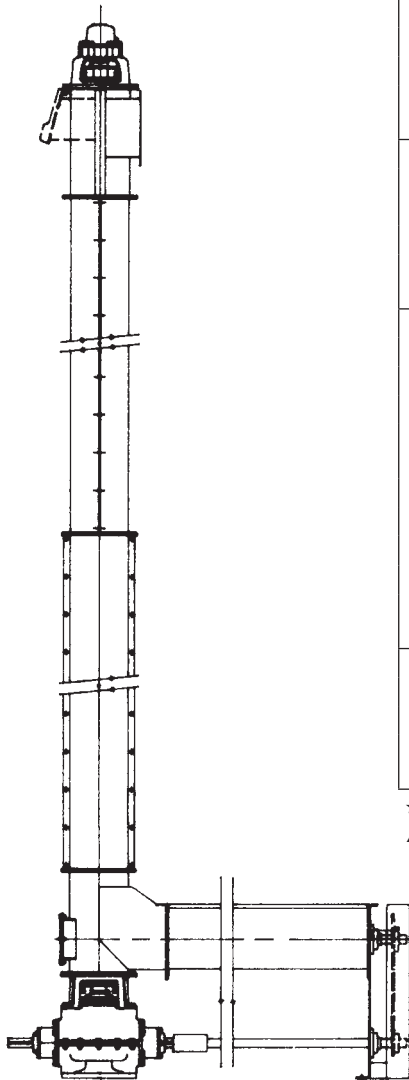
The *Martin* Superscrew Elevator is designed to handle capacities ranging from 360 CFH to 7000 CFH in 6" dia., 9" dia., 12" dia., and 16" dia. sizes.

Martin Superscrew Elevator Speed / Capacity

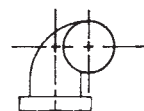
Size	Vertical Shaft Diameter	Ratio Top Drive	Ratio Bottom Drive	▲ Recommended Minimum and Maximum Speeds			RPM Horizontal Feeder Screw 45 Percent Loading	Capacity Cubic Foot per Hour
				Vertical Screw	Input Top Drive	Input Bottom Drive		
1	2	3	4	5	6	7	8	9
6	1 1/2	2:01	2:01	200	400	400	165	360
				215	430	430	177	400
				275	550	550	226	500
				330	660	660	272	600
				Up to 425	Up to 850	Up to 850	★	★
9	2	2:01	2:01	170	340	340	139	1100
				200	400	400	163	1300
				230	460	460	187	1500
				240	480	480	196	1600
				Up to 425	Up to 850	Up to 850	★	★
12	2 7/16	2:01	2:01	155	310	310	147	2800
				165	330	330	156	3000
				200	400	400	189	3600
				210	420	420	199	3800
				Up to 425	Up to 850	Up to 850	★	★
	2 7/16★ 3	2.06:1	2.06:1	155	319	319	151	2800
				165	340	340	161	3000
				200	412	412	195	3600
				210	433	433	205	3800
				Up to 425	Up to 876	Up to 876	★	★
16	3	2.06:1	2.06:1	138	284	284	132	6000
				150	309	309	144	6500
				161	332	332	155	7000
				Up to 425	Up to 876	Up to 876	★	★

★ Consult *Martin*.

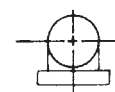
▲ For speeds in excess or less than those shown, consult *Martin*.



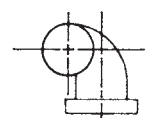
Type 7 Superscrew Elevator



Elevator Offset to the Right of Inlet



Straight Inlet



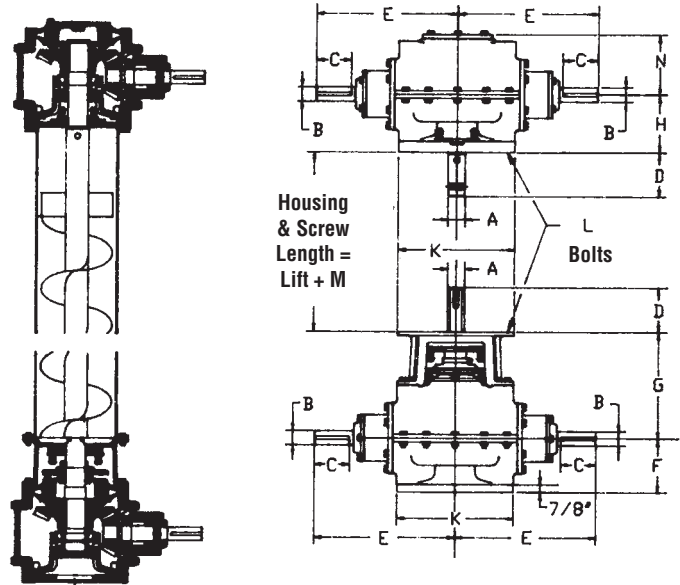
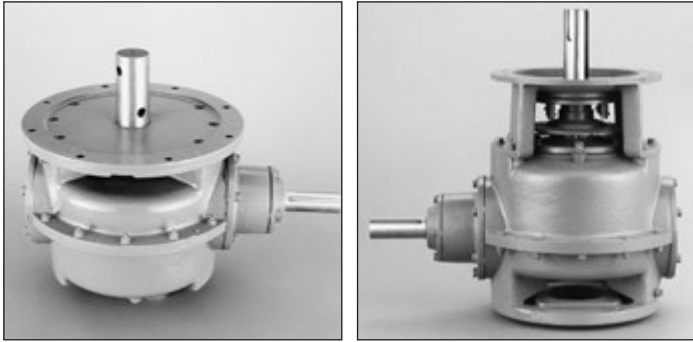
Elevator Offset to the Left of Inlet

CAUTION: Never operate without covers and guards. Always LOCKOUT/TAGOUT electrical power when working on equipment for inspection, cleaning, maintenance, or other purposes.

Superscrew Elevator



Superscrew Elevator D.S.D (Dry Shaft Drive)



DSD (Dry Shaft Drive) is a completely new design and construction concept especially developed to enable the Superscrew Elevator to broaden the application of screw elevators.

The DSD unit is designed to meet special conditions encountered in vertical installations and may be installed in the range of 70° to 90° incline. If a smaller angle of incline is required, special units may be furnished.

A patented lubrication system precisely “meters” the proper amount of lubricant to those points where needed with no danger of damaging seals.

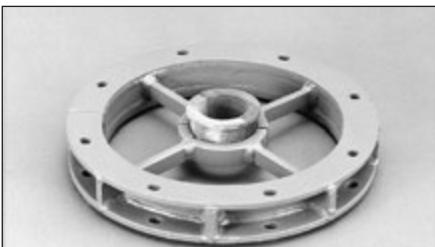
DSD units may be furnished at both the top and the bottom of the elevator. The top drive incorporates special design features to assure that no lubricant may pass into the elevator to contaminate the material being elevated. In the bottom drive unit other special features prevent entrance of foreign material into lubricant.

DSD units may also be furnished at the top only with a pedestal base or at the bottom only with a thrust head.

The compactness of the DSD requires a minimum of head room providing maximum lift with minimum overall elevator height.

DSD units are sturdily constructed to withstand all radial and thrust loads encountered and to support the entire weight of elevators and materials handled.

Size	Ratio	A	B	C	D		E	F	G	H	K	L		M
					Top	Bottom						No.	Size	
6	2:1	1 1/2	1 5/8	4	4 3/4	5	16	6 1/8	12	7 1/2	10 1/8	8	3/8	12 1/4
9	2:1	2	1 5/8	4	4 3/4	5	16	6 1/8	12	7 1/2	13 1/4	8	3/8	13 1/4
12	2:1	2 7/16	1 5/8	4	4 7/8	5	16	6 1/8	12	7 1/2	16 1/4	8	1/2	18 1/4
	2.06:1	2 7/16	1 5/8	4 1/4	4 7/8	5	18.1	6 7/8	12 5/8	7 1/4	17 1/4	8	1/2	18 1/4
	2.06:1	3	2 3/16	4 1/4	5	5	18.1	6 7/8	12 5/8	7 1/4	17 3/8	8	1/2	18 1/4
16	2.06:1	3	2 3/16	4 1/4	5	5	18.1	6 7/8	12 5/8	7 1/4	20 1/4	12	1/2	24 1/4



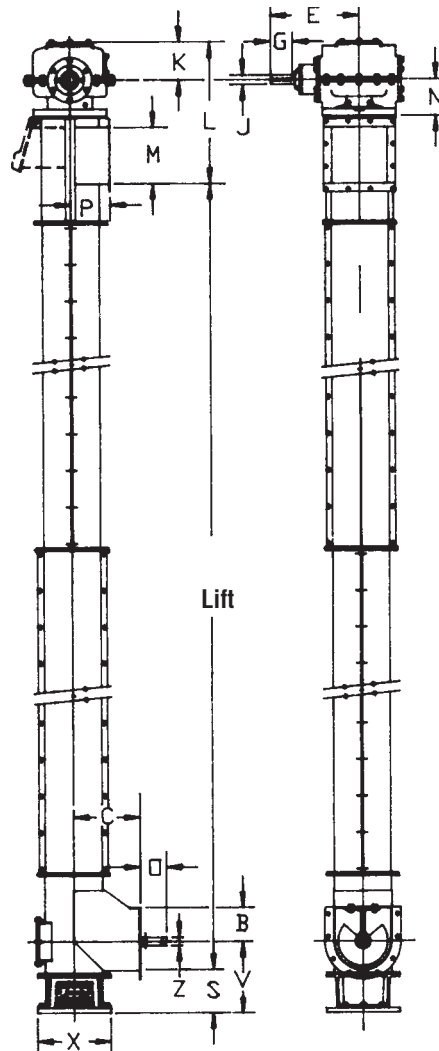
Spider Type Stabilizer
Used on Superscrew



Superscrew
Thrust Head



Superscrew
Pedestal Base



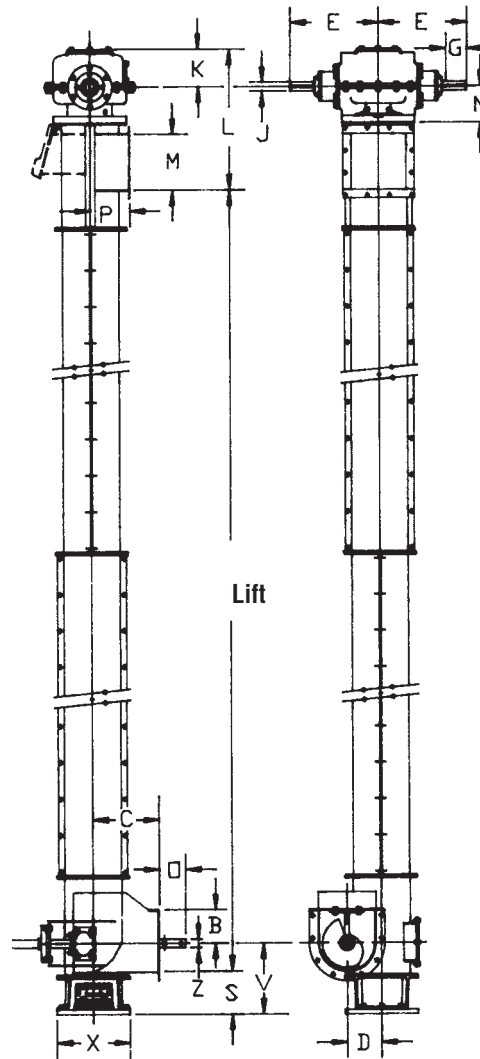
Type 1

Size of Elevator	Vertical Shaft Diameter	Ratio	B	C	E	G	J	K	L	M	N	O	P	S	V	X	Z ◇
6	1 1/2	2:1	4 1/2	10 1/2	16	4	1 5/8	6 3/4	26 3/4	7	6 1/2	4 3/4	5	8 3/8	11 7/8	13 1/4	1 1/2
9	2	2:1	6 1/8	12	16	4	1 5/8	6 3/4	28 1/4	10	6 1/2	4 3/4	7 1/8	7 7/8	12 7/8	13 1/4	1 1/2
12	2 7/16	2:1	7 3/4	15	16	4	1 5/8	6 3/4	32 1/4	13	6 1/2	4 3/4	8 7/8	8 7/8	15 3/8	13 1/4	2
	○2 7/16	2.06:1	7 3/4	15	18.1	4 1/4	2 3/16	7 15/16	34 3/8	13	7 1/4	4 3/4	8 7/8	9	15 1/2	17 3/8	2
16	3	2.06:1	7 3/4	15	18.1	4 1/4	2 3/16	7 15/16	34 3/8	13	7 1/4	4 3/4	8 7/8	9	15 1/2	17 3/8	2
	3	2.06:1	10 5/8	20	18.1	4 1/4	2 3/16	7 15/16	39 7/8	17	7 1/4	5	11 1/8	9 1/2	18	17 3/8	3

CAUTION: Never operate without covers and guards. Always LOCKOUT/TAGOUT electrical power when working on equipment for inspection, cleaning, maintenance, or other purposes.

Note: Dimensions not certified for construction.

Superscrew Elevator Dimensions



Normally Furnished Offset to the Left

Type 2

Size of Elevator	Vertical Shaft Diameter	Ratio	B	C	D	E	G	J	K	L	M	N	O	P	S	V	X	Z ◇
6	1 1/2	2:1	4 1/2	10 1/2	4 3/4	16	4	1 5/8	6 3/4	23 3/4	7	6 1/2	4 3/4	5	8 3/8	11 7/8	13 1/4	1 1/2
9	2	2:1	6 1/8	12	6 1/4	16	4	1 5/8	6 3/4	25 1/4	10	6 1/2	4 3/4	7 1/8	7 7/8	12 7/8	13 1/4	1 1/2
12	2 7/16	2:1	7 3/4	15	8	16	4	1 5/8	6 3/4	29 1/4	13	6 1/2	4 3/4	8 7/8	8 7/8	15 3/8	13 1/4	2
	○2 7/16	2.06:1	7 3/4	15	8	18.1	4 1/4	2 3/16	7 15/16	31 3/8	13	7 1/4	4 3/4	8 7/8	9	15 1/2	17 3/8	2
16	3	2.06:1	7 3/4	15	8	18.1	4 1/4	2 3/16	7 15/16	31 3/8	13	7 1/4	4 3/4	8 7/8	9	15 1/2	17 3/8	2
	3	2.06:1	10 5/8	20	10 1/2	18.1	4 1/4	2 3/16	7 15/16	36 3/4	17	7 1/4	5	11 1/8	9 1/2	18	17 3/8	3

Dimensions in Inches

◇ Horizontal coupling diameter may vary upon length of feeder.

○ Consult *Martin* before using.

CAUTION: Never operate without covers and guards. Always LOCKOUT/TAGOUT electrical power when working on equipment for inspection, cleaning, maintenance, or other purposes.

Note: Dimensions not certified for construction.

MODULAR PLASTIC SCREWS

PAGE

INTRODUCTION H-175
TECHNICAL AND DESIGN DATA H-176 – H-177

Another *Martin* patented Innovation. We'll give your customers another reason to give you their business.



Popular Options

- Plastic modules consist of a helical flight spiraling once around a hollow square hub.
- Eliminates need to spot or continuously weld metal flights to shaft.
- Polyurethane - used where impact/abrasive wear is a problem. Lab tests show it up to 3 times more wear resistant than carbon or stainless steel in certain applications.
- All-plastic material does not corrode, is impervious to acids, caustics and other chemicals.
- Durable, lightweight injection-molded modules stack on square tube.
- Polypropylene - general purpose material for high temperature service.
- FDA approved for food contact.
- Highly resistant to corrosion.
- Modules are individually replaceable without welding or burning.
- Assembled conveyor is comparatively lightweight, easier to handle, and bearing life is prolonged.
- Polyethylene - general purpose material. FDA approved for food contact.
- Good abrasive and excellent corrosion resistance in a wide temperature range.
- Slick surface simplifies cleaning.

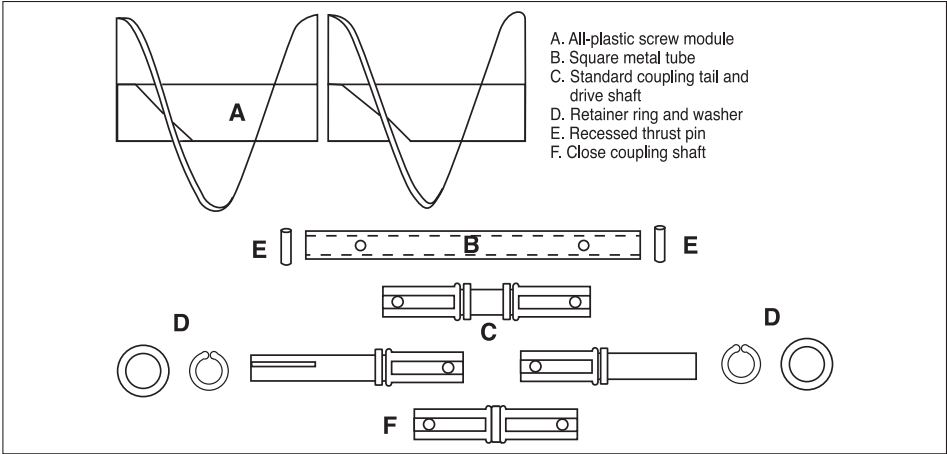
*Conveyors shown without cover for illustration purposes only. Please follow manufacturing safety guidelines when operating conveyors.

Modular Plastic Screw Conveyors Design Data

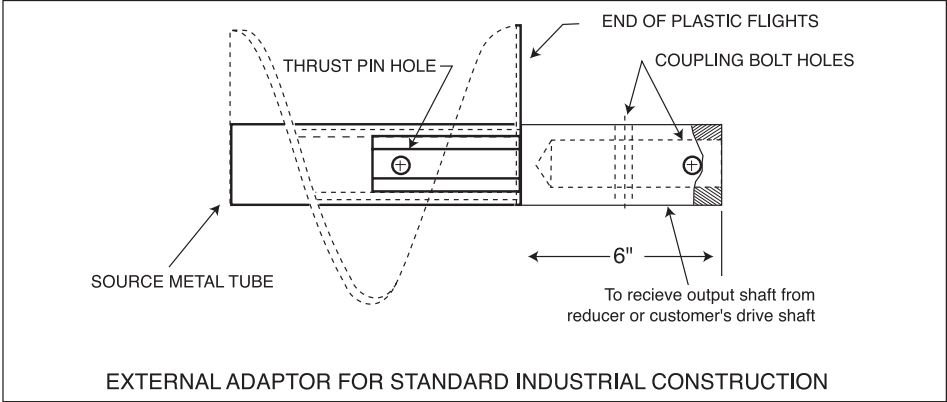


Martin Solutions to Screw Conveyor Problems

- Currently available in 6", 9" and 12" diameters, in right hand only.
- Assembled conveyors compatible with CEMA standards; easily retrofitted.
- Flight modules available in polyethylene, polypropylene, and polyurethane, each with characteristics to fill specific needs (see Technical Data).
- Flights and hubs are integrally molded, resulting in consistent diameter, pitch and thickness with a uniform, smooth finish.
- Plastic modules eliminate metal contamination to food.
- Assembled conveyor is light in weight, is safe and easy to handle; bearing life is prolonged.
- Plastic flights may operate at close clearances, or when conveying many materials, directly on the trough without danger of metal contamination.
- Modules are individually replaceable.
- Balance is excellent allowing high speed operation.



The *Martin* Screw Conveyor System consists of plastic modules stacked on a square metal tube. A shaft is inserted at each tube end and secured by a recessed pin. Modules are secured at tube ends by retainer rings and washers.



MOUNTED SCREW CONVEYOR

END CONSTRUCTION

DIAMETER	AVAILABLE SHAFTS		WEIGHT PER FOOT	
	FULL PITCH	SHORT PITCH	FULL PITCH	SHORT PITCH
6"	1-1/2", 2"		4.1 lb	4.3 lb
9"	1-1/2", 2"		4.5 lb	5.2 lb
12"	2", 2-7/16"		8.0 lb	9.5 lb
14"	NOT CURRENTLY AVAILABLE			
16"	NOT CURRENTLY AVAILABLE			

Weights shown as for polyethylene or polypropylene on stainless steel tube, polyurethane approximately 10% heavier.

DIAMETER	FULL PITCH	SHORT PITCH	FLIGHT THICKNESS	OUTSIDE HUB	INSIDE HUB
6"	9.05"	4.53"	.25"	2.51"	2.03"
9"	9.05"	4.53"	.25"	2.51"	2.03"
12"	11.72"	5.86"	.34"	3.17"	2.53"
14"	NOT CURRENTLY AVAILABLE				
16"	NOT CURRENTLY AVAILABLE				

FLIGHT THICKNESS MODULES

Screw Conveyor Capacities

CUBIC FEET PER HOUR PER R.P.M. FULL PITCH HORIZONTAL				
DIAMETER	PITCH	CONVEYOR LOAD		
		FULL	45%	30%
6"	9"	5.72	2.57	1.72
9"	9"	16.73	7.53	5.02
12"	12"	39.27	17.67	11.78
14"	14"	NOT CURRENTLY AVAILABLE		
16"	16"	NOT CURRENTLY AVAILABLE		

Maximum Recommended Conveyor Speed / Horizontal Operation / R.P.M.

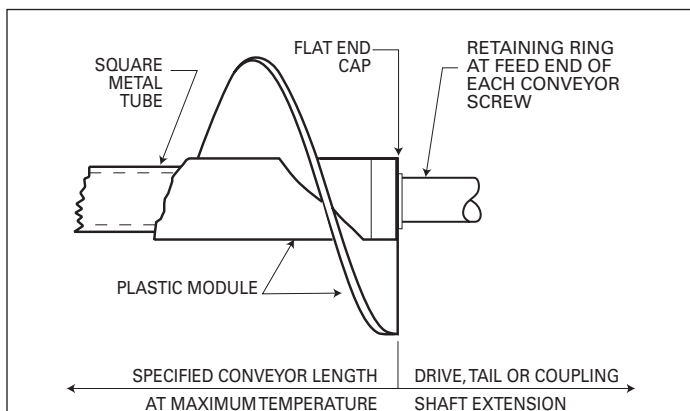
DIA.	SHAFT	TYPE OF INTERMEDIATE BEARING	
		WOOD, NYLATRON, BRONZE	CLOSE COUPLED*
6"	1 1/2"	165	90
9"	1 1/2"	165	80
9"	2"	150	80
12"	2"	145	70
12"	2 7/16"	140	70
14"	2 7/16"	NOT CURRENTLY AVAILABLE	
14"	3"	NOT CURRENTLY AVAILABLE	
16"	3"	NOT CURRENTLY AVAILABLE	

* Close coupled limitations apply to screw lengths over 12 ft. (for 6" and 9" dia.) or 15 ft. (for 12" dia). For longer lengths or units without intermediate bearing supports, locate end bearing no more than 3 1/8" (for 6" size); 4 5/8" (for 9" size); or 6 1/8" (for 12" size); centers above the inside bottom of the conveyor trough.

Design Data for Bonded Construction

Bonded Construction is used in the handling of a finished food product or for the conveying of any product in which it is necessary to guard against material entering the internal clearances between the modules or into the inside of the square tube.

The hubs of the individual modules are heat fused together, the ends of the flights may be fused or may be cut to create a "clean out" gap, usually 1/8" to 1/4" wide.



FLAT END CAPS

Flat End Caps are the basic construction for conveying finished food products. Drive and Tail End Shafts are shipped factory installed. If used with coupling shafts, the thrust bearing must be at the feed end of the conveyor assembly. Retaining ring may be eliminated in some applications depending upon length and temperature involved.

Horsepower Ratings

DIA.	SHAFT	RATINGS FOR CARBON STEEL SHAFT AND TUBE			
		50 R.P.M.	75 R.P.M.	100 R.P.M.	150 R.P.M.
6"-9"	1 1/2"	3.4	5.1	6.8	10.1
6"-9"	2"	5.6	8.4	11.2	16.8
12"	2"	8.0	12.0	16.0	24.0
12"	2 7/16"	9.1	13.6	18.2	27.3
14"	2 7/16"	NOT CURRENTLY AVAILABLE			
14"	3"	NOT CURRENTLY AVAILABLE			
16"	3"	NOT CURRENTLY AVAILABLE			

NOTE: The above limitations are based on *Martin* modular plastic construction throughout. The use of coupling bolts, as required for an external adaptor, may reduce horsepower capacity.

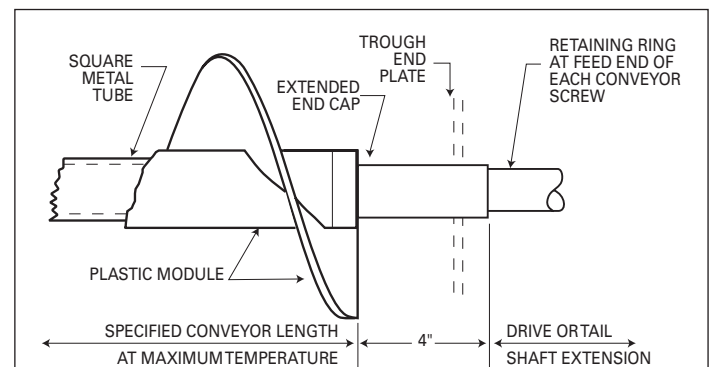
Materials of Construction

	POLYETHYLENE	POLYPROPYLENE	POLYURETHANE
FDA Approved	Yes	Yes	No
Abrasive Resistance	Good	Fair	Excellent
Corrosive Resistance	Excellent	Excellent	Good
Impact Resistance	Good	Fair	Excellent
Temperature Limit	-60° to +150° F	+40° to +220° F	-20° to +150°
Release	Excellent	Good	Good

Note: Release pertains to the capability of conveying "sticky" products.

The ends are capped and fitted with an "O" ring to seal around the shaft. The cap may be of alternate construction as detailed below.

Bonded Construction has USDA acceptance for use as a component part of food processing equipment in federally inspected meat and poultry processing plants.



EXTENDED END CAPS

Extended End Caps are used in the handling of products which require a total elimination of cracks and crevices on the conveyor screw. This precludes the use of coupling shafts and therefore limits the unit to one conveyor length, a maximum of 20 feet. Retainer rings and shafts are entirely outside the product area. Drive and Tail End Shafts are shipped factory installed.

Shaftless Screw Conveyors



SHAFTLESS SCREW CONVEYORS

PAGE

TYPICAL APPLICATIONS	H-179
FEATURE, FUNCTION & BENEFIT	H-179
SIZE AND CAPACITY	H-180

Martin Shaftless Screw Conveyors – The Problem Solver

Martin Shaftless Screw Conveyors are the ideal solution for hard-to-transport materials ranging from irregularly shaped dry solids such as scrap wood and metals, to semi-liquid and sticky materials including pulp, compost, food-processing refuse, hospital waste, and wastewater products.

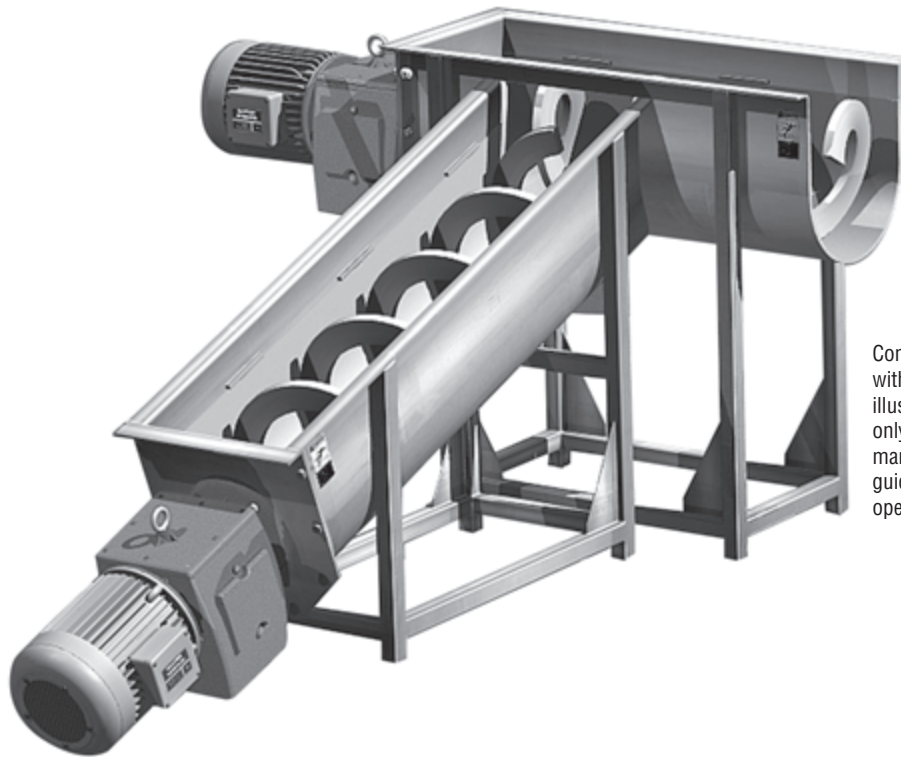
Martin Shaftless Conveyors' simple, pipeless design employs fewer parts than conventional shafted-screw conveyors, reducing lifetime maintenance costs. It enables higher trough loading and lower RPMs, maximizing the volume of materials conveyed.

Martin's Shaftless Screw eliminates jamming and buildup typical in shafted-screw conveyors for greater uptime, higher efficiency, and lower maintenance. It eliminates hanger bearings and

end bearings to reduce maintenance and increase efficiency – enabling direct transfer to another conveyor.

Martin Shaftless Screw Conveyors and components are manufactured and stocked at our branches strategically located near major industrial markets across North America. This ensures rapid shipping on new installations and next-day delivery on stock replacement parts.

Several test units, as well as video footage of actual applications, are available for demonstration of the unique capabilities of the shaftless screw. Discover the benefits *Martin* conveyors can bring to your business – call us today to arrange an on-site demo using your product.



Conveyors shown without cover for illustration purposes only. Please follow manufacturing safety guidelines when operating conveyors.

Typical Applications

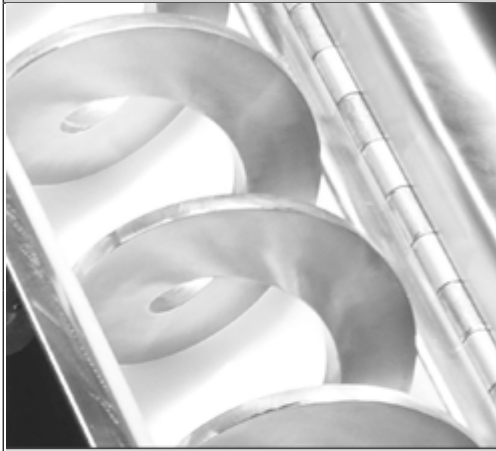
- **Rendering**
 - Poultry Processing
 - Chicken Feathers
- **Pulp & Paper, Gypsum Board, Particle Board**
 - Lime Mud
 - Pulp
- **Agriculture**
 - Fertilizer
 - Grain
 - Meal
- **Hospital Waste Processing, Recycle Plants**
 - Shredded Cans
 - Heavy Reject
- **Wine & Beverage Industries**
 - Whole Berry
- **Waste Water**
 - Solid Waste Treatment
 - Screenings
- **Chemical & Heavy Industrial**
 - Ash
 - Coal
 - Bauxite
- **Meat Processing**
 - Whole Carcasses
 - Wood Chips
 - Fiber Sludge
 - Corn Gluten
 - Powder
 - Peat
- **Fish Processing**
 - Animal Waste
 - Hogged Bark
 - Screenings
 - Sugar Beets/Sugar Cane
 - Salt
 - Pellets
 - Paper
 - Screenings
 - Pumice
 - Grit
 - Carbon Black
 - Bentonite
 - Limestone
- Fish/Animal Bones
- Shavings
- Chopped Hay
- Flour
- Medical Disposables
- Fruit Peels
- Shredded Tires
- Caustic Soda
- Insulation

FEATURE	FUNCTION	BENEFIT
No Center Pipe Required	Eliminate buildup on pipe	Able to convey large irregularly shaped and sticky product
Continuous Flight	Hanger bearings not required	Eliminate costly hanger bearing maintenance
Higher Trough Loading	Can handle more product at lower RPMs	Longer wear life
Can use Blind Endplate on Tail End	No tail bearings or seals to maintain	Reduces maintenance and replacement costs
No End Bearings Needed	Direct transfer to another conveyor, incline, vertical or horizontal	Can be designed to fit within space limitations or plant layout
Side Inlet Feeding	No vertical transition necessary	Lower installation cost — Reduces headroom
3/4" - 1" Thick Flighting	Long lasting due to wear resistance	Increases uptime
Cold Formed Flight	High Brinell	Longer life
Wide Variety of Liners	Offer proper liner for specific application	Reduced wear resulting in lower maintenance costs
Simple Design	Fewer operating parts	Lower overall operating costs
Compact Drive System	Doesn't require belts	Easy to maintain
Can be Completely Enclosed	Prevent material leakage — Reduces dust	Eliminates environmental or product contamination
Manufactured in North America	Quality Built — Local Stock	Fast delivery

Size and Capacity



CONFIGURATIONS / OPTIONS



Shaftless Screw Live Bottom

Type of Steel	<ul style="list-style-type: none"> • Carbon Steel • High Brinell Carbon Steel • Stainless Steel
Capacity	<ul style="list-style-type: none"> • Up to 17,000 CFH
Diameter	<ul style="list-style-type: none"> • 6" to 30" (and larger)
Pitches	<ul style="list-style-type: none"> • Full, 2/3, 1/2
Trough	<ul style="list-style-type: none"> • CEMA Standards
Options	<ul style="list-style-type: none"> • Liners <ul style="list-style-type: none"> - UHMW - Xylethon - Tivar - AR • Rider Bars • Inspection and Overflow Hatches • Various Drive Configurations • Available • Housings: CEMA Standard • U-Trough or Split Tubular Housing
Configurations	<ul style="list-style-type: none"> • Single or Inner/Outer Flight Design • Twin Screw • Multiple Live Bottom Feeders • Inclined Screw Conveyors • Grit Washers • Vertical

*Conveyors shown without cover for illustration purposes only. Please follow manufacturing safety guidelines when operating conveyors.

50% Trough Loading*					
Nom. Dia.	A Dia.	B Inside	C Pitch	CFH @ 1 RPM	Max RPM
6	6	7	6	2.5	25
9	9	10	9	9.1	25
10	10	11	10	12.7	25
12	12	13	12	21.6	25
14	14	15	14	34.7	25
16	16	17	16	51.9	25
18	18	19	18	75.1	25
20	20	21	20	104	25
24	24	25	24	182	25
30	30	31	30	359	25

* Based on horizontal application only.



Client: _____ Date Quote: _____
 Conveyor No.: _____ Inquiry No.: _____

Table 1-2

_____ Dia. × Length **L** = _____ Recommended % Trough Loading: _____
 Material: _____ Material HP Factor: **FM** = _____
 Capacity: _____ Component Series: _____
 Density: **W** = _____ lb/ft³ Intermediate Hanger Bearing Series: _____
 Lumps: Max. Size _____ in. Class (I) (II) (III) _____ Notes: _____

Required Capacity = C = _____ CFH (cubic feet per hour)	$CFH = \frac{TPH \times 2000}{W}$ $CFH = \frac{\text{Pounds per Hour}}{W}$ CFH = Bushels per Hour × 1.24
--	--

Tables 1-3, 1-4, 1-5

$$\text{Equivalent Capacity} = \frac{\text{Req'd Capacity}}{\text{_____}} \times \frac{CF_1}{\text{_____}} \times \frac{CF_2}{\text{_____}} \times \frac{CF_3}{\text{_____}} = \text{_____ CFH}$$

Tables 1-6

Screw Diameter = _____ Select Diameter from "at max RPM" column where capacity listed equals or exceeds equivalent capacity
 Screw RPM = **N** = _____ = $\frac{\text{Equivalent Capacity}}{\text{Capacity "at one RPM" for diameter selected}}$

Tables 1-7

Check lump size and lump class for diameter selected. If larger screw diameter recommended, recalculate RPM per instructions above for selected diameter.

Tables 1-12, 1-13, 1-14, 1-15, 1-16, 1-17

Values to be substituted in formula: **Fd** **Fb** **Ff** **Fp** **e**

$$HP_f = \frac{\left(\frac{L}{\text{_____}}\right) \left(\frac{N}{\text{_____}}\right) \left(\frac{F_d}{\text{_____}}\right) \left(\frac{F_b}{\text{_____}}\right)}{1,000,000} = \text{_____}$$

$$HP_f = \frac{\left(\frac{C}{\text{_____}}\right) \left(\frac{L}{\text{_____}}\right) \left(\frac{W}{\text{_____}}\right) \left(\frac{F_f}{\text{_____}}\right) \left(\frac{F_m}{\text{_____}}\right) \left(\frac{F_p}{\text{_____}}\right)}{1,000,000} = \text{_____}$$

If HP_f + HP_m is less than 5.2, select overload factor F₀ = _____ (If HP_f + HP_m is greater than 5.2 F₀ = 1.0)

$$\text{Total HP} = \frac{(HP_f + HP_m) F_0}{e} = \text{_____} = \text{_____}$$

Drive: Use _____ HP motor with AGMA Class (I) (II) (III) Drive at _____ Screw RPM

Tables 1-18, 1-19

$$\text{Torque} = \frac{\text{Motor HP} \times 63,025}{\text{Screw RPM}} = \text{_____ in-lb}$$

Tables 1-8, 1-9, 1-10, 1-11

Select Components:
 Trough _____ Screw _____ Hanger Style _____ Hanger Bearing _____ Cover _____

Sample Work Sheet



Client: _____ Date Quote: _____
 Conveyor No.: _____ Inquiry No.: _____

Table 1-2
 _____ Dia. x Length **L** = _____ Recommended % Trough Loading: _____
 Material: _____ Material HP Factor: **FM** = _____
 Capacity: _____ Component Series: _____
 Density: **W** = _____ lb/ft³ Intermediate Hanger Bearing Series: _____
 Lumps: Max. Size _____ in. Class (I) (II) (III) Notes: _____

Required Capacity = **C** = _____ CFH (cubic feet per hour)

$$CFH = \frac{TPH \times 2000}{W}$$

$$CFH = \frac{\text{Pounds per Hour}}{W}$$

CFH = Bushels per Hour x 1.24

Tables 1-3, 1-4, 1-5
 Equivalent Capacity = $\frac{\text{Req'd Capacity}}{\text{_____}} \times \frac{CF_1}{\text{_____}} \times \frac{CF_2}{\text{_____}} \times \frac{CF_3}{\text{_____}} = \text{_____ CFH}$

Tables 1-6
 Screw Diameter = _____ Select Diameter from "at max RPM" column where capacity listed equals or exceeds equivalent capacity
 Screw RPM = **N** = _____ = $\frac{\text{Equivalent Capacity}}{\text{Capacity "at one RPM" for diameter selected}}$

Tables 1-7
 Check lump size and lump class for diameter selected. If larger screw diameter recommended, recalculate RPM per instructions above for selected diameter.

Tables 1-12, 1-13, 1-14, 1-15, 1-16, 1-17
 Values to be substituted in formula:

	Fd	Fb	Ff	Fp	e
--	-----------	-----------	-----------	-----------	----------

$$HPf = \frac{\left(\frac{L}{C}\right) \left(\frac{N}{L}\right) \left(\frac{Fd}{W}\right) \left(\frac{Fb}{Ff}\right)}{1,000,000} = \text{_____}$$

$$HPf = \frac{\left(\frac{L}{C}\right) \left(\frac{N}{L}\right) \left(\frac{Fd}{W}\right) \left(\frac{Fb}{Ff}\right) \left(\frac{Fm}{Fp}\right)}{1,000,000} = \text{_____}$$

If HPf + HPm is less than 5.2, select overload factor $F_0 = \text{_____}$ (If HPf + HPm is greater than 5.2 $F_0 = 1.0$)
 Total HP = $\frac{(HPf + HPm) F_0}{e} = \text{_____} = \text{_____}$

Drive: Use _____ HP motor with AGMA Class (I) (II) (III) Drive at _____ Screw RPM

Tables 1-18, 1-19
 Torque = $\frac{\text{Motor HP} \times 63,025}{\text{Screw RPM}} = \text{_____ in-lb}$

Tables 1-8, 1-9, 1-10, 1-11
 Select Components:
 Trough _____ Screw _____ Hanger Style _____ Hanger Bearing _____ Cover _____

Customer: _____ Date Quote Due: _____

Address: _____

Contact: _____ Phone #: _____

Vertical Screw: Lift: _____ Discharge Height: _____

Capacity: _____ (CFH)(lb/hr)(TPH)(MTPH)(BPH)

Material: _____ Density: _____ lb/ft³ Temp: _____ °F Moisture: _____ %

Lumps: Max Size: _____ in Lump Class: _____ (Lump % of Total; I - 10%, II - 25%, III - 95%)

Fed by: _____ Discharges to: _____

Material of Construction: Mild Steel T304 T316 H.D Galv. Other

Installation: New Replacement Indoors Outdoors

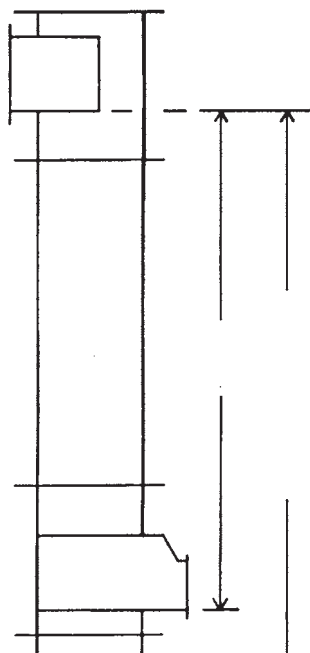
Drive: (Direct) (Screw Conveyor Drive) (Other): _____ V-Belt Chain Guard

Motor: TEFC X-Proof Other _____ Notes _____

Notes _____

Inlet Configuration (Indicate One):

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Elevator Offset to Left	Straight Inlet	Elevator Offset to Right



Trough: _____

Screw: _____

Shaft Diameter: _____

Hanger Style: _____

Hanger Bearing: _____

Bottom Bearing: _____

Bottom Seal: _____

Gaskets: _____

Trough: _____

Drive: _____ HP | At _____ RPM

Reducer: _____

Paint: _____

Notes: _____

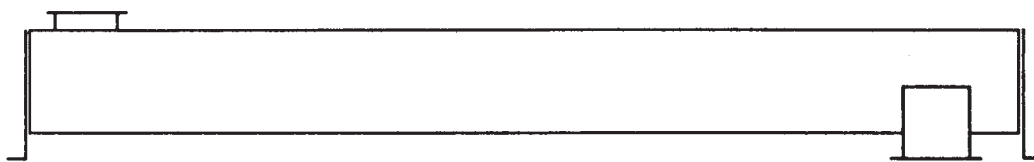
Screw Conveyor Data Sheet



Customer: _____ Date Quote Due: _____
 Address: _____
 Contact: _____ Phone #: _____
 Screw Descri.: _____ Qty.: _____ Dia. x _____ Long (C Inlet to C Disch.)(Overall) Horiz. Incl. _____° Decl. _____°
 Capacity: _____ (CFH)(lb/hr)(TPH)(MTPH)(BPH)
 Material: _____ Density: _____ lb/ft³ Temp: _____ °F Moisture: _____ %
 Lumps: Max Size: _____ in Lump Class: _____ (Lump % of Total; I - 10%, II - 25%, III - 95%)
 Material of Construction: Mild Steel T304 T316 H.D Galv. Other
 Installation: New Replacement Indoors Outdoors
 Is it? Feeder Conveyor Is Feed? Flood Load Uniform
 Fed by: _____ Inlet Size: _____ Discharges to: _____
 Drive: (Direct) (Screw Conveyor Drive) (Other): _____ V-Belt Chain Guard
 Notes _____

Trough: Style: _____ Thk.: _____ Coupl. Bolts: _____
 Discharge: Type: _____ Qty.: _____ Hanger: Style: _____
 Gates: Type: _____ Qty.: _____ Hanger Brg.: Type: _____
 Trough End Type: Tail: _____ Cover: Style: _____ Thk.: _____
 Trough End Type: Head: _____ Cover Fasteners: Type: _____
 Bearing Type: Tail _____ Head.: _____ Inlets: Style: _____ Qty.: _____
 Seal Type: Tail: _____ Head.: _____ Gaskets: Type: _____ Thk.: _____
 Screw: Dia.: _____ (RH)(LH) Pitch _____ Thk. _____ Drive: _____ HP At: _____ RPM
 Motor: _____ Motor Mount: _____
 Reducer: _____
 V-Belt/Chain: _____

Notes _____



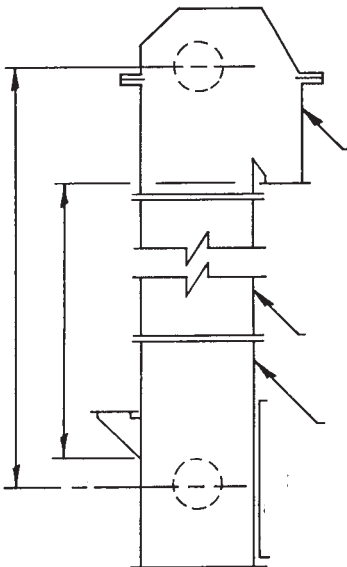
Sketch — (Show feeder inlet size and location, drive location, etc.)

Page _____ of _____ Prepared by _____ Date _____

Customer: _____ Date Quote Due: _____
 Address: _____
 Contact: _____ Phone #: _____
 Bucket Elevator: (CTRS/Lift) _____ Descr.: _____

Capacity: _____ (CFH)(lb/hr)(TPH)(MTPH)(BPH)
 Material: _____ Density: _____ lb/ft³ Temp: _____ °F Moisture: _____ %
 Lumps: Max Size: _____ in Lump Class: _____ (Lump % of Total; I - 10%, II - 25%, III - 95%)
 Fed by: _____ Discharges to: _____
 Material of Construction: Mild Steel T304 T316 H.D Galv. Other
 Installation: New Replacement Indoors Outdoors
 Drive: (Shaft Mount)(Foot Mounted Gear Reducer)(Other): _____ V-Belt Chain Guard

_____ Motor: TEFC X-Proof Other _____ Backstop: Shaft Integral to Reducer Other
 _____ Notes: _____



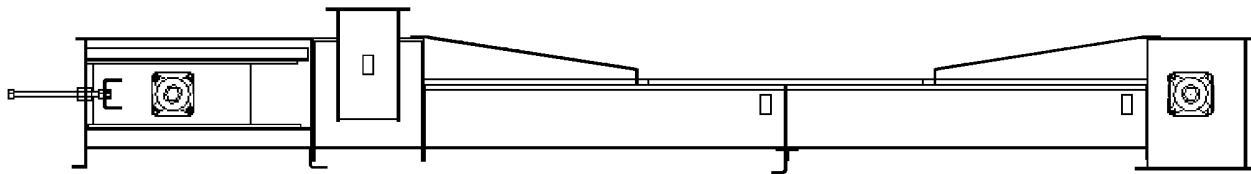
Type: Centrifugal Continuous Grain Type Other _____
 Chain Belt Specs.: _____
 Drive: _____ HP At: _____ RPM Reducer _____
 Sprockets/Sheaves _____ Chain/V-Belts _____
 _____ Backstop _____
 Inlet: Standard Special _____
 Discharge: Standard 45°
 Cage: Yes No Ladder: Length _____
 Head Platform: Standard Size Special _____
 Int. Platform: Standard Size Special _____
 Thickness: Head _____ Boot _____ Int. _____
 Take-up: Head Boot Screw Gravity
 Seals: Standard Special _____ Vents: Size _____ Qty. _____
 Paint: _____

Drag Conveyor Data Sheet



Customer: _____ Date Proposal Due: _____
 Address: _____
 Contact: _____ Phone #: _____
 Length: _____ (C Inlet to C Disch.) Horiz. Incl. _____° Decl. _____°
 Capacity: _____ (CFH)(lb/hr)(TPH)(MTPH)(BPH)
 Material: _____ Density: _____ lb/ft³ Temp: _____ °F Moisture: _____ %
 Lumps: Max Size: _____ in Lump Class: _____ (Lump % of Total; I - 10%, II - 25%, III - 95%)
 Installation: New Replacement Indoors Outdoors
 Material of Construction: Mild Steel T304 T316 H.D Galv. Other
 Is Feed? Flood Load Uniform
 Fed by: _____ Inlet Size: _____ Discharges to: _____
 Drive: (Direct) (Screw Conveyor Drive) (Other): _____ V-Belt Chain Guard
 Notes _____

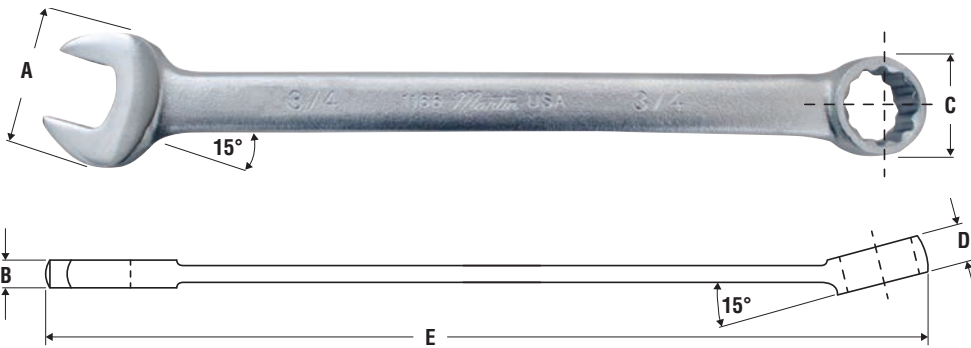
Type: Round Bottom Flat Bottom L-Path STD. Mill Duty
 Drive: _____ HP At: _____ RPM Horizontal C/L to C/L: _____ Discharge HT.: _____
 Discharge: Type: _____ Qty.: _____
 Gates: Type: _____ Qty.: _____ Hanger Brg.: Type: _____
 Sprockets/Chain: Solid Style _____ Split _____ Sheave/V-Belts _____
 Inlet: Standard Bypass
 Take-Up Screw Spring Loaded
 Thickness: Head: _____
 Boot: _____
 Intermediates: _____
 Covers: Flanged Hip Roof
 Paint: _____
 Liners: UHMW Mild Steel AR Steel
 Other Desired Options: _____



INDUSTRIAL HAND TOOLS

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Combination Wrenches



American Alloy Steel
Drop Forged
Long Pattern
15° Angle & 12 Point Box
Versatile, General Purpose
Wrench in a Complete Range
of Openings, 1/4" through 3 1/2"
Chrome and
Industrial Black Finish

Wrench Opening	Open End		Box End		Overall Length	Weight Each (lb)	Part Number		Std. Pkg. Qty.	Wrench Opening
	Diameter	Thickness	Diameter	Thickness			Chrome	Industrial Black		
1/4	19/32	5/32	7/16	7/32	5	.04	1158	BLK1158	6	1/4
5/16	11/16	3/16	33/64	1/4	5-1/2	.05	1159	BLK1159	6	5/16
11/32	11/16	3/16	33/64	1/4	5-1/2	.05	1159A	BLK1159A	6	11/32
3/8	13/16	3/16	19/32	9/32	6	.08	1160	BLK1160	6	3/8
7/16	15/16	7/32	11/16	5/16	6-1/2	.13	1161	BLK1161	6	7/16
1/2	1-1/16	1/4	25/32	11/32	7-1/8	.17	1162	BLK1162	6	1/2
9/16	1-3/16	9/32	55/64	3/8	7-3/4	.25	1163	BLK1163	6	9/16
5/8	1-5/16	9/32	15/16	13/32	8-1/2	.30	1164	BLK1164	6	5/8
11/16	1-7/16	5/16	1-1/32	7/16	9-1/4	.38	1165	BLK1165	6	11/16
3/4	1-9/16	11/32	1-1/8	15/32	10-1/8	.43	1166	BLK1166	6	3/4
13/16	1-11/16	23/64	1-3/64	1/2	11	.55	1167A	BLK1167A	6	13/16
7/8	1-13/16	3/8	1-9/32	17/32	12	.64	1167	BLK1167	6	7/8
15/16	1-15/16	13/32	1-3/8	9/16	13	.77	1168	BLK1168	6	15/16
1	2-1/16	13/32	1-15/32	19/32	14	.92	1170	BLK1170	6	1
1-1/16	2-3/16	7/16	1-9/16	5/8	15	1.07	1171	BLK1171	6	1-1/16
1-1/8	2-5/16	15/32	1-41/64	21/32	16-1/8	1.37	1172	BLK1172	6	1-1/8
1-3/16	2-9/16	1/2	1-13/16	23/32	17-3/16	1.37	1172A	BLK1172A	6	1-3/16
1-1/4	2-9/16	1/2	1-13/16	23/32	17-3/16	1.8	1173	BLK1173	1	1-1/4
1-5/16	2-11/16	17/32	1-7/8	3/4	18	2.1	1174	BLK1174	1	1-5/16
1-3/8	2-13/16	9/16	1-31/32	25/32	18-3/4	2.1	1175	BLK1175	1	1-3/8
1-7/16	2-15/16	19/32	2-1/16	13/16	19-1/2	3.6	1176	BLK1176	1	1-7/16
1-1/2	3-1/16	5/8	2-5/32	27/32	20-1/2	3.4	1177	BLK1177	1	1-1/2
1-9/16	3-5/16	21/32	2-11/32	7/8	21-1/2	3.4	1178A	BLK1178A	1	1-9/16
1-5/8	3-5/16	21/32	2-11/32	7/8	21-1/2	4.5	1180	BLK1180	1	1-5/8
1-11/16	3-7/16	11/16	2-7/16	29/32	22-1/2	4.5	1182	BLK1182	1	1-11/16
1-3/4	3-11/16	23/32	2-5/8	31/32	24	7.1	1184	BLK1184	1	1-3/4
1-13/16	3-11/16	23/32	2-5/8	31/32	24	7.0	1186	BLK1186	1	1-13/16
1-7/8	4-1/16	25/32	2-7/8	1-1/16	25-3/4	6.9	1188	BLK1188	1	1-7/8
1-15/16	4-1/16	25/32	2-7/8	1-1/16	25-3/4	6.8	1189	BLK1189	1	1-15/16
2	4-1/16	25/32	2-7/8	1-1/16	25-3/4	6.8	1190	BLK1190	1	2
2-1/16	4-9/32	13/16	3-1/16	1-1/8	27-1/2	8.3	1191	BLK1191	1	2-1/16
2-1/8	4-9/32	13/16	3-1/16	1-1/8	27-1/2	8.2	1192	BLK1192	1	2-1/8
2-3/16	4-17/32	7/8	3-7/32	1-3/16	29-1/4	7.9	1193	BLK1193	1	2-3/16
2-1/4	4-17/32	7/8	3-7/32	1-3/16	29-1/4	7.7	1194	BLK1194	1	2-1/4
2-3/8	5	31/32	3-17/32	1-5/16	31	12.1	1195	BLK1195	1	2-3/8
2-1/2	5	31/32	3-17/32	1-5/16	31	11.7	1196	BLK1196	1	2-1/2
2-9/16	6-1/2	1-1/8	2-1/2	1-1/2	31-3/4	12.53	1197	BLK1197	1	2-9/16
2-5/8	6-1/2	1-1/8	2-1/2	1-1/2	31-3/4	12.53	1197A	BLK1197A	1	2-5/8
2-3/4	6-1/2	1-1/8	2-1/2	1-1/2	31-3/4	12.53	1197B	BLK1197B	1	2-3/4
2-7/8	6-1/2	1-1/8	2-1/2	1-1/2	31-3/4	12.53	1198	BLK1198	1	2-7/8
2-15/16	6-1/2	1-1/8	2-1/2	1-1/2	31-3/4	12.53	1198A	BLK1198A	1	2-15/16
3	6-1/2	1-1/8	2-1/2	1-1/2	31-3/4	12.53	1198B	BLK1198B	1	3
3-1/8	6-1/2	1-1/8	2-1/2	1-1/2	31-3/4	12.53	1199	BLK1199	1	3-1/8
3-3/8	6-1/2	1-1/8	2-1/2	1-1/2	31-3/4	12.53	1199A	BLK1199A	1	3-3/8
3-1/2	6-1/2	1-1/8	2-1/2	1-1/2	31-3/4	12.53	1199B	BLK1199B	1	3-1/2

Convenient Sets Provide Popular Wrench Sizes Ranging from 3/8" through 2" Openings.

Sets are Available in 4 Sizes: 5, 7, 11 and 14 Wrenches, Packaged in a Handcrafted Fabric and Vinyl Roll Up Kit.

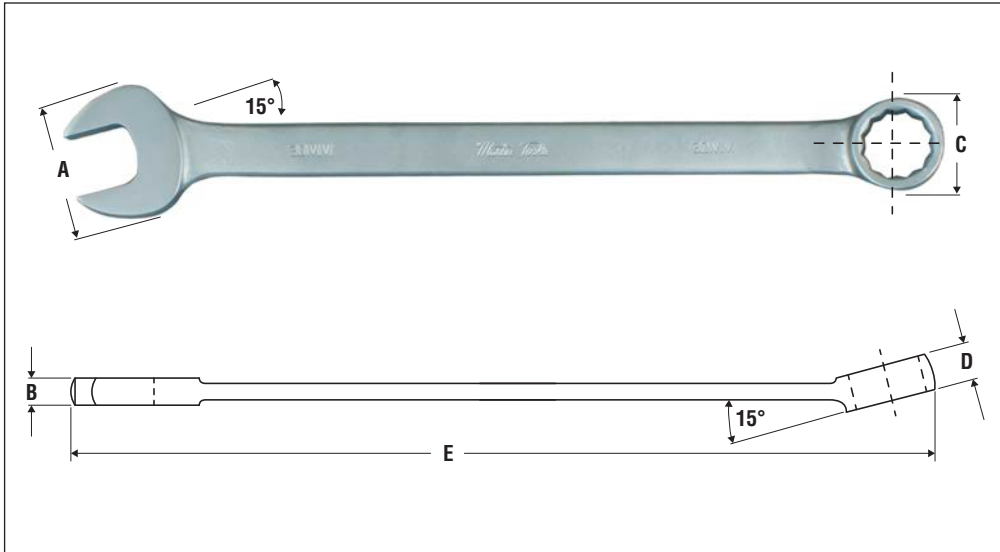
Chrome Sets

C7K		C11K		C14K		HC5K	
OPENING	PART NO.	OPENING	PART NO.	OPENING	PART NO.	OPENING	PART NO.
3/8	1160	3/8	1160	3/8	1160	1-1/4	1173
7/16	1161	7/16	1161	7/16	1161	1-7/16	1176
1/2	1162	1/2	1162	1/2	1162	1-5/8	1180
9/16	1163	9/16	1163	9/16	1163	1-13/16	1186
5/8	1164	5/8	1164	5/8	1164	2	1190
11/16	1165	11/16	1165	11/16	1165	Kit Bag	C55
3/4	1166	3/4	1166	3/4	1166		
Kit Bag	C187	13/16	1167A	13/16	1167A		
		7/8	1167	7/8	1167		
		15/16	1168	15/16	1168		
		1	1170	1	1170		
		Kit Bag	C110	1-1/16	1171		
				1-1/8	1172		
				1-1/4	1173		
				Kit Bag	C140		

Industrial Black Sets

CB7K		CB11K		CB14K		HCB5K	
OPENING	PART NO.	OPENING	PART NO.	OPENING	PART NO.	OPENING	PART NO.
3/8	BLK1160	3/8	BLK1160	3/8	BLK1160	1-1/4	BLK1173
7/16	BLK1161	7/16	BLK1161	7/16	BLK1161	1-7/16	BLK1176
1/2	BLK1162	1/2	BLK1162	1/2	BLK1162	1-5/8	BLK1180
9/16	BLK1163	9/16	BLK1163	9/16	BLK1163	1-13/16	BLK1186
5/8	BLK1164	5/8	BLK1164	5/8	BLK1164	2	BLK1190
11/16	BLK1165	11/16	BLK1165	11/16	BLK1165	Kit Bag	C55
3/4	BLK1166	3/4	BLK1166	3/4	BLK1166		
Kit Bag	C187	13/16	BLK1167A	13/16	BLK1167A		
		7/8	BLK1167	7/8	BLK1167		
		15/16	BLK1168	15/16	BLK1168		
		1	BLK1170	1	BLK1170		
		Kit Bag	C110	1-1/16	BLK1171		
				1-1/8	BLK1172		
				1-1/4	BLK1173		
				Kit Bag	C140		

Combination Wrenches – Metric



American Alloy Steel
Drop Forged
Long Pattern
15° Angle
12 Point Box
Versatile, General Purpose
Wrench in a Complete
Range of Openings, 6 mm
through 60 mm
Chrome and
Industrial Black Finish

Wrench Opening	Open End		Box End		Overall Length E	Weight Each (lb)	Part Number		Std. Pkg. Qty.	Wrench Opening
	Diameter	Thickness	Diameter	Thickness			Chrome	Industrial Black		
	A	B	C	D						
6 mm	15.0 mm	4.1 mm	11.2 mm	5.6 mm	127.0 mm	.04	1106MM	BLK1106MM	6	6 mm
7 mm	15.0 mm	4.1 mm	11.2 mm	5.6 mm	127.0 mm	.05	1107MM	BLK1107MM	6	7 mm
8 mm	17.5 mm	4.8 mm	13.2 mm	6.4 mm	139.7 mm	.05	1108MM	BLK1108MM	6	8 mm
9 mm	20.8 mm	5.6 mm	15.7 mm	7.4 mm	152.4 mm	.08	1109MM	BLK1109MM	6	9 mm
10 mm	24.1 mm	6.4 mm	17.8 mm	8.1 mm	165.1 mm	.13	1110MM	BLK1110MM	6	10 mm
11 mm	24.1 mm	6.4 mm	17.8 mm	8.1 mm	165.1 mm	.13	1111MM	BLK1111MM	6	11 mm
12 mm	26.9 mm	6.9 mm	20.3 mm	9.1 mm	180.8 mm	.17	1112MM	BLK1112MM	6	12 mm
13 mm	26.9 mm	6.9 mm	20.3 mm	9.1 mm	180.8 mm	.17	1113MM	BLK1113MM	6	13 mm
14 mm	30.2 mm	7.6 mm	22.1 mm	9.7 mm	196.9 mm	.25	1114MM	BLK1114MM	6	14 mm
15 mm	33.3 mm	8.1 mm	24.1 mm	10.9 mm	215.9 mm	.30	1115MM	BLK1115MM	6	15 mm
16 mm	33.3 mm	8.1 mm	24.1 mm	10.9 mm	215.9 mm	.30	1116MM	BLK1116MM	6	16 mm
17 mm	38.9 mm	8.9 mm	26.4 mm	11.7 mm	235.0 mm	.38	1117MM	BLK1117MM	6	17 mm
18 mm	38.9 mm	8.9 mm	26.4 mm	11.7 mm	235.0 mm	.38	1118MM	BLK1118MM	6	18 mm
19 mm	39.6 mm	9.4 mm	28.7 mm	12.7 mm	257.0 mm	.43	1119MM	BLK1119MM	6	19 mm
20 mm	42.9 mm	10.2 mm	31.0 mm	13.5 mm	279.4 mm	.55	1120MM	BLK1120MM	6	20 mm
21 mm	42.9 mm	10.2 mm	31.0 mm	13.5 mm	279.4 mm	.55	1121MM	BLK1121MM	6	21 mm
22 mm	46.0 mm	10.7 mm	33.0 mm	14.2 mm	304.8 mm	.64	1122MM	BLK1122MM	6	22 mm
23 mm	49.3 mm	11.4 mm	35.1 mm	15.0 mm	330.2 mm	.77	1123MM	BLK1123MM	6	23 mm
24 mm	49.3 mm	11.4 mm	35.1 mm	15.0 mm	330.2 mm	.77	1124MM	BLK1124MM	6	24 mm
25 mm	52.3 mm	10.4 mm	37.3 mm	15.0 mm	355.6 mm	.92	1125MM	BLK1125MM	6	25 mm
26 mm	55.6 mm	11.2 mm	39.6 mm	15.7 mm	381.0 mm	1.07	1126MM	BLK1126MM	6	26 mm
27 mm	55.6 mm	11.2 mm	39.6 mm	15.7 mm	381.0 mm	1.07	1127MM	BLK1127MM	1	27 mm
28 mm	58.9 mm	13.5 mm	41.7 mm	17.5 mm	409.4 mm	1.40	1128MM	BLK1128MM	1	28 mm
29 mm	58.9 mm	13.5 mm	41.7 mm	17.5 mm	409.4 mm	1.34	1129MM	BLK1129MM	1	29 mm
30 mm	65.5 mm	14.7 mm	46.0 mm	19.1 mm	436.6 mm	1.80	1130MM	BLK1130MM	1	30 mm
32 mm	68.3 mm	13.5 mm	47.8 mm	19.1 mm	457.2 mm	1.80	1132MM	BLK1132MM	1	32 mm
34 mm	71.4 mm	14.2 mm	50.0 mm	19.8 mm	476.3 mm	2.10	1134MM	BLK1134MM	1	34 mm
36 mm	74.7 mm	15.0 mm	52.3 mm	20.6 mm	495.3 mm	3.60	1136MM	BLK1136MM	1	36 mm
41 mm	84.1 mm	16.8 mm	59.4 mm	22.4 mm	546.1 mm	4.50	1141MM	BLK1141MM	1	41 mm
46 mm	93.7 mm	18.3 mm	66.5 mm	24.6 mm	609.6 mm	7.00	1146MM	BLK1146MM	1	46 mm
50 mm	103.1 mm	19.8 mm	73.2 mm	26.9 mm	654.1 mm	6.80	1150MM	BLK1150MM	1	50 mm
55 mm	115.1 mm	22.4 mm	81.8 mm	30.2 mm	743.0 mm	7.90	1155MM	BLK1155MM	1	55 mm
60 mm	127.0 mm	24.6 mm	89.7 mm	33.3 mm	787.4 mm	12.10	1160MM	BLK1160MM	1	60 mm

Convenient Sets Provide Popular Wrench Sizes Ranging from 7 mm through 32 mm Openings.

Sets are Available in 5 Sizes: 7, 9, 11, 15 and 18 Wrenches, Packaged in a Handcrafted Fabric and Vinyl Roll Up Kit.

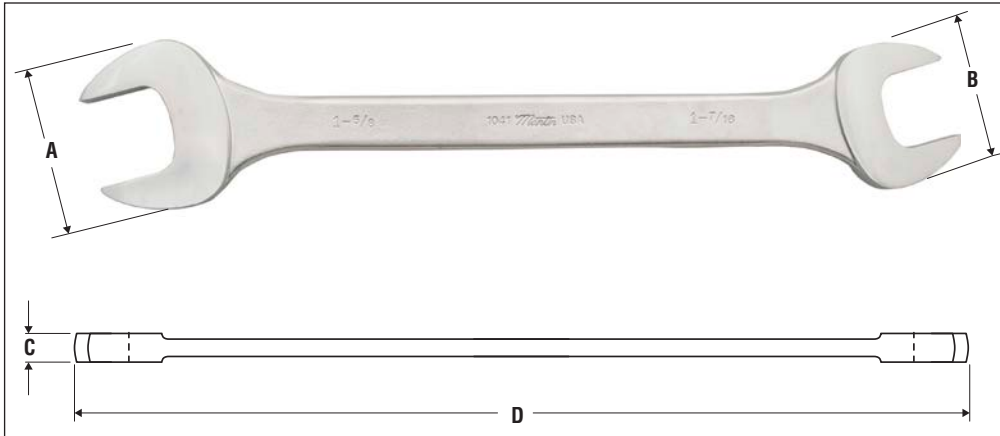
Chrome Sets

C7KM		C9KM		C11KM		C15KM		C18KM	
OPENING	PART NO.	OPENING	PART NO.	OPENING	PART NO.	OPENING	PART NO.	OPENING	PART NO.
11 mm	1111MM	7 mm	1107MM	7 mm	1107MM	7 mm	1107MM	7 mm	1107MM
12 mm	1112MM	8 mm	1108MM	8 mm	1108MM	8 mm	1108MM	8 mm	1108MM
13 mm	1113MM	9 mm	1109MM	9 mm	1109MM	10 mm	1110MM	9 mm	1109MM
14 mm	1114MM	10 mm	1110MM	10 mm	1110MM	12 mm	1112MM	10 mm	1110MM
16 mm	1116MM	11 mm	1111MM	11 mm	1111MM	14 mm	1114MM	11 mm	1111MM
17 mm	1117MM	12 mm	1112MM	12 mm	1112MM	16 mm	1116MM	12 mm	1112MM
19 mm	1119MM	13 mm	1113MM	13 mm	1113MM	18 mm	1118MM	13 mm	1113MM
KIT BAG	C187	14 mm	1114MM	14 mm	1114MM	20 mm	1120MM	14 mm	1114MM
		15 mm	1115MM	15 mm	1115MM	22 mm	1122MM	15 mm	1115MM
		KIT BAG	C90	16 mm	1116MM	24 mm	1124MM	16 mm	1116MM
				17 mm	1117MM	26 mm	1126MM	17 mm	1117MM
				KIT BAG	C111	28 mm	1128MM	18 mm	1118MM
						29 mm	1129MM	19 mm	1119MM
						30 mm	1130MM	20 mm	1120MM
						32 mm	1132MM	21 mm	1121MM
						KIT BAG	C150	22 mm	1122MM
								23 mm	1123MM
								24 mm	1124MM
								KIT BAG	C180

Industrial Black Set

CB7KM		CB9KM		CB11KM		CB15KM		CB18KM	
OPENING	PART NO.	OPENING	PART NO.	OPENING	PART NO.	OPENING	PART NO.	OPENING	PART NO.
11 mm	BLK1111MM	7 mm	BLK1107MM	7 mm	BLK1107MM	7 mm	BLK1107MM	7 mm	BLK1107MM
12 mm	BLK1112MM	8 mm	BLK1108MM	8 mm	BLK1108MM	8 mm	BLK1108MM	8 mm	BLK1108MM
13 mm	BLK1113MM	9 mm	BLK1109MM	9 mm	BLK1109MM	10 mm	BLK1110MM	9 mm	BLK1109MM
14 mm	BLK1114MM	10 mm	BLK1110MM	10 mm	BLK1110MM	12 mm	BLK1112MM	10 mm	BLK1110MM
16 mm	BLK1116MM	11 mm	BLK1111MM	11 mm	BLK1111MM	14 mm	BLK1114MM	11 mm	BLK1111MM
17 mm	BLK1117MM	12 mm	BLK1112MM	12 mm	BLK1112MM	16 mm	BLK1116MM	12 mm	BLK1112MM
19 mm	BLK1119MM	13 mm	BLK1113MM	13 mm	BLK1113MM	18 mm	BLK1118MM	13 mm	BLK1113MM
Kit Bag	C187	14 mm	BLK1114MM	14 mm	BLK1114MM	20 mm	BLK1120MM	14 mm	BLK1114MM
		15 mm	BLK1115MM	15 mm	BLK1115MM	22 mm	BLK1122MM	15 mm	BLK1115MM
		Kit Bag	C90	16 mm	BLK1116MM	24 mm	BLK1124MM	16 mm	BLK1116MM
				17 mm	BLK1117MM	26 mm	BLK1126MM	17 mm	BLK1117MM
				Kit Bag	C111	28 mm	BLK1128MM	18 mm	BLK1118MM
						29 mm	BLK1129MM	19 mm	BLK1119MM
						30 mm	BLK1130MM	20 mm	BLK1120MM
						32 mm	BLK1132MM	21 mm	BLK1121MM
						Kit Bag	C150	22 mm	BLK1122MM
								23 mm	BLK1123MM
								24 mm	BLK1124MM
								Kit Bag	C180

Double Head Open End Wrenches



American Alloy Steel
Drop Forged
15° Angle
Comfortable Grip
Chrome and Industrial Black

Wrench Opening	Diameter of Head A × B	Thickness of Head C	Length D	Weight Each (lb)	Chrome	Std. Pkg. Qty.	Industrial Black	Std. Pkg. Qty.	Wrench Opening
					Part Number		Part Number		
1/4 × 5/16	11/16 × 13/16	3/16	4	.03	1020	6	BLK1020	6	1/4 × 5/16
5/16 × 11/32	11/16 × 13/16	3/16	4	.04	1720	6	BLK1720	6	5/16 × 11/32
5/16 × 3/8	11/16 × 13/16	3/16	4	.04	1721	6	BLK1721	6	5/16 × 3/8
5/16 × 13/32	11/16 × 13/16	3/16	4	.04	1021	6	BLK1021	6	5/16 × 13/32
3/8 × 7/16	3/4 × 29/32	13/64	4-7/8	.06	1723	6	BLK1723	6	3/8 × 7/16
3/8 × 1/2	3/4 × 29/32	13/64	4-7/8	.06	1723A	6	BLK1723A	6	3/8 × 1/2
7/16 × 1/2	29/32 × 1-1/8	1/4	5-1/2	.13	1725	6	BLK1725	6	7/16 × 1/2
7/16 × 9/16	29/32 × 1-1/8	1/4	5-1/2	.13	1725A	6	BLK1725A	6	7/16 × 9/16
1/2 × 9/16	1-1/16 × 1-1/8	1/4	6-1/8	.19	1725B	6	BLK1725B	6	1/2 × 9/16
1/2 × 5/8	1-1/4 × 1-3/8	1/4	6-1/8	.19	1726	6	BLK1726	6	1/2 × 5/8
9/16 × 5/8	1-1/8 × 1-1/4	17/64	6-3/4	.20	1727	6	BLK1727	6	9/16 × 5/8
9/16 × 11/16	1-3/16 × 1-7/16	19/64	7-1/2	.27	1027C	6	BLK1027C	6	9/16 × 11/16
19/32 × 11/16	1-3/16 × 1-7/16	19/64	7-1/2	.27	1027	6	BLK1027	6	19/32 × 11/16
5/8 × 11/16	1-3/16 × 1-7/16	19/64	7-1/2	.27	1027B	6	BLK1027B	6	5/8 × 11/16
9/16 × 3/4	1-5/16 × 1-7/16	19/64	7-1/2	.27	1728	6	BLK1728	6	9/16 × 3/4
5/8 × 3/4	1-5/16 × 1-5/8	5/16	8-1/2	.41	1729	6	BLK1729	6	5/8 × 3/4
11/16 × 3/4	1-5/16 × 1-5/8	5/16	8-1/2	.41	1029B	6	BLK1029B	6	11/16 × 3/4
11/16 × 25/32	1-5/16 × 1-5/8	5/16	8-1/2	.41	1029	6	BLK1029	6	11/16 × 25/32
11/16 × 13/16	1-5/16 × 1-5/8	5/16	8-1/2	.40	1029C	6	BLK1029C	6	11/16 × 13/16
11/16 × 7/8	1-5/16 × 1-5/8	5/16	8-1/2	.40	1030	6	BLK1030	6	11/16 × 7/8
3/4 × 13/16	1-5/8 × 1-3/4	11/32	9-5/8	.50	1731	6	BLK1731	6	3/4 × 13/16
3/4 × 7/8	1-5/8 × 1-3/4	11/32	9-5/8	.50	1731A	6	BLK1731A	6	3/4 × 7/8
13/16 × 7/8	1-5/8 × 1-3/4	11/32	9-5/8	.50	1731B	6	BLK1731B	6	13/16 × 7/8
7/8 × 15/16	1-13/16 × 1-15/16	3/8	10-1/2	.75	1033A	6	BLK1033A	6	7/8 × 15/16
7/8 × 1	1-13/16 × 1-15/16	3/8	10-1/2	.72	1733	6	BLK1733	6	7/8 × 1
15/16 × 1	1-7/8 × 2-1/8	7/16	11-1/2	1.05	1033C	6	BLK1033C	6	15/16 × 1
7/8 × 1-1/16	1-7/8 × 2-1/8	7/16	11-1/2	1.03	1034	6	BLK1034	6	7/8 × 1-1/16
15/16 × 1-1/16	1-7/8 × 2-1/8	7/16	11-1/2	1.01	1034A	6	BLK1034A	6	15/16 × 1-1/16
1 × 1-1/8	2-1/8 × 2-1/4	7/16	12-1/2	1.18	1735	6	BLK1735	6	1 × 1-1/8
1-1/16 × 1-1/8	2-1/8 × 2-1/4	7/16	12-1/2	1.16	1036B	6	BLK1036B	6	1-1/16 × 1-1/8
1-1/16 × 1-1/4	2-1/4 × 2-5/8	1/2	13-1/2	1.6	1037	6	BLK1037	6	1-1/16 × 1-1/4
1-1/8 × 1-1/4	2-1/4 × 2-5/8	1/2	13-1/2	1.6	1737	6	BLK1737	6	1-1/8 × 1-1/4
1-1/8 × 1-5/16	2-1/4 × 2-5/8	1/2	13-1/2	1.6	1037A	6	BLK1037A	6	1-1/8 × 1-5/16
1-1/4 × 1-5/16	2-3/4 × 2-7/8	9/16	15-1/4	2.1	1039B	6	BLK1039B	1	1-1/4 × 1-5/16
1-1/4 × 1-7/16	2-3/4 × 2-7/8	9/16	15-1/4	2.1	1039	6	BLK1039	1	1-1/4 × 1-7/16
1-5/16 × 1-1/2	2-3/4 × 2-7/8	9/16	15-1/4	2.1	1039A	6	BLK1039A	1	1-5/16 × 1-1/2
1-3/8 × 1-7/16	2-3/4 × 2-7/8	9/16	15-1/4	2.0	1039C	6	BLK1039C	1	1-3/8 × 1-7/16
1-1/4 × 1-5/8	2-3/4 × 2-7/8	9/16	15-1/4	2.0	1040	6	BLK1040	1	1-1/4 × 1-5/8
1-7/16 × 1-5/8	2-3/4 × 3-1/4	5/8	17	3.1	1041	1	BLK1041	1	1-7/16 × 1-5/8
1-1/2 × 1-5/8	2-3/4 × 3-1/4	5/8	17	3.1	1041B	1	BLK1041B	1	1-1/2 × 1-5/8
1-11/16 × 1-7/8	3-3/4 × 4-1/8	7/8	19-1/2	7.2	—	—	BLK44A	1	1-11/16 × 1-7/8
1-13/16 × 2	3-3/4 × 41/8	7/8	19-1/2	6.9	—	—	BLK45	1	1-13/16 × 2
2-3/16 × 2-3/8	4-13/16 × 4-7/8	1-1/8	23	11.8	—	—	BLK49	1	2-3/16 × 2-3/8
2-1/4 × 2-7/16	4-13/16 × 4-7/8	1-1/8	23	11.7	—	—	BLK49A	1	2-1/4 × 2-7/16



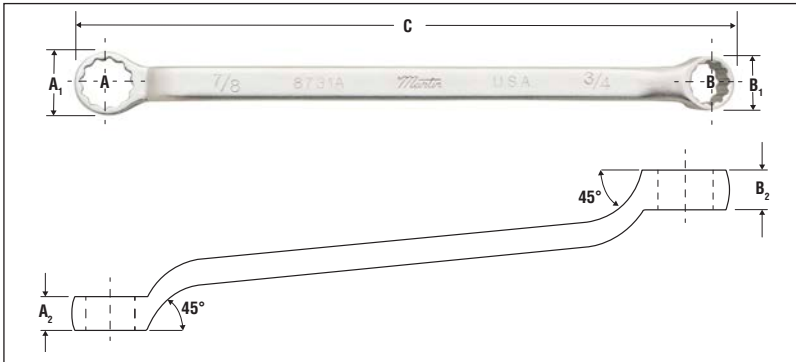
Double Head Open End Wrench Sets

6 Sets of Popular Sizes Provide a Wide Range of Openings in Chrome or Industrial Black Finish.

Chrome Sets					
OE6K		OE8K		OE11K	
OPENING	PART NO.	OPENING	PART NO.	OPENING	PART NO.
3/8 x 7/16	1723	1/4 x 5/16	1020	1/4 x 5/16	1020
1/2 x 9/16	1725B	3/8 x 7/16	1723	5/16 x 3/8	1721
5/8 x 11/16	1027B	1/2 x 9/16	1725B	3/8 x 7/16	1723
3/4 x 13/16	1731	5/8 x 11/16	1027B	7/16 x 1/2	1725
7/8 x 15/16	1033A	3/4 x 13/16	1731	1/2 x 9/16	1725B
1 x 1-1/8	1735	7/8 x 15/16	1033A	9/16 x 5/8	1727
Kit Bag	C60B	1 x 1-1/8	1735	5/8 x 11/16	1027B
		1-1/16 x 1-1/4	1037	3/4 x 13/16	1731
		Kit Bag	C81	7/8 x 15/16	1033A
				1 x 1-1/8	1735
				1-1/16 x 1-1/4	1037
				Kit Bag	C110

Industrial Black Sets					
BOE6K		BOE8K		BOE11K	
OPENING	PART NO.	OPENING	PART NO.	OPENING	PART NO.
3/8 x 7/16	BLK1723	1/4 x 5/16	BLK-1020	1/4 x 5/16	BLK-1020
1/2 x 9/16	BLK1725B	3/8 x 7/16	BLK1723	5/16 x 3/8	BLK1721
5/8 x 11/16	BLK1027B	1/2 x 9/16	BLK1725B	3/8 x 7/16	BLK1723
3/4 x 13/16	BLK1731	5/8 x 11/16	BLK1027B	7/16 x 1/2	BLK1725
7/8 x 15/16	BLK1033A	3/4 x 13/16	BLK1731	1/2 x 9/16	BLK1725B
1 x 1-1/8	BLK1735	7/8 x 15/16	BLK1033A	9/16 x 5/8	BLK1727
Kit Bag	C60B	1 x 1-1/8	BLK1735	5/8 x 11/16	BLK1027B
		1-1/16 x 1-1/4	BLK1037	3/4 x 13/16	BLK1731
		Kit Bag	C81	7/8 x 15/16	BLK1033A
				1 x 1-1/8	BLK1735
				1-1/16 x 1-1/4	BLK1037
				Kit Bag	C110

Double Offset Box Wrenches



American Alloy Steel

Drop Forged

12 Point Box

Double Offset 45° for Obstruction Clearance

Different Opening in Each End

Short Pattern

Wrench Opening A × B	Diameter of Head		Thickness of Head		Length C	Weight Each (lb)	Part Number		Std. Pkg. Qty.	Wrench Opening A × B
	A ₁	B ₁	A ₂	B ₂			Chrome	Industrial Black		
5/16 × 3/8	15/32	35/64	7/32	1/4	41/4	.06	9721	BLK9721	6	5/16 × 3/8
3/8 × 7/16	17/32	5/8	17/64	5/16	45/8	.08	9723	BLK9723	6	3/8 × 7/16
7/16 × 1/2	5/8	23/32	5/16	11/32	51/16	.10	9725	BLK9725	6	7/16 × 1/2
1/2 × 9/16	23/32	13/16	11/32	3/8	51/2	.13	9725B	BLK9725B	6	1/2 × 9/16
9/16 × 5/8	13/16	7/8	3/8	7/16	515/16	.19	9727	BLK9727	6	9/16 × 5/8
5/8 × 11/16	7/8	11/32	7/16	15/32	61/2	.26	9727A	BLK9727A	6	5/8 × 11/16
5/8 × 3/4	7/8	11/32	7/16	15/32	61/2	.25	9729	BLK9729	6	5/8 × 3/4

Long Pattern – SAE & Metric

Wrench Opening A × B	Diameter of Head		Thickness of Head		Length C	Weight Each (lb)	Part Number		Std. Pkg. Qty.	Wrench Opening A × B
	A ₁	B ₁	A ₂	B ₂			Chrome	Industrial Black		
3/8 × 7/16	17/32	19/32	9/32	9/32	6-15/32	.15	8723	BLK8723	6	3/8 × 7/16
7/16 × 1/2	5/8	11/16	5/16	5/16	7-3/4	.16	8725	BLK8725	6	7/16 × 1/2
1/2 × 9/16	11/16	13/16	3/8	3/8	8-5/8	.25	8725B	BLK8725B	6	1/2 × 9/16
9/16 × 5/8	25/32	7/8	3/8	3/8	9-1/2	.34	8727	BLK8727	6	9/16 × 5/8
5/8 × 11/16	7/8	31/32	13/32	13/32	10-5/16	.37	8727A	BLK8727A	6	5/8 × 11/16
5/8 × 3/4	7/8	1-1/32	29/64	29/64	11-3/16	.43	8729	BLK8729	6	5/8 × 3/4
11/16 × 3/4	1-1/32	1-5/32	15/32	15/32	11-7/8	.56	8029B	BLK8029B	6	11/16 × 3/4
3/4 × 7/8	1-1/32	1-3/16	1/2	1/2	12-9/16	.68	8731A	BLK8731A	6	3/4 × 7/8
13/16 × 7/8	1-5/32	1-7/32	17/32	17/32	13-5/16	.74	8731B	BLK8731B	6	13/16 × 7/8
7/8 × 15/16	1-5/16	1-13/32	9/16	9/16	14-1/16	1.0	8033A	BLK8033A	6	7/8 × 15/16
15/16 × 1	1-5/16	1-13/32	9/16	9/16	14-1/16	1.0	8033C	BLK8033C	6	15/16 × 1
1 × 1-1/8	1-13/32	1-17/32	21/32	21/32	15-3/16	1.4	8735	BLK8735	6	1 × 1-1/8
1-1/16 × 1-1/8	1-13/32	1-17/32	21/32	21/32	15-3/16	1.4	8735A	BLK8735A	6	1-1/16 × 1-1/8
1-1/16 × 1-1/4	1-9/16	1-13/16	11/16	11/16	17-3/16	1.8	8037	BLK8037	1	1-1/16 × 1-1/4
1-1/8 × 1-5/16	1-9/16	1-13/16	11/16	11/16	17-3/16	1.8	8037A	BLK8037A	1	1-1/8 × 1-5/16
1-1/4 × 1-5/16	1-7/8	2-1/16	3/4	3/4	18-3/8	2.4	8039B	BLK8039B	1	1-1/4 × 1-5/16
1-1/4 × 1-7/16	1-7/8	2-1/16	3/4	3/4	18-3/8	2.4	8039	BLK8039	1	1-1/4 × 1-7/16
1-5/16 × 1-1/2	2	2-1/16	25/32	13/16	20-1/16	2.8	8040A	BLK8040A	1	1-5/16 × 1-1/2
1-3/8 × 1-7/16	2	2-1/16	25/32	13/16	20-1/16	2.8	8040C	BLK8040C	1	1-3/8 × 1-7/16
1-3/8 × 1-1/2	2	2-1/16	25/32	13/16	20-1/16	2.8	8040	BLK8040	1	1-3/8 × 1-1/2
1-7/16 × 1-1/2	2	2-1/16	25/32	13/16	20-1/16	2.8	8040B	BLK8040B	1	1-7/16 × 1-1/2
10 mm x 11 mm	17.5 mm	20.5 mm	9.5 mm	9.5 mm	219.0 mm	0.25	8011MM	—	6	10 mm x 11 mm
12 mm x 13 mm	20.0 mm	22.0 mm	9.5 mm	9.5 mm	241.5 mm	0.34	8013MM	—	6	12 mm x 13 mm
14 mm x 15 mm	22.0 mm	24.5 mm	10.5 mm	10.5 mm	262.0 mm	0.37	8015MM	—	6	14 mm x 15 mm
16 mm x 18 mm	22.0 mm	26.0 mm	11.5 mm	11.5 mm	284.0 mm	0.43	8018MM	—	6	16 mm x 18 mm
17 mm x 19 mm	26.0 mm	29.5 mm	12.0 mm	12.0 mm	301.5 mm	0.56	8019MM	—	6	17 mm x 19 mm
20 mm x 22 mm	26.0 mm	30.0 mm	12.5 mm	12.5 mm	319.0 mm	0.68	8022MM	—	6	20 mm x 22 mm
21 mm x 23 mm	33.5 mm	35.5 mm	14.5 mm	14.5 mm	357.0 mm	1.0	8023MM	—	6	21 mm x 23 mm
30 mm x 32 mm	47.5 mm	52.5 mm	19.0 mm	19.0 mm	466.5 mm	2.4	8032MM	—	1	30 mm x 32 mm

Chrome Sets

B06K



B011K



B05KM



OPENING	PART NO.	OPENING	PART NO.	OPENING	PART NO.
3/8 x 7/16	8723	3/8 x 7/16	8723	10 mm x 11 mm	8011MM
7/16 x 1/2	8725	7/16 x 1/2	8725	12 mm x 13 mm	8013MM
1/2 x 9/16	8725B	1/2 x 9/16	8725B	14 mm x 15 mm	8015MM
9/16 x 5/8	8727	9/16 x 5/8	8727	16 mm x 18 mm	8018MM
11/16 x 3/4	8029B	5/8 x 11/16	8727A	17 mm x 19 mm	8019MM
13/16 x 7/8	8731B	11/16 x 3/4	8029B	Kit Bag	C60B
Kit Bag	C60B	13/16 x 7/8	8731B		
		15/16 x 1	8033C		
		1-1/16 x 1-1/8	8735A		
		1-1/16 x 1-1/4	8037		
		1-1/4 x 1-5/16	8039B		
		Kit Bag	C110		

Industrial Black Sets

BBO6K



BBO11K



OPENING	PART NO.	OPENING	PART NO.
3/8 x 7/16	BLK8723	3/8 x 7/16	BLK8723
7/16 x 1/2	BLK8725	7/16 x 1/2	BLK8725
1/2 x 9/16	BLK8725B	1/2 x 9/16	BLK8725B
9/16 x 5/8	BLK8727	9/16 x 5/8	BLK8727
11/16 x 3/4	BLK8029B	5/8 x 11/16	BLK8727A
13/16 x 7/8	BLK8731B	11/16 x 3/4	BLK8029B
Kit Bag	C60B	13/16 x 7/8	BLK8731B
		15/16 x 1	BLK8033C
		1-1/16 x 1-1/8	BLK8735A
		1-1/16 x 1-1/4	BLK8037
		1-1/4 x 1-5/16	BLK8039B
		Kit Bag	C110

Hydraulic Wrenches Angle Openings SAE & Metric



American Alloy Steel
Drop Forged
Permits Work in Extremely Tight Clearance
Thin Head
Same Opening Each End

Wrench Opening	Diameter of Head		Length C	Weight Each (lb)	Part Number		Std. Pkg. Qty.	Wrench Opening
	A	B			Chrome	Industrial Black		
11/32 x 11/32	25/32	7/32	4-3/4	.07	3710A	BLK3710A	6	11/32 x 11/32
3/8 x 3/8	25/32	7/32	4-3/4	.07	3710	BLK3710	6	3/8 x 3/8
7/16 x 7/16	7/8	7/32	5	.08	3711	BLK3711	6	7/16 x 7/16
1/2 x 1/2	1	7/32	5-1/2	.10	3712	BLK3712	6	1/2 x 1/2
9/16 x 9/16	1-1/8	1/4	6	.12	3713	BLK3713	6	9/16 x 9/16
5/8 x 5/8	1-3/16	9/32	6-1/4	.18	3714	BLK3714	6	5/8 x 5/8
11/16 x 11/16	1-5/16	9/32	7	.22	3715	BLK3715	6	11/16 x 11/16
3/4 x 3/4	1-7/16	9/32	7-1/4	.24	3716	BLK3716	6	3/4 x 3/4
13/16 x 13/16	1-19/32	9/32	7-1/2	.29	3717	BLK3717	6	13/16 x 13/16
7/8 x 7/8	1-11/16	9/32	8-1/4	.35	3718	BLK3718	6	7/8 x 7/8
15/16 x 15/16	1-13/16	1/4	9	.38	3719	BLK3719	6	15/16 x 15/16
1 x 1	1-15/16	5/16	9-3/4	.52	3720	BLK3720	6	1 x 1
1-1/16 x 1-1/16	2-1/16	5/16	10	.60	3721	BLK3721	6	1-1/16 x 1-1/16
1-1/8 x 1-1/8	2-1/4	5/16	11	.75	3722	BLK3722	6	1-1/8 x 1-1/8
1-3/16 x 1-3/16	2-1/4	5/16	11	.74	3722A	BLK3722A	6	1-3/16 x 1-3/16
1-1/4 x 1-1/4	2-3/8	11/32	11-1/2	.83	3723	BLK3723	6	1-1/4 x 1-1/4
1-3/8 x 1-3/8	2-21/32	13/32	12-1/2	1.2	3724	BLK3724	6	1-3/8 x 1-3/8
1-7/16 x 1-7/16	2-21/32	13/32	12-1/2	1.2	3725	BLK3725	6	1-7/16 x 1-7/16
1-1/2 x 1-1/2	2-21/32	13/32	12-1/2	1.2	3726	BLK3726	6	1-1/2 x 1-1/2
1-5/8 x 1-5/8	3-3/16	15/32	15-3/4	3.0	3727	BLK3727	1	1-5/8 x 1-5/8
1-11/16 x 1-11/16	3-5/16	1/2	16-1/2	3.4	3728	BLK3728	1	1-11/16 x 1-11/16
1-3/4 x 1-3/4	3-7/16	17/32	17	3.8	3729	BLK3729	1	1-3/4 x 1-3/4
1-13/16 x 1-13/16	3-9/16	17/32	17-3/4	4.5	3730	BLK3730	1	1-13/16 x 1-13/16
1-7/8 x 1-7/8	3-11/16	9/16	18-1/2	5.2	3731	BLK3731	1	1-7/8 x 1-7/8
2 x 2	3-15/16	19/32	19-1/4	5.9	3732	BLK3732	1	2 x 2

Wrench Opening	Diameter of Head		Length C	Weight Each (lb)	Part Number Chrome	Std. Pkg. Qty.	Wrench Opening
	A	B					
9 mm	19.8 mm	5.6 mm	120.7 mm	.07	3709 MM	6	9 mm
10 mm	19.8 mm	5.6 mm	120.7 mm	.07	3710 MM	6	10 mm
11 mm	22.4 mm	5.6 mm	127.0 mm	.08	3711 MM	6	11 mm
12 mm	22.4 mm	5.6 mm	127.0 mm	.08	3712 MM	6	12 mm
13 mm	25.4 mm	5.6 mm	139.7 mm	.10	3713 MM	6	13 mm
14 mm	28.4 mm	6.4 mm	152.4 mm	.12	3714 MM	6	14 mm
15 mm	28.4 mm	6.4 mm	152.4 mm	.12	3715 MM	6	15 mm
16 mm	30.2 mm	7.1 mm	158.8 mm	.18	3716 MM	6	16 mm
17 mm	30.2 mm	7.1 mm	158.8 mm	.18	3717 MM	6	17 mm
18 mm	33.3 mm	7.1 mm	177.8 mm	.22	3718 MM	6	18 mm
19 mm	36.6 mm	7.1 mm	184.2 mm	.24	3719 MM	6	19 mm
20 mm	36.6 mm	7.1 mm	184.2 mm	.24	3720 MM	6	20 mm
21 mm	40.4 mm	7.1 mm	190.5 mm	.29	3721 MM	6	21 mm
22 mm	40.4 mm	7.1 mm	190.5 mm	.29	3722 MM	6	22 mm
23 mm	42.9 mm	7.1 mm	209.6 mm	.35	3723 MM	6	23 mm
24 mm	46.0 mm	7.1 mm	228.6 mm	.38	3724 MM	6	24 mm
27 mm	52.3 mm	7.9 mm	254.0 mm	.52	3727 MM	6	27 mm
30 mm	57.2 mm	7.9 mm	279.4 mm	.60	3730 MM	6	30 mm
32 mm	60.5 mm	8.6 mm	292.1 mm	.83	3732 MM	6	32 mm
34 mm	67.6 mm	10.4 mm	317.5 mm	1.2	3734 MM	6	34 mm
36 mm	67.6 mm	10.4 mm	317.5 mm	1.2	3736 MM	6	36 mm



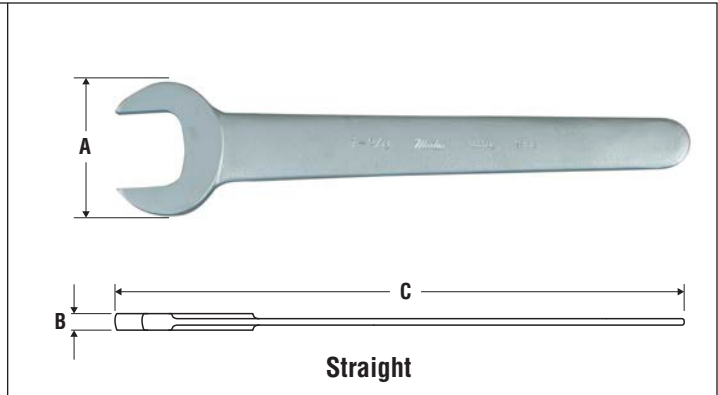
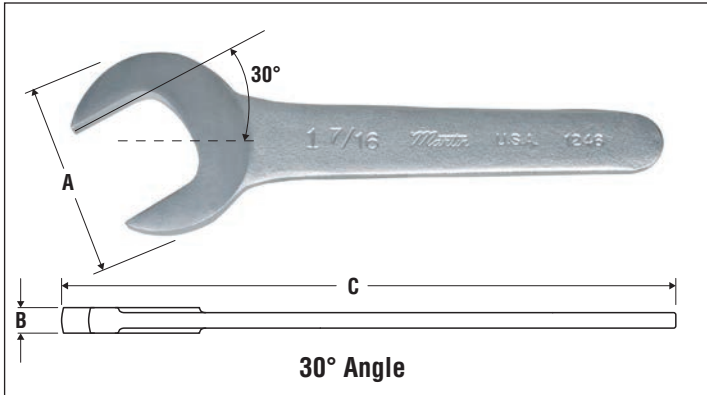
Hydraulic Wrench Sets Angle Openings SAE & Metric

Convenient Angle Wrench Sets Keep Popular Sizes in Handy, Easy to Carry Roll Bags.
8 Sets Provide the Full Range of Openings in Chrome or Industrial Black Finish.

Chrome Sets									
OB7K		OB11K		OB15K		OB18K			
OPENING	PART NO.	OPENING	PART NO.	OPENING	PART NO.	OPENING	PART NO.	OPENING	PART NO.
OB7K		OB11K		OB15K		OB15KM		OB18K	
3/8 x 3/8	3710	3/8 x 3/8	3710	3/8 x 3/8	3710	10mm	3710MM	11/32 x 11/32	3710A
7/16 x 7/16	3711	7/16 x 7/16	3711	7/16 x 7/16	3711	11mm	3711MM	3/8 x 3/8	3710
1/2 x 1/2	3712	1/2 x 1/2	3712	1/2 x 1/2	3712	12mm	3712MM	7/16 x 7/16	3711
9/16 x 9/16	3713	9/16 x 9/16	3713	9/16 x 9/16	3713	13mm	3713MM	1/2 x 1/2	3712
5/8 x 5/8	3714	5/8 x 5/8	3714	5/8 x 5/8	3714	14mm	3714MM	9/16 x 9/16	3713
11/16 x 11/16	3715	11/16 x 11/16	3715	11/16 x 11/16	3715	15mm	3715MM	5/8 x 5/8	3714
3/4 x 3/4	3716	3/4 x 3/4	3716	3/4 x 3/4	3716	16mm	3716MM	11/16 x 11/16	3715
Kit Bag	C70	13/16 x 13/16	3717	13/16 x 13/16	3717	17mm	3717MM	3/4 x 3/4	3716
		7/8 x 7/8	3718	7/8 x 7/8	3718	18mm	3718MM	13/16 x 13/16	3717
OB7KM		15/16 x 15/16	3719	15/16 x 15/16	3719	19mm	3719MM	7/8 x 7/8	3718
10mm	3710MM	1 x 1	3720	1 x 1	3720	21mm	3721MM	15/16 x 15/16	3719
11mm	3711MM	Kit Bag	C111	1-1/16 x 1-1/16	3721	22mm	3722MM	1 x 1	3720
12mm	3712MM			1-1/8 x 1-1/8	3722	24mm	3724MM	1-1/16 x 1-1/16	3721
13mm	3713MM			1-3/16 x 1-3/16	3722	27mm	3727MM	1-1/8 x 1-1/8	3722
14mm	3714MM			1-1/4 x 1-1/4	3723	30mm	3730MM	1-1/4 x 1-1/4	3723
15mm	3715MM			Kit Bag	C180	Kit Bag	C180	1-3/8 x 1-3/8	3724
16mm	3716MM							1-7/16 x 1-7/16	3725
Kit Bag	C70							1-1/2 x 1-1/2	3726
								Kit Bag	C180

Industrial Black Set							
BOB7K		BOB11K		BOB15K		BOB18K	
OPENING	PART NO.	OPENING	PART NO.	OPENING	PART NO.	OPENING	PART NO.
3/8 x 3/8	BLK3710	3/8 x 3/8	BLK3710	3/8 x 3/8	BLK3710	11/32 x 11/32	BLK3710A
7/16 x 7/16	BLK3711	7/16 x 7/16	BLK3711	7/16 x 7/16	BLK3711	3/8 x 3/8	BLK3710
1/2 x 1/2	BLK3712	1/2 x 1/2	BLK3712	1/2 x 1/2	BLK3712	7/16 x 7/16	BLK3711
9/16 x 9/16	BLK3713	9/16 x 9/16	BLK3713	9/16 x 9/16	BLK3713	1/2 x 1/2	BLK3712
5/8 x 5/8	BLK3714	5/8 x 5/8	BLK3714	5/8 x 5/8	BLK3714	9/16 x 9/16	BLK3713
11/16 x 11/16	BLK3715	11/16 x 11/16	BLK3715	11/16 x 11/16	BLK3715	5/8 x 5/8	BLK3714
3/4 x 3/4	BLK3716	3/4 x 3/4	BLK3716	3/4 x 3/4	BLK3716	11/16 x 11/16	BLK3715
Kit Bag	C70	13/16 x 13/16	BLK3717	13/16 x 13/16	BLK3717	3/4 x 3/4	BLK3716
		7/8 x 7/8	BLK3718	7/8 x 7/8	BLK3718	13/16 x 13/16	BLK3717
		15/16 x 15/16	BLK3719	15/16 x 15/16	BLK3719	7/8 x 7/8	BLK3718
		1 x 1	BLK3720	1 x 1	BLK3720	15/16 x 15/16	BLK3719
		Kit Bag	C111	11/16 x 11/16	BLK3721	1 x 1	BLK3720
				11/8 x 11/8	BLK3722	11/16 x 11/16	BLK3721
				13/16 x 13/16	BLK3722A	11/8 x 11/8	BLK3722
				11/4 x 11/4	BLK3723	11/4 x 11/4	BLK3723
				Kit Bag	C180	13/8 x 13/8	BLK3724
						17/16 x 17/16	BLK3725
						11/2 x 11/2	BLK3726
						Kit Bag	C180

Service Wrenches – SAE & Metric



30° Angle Service Wrenches

Wrench Opening	Diameter of Head		Length C	Weight Each (lb)	Part Number		Std. Pkg. Qty.	Wrench Opening
	A	B			Chrome	Industrial Black		
3/4	1-11/16	1/4	6-5/16	.22	1224	BLK1224	6	3/4
13/16	1-11/16	1/4	6-5/16	.22	1226	BLK1226	6	13/16
7/8	1-11/16	1/4	6-5/16	.22	1228	BLK1228	6	7/8
15/16	1-7/8	1/4	6-7/8	.25	1230	BLK1230	6	15/16
1	1-7/8	1/4	6-7/8	.25	1232	BLK1232	6	1
1-1/16	1-7/8	1/4	6-7/8	.25	1234	BLK1234	6	1-1/16
1-1/8	2-1/16	1/4	7-3/16	.31	1236	BLK1236	6	1-1/8
1-3/16	2-1/16	1/4	7-3/16	.31	1238	BLK1238	6	13/16
1-1/4	2-1/16	1/4	7-3/16	.30	1240	BLK1240	6	1-1/4
1-5/16	2-1/16	1/4	7-3/16	.30	1236S	BLK1236S	6	1-5/16
1-5/16	2-1/2	9/32	7-11/16	.45	1242	BLK1242	6	1-5/16
1-3/8	2-1/2	9/32	7-11/16	.44	1244	BLK1244	6	1-3/8
1-7/16	2-1/2	9/32	7-11/16	.43	1246	BLK1246	6	1-7/16
1-1/2	2-1/2	9/32	7-11/16	.42	1248	BLK1248	6	1-1/2
1-9/16	2-5/8	9/32	7-15/16	.43	1250	BLK1250	6	1-9/16
1-5/8	2-5/8	9/32	7-15/16	.43	1252	BLK1252	6	1-5/8
1-11/16	2-5/8	9/32	7-15/16	.42	1254	BLK1254	6	1-11/16
1-3/4	3-1/8	5/16	8-9/16	.70	1256	BLK1256	6	1-3/4
1-13/16	3-1/8	5/16	8-9/16	.69	1258	BLK1258	6	1-13/16
1-7/8	3-1/8	5/16	8-9/16	.69	1260	BLK1260	6	1-7/8
1-15/16	3-1/8	5/16	8-9/16	.68	1262	BLK1262	6	1-15/16
2	3-1/2	5/16	9-1/2	.66	1264	BLK1264	6	2
2-1/8	3-1/2	5/16	9-1/2	.65	1268	BLK1268	6	2-1/8
2-1/4	3-1/2	5/16	9-1/2	.61	1272	BLK1272	6	2-1/4
2-3/8	3-1/2	5/16	9-1/2	.61	1276	BLK1276	6	2-3/8
2-1/2	3-1/2	5/16	9-1/2	.59	1272S	BLK1272S	6	2-1/2
2-9/16	3-1/2	5/16	9-1/2	.57	1264S	BLK1264S	6	2-9/16

SW11K



BSW11K

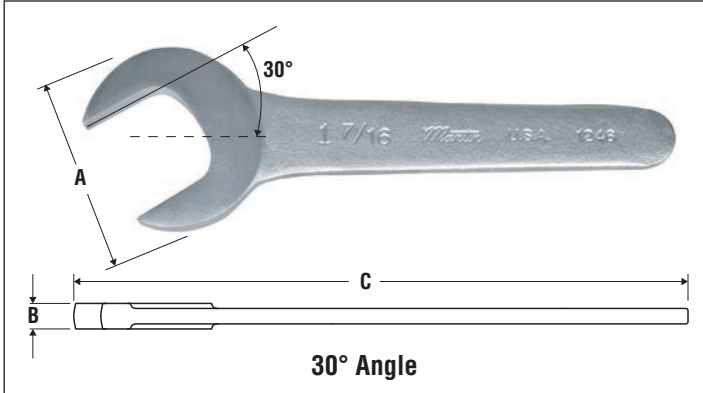


30° Angle Service Wrenches Sets

Chrome Set SW11K		Industrial Black Set BSW11K	
OPENING	PART NO.	OPENING	PART NO.
3/4	1224	3/4	BLK1224
13/16	1226	13/16	BLK1226
7/8	1228	7/8	BLK1228
15/16	1230	15/16	BLK1230
1	1232	1	BLK1232
1-1/16	1234	1-1/16	BLK1234
1-1/8	1236	1-1/8	BLK1236
13/16	1238	13/16	BLK1238
1-1/4	1240	1-1/4	BLK1240
1-3/8	1244	1-3/8	BLK1244
1-1/2	1248	1-1/2	BLK1248
Kit Bag	C111	Kit Bag	C111

Straight Service Wrenches

Wrench Opening	Diameter of Head		Length C	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Wrench Opening
	A	B					
1	2-1/2	1/4	12-1/4	.77	1932	6	1
1-1/8	2-1/2	1/4	12-1/4	.73	1936	6	1-1/8
1-1/2	2-7/8	9/32	12-1/4	.93	1948	6	1-1/2
1-5/8	2-7/8	9/32	12-1/4	.92	1952	6	1-5/8
1-3/4	3-7/16	5/16	12-1/4	1.3	1956	6	1-3/4
2	3-7/16	5/16	12-1/4	1.3	1964	6	2
2-1/4	3-7/16	5/16	12-1/4	1.3	1972	6	2-1/4



Pump Wrenches - Chrome

Thin Pattern for Use on Jam Nuts and in Confined Areas

30° Angle Heads

30° Angle Service Wrenches – Metric

Wrench Opening	Diameter of Head		Length C	Weight Each (lb)	Part Number Chrome	Std. Pkg. Qty.	Wrench Opening
	A	B					
19 mm	42.9 mm	6.4 mm	160.3 mm	.22	1219MM	6	19 mm
21 mm	42.9 mm	6.4 mm	160.3 mm	.22	1221MM	6	21 mm
22 mm	42.9 mm	6.4 mm	160.3 mm	.22	1222MM	6	22 mm
24 mm	47.6 mm	6.4 mm	174.8 mm	.25	1224MM	6	24 mm
27 mm	47.6 mm	6.4 mm	174.8 mm	.25	1227MM	6	27 mm
30 mm	52.4 mm	6.4 mm	182.6 mm	.31	1230MM	6	30 mm
32 mm	52.4 mm	6.4 mm	182.6 mm	.30	1232MM	6	32 mm
36 mm	63.5 mm	7.1 mm	195.3 mm	.45	1236MM	6	36 mm
37 mm	63.5 mm	7.1 mm	195.3 mm	.43	1237MM	6	37 mm
38 mm	63.5 mm	7.1 mm	195.3 mm	.42	1238MM	6	38 mm
40 mm	66.7 mm	7.1 mm	201.7 mm	.43	1240MM	6	40 mm
41 mm	66.7 mm	7.1 mm	201.7 mm	.43	1241MM	6	41 mm
42 mm	66.7 mm	7.1 mm	201.7 mm	.43	1242MM	6	42 mm
44 mm	66.7 mm	7.1 mm	201.7 mm	.43	1244MM	6	44 mm
46 mm	79.4 mm	7.9 mm	217.4 mm	.70	1246MM	6	46 mm
48 mm	79.4 mm	7.9 mm	217.4 mm	.70	1248MM	6	48 mm
50 mm	79.4 mm	7.9 mm	217.4 mm	.68	1250MM	6	50 mm
52 mm	88.9 mm	7.9 mm	242.1 mm	.66	1252MM	6	52 mm
55 mm	88.9 mm	7.9 mm	242.1 mm	.66	1255MM	6	55 mm
60 mm	88.9 mm	7.9 mm	242.1 mm	.61	1260MM	6	60 mm
65 mm	88.9 mm	7.9 mm	242.1 mm	.57	1265MM	6	65 mm

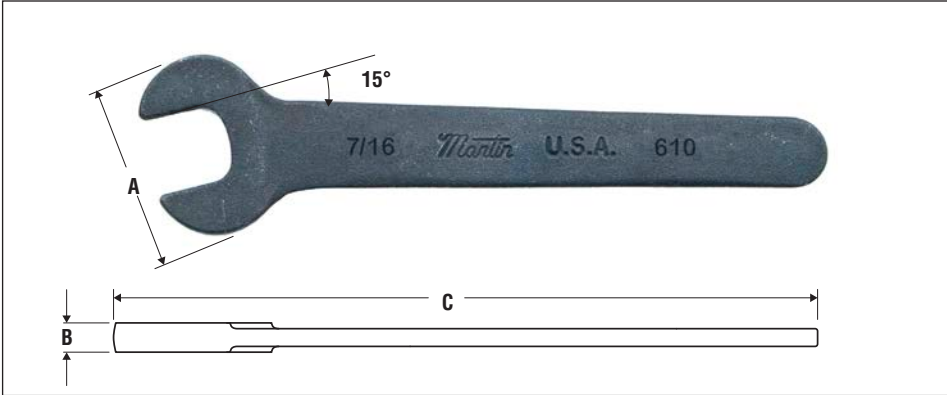
30° Angle Service Wrenches Set



SW11KM

OPENING	PART NO.
19 mm	1219MM
21 mm	1221MM
22 mm	1222MM
24 mm	1224MM
27 mm	1227MM
30 mm	1230MM
32 mm	1232MM
36 mm	1236MM
37 mm	1237MM
38 mm	1238MM
40 mm	1240MM
Kit Bag	C111

Check Nut Wrenches – Fractional & Metric



Thin Pattern

15° Angle

Use on Check Nuts, Stop Nuts, Jam Nuts, Hydraulic Fitting

Smaller Sizes Complement Service Wrenches

Check Nut Wrenches							
Wrench Opening	Diameter of Head		Length C	Weight Each (lb)	Part Number Industrial Black	Std. Pkg. Qty.	Wrench Opening
	A	B					
7/16	1	1/8	4	.05	601A	6	7/16
1/2	1	1/8	4	.05	601	6	1/2
9/16	1-1/4	5/32	4-1/2	.11	602A	6	9/16
19/32	1-1/4	5/32	4-1/2	.11	602	6	19/32
5/8	1-1/2	3/16	5-1/8	.13	603A	6	5/8
11/16	1-1/2	3/16	5-1/8	.13	603	6	11/16
3/4	1-5/8	7/32	5-7/8	.19	604A	6	3/4
13/16	1-13/16	1/4	6-5/8	.28	605A	6	13/16
7/8	1-13/16	1/4	6-5/8	.28	605	6	7/8
15/16	2-1/8	9/32	7-1/2	.36	606A	6	15/16
1	2-1/8	9/32	7-1/2	.35	606B	6	1
1-1/16	2-7/16	5/16	8-1/2	.66	607	6	1-1/16
1-1/8	2-7/16	5/16	8-1/2	.65	607A	6	1-1/8
1-1/4	2-3/4	3/8	10	1.12	608	6	1-1/4
1-5/16	2-3/4	3/8	10	1.12	608A	6	1-5/16
1-1/2	3-3/16	7/16	11-1/2	1.5	609A	6	1-1/2
1-5/8	3-11/16	1/2	13	2.3	610	6	1-5/8
1-11/16	3-11/16	1/2	13	2.2	610A	6	1-11/16

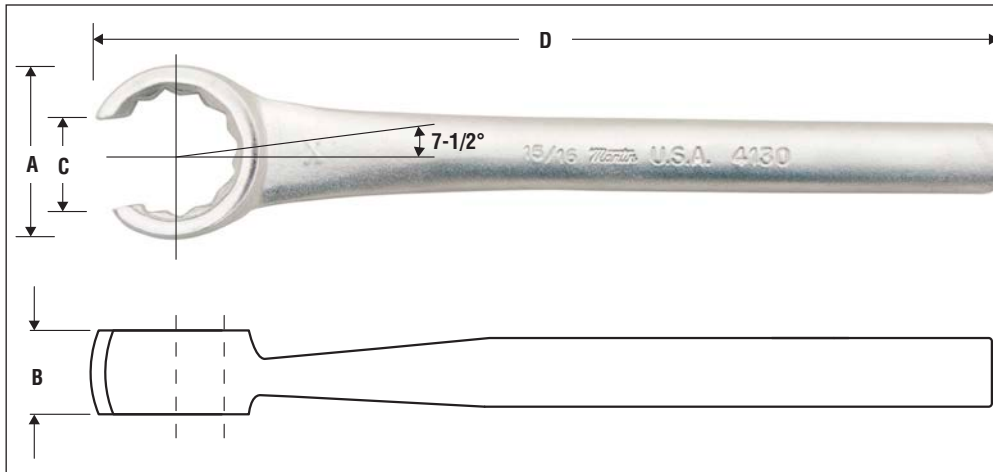
Check Nut Wrenches Set	
CN7K	
OPENING	PART NO.
7/16	601A
1/2	601
9/16	602A
5/8	603A
11/16	603
3/4	604A
7/8	605
Kit Bag	C70

Check Nut Wrenches – Metric							
Wrench Opening	Diameter of Head		Length C	Weight Each (lb)	Part Number Industrial Black	Std. Pkg. Qty.	Wrench Opening
	A	B					
10 mm	25.4 mm	3.2 mm	101.6 mm	.05	610MM	6	10 mm
11 mm	25.4 mm	3.2 mm	101.6 mm	.05	611MM	6	11 mm
12 mm	25.4 mm	3.2 mm	101.6 mm	.05	612MM	6	12 mm
13 mm	25.4 mm	3.2 mm	101.6 mm	.05	613MM	6	13 mm
14 mm	31.8 mm	4.0 mm	114.3 mm	.11	614MM	6	14 mm
15 mm	31.8 mm	4.0 mm	114.3 mm	.11	615MM	6	15 mm
16 mm	38.1 mm	4.8 mm	130.2 mm	.13	616MM	6	16 mm
17 mm	38.1 mm	4.8 mm	130.2 mm	.13	617MM	6	17 mm
18 mm	38.1 mm	4.8 mm	130.2 mm	.13	618MM	6	18 mm
19 mm	41.3 mm	5.6 mm	155.6 mm	.19	619MM	6	19 mm
21 mm	46.0 mm	6.4 mm	168.3 mm	.28	621MM	6	21 mm
22 mm	46.0 mm	6.4 mm	168.3 mm	.28	622MM	6	22 mm
24 mm	50.8 mm	7.1 mm	190.5 mm	.36	624MM	6	24 mm
27 mm	61.9 mm	7.9 mm	215.9 mm	.66	627MM	6	27 mm
30 mm	61.9 mm	7.9 mm	215.9 mm	.66	630MM	6	30 mm
32 mm	66.7 mm	9.5 mm	254.0 mm	1.12	632MM	6	32 mm
36 mm	66.7 mm	9.5 mm	254.0 mm	1.12	636MM	6	36 mm
37 mm	85.7 mm	11.1 mm	280.0 mm	1.50	637MM	6	37 mm
38 mm	85.7 mm	11.1 mm	289.0 mm	1.50	638MM	6	38 mm
41 mm	87.3 mm	12.7 mm	331.0 mm	2.1	641MM	6	41 mm

Check Nut Wrenches Set – Metric	
CN9KM	
OPENING	PART NO.
10 mm	610MM
11 mm	611MM
12 mm	612MM
13 mm	613MM
14 mm	614MM
15 mm	615MM
16 mm	616MM
17 mm	617MM
19 mm	619MM
Kit Bag	C90



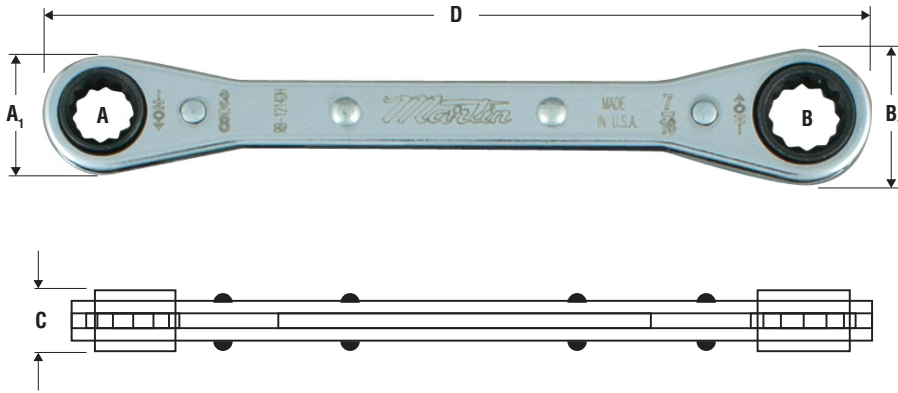
Flare Nut Wrenches



American Alloy Steel
Chrome or Black Finish
12 Point Opening
Drop Forged

Wrench Opening	Diameter of Head		Width of Slot	Length	Weight Each (lb)	Part Number		Std. Pkg. Qty.	Wrench Opening
	A	B	C	D		Chrome	Industrial Black		
3/8	3/4	3/8	9/32	6-7/16	.18	4112	BLK4112	6	3/8
7/16	13/16	3/8	11/32	6-7/16	.20	4114	BLK4114	6	7/16
1/2	7/8	7/16	3/8	6-13/16	.28	4116	BLK4116	6	1/2
9/16	1	7/16	7/16	6-13/16	.30	4118	BLK4118	6	9/16
5/8	1-1/16	1/2	1/2	7-1/16	.38	4120	BLK4120	6	5/8
11/16	1-1/8	1/2	9/16	7-1/16	.45	4122	BLK4122	6	11/16
3/4	1-7/32	9/16	5/8	7-7/16	.53	4124	BLK4124	6	3/4
13/16	1-5/16	5/8	21/32	7-7/16	.60	4126	BLK4126	6	13/16
7/8	1-7/16	5/8	11/16	7-1/2	.60	4128	BLK4128	6	7/8
15/16	1-1/2	5/8	3/4	7-5/8	.63	4130	BLK4130	6	15/16
1	1-9/16	5/8	3/4	7-13/16	.69	4132	BLK4132	6	1
1-1/16	1-5/8	11/16	13/16	7-13/16	.78	4134	BLK4134	6	1-1/16
1-1/8	1-11/16	11/16	7/8	7-13/16	.83	4136	BLK4136	6	1-1/8
1-1/4	1-13/16	11/16	1	7-15/16	.83	4140	BLK4140	6	1-1/4
1-3/8	2-1/16	13/16	1-1/16	9	1.3	4144	BLK4144	6	1-3/8
1-1/2	2-3/8	7/8	1-1/8	10	1.6	4148	BLK4148	6	1-1/2

Ratcheting Box Wrenches & Sets Straight Pattern



Chrome Finish
Different Openings on Each
End in Size from 1/4" through 7/8"
12 Point with 6 Point
Also Available on RB810, 1214 and 1618.

Wrench Opening A x B	Type Opening	Diameter of Head		Thickness of Head	Overall Length	Weight Each (lb)	Part No.	Std. Pkg. Qty.	Wrench Opening A x B
		A ₁	B ₁	C	D				
1/4 x 5/16	6 Point	9/16	5/8	3/8	41/4	.12	RB810	6	1/4 x 5/16
1/4 x 5/16	12 Point	9/16	5/8	3/8	41/4	.13	RB810DH	6	1/4 x 5/16
3/8 x 7/16	6 Point	5/8	7/8	3/8	51/2	.18	RB1214	6	3/8 x 7/16
3/8 x 7/16	12 Point	5/8	7/8	3/8	51/2	.19	RB1214DH	6	3/8 x 7/16
1/2 x 9/16	6 Point	1	1-1/8	1/2	63/4	.42	RB1618	6	1/2 x 9/16
1/2 x 9/16	12 Point	1	1-1/8	1/2	63/4	.42	RB1618DH	6	1/2 x 9/16
5/8 x 11/16	12 Point	1-1/4	1-7/16	1/2	8	.54	RB2022	6	5/8 x 11/16
5/8 x 3/4	12 Point	1-1/4	1-7/16	1/2	8	.52	RB2024	6	5/8 x 3/4
11/16 x 13/16	12 Point	1-7/16	1-9/16	1/2	91/4	.78	RB2226	6	11/16 x 13/16
3/4 x 7/8	12 Point	1-7/16	1-9/16	1/2	91/4	.74	RB2428	6	3/4 x 7/8

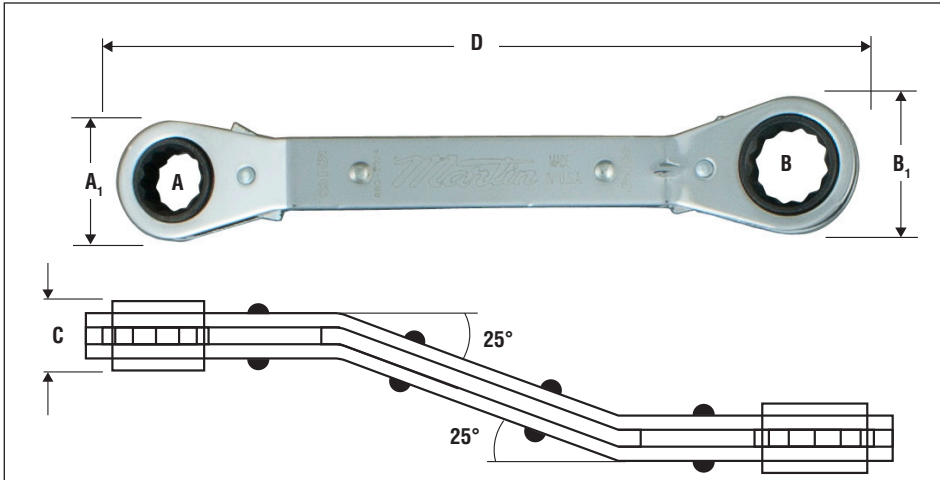
Sets

RB5K		RB7K	
OPENING	PART NO.	OPENING	PART NO.
1/4 x 5/16	RB810	1/4 x 5/16	RB810
3/8 x 7/16	RB1214	3/8 x 7/16	RB1214
1/2 x 9/16	RB1618	1/2 x 9/16	RB1618
5/8 x 11/16	RB2022	5/8 x 11/16	RB2022
3/4 x 7/8	RB2428	5/8 x 3/4	RB2024
Kit Bag	C185	11/16 x 13/16	RB2226
		3/4 x 7/8	RB2428
		Kit Bag	C187



Ratcheting Box Wrenches & Sets

25° Offset Pattern



Chrome Finish

25° Offset

Size Openings from 1/4" through 7/8" with Different Openings on Each End.

RBO810 through RBO1618 6 Point

RBO2022 through RBO2428 12 Point

Wrench Opening A × B	Type Opening	Diameter of Head		Thickness of Head	Overall Length D	Weight Each (lb)	Part No. Chrome	Std. Pkg. Qty.	Wrench Opening
		A ₁	B ₁	C					A × B
1/4 × 5/16	6 Point	9/16	5/8	3/8	43/32	.12	RBO810	6	1/4 × 5/16
3/8 × 7/16	6 Point	5/8	7/8	3/8	57/32	.18	RBO1214	6	3/8 × 7/16
1/2 × 9/16	6 Point	1	11/8	1/2	615/32	.42	RBO1618	6	1/2 × 9/16
5/8 × 11/16	12 Point	11/4	17/16	1/2	721/32	.54	RBO2022	6	5/8 × 11/16
5/8 × 3/4	12 Point	11/4	17/16	1/2	721/32	.52	RBO2024	6	5/8 × 3/4
11/16 × 13/16	12 Point	17/16	19/16	1/2	83/4	.78	RBO2226	6	11/16 × 13/16
3/4 × 7/8	12 Point	17/16	19/16	1/2	83/4	.74	RBO2428	6	3/4 × 7/8

Sets

RBO5K		RBO7K	
OPENING	PART NO.	OPENING	PART NO.
1/4 × 5/16	RBO810	1/4 × 5/16	RBO810
3/8 × 7/16	RBO1214	3/8 × 7/16	RBO1214
1/2 × 9/16	RBO1618	1/2 × 9/16	RBO1618
5/8 × 11/16	RBO2022	5/8 × 11/16	RBO2022
5/8 × 3/4	RBO2024	5/8 × 3/4	RBO2024
11/16 × 13/16	RBO2226	11/16 × 13/16	RBO2226
3/4 × 7/8	RBO2428	3/4 × 7/8	RBO2428
Kit Bag	C185	Kit Bag	C187

Heavy-Duty Pipe Wrenches

Straight Iron Handle



Straight Aluminium Handle • Rigid Branded

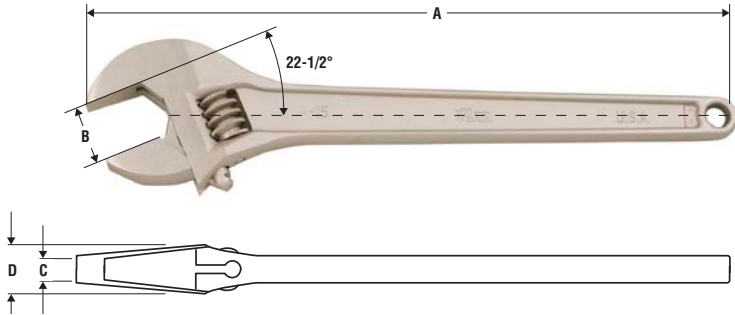


Size	Capacity	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Size	Capacity	Weight Each (lb)	Part Number	Std. Pkg. Qty.
6	3/4	1/2	PW6	6	—	—	—	—	—
8	1	3/4	PW8	6	—	—	—	—	—
10	1-1/2	13/4	PW10	6	10	1-1/2	1	PWA10*	6
12	2	23/4	PW12	6	—	—	—	—	—
14	2	31/2	PW14	6	14	2	2	PWA14	6
18	2-1/2	53/4	PW18	6	18	2-1/2	3-1/2	PWA18*	6
24	3	93/4	PW24	3	24	3	5-3/4	PWA24*	6
36	5	17	PW36	3	36	5	10	PWA36	3
—	—	—	—	—	48	6	17	PWA48*	1

Pipe Wrench Parts

Hook Jaw		Heel Jaw & Pin		Flat Spring & Ball		Nut	
PART NUMBER	SIZE	PART NUMBER	SIZE	PART NUMBER	SIZE	PART NUMBER	SIZE
PW6HJ	6	PW6HP	6	PW6SFC	6	PW6N	6
PW8HJ	8	PW8HP	8	PW8SFC	8	PW8N	8
PW10HJ	10	PW10HP	10	PW10SFC	10	PW10N	10
PW12HJ	12	PW12HP	12	PW12SFC	12	PW12N	12
PW14HJ	14	PW14HP	14	PW14SFC	14	PW14N	14
PW18HJ	18	PW18HP	18	PW18SFC	18	PW18N	18
PW24HJ	24	PW24HP	24	PW24SFC	24	PW24N	24
PW36HJ	36	PW36HP	36	PW36SFC	36	PW36N	36
		PW48HP	48	PW48SFC	48	PW48N	48

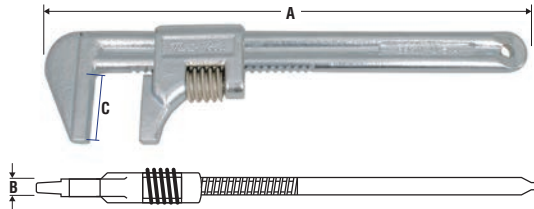
Adjustable Wrench



Drop Forged American Alloy Steel
Extra Wide Capacity
Light Weight
Thin Tapered Head
22-1/2° Angle
Chrome and Industrial Black Finish

Size Length	Capacity	Thickness of Head		Weight Each (lb)	Part Number		Std. Pkg. Qty.	Size Length
		Jaw Tip	Extreme		Chrome	Industrial Black		
A	B	C	D					A
6	15/16	7/32	3/8	.26	A6	A6T	6	6
8	1-1/8	17/64	1/2	.48	A8	A8T	6	8
10	1-5/16	23/64	19/32	.80	A10	A10T	6	10
12	1-1/2	15/32	23/32	1.30	A12	A12T	6	12
15	1-3/4	19/32	31/32	3.00	A15	A15T	6	15
18	2-3/16	23/32	13/16	5.65	A18	A18T	1	18
24	2-1/2	7/8	13/8	8.60	A24	A24T	1	24

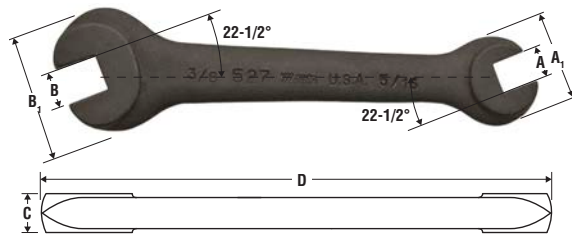
Adjustable Auto Wrench



Drop Forged American Allow Steel
Machined and Heat Treated
Well Suited for General Repair Work

A	Max. Jaw Capacity	B	C	Weight Each (lb)	Part No. Chrome	Std. Pkg. Qty.
11	3	7/16	1-1/2	1.5	89311	1
15	3-7/8	9/16	2	2	89315	1
18	3-7/8	9/16	2-1/4	3	89318	1

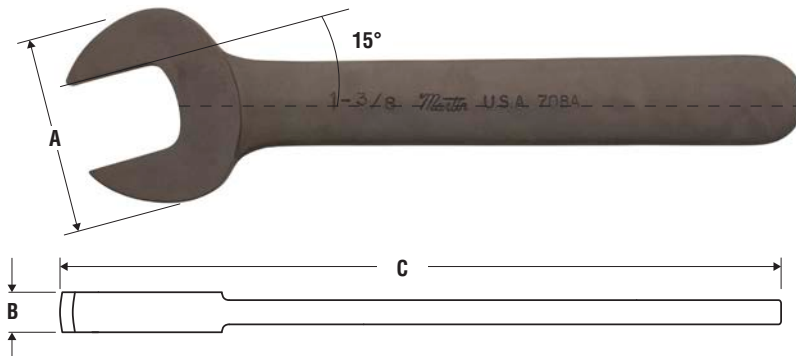
Set Screw Wrench



For Hard Square Set Screws, Cap Screws & Nuts
High Grade Carbon Steel
Machined to Industry Standards

Wrench Openings	Diameter of Head	Thickness of Head	Length	Weight Each (lb)	Part No.		Std. Pkg. Qty.	Wrench Openings
					Industrial Black			
A × B	A ₁ × B ₁	C	D					A × B
3/16 × 1/4	27/32 × 1-1/16	9/32	4-1/4	.13		523	6	3/16 × 1/4
1/4 × 5/16	27/32 × 1-1/16	9/32	4-1/4	.13		525	6	1/4 × 5/16
5/16 × 3/8	1 × 1-5/16	11/32	5	.21		527	6	5/16 × 3/8
3/8 × 7/16	1-1/4 × 1-3/8	3/8	5-3/4	.33		529	6	3/8 × 7/16
3/8 × 1/2	1-1/4 × 1-3/8	13/32	5-3/4	.35		530	6	3/8 × 1/2
7/16 × 1/2	1-1/4 × 1-3/8	13/32	5-3/4	.35		531	6	7/16 × 1/2
1/2 × 5/8	1-3/4 × 1-7/8	9/16	8-1/2	.90		534	6	1/2 × 5/8

Single Head Open End Engineers Wrench



**American High
Carbon Steel**

**Precision Forged and
through Hardened**

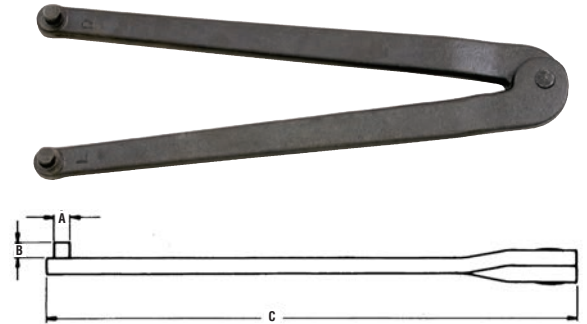
**15/8" and Larger Sizes
Have Tapered Handles**

Industrial Black Finish

Wrench Opening	Diameter of Head	Thickness of Head	Length	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Wrench Opening
	A	B	C		Industrial Black		
7/16	1	5/16	4-5/8	.16	701	6	7/16
1/2	1	5/16	4-5/8	.16	1	6	1/2
9/16	1-3/16	5/16	5-1/2	.19	702	6	9/16
5/8	1-3/8	11/32	6-3/8	.32	703	6	5/8
11/16	1-3/8	11/32	6-3/8	.32	3	6	11/16
3/4	1-9/16	3/8	7-1/4	.44	704	6	3/4
13/16	1-3/4	7/16	8-1/8	.64	705	6	13/16
7/8	1-3/4	7/16	8-1/8	.64	5	6	7/8
15/16	2	7/16	9-1/4	.80	6A	6	15/16
1	2	7/16	9-1/4	.82	706	6	1
1-1/16	2-1/4	9/16	10-1/2	1.26	7	6	1-1/16
1-1/8	2-1/4	9/16	10-1/2	1.22	707	6	1-1/8
1-1/4	2-3/4	19/32	12	2.1	8	6	1-1/4
1-5/16	2-3/4	19/32	12	2.0	8A	6	1-5/16
1-3/8	2-3/4	19/32	12	2.0	708A	6	1-3/8
1-7/16	3	5/8	13-1/2	2.5	9	6	1-7/16
1-1/2	3	5/8	13-1/2	2.5	709	6	1-1/2
1-5/8	3-1/2	7/8	15	3.6	10	1	1-5/8
1-11/16	3-1/2	7/8	15	3.5	10A	1	1-11/16
1-13/16	3-3/4	15/16	16-1/2	5.0	11	1	1-13/16
1-7/8	3-3/4	15/16	16-1/2	5.0	11A	1	1-7/8
2	4-1/8	1	18-1/4	6.2	12	1	2
2-1/16	4-1/8	1	18-1/4	6.2	12A	1	2-1/16
2-3/16	4-1/2	1-1/16	20	8.0	13	1	2-3/16
2-1/4	4-1/2	1-1/16	20	8.0	13A	1	2-1/4
2-3/8	4-5/8	1-1/8	22	9.6	14	1	2-3/8
2-7/16	4-5/8	1-1/8	22	9.6	14A	1	2-7/16
2-9/16	5-1/4	1-3/16	24	13.2	15	1	2-9/16
2-5/8	5-1/4	1-3/16	24	13.1	15A	1	2-5/8
2-3/4	6	1-1/4	27	12.9	16	1	2-3/4
2-13/16	6	1-1/4	27	16.0	16B	1	2-13/16
2-15/16	6	1-1/4	27	16.0	16A	1	2-15/16
3	6-3/8	1-1/2	30	23.7	17A	1	3
3-1/8	6-3/8	1-1/2	30	23.7	17	1	3-1/8
3-3/8	7-1/2	1-5/8	34	31.6	18A	1	3-3/8
3-1/2	7-1/2	1-5/8	34	31.6	18	1	3-1/2
3-3/4	8	1-3/4	37	33.0	19B	1	3-3/4
3-7/8	8	1-3/4	37	33.0	19	1	3-7/8
4-1/8	8	1-3/4	37	32.5	19C	1	4-1/8
4-1/4	8	1-3/4	37	32.0	19A	1	4-1/4
4-1/2	10-1/4	1-7/8	42	50.5	20B	1	4-1/2
4-5/8	10-1/4	1-7/8	42	50.5	20	1	4-5/8
5	10-1/4	1-7/8	42	50.4	20A	1	5

Adjustable Face Spanner

Extreme Capacity	Diameter of Pin	Length of Pin	Overall Length	Weight Each (lb)	Part Number	Std. Pkg. Qty.
	A	B	C		Industrial Black	
2	3/16	7/32	6-1/4	.31	482	6
3	1/4	9/32	8-1/4	.52	483	6
4	5/16	11/32	10-1/4	1.02	484	6



Pin Spanner

For Circle Diameter	Diameter of Pin	Length of Pin	Overall Length	Weight Each (lb)	Part Number	Std. Pkg. Qty.
	A	B	C		Industrial Black	
1	3/16	3/16	4	.08	452	6
1-1/4	13/64	3/16	4-1/2	.11	453	6
1-1/2	7/32	7/32	5	.13	454	6
1-3/4	15/64	7/32	5-1/2	.17	455	6
2	1/4	1/4	6	.20	456	6
2-1/4	17/64	1/4	6-1/2	.24	457	6
2-1/2	9/32	9/32	7	.28	458	6
2-3/4	19/64	9/32	7-1/2	.37	459	6
3	5/16	5/16	8	.43	460	6
3-1/4	21/64	5/16	8-1/2	.47	461	6
3-1/2	11/32	11/32	9	.50	462	6
3-3/4	23/64	11/32	9-1/2	.59	463	6
4	3/8	3/8	10	.69	464	6
5	7/16	7/16	12	1.15	466	6
6	1/2	1/2	14	1.90	468	6



Face Spanner

Center Distance of Pins	Pins		Span of Jaws in Clear	Length from Center of Pins	Thickness	Weight Each (lb)	Part No.	Std. Pkg. Qty.
	Diameter	Length					Industrial Black	
A	B	C	D	E	F			
1	3/16	3/16	11/16	4-1/2	3/16	.12	418	6
1-1/4	7/32	7/32	7/8	5	3/16	.13	420	6
1-1/2	7/32	7/32	1-1/8	5-1/2	3/16	.23	422	6
1-3/4	7/32	7/32	1-3/8	6	7/32	.30	424	6
2	1/4	1/4	1-19/32	6-1/2	7/32	.39	426	6
2-1/4	1/4	1/4	1-27/32	7	7/32	.42	428	6
2-1/2	9/32	9/32	2-1/32	7-1/2	1/4	.52	430	6
2-3/4	9/32	9/32	2-9/32	8	1/4	.59	432	6
3	5/16	5/16	2-1/2	8-1/2	1/4	.70	434	6
3-1/4	5/16	5/16	2-3/4	9-1/8	1/4	.82	436	6
3-1/2	5/16	5/16	3	9-3/4	1/4	.89	438	6
3-3/4	3/8	3/8	3-3/16	10-3/8	1/4	1.0	440	6
4	3/8	3/8	3-7/16	11	1/4	1.1	442	6



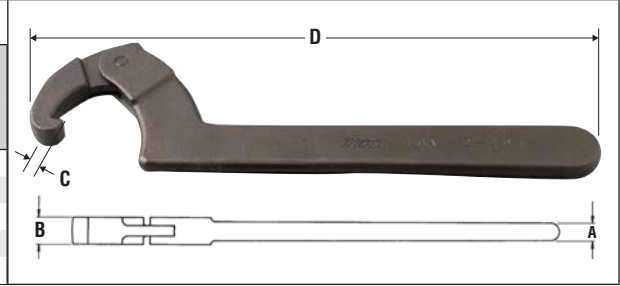
Spanner Wrenches & Sets

– Adjustable



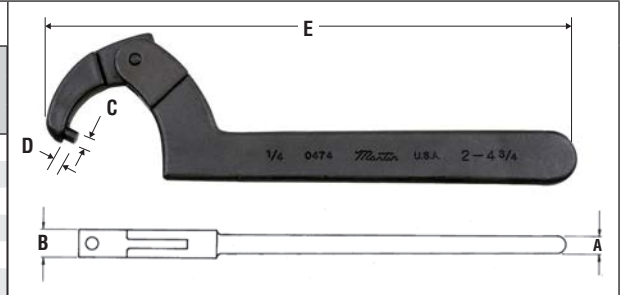
Adjustable Hook Spanner

Capacity Range	Thickness of Handle	Thickness of Hook	Depth of Hook	Overall Length	Weight Each (lb)	Part No.	Std. Pkg. Qty.
	A	B	C	D		Industrial Black	
3/4 to 2	1/4	3/8	1/8	6-1/2	.23	471	6
1-1/4 to 3	9/32	1/2	5/32	8-1/16	.43	472	6
2 to 4-3/4	11/32	17/32	7/32	11-3/16	1.03	474	6
4-1/2 to 6-1/4	11/32	17/32	1/4	12	1.07	474A	6
6-1/8 to 8-3/4	11/32	17/32	5/16	13-5/16	1.40	474B	6



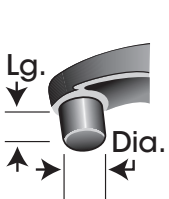
Adjustable Pin Spanner

Capacity Range	Thickness		Pin Size		Overall Length	Weight Each (lb)	Part No.	Std. Pkg. Qty.
	Handle	Hook	Diameter	Length				
	A	B	C	D	E			
3/4 to 2	1/4	3/8	1/8	1/8	6-1/2	.23	0471	6
3/4 to 2	1/4	3/8	3/16	5/32	6-1/2	.23	0471A	6
1-1/4 to 3	9/32	1/2	3/16	3/16	8-1/16	.42	0472	6
1-1/4 to 3	9/32	1/2	1/4	7/32	8-1/16	.42	0472A	6
2 to 4-3/4	11/32	17/32	1/4	1/4	11-3/16	.99	0474	6
4-1/2 to 6-1/4	11/32	17/32	3/8	1/4	12-3/16	1.08	0474A	6

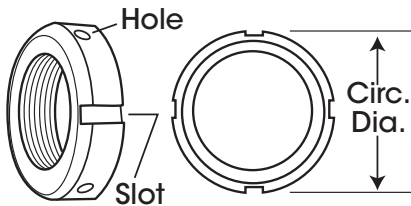


Adjustable Spanner Wrench Sets

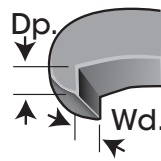
SPW6K		SHW5K	
Image	CAPACITY RANGE PART NO.	Image	CAPACITY RANGE PART NO.
	3/4 to 2 0471		3/4 to 2 471
	3/4 to 2 0471A		1-1/4 to 3 472
	1-1/4 to 3 0472		2 to 4-3/4 474
	1-1/4 to 3 0472A		4-1/2 to 6-1/4 474A
	2 to 4-3/4 0474		6-1/8 to 8-3/4 474B
	4-1/2 to 6-1/4 0474A		Kit Bag C60B
Kit Bag C60B			



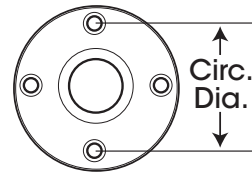
Adjustable Pin Spanner



Pins fit into the holes or slots on the side of the flange or collar.



Adjustable Hook Spanner

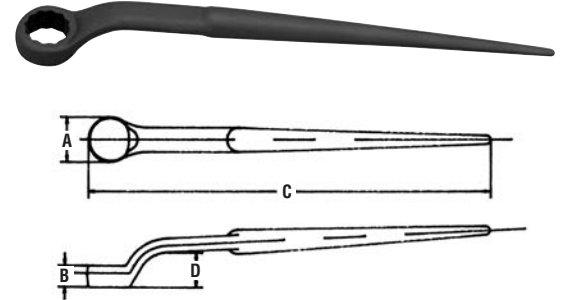


Pins fit into the holes or slots on the face of the flange or collar.

Adjustable Face Spanner

Structural Box Wrenches

Wrench Opening	Diameter of Head	Thickness of Head	Length	Offset at End	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Wrench Opening
	A	B		D				
13/16	1-15/32	11/16	12	1-25/32	1.3	8905A	1	13/16
7/8	1-15/32	11/16	12	1-25/32	1.3	8905	1	7/8
15/16	1-5/8	13/16	13	1-61/64	1.3	8906	1	15/16
1	1-5/8	13/16	13	1-61/64	1.3	8906B	1	1
1-1/16	1-53/64	7/8	15	2-9/64	1.9	8907	1	1-1/16
1-1/8	1-53/64	7/8	15	2-9/64	1.9	8907A	1	1-1/8
1-1/4	2-5/64	15/16	17	2-21/64	2.6	8908	1	1-1/4
1-5/16	2-5/64	15/16	17	2-21/64	2.0	8908A	1	1-5/16
1-7/16	2-3/8	1-1/8	19	2-3/4	3.5	8909	1	1-7/16
1-1/2	2-3/8	1-1/8	19	2-3/4	3.5	8909A	1	1-1/2
1-5/8	2-5/8	1-3/16	21	2-7/8	4.8	8910	1	1-5/8
1-11/16	2-5/8	1-3/16	21	2-7/8	4.7	8910A	1	1-11/16
1-13/16	2-29/32	1-1/4	22	3	6.6	8911	1	1-13/16
1-7/8	2-29/32	1-1/4	22	3	6.6	8911A	1	1-7/8
2	3-5/32	1-3/8	24	3-5/32	6.5	8912	1	2
2-3/16	3-15/32	1-1/2	26	3-1/2	7.3	8913	1	2-3/16
2-3/8	3-23/32	1-5/8	28	3-11/16	8.5	8914	1	2-3/8
2-9/16	3-29/32	1-3/4	29	3-13/16	9.2	8915	1	2-9/16
2-3/4	4-5/32	1-7/8	30	3-9/32	9.8	8916	1	2-3/4



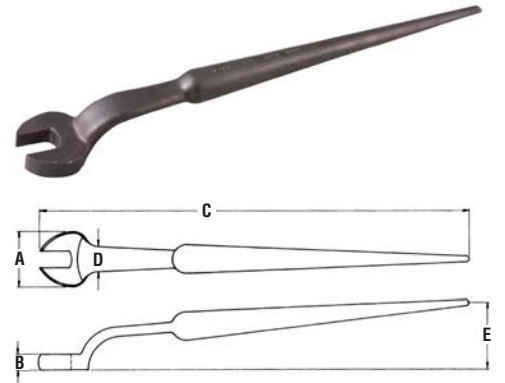
Structural Box Wrench Heads are Offset from Handle to Permit Clearance of Obstructions

Industrial Black

Handles are Tapered to Align Bolt Holes

Structural Wrenches Offset

Wrench Opening	Diameter of Head	Thickness of Head	Length	Handle at Head	Offset at End	Wt. Ea. (lb)	Part Number	Std. Pkg. Qty.	Wrench Opening
	A	B		D	E				
9/16	1-9/16	7/16	12	13/16	1-11/16	.56	901B	1	9/16
5/8	1-9/16	7/16	12	13/16	1-11/16	.56	903A	1	5/8
11/16	1-9/16	7/16	12	13/16	1-11/16	.56	903	1	11/16
3/4	1-9/16	7/16	12	13/16	1-11/16	.70	904A	1	3/4
13/16	2	17/32	14-1/2	15/16	1-7/8	1.3	905A	1	13/16
7/8	2	17/32	14-1/2	15/16	1-7/8	1.3	905	1	7/8
15/16	2	17/32	14-1/2	15/16	1-7/8	1.3	906C	1	15/16
1	2	17/32	14-1/2	15/16	1-7/8	1.3	906B	1	1
1-1/16	2-1/4	5/8	16	1-1/16	2-3/8	1.9	907	1	1-1/16
1-1/8	2-1/4	5/8	16	1-1/16	2-3/8	1.9	907A	1	1-1/8
1-1/4	2-13/16	11/16	19	1-1/4	2-3/4	2.6	908	1	1-1/4
1-5/16	2-13/16	11/16	19	1-1/4	2-3/4	2.6	908A	1	1-5/16
1-7/16	3-1/8	3/4	20	1-1/4	3-1/16	3.5	909	1	1-7/16
1-1/2	3-1/8	3/4	20	1-1/4	3-1/16	3.5	909A	1	1-1/2
1-5/8	3-19/32	13/16	23	1-1/2	3-3/8	4.8	910	1	1-5/8
1-11/16	3-19/32	13/16	23	1-1/2	3-3/8	4.7	910A	1	1-11/16
1-13/16	4-1/8	13/16	24	1-5/8	3-11/16	6.6	911	1	1-13/16
1-7/8	4-1/8	13/16	24	1-5/8	3-11/16	6.6	911A	1	1-7/8
2	4-1/8	13/16	24	1-5/8	3-11/16	6.5	912	1	2



Structural Wrench Heads are Offset from Handle to Permit Clearance of Obstructions

Handles are Tapered to Align Bolt Holes

Construction and Box Wrenches



Construction Wrench 15° Angle

Wrench Opening	Diameter of Head		Length C	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Wrench Opening
	A	B					
5/8	1-9/16	7/16	12	.62	203A	1	5/8
11/16	1-9/16	7/16	12	.62	203	1	11/16
3/4	1-9/16	7/16	12	.58	204A	1	3/4
7/8	2	17/32	14-1/2	2.0	205	1	7/8
15/16	2	17/32	14-1/2	2.0	206C	1	15/16
1	2	17/32	14-1/2	2.0	206B	1	1
1-1/16	2-1/4	5/8	17	1.8	207	1	1-1/16
1-1/8	2-1/4	5/8	17	1.8	207A	1	1-1/8
1-1/4	2-5/8	11/16	19	2.7	208	1	1-1/4
1-5/16	2-5/8	11/16	19	2.7	208A	1	1-5/16
1-7/16	2-5/8	11/16	19	2.6	209	1	1-7/16
1-1/2	2-5/8	11/16	19	2.6	209A	1	1-1/2
1-5/8	4	15/16	22-11/16	7.0	210	1	1-5/8
1-11/16	4	15/16	22-11/16	7.0	210A	1	1-11/16
1-13/16	4	15/16	22-11/16	6.9	211	1	1-13/16
1-7/8	4	15/16	22-11/16	6.9	211A	1	1-7/8
2	4	15/16	22-11/16	6.8	212	1	2



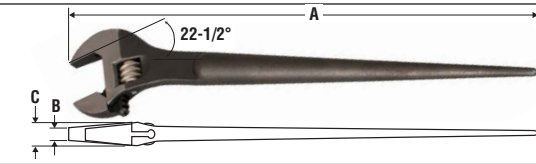
Drop Forged from High Grade Carbon Steel, through Hardening

Straight Handle with 15° Angle Opening

Handles are Tapered to Align Bolt Holes

Adjustable Construction Wrench

Wrench Opening	Size Length	Thickness of Head		Weight Each (lb)	Part Number	Std. Pkg. Qty.	Wrench Opening
		Jaw Tip	Extreme				
	A	B	C				
1-1/2	16	7/32	9/16	2.3	A200T	1	1-1/2



Ratcheting Construction Wrench

Wrench Opening	Size Length	Thickness of Head		Weight Each (lb)	Part Number	Std. Pkg. Qty.	Wrench Opening
		Jaw Tip	Extreme				
	A	B	C				
1/2 DR	16	7/32	9/16	2	R200	1	1/2 DR



Barrel Drift Pins

Standard Diameter	Overall Length	Length of Taper	Point Size	Weight Each (lb)	Part Number	Std. Pkg. Qty.
15/16	8-1/2	2-1/2	7/16	1.1	635	1
1-1/16	8-1/2	2-1/2	9/16	1.5	636	1



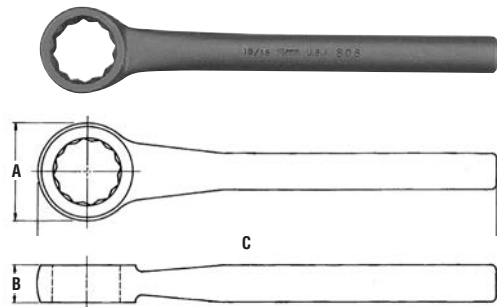
Broad Head Bull Pins

Standard Diameter	Overall Length	Length of Taper	Point Size	Weight Each (lb)	Part Number	Std. Pkg. Qty.
1-1/16	10	8	1/4	1.6	649	1
1-1/4	13	10	5/16	3.0	650	1



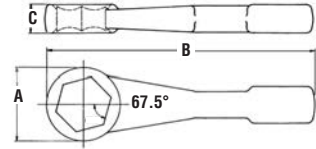
Box Wrenches

Wrench Opening	Diameter of Head		Length C	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Wrench Opening
	A	B					
1/2	29/32	3/8	6-25/32	.28	801	6	1/2
9/16	1-1/32	7/16	6-25/32	.30	802A	6	9/16
5/8	1-1/16	1/2	7-1/8	.38	803A	6	5/8
11/16	1-1/8	1/2	7-3/16	.45	803	6	11/16
3/4	1-7/32	9/16	7-7/16	.53	804A	6	3/4
7/8	1-3/8	5/8	7-1/2	.60	805	6	7/8
15/16	1-7/16	5/8	7-13/16	.63	806	6	15/16
1	1-9/16	11/16	7-13/16	.69	806B	6	1
1-1/16	1-5/8	3/4	7-15/16	.78	807	6	1-1/16
1-1/8	1-11/16	25/32	7-15/16	.83	807A	6	1-1/8
1-1/4	1-23/32	13/16	7-15/16	.83	808	6	1-1/4
1-1/2	2-3/16	7/8	10	1.6	809A	6	1-1/2

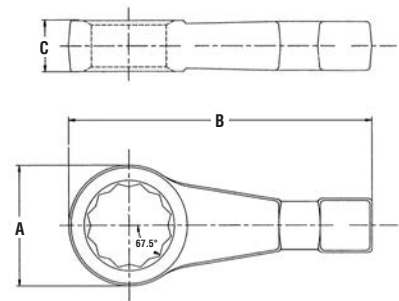


12 Point Box Opening

Wrench Opening	Diameter of Head		Thickness of Head		Length		Wt. Ea. (lb)	Part No.	Std. Pkg. Qty.	Wrench Opening
	A	B	C							
1-1/16	1-25/32	9-7/8	5/8	1.9	RN7063	1	1-1/16			
1-1/4	2	10-1/4	23/32	2.1	RN7075	1	1-1/4			
1-7/16	2-17/64	10-9/16	7/8	2.6	RN7088	1	1-7/16			
1-5/8	2-31/64	11	61/64	2.9	RN7100	1	1-5/8			
1-13/16	2-21/32	11-5/16	63/64	3.5	RN7113	1	1-13/16			
2	3-1/32	11-11/16	1-7/32	4.0	RN7125	1	2			
2-3/16	3-9/32	12	1-1/4	5.2	RN7138	1	2-3/16			
2-3/8	3-13/32	12-3/8	1-7/16	6.0	RN7150	1	2-3/8			
2-9/16	3-3/4	12-11/16	1-17/32	6.6	RN7163	1	2-9/16			
2-3/4	4-11/64	13-1/16	1-17/32	7.5	RN7175	1	2-3/4			
2-15/16	4-23/64	13-7/16	1-17/32	7.9	RN7188	1	2-15/16			
3-1/8	4-31/64	13-13/16	1-5/8	9.4	RN7200	1	3-1/8			
3-1/2	4-31/32	14-1/8	1-23/32	10.5	RN7225	1	3-1/2			
3-7/8	5-35/64	14-1/2	1-23/32	13.3	RN7250	1	3-7/8			
Wrench Opening	Diameter of Head		Thickness of Head		Length		Wt. Ea. (lb)	Part No.	Std. Pkg. Qty.	Wrench Opening
	A	B	C							
1	1-25/32	9-7/8	5/8	1.9	1807B	1	1			
1-1/16	1-25/32	9-7/8	5/8	1.9	1807	1	1-1/16			
1-1/8	1-25/32	9-7/8	5/8	1.9	1807A	1	1-1/8			
1-3/16	2	10-1/4	23/32	2.1	1808B	1	1-3/16			
1-1/4	2	10-1/4	23/32	2.1	1808	1	1-1/4			
1-5/16	2	10-1/4	23/32	2.1	1808A	1	1-5/16			
1-3/8	2-17/64	10-9/16	7/8	2.6	1809B	1	1-3/8			
1-7/16	2-17/64	10-9/16	7/8	2.6	1809	1	1-7/16			
1-1/2	2-17/64	10-9/16	7/8	2.6	1809A	1	1-1/2			
1-5/8	2-31/64	11	61/64	2.9	1810	1	1-5/8			
1-11/16	2-31/64	11	61/64	2.9	1810A	1	1-11/16			
1-3/4	2-21/32	11-5/16	63/64	3.5	1811B	1	1-3/4			
1-13/16	2-21/32	11-5/16	63/64	3.5	1811	1	1-13/16			
1-7/8	2-21/32	11-5/16	63/64	3.5	1811A	1	1-7/8			
1-15/16	3-1/32	11-11/16	1-7/32	4.0	1812A	1	1-15/16			
2	3-1/32	11-11/16	1-7/32	4.0	1812	1	2			
2-1/16	3-1/32	11-11/16	1-7/32	4.0	1812B	1	2-1/16			
2-1/8	3-9/32	12	1-1/4	5.2	1813B	1	2-1/8			
2-3/16	3-9/32	12	1-1/4	5.2	1813	1	2-3/16			
2-1/4	3-13/32	12-3/8	1-7/16	6.0	1813A	1	2-1/4			
2-3/8	3-13/32	12-3/8	1-7/16	6.0	1814	1	2-3/8			
2-7/16	3-3/4	12-11/16	1-17/32	6.5	1815B	1	2-7/16			
2-1/2	3-3/4	12-11/16	1-17/32	6.5	1815C	1	2-1/2			
2-9/16	3-3/4	12-11/16	1-17/32	6.5	1815	1	2-9/16			
2-5/8	3-3/4	12-11/16	1-17/32	6.5	1815A	1	2-5/8			
2-3/4	4-11/64	13-1/16	1-17/32	7.5	1816	1	2-3/4			
2-13/16	4-23/64	13-7/16	1-17/32	7.9	1816C	1	2-13/16			
2-15/16	4-23/64	13-7/16	1-17/32	7.9	1816B	1	2-15/16			
3	4-31/64	13-13/16	1-5/8	9.4	1817A	1	3			
3-1/8	4-31/64	13-13/16	1-5/8	9.4	1817	1	3-1/8			
3-3/8	4-31/32	14-1/8	1-23/32	10.5	1818A	1	3-3/8			
3-1/2	4-31/32	14-1/8	1-23/32	10.5	1818	1	3-1/2			
3-3/4	5-35/64	14-1/2	1-23/32	13.3	1819B	1	3-3/4			
3-7/8	5-35/64	14-1/2	1-23/32	13.3	1819	1	3-7/8			
4-1/8	6-3/4	16-7/32	2-7/8	20.8	1820B	1	4-1/8			
4-1/4	6-3/4	16-7/32	2-7/8	20.1	1820	1	4-1/4			
4-1/2	7-1/4	18-7/32	3	35.2	1821B	1	4-1/2			
4-5/8	7-1/4	18-7/32	3	38.0	1821	1	4-5/8			
4-3/4	7-1/4	18-7/32	3	38.2	1822	1	4-3/4			
32 mm	50.8 mm	260.4 mm	18.3 mm	2.1	1832MM	1	32 mm			
36 mm	57.7 mm	268.2 mm	22.4 mm	2.6	1836MM	1	36 mm			
41 mm	63.0 mm	279.4 mm	24.1 mm	2.9	1841MM	1	41 mm			
46 mm	67.6 mm	287.3 mm	24.9 mm	3.5	1846MM	1	46 mm			
50 mm	67.6 mm	287.3 mm	24.9 mm	3.5	1850MM	1	50 mm			
55 mm	83.3 mm	304.8 mm	31.8 mm	5.2	1855MM	1	55 mm			
60 mm	86.6 mm	314.5 mm	36.6 mm	6.0	1860MM	1	60 mm			
65 mm	95.3 mm	322.3 mm	38.9 mm	6.6	1865MM	1	65 mm			
70 mm	105.9 mm	331.7 mm	38.9 mm	7.5	1870MM	1	70 mm			
75 mm	110.7 mm	341.4 mm	38.9 mm	7.9	1875MM	1	75 mm			
80 mm	113.8 mm	350.8 mm	41.1 mm	9.4	1880MM	1	80 mm			



Roughneck "Hammer Wrench"
Straight Pattern — 6 Point
Alloy Steel — Drop Forged



Roughneck "Hammer Wrench"
Straight Pattern — 12 Point
Alloy Steel — Drop Forged
SAE and Metric

Striking Box, Strike Free & Wrench Retainers



Striking Face Box Wrenches - Offset

Offset Pattern — 12 Point

Black Industrial Finish

Drop Forged

SAE and Metric

Wrench Opening	Diameter of Head	Thickness of Head	Length	Weight Each	Part Number	Std. Pkg. Qty.
	A	B					C
1	1-25/32	3/4	10	1.9	8807 B	1
1-1/16	1-25/32	3/4	10	1.9	8807	1
1-1/8	1-25/32	3/4	10	1.8	8807A	1
1-3/16	2-1/16	27/32	11	2.6	8808B	1
1-1/4	2-1/16	27/32	11	2.6	8808	1
1-5/16	2-1/16	27/32	11	2.6	8808A	1
1-3/8	2-25/64	15/16	11-1/2	3.4	8809B	1
1-7/16	2-25/64	15/16	11-1/2	3.4	8809	1
1-1/2	2-25/64	15/16	11-1/2	3.3	8809A	1
1-5/8	2-21/32	1-1/16	12	4.0	8810	1
1-11/16	2-21/32	1-1/16	12	4.0	8810A	1
1-3/4	2-21/32	1-1/16	12	3.9	8811B	1
1-13/16	3-3/32	1-3/16	13	5.4	8811	1
1-7/8	3-3/32	1-3/16	13	5.4	8811A	1
1-15/16	3-3/32	1-3/16	13	5.3	8812A	1
2	3-3/32	1-3/16	13	5.2	8812	1
2-1/8	3-17/32	1-5/16	13-1/2	6.9	8813B	1
2-3/16	3-17/32	1-5/16	13-1/2	6.9	8813	1
2-1/4	3-17/32	1-5/16	13-1/2	6.7	8813A	1
2-5/16	3-13/16	1-7/16	14	8.1	8814A	1
2-3/8	3-13/16	1-7/16	14	7.8	8814	1
2-1/2	3-13/16	1-7/16	14	7.8	8815B	1
2-9/16	4-7/32	1-5/8	15	10.6	8815	1
2-5/8	4-7/32	1-5/8	15	10.5	8815A	1
2-3/4	4-7/32	1-5/8	15	10.2	8816	1
2-7/8	4-25/32	1-7/8	16	14.0	8816C	1
2-15/16	4-25/32	1-7/8	16	13.8	8816B	1
3	4-25/32	1-7/8	16	13.7	8817	1
3-1/8	4-25/32	1-7/8	16	13.3	8817A	1
3-3/8	6-1/4	2-3/8	18	26.7	8818A	1
3-1/2	6-1/4	2-3/8	18	26.3	8818	1
3-3/4	6-1/4	2-3/8	18	25.3	8819B	1
3-7/8	6-1/4	2-3/8	18	24.8	8819	1
4-1/8	6-1/4	2-3/8	18	23.6	8819C	1
4-1/4	6-1/4	2-3/8	18	22.9	8819A	1
32 mm	52.5 mm	21.5 mm	279.5 mm	2.6	8832MM	1
36 mm	60.5 mm	24.0 mm	292.0 mm	3.4	8836MM	1
41 mm	67.5 mm	27.0 mm	305.0 mm	4.0	8841MM	1
46 mm	78.5 mm	30.0 mm	330.0 mm	5.4	8846MM	1
50 mm	78.5 mm	30.0 mm	330.0 mm	5.2	8850MM	1
55 mm	89.5 mm	33.5 mm	343.0 mm	6.9	8855MM	1
60 mm	97.0 mm	36.5 mm	355.5 mm	7.8	8860MM	1
65 mm	107.0 mm	41.5 mm	381.0 mm	10.6	8865MM	1
70 mm	107.0 mm	41.5 mm	381.0 mm	10.2	8870MM	1
75 mm	121.5 mm	47.5 mm	406.5 mm	13.8	8875MM	1
80 mm	121.5 mm	47.5 mm	406.5 mm	13.3	8880MM	1

Tube or Strike Free Wrench

24" Handle		36" Handle			
24TWH		36TWH			
Part Number	Opening	Part Number	Opening	Part Number	Opening
8707	1-1/16	8710A	1-11/16	8714	2-3/8
8707A	1-1/8	8711B	1-3/4	8715B	2-1/2
8708B	1-3/16	8711	1-13/16	8715	2-9/16
8708	1-1/4	8711A	1-7/8	8715A	2-5/8
8708A	1-5/16	8712A	1-15/16	8716	2-3/4
8709B	1-3/8	8712	2	8716C	2-7/8
8709	1-7/16	8713B	2-1/8	8716B	2-15/16
8709A	1-1/2	8713	2-3/16	8717	3
8710	1-5/8	8713A	2-1/4	8717A	3-1/8
-	-	8714A	2-5/16	-	-

Wrench Retainer



Part Number	Fits Stud Size	Length	Weight (lb)
HT58	5/8" - 11	2"	8 oz
HT34	3/4" - 10	2-3/16"	10 oz
HT78	7/8" - 9	2-3/8"	13 oz
HT100	1" - 8	2-1/2"	1
HT118	1-1/8" - 8	2-11/16"	1.1
HT114	1-1/4" - 8	2-7/8"	1.4
HT138	1-3/8" - 8	3-1/16"	1.5
HT112	1-1/2" - 8	3-1/4"	1.6
HT158	1-5/8" - 8	3-3/8"	1.9
HT134	1-3/4" - 8	3-9/16"	2.1
HT178	1-7/8" - 8	3-3/4"	2.4
HT200	2" - 8	3-15/16"	2.5
HT214	2-1/4" - 8	4-1/4"	2.9
HT212	2-1/2" - 8	4-5/8"	3.6

Wrench Retainer Set

Part Number	Description	Weight (lb)
HT34178	Set of 10, 1 of each size HT34 to HT178	22

Hex Key Wrench Sets

	Part Number	Approx. Wt. (lb)	Quantity		Part Number	Approx. Wt. (lb)	Quantity
	13S	.75	1		11SA	.6	1
Contains 13 keys, short arm series, each in a separate size-marked pocket, inch sizes: .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8. Kit Bag C691				11 keys, short arm series, inch sizes: .050, 1/16, 5/64, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8. Kit Bag C691			
	Part Number	Approx. Wt. (lb)	Quantity		Part Number	Approx. Wt. (lb)	Quantity
	9L	.9	1		9S	.3	1
9 keys, 6" long arm series, inch sizes: 5/64, 3/32, 1/8, 5/32, 3/16, 17/32, 1/4, 5/16, 3/8. Kit Bag C591				9 keys, short arm series, inch sizes: 5/64, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8. Kit Bag C691			
	Part Number	Approx. Wt. (lb)	Quantity		Part Number	Approx. Wt. (lb)	Quantity
	9SM	.58	1		7S	.25	1
9 metric keys, short arm series, mm sizes: 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10. Kit Bag C691				7 keys, short arm series, inch sizes: 5/64, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4. Kit Bag C791			
	Part Number	Approx. Wt. (lb)	Quantity		Part Number	Approx. Wt. (lb)	Quantity
	11S	1.6	1		7SM	.66	1
11 keys, short arm series, inch sizes: 5/64, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8, 1/2, 9/16. Kit Bag C691				7 metric keys, short arm series, mm sizes: 2, 2.5, 3, 4, 5, 6, 8. Kit Bag C691			

JackKey Wrench Sets

	Part Number	Approx. Wt. (lb)	Quantity		Part Number	Approx. Wt. (lb)	Quantity	
	5LK	1.62	1		9LK	1.06	1	
JackKey® Set with 5 long bits in inch sizes: 3/16, 7/32, 1/4, 5/16, 3/8. Bit lengths 33/8" - 5". Handle length 5-1/4".				JackKey® Set with 9 bits in inch sizes: .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16.				
	Part Number	Approx. Wt. (lb)	Quantity		Part Number	Approx. Wt. (lb)	Quantity	
	7LKM	.15	1		8SK	.3	1	
Metric JackKey® Set with 7 bits in mm sizes: 1.5, 2, 2.5, 3, 4, 5, 6. Bit lengths 38-50 mm. Handle length 100 mm.				JackKey® Set with 8 bits in inch sizes: .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32. Bit lengths 2" - 2-1/2". Handle length 3".				
	Part Number	Approx. Wt. (lb)	Quantity		Part Number	Approx. Wt. (lb)	Quantity	
	8LK	2.02	1		9SK	1.06	1	
JackKey® Set with 8 long bits in inch sizes: 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4. Bit lengths 5" - 5-1/2". Handle length 6-1/4".				JackKey® Set with 9 bits in inch sizes: 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4. Bit lengths 3" - 3-1/2". Handle length 4".				
Part Number	Approx. Wt. (lb)	Quantity		Part Number	Approx. Wt. (lb)	Quantity		
8SC	.34	1		7SCM	.4	1		
Handle Length: 3-1/2". Contains 8 bits in inch sizes: .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32.			Handle Length: 3-1/2". Contains 7 bits in metric sizes: 1.5, 2, 2.5, 3, 4, 5, 6.					
Part Number	Approx. Wt. (lb)	Quantity	Part Number	Approx. Wt. (lb)	Quantity	Part Number	Approx. Wt. (lb)	Quantity
9SC	.34	1	9SAC	.6	1	7SCT	.34	1
Handle Length: 3-1/2". Contains 9 bits in inch sizes: .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16.			Handle Length: 4-1/4". Contains 9 bits in inch sizes: 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4.			Handle Length: 4-1/4". Contains 7 TORX® bits: T-10, T-15, T-20, T-25, T-27, T-30, T-40.		

Offset & Tee-Handle Socket Wrenches



Offset Socket Wrench

- Forged from High Grade Carbon Steel

- Special Bends, Lengths Available as Made-to-Order.

Square Opening – 4-Point	Wrench Opening	Handle Offset in Clear from Face of Wrench	Diameter of Head	Length	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Wrench Opening
		A	B	C				
	1/4	13/16	1/2	3-3/8	.07	261J	6	1/4
	5/16	1	5/8	3-7/8	.12	262H	6	5/16
	3/8	1-1/8	11/16	4-5/16	.23	263H	6	3/8
	7/16	1-1/8	7/8	5-7/8	.42	265H	6	7/16
	1/2	1-1/4	1	6-1/4	.59	266H	6	1/2
	9/16	1-7/16	1-1/8	6-3/4	.85	267H	6	9/16
	5/8	1-9/16	1-1/4	7-1/2	.94	268H	6	5/8
	3/4	1-5/8	1-3/8	8-3/8	1.2	269H	6	3/4
	1-1/4	3	2-3/8	14-7/8	5.3	276H	1	1-1/4

Hexagon Opening – 6-Point	Wrench Opening	Handle Offset in Clear from Face of Wrench	Diameter of Head	Length	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Wrench Opening
		A	B	C				
	7/16	1-1/8	11/16	4-5/16	.21	263D	6	7/16
	1/2	1-1/4	3/4	5-1/8	.33	264A	6	1/2
	9/16	1-7/16	7/8	5-7/8	.46	265D	6	9/16
	5/8	1-9/16	1	6-1/4	.53	266D	6	5/8
	3/4	1-5/8	1-1/8	6-3/4	.79	267D	6	3/4
	7/8	2-1/4	1-3/8	8-3/8	1.02	269A	6	7/8
	15/16	2-1/4	1-1/2	9-1/8	1.7	270S	6	15/16
	1-1/16	2-3/4	1-5/8	10	1.8	271A	1	1-1/16
	1-1/8	2-3/4	1-5/8	10	1.9	271D	1	1-1/8
	1-1/4	3	1-7/8	11-5/8	2.7	273A	1	1-1/4
	1-7/16	3-1/4	2-1/8	13-1/4	4.1	275A	1	1-7/16
	1-1/2	3-1/4	2-1/8	13-1/4	4.1	275D	1	1-1/2
	1-5/8	3-1/2	2-3/8	14-7/8	5.8	276A	1	1-5/8

Tee-Handle Socket Wrench

- Upset Forged from Carbon Steel

- Pin Handle Can Be Removed, Enabling Use of a Wrench on Hex End of Shank
- Special Lengths Can Be Ordered in Quantities

Square Opening – 4-Point	Wrench Opening	Diameter of Head	Size Hex on Handle End	Length of Pin Handle	Overall Length	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Wrench Opening
		A	B	C	D				
	3t/16	1/2	13/32	4-1/2	4-1/4	.12	961H	6	3/16
	1/4	1/2	13/32	4-1/2	4-1/4	.12	961J	6	1/4
	5/16	5/8	17/32	4-1/2	4-1/2	.17	962H	6	5/16
	3/8	11/16	5/8	4-1/2	4-7/8	.29	963H	6	3/8
	7/16	7/8	3/4	5-1/2	5-3/4	.57	965H	12	7/16
	1/2	1	3/4	6-1/8	6-1/8	.68	966H	12	1/2
	9/16	1-1/8	7/8	6-1/8	6-1/2	.94	967H	6	9/16
	5/8	1-1/4	7/8	7	7	1.18	968H	6	5/8
	3/4	1-3/8	7/8	7	7 3/8	1.20	969H	1	3/4
	7/8	1-5/8	1-1/4	8-1/4	8-1/4	2.2	971H	1	7/8

Hexagon Opening – 6-Point	Wrench Opening	Diameter of Head	Size Hex on Handle End	Length of Pin Handle	Overall Length	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Wrench Opening
		A	B	C	D				
	5/16	1/2	13/32	4-1/2	4-1/4	.12	961A	6	5/16
	3/8	5/8	17/32	4-1/2	4-1/2	.17	962D	6	3/8
	7/16	11/16	5/8	4-1/2	4-7/8	.28	963D	6	7/16
	1/2	3/4	11/16	5-1/2	5-1/4	.40	964A	12	1/2
	9/16	7/8	3/4	5-1/2	5-3/4	.56	965D	12	9/16
	5/8	1	3/4	6-1/8	6-1/8	.68	966D	12	5/8
	11/16	1-1/8	7/8	6-1/8	6-1/2	.94	967A	6	11/16
	3/4	1-1/8	7/8	6-1/8	6-1/2	.91	967D	6	3/4
	7/8	1-3/8	7/8	7	7-3/8	1.24	969A	1	7/8
	15/16	1-1/2	1-1/16	7-7/8	7-7/8	1.8	970S	1	15/16
	1	1-1/2	1-1/16	7-7/8	7-7/8	1.9	970D	1	1
	1-1/16	1-5/8	1-1/4	8-1/4	8-1/4	2.3	971A	1	1-1/16
	1-1/8	1-5/8	1-1/4	8-1/4	8-1/4	2.2	971D	1	1-1/8
	1-1/4	1-7/8	1-1/4	8-1/4	9-1/8	3.0	973A	1	1-1/4
	1-5/16	1-7/8	1-1/4	8-1/4	9-1/8	2.9	973B	1	1-5/16
	1-1/2	2-1/8	1-7/16	8-1/4	10	3.8	975D	1	1-1/2
	1-5/8	2-3/8	1-5/8	10-3/8	10-3/8	5.5	976A	1	1-5/8



Tool Box Included - BX21



M46K			
ADJUSTABLE WRENCHES		3/8" DRIVE SOCKET SET	
6"	A6	1/4"	B1208
		5/16"	B1210
		3/8"	B1212
COMBINATION WRENCH SET			
1/4"	1158	7/16"	B1214
5/16"	1159	1/2"	B1216
3/8"	1160	9/16"	B1218
7/16"	1161	5/8"	B1220
1/2"	1162	11/16"	B1222
9/16"	1163	3/4"	B1224
5/8"	1164	15/16" x 15/16	3719
11/16"	1165	1 x 1	3720
3/4"	1166	Kit Bag	C111
13/16"	1167A	13/16"	B1226
7/8"	1167	7/8"	B1228
Kit Bag	C110	15/16"	B1230
Kit Bag	C55	1"	B1232
15/16"	1168	7" Rev. Ratchet	B52
1"	1170	3" Ext.	B103
1-1/16"	1171	6" Ext.	B105
1-1/8"	1172	Universal	B140A
1-1/4"	1173	Flex Handle	B40A
HAMMERS		CHISEL & PUNCH	
12 oz Ball Peen	104G	3/16" Pin Punch	P6
		1/4" Center Punch	P38
		1/2" Cold Chisel	C16
		7/16"	1161
PLIERS & SCREWDRIVERS			
8" Combination Slip Joint Pliers			P208
6" Diagonal Cutting Pliers			P206
6-1/2" Long Chain Nose Side Cutting Pliers			P506
6" Square Blade Screwdriver			SDS6
6" No. 3 Phillips Screwdriver			SDP6

M46KM			
ADJUSTABLE WRENCHES		3/8" DRIVE SOCKET SET	
6"	A6	8 mm	BM1208
		9 mm	BM1209
		10 mm	BM1210
COMBINATION WRENCH SET			
7 mm	1107MM	11 mm	BM1211
8 mm	1108MM	12 mm	BM1212
9 mm	1109MM	13 mm	BM1213
10 mm	1110MM	14 mm	BM1214
11 mm	1111MM	15 mm	BM1215
12 mm	1112MM	16 mm	BM1216
13 mm	1113MM	17 mm	BM1217
14 mm	1114MM	18 mm	BM1218
15 mm	1115MM	19 mm	BM1219
16 mm	1116MM	Adaptor	BS130
17 mm	1117MM	7" Rev. Ratchet	B52
Kit Bag	C110	3" Ext.	B103
Kit Bag	C55	6" Ext.	B105
24 mm	1124MM	Universal	B140A
26 mm	1126MM	Flex Handle	B40A
28 mm	1128MM	6" Ext.	B105
29 mm	1129MM	Universal	B140A
30 mm	1130MM	Flex Handle	B40A
HAMMERS		CHISEL & PUNCH	
12 oz Ball Peen	104G	3/16" Pin Punch	P6
		1/4" Center Punch	P38
		1/2" Cold Chisel	C16
		7/16"	1161
PLIERS & SCREWDRIVERS			
8" Combination Slip Joint Pliers			P208
6" Diagonal Cutting Pliers			P206
6-1/2" Long Chain Nose Side Cutting Pliers			P506
6" Square Blade Screwdriver			SDS6
6" No. 3 Phillips Screwdriver			SDP6

Mechanic's Set Industrial



Tool Box Included - BX26



M100K

3/8" DRIVE SOCKET SET		1/2" DRIVE SOCKET SET	
1/4"	B1208	3/8"	ST1212
5/16"	B1210	7/16"	ST1214
3/8"	B1212	1/2"	ST1216
7/16"	B1214	9/16"	ST1218
1/2"	B1216	5/8"	ST1220
9/16"	B1218	11/16"	ST1222
5/8"	B1220	3/4"	ST1224
11/16"	B1222	13/16"	ST1226
3/4"	B1224	7/8"	ST1228
13/16"	B1226	15/16"	ST1230
7/8"	B1228	1"	ST1232
15/16"	B1230	1-1/16"	ST1234
1"	B1232	1-1/8"	ST1236
3" Ext.	B103	1-3/16"	ST1238
6" Ext.	B105	1-1/4"	ST1240
Flex Handle	B40A	5" Ext.	S110P
Universal Joint	B140A	10" Ext.	S115P
7" Rev. Ratchet	B52	Flex Handle	SF41
		Rev. Ratchet	SF51
COMBINATION WRENCHES			
1/4"	1158		
5/16"	1159		
3/8"	1160		
7/16"	1161		
1/2"	1162		
9/16"	1163		
5/8"	1164		
11/16"	1165		
3/4"	1166		
13/16"	1167A		
7/8"	1167		
Kit Bag	C110		
5/16"	1168		
1"	1170		
1-1/16"	1171		
1-1/8"	1172		
1-1/4"	1173		
Kit Bag	C55		
CHISEL & PUNCH			
3/16" Pin	P6		
3/16" Center	P40		
1/2" Cold	C16		
1/4" Pin	P8		
1/4" Center	P42		
3/4" Cold	C24		
1/16" Pin	P2		
1/4" Taper	P27		
HEX KEY WRENCH SET			
13 pcs. Short Arm Series	13S		
FLARE NUT WRENCHES			
3/8"		4112	
7/16"		4114	
1/2"		4116	
9/16"		4118	
C-CLAMPS			
0 - 3"		CC403	
0 - 6-1/16"		CC406	
HAMMERS			
12 oz		104G	
1.50 lb		HSB15	
1.25 lb		HPD1	
SCREWDRIVERS & PLIERS			
8" Combo		P208	
6" Diagonal		P206	
6-1/2" Chain Nose		P506	
10" Groove		P510	
4" Square Blade		SDS4	
6" Square Blade		SDS6	
10" Square Blade		SDS10	
3" Phillips No. 1		SDP3	
4" Phillips No. 2		SDP4	
6" Phillips No. 3		SDP6	
1-1/2" Stubby No. 2		SDP1	
ADJUSTABLE & PIPE WRENCHES			
6"		A6	
10"		A10	
10"		PW10	

M100KM

3/8" DRIVE SOCKET SET		1/2" DRIVE SOCKET SET	
8 mm	BM1208	10 mm	STM1210
9 mm	BM1209	11 mm	STM1211
10 mm	BM1210	12 mm	STM1212
11 mm	BM1211	13 mm	STM1213
12 mm	BM1212	14 mm	STM1215
13 mm	BM1213	17 mm	STM1217
14 mm	BM1214	19 mm	STM1219
15 mm	BM1215	22 mm	STM1222
16 mm	BM1216	23 mm	STM1223
17mm	BM1217	24 mm	STM1224
18 mm	BM1218	25 mm	STM1225
19 mm	BM1219	26 mm	STM1226
Adaptor	BS130	27 mm	STM1227
3" Ext.	B103	30 mm	STM1230
5" Ext.	B105	32 mm	STM1232
Flex Handle	B40A	5" Ext.	S110P
Universal Joint	B140A	10" Ext.	S115P
7" Rev. Ratchet	B52	Flex Handle	SF41
		Rev. Ratchet	SF51
COMBINATION WRENCHES			
7 mm	1107MM		
8 mm	1108MM		
9 mm	1109MM		
10 mm	1110MM		
11 mm	1111MM		
12 mm	1112MM		
13 mm	1113MM		
14 mm	1114MM		
15 mm	1115MM		
16 mm	1116MM		
17 mm	1117MM		
Kit Bag	C110		
24 mm	1124MM		
26 mm	1126MM		
28 mm	1128MM		
29 mm	1129MM		
30 mm	1130MM		
Kit Bag	C55		
CHISEL & PUNCH			
3/16" Pin	P6		
3/16" Center	P40		
1/2" Cold	C16		
1/4" Pin	P8		
1/4" Center	P42		
3/4" Cold	C24		
1/16" Pin	P2		
1/4" Taper	P27		
HEX KEY WRENCH SET			
13 pcs. Short Arm Series	13S		
FLARE NUT WRENCHES			
3/8"		4112	
7/16"		4114	
1/2"		4116	
9/16"		4118	
C-CLAMPS			
0 - 3"		CC403	
0 - 6-1/16"		CC406	
HAMMERS			
12 oz		104G	
1.50 lb		HSB15	
1.25 lb		HPD1	
SCREWDRIVERS & PLIERS			
8" Combo		P208	
6" Diagonal		P206	
6-1/2" Chain Nose		P506	
10" Groove		P510	
4" Square Blade		SDS4	
6" Square Blade		SDS6	
10" Square Blade		SDS10	
3" Phillips No. 1		SDP3	
4" Phillips No. 2		SDP4	
6" Phillips No. 3		SDP6	
1-1/2" Stubby No. 2		SDP1	
ADJUSTABLE & PIPE WRENCHES			
6"		A6	
10"		A10	
10"		PW10	

MB20K

1/4" DRIVE SOCKET SET

3/16" 6 Point Std. Socket	M606
7/32" 6 Point Std. Socket	M607
1/4" 6 Point Std. Socket	M608
9/32" 6 Point Std. Socket	M609
5/16" 6 Point Std. Socket	M610
11/32" 6 Point Std. Socket	M611
Spinner Handle	M106

3/8" DRIVE SOCKET SET

3/8" 6 Point Std. Socket	B612
7/16" 6 Point Std. Socket	B614
1/2" 6 Point Std. Socket	B616
9/16" 6 Point Std. Socket	B618
5/8" 6 Point Std. Socket	B620
11/16" 6 Point Std. Socket	B622
3/4" 6 Point Std. Socket	B624
13/16" 6 Point Std. Socket	B626
8" Reversible Ratchet	B52
3" Extension	B103
6" Extension	B105
5/8" Spark Plug Socket	BD620P
Adaptor 3/8"F to 1/4"M	BS129
Metal Box	98



MBM20K

1/4" DRIVE SOCKET SET

5 mm 6 Point Std. Socket	MM605
6 mm 6 Point Std. Socket	MM606
7 mm 6 Point Std. Socket	MM607
8 mm 6 Point Std. Socket	MM608
9 mm 6 Point Std. Socket	MM609
10 mm 6 Point Std. Socket	MM610
Spinner Handle	M106

3/8" DRIVE SOCKET SET

12 mm 6 Point Std. Socket	BM612
13 mm 6 Point Std. Socket	BM613
14 mm 6 Point Std. Socket	BM614
15 mm 6 Point Std. Socket	BM615
16 mm 6 Point Std. Socket	BM616
17 mm 6 Point Std. Socket	BM617
18 mm 6 Point Std. Socket	BM618
19 mm 6 Point Std. Socket	BM619
8" Reversible Ratchet	B52
3" Extension	B103
6" Extension	B105
5/8" Spark Plug Socket	BD620P
Adaptor 3/8"F to 1/4"M	BS129
Metal Box	98

Metric



MB28K

1/4" DRIVE SOCKET SET

1/4" 6 Point Std. Socket	M608
9/32" 6 Point Std. Socket	M609
5/16" 6 Point Std. Socket	M610
11/32" 6 Point Std. Socket	M611
3/8" 6 Point Std. Socket	M612
7 mm 6 Point Std. Socket	MM607
8 mm 6 Point Std. Socket	MM608
9 mm 6 Point Std. Socket	MM609
10 mm 6 Point Std. Socket	MM610
11 mm 6 Point Std. Socket	MM611
Spinner Handle	M106

3/8" DRIVE SOCKET SET

7/16" 6 Point Std. Socket	B614
1/2" 6 Point Std. Socket	B616
9/16" 6 Point Std. Socket	B618
5/8" 6 Point Std. Socket	B620
11/16" 6 Point Std. Socket	B622
3/4" 6 Point Std. Socket	B624
12 mm 6 Point Std. Socket	BM612
13 mm 6 Point Std. Socket	BM613
14 mm 6 Point Std. Socket	BM614
15 mm 6 Point Std. Socket	BM615
17 mm 6 Point Std. Socket	BM617
19 mm 6 Point Std. Socket	BM619
8" Reversible Ratchet	B52
3" Extension	B103
6" Extension	B105
5/8" Spark Plug Socket	BD620P
Adaptor 3/8"F to 1/4"M	BS129
Metal Box	98



Torque Wrenches



Click-Type Micrometer Adjustable Torque Wrench

Part Number	Type	Drive	Range		Grads		Length (in)	Weight (lb)
			ft-lb	Nm	ft-lb	Nm		
TQ-12	Click	1/2	30-250	47.5-345	1	1.4	22 1/2	4.3
TQ-34	Click	3/4	100-600	170-850	5	6.8	46	17.0
TQ-100	Click	1	200-1000	271-1356	5	6.8	46 1/2	22.0

- ±3% CW & ±5% CCW Accuracy
- Aluminum Knurled Handle
- Easy-to-Read Laser Etched Dual Scale (ft-lb & nm)
- Exceeds Accuracy Range - ASME B107314-2004
- Calibration Certificate Included, 100% Traceability
- 1/2" Drive – 36 Tooth Quick Release Reversible Ratchet
- 3/4" And 1" Drives – 24 Tooth Quick Release Reversible Ratchet

Item	Part Number	Description
	TQ-12	1/2" Drive – 30-250 ft-lb / 47.5-345 nm
	TQ-34	3/4" Drive - 100-600 ft-lb / 169-847 nm
	TQ-100	1" Drive - 200-1000 ft-lb / 271-1356 nm

1/2" Drive Electronic Torque & Angle Meter

Part Number	Drive	Range				Resolution				Weight (lb)
		in-lb	ft-lb	Nm	Angle	in-lb	ft-lb	Nm	Angle	
PTM-12	1/2	120-3000	10-250	13.5-340	0-90	0.03	0.6	0.06	1	0.68

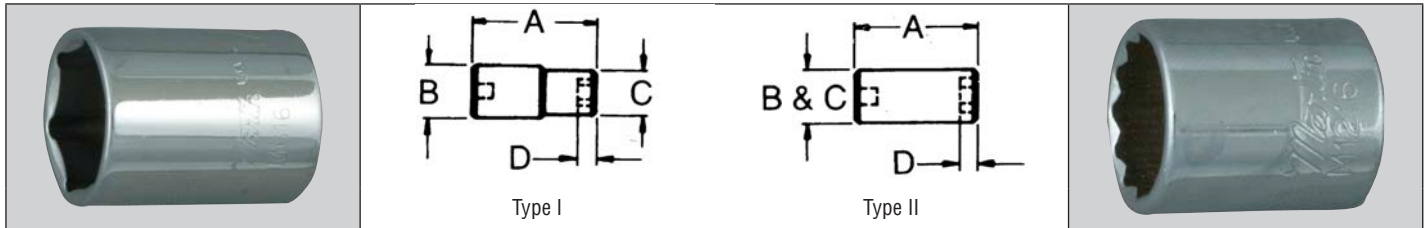


- 120 - 300 In-lb, 10 - 2550 ft-lb, 13.5 - 340 nm
- Can Be Used With Any Wrench, Breaker Bar, or Hand Driver
- Compliant With Both ISO & ASME B107-28 (Type 1) Standards
- ±1% Accuracy Of Torque Reading (CW & CCW)
- Warning LED, Buzzer, & Vibration
- Self-Contained Torque & Angle Meter
- Angle Preset From 5° to 360°
- Angle Memory During Ratcheting
- Li-Ion Polymer Rechargeable Battery
- Up To 200 hrs of Continuous Operation
- Easy-To-Use, No Training Needed
- Auto Power Off After 2 Minutes



1/4" Drive Sockets & Attachments – Chrome

Type	Item	Description	Part Number	Std. Pkg. Qty.
Ratchet		Chrome 43 tooth Head diameter 1" Length 5 1/2" Weight .40 lb	M52	6
Ratchet Replacement Head		Preassembled Ratchet Replacement Head Weight .19 lb	M52RD	1
Extension Bar		3" Extension Bar Weight .17 lb	M103	6
Spinner		Spinner Handle Length 6"	M106	6



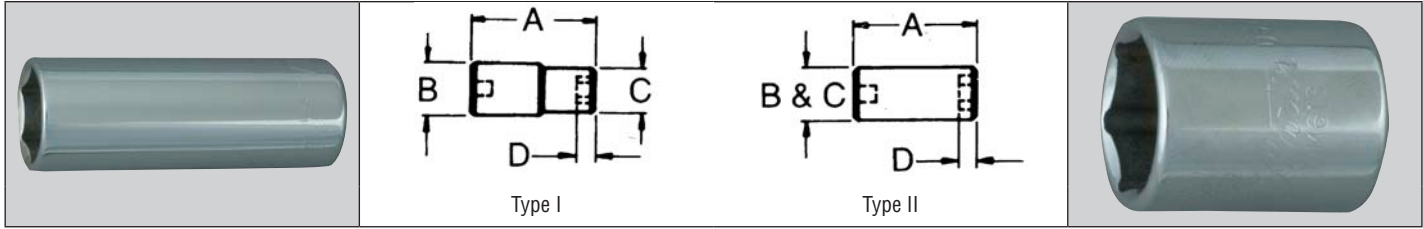
1/4" Square Drive 12 Point Standard

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Opening
		A	B	C	D		Chrome		
3/16	I	13/16	31/64	5/16	7/32	.01	M1206	6	3/16
7/32	I	13/16	31/64	23/64	15/64	.01	M1207	6	7/32
1/4	I	13/16	31/64	25/64	1/4	.01	M1208	6	1/4
9/32	I	13/16	31/64	7/16	19/64	.02	M1209	6	9/32
5/16	II	13/16	—	31/64	21/64	.02	M1210	6	5/16
11/32	II	13/16	—	33/64	21/64	.03	M1211	6	11/32
3/8	II	13/16	—	9/16	5/16	.03	M1212	6	3/8
7/16	II	13/16	—	5/8	21/64	.04	M1214	6	7/16
1/2	II	13/16	—	45/64	13/32	.04	M1216	6	1/2

1/4" Square Drive 6 Point Standard

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Opening
		A	B	C	D		Chrome		
5/32	I	13/16	31/64	9/32	7/32	.01	M605	6	5/32
3/16	I	13/16	31/64	5/16	7/32	.01	M606	6	3/16
7/32	I	13/16	31/64	23/64	15/64	.01	M607	6	7/32
1/4	I	13/16	31/64	25/64	1/4	.01	M608	6	1/4
9/32	I	13/16	31/64	7/16	19/64	.02	M609	6	9/32
5/16	II	13/16	—	31/64	21/64	.02	M610	6	5/16
11/32	II	13/16	—	33/64	21/64	.03	M611	6	11/32
3/8	II	13/16	—	9/16	5/16	.03	M612	6	3/8
7/16	II	13/16	—	5/8	21/64	.04	M614	6	7/16
1/2	II	13/16	—	45/64	13/32	.04	M616	6	1/2

1/4" Drive Sockets & Sets – Chrome



1/4" Square Drive 6 Point Deep

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Opening
		A	B	C	D		Chrome		
3/16	I	1-61/64	15/32	5/16	13/64	.05	MD606	6	3/16
7/32	I	1-61/64	15/32	23/64	15/64	.06	MD607	6	7/32
1/4	I	1-61/64	15/32	25/64	11/32	.06	MD608	6	1/4
9/32	I	1-61/64	15/32	7/16	11/32	.06	MD609	6	9/32
5/16	II	1-61/64	—	15/32	13/32	.06	MD610	6	5/16
11/32	II	1-61/64	—	33/64	35/64	.06	MD611	6	11/32
3/8	II	1-61/64	—	37/64	35/64	.09	MD612	6	3/8
7/16	II	1-61/64	—	5/8	35/64	.09	MD614	6	7/16
1/2	II	1-61/64	—	45/64	35/64	.11	MD616	6	1/2

1/4" Square Drive 6 Point Standard — Metric

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Opening
		A	B	C	D		Chrome		
4 mm	I	21.1 mm	12.1 mm	7.1 mm	5.3 mm	.05	MM604	6	4 mm
5 mm	I	21.1 mm	12.1 mm	8.6 mm	5.1 mm	.05	MM605	6	5 mm
6 mm	I	21.1 mm	12.1 mm	10.2 mm	6.6 mm	.05	MM606	6	6 mm
7 mm	I	21.1 mm	12.1 mm	11.2 mm	7.6 mm	.05	MM607	6	7 mm
8 mm	II	21.1 mm	—	12.2 mm	8.4 mm	.05	MM608	6	8 mm
9 mm	II	21.1 mm	—	14.2 mm	8.4 mm	.06	MM609	6	9 mm
10 mm	II	21.1 mm	—	14.9 mm	8.4 mm	.06	MM610	6	10 mm
11 mm	II	21.1 mm	—	16.0 mm	8.4 mm	.06	MM611	6	11 mm
12 mm	II	21.1 mm	—	17.0 mm	9.1 mm	.07	MM612	6	12 mm
13 mm	II	21.1 mm	—	17.8 mm	10.2 mm	.08	MM613	6	13 mm

M12K

1/4" DRIVE SOCKET SET

3/16" 6 Pt. Std. Socket	M606	7/16" 6 Pt. Std. Socket	M614
7/32" 6 Pt. Std. Socket	M607	1/2" 6 Pt. Std. Socket	M616
1/4" 6 Pt. Std. Socket	M608	RATCHET	M52
9/32" 6 Pt. Std. Socket	M609	3" EXTENSION BAR	M103
5/16" 6 Pt. Std. Socket	M610	6" SPINNER	M106
11/32" 6 Pt. Std. Socket	M611	Metal Box	91
3/8" 6 Pt. Std. Socket	M612		






M12KM

1/4" DRIVE SOCKET SET

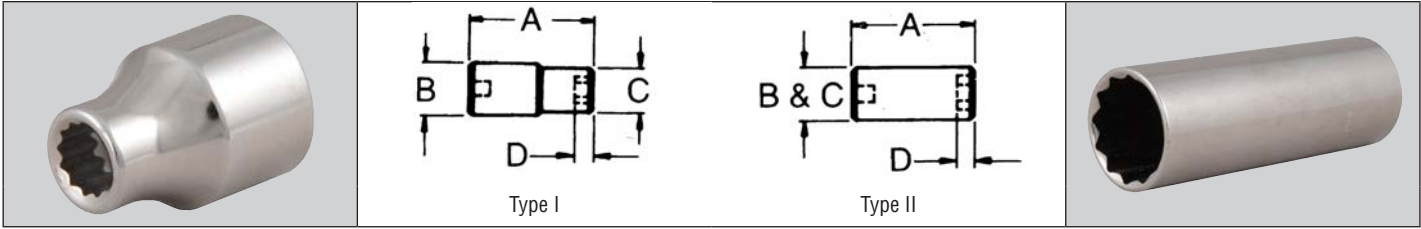
4 mm 6 Pt. Std. Socket	MM604	12 mm 6 Pt. Std. Socket	MM612
5 mm 6 Pt. Std. Socket	MM605	13 mm 6 Pt. Std. Socket	MM613
6 mm 6 Pt. Std. Socket	MM606	RATCHET	M52
7 mm 6 Pt. Std. Socket	MM607	3" EXTENSION BAR	M103
8 mm 6 Pt. Std. Socket	MM608	6" SPINNER	M106
9 mm 6 Pt. Std. Socket	MM609	Metal Box	91
10 mm 6 Pt. Std. Socket	MM610		



Metric

Type	Item	Description	Part Number	Std. Pkg. Qty.
Flexible Handle		Chrome Knurled Grip Length 7-13/16" Weight .59 lb	B40A	6
Reversible Ratchet		Chrome 41 tooth Head dia. 1-1/4" Length 8" Weight .69 lb	B52	6
Reversible Ratchet Repair Kit		Preassembled Ratchet Replacement Head Weight .19 lb	B52RD	1
Flexible Head Ratchet		Flex Head Reversible Ratchet Chrome Length 10-1/2 " .70 lb	B54	6
Flexible Head Ratchet Repair Kit		Preassembled Flexible Ratchet Replacement Head Weight .19 lb	B54RD	1
Extensions		Chrome Length 3" Weight .17 lb	B103	6
		Chrome Length 6" Weight .20 lb	B105	6
		Chrome Length 12" Weight .42 lb	B112	6
Universal Joint		Chrome Weight .13 lb	B140A	6
Adaptor		Chrome 3/8"F to 1/4"M Weight .06 lb	BS129	6
		Chrome 3/8"F to 1/2"M Weight .09 lb	BS130	6
Speeder		Chrome Revolving Grip Length 16" Weight 1.1 lb	B15	6

3/8" Drive Socket Wrenches – Chrome

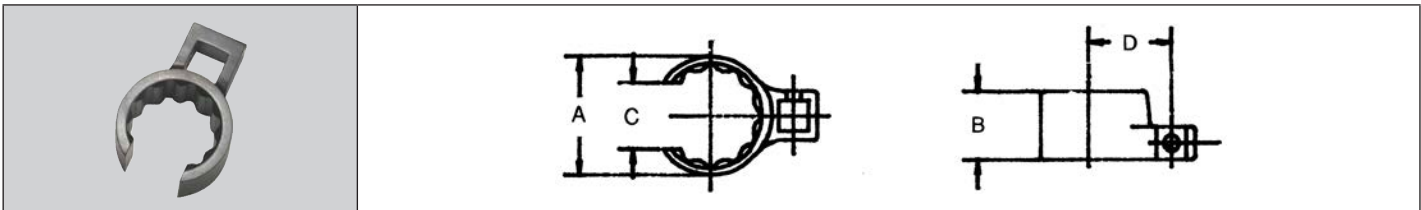


3/8" Square Drive 12 Point Standard

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Opening
		A	B	C	D		Chrome		
1/4	I	1-1/8	5/8	25/64	1/8	.04	B1208	6	1/4
5/16	I	1-1/8	5/8	15/32	9/64	.05	B1210	6	5/16
3/8	I	1-1/8	5/8	35/64	5/32	.05	B1212	6	3/8
7/16	II	1-1/8	—	5/8	7/32	.05	B1214	6	7/16
1/2	II	1-1/8	—	23/32	17/64	.06	B1216	6	1/2
9/16	II	1-1/8	—	25/32	21/64	.08	B1218	6	9/16
5/8	II	1-1/8	—	7/8	3/8	.10	B1220	6	5/8
11/16	II	1-1/8	—	15/16	3/8	.12	B1222	6	11/16
3/4	II	1-1/8	—	1	7/16	.14	B1224	6	3/4
13/16	II	1-3/16	—	1-1/16	29/64	.15	B1226	6	13/16
7/8	II	1-1/4	—	1-9/64	1/2	.18	B1228	6	7/8
15/16	II	1-9/16	—	1-1/4	35/64	.18	B1230	6	15/16
1	II	1-5/8	—	1-5/16	35/64	.19	B1232	6	1

3/8" Square Drive 12 Point Deep

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Opening
		A	B	C	D		Chrome		
3/8	I	2-7/32	5/8	35/64	5/32	.10	BD1212	6	3/8
7/16	II	2-7/32	—	5/8	7/32	.10	BD1214	6	7/16
1/2	II	2-7/32	—	23/32	17/64	.15	BD1216	6	1/2
9/16	II	2-7/32	—	25/32	21/64	.19	BD1218	6	9/16
5/8	II	2-7/32	—	7/8	3/8	.23	BD1220	6	5/8
11/16	II	2-1/2	—	59/64	3/8	.28	BD1222	6	11/16
3/4	II	2-1/2	—	63/64	7/16	.26	BD1224	6	3/4
13/16	II	2-25/32	—	1-1/16	29/64	.48	BD1226	6	13/16
7/8	II	2-7/8	—	1-5/32	1/2	.39	BD1228	6	7/8

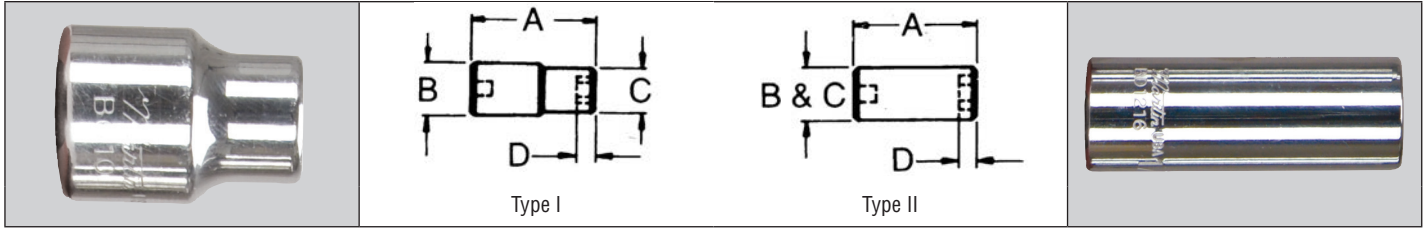


3/8" Drive Crowfoot Wrench — Flare Nut 12 Pt.

Opening	Diameter of Head	Thickness of Head	Width of Slot	Length of Centers	Weight Each (lb)	Part Number		Std. Pkg. Qty.	Opening
	A	B	C	D		Chrome	Industrial Black		
5/8	31/32	11/16	7/16	47/64	.06	BC20	BLKBC20	6	5/8
11/16	1-1/16	11/16	31/64	25/32	.06	BC22	BLKBC22	6	11/16
3/4	1-5/32	23/32	17/32	53/64	.06	BC24	BLKBC24	6	3/4
13/16	1-7/32	23/32	9/16	7/8	.06	BC26	BLKBC26	6	13/16
7/8	1-5/8	3/4	39/64	59/64	.06	BC28	BLKBC28	6	7/8
15/16	1-13/32	3/4	21/32	31/32	.06	BC30	BLKBC30	6	15/16
1	1-31/64	25/32	45/64	1-1/64	.13	BC32	BLKBC32	6	1
1-1/16	1-9/16	25/32	51/64	1-1/16	.13	BC34	BLKBC34	6	1-1/16



3/8" Drive Socket Wrenches – Chrome

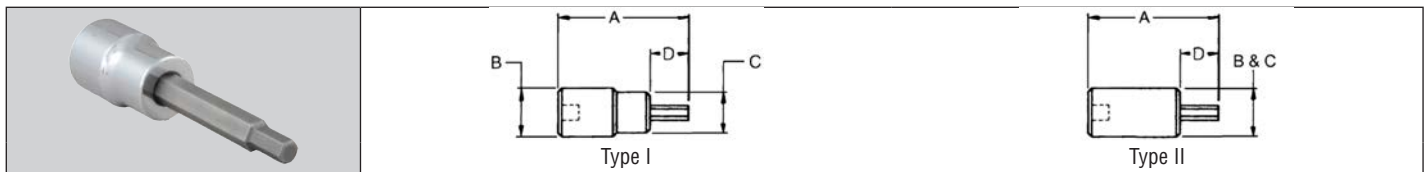


3/8" Square Drive 6 Point Standard

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Opening
		A	B	C	D		Chrome		
1/4	I	1-1/8	5/8	25/64	1/8	.04	B608	6	1/4
5/16	I	1-1/8	5/8	15/32	9/64	.04	B610	6	5/16
3/8	I	1-1/8	5/8	35/64	5/32	.05	B612	6	3/8
7/16	II	1-1/8	—	5/8	7/32	.05	B614	6	7/16
1/2	II	1-1/8	—	23/32	17/64	.07	B616	6	1/2
9/16	II	1-1/8	—	25/32	21/64	.08	B618	6	9/16
5/8	II	1-1/8	—	7/8	3/8	.10	B620	6	5/8
11/16	II	1-1/8	—	15/16	3/8	.13	B622	6	11/16
3/4	II	1-1/8	—	1	7/16	.14	B624	6	3/4
13/16	II	1-3/16	—	1-1/16	29/64	.17	B626	6	13/16
7/8	II	1-1/4	—	1-9/64	1/2	.19	B628	6	7/8
15/16	II	1-9/16	—	1-1/4	35/64	.29	B630	6	15/16
1	II	1-5/8	—	1-5/16	35/64	.33	B632	6	1

3/8" Square Drive 6 Point Deep

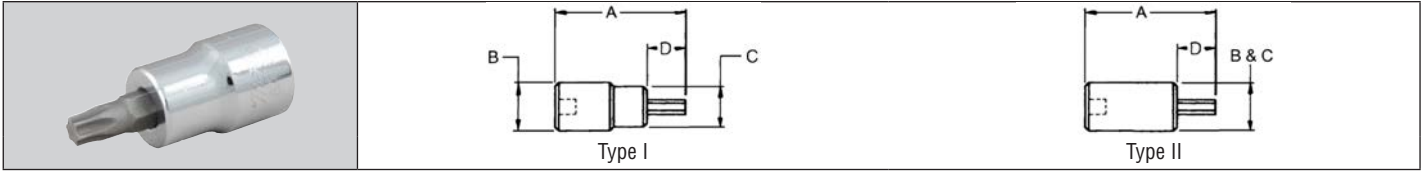
Opening	Type	Length	Drive End	Opening End	Minimum Depth	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Opening
		A	B	C	D		Chrome		
1/4	I	2-7/32	5/8	3/8	5/32	.10	BD608	6	1/4
5/16	I	2-7/32	5/8	7/16	5/32	.11	BD610	6	5/16
3/8	I	2-7/32	5/8	35/64	5/32	.12	BD612	6	3/8
7/16	II	2-7/32	—	5/8	7/32	.12	BD614	6	7/16
1/2	II	2-7/32	—	23/32	17/64	.16	BD616	6	1/2
9/16	I	2-1/4	55/64	13/16	11/32	.25	BD618	6	9/16
5/8	I	2-1/4	59/64	57/64	3/8	.30	BD620	6	5/8
11/16	II	2-5/16	—	61/64	3/8	.32	BD622	6	11/16
3/4	II	2-5/16	—	1-3/64	7/16	.37	BD624	6	3/4
13/16	II	2-25/32	—	1-1/16	29/64	.32	BD626	6	13/16
7/8	II	2-7/8	—	1-5/32	1/2	.39	BD628	6	7/8
15/16	II	3-3/64	—	1-1/4	35/64	.41	BD630	6	15/16
1	II	3-3/64	—	1-5/16	35/64	.41	BD632	6	1



3/8" Drive Hex Bit Sockets

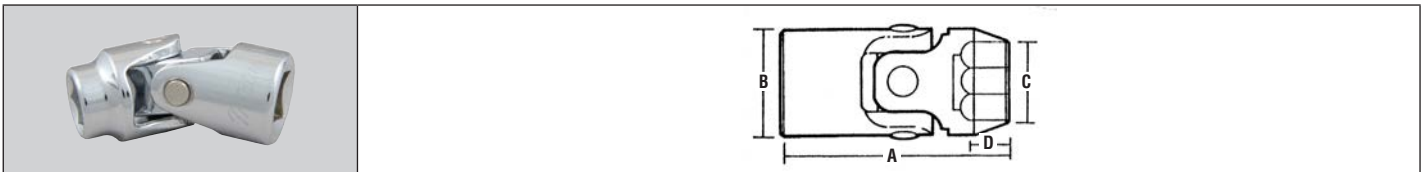
Bit Size	Type	Length	Drive End	Bit End	Bit Length	Weight Each (lb)	Part Number	Replacement Hex Bit	Std. Pkg. Qty.	Bit Size
		A	B	C	D		Chrome	Hex Bit		
1/8	I	2-21/32	11/16	19/32	1-19/32	.06	BA4	BA4B	6	1/8
5/32	I	2-21/32	11/16	19/32	1-19/32	.06	BA5	BA5B	6	5/32
3/16	I	2-21/32	11/16	19/32	1-19/32	.06	BA6	BA6B	6	3/16
7/32	I	2-21/32	11/16	19/32	1-19/32	.07	BA7	BA7B	6	7/32
1/4	I	2-21/32	11/16	19/32	1-19/32	.08	BA8	BA8B	6	1/4
5/16	I	2-7/8	11/16	19/32	1-13/16	.10	BA10	BA10B	6	5/16
3/8	II	2-15/16	11/16	11/16	1-3/4	.13	BA12	BA12B	6	3/8

3/8" Drive Socket Wrenches – Chrome



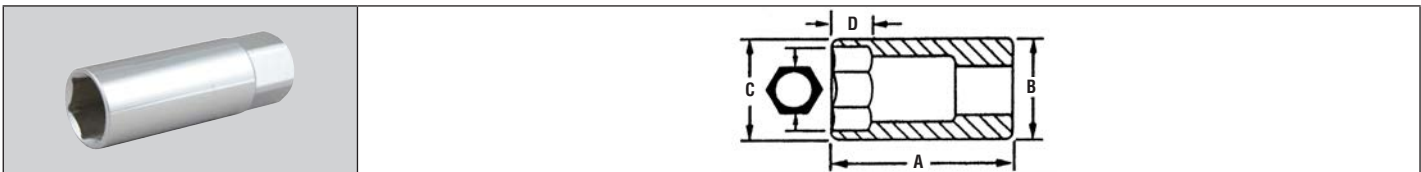
3/8" Drive Torx Bit Sockets

Bit Size	Type	Length	Drive End	Bit End	Bit Length	Weight Each (lb)	Part Number	Replacement Hex Bit	Std. Pkg. Qty.	Bit Size
		A	B	C	D		Chrome			
T10	I	1-21/32	11/16	19/32	19/32	0.05	BAT10	BAT10B	6	T10
T15	I	1-21/32	11/16	19/32	19/32	0.1	BAT15	BAT15B	6	T15
T20	I	1-21/32	11/16	19/32	19/32	0.1	BAT20	BAT20B	6	T20
T25	I	1-21/32	11/16	19/32	19/32	0.1	BAT25	BAT25B	6	T25
T27	I	1-21/32	11/16	19/32	19/32	0.1	BAT27	BAT27B	6	T27
T30	I	1-21/32	11/16	19/32	19/32	0.1	BAT30	BAT30B	6	T30
T40	I	1-53/64	11/16	19/32	49/64	0.1	BAT40	BAT40B	6	T40
T45	I	1-53/64	11/16	19/32	49/64	0.1	BAT45	BAT45B	6	T45
T50	I	1-53/64	11/16	19/32	49/64	0.1	BAT50	BAT50B	6	T50
T55	II	2-1/16	11/16	11/16	57/64	0.15	BAT55	BAT55B	6	T55



3/8" Square Drive 6 Point Flex Socket

Opening	Length	Drive End	Opening End	Minimum Depth	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Opening
	A	B	C	D		Chrome		
3/8	1-49/64	3/4	37/64	15/64	.09	BU612	6	3/8
7/16	1-55/64	3/4	43/64	5/16	.09	BU614	6	7/16
1/2	1-57/64	3/4	3/4	23/64	.13	BU616	6	1/2
9/16	1-57/64	3/4	13/16	25/64	.13	BU618	6	9/16
5/8	1-15/64	3/4	7/8	7/16	.14	BU620	6	5/8
11/16	1-31/32	3/4	31/32	15/32	.18	BU622	6	11/16
3/4	2-1/8	3/4	13/64	33/64	.19	BU624	6	3/4



3/8" Square Drive Spark Plug Sockets — Chrome

Opening	Length	Drive End	Opening End	Minimum Depth	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Opening
	A	B	C	D		Chrome		
5/8	2-1/2	3/4	55/64	51/64	.28	BD620P	6	5/8
13/16	2-3/4	7/8	1-5/64	51/64	.35	BD626P	6	13/16



3/8 " Drive Sockets & Sets – Chrome

B7K

3/8" SQUARE DRIVE 6 POINT FLEX SOCKET SET

3/8" 6 Pt. Flex Socket	BU612	5/8" 6 Pt. Flex Socket	BU620
7/16" 6 Pt. Flex Socket	BU614	11/16" 6 Pt. Flex Socket	BU622
1/2" 6 Pt. Flex Socket	BU616	3/4" 6 Pt. Flex Socket	BU624
9/16" 6 Pt. Flex Socket	BU618	Twist lock Clip Rail	213R



BA7K

3/8" DRIVE HEX BIT SOCKET SET

1/8" Hex Bit Socket 3/8" DR	BA4	1/4" Hex Bit Socket 3/8" DR	BA8
5/32" Hex Bit Socket 3/8" DR	BA5	5/16" Hex Bit Socket 3/8" DR	BA10
3/16" Hex Bit Socket 3/8" DR	BA6	3/8" Hex Bit Socket 3/8" DR	BA12
7/32" Hex Bit Socket 3/8" DR	BA7	Twist lock Clip Rail	208R



BC8K

3/8" DRIVE FLARE NUT 12 POINT CROWFOOT WRENCH SET

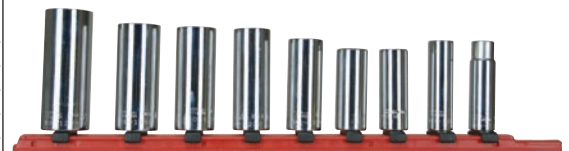
5/8" 12 Pt. Crowfoot	BC20	15/16" 12 Pt. Crowfoot	BC30
11/16" 12 Pt. Crowfoot	BC22	1" 12 Pt. Crowfoot	BC32
3/4" 12 Pt. Crowfoot	BC24	1-1/16" 12 Pt. Crowfoot	BC34
13/16" 12 Pt. Crowfoot	BC26	Twist lock Clip Rail	208R
7/8" 12 Pt. Crowfoot	BC28		



B9K

3/8" SQUARE DRIVE 12 POINT DEEP SET

3/8" 12 Pt. Deep Socket	BD1212	11/16" 12 Pt. Deep Socket	BD1222
7/16" 12 Pt. Deep Socket	BD1214	3/4" 12 Pt. Deep Socket	BD1224
1/2" 12 Pt. Deep Socket	BD1216	13/16" 12 Pt. Deep Socket	BD1226
9/16" 12 Pt. Deep Socket	BD1218	7/8" 12 Pt. Deep Socket	BD1228
5/8" 12 Pt. Deep Socket	BD1220	Twist lock Clip Rail	213R



BC10K

3/8" DRIVE HEX BIT SOCKETS SET

1/8" Hex Bit Socket 3/8" Dr.	BA4	3/8" Hex Bit Socket 3/8" Dr.	BA12
5/32" Hex Bit Socket 3/8" Dr.	BA5	1/2" Hex Bit Socket 1/2" Dr.	BA16
3/16" Hex Bit Socket 3/8" Dr.	BA6	9/16" Hex Bit Socket 1/2" Dr.	BA18
7/32" Hex Bit Socket 3/8" Dr.	BA7	5/8" Hex Bit Socket 1/2" Dr.	BA20
1/4" Hex Bit Socket 3/8" Dr.	BA8	Twist lock Clip Rail	213R
5/16" Hex Bit Socket 3/8" Dr.	BA10		



3/8 " Drive Sockets & Sets – Chrome



BAT6K			
3/8" Drive Torx Bit Socket Set			
T15 Torx®	BAT15	T30 Torx®	BAT30
T20 Torx®	BAT20	T40 Torx®	BAT40
T25 Torx®	BAT25	Twist Lock Clip Rail	208R
T27 Torx®	BAT27		



BAT8K			
3/8" Drive Torx Bit Socket Set			
T15 Torx®	BAT15	T40 Torx®	BAT40
T20 Torx®	BAT20	T45 Torx®	BAT45
T25 Torx®	BAT25	T50 Torx®	BAT50
T27 Torx®	BAT27	Twist Lock Clip Rail	208R
T30 Torx®	BAT30		



BAT10K			
3/8" Drive Torx Bit Socket Set			
T10 Torx®	BAT10	T40 Torx®	BAT40
T15 Torx®	BAT15	T45 Torx®	BAT45
T20 Torx®	BAT20	T50 Torx®	BAT50
T25 Torx®	BAT25	T55 Torx®	BAT55
T27 Torx®	BAT27	Twist Lock Clip Rail	208R
T30 Torx®	BAT30		





3/8 " Drive Sockets & Sets – Chrome

BD9K

3/8" Square Drive 6 Point Deep Socket Set

3/8" 6 Pt. Deep Socket	BD612	11/16" 6 Pt. Deep Socket	BD622
7/16" 6 Pt. Deep Socket	BD614	3/4" 6 Pt. Deep Socket	BD624
1/2" 6 Pt. Deep Socket	BD616	13/16" 6 Pt. Deep Socket	BD626
9/16" 6 Pt. Deep Socket	BD618	7/8" 6 Pt. Deep Socket	BD628
5/8" 6 Pt. Deep Socket	BD620	Twist lock Clip Rail	213R



B10K

3/8" Square Drive 12 Point Standard Socket Set

5/16" 12 Pt. Std. Socket	B1210	11/16" 12 Pt. Std. Socket	B1222
3/8" 12 Pt. Std. Socket	B1212	3/4" 12 Pt. Std. Socket	B1224
7/16" 12 Pt. Std. Socket	B1214	13/16" 12 Pt. Std. Socket	B1226
1/2" 12 Pt. Std. Socket	B1216	7/8" 12 Pt. Std. Socket	B1228
9/16" 12 Pt. Std. Socket	B1218	Twist lock Clip Rail	213R
5/8" 12 Pt. Std. Socket	B1220		



BD10K

3/8" Square Drive 12 Point Standard Socket Set

5/16" 6 Pt. Std. Socket	B610	11/16" 6 Pt. Std. Socket	B622
3/8" 6 Pt. Std. Socket	B612	3/4" 6 Pt. Std. Socket	B624
7/16" 6 Pt. Std. Socket	B614	13/16" 6 Pt. Std. Socket	B626
1/2" 6 Pt. Std. Socket	B616	7/8" 6 Pt. Std. Socket	B628
9/16" 6 Pt. Std. Socket	B618	Twist lock Clip Rail	213R
5/8" 6 Pt. Std. Socket	B620		



B11K

3/8" Square Drive 6 Point Standard Socket Set

1/4" 6 Pt. Std. Socket	B608	5/8" 6 Pt. Std. Socket	B620
5/16" 6 Pt. Std. Socket	B610	11/16" 6 Pt. Std. Socket	B622
3/8" 6 Pt. Std. Socket	B612	3/4" 6 Pt. Std. Socket	B624
7/16" 6 Pt. Std. Socket	B614	13/16" 6 Pt. Std. Socket	B626
1/2" 6 Pt. Std. Socket	B616	7/8" 6 Pt. Std. Socket	B628
9/16" 6 Pt. Std. Socket	B618	Twist lock Clip Rail	213R



3/8" Drive Sockets & Sets – Chrome



B11KM			
3/8" Drive Socket Set			
3/8" 6 Pt. Std. Socket	B612	3/4" 12 Pt. Std. Socket	B1224
7/16" 6 Pt. Std. Socket	B614	13/16" 12 Pt. Std. Socket	B1226
1/2" 6 Pt. Std. Socket	B616	7/8" 12 Pt. Std. Socket	B1228
9/16" 6 Pt. Std. Socket	B618	Ratchet	B52
5/8" 12 Pt. Std. Socket	B1220	6" Extension	B105
11/16" 12 Pt. Std. Socket	B1222	Metal Box	93



B11RK			
3/8" Drive Socket Set			
5/16" 6 Pt. Std. Socket	B610	11/16" 6 Pt. Std. Socket	B622
3/8" 6 Pt. Std. Socket	B612	3/4" 6 Pt. Std. Socket	B624
7/16" 6 Pt. Std. Socket	B614	Reversible Ratchet	B52
1/2" 6 Pt. Std. Socket	B616	3" Extension	B103
9/16" 6 Pt. Std. Socket	B618	5/8" Spark Plug Socket	BD620P
5/8" 6 Pt. Std. Socket	B620	Metal Box	93



B12K			
3/8" Drive Socket Set			
3/8" 12 Pt. Std. Socket	B1212	13/16" 12 Pt. Std. Socket	B1226
7/16" 12 Pt. Std. Socket	B1214	7/8" 12 Pt. Std. Socket	B1228
1/2" 12 Pt. Std. Socket	B1216	Reversible Ratchet	B52
9/16" 12 Pt. Std. Socket	B1218	3" Extension	B103
5/8" 12 Pt. Std. Socket	B1220	6" Extension	B105
11/16" 12 Pt. Std. Socket	B1222	Metal Box	93
3/4" 12 Pt. Std. Socket	B1224		



BD12K

3/8" Drive Socket Set

3/8" 6 Pt. Std. Socket	B612	13/16" 6 Pt. Std. Socket	B626
7/16" 6 Pt. Std. Socket	B614	7/8" 6 Pt. Std. Socket	B628
1/2" 6 Pt. Std. Socket	B616	Reversible Ratchet	B52
9/16" 6 Pt. Std. Socket	B618	3" Extension	B103
5/8" 6 Pt. Std. Socket	B620	6" Extension	B105
11/16" 6 Pt. Std. Socket	B622	Metal Box	93
3/4" 6 Pt. Std. Socket	B624		



B19K

3/8" Drive Socket Set

3/8" 6 Pt. Std. Socket	B612	7/16" 6 Pt. Deep Socket	BD614
7/16" 6 Pt. Std. Socket	B614	1/2" 6 Pt. Deep Socket	BD616
1/2" 6 Pt. Std. Socket	B616	9/16" 6 Pt. Deep Socket	BD618
9/16" 6 Pt. Std. Socket	B618	11/16" 6 Pt. Deep Socket	BD622
5/8" 6 Pt. Std. Socket	B620	3/4" 6 Pt. Deep Socket	BD624
11/16" 6 Pt. Std. Socket	B622	Reversible Ratchet	B52
3/4" 6 Pt. Std. Socket	B624	3" Extension	B103
13/16" 6 Pt. Std. Socket	B626	6" Extension	B105
7/8" 6 Pt. Std. Socket	B628	5/8" Spark Plug Socket	BD620P
3/8" 6 Pt. Deep Socket	BD612	Metal Box	98



B20K

3/8" Drive Socket Set

3/8" 6 Pt. Std. Socket	B612	1/2" 6 Pt. Deep Socket	BD616
7/16" 6 Pt. Std. Socket	B614	9/16" 6 Pt. Deep Socket	BD618
1/2" 6 Pt. Std. Socket	B616	5/8" 6 Pt. Deep Socket	BD620
9/16" 6 Pt. Std. Socket	B618	11/16" 6 Pt. Deep Socket	BD622
5/8" 12 Pt. Std. Socket	B1220	3/4" 6 Pt. Deep Socket	BD624
11/16" 12 Pt. Std. Socket	B1222	13/16" 6 Pt. Deep Socket	BD626
3/4" 12 Pt. Std. Socket	B1224	Ratchet	B52
13/16" 12 Pt. Std. Socket	B1226	6" Extension	B105
7/8" 12 Pt. Std. Socket	B1228	Flex Handle	B40A
3/8" 6 Pt. Deep Socket	BD612	Metal Box	94
7/16" 6 Pt. Deep Socket	BD614		



3/8" Drive Sockets & Sets – Chrome



B22K			
3/8" Drive Socket Set			
3/8" 12 Pt. Std. Socket	B1212	9/16" 12 Pt. Deep Socket	BD1218
7/16" 12 Pt. Std. Socket	B1214	5/8" 12 Pt. Deep Socket	BD1220
1/2" 12 Pt. Std. Socket	B1216	11/16" 12 Pt. Deep Socket	BD1222
9/16" 12 Pt. Std. Socket	B1218	3/4" 12 Pt. Deep Socket	BD1224
5/8" 12 Pt. Std. Socket	B1220	13/16" 12 Pt. Deep Socket	BD1226
11/16" 12 Pt. Std. Socket	B1222	7/8" 12 Pt. Deep Socket	BD1228
3/4" 12 Pt. Std. Socket	B1224	Reversible Ratchet	B52
13/16" 12 Pt. Std. Socket	B1226	3" Extension	B103
7/8" 12 Pt. Std. Socket	B1228	6" Extension	B105
3/8" 12 Pt. Deep Socket	BD1212	Universal Joint	B140A
7/16" 12 Pt. Deep Socket	BD1214	Metal Box	94
1/2" 12 Pt. Deep Socket	BD1216		



BD22K			
3/8" Drive Socket Set			
3/8" 6 Pt. Std. Socket	B612	9/16" 6 Pt. Deep Socket	BD618
7/16" 6 Pt. Std. Socket	B614	5/8" 6 Pt. Deep Socket	BD620
1/2" 6 Pt. Std. Socket	B616	11/16" 6 Pt. Deep Socket	BD622
9/16" 6 Pt. Std. Socket	B618	3/4" 6 Pt. Deep Socket	BD624
5/8" 6 Pt. Std. Socket	B620	13/16" 6 Pt. Deep Socket	BD626
11/16" 6 Pt. Std. Socket	B622	7/8" 6 Pt. Deep Socket	BD628
3/4" 6 Pt. Std. Socket	B624	Reversible Ratchet	B52
13/16" 6 Pt. Std. Socket	B626	3" Extension	B103
7/8" 6 Pt. Std. Socket	B628	6" Extension	B105
3/8" 6 Pt. Deep Socket	BD612	Universal Joint	B140A
7/16" 6 Pt. Deep Socket	BD614	Metal Box	94
1/2" 6 Pt. Deep Socket	BD616		

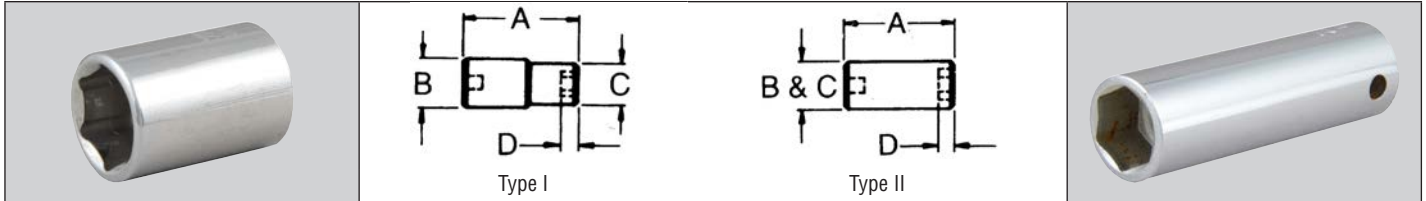


B26K			
3/8" Drive Socket Set			
1/4" 6 Pt. Std. Socket	B608	7/16" 6 Pt. Deep Socket	BD614
5/16" 6 Pt. Std. Socket	B610	1/2" 6 Pt. Deep Socket	BD616
3/8" 6 Pt. Std. Socket	B612	9/16" 6 Pt. Deep Socket	BD618
7/16" 6 Pt. Std. Socket	B614	5/8" 6 Pt. Deep Socket	BD620
1/2" 6 Pt. Std. Socket	B616	11/16" 6 Pt. Deep Socket	BD622
9/16" 6 Pt. Std. Socket	B618	3/4" 6 Pt. Deep Socket	BD624
5/8" 12 Pt. Std. Socket	B1220	13/16" 6 Pt. Deep Socket	BD626
11/16" 12 Pt. Std. Socket	B1222	Ratchet	B52
3/4" 12 Pt. Std. Socket	B1224	3" Extension	B103
13/16" 12 Pt. Std. Socket	B1226	6" Extension	B105
7/8" 12 Pt. Std. Socket	B1228	Flex Handle	B40A
15/16" 12 Pt. Std. Socket	B1230	Universal Joint	B140A
1" 12 Pt. Std. Socket	B1232	Metal Box	94
3/8" 6 Pt. Deep Socket	BD612		





3/8 " Drive Metric Socket Wrenches – Chrome



3/8" Square Drive 12 Point Standard — Metric

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Opening
		A	B	C	D		Chrome		
8 mm	I	25.7 mm	17.3 mm	12.2 mm	6.6 mm	.06	BM1208	6	8 mm
9 mm	I	25.4 mm	17.3 mm	14.2 mm	6.9 mm	.06	BM1209	6	9 mm
10 mm	I	25.4 mm	17.3 mm	14.9 mm	7.9 mm	.06	BM1210	6	10 mm
11 mm	I	25.4 mm	17.3 mm	16.5 mm	8.1 mm	.06	BM1211	6	11 mm
12 mm	II	25.4 mm	17.8 mm	17.8 mm	7.9 mm	.06	BM1212	6	12 mm
13 mm	II	25.7 mm	18.8 mm	18.8 mm	7.9 mm	.06	BM1213	6	13 mm
14 mm	II	25.7 mm	20.6 mm	20.6 mm	12.4 mm	.06	BM1214	6	14 mm
15 mm	II	25.7 mm	21.6 mm	21.6 mm	12.4 mm	.13	BM1215	6	15 mm
16 mm	II	28.7 mm	22.1 mm	22.1 mm	14.2 mm	.13	BM1216	6	16 mm
17 mm	II	30.0 mm	24.4 mm	24.4 mm	14.2 mm	.19	BM1217	6	17 mm
18 mm	II	30.0 mm	24.4 mm	24.4 mm	15.7 mm	.19	BM1218	6	18 mm
19 mm	II	30.0 mm	26.2 mm	26.2 mm	17.3 mm	.19	BM1219	6	19 mm

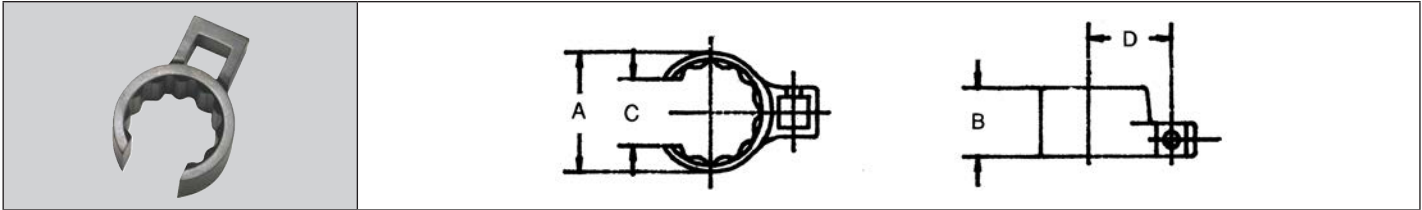
3/8" Square Drive 6 Point Standard — Metric

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Opening
		A	B	C	D		Chrome		
6 mm	I	28.5 mm	16.0 mm	10.0 mm	4.0 mm	.04	BM606	6	6 mm
7 mm	I	28.5 mm	16.0 mm	11.0 mm	4.0 mm	.04	BM607	6	7 mm
8 mm	I	28.5 mm	16.0 mm	12.0 mm	5.0 mm	.05	BM608	6	8 mm
9 mm	I	28.5 mm	16.0 mm	13.0 mm	5.5 mm	.05	BM609	6	9 mm
10 mm	I	28.5 mm	16.0 mm	14.5 mm	6.0 mm	.05	BM610	6	10 mm
11 mm	II	28.5 mm	—	16.0 mm	7.0 mm	.05	BM611	6	11 mm
12 mm	II	28.5 mm	—	17.5 mm	8.0 mm	.06	BM612	6	12 mm
13 mm	II	28.5 mm	—	18.5 mm	8.0 mm	.08	BM613	6	13 mm
14 mm	II	28.5 mm	—	19.5 mm	10.0 mm	.08	BM614	6	14 mm
15 mm	II	28.5 mm	—	21.5 mm	10.0 mm	.10	BM615	6	15 mm
16 mm	II	28.5 mm	—	22.0 mm	10.5 mm	.10	BM616	6	16 mm
17 mm	II	28.5 mm	—	23.5 mm	10.0 mm	.13	BM617	6	17 mm
18 mm	II	28.5 mm	—	24.5 mm	10.5 mm	.13	BM618	6	18 mm
19 mm	II	28.5 mm	—	25.5 mm	12.0 mm	.15	BM619	6	19 mm

3/8" Square Drive 6 Point Deep — Metric

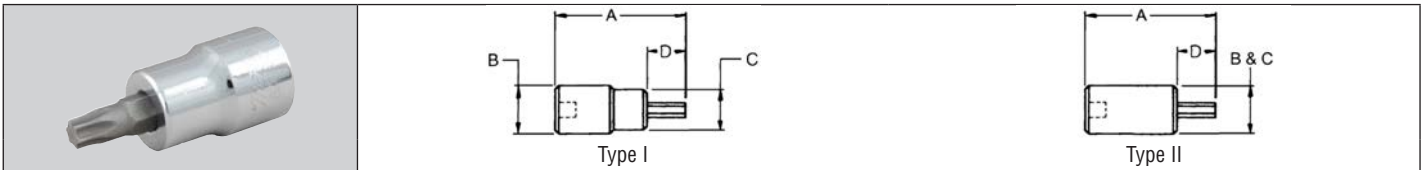
Opening	Type	Length	Drive End	Opening End	Minimum Depth	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Opening
		A	B	C	D		Chrome		
6 mm	I	56.5 mm	16.0 mm	10.0 mm	4.0 mm	.10	BMD606	6	6 mm
7 mm	I	56.5 mm	16.0 mm	10.0 mm	4.0 mm	.10	BMD607	6	7 mm
8 mm	I	56.5 mm	16.0 mm	11.5 mm	5.0 mm	.12	BMD608	6	8 mm
9 mm	I	56.5 mm	16.0 mm	12.5 mm	6.0 mm	.10	BMD609	6	9 mm
10 mm	I	56.5 mm	16.0 mm	14.5 mm	6.0 mm	.12	BMD610	6	10 mm
11 mm	II	56.5 mm	—	16.0 mm	7.0 mm	.12	BMD611	6	11 mm
12 mm	II	56.5 mm	—	17.0 mm	8.0 mm	.13	BMD612	6	12 mm
13 mm	II	56.5 mm	—	18.5 mm	8.0 mm	.17	BMD613	6	13 mm
14 mm	II	56.5 mm	—	19.5 mm	10.0 mm	.21	BMD614	6	14 mm
15 mm	II	56.5 mm	—	21.5 mm	10.0 mm	.23	BMD615	6	15 mm
16 mm	II	56.5 mm	—	22.0 mm	10.0 mm	.23	BMD616	6	16 mm
17 mm	II	63.5 mm	—	23.5 mm	10.0 mm	.31	BMD617	6	17 mm
18 mm	II	63.5 mm	—	24.5 mm	10.5 mm	.23	BMD618	6	18 mm
19 mm	II	63.5 mm	—	25.0 mm	11.0 mm	.25	BMD619	6	19 mm

3/8 " Drive Sockets & Sets – Chrome



3/8" Drive Metric Crowfoot Wrench — Flare Nut 12 Pt.

Opening	Diameter of Head	Thickness of Head	Width of Slot	Length of Centers	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Opening
	A	B	C	D		Chrome		
15 mm	24.9 mm	18.3 mm	16.5 mm	18.8 mm	0.10	BC15MM	6	15 mm
16 mm	24.9 mm	18.3 mm	16.5 mm	18.8 mm	0.10	BC16MM	6	16 mm
17 mm	27.2 mm	18.3 mm	16.5 mm	20.1 mm	0.11	BC17MM	6	17 mm
18 mm	29.7 mm	19.1 mm	16.5 mm	21.3 mm	0.12	BC18MM	6	18 mm
19 mm	29.7 mm	19.1 mm	16.5 mm	21.3 mm	0.12	BC19MM	6	19 mm
20 mm	31.8 mm	19.1 mm	16.5 mm	22.4 mm	0.13	BC20MM	6	20 mm
21 mm	31.8 mm	19.1 mm	16.5 mm	22.4 mm	0.13	BC21MM	6	21 mm
22 mm	34.0 mm	19.8 mm	16.5 mm	23.9 mm	0.14	BC22MM	6	22 mm
23 mm	36.1 mm	19.8 mm	16.5 mm	24.9 mm	0.15	BC23MM	6	23 mm
24 mm	36.1 mm	19.8 mm	16.5 mm	24.9 mm	0.15	BC24MM	6	24 mm
25 mm	38.1 mm	20.6 mm	16.5 mm	25.9 mm	0.16	BC25MM	6	25 mm
26 mm	38.1 mm	20.6 mm	16.5 mm	25.9 mm	0.16	BC26MM	6	26 mm
27 mm	39.9 mm	20.6 mm	16.5 mm	27.2 mm	0.17	BC27MM	6	27 mm



3/8" Drive Metric Hex Bit Sockets

Bit Size	Type	Length	Drive End	Bit End	Bit Length	Weight Each (lb)	Part Number	Replacement Hex Bit	Std. Pkg. Qty.	Bit Size
		A	B	C	D		Chrome			
4 mm	I	68 mm	17.5 mm	15.0 mm	41.0 mm	0.1	BA4MM	BA4MMB	6	4 mm
5 mm	I	68 mm	17.5 mm	15.0 mm	41.0 mm	0.1	BA5MM	BA5MMB	6	5 mm
6 mm	I	68 mm	17.5 mm	15.0 mm	41.0 mm	0.1	BA6MM	BA6MMB	6	6 mm
7 mm	I	72.5 mm	17.5 mm	15.0 mm	45.3 mm	0.1	BA7MM	BA7MMB	6	7 mm
8 mm	I	72.5 mm	17.5 mm	15.0 mm	45.3 mm	0.1	BA8MM	BA8MMB	6	8 mm
9 mm	II	72.5 mm	19 mm	19.0 mm	42.4 mm	0.15	BA9MM	BA9MMB	6	9 mm
10 mm	II	72.5 mm	19 mm	19.0 mm	42.4 mm	0.15	BA10MM	BA10MMB	6	10 mm



3/8 " Drive Metric Socket Sets – Chrome

MB11K

METRIC

3/8" Drive Metric Socket Set

10 mm 6 Pt. Std. Socket	BM610	18 mm 6 Pt. Std. Socket	BM618
12 mm 6 Pt. Std. Socket	BM612	19 mm 6 Pt. Std. Socket	BM619
13 mm 6 Pt. Std. Socket	BM613	Reversible Ratchet	B52
14 mm 6 Pt. Std. Socket	BM614	3" Extension	B103
15 mm 6 Pt. Std. Socket	BM615	Spark Plug Socket	BD620P
17 mm 6 Pt. Std. Socket	BM617	Metal Box	92



MB12K

METRIC

3/8" Drive Metric 12 Point Standard Socket Set

8 mm 12 Pt. Std. Socket	BM1208	15 mm 12 Pt. Std. Socket	BM1215
9 mm 12 Pt. Std. Socket	BM1209	16 mm 12 Pt. Std. Socket	BM1216
10 mm 12 Pt. Std. Socket	BM1210	17 mm 12 Pt. Std. Socket	BM1217
11 mm 12 Pt. Std. Socket	BM1211	18 mm 12 Pt. Std. Socket	BM1218
12 mm 12 Pt. Std. Socket	BM1212	19 mm 12 Pt. Std. Socket	BM1219
13 mm 12 Pt. Std. Socket	BM1213	Twist Lock Clip Rail	213B
14 mm 12 Pt. Std. Socket	BM1214		



MB14K

METRIC

3/8" Drive Metric 6 Point Standard Socket Set

6 mm 6 Pt. Std. Socket	BM606	14 mm 6 Pt. Std. Socket	BM614
7 mm 6 Pt. Std. Socket	BM607	15 mm 6 Pt. Std. Socket	BM615
8 mm 6 Pt. Std. Socket	BM608	16 mm 6 Pt. Std. Socket	BM616
9 mm 6 Pt. Std. Socket	BM609	17 mm 6 Pt. Std. Socket	BM617
10 mm 6 Pt. Std. Socket	BM610	18 mm 6 Pt. Std. Socket	BM618
11 mm 6 Pt. Std. Socket	BM611	19 mm 6 Pt. Std. Socket	BM619
12 mm 6 Pt. Std. Socket	BM612	Twist Lock Clip Rail	218B
13 mm 6 Pt. Std. Socket	BM613		



BA7KM

METRIC

3/8" Drive Metric Hex Bit Socket Set

4 mm Hex Bit Socket	BA4MM	8 mm Hex Bit Socket	BA8MM
5 mm Hex Bit Socket	BA5MM	9 mm Hex Bit Socket	BA9MM
6 mm Hex Bit Socket	BA6MM	10 mm Hex Bit Socket	BA10MM
7 mm Hex Bit Socket	BA7MM	Twist Lock Clip Rail	208B



BC13KM

METRIC

3/8" Drive Metric 12 Point Crowfoot Set

15 mm 12 Pt. Crowfoot	BC15MM	22 mm 12 Pt. Crowfoot	BC22MM
16 mm 12 Pt. Crowfoot	BC16MM	23 mm 12 Pt. Crowfoot	BC23MM
17 mm 12 Pt. Crowfoot	BC17MM	24 mm 12 Pt. Crowfoot	BC24MM
18 mm 12 Pt. Crowfoot	BC18MM	25 mm 12 Pt. Crowfoot	BC25MM
19 mm 12 Pt. Crowfoot	BC19MM	26 mm 12 Pt. Crowfoot	BC26MM
20 mm 12 Pt. Crowfoot	BC20MM	27 mm 12 Pt. Crowfoot	BC27MM
21 mm 12 Pt. Crowfoot	BC21MM	Twist Lock Clip Rail	208B



3/8" Drive Metric Sockets & Sets – Chrome



MB17K

METRIC

3/8" Drive Metric 6 Point Standard Socket Set

8 mm 12 Pt. Std. Socket	BM1208	17 mm 12 Pt. Std. Socket	BM1217
9 mm 12 Pt. Std. Socket	BM1209	18 mm 12 Pt. Std. Socket	BM1218
10 mm 12 Pt. Std. Socket	BM1210	19 mm 12 Pt. Std. Socket	BM1219
11 mm 12 Pt. Std. Socket	BM1211	7-13/16" Flexible Handle	B40A
12 mm 12 Pt. Std. Socket	BM1212	Reversible Ratchet	B52
13 mm 12 Pt. Std. Socket	BM1213	3" Extension	B103
14 mm 12 Pt. Std. Socket	BM1214	6" Extension	B105
15 mm 12 Pt. Std. Socket	BM1215	Universal Joint	B140A
16 mm 12 Pt. Std. Socket	BM1216	Metal Box	94



MB19K

METRIC

3/8" Drive Metric 6 Point Standard Socket Set

10 mm 6 Pt. Std. Socket	BM610	13 mm 6 Pt. Deep Socket	BMD613
12 mm 6 Pt. Std. Socket	BM612	14 mm 6 Pt. Deep Socket	BMD614
13 mm 6 Pt. Std. Socket	BM613	15 mm 6 Pt. Deep Socket	BMD615
14 mm 6 Pt. Std. Socket	BM614	17 mm 6 Pt. Deep Socket	BMD617
15 mm 6 Pt. Std. Socket	BM615	19 mm 6 Pt. Deep Socket	BMD619
17 mm 6 Pt. Std. Socket	BM617	Reversible Ratchet	B52
18 mm 6 Pt. Std. Socket	BM618	3" Extension	B103
19 mm 6 Pt. Std. Socket	BM619	6" Extension	B105
10 mm 6 Pt. Deep Socket	BMD610	Spark Plug Socket	BD620P
12 mm 6 Pt. Deep Socket	BMD612	Metal Box	94



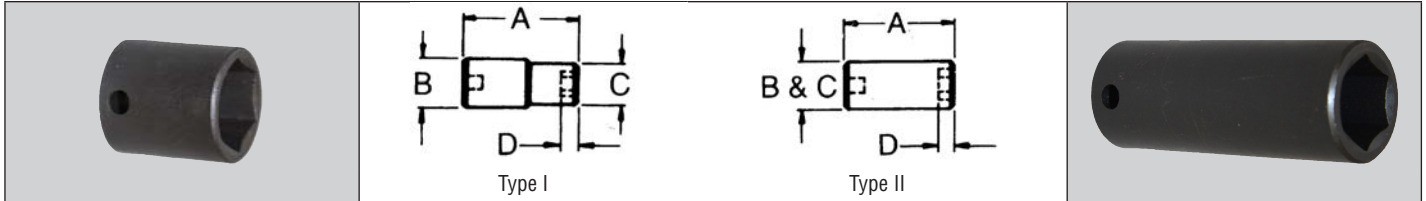
MB26K

METRIC

3/8" Drive Metric 6 Point Standard Socket Set

7 mm 6 Pt. Std. Socket	BM607	11 mm 6 Pt. Deep Socket	BMD611
8 mm 6 Pt. Std. Socket	BM608	12 mm 6 Pt. Deep Socket	BMD612
9 mm 6 Pt. Std. Socket	BM609	13 mm 6 Pt. Deep Socket	BMD613
10 mm 6 Pt. Std. Socket	BM610	14 mm 6 Pt. Deep Socket	BMD614
11 mm 6 Pt. Std. Socket	BM611	15 mm 6 Pt. Deep Socket	BMD615
12 mm 6 Pt. Std. Socket	BM612	16 mm 6 Pt. Deep Socket	BMD616
13 mm 6 Pt. Std. Socket	BM613	17 mm 6 Pt. Deep Socket	BMD617
14 mm 6 Pt. Std. Socket	BM614	18 mm 6 Pt. Deep Socket	BMD618
15 mm 6 Pt. Std. Socket	BM615	19 mm 6 Pt. Deep Socket	BMD619
16 mm 6 Pt. Std. Socket	BM616	Reversible Ratchet	B52
17 mm 6 Pt. Std. Socket	BM617	6" Extension	B105
18 mm 6 Pt. Std. Socket	BM618	Flexible Handle	B40A
19 mm 6 Pt. Std. Socket	BM619	Metal Box	94
10 mm 6 Pt. Deep Socket	BMD610		





3/8" Square Drive 6 Point Standard

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Opening
							Industrial Black		
5/16	I	1-1/16	47/64	1/2	7/64	.07	2610	6	5/16
3/8	I	1-1/16	47/64	19/32	5/32	.07	2612	6	3/8
7/16	I	1-1/16	47/64	43/64	7/32	.08	2614	6	7/16
1/2	II	1-3/32	—	3/4	13/64	.08	2616	6	1/2
9/16	II	1-1/8	—	55/64	1/4	.13	2618	6	9/16
5/8	II	1-1/8	—	59/64	9/32	.15	2620	6	5/8
11/16	II	1-1/8	—	63/64	5/16	.16	2622	6	11/16
3/4	II	1-3/16	—	1-1/32	23/64	.17	2624	6	3/4

3/8" Square Drive 6 Point Deep

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Opening
							Industrial Black		
5/16	I	2-1/4	47/64	1/2	3/32	.19	12610	6	5/16
3/8	I	2-1/4	47/64	19/32	7/64	.19	12612	6	3/8
7/16	I	2-1/4	47/64	43/64	13/64	.19	12614	6	7/16
1/2	II	2-1/4	—	3/4	13/64	.18	12616	6	1/2
9/16	I	2-1/4	55/64	13/16	11/32	.25	12618	6	9/16
5/8	I	2-1/4	55/64	57/64	3/8	.28	12620	6	5/8
11/16	II	2-5/16	—	61/64	3/8	.31	12622	6	11/16
3/4	II	2-5/16	—	1-3/64	7/16	.38	12624	6	3/4

3/8" Square Drive 6 Point Standard – Metric

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Opening
							Industrial Black		
10 mm	I	28.0 mm	18.0 mm	15.1 mm	5.0 mm	.05	2M610	6	10 mm
12 mm	II	28.0 mm	—	18.5 mm	7.5 mm	.07	2M612	6	12 mm
13 mm	II	30.0 mm	—	19.6 mm	9.5 mm	.07	2M613	6	13 mm
14 mm	II	30.0 mm	—	21.3 mm	9.5 mm	.08	2M614	6	14 mm
15 mm	II	30.0 mm	—	22.3 mm	9.5 mm	.10	2M615	6	15 mm
17 mm	II	30.0 mm	—	24.5 mm	9.5 mm	.11	2M617	6	17 mm
18 mm	II	30.0 mm	—	25.3 mm	9.5 mm	.12	2M618	6	18 mm
19 mm	II	30.0 mm	—	27.2 mm	10.0 mm	.13	2M619	6	19 mm

Item	Description	Weigh Each (lb)	Part Number	Std. Pkg. Qty.
	Universal Adaptor	.18	2140A	6
	3/8" Impact Universal Joint	.10	24A	6

IB6K				IMB8K				
5/16" 6 Pt. Skt. 2610	9/16" 6 Pt. Skt. 2618	10 mm 6 Pt. Skt. 2M610	17 mm 6 Pt. Skt. 2M617	3/8" 6 Pt. Skt. 2612	5/8" 6 Pt. Skt. 2620	12 mm 6 Pt. Skt. 2M612	18 mm 6 Pt. Skt. 2M618	
7/16" 6 Pt. Skt. 2614	Clip Rail 242	13 mm 6 Pt. Skt. 2M613	19 mm 6 Pt. Skt. 2M619	1/2" 6 Pt. Skt. 2616		14 mm 6 Pt. Skt. 2M614	Clip Rail 244	
1/2" 6 Pt. Skt. 2616		15 mm 6 Pt. Skt. 2M615						
IB8K				IB8KD				
5/16" 6 Pt. Skt. 2610	5/8" 6 Pt. Skt. 2620	5/16" 6 Pt. Deep Skt. 12610	5/8" 6 Pt. Deep Skt. 12620	3/8" 6 Pt. Skt. 2612	11/16" 6 Pt. Skt. 2622	3/8" 6 Pt. Deep Skt. 12612	11/16" 6 Pt. Deep Skt. 12622	
7/16" 6 Pt. Skt. 2614	3/4" 6 Pt. Skt. 2624	7/16" 6 Pt. Deep Skt. 12614	3/4" 6 Pt. Deep Skt. 12624	1/2" 6 Pt. Skt. 2616	Clip Rail 244	1/2" 6 Pt. Deep Skt. 12616	Clip Rail 244	
1/2" 6 Pt. Skt. 2616	Clip Rail 244	9/16" 6 Pt. Skt. 2618		9/16" 6 Pt. Deep Skt. 12618				

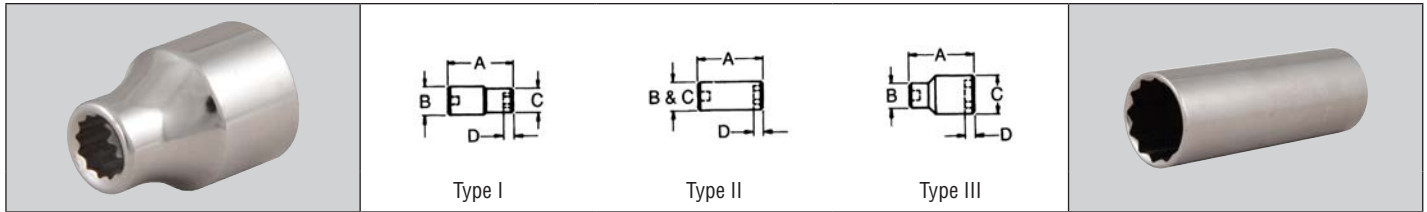
1/2" Drive Attachments Chrome



Type	Item	Description	Part Number	Std. Pkg. Qty.
Flexible Handle		Chrome Knurled Grip Length 17" Weight 1.65 lb	SF41	5
Reversible Ratchet		Chrome 45 tooth Head diameter 1-5/8" Length 10" Weight 1.44 lb	SF51	1
Reversible Ratchet Repair Kit		Preassembled Ratchet Replacement Head Weight .31 lb For SF51 and SF55	SF51RD	1
Double Pawl Ratchet		Double Pawl 45 tooth Head diameter 1 11/16" Length 15" Weight 1.25 lb	SF55	1
Extensions		Chrome Length 20" Weight 1.19 lb	S121P	5
		Chrome Length 2" Weight .21 lb	S102P	5
		Chrome Length 5" Weight .37 lb	S110P	5
		Chrome Length 10" Weight .66 lb	S115P	5
Universal Joint		Chrome Length 2-5/16" Weight .15 lb	S140	5
Adaptors		Chrome 1/2"F to 3/8"M Weight .15 lb	SH129	5
		Chrome 1/2"F to 1/4"M Weight .18 lb	SH130	5
18" Speeder		Chrome Revolving Grip Length 18" Weight 1.2 lb	S15	5



1/2" Drive Socket Wrenches



Martin Heavy-Duty Chrome Hand Tool Sockets are Manufactured to Extremely Close Tolerances of American Alloy Steel. The 12 Point Broach Opening Provides a Secure Fit for Absolute Tightening and Loosening.

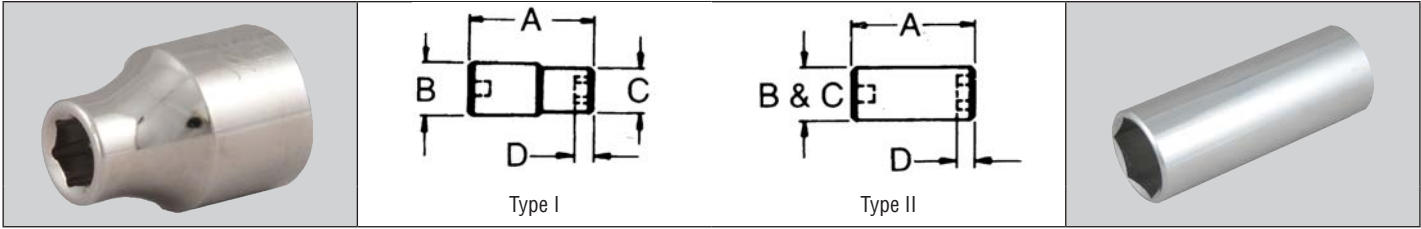
1/2" Square Drive 12 Point Standard

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Opening
		A	B	C	D		Chrome		
3/8	I	1-15/32	13/16	37/64	5/32	.09	ST1212	5	3/8
7/16	I	1-15/32	13/16	41/64	7/32	.09	ST1214	5	7/16
1/2	I	1-15/32	13/16	23/32	17/64	.10	ST1216	5	1/2
9/16	II	1-15/32	—	13/16	21/64	.10	ST1218	5	9/16
5/8	II	1-15/32	—	7/8	1-15/32	.14	ST1220	5	5/8
11/16	II	1-15/32	—	31/32	1-15/32	.15	ST1222	5	11/16
3/4	II	1-15/32	—	1-1/16	1-15/32	.19	ST1224	5	3/4
13/16	II	1-9/16	—	1-1/8	1-9/16	.20	ST1226	5	13/16
7/8	II	1-5/8	—	1-11/64	1/2	.24	ST1228	5	7/8
15/16	II	1-5/8	—	1-1/4	35/64	.28	ST1230	5	15/16
1	II	1-11/16	—	1-5/16	35/64	.32	ST1232	5	1
1-1/16	III	1-3/4	1-3/32	1-13/32	5/8	.32	ST1234	5	1-1/16
1-1/8	III	1-13/16	1-7/64	1-1/2	21/32	.35	ST1236	5	1-1/8
1-3/16	III	1-7/8	1-7/64	1-37/64	21/32	.40	ST1238	5	1-3/16
1-1/4	III	1-59/64	1-1/8	1-13/16	3/4	.43	ST1240	5	1-1/4
1-5/16	III	2	1-3/16	1-13/16	13/16	.45	ST1242	5	1-5/16
1-3/8	III	2	1-1/4	1-7/8	55/64	.46	ST1244	5	1-3/8
1-7/16	III	2 -1/16	1-3/8	1-15/16	29/32	.47	ST1246	5	1-7/16
1-1/2	III	2 - 1/8	1-3/8	2	1-1/16	.49	ST1248	5	1-1/2

1/2" Square Drive 12 Point Deep

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Opening
		A	B	C	D		Chrome		
3/8	II	3-3/64	—	13/16	23/32	.21	SD1212	5	3/8
7/16	II	3-3/64	—	13/16	23/32	.24	SD1214	5	7/16
1/2	II	3-1/16	13/16	23/32	17/64	.24	SD1216	5	1/2
9/16	II	3-1/16	—	13/16	21/64	.24	SD1218	5	9/16
5/8	II	3-1/16	—	7/8	3/8	.30	SD1220	5	5/8
11/16	II	3-1/16	—	31/32	3/8	.34	SD1222	5	11/16
3/4	II	3-1/16	—	1-3/64	7/16	.35	SD1224	5	3/4
13/16	II	3-1/16	—	1-7/64	29/64	.40	SD1226	5	13/16
7/8	II	3-1/16	—	1-11/64	1/2	.43	SD1228	5	7/8
15/16	II	3-1/16	—	1-1/4	35/64	.48	SD1230	5	15/16
1	III	3-1/16	1-3/32	1-5/16	35/64	.45	SD1232	5	1
1-1/16	III	3-1/16	1-7/64	1-13/32	5/8	.50	SD1234	5	1-1/16
1-1/8	III	3-1/16	1-7/64	1-1/2	21/32	.51	SD1236	5	1-1/8
1-3/16	III	3-3/64	1-7/64	1-37/64	21/32	.56	SD1238	5	1-3/16
1-1/4	III	3-3/64	1-1/8	1-41/64	3/4	.61	SD1240	5	1-1/4
1-5/16	III	3-3/64	1-9/64	1-13/16	49/64	.61	SD1242	5	1-5/16
1-3/8	III	3-3/64	1-15/64	1-7/8	25/32	.84	SD1244	5	1-3/8
1-7/16	III	3-3/64	1-19/64	1-61/64	7/8	.88	SD1246	5	1-7/16
1-1/2	III	3-3/64	1-11/32	2-1/64	55/64	.93	SD1248	5	1-1/2

1/2" Drive Socket Wrenches – Chrome



1/2" Square Drive 6 Point Standard

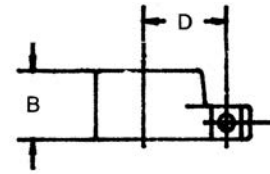
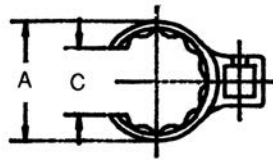
Opening	Type	Length	Drive End	Opening End	Minimum Depth	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Opening
		A	B	C	D		Chrome		
3/8	I	1-1/2	7/8	53/64	5/16	.11	ST612	5	3/8
7/16	I	1-1/2	55/64	55/64	21/64	.11	ST614	5	7/16
1/2	I	1-1/2	55/64	59/64	13/32	.11	ST616	5	1/2
9/16	I	1-1/2	55/64	13/16	13/32	.13	ST618	5	9/16
5/8	II	1-1/2	—	7/8	9/16	.12	ST620	5	5/8
11/16	II	1-1/2	—	31/32	9/16	.16	ST622	5	11/16
3/4	II	1-1/2	—	1-3/64	21/32	.19	ST624	5	3/4
13/16	II	1-1/2	—	1-3/32	11/16	.20	ST626	5	13/16
7/8	II	1-1/2	—	1-3/16	3/4	.29	ST628	5	7/8
15/16	II	1-1/2	—	1-17/64	51/64	.31	ST630	5	15/16
1	II	1-39/64	—	1-21/64	53/64	.37	ST632	5	1
1-1/16	II	1-39/64	—	1-13/32	15/16	.52	ST634	5	1-1/16
1-1/8	II	1-5/8	—	1-15/32	63/64	.52	ST636	5	1-1/8
1-3/16	II	1-5/8	—	1-17/32	63/64	.59	ST638	5	1-3/16
1-1/4	II	1-3/4	—	1-37/64	1-1/8	.66	ST640	5	1-1/4

1/2" Square Drive 6 Point Deep

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Opening
		A	B	C	D		Chrome		
1/2	I	3-1/8	7/8	49/64	51/64	.34	SD616	5	1/2
9/16	I	3-1/8	7/8	53/64	15/16	.31	SD618	5	9/16
5/8	II	3-1/8	—	7/8	1-3/16	.38	SD620	5	5/8
11/16	II	3-1/8	—	31/32	1-7/32	.41	SD622	5	11/16
3/4	II	3-1/8	—	1-1/16	1-17/64	.44	SD624	5	3/4
13/16	II	3-1/8	—	1-1/8	1-19/64	.47	SD626	5	13/16
7/8	II	3-1/8	—	1-3/16	1-19/64	.53	SD628	5	7/8
15/16	II	3-1/8	—	1-17/64	1-3/8	.56	SD630	5	15/16
1	II	3-1/8	—	1-11/32	1-3/8	.72	SD632	5	1
1-1/16	II	3-1/8	—	1-13/32	1-27/64	.78	SD634	5	1-1/16
1-1/8	II	3-1/8	—	1-1/2	1-27/64	.84	SD636	5	1-1/8

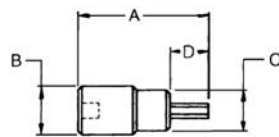


1/2" Drive Crowfoot Wrench and Hex Bit Sockets

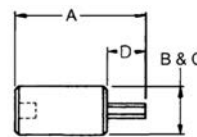


1/2" Drive Crowfoot Wrench — Flare Nut 12 Pt.

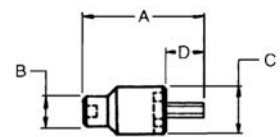
Opening	Diameter of Head		Thickness of Head	Width of Slot		Length of Centers	Weight Each (lb)	Part Number		Std. Pkg. Qty.	Opening
	A	B		C	D			Chrome	Industrial Black		
1-1/8	1-43/64	29/32	29/32	53/32	1-5/32	.19	SC36	BLKSC36	5	1-1/8	
1-3/16	1-47/64	29/32	29/32	55/32	1-3/16	.19	SC38	BLKSC38	5	1-3/16	
1-1/4	1-53/64	29/32	29/32	59/32	1-15/64	.19	SC40	BLKSC40	5	1-1/4	
1-5/16	1-57/64	29/32	29/32	61/64	1-17/64	.19	SC42	BLKSC42	5	1-5/16	
1-3/8	1-31/32	31/32	31/32	1-3/64	1-5/16	.25	SC44	BLKSC44	5	1-3/8	
1-7/16	2-3/64	31/32	31/32	1-3/64	1-11/32	.25	SC46	BLKSC46	5	1-7/16	
1-1/2	2-7/64	31/32	31/32	1-3/64	1-3/8	.25	SC48	BLKSC48	5	1-1/2	
1-9/16	2-11/64	31/32	31/32	1-7/64	1-27/64	.31	SC50	BLKSC50	5	1-9/16	
1-5/8	2-17/64	31/32	31/32	1-11/64	1-29/64	.31	SC52	BLKSC52	5	1-5/8	
1-11/16	2-23/64	1-1/32	1-1/32	1-19/64	1-33/64	.31	SC54	BLKSC54	5	1-11/16	
1-3/4	2-27/64	1-1/32	1-1/32	1-19/64	1-35/64	.38	SC56	BLKSC56	5	1-3/4	
1-13/16	2-33/64	1-1/32	1-1/32	1-19/64	1-19/32	.38	SC58	BLKSC58	5	1-13/16	
1-7/8	2-39/64	1-3/32	1-3/32	1-21/64	1-41/64	.44	SC60	BLKSC60	5	1-7/8	
1-15/16	2-43/64	1-3/32	1-3/32	1-23/64	1-43/64	.50	SC62	BLKSC62	5	1-15/16	
2	2-49/64	1-3/32	1-3/32	1-35/64	1-23/32	.50	SC64	BLKSC64	5	2	



Type I



Type II



Type III

1/2" Drive Hex Bit Sockets

Bit Size	Type	Length		Drive End	Bit End	Bit Length	Weight Each (lb)	Part Number	Replacement Hex Bit	Std. Pkg. Qty.	Bit Size
		A	B									C	D
1/4	I	3-5/16	15/16	21/32	1-13/16	.18	SA8	SA8B	5	1/4	
5/16	I	3-5/16	15/16	21/32	1-13/16	.18	SA10	SA10B	5	5/16	
3/8	I	3-5/16	15/16	45/64	1-13/16	.25	SA12	SA12B	5	3/8	
7/16	I	3-5/16	15/16	3/4	1-13/16	.25	SA14	SA14B	5	7/16	
1/2	I	3-5/8	15/16	15/16	2-1/8	.35	SA16	SA16B	5	1/2	
9/16	I	3-5/8	1-1/64	1-1/64	2-1/8	.45	SA18	SA18B	5	9/16	
5/8	II	4	1-1/64	1-1/64	2-1/2	.50	SA20	SA20B	5	5/8	
3/4	III	4	1-1/64	2-31/64	2-1/2	.65	SA24	SA24B	5	3/4	

1/2" Drive Socket & Sets

– Chrome

S7K

1/2" DRIVE HEX BIT SOCKET SET

1/4" Hex Bit Socket 1/2" Dr.	SA8	1/2" Hex Bit Socket 1/2" Dr.	SA16
5/16" Hex Bit Socket 1/2" Dr.	SA10	9/16" Hex Bit Socket 1/2" Dr.	SA18
3/8" Hex Bit Socket 1/2" Dr.	SA12	5/8" Hex Bit Socket 1/2" Dr.	SA20
7/16" Hex Bit Socket 1/2" Dr.	SA14	Twist Lock Clip Rail	208R



S9K

1/2" DRIVE 6 POINT DEEP SOCKET SET

1/2" 6 pt. Deep Socket	SD616	13/16" 6 pt. Deep Socket	SD626
9/16" 6 pt. Deep Socket	SD618	7/8" 6 pt. Deep Socket	SD628
5/8" 6 pt. Deep Socket	SD620	15/16" 6 pt. Deep Socket	SD630
11/16" 6 pt. Deep Socket	SD622	1" 6 pt. Deep Socket	SD632
3/4" 6 pt. Deep Socket	SD624	Twist Lock Clip Rail	213R



S11K

1/2" DRIVE 12 POINT DEEP SOCKET SET

1/2" 12 pt. Deep Socket	SD1216	7/8" 12 pt. Deep Socket	SD1228
9/16" 12 pt. Deep Socket	SD1218	15/16" 12 pt. Deep Socket	SD1230
5/8" 12 pt. Deep Socket	SD1220	1" 12 pt. Deep Socket	SD1232
11/16" 12 pt. Deep Socket	SD1222	1 1/16" 12 pt. Deep Socket	SD1234
3/4" 12 pt. Deep Socket	SD1224	1 1/8" 12 pt. Deep Socket	SD1236
13/16" 12 pt. Deep Socket	SD1226	Twist Lock Clip Rail	213R



S12K

1/2" DRIVE 12 POINT STANDARD SOCKET SET

7/16" 12 pt. Socket	ST1214	7/8" 12 pt. Socket	ST1228
1/2" 12 pt. Socket	ST1216	15/16" 12 pt. Socket	ST1230
9/16" 12 pt. Socket	ST1218	1" 12 pt. Socket	ST1232
5/8" 12 pt. Socket	ST1220	10" Reversible Ratchet	SF51
11/16" 12 pt. Socket	ST1222	5" Extension	S110P
3/4" 12 pt. Socket	ST1224	Metal box	95
13/16" 12 pt. Socket	ST1226		



BC10K

3/8" AND 1/2" DRIVE HEX BIT SOCKETS SET

1/8" Hex Bit Socket 3/8" Dr.	BA4	3/8" Hex Bit Socket 3/8" Dr.	BA12
5/32" Hex Bit Socket 3/8" Dr.	BA55	1/2" Hex Bit Socket 1/2" Dr.	SA16
3/16" Hex Bit Socket 3/8" Dr.	BA6	9/16" Hex Bit Socket 1/2" Dr.	SA18
7/32" Hex Bit Socket 3/8" Dr.	BA7	5/8" Hex Bit Socket 1/2" Dr.	SA20
1/4" Hex Bit Socket 3/8" Dr.	BA8	Twist Lock Clip Rail	213R
5/16" Hex Bit Socket 3/8" Dr.	BA10		





1/2" Drive Socket Sets – Chrome

S13K

1/2" DRIVE 12 POINT STANDARD SOCKET SET

7/16" 12 pt. Socket	ST1214	7/8" 12 pt. Socket	ST1228
1/2" 12 pt. Socket	ST1216	15/16" 12 pt. Socket	ST1230
9/16" 12 pt. Socket	ST1218	1" 12 pt. Socket	ST1232
5/8" 12 pt. Socket	ST1220	1-1/16" 12 pt. Socket	ST1234
11/16" 12 pt. Socket	ST1222	1-1/8" 12 pt. Socket	ST1236
3/4" 12 pt. Socket	ST1224	1-1/4" 12 pt. Socket	ST1240
13/16" 12 pt. Socket	ST1226	Twist Lock Clip Rail	213R



S15K

1/2" DRIVE 6 POINT STANDARD SOCKET SET

3/8" 6 pt. Std. Socket	ST612	7/8" 6 pt. Std. Socket	ST628
7/16" 6 pt. Std. Socket	ST614	15/16" 6 pt. Std. Socket	ST630
1/2" 6 pt. Std. Socket	ST616	1" 6 pt. Std. Socket	ST632
9/16" 6 pt. Std. Socket	ST618	1-1/16" 6 pt. Std. Socket	ST634
5/8" 6 pt. Std. Socket	ST620	1-1/8" 6 pt. Std. Socket	ST636
11/16" 6 pt. Std. Socket	ST622	1-3/16" 6 pt. Std. Socket	ST638
3/4" 6 pt. Std. Socket	ST624	1-1/4" 6 pt. Std. Socket	ST640
13/16" 6 pt. Std. Socket	ST626	Twist Lock Clip Rail	213R



SC15K

1/2" DRIVE 12 POINT CROWFOOT SOCKET SET

1-1/8" 12 pt. Crowfoot	SC36	1-5/8" 12 pt. Crowfoot	SC52
1-3/16" 12 pt. Crowfoot	SC38	1-11/16" 12 pt. Crowfoot	SC54
1-1/4" 12 pt. Crowfoot	SC40	1-3/4" 12 pt. Crowfoot	SC56
1-5/16" 12 pt. Crowfoot	SC42	1-13/16" 12 pt. Crowfoot	SC58
1-3/8" 12 pt. Crowfoot	SC44	1-7/8" 12 pt. Crowfoot	SC60
1-7/16" 12 pt. Crowfoot	SC46	1-15/16" 12 pt. Crowfoot	SC62
1-1/2" 12 pt. Crowfoot	SC48	2" 12 pt. Crowfoot	SC64
1-9/16" 12 pt. Crowfoot	SC50	Twist Lock Clip Rail	218R



S16K

1/2" DRIVE 12 POINT STANDARD SOCKET SET

7/16" 12 pt. Socket	ST1214	1" 12 pt. Socket	ST1232
1/2" 12 pt. Socket	ST1216	1-1/16" 12 pt. Socket	ST1234
9/16" 12 pt. Socket	ST1218	1-1/8" 12 pt. Socket	ST1236
5/8" 12 pt. Socket	ST1220	1-1/4" 12 pt. Socket	ST1240
11/16" 12 pt. Socket	ST1222	10" Reversible Ratchet	SF51
3/4" 12 pt. Socket	ST1224	5" Extension	S110P
13/16" 12 pt. Socket	ST1226	Universal Joint	S140
7/8" 12 pt. Socket	ST1228	Metal box	95
15/16" 12 pt. Socket	ST1230		



1/2" Drive Socket Sets – Chrome

S17K

1/2" DRIVE 12 POINT STANDARD SOCKET SET

7/16" 12 pt. Std. Socket	ST1214	1" 12 pt. Std. Socket	ST1232
1/2" 12 pt. Std. Socket	ST1216	1-1/16" 12 pt. Std. Socket	ST1234
9/16" 12 pt. Std. Socket	ST1218	1-1/8" 12 pt. Std. Socket	ST1236
5/8" 12 pt. Std. Socket	ST1220	1-1/4" 12 pt. Std. Socket	ST1240
11/16" 12 pt. Std. Socket	ST1222	17" Flex Handle	SF41
3/4" 12 pt. Std. Socket	ST1224	10" Ratchet	SF51
13/16" 12 pt. Std. Socket	ST1226	5" Extension	S110P
7/8" 12 pt. Std. Socket	ST1228	Universal Joint	S140
15/16" 12 pt. Std. Socket	ST1230	Metal Box	99



S18K

1/2" DRIVE 12 POINT STANDARD SOCKET SET

7/16" 12 pt. Socket	ST1214	2" Extension	S102P
1/2" 12 pt. Socket	ST1216	5" Extension	S110P
9/16" 12 pt. Socket	ST1218	10" Extension	S115P
5/8" 12 pt. Socket	ST1220	Universal Joint	S140
11/16" 12 pt. Socket	ST1222	17" Flexible Handle	SF41
3/4" 12 pt. Socket	ST1224	10" Reversible Ratchet	SF51
13/16" 12 pt. Socket	ST1226	1/2"F to 3/8"M Adaptor	SH129
7/8" 12 pt. Socket	ST1228	1/2"F to 3/4"M Adaptor	SH130
15/16" 12 pt. Socket	ST1230	Metal Box	95
1" 12 pt. Socket	ST1232		



S19K

1/2" DRIVE 6 POINT STANDARD SOCKET SET

3/8" 6 pt. Std. Socket	ST612	1" 6 pt. Std. Socket	ST632
7/16" 6 pt. Std. Socket	ST614	1-1/16" 6 pt. Std. Socket	ST634
1/2" 6 pt. Std. Socket	ST616	1-1/8" 6 pt. Std. Socket	ST636
9/16" 6 pt. Std. Socket	ST618	1-1/4" 6 pt. Std. Socket	ST640
5/8" 6 pt. Std. Socket	ST620	17" Flex Handle	SF41
11/16" 6 pt. Std. Socket	ST622	10" Ratchet	SF51
3/4" 6 pt. Std. Socket	ST624	5" Extension	S110P
13/16" 6 pt. Std. Socket	ST626	10" Extension	S115P
7/8" 6 pt. Std. Socket	ST628	Metal Box	95
15/16" 6 pt. Std. Socket	ST630		



S22K

1/2" DRIVE 12 POINT STANDARD SOCKET SET

3/8" 12 pt. Std. Socket	ST1212	1-1/8" 12 pt. Std. Socket	ST1236
7/16" 12 pt. Std. Socket	ST1214	1-3/16" 12 pt. Std. Socket	ST1238
1/2" 12 pt. Std. Socket	ST1216	1-1/4" 12 pt. Std. Socket	ST1240
9/16" 12 pt. Std. Socket	ST1218	17" Flex Handle	SF41
5/8" 12 pt. Std. Socket	ST1220	10" Ratchet	SF51
11/16" 12 pt. Std. Socket	ST1222	2" Extension	S102P
3/4" 12 pt. Std. Socket	ST1224	5" Extension	S110P
13/16" 12 pt. Std. Socket	ST1226	10" Extension	S115P
7/8" 12 pt. Std. Socket	ST1228	Universal Joint	S140
15/16" 12 pt. Std. Socket	ST1230	Drive Speeder	S15
1" 12 pt. Std. Socket	ST1232	Clip Rail	258
1-1/16" 12 pt. Socket	ST1234	Metal Box	99



S24K

1/2" DRIVE 12 POINT STANDARD SOCKET SET

7/16" 12 pt. Socket	ST1214	1/2" 12 pt. Deep Socket	SD1216
1/2" 12 pt. Socket	ST1216	9/16" 12 pt. Deep Socket	SD1218
9/16" 12 pt. Socket	ST1218	5/8" 12 pt. Deep Socket	SD1220
5/8" 12 pt. Socket	ST1220	11/16" 12 pt. Deep Socket	SD1222
11/16" 12 pt. Socket	ST1222	3/4" 12 pt. Deep Socket	SD1224
3/4" 12 pt. Socket	ST1224	13/16" 12 pt. Deep Socket	SD1226
13/16" 12 pt. Socket	ST1226	7/8" 12 pt. Deep Socket	SD1228
7/8" 12 pt. Socket	ST1228	15/16" 12 pt. Deep Socket	SD1230
15/16" 12 pt. Socket	ST1230	17" Flexible Handle	SF41
1" 12 pt. Socket	ST1232	10" Reversible Ratchet	SF51
1-1/16" 12 pt. Socket	ST1234	10" Extension	S115P
1-1/8" 12 pt. Socket	ST1236	Tool Box	BX21
1-1/4" 12 pt. Socket	ST1240		



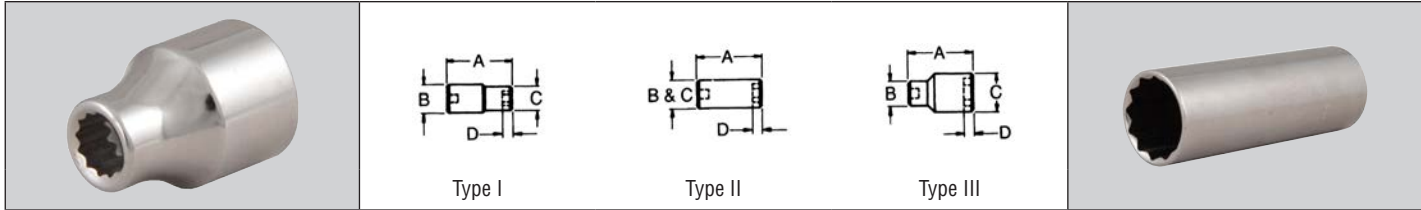
S36K (32 Pieces)

1/2" DRIVE 6 POINT STANDARD SOCKET SET

3/8" 12 pt. Std. Socket	ST1212	11/16" 12 pt. Deep Socket	SD1222
7/16" 12 pt. Std. Socket	ST1214	3/4" 12 pt. Deep Socket	SD1224
1/2" 12 pt. Std. Socket	ST1216	13/16" 12 pt. Deep Socket	SD1226
9/16" 12 pt. Std. Socket	ST1218	7/8" 12 pt. Deep Socket	SD1228
5/8" 12 pt. Std. Socket	ST1220	15/16" 12 pt. Deep Socket	SD1230
11/16" 12 pt. Std. Socket	ST1222	1" 12 pt. Deep Socket	SD1232
3/4" 12 pt. Std. Socket	ST1224	1-1/16" 12 pt. Deep Socket	SD1234
13/16" 12 pt. Std. Socket	ST1226	1-1/8" 12 pt. Deep Socket	SD1236
7/8" 12 pt. Std. Socket	ST1228	17-1/2" Speed Handle	S15
15/16" 12 pt. Std. Socket	ST1230	5" Extension	S110P
1" 12 pt. Std. Socket	ST1232	10" Extension	S115P
1-1/16" 12 pt. Std. Socket	ST1234	Universal Joint	S140
1-1/8" 12 pt. Std. Socket	ST1236	17" Flex Handle	SF41
1-1/4" 12 pt. Std. Socket	ST1240	10" Reversible Ratchet	SF51
1/2" 12 pt. Deep Socket	SD1216	1/2" F x 3/4" M Adaptor	SH130
9/16" 12 pt. Deep Socket	SD1218	Tool Box	BX21
5/8" 12 pt. Deep Socket	SD1220		



1/2" Drive Metric Socket Wrenches – Chrome



1/2" Square Drive 12 Point Standard – Metric

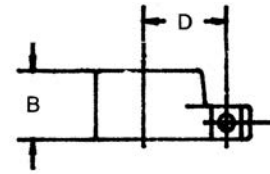
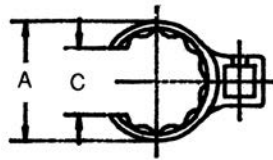
Opening	Type	Length	Drive End	Opening End	Minimum Depth	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Opening
		A	B	C	D		Chrome		
9 mm	I	37.5 mm	20.5 mm	13.0 mm	5.5 mm	.09	STM1209	5	9 mm
10 mm	I	37.5 mm	20.5 mm	14.5 mm	6.0 mm	.09	STM1210	5	10 mm
11 mm	I	37.5 mm	20.5 mm	16.5 mm	7.0 mm	.09	STM1211	5	11 mm
12 mm	I	37.5 mm	20.5 mm	17.5 mm	8.0 mm	.10	STM1212	5	12 mm
13 mm	I	37.5 mm	20.5 mm	18.5 mm	8.0 mm	.10	STM1213	5	13 mm
14 mm	II	37.5 mm	—	20.5 mm	8.5 mm	.12	STM1214	5	14 mm
15 mm	II	37.5 mm	—	22.0 mm	8.5 mm	.13	STM1215	5	15 mm
16 mm	II	37.5 mm	—	22.0 mm	9.5 mm	.13	STM1216	5	16 mm
17 mm	II	37.5 mm	—	24.0 mm	9.5 mm	.17	STM1217	5	17 mm
18 mm	II	37.5 mm	—	25.5 mm	10.5 mm	.14	STM1218	5	18 mm
19 mm	II	37.5 mm	—	27.0 mm	11.0 mm	.19	STM1219	5	19 mm
20 mm	II	38.0 mm	—	28.0 mm	11.5 mm	.17	STM1220	5	20 mm
21 mm	II	39.5 mm	—	29.0 mm	12.0 mm	.24	STM1221	5	21 mm
22 mm	II	41.5 mm	—	30.0 mm	12.5 mm	.24	STM1222	5	22 mm
23 mm	II	41.5 mm	—	31.0 mm	13.0 mm	.25	STM1223	5	23 mm
24 mm	II	41.5 mm	—	32.0 mm	14.0 mm	.29	STM1224	5	24 mm
25 mm	II	43.0 mm	—	33.5 mm	14.5 mm	.29	STM1225	5	25 mm
26 mm	III	44.5 mm	28.0 mm	35.0 mm	15.0 mm	.30	STM1226	5	26 mm
27 mm	III	44.5 mm	28.0 mm	35.5 mm	16.0 mm	.30	STM1227	5	27 mm
30 mm	III	47.5 mm	28.5 mm	40.0 mm	16.5 mm	.40	STM1230	5	30 mm
32 mm	III	49.0 mm	28.5 mm	42.0 mm	19.0 mm	.44	STM1232	5	32 mm
36 mm	III	51.0 mm	34.5 mm	49.5 mm	23.0 mm	.46	STM1236	5	36 mm

1/2" Square Drive 12 Point Deep – Metric

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Opening
		A	B	C	D		Chrome		
10 mm	I	79.5 mm	22.1 mm	15.2 mm	16.0 mm	.22	SMD1210	5	10 mm
11 mm	I	79.5 mm	22.1 mm	18.3 mm	17.0 mm	.22	SMD1211	5	11 mm
12 mm	I	79.5 mm	22.1 mm	18.8 mm	18.0 mm	.22	SMD1212	5	12 mm
13 mm	I	79.5 mm	22.1 mm	19.3 mm	20.1 mm	.26	SMD1213	5	13 mm
14 mm	I	79.5 mm	22.1 mm	21.8 mm	23.9 mm	.26	SMD1214	5	14 mm
15 mm	II	79.5 mm	—	21.8 mm	26.9 mm	.26	SMD1215	5	15 mm
16 mm	II	79.5 mm	—	22.1 mm	30.0 mm	.32	SMD1216	5	16 mm
17 mm	II	79.5 mm	—	24.4 mm	31.0 mm	.32	SMD1217	5	17 mm
18 mm	II	79.5 mm	—	25.4 mm	31.0 mm	.33	SMD1218	5	18 mm
19 mm	II	79.5 mm	—	26.9 mm	33.0 mm	.38	SMD1219	5	19 mm
20 mm	II	79.5 mm	—	27.9 mm	33.0 mm	.41	SMD1220	5	20 mm
21 mm	II	79.5 mm	—	28.4 mm	33.0 mm	.41	SMD1221	5	21 mm
22 mm	II	79.5 mm	—	30.2 mm	33.0 mm	.46	SMD1222	5	22 mm
23 mm	II	79.5 mm	—	31.0 mm	33.0 mm	.51	SMD1223	5	23 mm
24 mm	II	79.5 mm	—	32.0 mm	35.1 mm	.57	SMD1224	5	24 mm
25 mm	II	79.5 mm	—	33.3 mm	35.1 mm	.70	SMD1225	5	25 mm
26 mm	II	79.5 mm	—	34.0 mm	35.1 mm	.74	SMD1226	5	26 mm
27 mm	II	79.5 mm	—	35.8 mm	35.1 mm	.78	SMD1227	5	27 mm

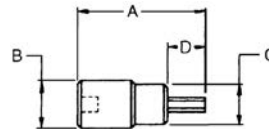


1/2" Drive Metric Socket Wrenches – Chrome



1/2" Drive Metric Crowfoot Wrench — Flare Nut 12 Pt.

Opening	Diameter of Head	Thickness of Head	Width of Slot	Length of Centers	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Opening
	A	B	C	D		Chrome		
28 mm	42.5 mm	23.0 mm	21.0 mm	29.5 mm	.19	SC28MM	5	28 mm
30 mm	44.0 mm	23.0 mm	21.0 mm	30.0 mm	.19	SC30MM	5	30 mm
32 mm	48.0 mm	23.0 mm	24.0 mm	32.0 mm	.19	SC32MM	5	32 mm
34 mm	50.0 mm	24.5 mm	26.5 mm	33.5 mm	.19	SC34MM	5	34 mm
36 mm	52.0 mm	24.5 mm	26.5 mm	34.0 mm	.19	SC36MM	5	36 mm
38 mm	53.5 mm	24.5 mm	28.0 mm	35.0 mm	.19	SC38MM	5	38 mm
40 mm	57.5 mm	24.5 mm	30.0 mm	37.0 mm	.19	SC40MM	5	40 mm
41 mm	57.5 mm	24.5 mm	30.0 mm	37.0 mm	.19	SC41MM	5	41 mm
46 mm	64.0 mm	26.0 mm	33.0 mm	40.5 mm	.25	SC46MM	5	46 mm
50 mm	70.0 mm	28.0 mm	39.5 mm	43.5 mm	.25	SC50MM	5	50 mm



Type I

1/2" Drive Hex Bit Metric Sockets

Bit Size	Type	Length	Drive End	Bit End	Bit Length	Weight Each (lb)	Part Number	Replacement Hex Bit	Std. Pkg. Qty.	Bit Size
		A	B	C	D		Chrome	Hex Bit		
6 mm	I	6 mm	83.5 mm	23.74 mm	45.5 mm	0.2	SA6MM	SA6MMB	5	6 mm
8 mm	I	8 mm	83.5 mm	23.74 mm	45.5 mm	0.2	SA8MM	SA8MMB	5	8 mm
10 mm	I	10 mm	83.5 mm	23.74 mm	45.5 mm	0.25	SA10MM	SA10MMB	5	10 mm
12 mm	I	12 mm	92.5 mm	25.75 mm	54.5 mm	0.35	SA12MM	SA12MMB	5	12 mm
14 mm	I	14 mm	92.5 mm	25.75 mm	54.5 mm	0.4	SA14MM	SA14MMB	5	14 mm
17 mm	I	17 mm	100 mm	27.75 mm	62.7 mm	0.6	SA17MM	SA17MMB	5	17 mm
19 mm	I	19 mm	100 mm	27.75 mm	62.7 mm	0.65	SA19MM	SA19MMB	5	19 mm

1/2" Drive Metric Socket Sets – Chrome



MS10K

METRIC

1/2" DRIVE 12 POINT DEEP METRIC SOCKET SET

16 mm 12 pt. Deep Socket	SMD1216	22 mm 12 pt. Deep Socket	SMD1222
17 mm 12 pt. Deep Socket	SMD1217	24 mm 12 pt. Deep Socket	SMD1224
18 mm 12 pt. Deep Socket	SMD1218	25 mm 12 pt. Deep Socket	SMD1225
19 mm 12 pt. Deep Socket	SMD1219	26 mm 12 pt. Deep Socket	SMD1226
20 mm 12 pt. Deep Socket	SMD1220	Twist Lock Clip Rail	213B
21 mm 12 pt. Deep Socket	SMD1221		



MS16K

METRIC

1/2" DRIVE 12 POINT STANDARD METRIC SOCKET SET

10 mm 12 pt. Std. Socket	STM1210	19 mm 12 pt. Std. Socket	STM1219
11 mm 12 pt. Std. Socket	STM1211	20 mm 12 pt. Std. Socket	STM1220
12 mm 12 pt. Std. Socket	STM1212	21 mm 12 pt. Std. Socket	STM1221
13 mm 12 pt. Std. Socket	STM1213	22 mm 12 pt. Std. Socket	STM1222
14 mm 12 pt. Std. Socket	STM1214	23 mm 12 pt. Std. Socket	STM1223
15 mm 12 pt. Std. Socket	STM1215	10" Ratchet	SF51
16 mm 12 pt. Std. Socket	STM1216	5" Extension	S110P
17 mm 12 pt. Std. Socket	STM1217	Metal Box	95
18 mm 12 pt. Std. Socket	STM1218		



MS17K

METRIC

1/2" DRIVE 12 POINT STANDARD METRIC SOCKET SET

10 mm 12 pt. Socket	STM1210	19 mm 12 pt. Socket	STM1219
11 mm 12 pt. Socket	STM1211	20 mm 12 pt. Socket	STM1220
12 mm 12 pt. Socket	STM1212	21 mm 12 pt. Socket	STM1221
13 mm 12 pt. Socket	STM1213	22 mm 12 pt. Socket	STM1222
14 mm 12 pt. Socket	STM1214	24 mm 12 pt. Socket	STM1224
15 mm 12 pt. Socket	STM1215	10" Reversible Ratchet	SF51
16 mm 12 pt. Socket	STM1216	17" Flexible Handle	SF41
17 mm 12 pt. Socket	STM1217	5" Extension	S110P
18 mm 12 pt. Socket	STM1218	Metal Box	95



MS18K

METRIC

1/2" DRIVE 12 POINT STANDARD METRIC SOCKET SET

9 mm 12 pt. Socket	STM1209	19 mm 12 pt. Socket	STM1219
10 mm 12 pt. Socket	STM1210	20 mm 12 pt. Socket	STM1220
11 mm 12 pt. Socket	STM1211	21 mm 12 pt. Socket	STM1221
12 mm 12 pt. Socket	STM1212	22 mm 12 pt. Socket	STM1222
13 mm 12 pt. Socket	STM1213	24 mm 12 pt. Socket	STM1224
14 mm 12 pt. Socket	STM1214	27 mm 12 pt. Socket	STM1227
15 mm 12 pt. Socket	STM1215	30 mm 12 pt. Socket	STM1230
16 mm 12 pt. Socket	STM1216	32 mm 12 pt. Socket	STM1232
17 mm 12 pt. Socket	STM1217	Twist Lock Clip Rail	218B
18 mm 12 pt. Socket	STM1218		



BC10KM

METRIC

3/8" AND 1/2" DRIVE METRIC HEX BIT SOCKETS SET

4 mm Hex Bit Socket 3/8" Dr.	BA4MM	10 mm Hex Bit Socket 3/8" Dr.	BA10MM
5 mm Hex Bit Socket 3/8" Dr.	BA5MM	12 mm Hex Bit Socket 1/2" Dr.	SA12MM
6 mm Hex Bit Socket 3/8" Dr.	BA6MM	14 mm Hex Bit Socket 1/2" Dr.	SA14MM
7 mm Hex Bit Socket 3/8" Dr.	BA7MM	17 mm Hex Bit Socket 1/2" Dr.	SA17MM
8 mm Hex Bit Socket 3/8" Dr.	BA8MM	Twist Lock Clip Rail	213B
9 mm Hex Bit Socket 3/8" Dr.	BA9MM		





1/2" Drive Metric Socket Sets – Chrome

S7KM

METRIC



1/2" DRIVE METRIC HEX BIT SOCKETS SET

6 mm Hex Bit Socket 1/2" Dr.	SA6MM	14 mm Hex Bit Socket 1/2" Dr.	SA14MM
8 mm Hex Bit Socket 1/2" Dr.	SA8MM	17 mm Hex Bit Socket 1/2" Dr.	SA17MM
10 mm Hex Bit Socket 1/2" Dr.	SA10MM	19 mm Hex Bit Socket 1/2" Dr.	SA19MM
12 mm Hex Bit Socket 1/2" Dr.	SA12MM	Twist Lock Clip Rail	208B

SC10KM

METRIC



1/2" DRIVE 12 POINT METRIC CROWFOOT SOCKET SET

28 mm 12 Pt. Crowfoot	SC28MM	40 mm 12 Pt. Crowfoot	SC40MM
30 mm 12 Pt. Crowfoot	SC30MM	41 mm 12 Pt. Crowfoot	SC41MM
32 mm 12 Pt. Crowfoot	SC32MM	46 mm 12 Pt. Crowfoot	SC46MM
34 mm 12 Pt. Crowfoot	SC34MM	50 mm 12 Pt. Crowfoot	SC50MM
36 mm 12 Pt. Crowfoot	SC36MM	Twist Lock Clip Rail	208B
38 mm 12 Pt. Crowfoot	SC38MM		

MS27K

METRIC



1/2" DRIVE 12 POINT STANDARD METRIC SOCKET SET

10 mm 12 pt. Std. Socket	STM1210	25 mm 12 pt. Std. Socket	STM1225
11 mm 12 pt. Std. Socket	STM1211	26 mm 12 pt. Std. Socket	STM1226
12 mm 12 pt. Std. Socket	STM1212	27 mm 12 pt. Std. Socket	STM1227
13 mm 12 pt. Std. Socket	STM1213	30 mm 12 pt. Std. Socket	STM1230
14 mm 12 pt. Std. Socket	STM1214	32 mm 12 pt. Std. Socket	STM1232
15 mm 12 pt. Std. Socket	STM1215	36 mm 12 pt. Std. Socket	STM1236
16 mm 12 pt. Std. Socket	STM1216	17" Flex Handle	SF41
17 mm 12 pt. Std. Socket	STM1217	10" Ratchet	SF51
18 mm 12 pt. Std. Socket	STM1218	2" Extension	S102P
19 mm 12 pt. Std. Socket	STM1219	5" Extension	S110P
20 mm 12 pt. Std. Socket	STM1220	10" Extension	S115P
21 mm 12 pt. Std. Socket	STM1221	Universal Joint	S140
22 mm 12 pt. Std. Socket	STM1222	Clip Rail	248
23 mm 12 pt. Std. Socket	STM1223	Clip Rail	258
24 mm 12 pt. Std. Socket	STM1224	Metal Box	BX21

MS31K

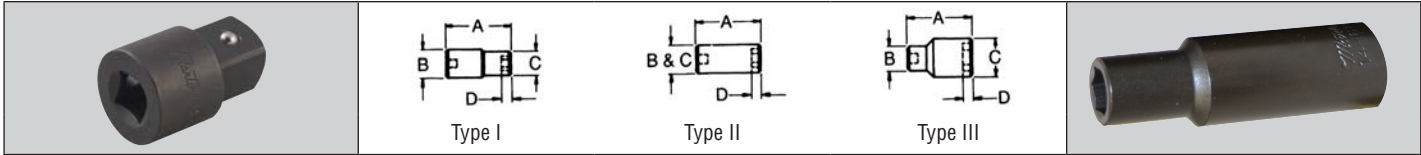
METRIC



1/2" DRIVE 12 POINT STANDARD AND DEEP METRIC SOCKET SET

10 mm 12 pt. Std. Socket	STM1210	16 mm 12 pt. Deep Socket	SMD1216
11 mm 12 pt. Std. Socket	STM1211	17 mm 12 pt. Deep Socket	SMD1217
12 mm 12 pt. Std. Socket	STM1212	18 mm 12 pt. Deep Socket	SMD1218
13 mm 12 pt. Std. Socket	STM1213	19 mm 12 pt. Deep Socket	SMD1219
14 mm 12 pt. Std. Socket	STM1214	20 mm 12 pt. Deep Socket	SMD1220
15 mm 12 pt. Std. Socket	STM1215	21 mm 12 pt. Deep Socket	SMD1221
16 mm 12 pt. Std. Socket	STM1216	22 mm 12 pt. Deep Socket	SMD1222
17 mm 12 pt. Std. Socket	STM1217	24 mm 12 pt. Deep Socket	SMD1224
18 mm 12 pt. Std. Socket	STM1218	25 mm 12 pt. Deep Socket	SMD1225
19 mm 12 pt. Std. Socket	STM1219	26 mm 12 pt. Deep Socket	SMD1226
20 mm 12 pt. Std. Socket	STM1220	5" Extension	S110P
21 mm 12 pt. Std. Socket	STM1221	10" Extension	S115P
22 mm 12 pt. Std. Socket	STM1222	17" Flexible Handle	SF41
23 mm 12 pt. Std. Socket	STM1223	10" Reversible Ratchet	SF51
24 mm 12 pt. Std. Socket	STM1224	Clip Rail	258
25 mm 12 pt. Std. Socket	STM1225	Clip Rail	261
26 mm 12 pt. Std. Socket	STM1226	Metal Box	BX21

1/2" Drive Power/Impact



Martin Heavy-Duty Power Impact Sockets are Specially Designed for Use with All Types of Power Wrenches. All Sockets are Hot Forged from the Finest Alloy Steels for Maximum Strength and Durability. Heat Treated by Carefully Controlled Methods, the Sockets are Accurately Broached in 6 Point Openings. All Power Impact Sockets are Finished in Rust Resistant Black Oxide.

1/2" Square Drive 6 Point Standard

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Opening
		A	B	C	D		Industrial Black		
3/8	I	1-15/32	15/16	21/32	5/32	.14	4612	5	3/8
7/16	I	1-15/32	15/16	45/64	7/32	.16	4614	5	7/16
1/2	I	1-15/32	15/16	25/32	7/64	.18	4616	5	1/2
9/16	I	1-15/32	15/16	55/64	21/64	.17	4618	5	9/16
5/8	II	1-15/32	—	15/16	3/8	.20	4620	5	5/8
11/16	II	1-1/2	—	1	3/8	.23	4622	5	11/16
3/4	II	1-1/2	—	1-5/64	7/16	.23	4624	5	3/4
13/16	II	1-9/16	—	1-5/32	29/64	.25	4626	5	13/16
7/8	II	1-5/8	—	1-7/32	1/2	.31	4628	5	7/8
15/16	II	1-5/8	—	1-19/64	35/64	.33	4630	5	15/16
1	III	1-11/16	1-3/8	1-23/64	35/64	.45	4632	5	1
1-1/16	III	1-3/4	1-3/8	1-7/16	5/8	.50	4634	5	1-1/16
1-1/8	III	1-13/16	1-3/8	1-1/2	21/32	.60	4636	5	1-1/8
1-3/16	III	1-7/8	1-3/8	1-11/16	21/32	.65	4638	5	1-3/16
1-1/4	III	1-59/64	1-3/8	1-3/4	3/4	.70	4640	5	1-1/4
1-5/16	III	2	1-3/8	2-1/64	1-1/16	.80	4642	5	1-5/16
1-3/8	III	2-1/16	1-17/32	2-1/16	1-1/8	.95	4644	5	1-3/8
1-7/16	III	2-1/8	1-17/32	2-5/32	1-5/32	1.00	4646	5	1-7/16
1-1/2	III	2-3/16	1-17/32	2-15/64	1-3/16	1.15	4648	5	1-1/2

1/2" Square Drive 6 Point Deep

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Opening
		A	B	C	D		Industrial Black		
3/8	I	3-1/4	15/16	5/8	5/32	.42	14612	5	3/8
7/16	I	3-1/4	15/16	45/64	7/32	.42	14614	5	7/16
1/2	I	3-1/4	15/16	25/32	17/64	.43	14616	5	1/2
9/16	I	3-1/4	15/16	55/64	21/64	.43	14618	5	9/16
5/8	II	3-1/4	—	15/16	3/8	.40	14620	5	5/8
11/16	II	3-1/4	—	1	2-35/64	.37	14622	5	11/16
3/4	II	3-1/4	—	1-5/64	2-1/2	.45	14624	5	3/4
13/16	II	3-1/4	—	1-5/32	2-1/2	.49	14626	5	13/16
7/8	II	3-1/4	—	1-7/32	2-3/4	.54	14628	5	7/8
15/16	II	3-1/4	—	1-19/64	2-27/64	.62	14630	5	15/16
1	III	3-1/2	1-3/32	1-23/64	2-45/64	.57	14632	5	1
1-1/16	III	3-1/2	1-7/64	1-7/16	2-21/32	.62	14634	5	1-1/16
1-1/8	III	3-1/2	1-7/64	1-5/8	2-5/8	.62	14636	5	1-1/8
1-3/16	III	3-1/2	1-7/64	1-3/4	2-19/32	.73	14638	5	1-3/16
1-1/4	III	3-1/2	1-7/64	1-41/64	2-19/32	.73	14640	5	1-1/4
1-5/16	III	3-5/8	1-7/64	2-1/64	2-9/16	.85	14642	5	1-5/16
1-3/8	III	3-5/8	1-17/32	2-1/16	2-35/64	.89	14644	5	1-3/8
1-7/16	III	3-5/8	1-17/32	2-5/32	2-1/2	.9	14646	5	1-7/16
1-1/2	III	3-5/8	1-17/32	2-15/64	2-1/2	1.0	14648	5	1-1/2

Item	Description	Wt. Ea. (lb)	Part No.	Std. Pkg. Qty.
	Universal 1/2 U-Joint	.44	4140A	5
	Adaptor 1/2 F x 3/8 M	.13	42A	5
	Adaptor 1/2 F x 3/4 M	.44	46	5
	6" Extension	.67	4105A	5

IS6K

1/2" DRIVE 6 POINT STANDARD IMPACT SOCKET SET

1/2" 6 pt. Socket	4616	3/4" 6 pt. Socket	4624
9/16" 6 pt. Socket	4618	13/16" 6 pt. Socket	4626
5/8" 6 pt. Socket	4620	Twist Lock Clip Rail	208R
11/16" 6 pt. Socket	4622		



IS6KD

1/2" DRIVE 6 POINT DEEP IMPACT SOCKET SET

1/2" 6 pt. Deep Socket	14616	3/4" 6 pt. Deep Socket	14624
9/16" 6 pt. Deep Socket	14618	13/16" 6 pt. Deep Socket	14626
5/8" 6 pt. Deep Socket	14620	Twist Lock Clip Rail	208R
11/16" 6 pt. Deep Socket	14622		



IS10KD

1/2" DRIVE 6 POINT DEEP IMPACT SOCKET SET

7/16" 6 pt. Deep Socket	14614	13/16" 6 pt. Deep Socket	14626
1/2" 6 pt. Deep Socket	14616	7/8" 6 pt. Deep Socket	14628
9/16" 6 pt. Deep Socket	14618	15/16" 6 pt. Deep Socket	14630
5/8" 6 pt. Deep Socket	14620	1" 6 pt. Deep Socket	14632
11/16" 6 pt. Deep Socket	14622	Twist Lock Clip Rail	213R
3/4" 6 pt. Deep Socket	14624		



IS10K

1/2" DRIVE 6 POINT STANDARD IMPACT SOCKET SET

7/16" 6 pt. Socket	4614	13/16" 6 pt. Socket	4626
1/2" 6 pt. Socket	4616	7/8" 6 pt. Socket	4628
9/16" 6 pt. Socket	4618	15/16" 6 pt. Socket	4630
5/8" 6 pt. Socket	4620	1" 6 pt. Socket	4632
11/16" 6 pt. Socket	4622	Twist Lock Clip Rail	213R
3/4" 6 pt. Socket	4624		



IS13K

1/2" DRIVE 6 POINT STANDARD IMPACT SOCKET SET

3/8" 6 pt. Socket	4612	13/16" 6 pt. Socket	4626
7/16" 6 pt. Socket	4614	7/8" 6 pt. Socket	4628
1/2" 6 pt. Socket	4616	15/16" 6 pt. Socket	4630
9/16" 6 pt. Socket	4618	1" 6 pt. Socket	4632
5/8" 6 pt. Socket	4620	1-1/16" 6 pt. Socket	4634
11/16" 6 pt. Socket	4622	1-1/8" 6 pt. Socket	4636
3/4" 6 pt. Socket	4624	Twist Lock Clip Rail	213R



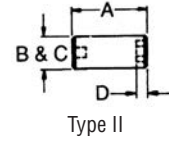
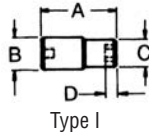
IS15K

1/2" DRIVE 6 POINT STANDARD IMPACT SOCKET SET

3/8" 6 pt. Socket	4612	15/16" 6 pt. Socket	4630
7/16" 6 pt. Socket	4614	1" 6 pt. Socket	4632
1/2" 6 pt. Socket	4616	1-1/16" 6 pt. Socket	4634
9/16" 6 pt. Socket	4618	1-1/8" 6 pt. Socket	4636
5/8" 6 pt. Socket	4620	1-3/16" 6 pt. Socket	4638
11/16" 6 pt. Socket	4622	1-1/4" 6 pt. Socket	4640
3/4" 6 pt. Socket	4624	Twist Lock Clip Rail	213R
13/16" 6 pt. Socket	4626	Twist Lock Clip Rail	208R
7/8" 6 pt. Socket	4628		



1/2" Drive Metric Socket Sets Power/Impact



1/2" Square Drive 6 Point Standard – Metric

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Opening
		A	B	C	D		Industrial Black		
13 mm	I	38.0 mm	24.7 mm	18.9 mm	8.0 mm	.17	4M613	5	13 mm
14 mm	I	38.0 mm	24.7 mm	20.3 mm	9.0 mm	.17	4M614	5	14 mm
15 mm	II	38.0 mm	—	24.7 mm	9.0 mm	.17	4M615	5	15 mm
16 mm	II	38.0 mm	—	24.7 mm	10.0 mm	.17	4M616	5	16 mm
17 mm	II	38.0 mm	—	26.3 mm	11.0 mm	.17	4M617	5	17 mm
18 mm	II	38.0 mm	—	27.2 mm	12.0 mm	.17	4M618	5	18 mm
19 mm	II	41.0 mm	—	29.5 mm	12.0 mm	.09	4M619	5	19 mm
21 mm	II	41.0 mm	—	32.0 mm	13.0 mm	.09	4M621	5	21 mm
22 mm	II	41.0 mm	—	33.0 mm	14.0 mm	.09	4M622	5	22 mm
24 mm	II	41.0 mm	—	35.5 mm	14.5 mm	.09	4M624	5	24 mm
27 mm	II	41.0 mm	—	39.6 mm	14.5 mm	.09	4M627	5	27 mm

MIS6K

METRIC

1/2" DRIVE 6 POINT STANDARD METRIC IMPACT SOCKET SET

13 mm 6 pt. Std. Socket	4M613	17 mm 6 pt. Std. Socket	4M617
14 mm 6 pt. Std. Socket	4M614	18 mm 6 pt. Std. Socket	4M618
15 mm 6 pt. Std. Socket	4M615	Twist Lock Clip Rail	208B
16 mm 6 pt. Std. Socket	4M616		



MIS11K

METRIC

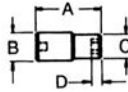
1/2" DRIVE 6 POINT STANDARD METRIC IMPACT SOCKET SET

13 mm 6 pt. Std. Socket	4M613	19 mm 6 pt. Std. Socket	4M619
14 mm 6 pt. Std. Socket	4M614	21 mm 6 pt. Std. Socket	4M621
15 mm 6 pt. Std. Socket	4M615	22 mm 6 pt. Std. Socket	4M622
16 mm 6 pt. Std. Socket	4M616	24 mm 6 pt. Std. Socket	4M624
17 mm 6 pt. Std. Socket	4M617	27 mm 6 pt. Std. Socket	4M627
18 mm 6 pt. Std. Socket	4M618	Twist Lock Clip Rail	213B

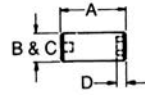




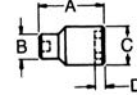
3/4" Drive Sockets & Attachments – Chrome



Type I



Type II



Type III

3/4" Square Drive 12 Point Standard Chrome

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Opening
		A	B	C	D		Chrome		
3/4	I	2	1-19/64	1-13/64	1/2	.40	H1224	5	3/4
13/16	II	2	—	1-19/64	1/2	.41	H1226	5	13/16
7/8	II	2	—	1-11/32	1/2	.35	H1228	5	7/8
15/16	II	2	—	1-3/8	35/64	.43	H1230	5	15/16
1	II	2-1/16	—	1-7/16	35/64	.50	H1232	5	1
1-1/16	III	2-1/16	1-7/16	1-9/16	5/8	.57	H1234	5	1-1/16
1-1/8	III	2-1/8	1-7/16	1-5/8	21/32	.65	H1236	5	1-1/8
1-3/16	III	2-1/16	1-7/16	1-11/16	21/32	.59	H1238	5	1-3/16
1-1/4	III	2-3/16	1-9/16	1-13/16	3/4	.78	H1240	5	1-1/4
1-5/16	III	2-1/4	1-9/16	1-7/8	49/64	.79	H1242	3	1-5/16
1-3/8	III	2-1/4	1-9/16	1-7/8	25/32	.69	H1244	3	1-3/8
1-7/16	III	2-5/16	1-9/16	2-1/64	7/8	.87	H1246	3	1-7/16
1-1/2	III	2-5/16	1-35/64	2-3/32	55/64	.94	H1248	3	1-1/2
1-9/16	III	2-5/16	1-19/32	2-3/32	55/64	.91	H1250	3	1-9/16
1-5/8	III	2-3/8	1-19/32	2-5/32	1	.98	H1252	3	1-5/8
1-11/16	III	2-7/16	1-5/8	2-7/32	1	1.00	H1254	3	1-11/16
1-3/4	III	2-1/2	1-21/32	2-5/16	1-3/32	1.23	H1256	3	1-3/4
1-13/16	III	2-13/16	1-3/4	2-3/8	1-1/8	1.31	H1258	3	1-13/16
1-7/8	III	2-7/8	1-3/4	2-15/32	1-1/8	1.33	H1260	3	1-7/8
2	III	3	1-3/4	2-39/64	1-7/32	1.54	H1264	1	2
2-1/16	III	3-1/32	1-15/16	2-23/32	1-7/32	2.13	H1266	1	2-1/16
2-1/8	III	3-1/16	1-15/16	2-55/64	1-7/32	2.19	H1268	1	2-1/8
2-3/16	III	3-1/16	1-15/16	2-55/64	1-3/8	2.00	H1270	1	2-3/16
2-1/4	III	3-3/16	2	3-1/16	1-3/8	2.50	H1272	1	2-1/4
2-3/8	III	3-1/4	2	3-1/16	1-3/8	2.16	H1276	1	2-3/8

Item	3/4" Attachment	Description	Weight Each (lb)	Chrome Part No.	Black Part No.	Std. Pkg. Qty.
Flexible Handle		21-5/8" Flexible Hdl.	5.63	H41A	—	1
		21-5/8" Flexible Hdl.	5.63	—	BLKH41A	1
Ratchet		20° Rev. Ratchet	5.38	H51	—	1
Repair Kit		Ratchet Repair Kit	1	H51RU	—	1
Ratchet		24° Rev. Ratchet	5.38	—	BLKH51	1
Repair Kit		Ratchet Repair Kit	1	—	BLKH51RU	1
Sliding T		17-1/2" Sliding Hdl.	2.45	H20A	—	1
Extension		3-1/2" Extension	1.27	H104	—	1
		8" Extension	2.25	H110	—	1
		16" Extension	3.13	H115	—	1
Universal		U-Joint	1.08	H140	—	1

3/4" Drive Socket Sets – Chrome



H12K

3/4" DRIVE 12 POINT STANDARD SOCKET SET

7/8" 12 pt. Socket	H1228	1-7/16" 12 pt. Socket	H1246
15/16" 12 pt. Socket	H1230	1-1/2" 12 pt. Socket	H1248
1-1/16" 12 pt. Socket	H1234	1-5/8" 12 pt. Socket	H1252
1-1/8" 12 pt. Socket	H1236	Rev. Ratchet	H51
1-1/4" 12 pt. Socket	H1240	8" Extension	H110
1-5/16" 12 pt. Socket	H1242	Metal Box	96A
1-3/8" 12 pt. Socket	H1244		



H17K

3/4" DRIVE 12 POINT STANDARD SOCKET SET

7/8" 12 pt. Socket	H1228	1-5/8" 12 pt. Socket	H1252
15/16" 12 pt. Socket	H1230	1-3/4" 12 pt. Socket	H1256
1-1/16" 12 pt. Socket	H1234	1-13/16" 12 pt. Socket	H1258
1-1/8" 12 pt. Socket	H1236	1-7/8" 12 pt. Socket	H1260
1-1/4" 12 pt. Socket	H1240	2" 12 pt. Socket	H1264
1-5/16" 12 pt. Socket	H1242	Rev. Ratchet	H51
1-3/8" 12 pt. Socket	H1244	8" Extension	H110
1-7/16" 12 pt. Socket	H1246	16" Extension	H115
1-1/2" 12 pt. Socket	H1248	Metal Box	237



H20K

3/4" DRIVE 12 POINT STANDARD SOCKET SET

7/8" 12 pt. Socket	H1228	1-11/16" 12 pt. Socket	H1254
15/16" 12 pt. Socket	H1230	1-3/4" 12 pt. Socket	H1256
1" 12 pt. Socket	H1232	1-13/16" 12 pt. Socket	H1258
1-1/16" 12 pt. Socket	H1234	1-7/8" 12 pt. Socket	H1260
1-1/8" 12 pt. Socket	H1236	2" 12 pt. Socket	H1264
1-1/4" 12 pt. Socket	H1240	Rev. Ratchet	H51
1-5/16" 12 pt. Socket	H1242	3-1/2" Extension	H104
1-3/8" 12 pt. Socket	H1244	8" Extension	H110
1-7/16" 12 pt. Socket	H1246	2-15/8" Flexible Hdle.	H41A
1-1/2" 12 pt. Socket	H1248	Metal Box	237
1-5/8" 12 pt. Socket	H1252		

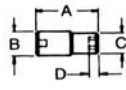


H22K

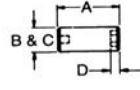
3/4" DRIVE 12 POINT STANDARD SOCKET SET

7/8" 12 pt. Socket	H1228	1-11/16" 12 pt. Socket	H1254
15/16" 12 pt. Socket	H1230	1-3/4" 12 pt. Socket	H1256
1" 12 pt. Socket	H1232	1-13/16" 12 pt. Socket	H1258
1-1/16" 12 pt. Socket	H1234	1-7/8" 12 pt. Socket	H1260
1-1/8" 12 pt. Socket	H1236	2" 12 pt. Socket	H1264
1-1/4" 12 pt. Socket	H1240	Rev. Ratchet	H51
1-5/16" 12 pt. Socket	H1242	3-1/2" Extension	H104
1-3/8" 12 pt. Socket	H1244	8" Extension	H110
1-7/16" 12 pt. Socket	H1246	16" Extension	H115
1-1/2" 12 pt. Socket	H1248	Universal Joint	H140
1-9/16" 12 pt. Socket	H1250	Metal Box	237
1-5/8" 12 pt. Socket	H1252		

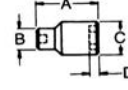




Type I



Type II



Type III



3/4" Square Drive 6 Point Standard

Opening	Type	Length		Drive End	Opening End	Minimum Depth		Weight Each (lb)	Part Number	Std. Pkg. Qty.	Opening
		A	B	C	D	Industrial Black					
5/8	I	2-1/8	1-5/8	1-5/8	1-5/8	9/32	.65	6620	5	5/8	
11/16	I	2-1/8	1-5/8	1-5/8	1-5/8	5/16	.66	6622	5	11/16	
3/4	I	2-1/8	1-5/8	1-15/64	1-15/64	9/16	.67	6624	5	3/4	
13/16	I	2-1/8	1-5/8	1-23/64	1-23/64	39/64	.75	6626	5	13/16	
7/8	I	2-1/8	1-5/8	1-1/2	1-1/2	39/64	.91	6628	5	7/8	
15/16	I	2-1/8	1-5/8	1-9/16	1-9/16	19/32	.77	6630	5	15/16	
1	II	2-1/8	—	1-5/8	1-5/8	35/64	.85	6632	5	1	
1-1/16	II	2-1/8	—	1-11/16	1-11/16	13/16	.83	6634	5	1-1/16	
1-1/8	II	2-1/8	—	1-3/4	1-3/4	13/16	.92	6636	5	1-1/8	
1-3/16	II	2-1/8	—	1-7/8	1-7/8	7/8	.94	6638	5	1-3/16	
1-1/4	II	2-1/8	—	2	2	29/32	1.24	6640	3	1-1/4	
1-5/16	II	2-1/8	—	2	2	49/64	1.38	6642	3	1-5/16	
1-3/8	III	2-1/4	1-29/32	2-1/8	2-1/8	25/32	1.38	6644	3	1-3/8	
1-7/16	III	2-1/4	1-29/32	2-1/8	2-1/8	51/64	1.33	6646	3	1-7/16	
1-1/2	III	2-1/2	1-29/32	2-5/16	2-5/16	55/64	1.71	6648	3	1-1/2	
1-9/16	III	2-1/2	1-29/32	2-13/32	2-13/32	55/64	1.80	6650	3	1-9/16	
1-5/8	III	2-1/2	1-29/32	2-7/16	2-7/16	1	1.83	6652	3	1-5/8	
1-11/16	III	2-5/8	1-29/32	2-1/2	2-1/2	1	1.90	6654	3	1-11/16	
1-3/4	III	2-5/8	1-29/32	2-9/16	2-9/16	1	2.01	6656	3	1-3/4	
1-13/16	III	2-5/8	1-29/32	2-5/8	2-5/8	1	2.16	6658	3	1-13/16	
1-7/8	III	2-3/4	1-29/32	2-23/32	2-23/32	1-1/16	2.20	6660	3	1-7/8	
1-15/16	III	2-3/4	1-29/32	2-13/16	2-13/16	1-1/16	2.25	6662	3	1-15/16	
2	III	2-7/8	1-29/32	2-15/16	2-15/16	1-1/16	2.30	6664	3	2	
2-1/16	III	2-7/8	1-29/32	2-31/32	2-31/32	1-35/64	—	6666	3	2-1/16	
2-1/8	III	3-1/16	1-29/32	3-3/64	3-3/64	1-23/32	—	6668	3	2-1/8	
2-3/16	III	3-3/16	1-29/32	3-9/64	3-9/64	1-13/16	—	6670	3	2-3/16	
2-1/4	III	3-3/16	1-29/32	3-7/32	3-7/32	1-51/64	—	6672	3	2-1/4	
2-3/8	III	3-1/4	1-29/32	3-3/8	3-3/8	2-1/16	—	6676	3	2-3/8	
2-7/16	III	3-1/4	2-1/4	3-25/64	3-25/64	1-15/16	—	6678	3	2-7/16	
2-1/2	III	3-1/4	2-1/4	3-17/32	3-17/32	1-15/16	—	6680	3	2-1/2	

3/4" Square Drive 6 Point Deep

Opening	Type	Length		Drive End	Opening End	Minimum Depth		Weight Each (lb)	Part Number	Std. Pkg. Qty.	Opening
		A	B	C	D	Industrial Black					
3/4	I	3-1/8	1-5/8	1-15/64	1-15/64	21/64	1.10	16624	5	3/4	
13/16	I	3-1/8	1-5/8	1-23/64	1-23/64	3/8	1.14	16626	5	13/16	
7/8	I	3-1/8	1-5/8	1-1/2	1-1/2	3/8	1.24	16628	5	7/8	
15/16	I	3-1/8	1-5/8	1-9/16	1-9/16	19/32	1.10	16630	5	15/16	
1	II	3-1/8	—	1-5/8	1-5/8	35/64	1.30	16632	5	1	
1-1/16	I	3-1/2	1-3/4	1-5/8	1-5/8	13/16	1.42	16634	5	1-1/16	
1-1/8	I	3-1/2	1-3/4	1-11/16	1-11/16	13/16	1.39	16636	3	1-1/8	
1-3/16	I	3-1/2	1-7/8	1-13/16	1-13/16	13/16	1.63	16638	3	1-3/16	
1-1/4	II	3-1/2	—	1-13/16	1-13/16	29/32	1.58	16640	3	1-1/4	
1-5/16	II	3-1/2	—	2	2	7/8	2.02	16642	3	1-5/16	
1-3/8	III	3-1/2	1-29/32	2-1/8	2-1/8	7/8	2.13	16644	3	1-3/8	
1-7/16	III	3-1/2	1-29/32	2-1/8	2-1/8	7/8	2.00	16646	3	1-7/16	
1-1/2	III	3-1/2	1-29/32	2-5/16	2-5/16	55/64	2.33	16648	3	1-1/2	
1-9/16	III	3-1/2	1-29/32	2-13/32	2-13/32	55/64	2.50	16650	3	1-9/16	
1-5/8	III	3-1/2	1-29/32	2-7/16	2-7/16	55/64	2.70	16652	3	1-5/8	
1-11/16	III	3-1/2	1-29/32	2-1/2	2-17/64	2-17/64	3.00	16654	3	1-11/16	
1-3/4	III	3-1/2	1-29/32	2-7/16	2-13/64	2-13/64	3.20	16656	3	1-3/4	
1-13/16	III	3-1/2	1-29/32	2-7/16	2-13/64	2-13/64	3.20	16658	3	1-13/16	
1-7/8	III	3-1/2	1-29/32	2-23/32	2-15/16	2-15/16	3.40	16660	3	1-7/8	
2	III	3-3/4	1-29/32	2-15/16	2-25/16	2-25/16	4.00	16664	3	2	
2-1/16	III	3-3/4	1-29/32	2-31/32	2-7/16	2-7/16	—	16666	3	2-1/16	
2-1/8	III	3-3/4	1-29/32	3-3/64	2-7/16	2-7/16	—	16668	3	2-1/8	
2-3/16	III	4-1/4	1-29/32	3-3/64	2-1/2	2-1/2	—	16670	3	2-3/16	
2-1/4	III	4-1/4	1-29/32	3-9/64	2-1/2	2-1/2	—	16672	3	2-1/4	
2-3/8	III	4-1/4	1-29/32	3-3/8	2-1/2	2-1/2	—	16676	3	2-3/8	
2-7/16	III	4-1/4	2-1/4	3-29/64	2-1/2	2-1/2	—	16678	3	2-7/16	
2-1/2	III	4-1/4	2-1/4	3-17/32	2-7/8	2-7/8	—	16680	3	2-1/2	

3/4" Drive Power/Impact Attachments & Socket Sets



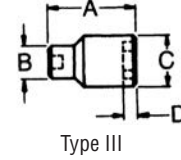
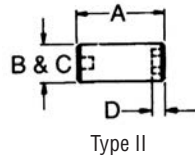
Type	Item	Description	Wt. Each (lb)	Part Number	Std. Pkg. Qty.
Adaptor		3/4F x 1/2M	.06	64A	5
		3/4F x 1M	.06	67	5
Extension		7" Extension	1.77	6107	5
		10" Extension	2.25	6110	5
		13" Extension	4.15	6113	5
Universal Joint		4-1/16 Length Max.	.77	6140A	5
Ret Ring®		Fits Part No. 64A	.01	M10005S	1
		Fits Part No. 67	.01	M10032S	1
		Fits Part No. 6107	.01	M10032S	1
		Fits Part No. 6110	.01	M10032S	1
		Fits Part No. 6113	.01	M10032S	1
		Fits Part No. 6140A	.01	M10032S	1
		Fits Part No. 6620 - 6634	.01	M10032S	1
		Fits Part No. 6636	.01	M10034S	1
		Fits Part No. 6638 - 6664	.01	M18708S	1
		Fits Part No. 16624 - 16634	.01	M10032S	1
		Fits Part No. 16636 - 16664	.01	M10034S	1

IH8K			
3/4" DRIVE 6 POINT DEEP IMPACT SOCKET SET			
7/8" 6 pt. Deep Impact Socket	16628	1-1/8" 6 pt. Deep Impact Socket	16636
15/16" 6 pt. Deep Impact Socket	16630	1-1/4" 6 pt. Deep Impact Socket	16640
1" 6 pt. Deep Impact Socket	16632	1-5/16" 6 pt. Deep Impact Socket	16642
1-1/16" 6 pt. Deep Impact Socket	16634	1-1/2" 6 pt. Deep Impact Socket	16648



IH9K			
3/4" DRIVE 6 POINT DEEP IMPACT SOCKET SET			
3/4" 6 pt. Std. Impact Socket	6624	1-1/16" 6 pt. Std. Impact Socket	6634
13/16" 6 pt. Std. Impact Socket	6626	1-1/8" 6 pt. Std. Impact Socket	6636
7/8" 6 pt. Std. Impact Socket	6628	1-3/16" 6 pt. Std. Impact Socket	6638
15/16" 6 pt. Std. Impact Socket	6630	1-1/4" 6 pt. Std. Impact Socket	6640
1" 6 pt. Std. Impact Socket	6632		





1" Square Drive 12 Point Standard Chrome

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Opening
		A	B	C	D		Chrome		
1-1/16	II	2-9/32	—	1-41/64	5/8	.90	X1234	1	1-1/16
1-1/8	II	2-9/32	—	1-11/16	21/32	.90	X1236	1	1-1/8
13/16	II	2-9/32	—	1-3/4	21/32	.90	X1238	1	1-3/16
1-1/4	II	2-9/32	—	1-13/16	3/4	.90	X1240	1	1-1/4
1-5/16	III	2-11/32	—	1-7/8	49/64	.90	X1242	1	1-5/16
1-3/8	III	2-7/16	1-3/4	1-15/16	25/32	.94	X1244	1	1-3/8
1-7/16	III	2-1/2	1-3/4	2	7/8	.94	X1246	1	1-7/16
1-1/2	III	2-9/16	1-3/4	2-1/8	55/64	1.06	X1248	1	1-1/2
1-5/8	III	2-11/16	1-3/4	2-1/4	1	1.06	X1252	1	1-5/8
1-11/16	III	2-3/4	1-15/16	2-3/8	1	1.50	X1254	1	1-11/16
1-3/4	III	2-13/16	1-15/16	2-1/2	1-3/32	1.50	X1256	1	1-3/4
1-13/16	III	2-7/8	1-15/16	2-9/16	1-1/8	1.63	X1258	1	1-13/16
1-7/8	III	2-15/16	2-1/4	2-5/8	1-1/8	1.94	X1260	1	1-7/8
1-15/16	III	3	2-1/4	2-3/4	1-7/32	2.25	X1262	1	1-15/16
2	III	3	2-1/4	2-3/4	1-7/32	2.19	X1264	1	2
2-1/8	III	3-1/16	2-1/4	2-15/16	1-3/8	2.44	X1268	1	2-1/8
2-3/16	III	3-1/8	2-1/4	3	1-3/8	2.50	X1270	1	2-3/16
2-1/4	III	3-3/16	2-1/4	3-1/16	1-3/8	2.38	X1272	1	2-1/4
2-5/16	III	3-1/4	2-1/4	3-5/32	1-3/8	2.69	X1274	1	2-5/16
2-3/8	III	3-5/16	2-1/4	3-1/4	1-3/8	2.88	X1276	1	2-3/8
2-7/16	III	3-3/8	2-1/4	3-5/16	1-3/8	2.88	X1278	1	2-7/16
2-1/2	III	3-7/16	2-1/4	3-3/8	1-3/8	3.00	X1280	1	2-1/2
2-9/16	III	3-1/2	2-1/4	3-3/8	1-1/2	3.13	X1282	1	2-9/16
2-5/8	III	3-9/16	2-1/4	3-9/16	1-3/4	3.63	X1284	1	2-5/8
2-3/4	III	3-11/16	2-43/64	3-23/32	1-3/4	4.63	X1288	1	2-3/4
2-13/16	III	3-3/4	2-43/64	3-53/64	1-3/4	5.13	X1290	1	2-13/16
2-15/16	III	3-7/8	2-43/64	3-61/64	2	5.25	X1294	1	2-15/16
3	III	3-15/16	2-43/64	4-1/64	2	5.56	X1296	1	3
3-1/8	III	4-1/16	2-43/64	4-11/64	2-13/64	5.25	X12100	1	3-1/8
3-3/8	III	4-1/16	2-43/64	4-17/32	2-13/64	6.31	X12108	1	3-3/8
3-1/2	III	4-1/16	2-43/64	4-11/16	2-13/64	6.50	X12112	1	3-1/2

Martin Heavy-Duty Chrome Hand Tool Sockets are Manufactured to Extremely Close Tolerances of American Alloy Steel. The 12 Point Broach Opening Provides a Secure Fit for Absolute Tightening and Loosening.

WARNING: Only Power Impact Sockets Should Be Used on Pneumatic or Electric Impact Wrenches. Never Use Chrome Sockets.

1" Drive Attachments & Socket Set



Item	1" Attachment	Description	Weight Each (lb)	Part Number		Std. Pkg. Qty.
				Chrome	Ind. Black	
Ratchet		30" Rev. Ratchet	7.94	X51	-	1
Repair Kit		Ratchet Repair	1.13	BLKX51RU	-	1
Ratchet		30" Rev. Ratchet	1.13	-	BLKX51	1
Repair Kit		Ratchet Repair	1.13	-	BLKX51RU	1
Extension		8" Extension	2.31	X108	-	1
		17" Extension	4.31	X117	-	1
Flex Handle		26" Flexible Hdle.	8.19	X41A	-	1

X21K

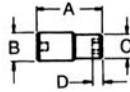
1" DRIVE 12 POINT STANDARD SOCKET SET

1-7/16" 12 pt. Std. Socket	X1246	2-3/8" 12 pt. Std. Socket	X1276
1-1/2" 12 pt. Std. Socket	X1248	2-1/2" 12 pt. Std. Socket	X1280
1-5/8" 12 pt. Std. Socket	X1252	2-5/8" 12 pt. Std. Socket	X1284
1-11/16" 12 pt. Std. Socket	X1254	2-3/4" 12 pt. Std. Socket	X1288
1-3/4" 12 pt. Std. Socket	X1256	2-15/16" 12 pt. Std. Socket	X1294
1-13/16" 12 pt. Std. Socket	X1258	3-1/8" 12 pt. Std. Socket	X12100
1-7/8" 12 pt. Std. Socket	X1260	Reversible Ratchet	X51
2" 12 pt. Std. Socket	X1264	8" Extension	X108
2-1/8" 12 pt. Std. Socket	X1268	17" Extension	X117
2-3/16" 12 pt. Std. Socket	X1270	Flexible Handle	X41A
2-1/4" 12 pt. Std. Socket	X1272	Metal Box	299

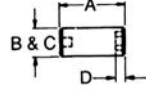


Martin Heavy-Duty Chrome Hand Tool Sockets are Manufactured to Extremely Close Tolerances of American Alloy Steel. The 12 Point Broach Opening Provides a Secure Fit for Absolute Tightening and Loosening.

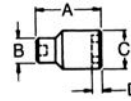
WARNING: Only Power Impact Sockets Should Be Used on Pneumatic or Electric Impact Wrenches. Never Use Chrome Sockets.



Type I



Type II



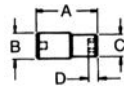
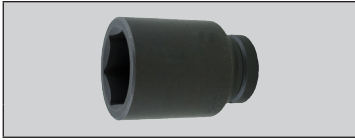
Type III



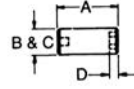
1" Drive 6 Point Standard

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Opening
		A	B	C	D		Industrial Black		
3/4	I	2-1/4	2	1-7/16	1-1/4	1.13	7624	1	3/4
13/16	I	2-1/4	2	1-7/16	1-1/4	1.00	7626	1	13/16
7/8	I	2-13/32	2	1-17/32	45/64	1.06	7628	1	7/8
15/16	I	2-7/16	2	1-9/16	23/32	1.06	7630	1	15/16
1	I	2-17/32	2	1-21/32	49/64	1.19	7632	1	1
1-1/16	I	2-9/16	2	1-3/4	13/64	1.25	7634	1	1-1/16
1-1/8	I	2-9/16	2	1-13/16	27/64	1.25	7636	1	1-1/8
1-3/16	II	2-11/16	—	2-1/16	29/32	1.50	7638	1	1-3/16
1-1/4	II	2-11/16	—	2-1/16	29/32	1.50	7640	1	1-1/4
1-5/16	II	2-11/16	—	2-1/16	49/64	1.44	7642	1	1-5/16
1-3/8	III	2-11/16	2-1/8	2-1/4	49/64	1.69	7644	1	1-3/8
1-7/16	III	2-11/16	2-1/8	2-1/4	55/64	1.63	7646	1	1-7/16
1-1/2	III	2-11/16	2-1/8	2-1/4	55/64	1.56	7648	1	1-1/2
1-9/16	III	2-11/16	2-1/4	2-1/2	1	1.75	7650	1	1-9/16
1-5/8	III	2-11/16	2-1/4	2-1/2	1	1.81	7652	1	1-5/8
1-11/16	III	2-11/16	2-1/4	2-1/2	1	1.88	7654	1	1-11/16
1-3/4	III	2-11/16	2-7/16	2-3/4	1	2.50	7656	1	1-3/4
1-13/16	III	2-11/16	2-7/16	2-3/4	1-1/16	2.50	7658	1	1-13/16
1-7/8	III	2-3/16	2-7/16	2-3/4	1-1/16	2.56	7660	1	1-7/8
1-15/16	III	3	2-7/16	2-63/64	1-1/16	3.00	7662	1	1-15/16
2	III	3	2-7/16	2-63/64	1-11/64	2.88	7664	1	2
2-1/16	III	3	2-7/16	2-63/64	1-11/64	2.81	7666	1	2-1/16
2-1/8	III	3	2-7/16	3-1/4	1-13/64	3.63	7668	1	2-1/8
2-3/16	III	3-3/16	2-7/16	31/4	1-9/32	3.38	7670	1	2-3/16
2-1/4	III	3-3/16	2-7/16	3-1/4	1-9/32	3.19	7672	1	2-1/4
2-5/16	III	3-3/16	2-7/16	3-1/2	1-5/16	3.88	7674	1	2-5/16
2-3/8	III	3-1/4	2-7/16	3-1/2	1-23/64	3.75	7676	1	2-3/8
2-7/16	III	3-9/32	2-7/16	3-1/2	1-3/8	3.44	7678	1	2-7/16
2-1/2	III	3-5/16	2-7/16	3-1/2	1-1/2	3.78	7680	1	2-1/2
2-9/16	III	3-15/32	2-3/4	3-5/8	1-3/4	4.90	7682	1	2-9/16
2-5/8	III	3-15/32	2-3/4	3-45/64	1-3/4	4.95	7684	1	2-5/8
2-11/16	III	3-15/32	2-3/4	3-53/64	1-1/2	4.88	7686	1	2-11/16
2-3/4	III	3-9/16	2-3/4	3-53/64	1-3/4	4.94	7688	1	2-3/4
2-13/16	III	3-11/16	2-3/4	4-1/64	1-3/4	5.01	7690	1	2-13/16
2-7/8	III	3-3/4	2-3/4	4	1-3/4	5.30	7692	1	2-7/8
2-15/16	III	3-3/4	2-3/4	4-1/64	2	5.56	7694	1	2-15/16
3	III	3-7/8	2-3/4	4-11/64	2	5.75	7696	1	3
3-1/8	III	3-15/16	2-3/4	4-11/64	2-13/64	5.63	76100	1	3-1/8
3-1/4	III	4-1/16	2-3/4	4-35/64	2	6.19	76104	1	3-1/4
3-3/8	III	4-3/16	2-3/4	4-17/32	2-13/64	7.06	76108	1	3-3/8
3-1/2	III	4-5/16	2-3/4	4-11/16	2-13/64	7.25	76112	1	3-1/2

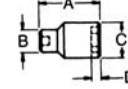
1" Drive Power/Impact Deep/Attachments



Type I



Type II

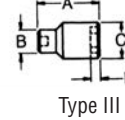
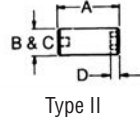
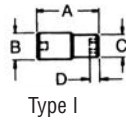


Type III

1" Drive 6 Point Deep

Opening	Type	Length	Drive End	Opening End	Minimum Depth	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Opening
		A	B	C	D		Industrial Black		
3/4	I	3	2	1-7/16	23/64	2.25	17624	1	3/4
13/16	I	3	2	1-7/16	27/64	2.38	17626	1	13/16
7/8	I	3	2	1-17/32	39/64	2.41	17628	1	7/8
15/16	I	3	2	1-9/16	23/32	2.43	17630	1	15/16
1	I	3	2	1-21/32	23/32	2.38	17632	1	1
1-1/16	I	3	2	1-3/4	3/4	2.38	17634	1	1-1/16
1-1/8	I	3	2	1-13/16	13/16	2.39	17636	1	1-1/8
1-3/16	II	3	—	2-1/16	7/8	2.33	17638	1	1-3/16
1-1/4	II	3	—	2-1/16	29/32	2.31	17640	1	1-1/4
15/16	II	3	—	2-1/16	15/16	2.25	17642	1	1-5/16
1-3/8	III	3	2-1/8	2-1/4	49/64	2.10	17644	1	1-3/8
1-7/16	III	3	2-1/8	2-1/4	49/64	2.25	17646	1	1-7/16
1-1/2	III	4	2-1/8	2-1/4	55/64	2.75	17648	1	1-1/2
1-9/16	III	4	2-1/4	2-1/2	55/64	2.83	17650	1	1-9/16
1-5/8	III	4	2-1/4	2-1/2	1	2.84	17652	1	1-5/8
1-11/16	III	4	2-7/16	2-3/4	1	3.46	17654	1	1-11/16
1-3/4	III	4-1/16	2-7/16	2-3/4	1	3.46	17656	1	1-3/4
1-13/16	III	4-1/8	2-7/16	2-3/4	1	3.81	17658	1	1-13/16
1-7/8	III	4-3/16	2-7/16	2-3/4	1-1/16	3.85	17660	1	1-7/8
1-15/16	III	4-1/4	2-7/16	2-31/32	1-1/16	4.80	17662	1	1-15/16
2	III	4-5/16	2-7/16	2-31/32	1-1/16	4.52	17664	1	2
2-1/16	III	4-3/8	2-7/16	2-31/32	1-11/64	4.73	17666	1	2-1/16
2-1/8	III	4-7/16	2-7/16	3-1/4	1-11/64	5.00	17668	1	2-1/8
2-3/16	III	4-1/2	2-7/16	3-1/4	1-13/64	5.60	17670	1	2-3/16
2-1/4	III	4-21/32	2-7/16	3-1/4	1-9/32	5.30	17672	1	2-1/4
2-5/16	III	4-23/32	2-7/16	3-13/32	1-9/32	5.90	17674	1	2-5/16
2-3/8	III	4-3/4	2-7/16	3-31/64	1-5/16	6.50	17676	1	2-3/8

Type	Item	Description	Wt. Each (lb)	Part Number	Std. Pkg. Qty.
Adaptor Universal		1F x 3/4M	1	76	1
		1F x 1-1/2M	1	77	1
		Max. Length 4.5"	3.04	7140A	1
Extension		7" Extension	3.56	7107	1
		10" Extension	6	7110	1
		13" Extension	8.5	7113	1
Ret Ring®		Fits Part No. 76	0.01	M10008S	1
		Fits Part No. 77, 7140A, 7107, 7110, 7113	0.01	M10010S	1
		Fits Part No. 7624 - 7642	0.01	M10008S	1
		Fits Part No. 7644 - 7648	0.01	M10010S	1
		Fits Part No. 7650 - 7654	0.01	M10015S	1
		Fits Part No. 7656 - 7680	0.01	M10016S	1
		Fits Part No. 7684 - 7696	0.01	M10017S	1
		Fits Part No. 76100 - 76112	0.01	M10017S	1
		Fits Part No. 17624 - 17642	0.01	M10008S	1
		Fits Part No. 17644 - 17648	0.01	M10010S	1
		Fits Part No. 17650 - 17652	0.01	M10015S	1
Fits Part No. 17654 - 17676	0.01	M10016S	1		



1-1/2" Drive 6 Point Standard

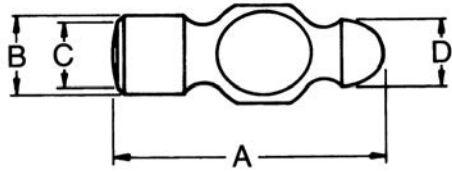
Opening	Type	Length	Drive End	Opening End	Minimum Depth	Weight Each (lb)	Part Number	Std. Pkg. Qty.	Opening
		A	B	C	D		Industrial Black		
1-3/8	I	3-1/8	3-1/4	2-3/4	3-7/4	5.70	8644	1	1-3/8
1-7/16	I	3-1/8	3-1/4	2-3/4	3-7/4	5.70	8646	1	1-7/16
1-1/2	I	3-1/8	3-1/4	2-7/8	5-5/64	5.70	8648	1	1-1/2
1-9/16	I	3-1/8	3-1/4	2-7/8	5-5/64	5.70	8650	1	1-9/16
1-5/8	I	3-3/16	3-1/4	3	5-5/64	5.70	8652	1	1-5/8
1-11/16	I	3-3/16	3-1/4	3	6-3/64	5.70	8654	1	1-11/16
1-3/4	I	3-1/4	3-1/4	3-1/8	6-3/64	5.70	8656	1	1-3/4
1-13/16	I	3-1/4	3-1/4	3-1/8	1	5.70	8658	1	1-13/16
1-7/8	I	3-3/8	3-1/4	3-1/8	1-1/16	5.70	8660	1	1-7/8
1-15/16	I	3-1/2	3-1/4	3-1/8	1-1/16	5.70	8662	1	1-15/16
2	II	3-5/8	—	3-1/4	1-1/16	5.70	8664	1	2
2-1/16	II	3-5/8	—	3-1/4	1-11/64	5.70	8666	1	2-1/16
2-1/8	III	3-5/8	3-1/4	3-1/2	1-11/64	6-.30	8668	1	2-1/8
2-3/16	III	3-5/8	3-1/4	3-1/2	1-13/64	6-.40	8670	1	2-3/16
2-1/4	III	3-3/4	3-1/4	3-3/4	1-9/32	6-.80	8672	1	2-1/4
2-5/16	III	3-3/4	3-1/4	3-3/4	1-9/32	7.20	8674	1	2-5/16
2-3/8	III	3-7/8	3-1/4	3-3/4	1-5/16	7.60	8676	1	2-3/8
2-7/16	III	3-7/8	3-1/4	3-7/8	1-23/64	7.90	8678	1	2-7/16
2-1/2	III	4	3-1/4	3-7/8	1-23/64	8.20	8680	1	2-1/2
2-9/16	III	4	3-1/4	4	1-25/64	8.50	8682	1	2-9/16
2-5/8	III	4-1/8	3-1/4	4	1-15/32	8.80	8684	1	2-5/8
2-11/16	III	4-1/4	3-1/4	4-1/8	1-15/32	8.90	8686	1	2-11/16
2-3/4	III	4-1/4	3-1/4	4-1/4	1-1/2	9.10	8688	1	2-3/4
2-13/16	III	4-3/8	3-1/4	4-1/4	1-37/64	9.30	8690	1	2-13/16
2-7/8	III	4-3/8	3-1/4	4-1/2	1-37/64	9.50	8692	1	2-7/8
2-15/16	III	4-1/2	3-1/4	4-1/2	1-5/8	9.80	8694	1	2-15/16
3	III	4-1/2	3-1/4	4-3/4	1-11/16	9.90	8696	1	3
3-1/16	III	4-5/8	3-1/4	4-3/4	1-11/16	12.70	8698	1	3-1/16
3-1/8	III	4-5/8	3-1/4	4-3/4	1-23/32	12.70	86100	1	3-1/8
3-3/16	III	4-11/16	3-1/4	4-3/4	1-23/32	12.50	86102	1	3-3/16
3-1/4	III	4-11/16	3-1/4	5	1-23/32	14.00	86104	1	3-1/4
3-5/16	III	4-11/16	3-1/4	5	1-23/32	13.70	86106	1	3-5/16
3-3/8	III	4-11/16	3-1/4	5	1-7/8	13.40	86108	1	3-3/8
3-7/16	III	4-3/4	3-1/4	5	1-7/8	13.50	86110	1	3-7/16
3-1/2	III	4-3/4	3-1/4	5-1/8	1-59/64	13.90	86112	1	3-1/2
3-9/16	III	5	3-1/4	5-1/8	1-59/64	14.40	86114	1	3-9/16
3-5/8	III	5	3-1/4	5-1/4	1-59/64	15.00	86116	1	3-5/8
3-11/16	III	5	3-1/4	5-1/4	1-59/64	14.70	86118	1	3-11/16
3-3/4	III	5	3-1/4	5-1/2	1-59/64	14.70	86120	1	3-3/4
3-13/16	III	5-1/4	3-1/4	5-1/2	1-59/64	16.00	86122	1	3-13/16
3-7/8	III	5-1/4	3-1/4	5-1/2	1-59/64	15.50	86124	1	3-7/8
3-15/16	III	5-1/2	3-1/4	5-3/4	1-59/64	18.40	86126	1	3-15/16
4	III	5-1/2	3-1/4	5-3/4	1-59/64	18.00	86128	1	4
4-1/16	III	5-1/2	3-1/4	5-3/4	1-59/64	17.50	86130	1	4-1/16
4-1/8	III	5-5/8	3-1/4	6	1-59/64	20.20	86132	1	4-1/8
4-3/16	III	5-5/8	3-1/4	6	1-59/64	19.70	86134	1	4-3/16
4-1/4	III	5-5/8	3-1/4	6	1-59/64	19.20	86136	1	4-1/4
4-5/16	III	5-3/4	3-1/4	6-1/4	1-59/64	22.00	86138	1	4-5/16
4-3/8	III	5-3/4	3-1/4	6-1/4	1-59/64	21.60	86140	1	4-3/8
4-7/16	III	5-3/4	3-1/4	6-1/4	1-59/64	21.00	86142	1	4-7/16
4-1/2	III	5-3/4	3-1/4	6-1/2	1-59/64	23.60	86144	1	4-1/2
4-5/8	III	6	3-1/4	6-1/2	1-59/64	23.60	86148	1	4-5/8
4-3/4	III	6	3-1/4	6-1/2	1-59/64	22.50	86152	1	4-3/4

Type	Item	Description	Wt. Each (lb)	Part Number	Std. Pkg. Qty.
Adaptor Universal		1-1/2" F x 1M	3.40	87A	1
		Max. length 8.25"	4.40	8140A	1
Extension		8" Extension	8.80	8108	1
		12" Extension	12.10	8112	1
		15" Extension	14.40	8115	1
Ret Ring®		Fits Part No. 87A - 8670	.01	M10020S	1
		Fits Part No. 8672 - 86152	.01	M10025S	1

Hammers

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Standard Ball Peen — G Series — Wood and Fiberglass Handles

Head Weight	Overall Length	Head Length	Bell Diameter	Face	Peen	Replacement Handle		Weight With Handle (lb)	Industrial Black Head Finish		Std. Pkg. Qty.	Head Weight
		A	B	C	D	Wood	Fiberglass Kit		Wood Handle	Fiberglass Handle		
2 oz	9-1/2	2-1/16	5/8	5/8	17/32	HH49	—	.25	101G	—	6	2 oz
4 oz	9-1/2	2-1/2	3/4	3/4	5/8	HH50	—	.37	102G	—	6	4 oz
8 oz	11-5/8	3-1/8	15/16	13/16	25/32	HH53	—	.66	103G	—	6	8 oz
12 oz	13-1/4	3-3/4	1-3/32	15/16	15/16	HH59	—	1.0	104G	—	6	12 oz
1 lb	14-1/4	4	1-5/32	63/64	1	HH59	HH105106FG	1.3	105G	105FG	6	1 lb
1-1/4 lb	14-1/2	4-3/16	1-9/32	1-1/8	1-3/64	HH59	HH105106FG	1.5	106G	106FG	6	1-1/4 lb
1-1/2 lb	14-3/4	4-9/16	1-21/64	1-9/64	1-1/8	HH66	HH107FG	1.8	107G	107FG	6	1-1/2 lb
2 lb	15-1/4	5	1-1/2	1-9/32	1-1/4	HH66	HH108FG	2.4	108G	108FG	4	2 lb
2-1/2 lb	16-1/4	5-7/16	1-21/32	1-27/64	1-23/64	HH69	HH109110FG	3.0	109G	109FG	4	2-1/2 lb
3 lb	16-1/4	5-7/8	1-23/32	1-15/32	1-15/32	HH71	HH109110FG	3.4	110G	110FG	4	3 lb

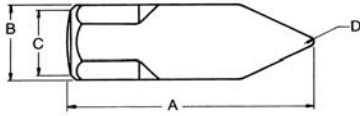


Utility Ball Peen — D Series

Head Weight	Overall Length	Head Length	Bell Diameter	Face	Peen	Replacement Handle	Weight With Handle (lb)	Shot Blasted Head Finish	Std. Pkg. Qty.	Head Weight
		A	B	C	D			Part Number		
8 oz	12	3-1/8	15/16	13/16	25/32	HH53	.66	63D	6	8 oz
12 oz	12	3-3/4	1-3/32	15/16	15/16	HH59	1.0	64D	6	12 oz
1 lb	14-1/4	4	1-5/32	63/64	1	HH59	1.3	65D	6	1 lb
1-1/4 lb	14-1/2	4-3/16	1-9/32	1-1/8	1-3/64	HH59	1.5	66D	6	1-1/4 lb
1-1/2 lb	14-3/4	4-9/16	1-21/64	1-9/64	1-1/8	HH66	1.8	67D	6	1-1/2 lb
2 lb	15-1/4	5	1-1/2	1-9/32	1-1/4	HH66	2.4	68D	4	2 lb
2-1/2 lb	16-1/4	5-7/16	1-21/32	1-27/64	1-23/64	HH69	3.0	69D	4	2-1/2 lb
3 lb	16-1/4	5-7/8	1-23/32	1-15/32	1-15/32	HH71	3.4	70D	4	3 lb
2-1/2 lb	16-1/4	5-7/16	1-21/32	1-27/64	1-23/64	HH69	3.0	109G	4	2-1/2 lb
3 lb	16-1/4	5-7/8	1-23/32	1-15/32	1-15/32	HH71	3.4	110G	4	3 lb

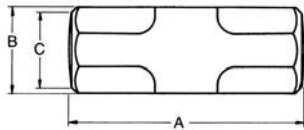
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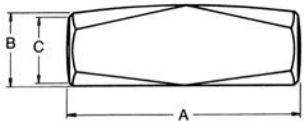
Cross Peen Engineer / Blacksmith Hand

Head Weight	Overall Length	Head Length	Bell Diameter	Face	Peen	Replacement Handle	Weight With Handle (lb)	Industrial Black Head Finish	Std. Pkg. Qty.	Head Weight
		A	B	C	D			Part Number		
2 lb	15-1/2	4-3/4	1-1/2	1-9/32	3/16R	HH45	2.7	121G	4	2 lb
2-1/2 lb	15-1/2	5-1/16	1-9/16	1-11/32	3/16R	HH45	3.2	122G	4	2-1/2 lb
3 lb	15-1/2	5-1/4	1-5/8	1-25/64	1/4R	HH45	3.7	123G	4	3 lb



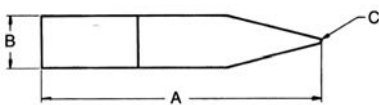
Double Faced Engineer's / Blacksmith

Head Weight	Overall Length	Head Length	Bell Diameter	Face	Replacement Handle	Weight With Handle (lb)	Industrial Black Head Finish	Std. Pkg. Qty.	Head Weight
		A	B	C			Part Number		
2 lb	15-1/2	4	1-1/2	1-9/32	HH45	2.7	141G	4	2 lb
2-1/2 lb	15-1/2	4-1/2	1-1/2	1-9/32	HH45	3.2	142G	4	2-1/2 lb
3 lb	15-1/2	5-1/16	1-9/16	1-11/32	HH45	3.7	143G	4	3 lb



Hand Drilling

Head Weight	Overall Length	Head Length	Bell Diameter	Face	Replacement Handle	Weight With Handle (lb)	Industrial Black Head Finish	Std. Pkg. Qty.	Head Weight
		A	B	C			Part Number		
2 lb	10-1/2	4-1/16	1-3/8	1-3/32	HH92	2.6	192G	4	2 lb
3 lb	10-1/2	4-3/8	1-1/2	1-9/32	HH92	3.6	193G	4	3 lb
4 lb	10-1/2	4-5/8	1-5/8	125/64	HH92	4.4	194G	4	4 lb



Scaling Hammer (Boiler Pick)

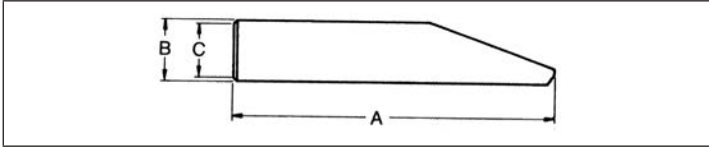
Head Weight	Overall Length	Head Length	Face Length	Face Radius	Replacement Handle	Weight With Handle (lb)	Industrial Black Head Finish	Std. Pkg. Qty.	Head Weight
		A	B	C			Part Number		
1 lb	14	5-9/16	1-1/32	1/16	HH59	1.4	132G	6	1 lb

Hammers

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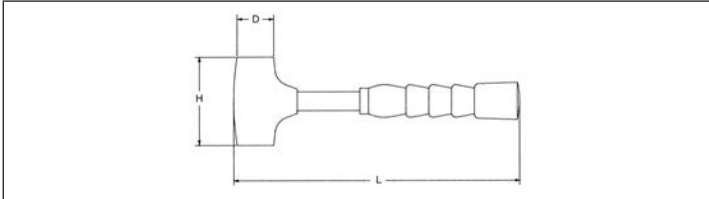
Setting Paneing Hammer

Head Weight	Overall Length	Head Length	Head Width	Face Width	Replacement Handle	Weight With Handle (lb)	Industrial Black Head Finish	Std. Pkg. Qty.	Head Weight
		A	B	C			Part Number		
12 oz	13-1/2	4-13/16	7/8	3/4	HH801	1.1	30G	6	12 oz
1 lb	13-1/2	5-1/16	15/16	13/16	HH801	1.4	31G	6	1 lb



Sledge Hammer

Head Weight	Head Length	Face Width	Handle Length	Replacement Handle	Weight With Handle (lb)	Industrial Black Head Finish	Std. Pkg. Qty.	Head Weight
						Part Number		
4 lb	5-1/4	1-13/16	32	HH418	4.3	S844SH	5	4 lb
6 lb	6	2-1/8	32	HH6810	7.1	S846H	5	6 lb
8 lb	6-1/2	2-1/4	32	HH6810	9.1	S848H	5	8 lb
10 lb	7	2-1/2	35	HH6810	11.1	S8410H	5	10 lb
12 lb	7-1/2	2-5/8	35	HH1216	13.2	S8412H	5	12 lb
16 lb	8-1/4	2-7/8	35	HH1216	17.2	S8416H	4	16 lb



Surface protective, non-marring and non-sparking brass head provides a lot of driving power in a compact hammer. Standard Super Grip (SG) requires less “squeeze” when swinging heavy hammer, reducing strain and fatigue. Ideal for use with heavy gloves.

Brass Hammers

Part Number	Approximate Head Weight	Std. Pkg. Qty.	Shipping Weight	Head Width	Head Length	Overall Length
				D	H	
HSB15	1.5 lb	5	2.01 lb	1/1.25	3.5	12
HSB25	2.5 lb	2	2.72 lb	1.25/1.5	3.5	12
HSB4	3.5 lb	2	3.85 lb	1.65/1.78	3.7	12



Dead Blow Hammers

Part Number	Approximate Head Weight	Std. Pkg. Qty.	Shipping Weight	Head Width	Head Length	Overall Length
				D	H	
HPD1	1.25 lb	5	1.85 lb	1.6/2.1	3.9	11
HPD2	1.5 lb	5	2.10 lb	2.05/2.4	4.3	12
HPD3	2.2 lb	2	2.71 lb	2.4/2.7	4.7	12
HPD4	2.9 lb	2	3.50 lb	2.75/3.1	5	13



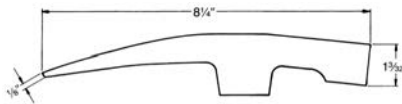
Shot loaded head produces the most complete dead blow effect (no rebound) ever offered for 30% more striking force than conventional hammers. Fiberglass handle and pliable Standard Super Grip combine with the dead blow effect to reduce effort, strain, vibration and noise.



Hammers

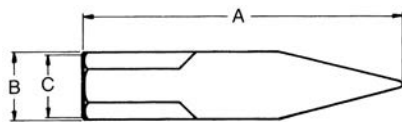
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Brick Hammer

Head Weight	Overall Length	Replacement Handle	Weight With Handle (lb)	Industrial Black Head Finish	Std. Pkg. Qty.	Head Weight
				Part Number		
1-1/2 lb	11	HH173FG	2.0	173	6	1-1/2 lb



Tinner's Riveting Hammer

Head Weight	Overall Length	Head Length	Head Width	Face Width	Replacement Handle	Weight With Handle (lb)	Industrial Black Head Finish	Std. Pkg. Qty.	Head Weight
		A	B	C			Part Number		
4 oz	9-1/4	3-11/16	9/16	15/32	HH50	.38	25G	6	4 oz
8 oz	11	4-1/4	3/4	21/32	HH53	.76	26G	6	8 oz
12 oz	13-1/2	4-3/4	29/32	25/32	HH801	1.1	27G	6	12 oz
1 lb	14	5-1/8	31/32	27/32	HH801	1.4	28G	6	1 lb

Hickory Hammer Handles

Part Number	Std. Pkg. Qty.	Approx. Length	Use For
HH42A18	12	18	165 Body Hammer
HH42B	12	12	All Body Hammers (Except 165 & 155)
HH42BN	12	12	Hickory Handle for all other Body Hammers - New
HH45	12	16	Cross Peen and Double Face Eng. and 155
HH49	12	9-3/4	2 oz. Ball Peen
HH50	12	10	4 oz. Ball Peen/4 oz. Riveting
HH53	12	12	8 oz. Ball Peen/8 oz. Riveting
HH59	12	14-1/2	12 oz. Ball Peen
HH59	12	14-1/2	1 lb, 1-1/4 lb Ball Peen
HH66	12	16	1-1/2, 2 lb Ball Peen
HH69	12	17	2-1/2 lb Ball Peen
HH71	12	17	3 lb Ball Peen
HH92	12	10-1/2	All Hand Drilling
HH801	12	13-3/4	12 & 16 oz. Riveting and Settling
HH418	12	32	4 lb Sledge
HH6810	12	33	6, 8 & 10 lb Sledge
HH1216	12	35	12 & 16 lb Sledge



Fiberglass Replacement Handle Kits

Part Number	Std. Pkg. Qty.	Approx. Length	Use For
HH105106FG	1	13	1 lb and 1-1/4 lb Ball Peen — G Series
HH107FG	1	14	1-1/2 lb Ball Peen — G Series
HH108FG	1	16	2 lb Ball Peen — G Series
HH109110FG	1	16	2-1/2 lb and 3 lb Ball Peen — G Series
HH173FG	1	12-1/2	1-1/2 lb Brick Hammer
HHBFFG	1	12	All Body Hammers with 12" Handle



Screwdrivers



- Ergonomically & Accurately Sized Cellulose Acetate Handles.
- Rugged, Impact and Chemical Resistant.
- Color Coded Inlays for Easy Identification.
- Forged Nickel-Chrome Molybdenum Alloy Blades.
- Serrated Faces to Resist Slipping.
- Bright Zinc Plate to Resist Corrosion.
- All drivers meet or exceed ANSI/ASME standards and specifications for hardness and torque

WARNING: Acetate handles are not intended to act as insulation. Never use screwdrivers as prybars or chisels.

Cabinet and Electrical Screwdrivers

Blade Length	Blade Width	Type	Weight Each (lb)	Part No.	Std. Pkg. Qty.
4	3/16	Cabinet	.14	SDE4-1	6
6	3/16	Electrical	.15	SDE6-1	6
8	3/16	Electrical	.16	SDE8-1	6



NARROW TIP, ROUND SHANK

Mechanic's and Heavy-Duty Screwdrivers

Blade Length	Blade Width	Type	Weight Each (lb)	Part No.	Head Length
4	1/4	Mechanic's	.20	SDR4-1	6
6	5/16	Heavy-Duty	.30	SDR6-1	6
8	3/8	Heavy-Duty	.49	SDR8-1	6



WIDENED TIP, ROUND SHANK

Phillips Screwdrivers

Blade Length	Blade Width	Type	Weight Each (lb)	Part No.	Head Length
3	No. 1	Phillips	.13	SDP3-1	6
4	No. 2	Phillips	.20	SDP4-1	6
6	No. 3	Phillips	.30	SDP6-1	6



PRECISION HEAD, ROUND SHANK

Square-Blade Screwdrivers

Blade Length	Blade Width	Type	Weight Each (lb)	Part No.	Head Length
4	1/4	Square	.21	SDS4-1	6
6	5/16	Square	.34	SDS6-1	6
8	3/8	Square	.55	SDS8-1	6
10	3/8	Square	.62	SDS10-1	6
12	3/8	Square	.70	SDS12-1	6



STURDY TIP, SQUARE SHANK

Stubby Screwdrivers

Blade Length	Blade Width	Type	Weight Each (lb)	Part No.	Head Length
1-1/2	1/4	Stubby	.10	SDS1-1	6
1-1/2	No. 2	Phillips	.10	SDP1-1	6



TIGHT CLEARANCE, STURDY



SD10K



SDR7K-1



SDR5K-1



SDP4K-1



SDR4K-1



SDS3K-1

SDR4K-1 4pc Screwdriver Combo Set		
SDR4-1	Mechanics, 4"	1/4 Rd-C x 4"
SDE4-1	Electrical, 4"	3/16 Rd-C x 4"
SDP3-1	#1 Phillips, 3"	P1 x 3"
SDP4-1	#2 Phillips, 4"	P2 x 4"
P696	Pouch	

SDS3K-1 HD Screwdriver Set		
SDR4-1	Mechanics, 4"	1/4 Rd-C x 4"
SDE4-1	Electrical, 4"	3/16 Rd-C x 4"
SDP3-1	#1 Phillips, 3"	P1 x 3"
SDP4-1	#2 Phillips, 4"	P2 x 4"
P696	Pouch	

SDR5K-1 5pc Screwdriver Combo Set		
SDR4-1	Mechanics, 4"	1/4 Rd-C x 4"
SDE4-1	Electrical, 4"	3/16 Rd-C x 4"
SDR6-1	Mechanics, 6"	5/16 Rd-C x 6"
SDR8-1	Mechanics, 8"	3/8 Rd-K x 8"
SDS1-1	Mechanics, 1-1/2"	1/4 Sq-K x 1.5"
P696	Pouch	

SD10K 10pc Screwdriver Combo Set		
SDE4-1	Electrical, 4"	3/16 Rd-C x 4"
SDE6-1	Electrical, 6"	3/16 Rd-C x 6"
SDR4-1	Mechanics, 4"	1/4 Rd-C x 4"
SDR6-1	Mechanics, 6"	5/16 Rd-C x 6"
SDS1-1	Mechanics, 1-1/2"	1/4 Sq-K x 1.5"
SDS8-1	SQ-Blade, 8"	3/8 Sq-K x 8"
SDP1-1	#2 Phillips, 1-1/2"	P2 x 1.5"
SDP3-1	#1 Phillips, 3"	P1 x 3"
SDP4-1	#2 Phillips, 4"	P2 x 4"
SDP6-1	#3 Phillips, 6"	P3 x 6"

SDR7K-1 7pc Screwdriver Combo Set		
SDE4-1	Electrical, 4"	3/16 Rd-C x 4"
SDE6-1	Electrical, 6"	3/16 Rd-C x 6"
SDP3-1	#1 Phillips, 3"	P1 x 3"
SDP4-1	#2 Phillips, 4"	P2 x 4"
SDP6-1	#3 Phillips, 6"	P3 x 6"
SDR4-1	Mechanics, 4"	1/4 Rd-C x 4"
SDR6-1	Mechanics, 6"	5/16 Rd-C x 6"
P496	Pouch	

SDP4K-1 4pc Phillip Set		
SDP1-1	#2 Phillips, 1-1/2"	P2 x 1.5"
SDP3-1	#1 Phillips, 3"	P1 x 3"
SDP4-1	#2 Phillips, 4"	P2 x 4"
SDP6-1	#3 Phillips, 6"	P3 x 6"
P696	Pouch	

Heavy-Duty Gasket Scrapers Chisel and Punch Sets



Martin's patented two composite ergonomically designed handle provides maximum comfort and secure grip. Capped end in direct contact with the shaft allows the user to strike the tool without handle damage. Blade extends throughout the handle. Hardened and tempered the entire length for maximum durability

Set contains 1/2" x 10"; 3/4" x 10"; 1" x 10"; 1-1/2" x 10".

- Cleaning gasket material, adhesives and all general scraping in automotive and engineering applications.
- Used for scraping carbon from cylinder heads, pistons and other metal surfaces.

GS4K Gasket Scraper Set 4 Pc. Heavy-Duty Gasket Scraper Set		Wt. 2.5 lb
GS50	1/2" x 10" Long Gasket Scraper	<ul style="list-style-type: none"> • USA Alloy Steel • Heavy-Duty 3/88 Shank
GS75	3/4" x 10" Long Gasket Scraper	
GS100	1" x 10" Long Gasket Scraper	
GS150	1-1/2" x 10" Long Gasket Scraper	
P696	Pouch	

Part Number	Item	Size	Weight	Std. Pkg. Qty.
GS50		1/2" x 10"	.57	6
GS75		3/4" x 10"	.57	6
GS100		1" x 10"	.58	6
GS150		1-1/2" x 10"	.59	6

Chisel Sets

CC6K 6 Pieces		
C8	1/4" Cold Chisel	
C10	5/16" Cold Chisel	
C12	3/8" Cold Chisel	
C16	1/2" Cold Chisel	
C20	5/8" Cold Chisel	
C24	3/4" Cold Chisel	
C66	Kit Bag	

WARNING: Acetate handles are not intended to act as insulation. Never use screwdrivers as prybars or chisels.

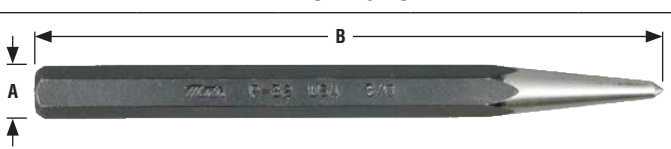

Punch Sets

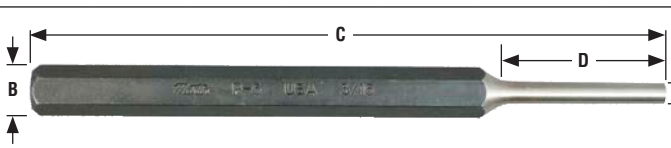
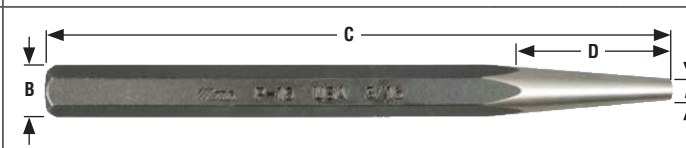
PP7K 7 PIECES			LP7K 7 PIECES		
P2	1/16" Pin Punch		P23	3/32" Lg. Taper	
P3	3/32" Pin Punch		P24	1/8" Lg. Taper	
P4	1/8" Pin Punch		P25	5/32" Lg. Taper	
P5	5/32" Pin Punch		P26	3/16" Lg. Taper	
P6	3/16" Pin Punch		P26A	7/32" Lg. Taper	
P8	1/4" Pin Punch		P27	1/4" Lg. Taper	
P10	5/16" Pin Punch		P28	5/16" Lg. Taper	
C70	Kit Bag		C187	Kit Bag	

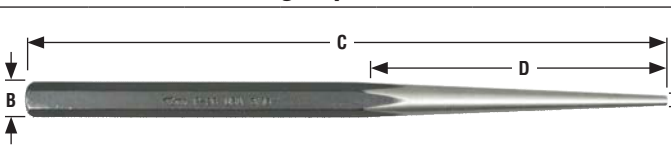
Combination Chisel & Punch Sets

PC6K 6 PIECES			PC14K 14 PIECES				
C16	1/2" Cold Chisel		C42	1/4" Cape Chisel		P24	1/8" Drift Punch
C24	3/4" Cold Chisel		C16	1/2" Cold Chisel		P25	5/32" Lg. Taper Punch
P42	1/2" Center Punch		C20	5/8" Cold Chisel		P6	3/16" Pin Punch
P4	1/8" Pin Punch		C24	3/4" Cold Chisel		P8	1/4" Pin Punch
P6	3/16" Pin Punch		C28	7/8" Cold Chisel		P14	1/8" Solid Punch
P16	3/16" Solid Punch		C60	1/4" Diamond Pt. Chisel		P18	1/4" Solid Punch
C66	Kit Bag	C72	1/4" Hlf. Rd. Nose Chisel	C14		Kit Bag	
		P40	3/8" Center Punch				

WARNING: "ALWAYS WEAR SAFETY GOGGLES"

Prick Punch					Center Punch					
										
Stock Size	Length	Weight Each	Industrial Black	Std.	Point Size	Stock Size	Length	Weight	Industrial Black	Std.
A	B	(lb)	Part Number	Pkg. Qty.	A	B	C	Each (lb)	Part Number	Pkg. Qty.
1/4	4-1/2	.06	P30	12	3/32	1/4	3 1/2	.06	P38	12
3/8	5	.14	P32	12	5/32	5/16	4 1/4	.08	P39	12
1/2	6	.27	P33	12	3/16	3/8	5	.15	P40	12
					1/4	1/2	6	.30	P42	12
					3/8	5/8	6 1/4	.25	P43	6

Pin Punch							Solid Punch						
													
Point Size	Stock Size	Length	Pin Length	Weight Each	Industrial Black	Std.	Point Size	Stock Size	Length	Taper Length	Weight Each	Industrial Black	Std.
A	B	C	D	(lb)	Part Number	Pkg. Qty.	A	B	C	D	(lb)	Part Number	Pkg. Qty.
1/16	1/4	4	3/4	.05	P2	12	1/16	5/16	5	1-1/2	.16	P12	12
3/32	5/16	4-1/2	7/8	.12	P3	12	3/32	5/16	5	1-3/4	.16	P13	12
1/8	5/16	4-3/4	1	.12	P4	12	1/8	3/8	5	1-3/4	.16	P14	12
5/32	5/16	5	1	.12	P5	12	5/32	3/8	5	1-3/4	.16	P15	12
3/16	3/8	5-1/4	1-1/4	.17	P6	12	3/16	3/8	5	1-1/2	.16	P16	12
7/32	3/8	5-1/2	1-1/4	.18	P7	12	7/32	3/8	5	1-1/2	.16	P17	12
1/4	3/8	5-3/4	1-1/4	.29	P8	12	1/4	3/8	6	1-1/2	.16	P18	12
5/16	1/2	6	1-1/4	.33	P10	12	5/16	1/2	6	2	.31	P19	12

Long Taper Punch						
						
Point Size	Stock Size	Length	Taper Length	Weight Each	Industrial Black	Std.
A	B	C	D	(lb)	Part Number	Pkg. Qty.
3/32	5/16	8	3-1/2	.12	P23	12
1/8	5/16	8	3-1/2	.16	P24	12
5/32	3/8	9	4-1/4	.25	P25	12
3/16	1/2	10	6-1/2	.45	P26	12
7/32	1/2	10	6-1/2	.45	P26A	12
1/4	5/8	12	7-1/4	.88	P27	6
5/16	5/8	12	7-1/4	.94	P28	6
1/4	3/4	15	7-1/4	1.66	P28A	6
5/16	5/8	16	9-1/2	1.33	P29	6
3/8	3/4	15	8	1.66	P34	6

Chisels



WARNING: "ALWAYS WEAR SAFETY GOGGLES"

Cold Chisel						Long Cold Chisel					
Cut Width	Stock Size	Length	Weight Each (lb)	Industrial Black Part Number	Std. Pkg. Qty.	Cut Width	Stock Size	Length	Weight Each (lb)	Industrial Black Part Number	Std. Pkg. Qty.
A	B	C				A	B	C			
1/4	1/4	5	.07	C8	12	3/4	5/8	12	1.13	C120	6
5/16	1/4	5	.08	C10	12	5/8	1/2	12	.70	C124	12
3/8	5/16	5-1/2	.13	C12	12	3/4	5/8	18	1.67	C126	3
1/2	7/16	6	.26	C16	12	7/8	3/4	12	1.50	C129	6
5/8	1/2	6-1/2	.37	C20	12	1	3/4	12	1.50	C132	6
3/4	5/8	7	.62	C24	12	1	3/4	18	2.33	C133	3
7/8	3/4	7-1/2	.93	C28	6						
1	7/8	8	1.34	C32	6						

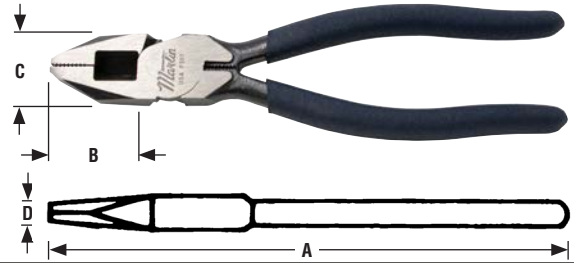
Cape Chisel						Hard Round Chisel					
Cut Width	Stock Size	Length	Weight Each (lb)	Industrial Black Part Number	Std. Pkg. Qty.	Cut Width	Stock Size	Length	Weight Each (lb)	Industrial Black Part Number	Std. Pkg. Qty.
A	B	C				A	B	C			
1/8	5/16	5-1/2	.10	C39	12	3/16	3/8	5-1/2	.16	C71	12
3/16	3/8	5-1/2	.16	C40	12	1/4	3/8	5-1/2	.29	C72	12
1/4	3/8	5-1/2	.29	C42	12	3/8	-	5-1/2	-	C74	12
3/8	-	-	-	C46	12						

Diamond Point Chisel					
Point Size	Stock Size	Length	Weight Each (lb)	Industrial Black Part Number	Std. Pkg. Qty.
A	B	C			
1/8	5/16	5	.10	C58	12
3/16	3/8	5-1/2	.18	C59	12
1/4	3/8	5-3/4	.18	C60	12
3/8	5/8	7	.58	C62	6

Lineman's Pliers

Overall Length	Jaw Length	Jaw Width	Jaw Thickness	Weight Each (lb)	Part Number	Std. Pkg. Qty.
A	B	C	D			
8-1/2	1-1/2	1-1/4	9/16	1.00	P308	6

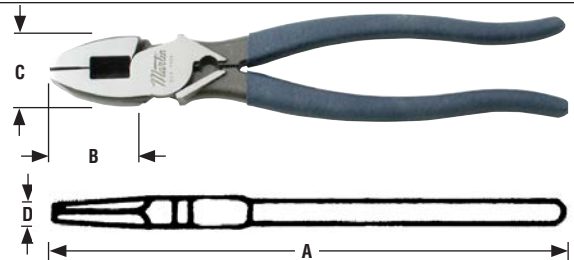
High leverage electrician's general use pliers feature beveled nose, serrated crush area and comfort grip handles.



New England Pattern Lineman's Pliers

Overall Length	Jaw Length	Jaw Width	Jaw Thickness	Weight Each (lb)	Part Number	Std. Pkg. Qty.
A	B	C	D			
9-1/2	1-1/2	1-5/16	5/8	1.04	P309	6

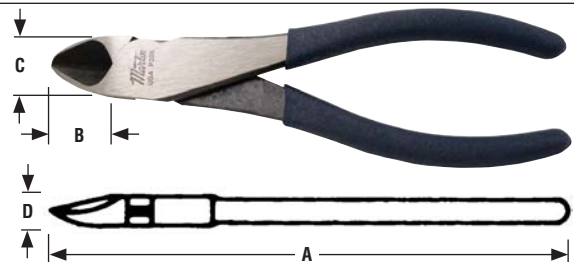
Heavy-duty, high leverage design features built in connector crimper, fishtape puller, serrated crush area and comfort grips.



Diagonal Cutting Pliers

Overall Length	Jaw Length	Jaw Width	Jaw Thickness	Weight Each (lb)	Part Number	Std. Pkg. Qty.
A	B	C	D			
6-1/4	7/8	25/32	7/16	0.38	P206	6
7-3/8	1	7/8	7/16	0.52	P2075	6

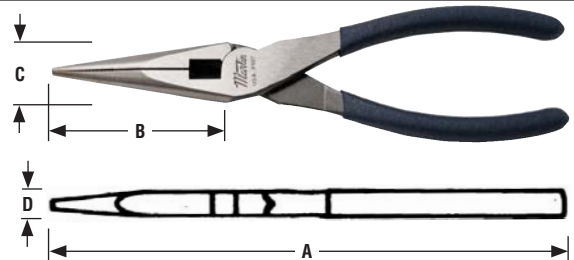
High leverage comfort grip handles decrease fatigue for easy cutting.



Long Chain Nose Side Cutting Pliers

Overall Length	Jaw Length	Jaw Width	Jaw Thickness	Weight Each (lb)	Part Number	Std. Pkg. Qty.
A	B	C	D			
6-1/4	2	7/8	13/32	0.32	P506	6
7-7/8	2-5/8	1	7/16	0.49	P507	6

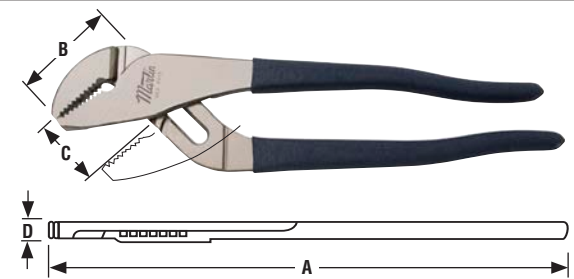
High leverage comfort grip handles for powerful gripping and cutting.



Tongue and Groove Pliers

Overall Length	Jaw Length	Jaw Width	Jaw Thickness	Weight Each (lb)	Part Number	Std. Pkg. Qty.
A	B	C	D			
7	13/16	13/16	3/8	0.42	P407	6
9-3/4	1-1/4	1-1/2	7/16	0.92	P510	6
12-7/8	1-11/16	2-3/4	1/2	1.76	P71275	6

Flush Rivet design allows close access to work surfaces and tight areas, undercut adjustment grooves for non-slip grip and comfort grip handles.



Combination Slip Joint Pliers

Overall Length	Jaw Length	Jaw Width	Jaw Thickness	Weight Each (lb)	Part Number	Std. Pkg. Qty.
A	B	C	D			
6-3/4	1-13/16	1-1/4	13/32	0.48	P2065	6
8-1/4	2	1-11/32	7/16	0.60	P208	6
10	2-3/8	1-1/2	15/32	0.98	P210	6

Flush rivet design offers three working surfaces, two jaw openings, wire cutter and comfort grips.



Pliers Sets



PL3K

3 PC. GENERAL PURPOSE PLIERS SET

P506	6-1/4" Long Chain Nose Side Cutting
P2065	6-3/4" Combination Slip Joint
P510	9-3/4" Tongue and Groove
P1796	Pouch



PL4K

4 PC. GENERAL PURPOSE PLIERS SET

P507	7-7/8" Long Chain Nose Side Cutting
P510	9-3/4" Tongue and Groove
P208	8" Combination Slip Joint
P2075	7-3/8" Diagonal Cutting
P1996	Pouch



PL3KSJ

3 PC. COMBINATION SLIP-JOINT PLIERS SET

P2065	6-3/4" Combination Slip Joint
P208	8-1/4" Combination Slip Joint
P210	10" Combination Slip Joint
P1896	Pouch



PL3KTG

3 PC. TONGUE AND GROOVE PLIERS SET

P407	7" Tongue and Groove
P510	9-3/4" Tongue and Groove
P71275	12-7/8" Tongue and Groove
P2096	Pouch





One Tool Does it All!

Martin's patented retaining ring pliers are capable of servicing both internal and external retaining rings. *Martin's* pliers offer superior performance with unique features:

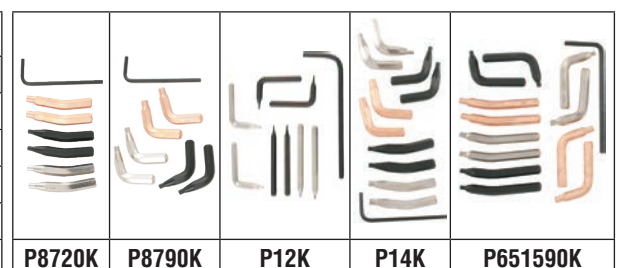
- Reverse on the fly — Switch from Internal to External with one hand.
- Patented Jaws provide positive tip retention and alignment.
- P1421 features an adjustable stop for small rings.
- P75 features an automatic ratchet lock that keeps rings locked open or closed. Ideal for large rings up to 4".

Snap Ring Pliers					
Part Number	Description	Internal	External	Weight Each (lb)	Std. Pkg. Qty.
P1421	Quick Switch Retaining Ring Pliers with adjustable stop	1/4" - 1" 6mm - 26mm	1/8" - 1" 3mm - 26mm	0.3	6
Includes 5 pairs of color-coded interchangeable tips and Allen wrench in handy pouch. Tip sizes: Straight- .023", .036", .047" (0.6mm, 0.9mm, 1.2mm) Bent 90° - .036", .047" (0.9mm, 1.2mm)					
P1434	Quick Switch Retaining Ring Pliers	3/8" - 2" 10mm - 51mm	1/4" - 2" 7mm - 51mm	0.6	6
Includes 5 pairs of color-coded interchangeable tips and Allen wrench in handy pouch. Tip sizes: Straight- .036", .047", .070" (0.9mm, 1.2mm, 1.8mm) Bent 90° - .036", .047" (0.9mm, 1.2mm)					
P75	Quick Switch Ratcheting Plier	1-13/16" - 4" 46mm - 102mm	1-1/2" - 4" 32mm - 102mm	1.18	6
Includes 6 pairs of color-coded interchangeable tips and Allen wrench in handy pouch. Tip sizes: Bent 15° - .090", 1.08", .120" (2.3mm, 2.7mm, 3.0mm) Bent 90° - .090", .108", .120" (2.3mm, 2.7mm, 3.0mm).					
P87	Retaining Ring Tool	3-1/2" - 7" 90mm - 175mm	3-1/2" - 7" 90mm - 175mm	3.05	6
Includes 6 pairs of color-coded interchangeable tips and Allen wrench in handy pouch. Tip sizes: Bent 20° - .120", .150", .180" (3.0mm, 3.8mm, 4.6mm) Bent 90° - .120", .150", .180" (3.0mm, 2.8mm, 4.6mm).					



Snap Ring Plier Sets			
Part Number	Description	Weight Each (lb)	Std. Pkg. Qty.
PL1450K	2 Piece Snap Ring Plier Set w/ Molded Foam Tray. Includes P1421 & P1434.	1.20	1
PL1465K	3 Piece Snap Ring Plier Set w/ Plastic Box. Includes P1421, P1434 & P75.	3.50	1

Tip Kits			
Part Number	Description	Contents	Wt.
P12K	Tip Kit for P1221 & P1421	5 Tips & Allen Wrench in a Pouch	0.04
P14K	Tip Kit for P1234 & PP1434	5 Tips & Allen Wrench in a Pouch	0.04
P651590K	Tip Kit for P65 & P75	5 Tips & Allen Wrench in a Pouch	0.12
P8720K	Tip Kit 20° for P87	3-20° Tips & Allen Wrench in a Pouch	0.12
P8790K	Tip Kit 90° for P87	3-90° Tips & Allen Wrench in a Pouch	0.12



Crank Handles



Finished Crank Handles

**Square Broached Openings,
with Counterbore in Free End of Hub.**
**Special Bends, Offsets,
and Broached Openings Also Available.**

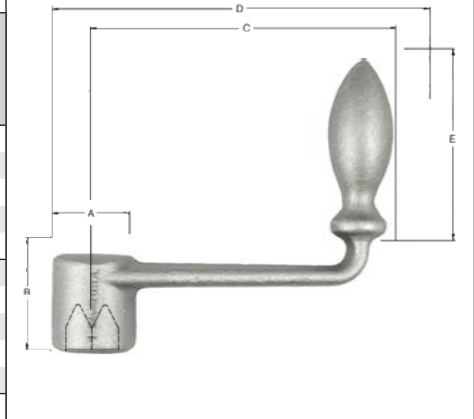
Stock Square Bore	Hub		Length		Height Handle Above Arm	Weight Each (lb)	Part Number		Std. Pkg. Qty
	Diameter	Length	Center Hub to Center Handle	Overall			Black Powder Coat Finish	Natural Finish	
	A	B	C	D	E				
1/2	1	1-1/4	1-3/4	2-5/8	2-3/8	.46	CH00BC	CH00B	1
1/2	1	1-1/4	2-1/4	3-1/8	2-1/2	.53	CH0BC	CH0B	1
9/16	1-1/4	1-1/2	3	4-1/16	2-3/4	.83	CH1BC	CH1B	1
1/2	1-1/16	1-5/16	3-1/2	4-1/2	3	.74	CH2BC	CH2B	1
9/16	1-1/4	1-3/8	4	5-1/8	3-1/8	1.0	CH4BC	CH4B	1
5/8	1-1/4	1-13/16	5	6-1/8	3-1/8	1.3	CH6BC	CH6B	1
11/16	1-1/4	2	6	7-1/8	3-1/8	1.4	CH8BC	CH8B	1
3/4	1-3/8	2-1/16	7	8-1/4	3-3/8	1.6	CH10BC	CH10B	1
7/8	1-9/16	2-7/16	8	9-3/8	3-5/8	2.3	CH12BC	CH12B	1
7/8	1-1/2	2-1/2	9-1/8	10-1/2	3-3/4	2.7	CH14BC	CH14B	1
1	1-3/4	3	10	11-1/2	4	3.6	CH16BC	CH16B	1



Unfinished Crank Handles

**Unfinished Cranks are Plain Forgings
Without a Hole in the Hub.**

Stock Square Bore	Hub		Length		Height Handle Above Arm	Weight Each (lb)	Part Number		Std. Pkg. Qty
	Diameter	Length	Center Hub to Center Handle	Overall			Natural Finish		
	A	B	C	D	E				
5/8	1	1-1/4	1-3/4	2-5/8	2-3/8	.46	CH00U		1
5/8	1	1-1/4	2-1/4	3-1/8	2-1/2	.53	CH0U		1
13/16	1-1/4	1-1/2	3	4-1/16	2-3/4	.83	CH1U		1
5/8	1-1/16	1-5/16	3-1/2	4-1/2	3	.74	CH2U		1
13/16	1-1/4	1-3/8	4	5-1/8	3-1/8	1.0	CH4U		1
13/16	1-1/4	1-13/16	5	6-1/8	3-1/8	1.3	CH6U		1
13/16	1-1/4	2	6	7-1/8	3-1/8	1.4	CH8U		1
7/8	1-3/8	2-1/16	7	8-1/4	3-3/8	1.6	CH10U		1
1	1-9/16	2-7/16	8	9-3/8	3-5/8	2.3	CH12U		1
1	1-1/2	2-1/2	9-1/8	10-1/2	3-3/4	2.7	CH14U		1
1-1/8	1-3/4	3	10	11-1/2	4	3.6	CH16U		1



Eyebolts Plain Pattern

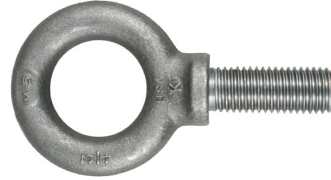


WARNING
Rated capacity is substantially reduced when loading at any angle. Loading must never be made at an angle greater than 45° from bolt centerline. At an angle of 45° rated capacity is reduced to 1/4 of shown rating.

Shot Blasted Finish Meets ANSI B18.15-1985

Bolt			Eye Diameter		Rated Capacity	Wt. Ea. (lb)	Part Number	Std. Pkg. Qty.
Width	Threads per Inch	Length	Inside	Outside				
1/4	20	1	3/4	1-3/16	500	.06	EB1	1
5/16	18	1-1/8	7/8	1-7/16	900	.10	EB2	1
3/8	16	1-1/4	1	1-11/16	1300	.15	EB3	1
7/16	14	1-3/8	1-1/16	1-13/16	1800	.21	EB4	1
1/2	13	1-1/2	1-3/16	2-1/8	2400	.30	EB5	1
9/16	12	1-3/4	1-1/4	2-1/4	3000	.55	EB6	1
5/8	11	1-3/4	1-3/8	2-9/16	4000	.61	EB7	1
3/4	10	2	1-1/2	2-13/16	5000	.98	EB8	1
7/8	9	2-1/4	1-5/8	3-3/16	7000	1.53	EB9	1
1	8	2-1/2	1-3/4	3-9/16	9000	2.06	EB10	1
1-1/8	7	2-3/4	2	4	12000	2.90	EB11	1
1-1/4	7	3	2-3/16	4-7/16	15000	4.11	EB12	1
1-1/2	6	3-1/2	2-1/2	5-3/16	21000	6.73	EB14	1

Eyebolts Shoulder Pattern



WARNING
Rated capacity is substantially reduced when loading at any angle. Loading must never be made at an angle greater than 45° from bolt centerline. At an angle of 45° rated capacity is reduced to 1/4 of shown rating.

Shot Blasted Finish Meets ANSI B18.15-1985

Bolt			Eye Diameter		Shoulder Width	Rated Capacity	Wt. Ea. (lb)	Part Number	Std. Pkg. Qty.
Width	Threads per Inch	Length	Inside	Outside					
1/4	20	1	3/4	1-3/16	11/16	500	.06	EB21	1
5/16	18	1-1/8	7/8	1-7/16	7/8	900	.11	EB22	1
3/8	16	1-1/4	1	1-11/16	1-1/16	1300	.18	EB23	1
7/16	14	1-3/8	1-1/16	1-13/16	1-3/16	1800	.23	EB24	1
1/2	13	1-1/2	1-3/16	2-1/8	1-5/16	2400	.35	EB25	1
9/16	12	1-5/8	1-1/4	2-1/4	1-1/2	3000	.47	EB26	1
5/8	11	1-3/4	1-3/8	2-9/16	1-19/32	4000	.70	EB27	1
3/4	10	2	1-1/2	2-13/16	1-23/32	5000	1.10	EB28	1
7/8	9	2-1/4	1-11/16	3-3/16	2-1/32	7000	1.70	EB29	1
1	8	2-1/2	1-13/16	3-9/16	2-7/32	9000	2.36	EB30	1
1-1/8	7	2-3/4	2	4-1/16	2-19/32	12000	3.41	EB31	1
1-1/4	7	3	2-3/16	4-7/16	2-27/32	15000	4.68	EB32	1
1-1/2	6	3-1/2	2-1/2	5-3/16	3-3/16	21000	7.77	EB34	1

Pinch or Pry Bar



Size	Length	Weight Each (lb)	Part Number		Std. Pkg. Qty.
			Bright Zinc	Industrial Black	
5/8	16	1.3	196C	196	1
3/4	24	3.0	197C	197	1
7/8	30	5.25	198C	198	1
7/8	42	7.10	-	199	1

Die Bar — Pry Bar



Size	Length	Weight Each (lb)	Part Number		Std. Pkg. Qty.
			Bright Zinc	Industrial Black	
1/2	12	.70	192C	-	1
1/2	15	.87	193C	193	1
5/8	18	1.6	194C	194	1

WARNING:
Never substitute a pry bar with a screwdriver.
"ALWAYS WEAR SAFETY GOGGLES"

Eyebolts Shoulder Pattern — Metric (MM)

Bolt			Eye Diameter		Rated Capacity	Part Number
Width	Threads	Length	Inside	Outside		
8	M8 x 1.25	31.7	25	4	1110	EB8M
10	M10 x 1.50	35	27	46	1628	EB10M
12	M12 x 1.75	38	30	54	2266	EB12M
14	M14 x 2.00	41.1	33	58	3520	EB14M
16	M16 x 2.00	44.5	35	65	3520	EB16M
18	M18 x 2.50	51	38	71.5	4708	EB18M
20	M20 x 2.50	57	41	81	6292	EB20M
22	M22 x 2.50	63.5	46	90.4	6292	EB22M
24	M24 x 3.00	63.5	46	90.4	8470	EB24M
27	M27 x 3.00	70	51	103	11440	EB27M

Extra Deep Throat Clamp



Extra Deep Throat
Copper Plated Fatigue
Proof Spindles,
Permanent Type Pads

Inch Capacity	Throat Depth	Spindle Diameter	Minimum Proof Test	Weight Each (lb)	Part Number	Std. Pkg. Qty.
0-2	2	1/2	3500 lb	1.4	CC402	1
0-3	2-3/8	1/2	3500 lb	2.2	CC403	1
0-4	2-3/4	3/4	6500 lb	3.4	CC404	1
0-6	3-5/8	3/4	6900 lb	5.0	CC406	1
0-8	4-1/2	3/4	6900 lb	7.8	CC408	1
0-10	5-3/8	3/4	8000 lb	11.0	CC410	1
0-12	5-3/4	7/8	9500 lb	15.8	CC412	1

Tool Boxes & Kit Bags



Kit Bags



Number of Pouches	Length	Height	Weight	Part Number
14	22-5/8	15-1/8	.35	C14
5	19-1/2	40-1/4	.83	C55
6	15-5/8	21-1/4	.34	C60B
6	8	12-3/8	.12	C66
7	13-1/2	11-1/8	.18	C70
8	19-3/4	19-1/2	.39	C81
9	17-1/2	15	.28	C90
11	25-1/2	23-7/8	.61	C110
11	24-1/2	17-5/8	.43	C111
14	29-1/2	30-1/8	.84	C140
15	28	29-3/4	.84	C150
18	34-1/2	24-1/4	.89	C180
5	9-3/4	15-1/2	.17	C185
7	13-5/8	16-1/2	.24	C187
1	8-1/8	21-5/16	.04	C591
1	5-5/8	2-3/4	.03	C691
1	4-3/8	2-3/16	.02	C791

Socket Boxes



Width	Depth	Height	Weight	Part Number
9-1/2	3-3/4	1-1/2	1.24	93
16-13/16	3-3/4	1-1/2	2.00	94
18-1/4	3-3/4	2	2.39	95
25-1/2	5-1/4	3	6.24	96A
14-1/4	4-3/4	2	1.88	98
19-1/4	5-11/16	2	3.36	99
26-1/4	8-3/16	3-3/8	15.15	237
31	11-1/2	4-3/8	21.50	299

Tool Boxes




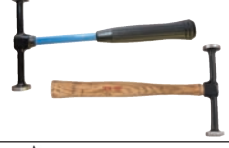









Width	Depth	Height	Weight	Part Number
16	7	7-1/2	5.10	BX18
19-7/64	7	7-1/2	7.00	BX21
26-7/64	12-7/64	15	51.00	BX26

Clip Rails















Length	Color	Drive	Weight	Part Number
8"	Blue	–	–	208B
8"	Red	–	–	208R
13"	Blue	–	–	213B
13"	Red	–	–	213R
18"	Blue	–	–	218B
18"	Red	–	–	218R
–	Black	3/8"	–	238T
–	Black	1/2"	–	212T
–	Black	3/4"	–	234T












Only *Martin* Provides This Added Warranty —
If a Hammer Head Should Loosen at Any Time,
Return It for Handle Replacement or a New Hammer.

Type	Description	Part Number		Std. Pkg. Qty.
		Wood handle	Fiberglass Handle	
DINGING HAMMER 	For fender and high-crowned panel dinging or bumping. Both high and low-crown faces for "on or off dolly" work. Faces, 1-1/4" and 1-9/16". Round heads, 6" overall. Weight 1.04 lb	150G	150FG	6
DINGING HAMMER 	For light dinging and long reach. Square face permits dinging close to moulding or beading. Faces, 1-1/4" round, 1-1/16" square head 6" overall. Weight .85 lb	151G	151FG	6
CROSS CHISEL HAMMER 	Excellent for finishing. Cross peen used for working in sharp corners around mouldings and for caulking. Round face — 1-9/16" diameter. Chisel — 3" long. Weight .87 lb	153G	153FG	6
CURVED CROSS CHISEL HAMMER 	Excellent for finishing. Cross peen used for working in sharp corners around mouldings and for caulking. Well balanced curved chisel for work in close places. Round face — 1-9/16" diameter. Chisel — 3" long. Weight .85 lb	153GB	153FGB	6
CROSS CHISEL SHRINKING HAMMER 	Cross grooved. Extra wide faces are cross grooved and used for shrinkage on large surfaces — chisel end used on sharp corners. Flat round face — 1-9/16" diameter. Chisel — 3" long. Weight .87 lb	153S	153SFG	6
VERTICAL CHISEL HAMMER 	Excellent for finishing. Cross peen used for working in sharp corners around mouldings and for caulking. Vertical chisel end used on sharp corners. Round face — 1-1/2" diameter. 5/8" Chisel — 5-1/2" long. Weight .85 lb	—	154FG	6
VERTICAL CHISEL SHRINKING HAMMER 	Cross grooved. Extra wide faces are cross grooved and used for shrinkage on large surfaces — vertical chisel end used on sharp corners. Round face — 1-1/2" diameter. Chisel — 5-1/2" long. Weight .87 lb	—	154SFG	6
FENDER BUMPER 	For bumping where hand and dolly cannot reach. Ample clearance for obstructions. Also used as a caulking iron. Length of head, 8-3/4". Weight 2.8 lb	155G	155FG	4
PICK HAMMER 	Long-reach, thin point for low spot on low-crown panels. Reaches over inner obstructions. One high-crown face. Face, 1-1/4" round point, 1/32" radius. Length of pointed end, 5-1/2". Weight .91 lb	156G	156FG	6
CURVED PICK HAMMER 	Like 156G except pick end is bent in arc of normal blow. Reaches behind reinforcements to difficult spots. Face, 11/4" round point, 1/32" radius. Length of pointed end, 5-1/2". Weight .86 lb	156GB	156FGB	6
GENERAL PURPOSE PICK HAMMER 	Medium size point and reach for general work. Low crown strawberry point for perfect balance. Face, 1-9/16" round point, 3/32" radius. Length of pick end, 3-3/4". Weight .91 lb	158G	158FG	6

Body Hammers

Only *Martin* Provides This Added Warranty —
If a Hammer Head Should Loosen at Any Time,
Return It for Handle Replacement or a New Hammer.









Type	Description	Part Number		Std. Pkg. Qty.
		Wood handle	Fiberglass Handle	
ROUND POINT FINISHING HAMMER 	Blunt point — long reach. For low spots on high crown panels and other work with long reach. Will not pick holes in the metal. Round face — 1-9/16" diameter. Blunt point 3" long. Weight .81 lb	158GM	158FGM	6
SHARP POINT FINISHING HAMMER 	Sharp point — long reach. For low spots on high crown panels and other work with long reach. Round face — 1-9/16" diameter. Sharp point 3" long. Weight .79 lb	158GMS	158FGMS	6
HEAVY-DUTY BUMPING HAMMER 	For heavy gauge truck fenders and panels. Also used in straightening reinforcements, braces, etc. Faces, 1-1/4" round and 1-3/16" square head, 4" overall. Weight 1.1 lb	160G	160FG	6
DINGING HAMMER 	Short-reach, lightweight. One low-crown, square face. Lightest dinging hammer in line. Faces, 1-1/4" round and 1-3/16" square. Head, 4" overall. Weight .83 lb	161G	161FG	6
SHRINKING HAMMER 	For work in close quarters. Expertly machined serrations on the round face. Plain square face, 1-1/8" round serrated face, 1-1/4" diameter. 4" overall. Weight .78 lb	162G	162FG	6
UTILITY PICK HAMMER 	Blunt point, short reach. For low spots in high-crown panels and other work with small clearance. Face, 1-9/16" round point, 5/32" radius. Length of pointed end, 2" head, 4" overall. Weight .75 lb	164G	164FG	6
PICK HAMMER 	Lightweight. Provides stubby pick point and high-crown peen-type faces. Will ding out small dents in high fins. No need to remove panels. Long reach, 18" handle. Weight 5 oz.	165G	—	6
PICK HAMMER 	Lightweight. Provides stubby pick point and high-crown peen-type faces. Will ding out small dents in high fins. No need to remove panels. 12" handle. Weight 4 oz.	166G	—	6
CROSS PEEN FINISHING HAMMER 	Used to bump odd fender or bumper contours. Round face — 1-9/16" diameter peen end 3/16" x 7/8". 5" overall head length. 12" handle. Weight .91 lb	168G	168FG	6
HIGH CROWN CROSS PEEN FINISHING HAMMER 	Ideal for forming radiuses, contours and curves-restoration, bike tanks. High Crown face — 1-9/16" diameter. 2-1/4" radius. Peen end 3/16" x 1". 5" overall head length. 12" handle. Weight 1.0 lb	168HC	168HCFG	6
LARGE FACE PICK FINISHING HAMMER 	For finishing and caulking. Round face — 1-7/8" diameter. 4-1/2" overall head length. 13" handle. Weight 1.0 lb	169G	169FG	6
DOOR SKIN HAMMER 	Rectangular heads fit in door flanges. Bent Head - medium crown - starts door skin fold. Straight head - high crown - for finishing. 12" overall length. Weight .94 lb	170G	170FG	6







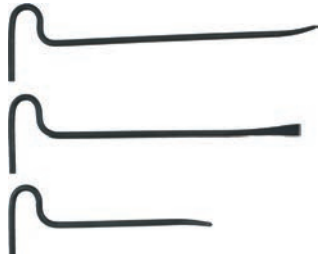
Type	Description	Part Number	Std. Pkg. Qty.
LIGHT WEIGHT TOE DOLLY	 Designed for flat surfaces. All the features of a toe dolly. Sizes 4-3/4" x 2-1/4" x 11/16". Weight 1.8 lb	1057	1
TOE DOLLY	 Thinness and length provide easy accessibility to narrow pockets. Large, flat face is frequently used in shrinking and dinging flat panels. The flat sides furnish a convenient anvil for repairing flanges. Sizes 4-3/4" x 2-3/8" x 1-1/8". Weight 3.0 lb	1058	1
SHRINKING DOLLY (SERRATED)	 Shaped like a toe dolly but has one face covered with raised serrations for shrinking metal stretched by dents. Weight 3.4 lb	1058S	1
HEEL DOLLY	 Design makes it possible to reach easily into sharp corners and wide radii. These features are exclusive to the Heel Dolly and continue its high demand. Sizes 3-1/4" x 2-1/2" x 1-7/16". Weight 2.7 lb	1059	1
GENERAL PURPOSE DOLLY	 Provides convenient and comfortable hand hold during heaviest blows. Weight, balance and several differently crowned working faces, together with two beading and flange lips, give this dolly broad general use. Sizes 2-7/8" x 2-3/8" x 2-1/4". Weight 3 lb	1060	1
UTILITY DOLLY	 High-crown dolly with one narrow beading edge. Thick rounded sides are useful in short radii curves. Wide application of uses in high-crown portions of hoods, fenders and body panels. Sizes 3-1/8" x 3" x 1-5/8". Weight 2.9 lb	1061	1
EGG SHAPED DOLLY	 This unique shape with high crown design is a very popular shape, with many different curves and angles. Sizes 1-5/8" x 2-1/2" x 3-3/4". Weight 3.1 lb	1064	1
LIGHT WEIGHT WEDGE DOLLY	 Short, slender general purpose Dolly. Good hand grip. Also used for beads or flanges on fenders. Thin edge is useful for corners and beading. Flat side works under long curve of fender. Size 2-7/64" x 2-1/2" x 4-27/64". Weight 2.7 lb	1065	1
WEDGE DOLLY	 Long, slender general purpose dolly. Widely favored by many body repair men for all-around use. The long, thin lip is very useful in working behind reinforcements. Sizes 5-3/4" x 2-3/8" x 2-3/16". Weight 4 lb	1067	1
LOW CROWN DOLLY	 Specially designed for use on low-crown panels where medium and high-crown dollies would stretch the metal. Angle between the sides and large face is less than 90°, which permits this dolly to reach into the corner of a flanged edge. Size 3-7/8" x 2-3/4" x 1-5/8". Weight 3.3 lb	1068	1
"CHAMPION" HEAVY WEIGHT DOLLY	 Heavy-duty, general purpose fender dolly. A necessity on heavy gauge fenders which resist the blows of lighter dollies. Brings out the toughest damage. Seats comfortably in the hand and protects fingers from a swinging blow. Sizes 3-3/8" x 3-3/8" x 2-11/16". Weight 4.6 lb	1070	1

Body and Fender Repair Tools

Body Spoons








Type	Description	Part Number	Std. Pkg. Qty.
LIGHT DINGING SPOON	 To ding ridges smooth and level. When held against ridge and struck with hammer, spreads blow over large area making smooth job and preventing damage to metal or finish. Not made for prying. Length 10" overall. Face 2" x 4-5/16". Weight .50 lb	1036	6
COMBINATION SPOON	 General purpose fender spoon. Used as dolly behind brackets, inner panels and similar places. Handle offset to give balance when dinging and for long reach. Has high-crown working surface. Face 1-3/4" x 5-1/2". Handle 1" octagon 4-3/4" long. Weight 3.0 lb	1050	4
SPOON DOLLY	 Long handle permits many uses in places otherwise inaccessible. Can be driven between reinforcements and outer panel, then used to pry outward as the metal is dinged. Excellent forming and caulking tool for the deep pockets of doors, quarter-panels, rear fenders and lower trunk panels. Size 2-1/2" x 1" x 3". Weight 4.2 lb	1052	1
LONG CURVED SPOON	 Long, thin, curved blade is handy for prying up dents behind curved reinforcements in header panels, hinge anchors in doors, body pillars and reinforcements in hoods and radiator shells. Length 10-1/2" overall. Face 2" x 7". Weight 1.5 lb	1054	6
WING-DING SPOON DOLLY	 The answer to repair problems on high fins. A dolly, a spoon, a pry. Long handle and special contours for working up inside cramped fins. Wide spoon transmits hammer blows over wide area without damaging finish. 1" handle diameter, 19" overall length. Weight 4.5 lb	1056	1
HEAVY-DUTY DRIVING AND FENDER BENDING TOOL	 Useful for restoration of turned under, non-wired flanged edges. Also handy for alignment of inner construction and flanges on alligator hoods. Heavy formed striking pads. Length 14-1/8". Weight 3.2 lb	1091	1
CAULKING IRON	 Excellent precision made wire caulking iron. Polished working surfaces are rounded for use on inside moldings. Face 1-3/4" x 1". Overall length 11". Weight 1.4 lb	1096C	6
SURFACING SPOON	 Excellent spoon for fender spring hammering, finishing and shaping. Curve gets behind inner construction between panels that are close for removal of dents. Molds panels. Blade fully polished. 9" Blade Length. 2-1/8" Width. Overall Length 15-1/8". Weight 2.5 lb	1024	1
MEDIUM CROWN SPOON	 Long slender shape just like the 1024 surfacing spoon. Inside with medium crown, for high ridges or prying. For slapping and surface finishing on fenders, panels and trunk lids. Blade fully polished. 9" Blade Length. 2-1/8" Width. Overall Length 14-7/8". Weight 1.5 lb	1026	1
HEAVY-DUTY DOUBLE END S-SPOON	 General purpose fender and frame spoon. Designed to provide further reach on panels and behind reinforcements. Prying, heavy duty design for use on SUV frames. 12-3/16" Length. 1-3/8 X 5-1/4" Face. Weight 3.0 lb	1044	1

Type	Description	Part Number	Std. Pkg. Qty.
MEDIUM CURVED PICK	 Medium length. Curved and pointed. Use twisting or prying action. Length 26-1/2". Weight 2.2 lb	1106	1
LONG CURVED PICK	 Long length. Curved and pointed. Use twisting or prying action. Length 31". Weight 2.5 lb	1107	1
LONG CHISEL BIT PICK	 Heavy duty. Employ twisting action. Chisel bit 1". Length 20". Weight 1.9 lb	1109	1
SHORT CURVED PICK	 Extremely short length. Curved and pointed. Use twisting or prying action. Length 12". Weight .5 lb	1110	1
MEDIUM SHORT CURVED PICK	 Short length. Curved and pointed. Use twisting or prying action. Length 18". Weight .7 lb	1111	1
LIGHT CHISEL BIT PICK	 Light duty. Employ twisting action. Chisel bit 11/16". Length 16". Weight .7 lb	1112	1
PICK SET	 Body Pick Chisel set includes: 12" Pick, 18" Pick, 16" Pick. Weight 1.9 lb	1000PK	1

Body and Fender Repair Tools

Miscellaneous Tools

Type	Description	Part Number	Std. Pkg. Qty.
ADJUSTABLE AND FLEXIBLE FILE HOLDERS	 <p>Permits use of files to 14". Handle adjustable for both right and left hand use for working close to offset or panels. Permit flexing either way to maximum point of safety against breakage. Weight 1.7 lb</p>	1150	1
STANDARD 14" BODY FILE	 <p>Vixen milled, curved tooth. Plain blade. Flexible, standard cut, 8 tooth. 14" long. Weight .66 lb</p>	1158F	5
STRAIGHT SHELL BODY FILE	 <p>Vixen milled, curved tooth. Plain blade. Half round shell, 8 tooth. Concave for shallow concave work. 14" long. Weight .66 lb</p>	1163F	5
BODY DENT PULLER TOOL	 <p>Slide hammer activated. This tool provides a remarkably simple and easy method of removing a dent in a door or panel. Merely punch or drill a hole in the deepest part of the damage and insert a self-threading screw or hook. A few light impacts with the slide hammer will return the metal to original position. Shaft is 1/2" x 13" with locking device to keep screw from turning. Cadmium and black oxide rust-proof finish. Weight 3.9 lb</p>	DP38	1
THE KEY TO METAL BUMPING	 <p>This book, entitled "The Key to Metal Bumping," is an excellent instruction manual and guide for every body man or student. It provides authoritative reference for techniques and methods for all phases of body and fender work. Its 126 pages cover most approaches to body repair problems. Visual assistance is rendered by more than 100 illustrations. It includes explanations of many time-saving short-cut methods to make the job easier and better. Among other features is a glossary of terms used in the trade. This is the third edition. The first was published in the late thirties and over the years has enjoyed widespread acceptance and usage as a guide and text by many public, private and trade schools. It is a perfect "tool of the trade" for the student and journeyman alike.</p>	BFB	1

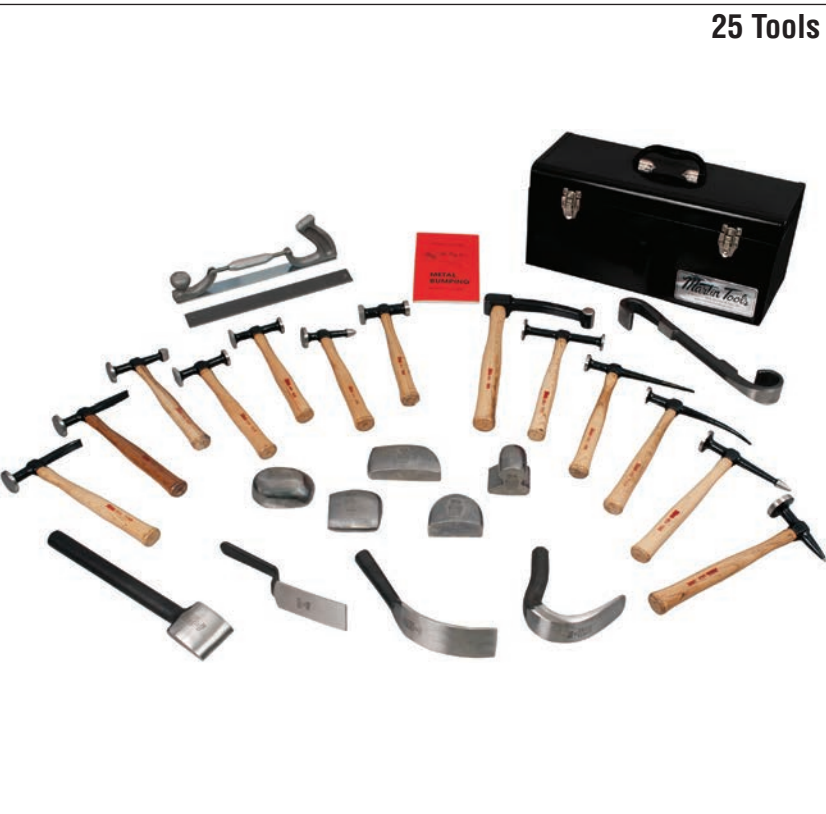
Part Number	659K
153G	Cross Chisel Straight Hammer
158G	General Purpose Pick Hammer
160G	Heavy Duty Bumping Hammer
164G	Utility Pick Hammer
1058	Toe Dolly Block
1059	Heel Dolly Block
1060	General Purpose Dolly Block
1036	Light Dinging Spoon
1150	Adjustable File Holder
1158F	Body File Standard 14"
BFB	Instruction Manual
BX18	Tool Box



Part Number	691K
153G	Cross Chisel Straight Hammer
156G	Pick Hammer
158G	General Purpose Pick Hammer
160G	Heavy Duty Bumping Hammer
161G	Dinging Hammer
164G	Utility Pick Hammer
1058	Toe Dolly Block
1059	Heel Dolly Block
1060	General Purpose Dolly Block
1036	Light Dinging Spoon
1052	Spoon Dolly
1050	Combination Spoon
1150	Adjustable File Holder
1158F	Body File Standard 14"
162G	Shrinking Hammer
BFB	Instruction Manual
BX18	Tool Box



Part Number	692K
150G	Dinging Hammer
153G	Cross Chisel Straight Hammer
153GB	Cross Chisel Curved Hammer
155G	Fender Bumper
156G	Pick Hammer
156GB	Curved Pick Hammer
158G	General Purpose Pick Hammer
160G	Heavy Duty Bumping Hammer
161G	Dinging Hammer
162G	Shrinking Hammer
164G	Utility Pick Hammer
168G	Cross Peen Finishing Hammer
169G	Large Face Pick Finishing Hammer
1036	Light Dinging Spoon
1050	Combination Spoon
1052	Spoon Dolly
1054	Long Curved Spoon
1058	Toe Dolly Block
1059	Heel Dolly Block
1060	General Purpose Dolly Block
1061	Utility Dolly Block
1068	Low Crown Dolly Block
1091	Heavy Duty Driving Spoon
1150	Adjustable File Holder
1158F	Body File Standard 14"
BFB	Instruction Manual
BX17	Tool Box



Body and Fender Repair Tools Tool Sets



Part Number	644K	Wood Handles
158G	General Purpose Pick Hammer	
153GB	Cross Chisel Curved Hammer	
1036	Light Dinging Spoon	
1058	Toe Dolly Block	



Part Number	644KFG	Fiberglass Handles
158FG	General Purpose Pick Hammer	
153FGB	Cross Chisel Curved Hammer	
1036	Light Dinging Spoon	
1058	Toe Dolly Block	



Part Number	647K	Wood Handles
153GB	Cross Chisel Curved Hammer	1058 Toe Dolly Block
162G	Shrinking Hammer	1059 Heel Dolly Block
164G	Utility Pick Hammer	1060 General Purpose Dolly Block
1036	Light Dinging Spoon	



Part Number	647KFG	Fiberglass Handles
153FGB	Cross Chisel Curved Hammer	1058 Toe Dolly Block
162FG	Shrinking Hammer	1059 Heel Dolly Block
164FG	Utility Pick Hammer	1060 General Purpose Dolly Block
1036	Light Dinging Spoon	



Part Number	694K	Wood Handles
158G	General Purpose Pick Hammer	
153GB	Cross Chisel Curved Hammer	
164G	Utility Pick Hammer	
170G	Door Skin Hammer	



Part Number	694KFG	Fiberglass Handles
158FG	General Purpose Pick Hammer	
153FGB	Cross Chisel Curved Hammer	
164FG	Utility Pick Hammer	
170FG	Door Skin Hammer	



Part Number	645K
1059	Heel Dolly
1060	General Purpose Dolly
1036	Light Dinging Spoon
1057	Light Weight Toe Dolly



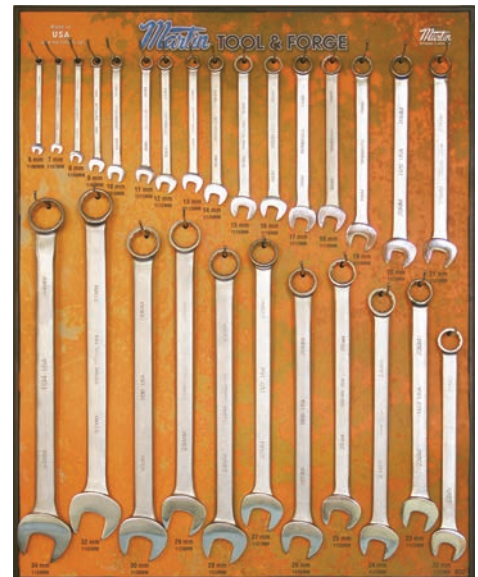
Combination Wrenches

BD1		QTY.
1158	1/4 Combination Wrench	1
1159	5/16 Combination Wrench	1
1159A	11/32 Combination Wrench	1
1160	3/8 Combination Wrench	1
1161	7/16 Combination Wrench	1
1162	1/2 Combination Wrench	1
1163	9/16 Combination Wrench	1
1164	5/8 Combination Wrench	1
1165	11/16 Combination Wrench	1
1166	3/4 Combination Wrench	1
1167A	13/16 Combination Wrench	1
1167	7/8 Combination Wrench	1
1168	15/16 Combination Wrench	1
1170	1 Combination Wrench	1
1171	1-1/16 Combination Wrench	1
1172	1-1/8 Combination Wrench	1
1173	1-1/4 Combination Wrench	1
1174	1-5/16 Combination Wrench	1
1175	1-3/8 Combination Wrench	1
1176	1-7/16 Combination Wrench	1



Combination Wrenches - Metric

BD2		QTY.
1106MM	6 MM Combination Wrench	1
1107MM	7 MM Combination Wrench	1
1108MM	8 MM Combination Wrench	1
1109MM	9 MM Combination Wrench	1
1110MM	10 MM Combination Wrench	1
1111MM	11 MM Combination Wrench	1
1112MM	12 MM Combination Wrench	1
1113MM	13 MM Combination Wrench	1
1114MM	14 MM Combination Wrench	1
1115MM	15 MM Combination Wrench	1
1116MM	16 MM Combination Wrench	1
1117MM	17 MM Combination Wrench	1
1118MM	18 MM Combination Wrench	1
1119MM	19 MM Combination Wrench	1
1120MM	20 MM Combination Wrench	1
1121MM	21 MM Combination Wrench	1
1122MM	22 MM Combination Wrench	1
1123MM	23 MM Combination Wrench	1
1124MM	24 MM Combination Wrench	1
1125MM	25 MM Combination Wrench	1
1126MM	26 MM Combination Wrench	1
1127MM	27 MM Combination Wrench	1
1128MM	28 MM Combination Wrench	1
1129MM	29 MM Combination Wrench	1
1130MM	30 MM Combination Wrench	1
1132MM	32 MM Combination Wrench	1
1134MM	34 MM Combination Wrench	1



Tool Display Boards



Hydraulic Wrenches

BD3		QTY.
3710A	11/32 x 11/32 Hydraulic Wrench	1
3710	3/8 x 3/8 Hydraulic Wrench	1
3711	7/16 x 7/16 Hydraulic Wrench	1
3712	1/2 x 1/2 Hydraulic Wrench	1
3713	9/16 x 9/16 Hydraulic Wrench	1
3714	5/8 x 5/8 Hydraulic Wrench	1
3715	11/16 x 11/16 Hydraulic Wrench	1
3716	3/4 x 3/4 Hydraulic Wrench	1
3717	13/16 x 13/16 Hydraulic Wrench	1
3718	7/8 x 7/8 Hydraulic Wrench	1
3719	15/16x15/16 Hydraulic Wrench	1
3720	1x1 Hydraulic Wrench	1
3721	1-1/16 x 1-1/16 Hydraulic Wrench	1
3722	1-1/8 x 1-1/8 Hydraulic Wrench	1
3722A	1-3/16 x 1-3/16 Hydraulic Wrench	1
3723	1-1/4 x 1-1/4 Hydraulic Wrench	1
3724	1-3/8 x 1-3/8 Hydraulic Wrench	1
3725	1-7/16 x 1-7/16 Hydraulic Wrench	1
3726	1-1/2 x 1-1/2 Hydraulic Wrench	1



Hydraulic Wrenches — Metric

BD4		QTY.
3709mm	9 mm Hydraulic Wrench	1
3710mm	10 mm Hydraulic Wrench	1
3711mm	11 mm Hydraulic Wrench	1
3712mm	12 mm Hydraulic Wrench	1
3713mm	13 mm Hydraulic Wrench	1
3714mm	14 mm Hydraulic Wrench	1
3715mm	15 mm Hydraulic Wrench	1
3716mm	16 mm Hydraulic Wrench	1
3717mm	17 mm Hydraulic Wrench	1
3718mm	18 mm Hydraulic Wrench	1
3719mm	19 mm Hydraulic Wrench	1
3720mm	20 mm Hydraulic Wrench	1
3721mm	21 mm Hydraulic Wrench	1
3722mm	22 mm Hydraulic Wrench	1
3723mm	23 mm Hydraulic Wrench	1
3724mm	24 mm Hydraulic Wrench	1
3727mm	27 mm Hydraulic Wrench	1
3730mm	30 mm Hydraulic Wrench	1
3732mm	32 mm Hydraulic Wrench	1
3734mm	34 mm Hydraulic Wrench	1
3736mm	36 mm Hydraulic Wrench	1



Service Wrenches

BD5		QTY.
1224	3/4 Service Wrench	1
1226	13/16 Service Wrench	1
1228	7/8 Service Wrench	1
1230	15/16 Service Wrench	1
1232	1 Service Wrench	1
1234	1-1/16 Service Wrench	1
1236	1-1/8 Service Wrench	1
1238	1-3/16 Service Wrench	1
1240	1-1/4 Service Wrench	1
1242	1-5/16 Service Wrench	1
1244	1-3/8 Service Wrench	1
1246	1-7/16 Service Wrench	1
1248	1-1/2 Service Wrench	1
1250	1-9/16 Service Wrench	1
1252	1-5/8 Service Wrench	1
1254	1-11/16 Service Wrench	1
1256	1-3/4 Service Wrench	1
1258	1-13/16 Service Wrench	1
1260	1-7/8 Service Wrench	1
1262	1-15/16 Service Wrench	1
1264	2-Service Wrench	1
1268	2-1/8 Service Wrench	1
1272	2-1/4 Service Wrench	1



Service Wrenches — Metric

BD6		QTY.
1219mm	19mm Service Wrench	1
1221mm	21 mm Service Wrench	1
1222mm	22 mm Service Wrench	1
1224mm	24 mm Service Wrench	1
1227mm	27 mm Service Wrench	1
1230mm	30 mm Service Wrench	1
1232mm	32 mm Service Wrench	1
1236mm	36 mm Service Wrench	1
1237mm	37 mm Service Wrench	1
1238mm	38 mm Service Wrench	1
1240mm	40 mm Service Wrench	1
1241mm	41 mm Service Wrench	1
1242mm	42 mm Service Wrench	1
1244mm	44 mm Service Wrench	1
1246mm	46 mm Service Wrench	1
1248mm	48 mm Service Wrench	1
1250mm	50 mm Service Wrench	1
1255mm	55 mm Service Wrench	1
1260mm	60 mm Service Wrench	1
1265mm	65 mm Service Wrench	1



Tool Display Boards



Double Open End / Box Wrenches

BD7		QTY.
1020	1/4 x 5/16 Open End Wrench	1
1721	5/16 x 3/8 Open End Wrench	1
1723	3/8 x 7/16 Open End Wrench	1
1725	7/16 x 1/2 Open End Wrench	1
1725A	7/16 x 9/16 Open End Wrench	1
1725B	1/2 x 9/16 Open End Wrench	1
1727	9/16 x 5/8 Open End Wrench	1
1027B	5/8 x 11/16 Open End Wrench	1
1729	5/8 x 3/4 Open End Wrench	1
1731	3/4 x 13/16 Open End Wrench	1
1033A	7/8 x 15/16 Open End Wrench	1
1733	7/8 x 1 Open End Wrench	1
1034A	15/16 x 1-1/16 Open End Wrench	1
1735	1 x 1-1/8 Open End Wrench	1
8723	3/8 x 7/16 Long Box Wrench	1
8725B	1/2 x 9/16 Long Box Wrench	1
8729	5/8 x 3/4 Long Box Wrench	1
8029B	11/16 x 3/4 Long Box Wrench	1
8033A	7/8 x 15/16 Long Box Wrench	1
8033C	15/16 x 1 Long Box Wrench	1
8735	1 x 1 1/8 Long Box Wrench	1
8037	1-1/16 x 1-1/4 Long Box Wrench	1
8039B	1-1/4 x 1-7/16 Long Box Wrench	1
9721	5/16 x 3/8 Dbl. Offset Box Wrench	1
9723	3/8 x 7/16 Dbl. Offset Box Wrench	1
9725B	1/2 x 9/16 Dbl. Offset Box Wrench	1
9727	9/16 x 5/8 Dbl. Offset Box Wrench	1
9729	5/8 x 3/4 Dbl. Offset Box Wrench	1



Check Nut Wrenches

BD9		QTY.
601A	7/16 Check Nut	1
601	1/2 Check Nut	1
602A	9/16 Check Nut	1
602	19/32 Check Nut	1
603A	5/8 Check Nut	1
603	11/16 Check Nut	1
604A	3/4 Check Nut	1
605A	13/16 Check Nut	1
605	7/8 Check Nut	1
606A	15/16 Check Nut	1
606B	1 Check Nut	1
607	1-1/16 Check Nut	1
607A	1-1/8 Check Nut	1
608	1-1/4 Check Nut	1
610MM	10mm Check Nut	1
611MM	1mm Check Nut	1
612MM	12mm Check Nut	1
613MM	13mm Check Nut	1
614MM	14mm Check Nut	1
615MM	15mm Check Nut	1
616MM	16mm Check Nut	1
617MM	17mm Check Nut	1
618MM	18mm Check Nut	1
619MM	19mm Check Nut	1
621MM	21mm Check Nut	1
622MM	22mm Check Nut	1
624MM	24mm Check Nut	1
627MM	27mm Check Nut	1
630MM	30mm Check Nut	1
632MM	32mm Check Nut	1



Crowfoot Wrenches

BD10		QTY.
4112	3/8 Crowfoot Wrench	1
4114	7/16 Crowfoot Wrench	1
4116	1/2 Crowfoot Wrench	1
4118	9/16 Crowfoot Wrench	1
4120	5/8 Crowfoot Wrench	1
4122	11/16 Crowfoot Wrench	1
4124	3/4 Crowfoot Wrench	1
4126	13/16 Crowfoot Wrench	1
4128	7/8 Crowfoot Wrench	1
4130	15/16 Crowfoot Wrench	1
4132	1 Crowfoot Wrench	1
4134	1-1/16 Crowfoot Wrench	1
4136	1-1/8 Crowfoot Wrench	1
4140	1-1/4 Crowfoot Wrench	1
4144	1-3/8 Crowfoot Wrench	1
4148	1-1/2 Crowfoot Wrench	1
BC20	5/8 Drive Crowfoot	1
BC22	11/16 Drive Crowfoot	1
BC24	3/4 Drive Crowfoot	1
BC26	13/16 Drive Crowfoot	1
BC28	7/8 Drive Crowfoot	1
BC30	15/16 Drive Crowfoot	1
BC32	1 Drive Crowfoot	1
BC34	1-1/16 Drive Crowfoot	1
SC36	1-1/8 Drive Crowfoot	1
SC38	1-3/16 Drive Crowfoot	1
SC40	1-1/4 Drive Crowfoot	1
SC42	1-5/16 Drive Crowfoot	1
SC44	1-3/8 Drive Crowfoot	1
SC46	1-7/16 Drive Crowfoot	1
SC50	1-9/16 Drive Crowfoot	1
SC52	1-5/8 Drive Crowfoot	1
SC54	1-11/16 Drive Crowfoot	1
SC56	1-3/4 Drive Crowfoot	1
SC58	1-13/16 Drive Crowfoot	1
SC60	1-7/8 Drive Crowfoot	1
SC62	1-15/16 Drive Crowfoot	1
SC64	2 Drive Crowfoot	1



Spanner Wrenches

BD11		QTY.
O471	3/4 to 2 Adjustable Pin Spanner	1
O471A	3/4 to 2 Adjustable Pin Spanner	1
O472	1-1/4 to 3 Adjustable Pin Spanner	1
O472A	1-1/4 to 3 Adjustable Pin Spanner	1
O474	2 to 4-3/4 Adjustable Pin Spanner	1
O474A	4-1/2 to 6-1/4 Adjustable Pin Spanner	1
471	3/4 to 2 Adjustable Hook Spanner	1
472	1-1/4 to 3 Adjustable Hook Spanner	1
474	2 to 4-3/4 Adjustable Hook Spanner	1
474A	4-1/2 to 6-1/4 Adjustable Hook Spanner	1
474B	6-1/8 to 8-3/4 Adjustable Hook Spanner	1
482	2 Adjustable Face Spanner	1
483	3 Adjustable Face Spanner	1
484	4 Adjustable Face Spanner	1



Tool Display Boards

Adjustable Wrenches

BD12		QTY.
A6	6 Adjustable Wrench	1
A6T	6 Adjustable Wrench Black	1
A8	8 Adjustable Wrench	1
A8T	8 Adjustable Wrench Black	1
A10	10 Adjustable Wrench	1
A10T	10 Adjustable Wrench Black	1
A12	12 Adjustable Wrench	1
A12T	12 Adjustable Wrench Black	1
A 15	15 Adjustable Wrench	1
A15T	15 Adjustable Wrench Black	1
A18	18 Adjustable Wrench	1
A18T	18 Adjustable Wrench Black	1
89311	11 Adjustable Auto Wrench	1



Pliers

BD13		QTY.
P206	6 Diagonal Cutting	1
P208	8 Combination Slip Joint	1
P210	10 Combination Slip Joint	1
P307	7 Lineman's	1
P308	8-1/2 Lineman's	1
P309	9-1/4 New England Pattern Lineman's	1
P407	7 Tongue and Groove	1
P506	6-1/2 Long Chain Side Cutting	1
P507	8 Long Chain Side Cutting	1
P510	10 Tongue and Groove	1
P2065	6-3/4 Combination Slip Joint	1
P2075	7 Diagonal Cutting	1
P71275	13 Tongue and Groove	1
P75	10" Retaining Ring Plier 1-1/2" - 4"	1
P1421	6" Retaining Ring Plier 1/8" - 1"	1
P1434	8" Retaining Ring Plier 1/4" - 2"	1



Dollies

BD14		QTY.
1024	Surfacing Spoon	1
1036	Light Dinging Spoon	1
1052	Spoon Dolly	1
1056	Wing-Ding Spoon Dolly	1
1057	Light Weight Toe Dolly	1
1058	Toe Dolly	1
1058S	Shrinking Dolly (Serrated)	1
1059	Heel Dolly	1
1060	General Purpose Dolly	1
1065	Light Weight Wedge Dolly	1



Wood Handle Hammers

BD15WD		QTY.
150G	Dinging Hammer	1
153G	Cross Chisel Hammer	1
153GB	Cross Chisel Curved Hammer	1
153S	Cross Chisel Shrinking Hammer	1
156GB	Curved Pick Hammer	1
158G	General Purpose Pick Hammer	1
160G	Heavy Duty Bumping Hammer	1
162G	Shrinking Hammer	1
164G	Utility Pick Hammer	1
168G	Cross Peen Finishing Hammer	1
170G	Door Skin Hammer	1



Fiberglass Handle Hammers

BD15FG		QTY.
150FG	Dinging Hammer	1
153FG	Cross Chisel Hammer	1
153FGB	Cross Chisel Curved Hammer	1
153SFG	Cross Chisel Shrinking Hammer	1
156FG	Curved Pick Hammer	1
158FG	General Purpose Pick Hammer	1
160FG	Heavy Duty Bumping Hammer	1
162FG	Shrinking Hammer	1
164FG	Utility Pick Hammer	1
168FG	Cross Peen Finishing Hammer	1
170FG	Door Skin Hammer	1



Tool Display Boards

1/4" & 3/8" Sockets

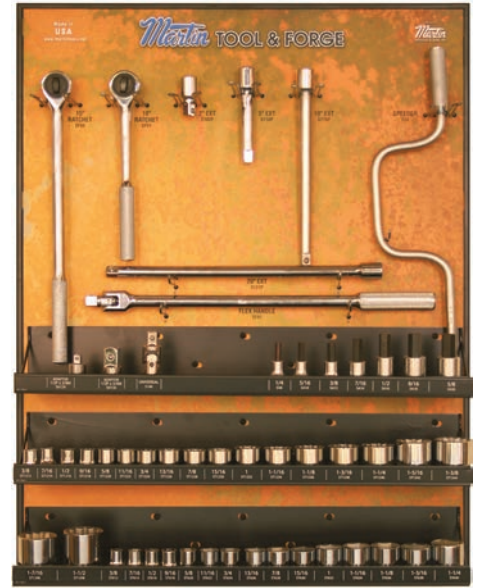
BD16		QTY.	BD16		QTY.
M52	ATTACH,1/4,RATCH	1	BU620	SKT,3/8,6PT,FLEX,5/8	1
M103	ATTACH,1/4,EXT,3	1	BU622	SKT,3/8,6PT,FLEX,11/16	1
M106	ATTACH,1/4,SPINNER,6	1	BU624	SKT,3/8,6PT,FLEX,3/4	1
M605	SKT,1/4,6PT,STD,5/32	1	B40A	RATCH,3/8,F-HDL,8 1/2	1
M606	SKT,1/4,6PT,STD,3/16	1	B52	RATCH,3/8,REV,7	1
M607	SKT,1/4,6PT,STD,7/32	1	B54	RATCH,3/8,FLEX	1
M608	SKT,1/4,6PT,STD,1/4	1	B103	ATTACH,EXT,3/8,3	1
M609	SKT,1/4,6PT,STD,9/32	1	B105	ATTACH,EXT,3/8,5	1
M610	SKT,1/4,6PT,STD,5/16	1	B112	ATTACH,EXT,3/8,12	1
M611	SKT,1/4,6PT,STD,11/32	1	B608	SKT,3/8,6PT,STD,1/4	1
M612	SKT,1/4,6PT,STD,3/8	1	B610	SKT,3/8,6PT,STD,5/16	1
M614	SKT,1/4,6PT,STD,7/16	1	B612	SKT,3/8,6PT,STD,3/8	1
M616	SKT,1/4,6PT,STD,1/2	1	B614	SKT,3/8,6PT,STD,7/16	1
M1206	SKT,1/4,12PT,STD,3/16	1	B616	SKT,3/8,6PT,STD,1/2	1
M1207	SKT,1/4,12PT,STD,7/32	1	B618	SKT,3/8,6PT,STD,9/16	1
M1208	SKT,1/4,12PT,STD,1/4	1	B620	SKT,3/8,6PT,STD,5/8	1
M1209	SKT,1/4,12PT,STD,9/32	1	B622	SKT,3/8,6PT,STD,11/16	1
M1210	SKT,1/4,12PT,STD,5/16	1	B624	SKT,3/8,6PT,STD,3/4	1
M1211	SKT,1/4,12PT,STD,11/32	1	B626	SKT,3/8,6PT,STD,13/16	1
M1212	SKT,1/4,12PT,STD,3/8	1	B628	SKT,3/8,6PT,STD,7/8	1
M1214	SKT,1/4,12PT,STD,7/16	1	B630	SKT,3/8,6PT,STD,15/16	1
M1216	SKT,1/4,12PT,STD,1/2	1	B632	SKT,3/8,6PT,STD,1	1
MD606	SKT,1/4,6PT,DP,3/16	1	B1208	SKT,3/8,12PT,STD,1/4	1
MD607	SKT,1/4,6PT,DP,7/32	1	B1210	SKT,3/8,12PT,STD,5/16	1
MD608	SKT,1/4,6PT,DP,1/4	1	B1212	SKT,3/8,12PT,STD,3/8	1
MD609	SKT,1/4,6PT,DP,9/32	1	B1214	SKT,3/8,12PT,STD,7/16	1
MD610	SKT,1/4,6PT,DP,5/16	1	B1216	SKT,3/8,12PT,STD,1/2	1
MD611	SKT,1/4,6PT,DP,11/32	1	B1218	SKT,3/8,12PT,STD,9/16	1
MD612	SKT,1/4,6PT,DP,3/8	1	B1220	SKT,3/8,12PT,STD,5/8	1
MD614	SKT,1/4,6PT,DP,7/16	1	B1222	SKT,3/8,12PT,STD,11/16	1
MD616	SKT,1/4,6PT,DP,1/2	1	B1224	SKT,3/8,12PT,STD,3/4	1
MM604	SKT,1/4,6PT,STD,4MM	1	B1226	SKT,3/8,12PT,STD,13/16	1
MM605	SKT,1/4,6PT,STD,5MM	1	B1228	SKT,3/8,12PT,STD,7/8	1
MM606	SKT,1/4,6PT,STD,6MM	1	B1230	SKT,3/8,12PT,STD,15/16	1
MM607	SKT,1/4,6PT,STD,7MM	1	B1232	SKT,3/8,12PT,STD,1	1
MM608	SKT,1/4,6PT,STD,8MM	1	BD608	SKT,3/8,6PT,DP,1/4	1
MM609	SKT,1/4,6PT,STD,9MM	1	BD610	SKT,3/8,6PT,DP,5/16	1
MM610	SKT,1/4,6PT,STD,10MM	1	BD612	SKT,3/8,6PT,DP,3/8	1
MM611	SKT,1/4,6PT,STD,11MM	1	BD614	SKT,3/8,6PT,DP,7/16	1
MM612	SKT,1/4,6PT,STD,12MM	1	BD616	SKT,3/8,6PT,DP,1/2	1
MM613	SKT,1/4,6PT,STD,13MM	1	BD618	SKT,3/8,6PT,DP,9/16	1
BS129	ATT,ADAPT,3/8-FX1/4-M	1	BD620	SKT,3/8,6PT,DP,5/8	1
BS130	ATT,ADAPT,3/8-FX1/2-M	1	BD622	SKT,3/8,6PT,DP,11/16	1
B140A	ATTACH,3/8,UNIVERSAL	1	BD624	SKT,3/8,6PT,DP,3/4	1
BA4	SKT,3/8,HEX,BIT,1/8	1	BD626	SKT,3/8,6PT,DP,13/16	1
BA5	SKT,3/8,HEX,BIT,5/32	1	BD628	SKT,3/8,6PT,DP,7/8	1
BA6	SKT,3/8,HEX,BIT,3/16	1	BD630	SKT,3/8,6PT,DP,15/16	1
BA7	SKT,3/8,HEX,BIT,7/32	1	BD632	SKT,3/8,6PT,DP,1	1
BA8	SKT,3/8,HEX,BIT,1/4	1	BD620P	SKT,3/8,6PT,SPK,PLG,5/8	1
BA10	SKT,3/8,HEX,BIT,5/16	1	BD626P	SKT,3/8,6PT,SPK,PLG,13/16	1
BA12	SKT,3/8,HEX,BIT,5/16	1	BD1212	SKT,3/8,12PT,DP,3/8	1
BU612	SKT,3/8,6PT,FLEX,3/8	1	BD1214	SKT,3/8,12PT,DP,7/16	1
BU614	SKT,3/8,6PT,FLEX,7/16	1	BD1216	SKT,3/8,12PT,DP,1/2	1
BU616	SKT,3/8,6PT,FLEX,1/2	1	BD1218	SKT,3/8,12PT,DP,9/16	1
BU618	SKT,3/8,6PT,FLEX,9/16	1	BD1220	SKT,3/8,12PT,DP,5/8	1



BD16		QTY.
BD1222	SKT,3/8,12PT,DP,11/16	1
BD1224	SKT,3/8,12PT,DP,3/4	1
BD1226	SKT,3/8,12PT,DP,13/16	1
BD1228	SKT,3/8,12PT,DP,7/8	1
BM606	SKT,3/8,6PT,STD,6MM	1
BM607	SKT,3/8,6PT,STD,7MM	1
BM608	SKT,3/8,6PT,STD,8MM	1
BM609	SKT,3/8,6PT,STD,9MM	1
BM610	SKT,3/8,6PT,STD,10MM	1
BM611	SKT,3/8,6PT,STD,11MM	1
BM612	SKT,3/8,6PT,STD,12MM	1
BM613	SKT,3/8,6PT,STD,13MM	1
BM614	SKT,3/8,6PT,STD,14MM	1
BM615	SKT,3/8,6PT,STD,15MM	1
BM616	SKT,3/8,6PT,STD,16MM	1
BM617	SKT,3/8,6PT,STD,17MM	1
BM618	SKT,3/8,6PT,STD,18MM	1
BM619	SKT,3/8,6PT,STD,19MM	1
BMD606	SKT,3/8,6PT,DP,6MM	1
BMD607	SKT,3/8,6PT,DP,7MM	1
BMD608	SKT,3/8,6PT,DP,8MM	1
BMD609	SKT,3/8,6PT,DP,9MM	1
BMD610	SKT,3/8,6PT,DP,10MM	1
BMD611	SKT,3/8,6PT,DP,11MM	1
BMD612	SKT,3/8,6PT,DP,12MM	1
BMD613	SKT,3/8,6PT,DP,13MM	1
BMD614	SKT,3/8,6PT,DP,14MM	1
BMD615	SKT,3/8,6PT,DP,15MM	1
BMD616	SKT,3/8,6PT,DP,16MM	1
BMD617	SKT,3/8,6PT,DP,17MM	1
BMD618	SKT,3/8,6PT,DP,18MM	1
BMD619	SKT,3/8,6PT,DP,19MM	1

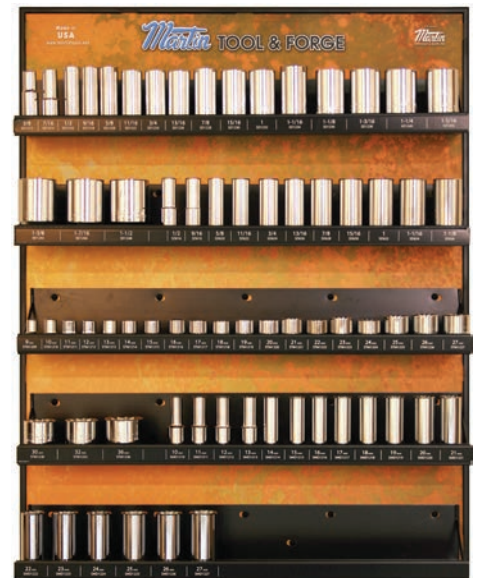
1/2" Chrome

BD17		QTY.	BD17		QTY.
S15	ATTACH,1/2,SPEEDER,18	1	ST1228	SKT,1/2,12P,STD,7/8	1
S102P	ATTACH,1/2,EXT,2	1	ST1230	SKT,1/2,12P,STD,15/16	1
S110P	ATTACH,1/2,EXT,5	1	ST1232	SKT,1/2,12P,STD,1	1
S115P	ATTACH,1/2,EXT,10	1	ST1234	SKT,1/2,12P,STD,1-1/16	1
S121P	ATTACH,1/2,EXT,18	1	ST1236	SKT,1/2,12P,STD,1-1/8	1
S140	ATTACH,1/2,UNIVERSAL	1	ST1238	SKT,1/2,12P,STD,1-3/16	1
SA8	SKT,1/2,HEX,BIT,1/4	1	ST1240	SKT,1/2,12P,STD,1-1/4	1
SA10	SKT,1/2,HEX,BIT,5/16	1	ST1242	SKT,1/2,12PT,STD,1-5/16	1
SA12	SKT,1/2,HEX,BIT,3/8	1	ST1244	SKT,1/2,12P,STD,1-3/8	1
SA14	SKT,1/2,HEX,BIT,7/16	1	ST1246	SKT,1/2,12PT,STD,1-7/16	1
SA16	SKT,1/2,HEX,BIT,1/2	1	ST1248	SKT,1/2,12P,STD,1-1/2	1
SA18	SKT,1/2,HEX,BIT,9/16	1	ST612	SKT,1/2,6P,STD,3/8	1
SA20	SKT,1/2,HEX,BIT,5/8	1	ST614	SKT,1/2,6P,STD,7/16	1
SF41	ATTACH,1/2,F-HDL,17	1	ST616	SKT,1/2,6P,STD,1/2	1
SF51	RACTH,1/2,REV,10	1	ST618	SKT,1/2,6P,STD,9/16	1
SF55	1/2" RATCHET 15"	1	ST620	SKT,1/2,6P,STD,5/8	1
SH129	ADAPT,1/2F X 3/8M	1	ST622	SKT,1/2,6P,STD,11/16	1
SH130	ADAPT,1/2 F X 3/4M	1	ST624	SKT,1/2,6P,STD,3/4	1
ST1212	SKT,1/2,12P,STD,3/8	1	ST626	SKT,1/2,6P,STD,13/16	1
ST1214	SKT,1/2,12P,STD,7/16	1	ST628	SKT,1/2,6P,STD,7/8	1
ST1216	SKT,1/2,12PT,STD,1/2	1	ST630	SKT,1/2,6P,STD,15/16	1
ST1218	SKT,1/2,12P,STD,9/16	1	ST632	SKT,1/2,6P,STD,1	1
ST1220	SKT,1/2,12P,STD,5/8	1	ST634	SKT,1/2,6P,STD,1-1/16	1
ST1222	SKT,1/2,12P,STD,11/16	1	ST636	SKT,1/2,6P,STD,1-1/8	1
ST1224	SKT,1/2,12P,STD,3/4	1	ST638	SKT,1/2,6P,STD,1-3/16	1
ST1226	SKT,1/2,12P,STD,13/16	1	ST640	SKT,1/2,6P,STD,1-1/4	1



1/2" Chrome Sockets

BD18		QTY.	BD18		QTY.
SD1212	SKT,1/2,12P,DP,3/8	1	STM1214	SKT,1/2,12P,STD,14MM	1
SD1214	SKT,1/2,12P,DP,7/16	1	STM1215	SKT,1/2,12P,STD,15MM	1
SD1216	SKT,1/2,12P,DP,1/2	1	STM1216	SKT,1/2,12P,STD,16MM	1
SD1218	SKT,1/2,12P,DP,9/16	1	STM1217	SKT,1/2,12P,STD,17MM	1
SD1220	SKT,1/2,12P,DP,5/8	1	STM1218	SKT,1/2,12P,STD,18MM	1
SD1222	SKT,1/2,12P,DP,11/16	1	STM1219	SKT,1/2,12P,STD,19MM	1
SD1224	SKT,1/2,12P,DP,3/4	1	STM1220	SKT,1/2,12P,STD,20MM	1
SD1226	SKT,1/2,12P,DP,13/16	1	STM1221	SKT,1/2,12P,STD,21MM	1
SD1228	SKT,1/2,12P,DP,7/8	1	STM1222	SKT,1/2,12P,STD,22MM	1
SD1230	SKT,1/2,12P,DP,15/16	1	STM1223	SKT,1/2,12P,STD,23MM	1
SD1232	SKT,1/2,12P,DP,1	1	STM1224	SKT,1/2,12P,STD,24MM	1
SD1234	SKT,1/2,12P,DP,1-1/16	1	STM1225	SKT,1/2,12P,STD,25MM	1
SD1236	SKT,1/2,12P,DP,1-1/8	1	STM1226	SKT,1/2,12P,STD,26MM	1
SD1238	SKT,1/2,12P,DP,1-3/16	1	STM1227	SKT,1/2,12P,STD,27MM	1
SD1240	SKT,1/2,12P,DP,1-1/4	1	STM1230	SKT,1/2,12P,STD,30MM	1
SD1242	SKT,1/2,12P,DP,1-5/16	1	STM1232	SKT,1/2,12P,STD,32MM	1
SD1244	SKT,1/2,12P,DP,1-3/8	1	STM1236	SKT,1/2,12P,STD,36MM	1
SD1246	SKT,1/2,12P,DP,1-7/16	1	SMD1210	SKT,1/2,12P,DP,10MM	1
SD1248	SKT,1/2,12P,DP,1-1/2	1	SMD1211	SKT,1/2,12P,DP,11MM	1
SD616	SKT,1/2,6P,DP,1/2	1	SMD1212	SKT,1/2,12P,DP,12MM	1
SD618	SKT,1/2,6P,DP,9/16	1	SMD1213	SKT,1/2,12P,DP,13MM	1
SD620	SKT,1/2,6P,DP,5/8	1	SMD1214	SKT,1/2,12P,DP,14MM	1
SD622	SKT,1/2,6P,DP,11/16	1	SMD1215	SKT,1/2,12P,DP,15MM	1
SD624	SKT,1/2,6P,DP,3/4	1	SMD1216	SKT,1/2,12P,DP,16MM	1
SD626	SKT,1/2,6P,DP,13/16	1	SMD1217	SKT,1/2,12P,DP,17MM	1
SD628	SKT,1/2,6P,DP,7/8	1	SMD1218	SKT,1/2,12P,DP,18MM	1
SD630	SKT,1/2,6P,DP,15/16	1	SMD1219	SKT,1/2,12P,DP,19MM	1
SD632	SKT,1/2,6P,DP,1	1	SMD1220	SKT,1/2,12P,DP,20MM	1
SD634	SKT,1/2,6P,DP,1-1/16	1	SMD1221	SKT,1/2,12P,DP,21MM	1
SD636	SKT,1/2,6P,DP,1-1/8	1	SMD1222	SKT,1/2,12P,DP,22MM	1
STM1209	SKT,1/2,12P,STD,9MM	1	SMD1223	SKT,1/2,12P,DP,23MM	1
STM1210	SKT,1/2,12P,STD,10MM	1	SMD1224	SKT,1/2,12P,DP,24MM	1
STM1211	SKT,1/2,12P,STD,11MM	1	SMD1225	SKT,1/2,12P,DP,25MM	1
STM1212	SKT,1/2,12P,STD,12MM	1	SMD1226	SKT,1/2,12P,DP,26MM	1
STM1213	SKT,1/2,12P,STD,13MM	1	SMD1227	SKT,1/2,12P,DP,27MM	1



Tool Display Boards



3/4" Chrome

BD19		QTY.
H20A	ATTACH,3/4,T-SLIDE	1
H41A	ATTACH,3/4,F-HDL,21-5/8	1
H51	RATCH,3/4,REV,24	1
H104	ATTACH,3/4,EXT,3-1/2	1
H110	ATTACH,3/4,EXT,8	1
H115	ATTACH,3/4,EXT,16	1
H140	ATTACH,3/4,UNIVERSAL	1
H1224	SKT,3/4,12PT,STD,3/4	1
H1226	SKT,3/4,12PT,STD,13/16	1
H1228	SKT,3/4,12PT,STD,7/8	1
H1230	SKT,3/4,12PT,STD,15/16	1
H1232	SKT,3/4,12PT,STD,1	1
H1234	SKT,3/4,12PT,STD,1-1/16	1
H1236	SKT,3/4,12PT,STD,1-1/8	1
H1238	SKT,3/4,12PT,STD,1-3/16	1
H1240	SKT,3/4,12PT,STD,1-1/4	1
H1242	SKT,3/4,12PT,STD,1-5/16	1
H1244	SKT,3/4,12PT,STD,1-3/8	1
H1246	SKT,3/4,12PT,STD,1-7/16	1
H1248	SKT,3/4,12PT,STD,1-1/2	1
H1250	SKT,3/4,12PT,STD,1-9/16	1
H1252	SKT,3/4,12PT,STD,1-5/8	1
H1254	SKT,3/4,12PT,STD,1-11/16	1
H1256	SKT,3/4,12PT,STD,1-3/4	1
H1258	SKT,3/4,12PT,STD,1-13/16	1
H1260	SKT,3/4,12PT,STD,1-7/8	1
H1264	SKT,3/4,12PT,STD,2	1
H1266	SKT,3/4,12PT,STD,2 1/16	1
H1268	SKT,3/4,12PT,STD,2 1/7	1
H1270	SKT,3/4,12PT,STD,2 3/16	1
H1272	SKT,3/4,12PT,STD,2 1/4	1
H1276	SKT,3/4,12PT,STD,2 3/8	1



3/4" Impact

BD20		QTY.	BD20		QTY.
6107	3/4,EXT,7	1	6658	SKT,3/4,6P,STD,IMP,1-13/16	1
6110	3/4,EXT,10	1	6660	SKT,3/4,6P,STD,IMP,1-7/8	1
64A	3/4,ADAP,3/4F-1/2M	1	6662	SKT,3/4,6P,STD,IMP,1-15/16	1
67	3/4,ADAP,3/4F-1M	1	6664	SKT,3/4,6P,STD,IMP,2	1
6140A	3/4,IMP,UNIVERSAL	1	16624	SKT,3/4,6P,DP,IMP,3/4	1
6620	SKT,3/4,6P,STD,IMP,5/8	1	16626	SKT,3/4,6P,DP,IMP,13/16	1
6622	SKT,3/4,6P,STD,IMP,11/16	1	16628	SKT,3/4,6P,DP,IMP,7/8	1
6624	SKT,3/4,6P,STD,IMP,3/4	1	16630	SKT,3/4,6P,DP,IMP,15/16	1
6626	SKT,3/4,6P,STD,IMP,13/16	1	16632	SKT,3/4,6P,DP,IMP,1	1
6628	SKT,3/4,6P,STD,IMP,7/8	1	16634	SKT,3/4,6P,DP,IMP,1-1/16	1
6630	SKT,3/4,6P,STD,IMP,15/16	1	16636	SKT,3/4,6P,DP,IMP,1-1/8	1
6632	SKT,3/4,6P,STD,IMP,1	1	16638	SKT,3/4,6P,DP,IMP,1-3/16	1
6634	SKT,3/4,6P,STD,IMP,1-1/16	1	16640	SKT,3/4,6P,DP,IMP,1-1/4	1
6636	SKT,3/4,6P,STD,IMP,1-1/8	1	16642	SKT,3/4,6P,DP,IMP,1-5/16	1
6638	SKT,3/4,6P,STD,IMP,1-3/16	1	16644	SKT,3/4,6P,DP,IMP,1-3/8	1
6640	SKT,3/4,6P,STD,IMP,1-1/4	1	16646	SKT,3/4,6P,DP,IMP,1-7/16	1
6642	SKT,3/4,6P,STD,IMP,1-5/16	1	16648	SKT,3/4,6P,DP,IMP,1-1/2	1
6644	SKT,3/4,6P,STD,IMP,1-3/8	1	16650	SKT,3/4,6P,DP,IMP,1-9/16	1
6646	SKT,3/4,6P,STD,IMP,1-7/16	1	16652	SKT,3/4,6P,DP,IMP,1-5/8	1
6648	SKT,3/4,6P,STD,IMP,1-1/2	1	16654	SKT,3/4,6P,DP,IMP,111/16	1
6650	SKT,3/4,6P,STD,IMP,1-9/16	1	16656	SKT,3/4,6P,DP,IMP,1-3/4	1
6652	SKT,3/4,6P,STD,IMP,1-5/8	1	16660	SKT,3/4,6P,DP,IMP,1-7/8	1
6654	SKT,3/4,6P,STD,IMP,1-11/16	1	16664	SKT,3/4,6P,DP,IMP,2	1
6656	SKT,3/4,6P,STD,IMP,1-3/4	1			



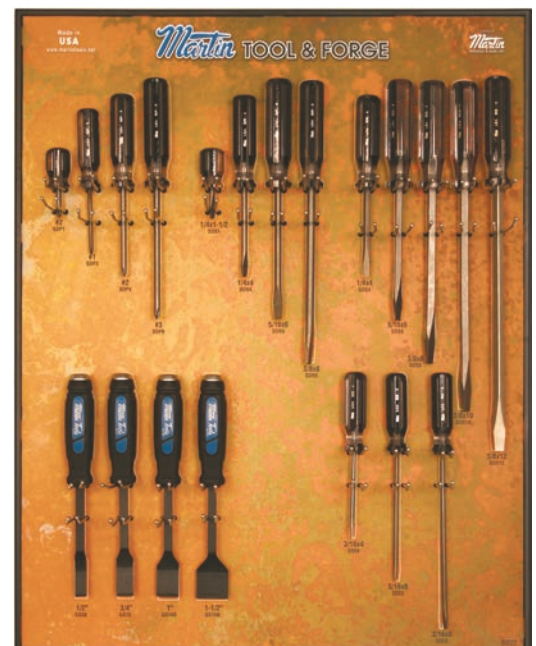
3/8" and 1/2" Impact

BD21	QTY.	BD21	QTY.
24A	1	4622	1
2140A	1	4624	1
2610	1	4626	1
2612	1	4628	1
2614	1	2630	1
2616	1	4632	1
2618	1	4634	1
2620	1	4636	1
2622	1	4638	1
2624	1	4640	1
12610	1	14612	1
12612	1	14614	1
12614	1	14616	1
12616	1	14618	1
12618	1	14620	1
12620	1	14622	1
12622	1	14624	1
12624	1	14626	1
2M610	1	14628	1
2M612	1	14630	1
2M613	1	14632	1
2M614	1	14634	1
2M615	1	14636	1
2M617	1	14640	1
2M618	1	4M613	1
2M619	1	4M614	1
4105A	1	4M615	1
4140A	1	4M616	1
42A	1	4M617	1
46	1	4M618	1
4612	1	4M619	1
4614	1	4M621	1
4616	1	4M622	1
4618	1	4M624	1
4620	1	4M627	1



Screwdrivers

BD22	QTY.
GS50	1
GS75	1
GS100	1
GS150	1
SDE4	1
SDE6	1
SDE8	1
SDP1	1
SDP3	1
SDP4	1
SDP6	1
SDR4	1
SDR6	1
SDR8	1
SDS1	1
SDS4	1
SDS6	1
SDS8	1
SDS10	1
SDS12	1

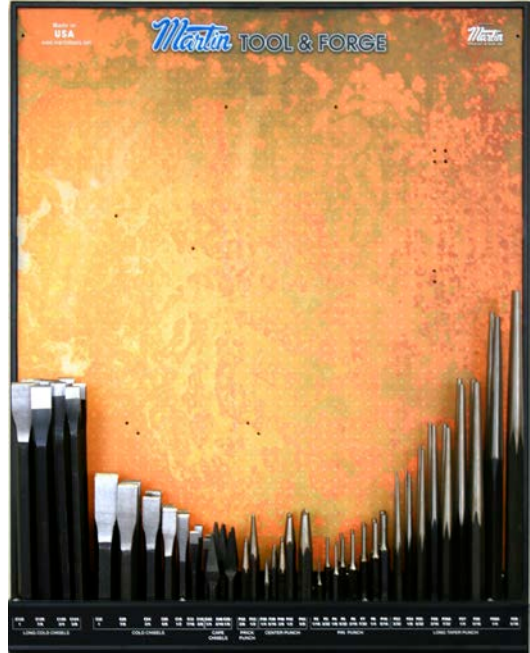


Tool Display Boards

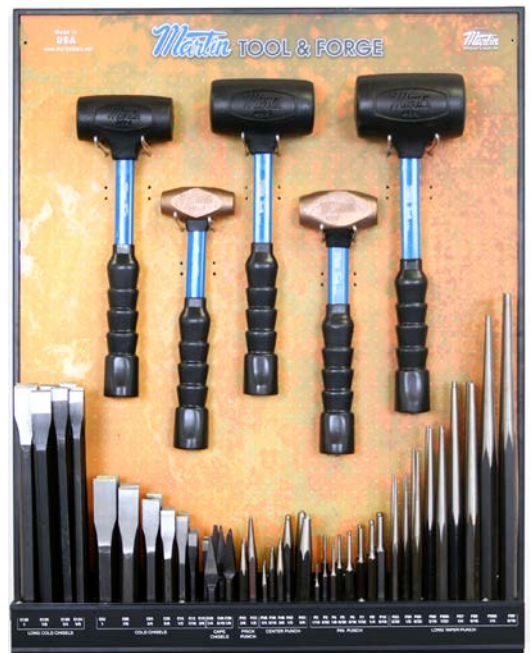


Chisel Boards

BD23	QTY.	BD23	QTY.
C120	1	P2	1
C124	1	P3	1
C129	1	P4	1
C132	1	P5	1
C10	1	P6	1
C12	1	P7	1
C16	1	P8	1
C20	1	P10	1
C24	1	P23	1
C28	1	P24	1
C32	1	P25	1
C39	1	P26	1
C40	1	P26A	1
C42	1	P27	1
P32	1	P28	1
P33	1	P28A	1
P38	1	P29	1
P39	1	192	1
P40	1	193	1
P42	1	196	1
P43	1	197	1
CHISEL, COLD, LNG, 3/4		PUNCH, PIN, 1/16	
CHISEL, COLD, LNG, 5/8		PUNCH, PIN, 3/32	
CHISEL, COLD, LNG, 7/8		PUNCH, PIN, 1/8	
CHISEL, COLD, LNG, 1		PUNCH, PIN, 5/32	
CHISEL, COLD, STD, 5/16		PUNCH, PIN, 3/16	
CHISEL, COLD, STD, 3/8		PUNCH, PIN, 7/32	
CHISEL, COLD, STD, 1/2		PUNCH, PIN, 1/4	
CHISEL, COLD, STD, 5/8		PUNCH, PIN, 5/16	
CHISEL, COLD, STD, 3/4		PUNCH, DRIFT, 3/32	
CHISEL, COLD, STD, 7/8		PUNCH, DRIFT, 1/8	
CHISEL, COLD, STD, 1		PUNCH, TAPER, 5/32	
CHISEL, CAPE, STD, 1/8		PUNCH, TAPER, 3/16	
CHISEL, CAPE, STD, 3/16		PUNCH, DRIFT, 7/32	
CHISEL, CAPE, STD, 1/4		PUNCH, TAPER, 1/4	
PUNCH, PRICK, 3/8		PUNCH, TAPER, 5/16	
PUNCH, PRICK, 1/2		PUNCH, DRIFT, 1/4	
PUNCH, CENTER, 1/4		PUNCH, DRIFT, 5/16	
PUNCH, CENTER, 5/16		PRY BAR, BLK, ROLL 1/2X12	
PUNCH, CENTER, 3/8		PRY BAR, BLK, ROLL 1/2X15	
PUNCH, CENTER, 1/2		PRY BAR, BLK, STR 5/8X16	
PUNCH, CENTER, 5/8		PRY BAR, BLK, STR 3/4X24	



BD23 with Optional Fiberglass Hammers	QTY.
BD23	See above
HPD2	1
HPD3	1
HPD4	1
HSB15	1
Same as above plus Hammers	
HAMMER, DEAD, BLOW, 1.5 LB	
HAMMER, DEAD, BLOW, 2.2 LB	
HAMMER, DEAD, BLOW, 2.9 LB	
HAMMER, SOLID, BRASS, 1-1/2	



HAMMER OPTION

Chisel Boards

BD23 with Pry Bar Option		QTY.
BD23	Same as BD23 plus Pry Bars	See BD23
192	PRY,BAR,BLK,ROLL,1/2X12	1
193	PRY,BAR,BLK,ROLL,1/2X15	1
196	PRY,BAR,BLK,STR,5/8X16	1
197	PRY,BAR,BLK,STR,3/4X24	1



BD24 Counter Top		QTY.	BD24 Counter Top		QTY.
C120	CHISEL,COLD,LNG,3/4	1	P2	PUNCH,PIN,1/16	1
C124	CHISEL,COLD,LNG,5/8	1	P3	PUNCH,PIN,3/32	1
C129	CHISEL,COLD,LNG,7/8	1	P4	PUNCH,PIN,1/8	1
C132	CHISEL,COLD,LNG,1	1	P5	PUNCH,PIN,5/32	1
C10	CHISEL,COLD,STD,5/16	1	P6	PUNCH,PIN,3/16	1
C12	CHISEL,COLD,STD,3/8	1	P7	PUNCH,PIN,7/32	1
C16	CHISEL,COLD,STD,1/2	1	P8	PUNCH,PIN,1/4	1
C20	CHISEL,COLD,STD,5/8	1	P10	PUNCH,PIN,5/16	1
C24	CHISEL,COLD,STD,3/4	1	P23	PUNCH,DRIFT,3/32	1
C28	CHISEL,COLD,STD,7/8	1	P24	PUNCH,DRIFT,1/8	1
C32	CHISEL,COLD,STD,1	1	P25	PUNCH,TAPER,5/32	1
C39	CHISEL,CAPE,STD,1/8	1	P26	PUNCH,TAPER,3/16	1
C40	CHISEL,CAPE,STD,3/16	1	P26A	PUNCH,DRIFT,7/32	1
C42	CHISEL,CAPE,STD,1/4	1	P27	PUNCH,TAPER,1/4	1
P32	PUNCH,PRICK,3/8	1	P28	PUNCH,TAPER,5/16	1
P33	PUNCH,PRICK,1/2	1	P28A	PUNCH,DRIFT,1/4	1
P38	PUNCH,CENTER,1/4	1	P29	PUNCH,DRIFT,5/16	1
P39	PUNCH,CENTER,5/16	1	192	PRY BAR,BLK,ROLL 1/2X12	1
P40	PUNCH,CENTER,3/8	1	193	PRY BAR,BLK,ROLL 1/2X15	1
P42	PUNCH,CENTER,1/2	1	196	PRY BAR,BLK,STR 5/8X16	1
P43	PUNCH,CENTER,5/8	1	197	PRY BAR,BLK,STR 3/4X24	1



COUNTER ON DISPLAY

Miscellaneous Display Board Parts



Header, Hook & Peg Boards



PART NO.		QTY.
BD-HEADER	Tool Board Header 23.5" x 3" Molded in Black, Raised Letter, w/2 Mounting Screws	1
1	Straight Hook	10
2	Heavy-Duty Straight Hook	5
3	Loop Hook	5
BD8	Universal Peg Board	1

Combination Wrenches - Chrome							Combination Wrenches - Industrial Black							Double Head Open End Wrenches - Industrial Black (Continuation)							Hydraulic Wrenches - Angle Openings - 15°-60° - Industrial Black							
Wrench Opening		Part Number					Wrench Opening		Part Number					Wrench Opening		Part Number					Wrench Opening		Part Number					
		Martin	Snap-On	Proto	Armstrong	Gray			Martin	Snap-On	Proto	Armstrong	Gray			Martin	Snap-On	Proto	Armstrong	Gray			Martin	Snap-On	Proto	Armstrong	Gray	
1/4		1158	OEX8B	J1208A	25-208	3108	6MM		BLK1106MM	---	---	56-206	---	---	1-1/8 x 1/4	BLK1737	---	---	30-872	---	---	11/32 x 11/32		BLK3710A	---	---	---	---
5/16		1159	OEX10B	J1210A	25-210	3110	7MM		BLK1107MM	---	---	56-207	---	---	1-1/8 x 5/16	BLK1037A	---	---	---	---	---	3/8 x 3/8		BLK3710	---	---	---	---
11/32		1159A	OEX11B	J1211A	25-211	3111	8MM		BLK1108MM	---	---	56-208	---	---	1-1/4 x 1/2	BLK1039B	G04042	J3055B	---	---	E4042B	7/16 x 7/16		BLK3711	---	---	---	---
3/8		1160	OEX12B	J1212ASD	25-212	3112	9MM		BLK1109MM	---	---	56-209	---	---	1-1/4 x 7/16	BLK1039	---	---	---	---	E4046B	1/2 x 1/2		BLK3712	GVS16B	---	---	---
7/16		1161	OEX14B	J1214ASD	25-214	3114	10MM		BLK1110MM	GOEXM100B	---	56-210	MC10B	---	---	1-5/16 x 1/2	BLK1039A	---	---	---	---	---	9/16 x 9/16		BLK3713	GVS18B	---	---
1/2		1162	OEX16B	J1216ASD	25-216	3116	11MM		BLK1111MM	GOEXM110B	---	56-211	MC11B	---	---	1-3/8 x 7/16	BLK1039C	G04044B	J3060B	---	---	---	5/8 x 5/8		BLK3714	GVS20B	---	---
9/16		1163	OEX18B	J1218ASD	25-218	3118	12MM		BLK1112MM	GOEXM120B	---	56-212	MC12B	---	---	1-1/4 x 1/2	BLK1040	---	---	---	---	---	11/16 x 11/16		BLK3715	GVS22B	---	---
5/8		1164	OEX20B	J1220ASD	25-220	3120	13MM		BLK1113MM	GOEXM130B	---	56-213	MC13B	---	---	1-7/16 x 1/2	BLK1041	---	---	---	---	---	3/4 x 3/4		BLK3716	GVS24B	---	---
11/8		1165	OEX22B	J1222ASD	25-222	3122	14MM		BLK1114MM	GOEXM140B	---	56-214	MC14B	---	---	1-1/2 x 1/2	BLK1041B	G040852	J3070B	30-902	---	---	13/16 x 13/16		BLK3717	GVS26B	---	---
3/4		1166	OEX24B	J1224ASD	25-224	3124	15MM		BLK1115MM	GOEXM150B	---	56-215	MC15B	---	---	1-1/16 x 1/2	BLK44A	---	---	---	---	---	7/8 x 7/8		BLK3718	GVS28B	---	---
13/16		1167	OEX26B	J1226ASD	25-226	3126	16MM		BLK1116MM	GOEXM160B	---	56-216	MC16B	---	---	1-3/16 x 2	BLK45	---	---	---	---	---	15/16 x 15/16		BLK3719	GVS30B	---	---
7/8		1167	OEX28B	J1228ASD	25-228	3128	17MM		BLK1117MM	GOEXM170B	---	56-217	MC17B	---	---	2-3/16 x 2-3/8	BLK49	---	---	---	---	---	1 x 1		BLK3720	GVS32B	---	---
15/16		1168	OEX30B	J1230ASD	25-230	3130	18MM		BLK1118MM	GOEXM180B	---	56-218	MC18B	---	---	2-1/4 x 2-7/16	BLK49A	---	---	---	---	---	1-1/16 x 1-1/16		BLK3721	---	---	---
1		1170	OEX32B	J1232ASD	25-232	3132	19MM		BLK1119MM	GOEXM190B	---	56-219	MC19B	---	---	---	---	---	---	---	---	1-1/8 x 1-1/8		BLK3722	---	---	---	---
1-1/16		1171	OEX34B	J1234ASD	25-234	3134	20MM		BLK1120MM	GOEXM200B	---	56-220	MC20B	---	---	---	---	---	---	---	---	1-3/16 x 1-3/16		BLK3722A	---	---	---	---
1-1/8		1172	OEX36B	J1236ASD	25-236	3136	21MM		BLK1121MM	GOEXM210B	---	56-221	MC21B	---	---	---	---	---	---	---	---	1-1/4 x 1-1/4		BLK3723	GVS40B	---	---	---
1-1/4		1173	OEX40B	J1240	25-240	3140	22MM		BLK1122MM	GOEXM220B	---	56-222	MC22B	---	---	---	---	---	---	---	---	1-3/8 x 1-3/8		BLK3724	---	---	---	---
1-5/16		1174	OEX42B	J1242	25-242	3142	23MM		BLK1123MM	GOEXM230B	---	56-223	MC23B	---	---	---	---	---	---	---	---	1-7/16 x 1-7/16		BLK3725	---	---	---	---
1-3/8		1175	OEX44B	J1244	25-244	3144	24MM		BLK1124MM	GOEXM240B	---	56-224	MC24B	---	---	---	---	---	---	---	---	1-1/2 x 1-1/2		BLK3726	---	---	---	---
1-7/16		1176	OEX46B	J1246	25-246	3146	25MM		BLK1125MM	---	---	---	---	---	---	---	---	---	---	---	---			---	---	---	---	---
1-1/2		1177	OEX48B	J1248	25-248	3148	26MM		BLK1126MM	---	---	---	---	---	---	---	---	---	---	---	---			---	---	---	---	---
1-5/8		1180	OEX52B	J1252	25-252	3152	27MM		BLK1127MM	---	---	---	---	---	---	---	---	---	---	---	---			---	---	---	---	---
1-11/16		1182	OEX54B	J1254	25-254	3154	28MM		BLK1128MM	---	---	---	---	---	---	---	---	---	---	---	---			---	---	---	---	---
1-3/4		1184	OEX56B	J1256	25-256	3156	29MM		BLK1129MM	---	---	---	---	---	---	---	---	---	---	---	---			---	---	---	---	---
1-13/16		1186	OEX58B	J1258	25-258	3158	30MM		BLK1130MM	---	---	---	---	---	---	---	---	---	---	---	---			---	---	---	---	---
1-7/8		1188	OEX60B	J1260	25-260	3160	32MM		BLK1132MM	---	---	---	---	---	---	---	---	---	---	---	---			---	---	---	---	---
2		1190	OEX64B	J1264	25-264	3164	34MM		BLK1134MM	---	---	---	---	---	---	---	---	---	---	---	---			---	---	---	---	---
2-1/16		1191	---	J1266	25-266	3166	36MM		BLK1136MM	---	---	---	---	---	---	---	---	---	---	---	---			---	---	---	---	---
2-1/8		1192	---	J1268	25-268	3168	41MM		BLK1141MM	---	---	---	---	---	---	---	---	---	---	---	---			---	---	---	---	---
2-3/16		1193	---	J1270	25-270	3170	46MM		BLK1146MM	---	---	---	---	---	---	---	---	---	---	---	---			---	---	---	---	---
2-1/4		1194	---	J1272	25-272	3172	50MM		BLK1150MM	---	---	---	---	---	---	---	---	---	---	---	---			---	---	---	---	---
2-3/8		1195	---	J1276	25-276	3176	55MM		BLK1155MM	---	---	---	---	---	---	---	---	---	---	---	---			---	---	---	---	---
2-1/2		1196	---	J1280	25-280	3180	60MM		BLK1160MM	---	---	---	---	---	---	---	---	---	---	---	---			---	---	---	---	---

SYNCHRONOUS DRIVES

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Stock Timing Pulleys



STOCK TIMING PULLEYS 1/5" - 7/8" PITCH QD, TAPER BUSHED AND STOCK BORE



Stock Bore



Taper Bushed



QD

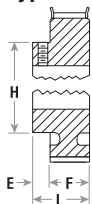
Pitch (Inches)	Pulley Designation
1/5"	XL (Extra Light)
3/8"	L (Light)
1/2"	H (Heavy)
7/8"	XH (Extra Heavy)

Martin Timing Pulleys are manufactured to extremely close specifications and are stocked in minimum plain bore, Taper Bushed and QD bushed styles depending on size and pitch.

See tables for stock pulley types. Bushings are priced separately and must be added to pulley price.

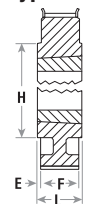
Illustrations below indicate stock pulley construction type listed in tables.

Type DF

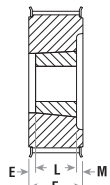


Type D

Type CF

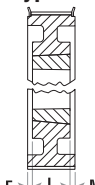


Type C

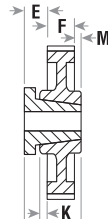


Type KF

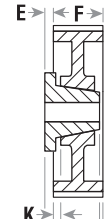
Type AF



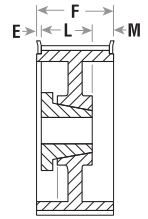
Type A



Type G



Type H



Type J

"F" designation in pulley type means pulley is flanged. When drive center distance is eight times the diameter of the smaller pulley or when drive is operating on vertical shafts, both pulleys should be flanged.

DEFINITION OF CATALOG NUMBERS

EX: TB 20L100

- TB — Requires Taper Bushing
- 20 — Number of Teeth
- L — 3/8" Pitch (Light)
- 100 — Belt Width 1"

EX: 72L100SD

- 72 — Number of Teeth
- L — 3/8" Pitch (Light)
- 100 — Belt Width 1"
- SD — Requires QD Bushing

EX: 16L100

Min. Plain Bore

Pulley sizes shown stocked as stock bore only: max. bore listed is without keyway. If keyway is used reduce max. bore by twice keyway depth.

K-2

Pulley Style Designation As Shown in Tables

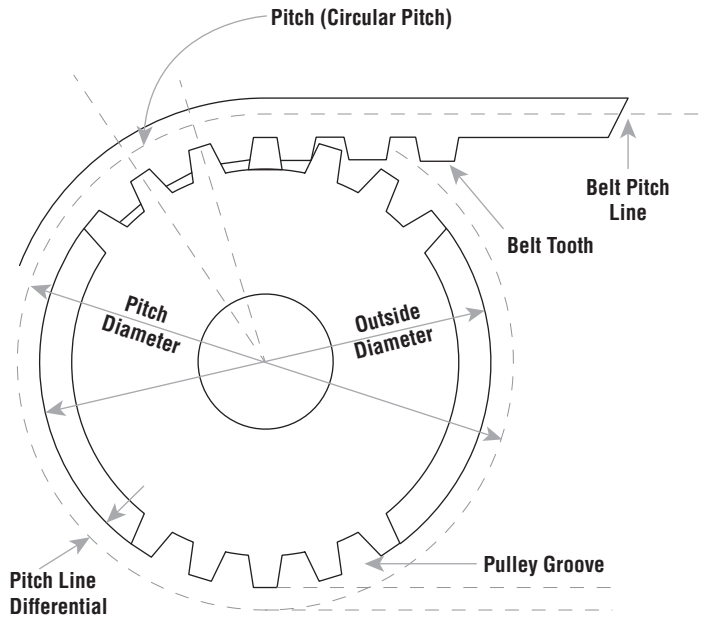
- Dash 1 = Block Body Style
- Dash 2 = Web Style
- Dash 3 = Arm/Spoke Style

Size XXH (1-1/4" Pitch).
Available as made-to-order.
Call your nearest *Martin* facility.

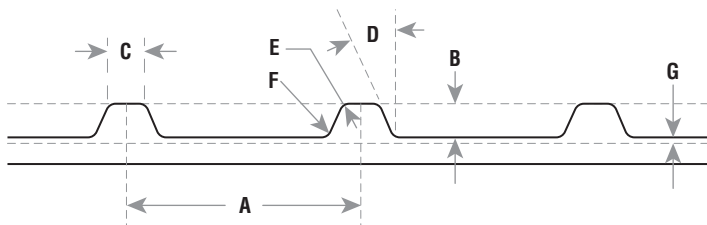
Let us quote your made-to-order and large quantity requirements.

Timing belts and pulleys — in order to handle a wide range of loads, speeds and applications at highest possible efficiencies — are made in five stock pitches. Circular pitch (usually referred to as pitch) is a basic consideration in the selection of timing pulleys as with gear and chain drives. Pitch is the distance between groove centers and is measured on the pulley pitch circle. On the belt, pitch is the distance between tooth centers and is measured on the pitch line of the belt.

The pitch line of the belt is located within the tension member and coincides with the pitch circle of the pulley mating with it. Any timing belt must be run with pulleys of the same pitch. A belt of one pitch cannot be used successfully with pulleys of a different pitch.



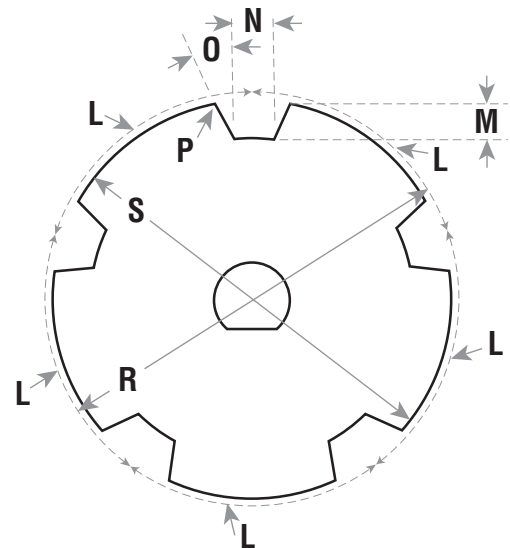
TIMING BELT TERMINOLOGY



- A** Pitch of Teeth
- B** Depth of Teeth
- C** Width at Bottom of Teeth
- D** Pressure Angle
- E** Radius at Bottom of Teeth
- F** Radius at Top of Teeth
- G** Pitch Line Differential

Belt P.L. = "A" X Total No. of Teeth in Belt

TIMING PULLEY TERMINOLOGY



- L** Circular Pitch of Groove
- M** Minimum Depth of Groove, Including Clearance
- N** Width of Groove at Minimum Depth, Including Clearance
- O** Pressure Angle
- P** Top Radius of Groove
- R** Pitch Diameter (Always > S)
- S** Outside Diameter

Timing Pulley Terminology



Timing Pulleys

Timing pulleys have evenly spaced axial grooves cut in their periphery to make correct, positive engagement with the mating teeth of the belt. These pulleys are designed so that the teeth of the belt enter and leave the grooves with negligible friction. All pulleys, stock and made-to-order, have minimum tooth-to-groove clearance (backlash). The pulley's pitch diameter will always be greater than its outside diameter. Pulleys are available in a wide range of stock widths and diameters.

Minimum Pulley Diameters

Pitch	Speed RPM	Recommended minimum*	No. of grooves
		Pitch (diam. in)	
1/5 in (XL)	3500	.764	12 XL
	1750	.637	10 XL
	1160	.637	10 XL
3/8 in (L)	3500	1.910	16 L
	1750	1.671	14 L
	1160	1.432	12 L
1/2 in (H)	3500	3.183	20 H
	1750	2.865	18 H
	1160	2.546	16 H
7/8 in (XH)	1750	7.242	26 XH
	1160	6.685	24 XH
	870	6.127	22 XH
1-1/4 in (XXH)	1750	10.345	26 XXH
	1160	9.549	24 XXH
	870	8.754	22 XXH

*Smaller diameter pulleys can be used if a corresponding reduction in belt service life is satisfactory.

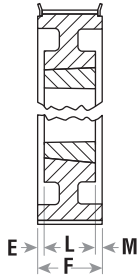
Flanged Pulleys

Because timing belts have an inherent, gentle side thrust, it is necessary to use at least one flanged pulley to prevent the belt from riding off. Generally, for economy, the smaller pulley in each drive is flanged. However, when the center distance is greater than eight times the diameter of the smaller pulley on drive ratios less than 3 to 1, or when the drive is operated on other than horizontal shafts — both pulleys should be flanged. When a drive has three pulleys, at least two should be flanged. If the drive has more than three pulleys, every other pulley should be flanged.

Pulley Diameters

Stock timing belts should not be used over pulley diameters less than those recommended above without expecting some reduction in belt life. This reduced belt life is the result of flex fatigue of the steel tension members in the belt. If pulleys smaller than recommended must be used, the use of special timing belts should be considered.

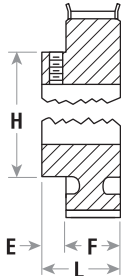
Type AF



Type A

Dash 1 = Solid Style

Type DF

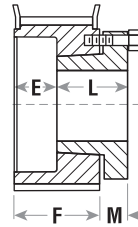


Type D

Dash 2 = Web Style

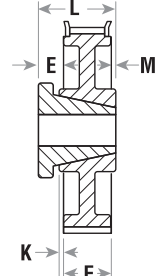
"F" type description indicates flanged.

Type EF



Type E

Type GF



Type G

Dash 3 = Arm/Spoke Style

XL - 1/5" Pitch

XL 037 For Belts 1/4" and 3/8" Wide

Minimum Plain Bore

F = 9/16

No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bore		E	H	L	Wt.
					Stock	Max.				
10	10XL037	0.637	0.929	DF-1	0.1875	0.25	0.2188	0.4375	0.7813	0.03
11	11XL037	0.700	0.929	DF-1	0.1875	0.25	0.2188	0.4375	0.7813	0.04
12	12XL037	0.764	0.993	DF-1	0.1875	0.3125	0.2188	0.5	0.7813	0.06
14	14XL037	0.891	1.120	DF-1	0.25	0.375	0.2188	0.5625	0.7813	0.08
15	15XL037	0.955	1.184	DF-1	0.25	0.4375	0.2188	0.6250	0.7813	0.09
16	16XL037	1.019	1.248	DF-1	0.25	0.5	0.2188	0.6875	0.7813	0.10
18	18XL037	1.146	1.375	DF-1	0.25	0.5625	0.2188	0.8125	0.7813	0.13
20	20XL037	1.273	1.502	DF-1	0.25	0.6875	0.3125	0.9375	0.875	0.18
21	21XL037	1.337	1.566	DF-1	0.25	0.6875	0.3125	0.9375	0.875	0.19
22	22XL037	1.401	1.630	DF-1	0.25	0.75	0.3125	1	0.875	0.22
24	24XL037	1.528	1.756	DF-1	0.25	0.8125	0.3125	1.0625	0.875	0.25
28	28XL037	1.783	2.011	DF-1	0.25	0.9375	0.3125	1.1875	0.875	0.34
30	30XL037	1.910	2.138	DF-1	0.3125	1.0625	0.3125	1.375	0.875	0.41
32	32XL037	2.037	—	D-1	0.3125	1.1875	0.4375	1.5	1	0.25
36	36XL037	2.292	—	D-1	0.3125	1.1875	0.4375	1.5	1	0.29
40	40XL037	2.546	—	D-1	0.3125	1.1875	0.4375	1.5	1	0.35
42	42XL037	2.674	—	D-1	0.3125	1.1875	0.4375	1.5	1	0.31
44	44XL037	2.801	—	D-1	0.3125	1.1875	0.4375	1.5	1	0.34
48	48XL037	3.056	—	D-1	0.3125	1.1875	0.4375	1.5	1	0.63
60	60XL037	3.820	—	D-1	0.375	1.1875	0.4375	1.5	1	0.90
72	72XL037	4.584	—	D-1	0.375	1.1875	0.4375	1.5	1	0.50

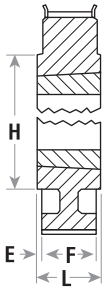
Note: XL Pulleys stocked min. plain bore with 2 setscrews @ 90°. If keyway is used, reduce max. bore by twice keyway depth.
Pulley O.D. = P.D. - .02".

L 3/8" Pitch

Stock Timing Pulleys



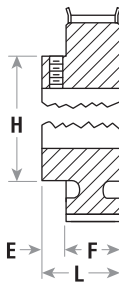
Type CF



Type C

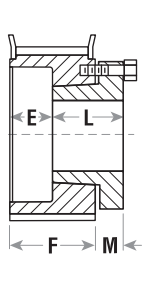
Dash 1 = Solid Style

Type DF



Type D

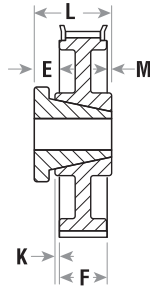
Type EF



Type E

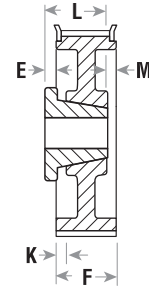
Dash 2 = Web Style

Type GF



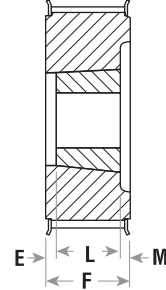
Type G

Type HF



Type H

Dash 3 = Arm/Spoke Style



Type KF

L - 3/8" Pitch

L050 For Belts 1/2" Wide

Minimum Plain Bore

F = 3/4

No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bore		Dimensions			Wt.
					Stock	Max.	E	H	L	
10	10L050	1.194	1.4375	DF-1	0.375	0.5625	0.375	0.8125	1.125	0.28
12	12L050	1.432	1.6719	DF-1	0.375	0.8125	0.5	1.0625	1.25	0.30
13	13L050	1.552	1.75	DF-1	0.375	0.8125	0.5	1.125	1.25	0.35
14	14L050	1.671	1.9219	DF-1	0.375	0.875	0.5	1.125	1.25	0.40
15	15L050	1.790	2	DF-1	0.5	0.9375	0.5	1.125	1.25	0.50
16	16L050	1.910	2.1563	DF-1	0.5	1.125	0.625	1.4375	1.375	0.60
17	17L050	2.029	2.2813	DF-1	0.5	1.125	0.625	1.5	1.375	0.65
18	18L050	2.149	2.3906	DF-1	0.5	1.1875	0.625	1.625	1.375	0.75
19	19L050	2.268	2.375	DF-1	0.5	1.1875	0.625	1.625	1.375	0.80
20	20L050	2.387	2.625	DF-1	0.5	1.25	0.625	1.6875	1.375	0.94
21	21L050	2.507	2.75	DF-1	0.5	1.3125	0.6875	1.875	1.4375	1.00
22	22L050	2.626	2.875	DF-1	0.5	1.5	0.75	2	1.5	1.10
24	24L050	2.865	3.1094	DF-1	0.5	1.625	0.75	2.25	1.5	1.60
26	26L050	3.104	3.3438	DF-1	0.5	1.625	0.75	2.50	1.5	2.30
28	28L050	3.342	3.5781	DF-1	0.5	1.625	0.75	2.75	1.5	2.50
30	30L050	3.581	3.8281	DF-1	0.5	1.625	0.75	2.375	1.5	2.70
32	32L050	3.820	4.0625	DF-1	0.5	1.875	0.875	3.0625	1.625	3.00

L Pulleys 10 - 16 teeth min. plain bore stocked with 1 set screw. If keyway is used, reduced max. bore by twice keyway depth.

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. - .03"

L - 3/8" Pitch

L050 For Belts 1/2" Wide (3/8" Pitch)

QD Type

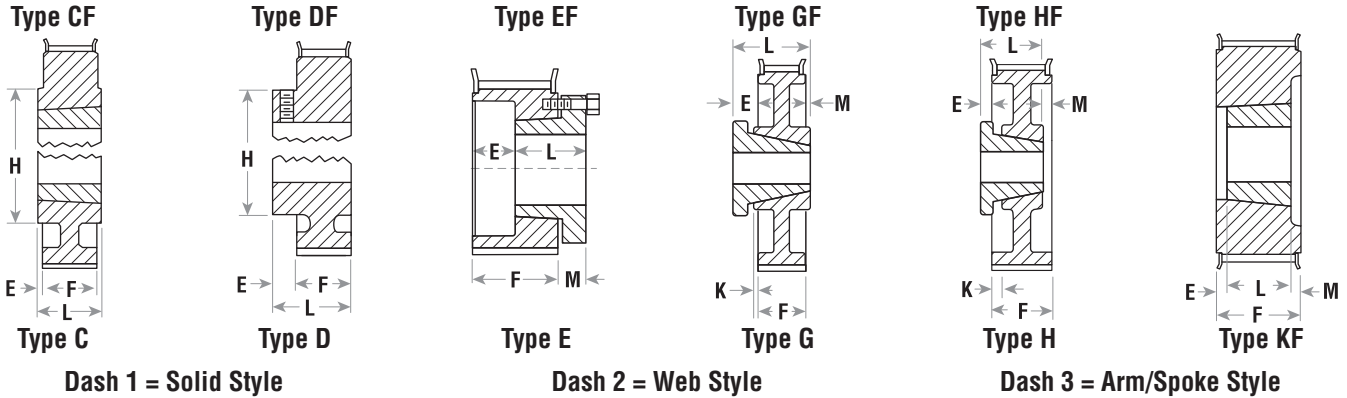
F = 3/4

No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bush	Bore Range		Dimensions				Wt. Less Bush
						Min.	Max.	E	K	L	M	
18	18L050JA	2.149	2.3906	EF-1*	JA	0.5	1.25	0.1875	—	1.0625	0.5	0.40
20	20L050JA	2.387	2.625	EF-1*	JA	0.5	1.25	0.1875	—	1.0625	0.5	0.50
22	22L050JA	2.626	2.875	EF-1*	JA	0.5	1.25	0.1875	—	1.0625	0.5	0.70
24	24L050SH	2.865	3.1094	GF-1+	SH	0.5	1.6875	0.5625	—	1.3125	—	0.70
26	26L050SH	3.104	3.3438	GF-1+	SH	0.5	1.6875	0.5625	—	1.3125	—	1.00
28	28L050SH	3.342	3.5781	GF-1+	SH	0.5	1.6875	0.5625	—	1.3125	—	1.10
30	30L050SDS	3.581	3.8281	GF-1	SDS	0.5	2	0.625	—	1.375	—	1.10
32	32L050SDS	3.820	4.0625	GF-1	SDS	0.5	2	0.625	—	1.375	—	1.40
36	36L050SDS	4.297	4.5313	GF-1	SDS	0.5	2	0.625	—	1.375	—	2.00
40	40L050SDS	4.775	5.0156	GF-1	SDS	0.5	2	0.625	—	1.375	—	2.80
44	44L050SDS	5.252	5.4844	GF-1	SDS	0.5	2	0.625	—	1.375	—	3.60
48	48L050SDS	5.730	6.0156	GF-1	SDS	0.5	2	0.625	—	1.375	—	4.40
60	60L050SD	7.162	—	G-3	SD	0.5	2	0.875	0.25	1.8125	0.25	4.20
72	72L050SD	8.594	—	G-3	SD	0.5	2	0.875	0.25	1.8125	0.25	6.60
84	84L050SD	10.027	—	G-3	SD	0.5	2	0.875	0.25	1.8125	0.25	5.80

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. - .03"

*Reverse mount drilled only
+Bushing Projects 1/16 on Small End.

L050 Taper Bushed
on Page K7



L - 3/8" Pitch

L050 For Belts 1/2" Wide (3/8" Pitch)

Taper Bushed Type

F = 3/4

No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bush	Bore Range		Dimensions				Wt. Less Bush
						Min.	Max.	E	K	L	M	
18	TB18L050	2.149	2.3906	CF-1	1008	0.5	1	0.125	1.875	0.875	—	0.45
20	TB20L050	2.387	2.625	CF-1	1008	0.5	1	0.125	1.6875	0.875	—	0.68
22	TB22L050	2.626	2.875	CF-1	1008	0.5	1	0.125	2	0.875	—	0.90
24	TB24L050	2.865	3.1094	CF-1	1210	0.5	1.25	0.25	2.25	1	—	1.00
26	TB26L050	3.104	3.3438	CF-1	1210	0.5	1.25	0.25	2.5	1	—	1.20
28	TB28L050	3.342	3.5781	CF-1	1610	0.5	1.25	0.25	2.75	1	—	1.40
30	TB30L050	3.581	3.8281	CF-1	1610	0.5	1.625	0.25	2.875	1	—	1.50
32	TB32L050	3.820	4.0625	CF-1	1610	0.5	1.625	0.25	3.0625	1	—	1.90
40	TB40L050	4.775	5.0156	CF-1	2012	0.5	2	0.50	3.6875	1.25	—	2.40
48	TB48L050	5.730	6.0156	CF-1	2012	0.5	2	0.50	3.6875	1.25	—	3.20
60	TB60L050	7.162	—	C-2	2012	0.5	2	0.25	4.375	1.25	0.25	4.90

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. - .03"

L - 3/8" Pitch

L075 For Belts 3/4" Wide (3/8" Pitch)

Minimum Plain Bore

F = 1

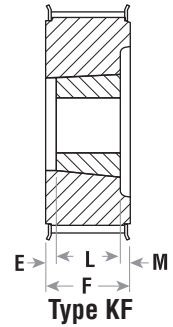
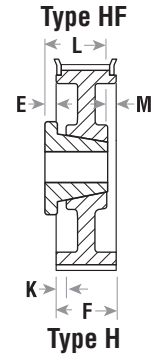
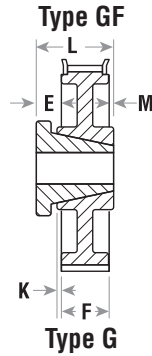
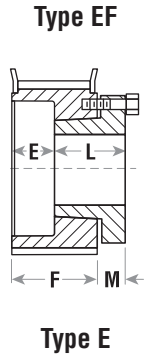
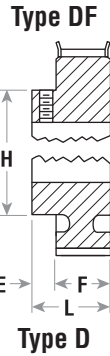
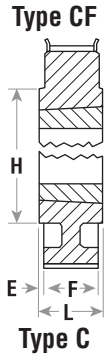
No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bore		Dimensions			Wt.
					Stock	Max.	E	H	L	
12	12L075	1.432	1.6719	DF-1	0.375	0.8125	0.5	1.0625	1.5	0.40
14	14L075	1.671	1.9219	DF-1	0.375	0.875	0.5	1.125	1.5	0.50
16	16L075	1.910	2.1563	DF-1	0.5	1.125	0.625	1.4375	1.625	0.70
18	18L075	2.149	2.3906	DF-1	0.5	1.1875	0.625	1.625	1.625	0.90
20	20L075	2.387	2.625	DF-1	0.5	1.25	0.625	1.6875	1.625	1.50
22	22L075	2.626	2.875	DF-1	0.625	1.5	0.75	2	1.75	1.80
24	24L075	2.865	3.1094	DF-1	0.625	1.625	0.75	2.25	1.75	2.10
26	26L075	3.104	3.3438	DF-1	0.625	1.625	0.875	2.5	1.875	2.80
28	28L075	3.342	3.5781	DF-1	0.625	1.875	1	2.75	2	3.10
30	30L075	3.581	3.8281	DF-1	0.625	1.875	1	2.875	2	3.40
32	32L075	3.820	4.0625	DF-1	0.625	1.875	1	3.0625	2	3.70

Dimensions in inches. Weight in pounds.
Pulley O.D. = P.D. - .03"

L Pulleys 12 - 16 teeth min. plain bore stocked with 1-SS. If keyway is used, reduce max. bore by twice keyway depth.

L 3/8" Pitch

Stock Timing Pulleys



Dash 1 = Solid Style

Dash 2 = Web Style

Dash 3 = Arm/Spoke Style

L - 3/8" Pitch

L075 For Belts 3/4" Wide (3/8" Pitch)

QD Type

F = 1

No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bush	Bore Range		Dimensions				Wt. Less Bush
						Min.	Max.	E	K	L	M	
18	18L075JA	2.149	2.3906	EF-1*	JA	0.5	1.25	0.4375	—	1.0625	0.5	0.50
20	20L075JA	2.387	2.625	EF-1*	JA	0.5	1.25	0.4375	—	1.0625	0.5	0.70
22	22L075JA	2.626	2.875	EF-1*	JA	0.5	1.25	0.4375	—	1.0625	0.5	0.80
24	24L075SH	2.865	3.1094	EF-1*	SH	0.5	1.6875	0.1875	—	1.3125	0.5625	0.80
26	26L075SH	3.104	3.3438	EF-1*	SH	0.5	1.6875	0.1875	—	1.3125	0.5625	1.10
28	28L075SH	3.342	3.5781	EF-1*	SH	0.5	1.6875	0.1875	—	1.3125	0.5625	1.30
30	30L075SDS	3.581	3.8281	EF-1*	SDS	0.5	2	0.25	—	1.375	0.625	1.50
32	32L075SDS	3.82	4.0625	EF-1*	SDS	0.5	2	0.25	—	1.375	0.625	1.70
36	36L075SDS	4.297	4.5313	HF-1	SDS	0.5	2	0.375	0.25	1.375	0	2.30
40	40L075SDS	4.775	5.0156	HF-1	SDS	0.5	2	0.375	0.25	1.375	0	3.10
44	44L075SDS	5.252	5.4844	HF-1	SDS	0.5	2	0.375	0.25	1.375	0	4.00
48	48L075SDS	5.730	6.0156	HF-1	SDS	0.5	2	0.375	0.25	1.375	0	4.60
60	60L075SD	7.162	—	G-3	SD	0.5	2	0.6875	0.125	1.8125	0.125	4.70
72	72L075SD	8.594	—	G-3	SD	0.5	2	0.6875	0.125	1.8125	0.125	6.50
84	84L075SD	10.027	—	G-3	SD	0.5	2	0.6875	0.125	1.8125	0.125	6.30

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. - .03"
*Reverse mount only

L - 3/8" Pitch

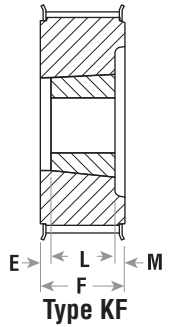
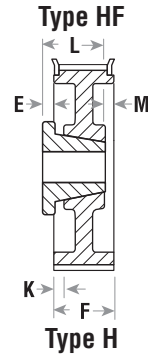
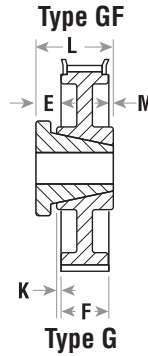
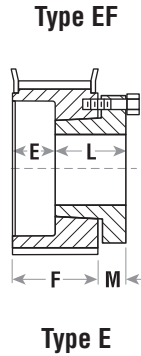
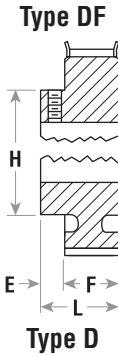
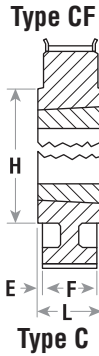
L075 For Belts 3/4" Wide (3/8" Pitch)

Taper Bushed Type

F = 1

No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bush	Bore Range		Dimensions				Wt. Less Bush
						Min.	Max.	E	K	L	M	
18	TB18L075	2.149	2.3906	KF-1	1008	0.5	1	0.125	—	0.875	—	0.50
20	TB20L075	2.387	2.625	KF-1	1008	0.5	1	0.125	—	0.875	—	0.70
22	TB22L075	2.626	2.875	KF-1	1008	0.5	1	0.125	—	0.875	—	1.10
24	TB24L075	2.865	3.1094	KF-1	1210	0.5	1.25	—	—	1	—	0.90
26	TB26L075	3.104	3.3438	KF-1	1210	0.5	1.25	—	—	1	—	1.30
28	TB28L075	3.342	3.5781	KF-1	1610	0.5	1.625	—	—	1	—	1.30
30	TB30L075	3.581	3.8281	KF-1	1610	0.5	1.625	—	—	1	—	1.60
32	TB32L075	3.820	4.0625	KF-1	1610	0.5	1.625	—	—	1	—	1.80
40	TB40L075	4.775	5.0156	CF-1	2012	0.5	2	0.25	3.9375	1.25	—	3.60
48	TB48L075	5.730	6.0156	CF-1	2012	0.5	2	0.25	3.9375	1.25	—	5.40
60	TB60L075	7.162	—	C-1	2012	0.5	2	0.125	4.375	1.25	0.125	7.90

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. - .03"



Dash 1 = Solid Style

Dash 2 = Web Style

Dash 3 = Arm/Spoke Style

L - 3/8" Pitch

L100 For Belts 1" Wide (3/8" Pitch)

Minimum Plain Bore

F = 1-1/4

No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bore Range		Dimensions			Wt. Less Bush
					Min.	Max.	E	H	L	
14	14L100	1.671	1.9219	DF-1	0.375	0.875	0.500	1.1250	1.75	0.60
16	16L100	1.910	2.1563	DF-1	0.5	1.125	0.625	1.4375	1.875	0.80
17	17L100	2.029	2.2813	DF-1	0.5	1.125	0.625	1.5	1.875	1.00
18	18L100	2.149	2.3906	DF-1	0.5	1.1875	0.625	1.625	1.875	1.10
19	19L100	2.268	2.375	DF-1	0.5	1.1875	0.625	1.625	1.875	1.40
20	20L100	2.387	2.625	DF-1	0.5	1.1875	0.625	1.6875	1.875	1.75
21	21L100	2.507	2.75	DF-1	0.625	1.3125	0.6875	1.875	1.875	1.80
22	22L100	2.626	2.875	DF-1	0.625	1.5	0.75	2	2	2.00
24	24L100	2.865	3.1094	DF-1	0.625	1.625	0.75	2.25	2	2.50
26	26L100	3.104	3.3438	DF-1	0.625	1.625	0.875	2.5	2.125	3.30
28	28L100	3.342	3.5781	DF-1	0.625	1.875	1	2.75	2.25	3.60
30	30L100	3.581	3.8281	DF-1	0.625	1.875	1	2.875	2.25	4.00
32	32L100	3.820	4.0625	DF-1	0.625	1.875	1	3.0625	2.25	4.40

Dimensions in inches. Weight in pounds

Pulley O.D. = P.D. - .03"

L Pulleys 14 - 16 teeth min. plain bore stocked with 1-S.S. If keyway is used, reduce max. bore by twice keyway depth.

L - 3/8" Pitch

L100 For Belts 1" Wide (3/8" Pitch)

QD Type

F = 1-1/4

No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bush	Bore Range		Dimensions				Wt. Less Bush
						Min.	Max.	E	K	L	M	
18	18L100JA	2.149	2.3906	EF-1*	JA	0.5	1.25	0.6875	—	1.0625	0.5	0.70
20	20L100JA	2.387	2.625	EF-1*	JA	0.5	1.25	0.6875	—	1.0625	0.5	0.90
22	22L100JA	2.626	2.875	EF-1*	JA	0.5	1.25	0.6875	—	1.0625	0.5	1.00
24	24L100SH	2.865	3.1094	EF-1*	SH	0.5	1.6875	0.4375	—	1.3125	0.5625	1.00
26	26L100SH	3.104	3.3438	EF-1*	SH	0.5	1.6875	0.4375	—	1.3125	0.5625	1.30
28	28L100SH	3.342	3.5781	EF-1*	SH	0.5	1.6875	0.4375	—	1.3125	0.5625	1.70
30	30L100SDS	3.581	3.8281	EF-1*	SDS	0.5	2	0.5	—	1.375	0.625	2.00
32	32L100SDS	3.820	4.0625	EF-1*	SDS	0.5	2	0.5	—	1.375	0.625	2.10
36	36L100SDS	4.297	4.5313	HF-1	SDS	0.5	2	0.125	0.5	1.375	0	2.60
40	40L100SDS	4.775	5.0156	HF-1	SDS	0.5	2	0.125	0.5	1.375	0	3.40
44	44L100SDS	5.252	5.4844	HF-1	SDS	0.5	2	0.125	0.5	1.375	0	4.20
48	48L100SDS	5.730	6.0156	HF-1	SDS	0.5	2	0.125	0.5	1.375	0	5.10
60	60L100SD	7.162	—	G-3	SD	0.5	2	0.625	0	1.8125	0	6.00
72	72L100SD	8.594	—	G-3	SD	0.5	2	0.625	0	1.8125	0	8.00
84	84L100SD	10.027	—	G-3	SD	0.5	2	0.625	0	1.8125	0	9.20

Dimensions in inches. Weight in pounds

Pulley O.D. = P.D. - .03"

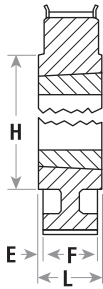
*Reverse mount only

L 3/8" Pitch

Stock Timing Pulleys

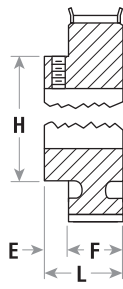


Type CF



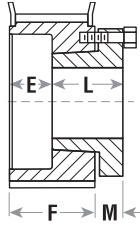
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Type DF



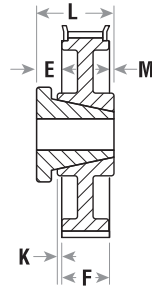
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Type EF



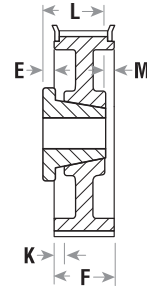
Type E

Type GF

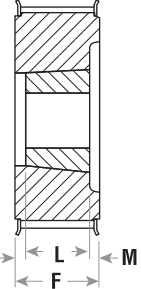


Type G

Type HF



Type H



Type KF

Dash 1 = Solid Style

Dash 2 = Web Style
"F" type description indicates flanged.

Dash 3 = Arm/Spoke Style

L - 3/8" Pitch

L100 For Belts 1" Wide (3/8" Pitch)

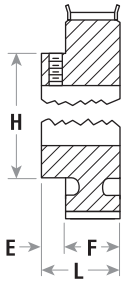
Taper Bushed Type

F = 1-1/4

No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bush	Bore Range		Dimensions				Wt. Less Bush
						Min.	Max.	E	K	L	M	
18	TB18L100	2.149	2.3906	KF-1	1008	0.5	1	3/8	—	0.875	—	0.70
20	TB20L100	2.387	2.625	KF-1	1008	0.5	1	3/8	—	0.875	—	1.00
22	TB22L100	2.626	2.875	KF-1	1008	0.5	1	3/8	—	0.875	—	1.30
24	TB24L100	2.865	3.1094	KF-1	1210	0.5	1.25	1/4	—	1	—	1.30
26	TB26L100	3.104	3.3438	KF-1	1210	0.5	1.25	1/4	—	1	—	1.70
28	TB28L100	3.342	3.5781	KF-1	1610	0.5	1.625	1/4	—	1	—	1.70
30	TB30L100	3.581	3.8281	KF-1	1610	0.5	1.625	1/4	—	1	—	2.20
32	TB32L100	3.820	4.0625	KF-1	1610	0.5	1.625	1/4	—	1	—	2.70
40	TB40L100	4.775	5.0156	KF-1	2012	0.5	2	1/16	—	1.25	—	3.60
48	TB48L100	5.730	6.0156	KF-1	2012	0.5	2	1/16	—	1.25	—	5.10
60	TB60L100	7.162	—	C-2	2012	0.5	2	—	—	1.25	—	6.00

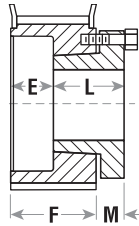
Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. - .03"

Type DF



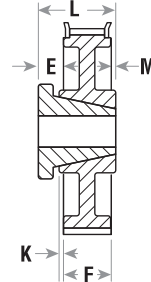
Type D

Type EF



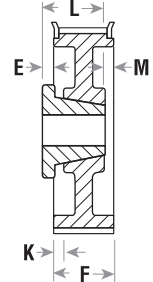
Type E

Type GF



Type G

Type HF



Type H

H - 1/2" Pitch

H100 For Belts 3/4" and 1" Wide (1/2" Pitch)

Minimum Plain Bore

F = 1-5/16

No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bore Range		Dimensions			Wt. Less Bush
					Min.	Max.	E	H	L	
14	14H100	2.228	2.4844	DF-1	0.625	1	0.625	1.5	1.9375	1.4
16	16H100	2.546	2.7969	DF-1	0.625	1.25	0.6875	2	2	2.0
18	18H100	2.865	3.1094	DF-1	0.625	1.5	0.6875	2.25	2	2.8
20	20H100	3.183	3.4375	DF-1	0.625	1.625	0.875	2.5	2.1875	3.4
21	21H100	3.342	3.5625	DF-1	0.75	1.6875	1	2.625	2.25	3.8
22	22H100	3.501	3.75	DF-1	0.75	1.875	1	2.875	2.3125	4.3
24	24H100	3.820	4.0156	DF-1	0.75	2.125	1	3.125	2.3125	5.3
26	26H100	4.138	4.3906	DF-1	0.75	2.5	1.125	3.5	2.4375	6.7
28	28H100	4.456	4.7031	DF-1	0.75	2.625	1.125	3.625	2.4375	8.0

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. - .054"

H - 1/2" Pitch

H100 For Belts 3/4" and 1" Wide (1/2" Pitch)

QD Type

F = 1-5/16

No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bush	Bore Range	Dimensions					Wt. Less Bush
							E	H	K	L	M	
14	14H100JA	2.228	2.4844	EF-1*	JA	1/2 - 1.25	0.75	—	—	1.0625	0.5	1.0
16	16H100JA	2.546	2.7969	EF-1*	JA	1/2 - 1.25	0.75	—	—	1.0625	0.5	1.5
18	18H100SH	2.865	3.1094	EF-1*	SH	1/2 - 1.6875	0.5625	—	—	1.3125	0.5625	1.2
20	20H100SH	3.183	3.4375	EF-1*	SH	1/2 - 1.6875	0.5625	—	—	1.3125	0.5625	1.2
22	22H100SDS	3.501	3.75	EF-1*	SDS	1/2 - 2	0.5625	—	—	1.375	0.625	1.4
24	24H100SDS	3.820	4.0156	EF-1*	SDS	1/2 - 2	0.5625	—	—	1.375	0.625	1.7
26	26H100SDS	4.138	4.3906	HF-1	SDS	1/2 - 2	0.0625	—	0.5625	1.375	—	2.0
28	28H100SDS	4.456	4.7031	HF-1	SDS	1/2 - 2	0.0625	—	0.5625	1.375	—	2.6
30	30H100SD	4.775	5.0156	GF-1	SD	1/2 - 2	0.6250	—	—	1.8125	—	3.0
32	32H100SK	5.093	5.3281	GF-1	SK	1/2 - 2.625	0.6875	—	—	1.9375	—	4.9
36	36H100SK	5.730	5.9531	GF-1	SK	1/2 - 2.625	0.6875	—	—	1.9375	—	5.6
40	40H100SK	6.366	6.5781	GF-1	SK	1/2 - 2.625	0.6875	—	—	1.9375	—	8.2
44	44H100SK	7.003	7.25	GF-1	SK	1/2 - 2.625	0.6875	—	—	1.9375	—	10.0
48	48H100SK	7.639	8.0156	GF-2	SK	1/2 - 2.625	0.6875	—	—	1.9375	—	12.5
60	60H100SF	9.549	—	H-2	SF	1/2 - 2.9375	0.6875	—	—	2.0625	—	10.9
72	72H100SF	11.459	—	H-3	SF	1/2 - 2.9375	0.6875	—	—	2.0625	—	14.0
84	84H100SF	13.369	—	H-3	SF	1/2 - 2.9375	0.6875	5.125	—	2.0625	—	20.0
96	96H100SF	15.279	—	H-3	SF	1/2 - 2.9375	0.6875	5.125	—	2.0625	—	27.0
120	120H100SF	19.099	—	H-3	SF	1/2 - 2.9375	0.6875	5.125	—	2.0625	—	38.0

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. - .054"

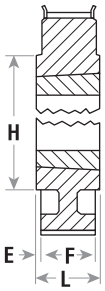
*Reverse mount only

H 1/2" Pitch

Stock Timing Pulleys

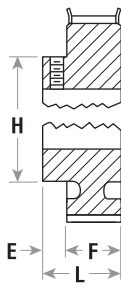


Type CF



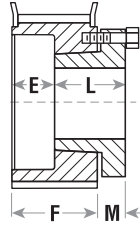
Type C

Type DF



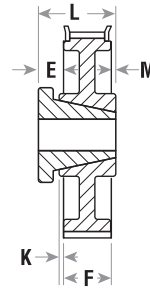
Type D

Type EF



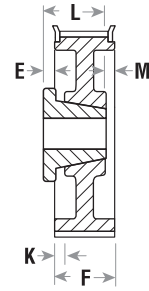
Type E

Type GF



Type G

Type HF



Type H

Dash 1 = Solid Style

Dash 2 = Web Style

Dash 3 = Arm/Spoke Style

"F" type description indicates flanged.

H - 1/2" Pitch

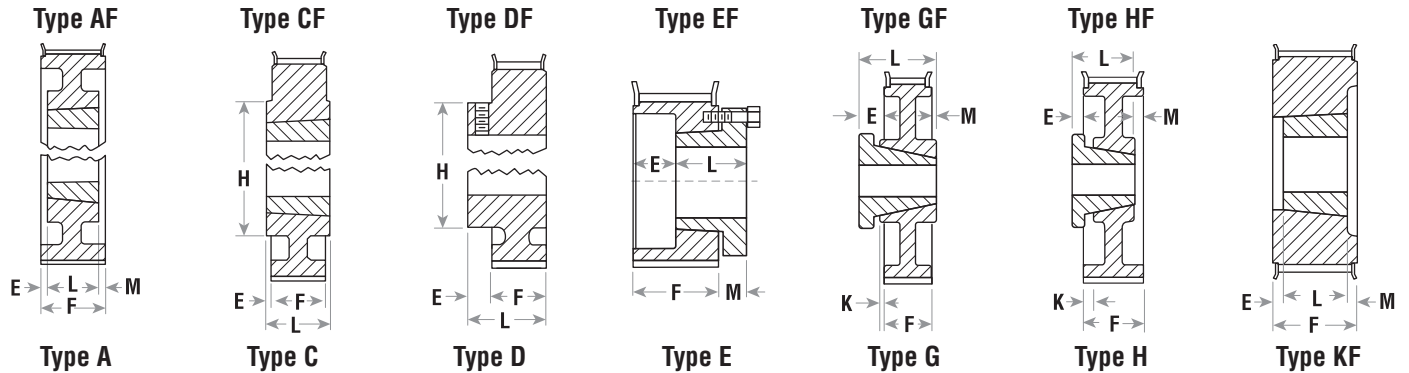
H100 For Belts 3/4" and 1" Wide (1/2" Pitch)

Taper Bushed Type

F = 1-5/16

No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bush	Bore Range	Dimensions				Wt. Less Bush
							E	H	L	M	
14	TB14H100	2.228	2.4844	KF-1	1008	0.5 - 1	0.4375	—	0.875	—	0.80
16	TB16H100	2.546	2.7969	KF-1	1008	0.5 - 1	0.4375	—	0.875	—	1.30
18	TB18H100	2.865	3.1094	KF-1	1210	0.5 - 1.25	0.3125	—	1	—	1.20
20	TB20H100	3.183	3.4375	KF-1	1210	0.5 - 1.25	0.3125	—	1	—	1.70
22	TB22H100	3.501	3.7500	KF-1	1610	0.5 - 1.625	0.3125	—	1	—	1.80
24	TB24H100	3.820	4.0156	KF-1	1610	0.5 - 1.625	0.3125	—	1	—	2.30
26	TB26H100	4.138	4.3906	KF-1	2012	0.5 - 2	0.0625	—	1.25	—	2.60
28	TB28H100	4.456	4.7031	KF-1	2012	0.5 - 2	0.0625	—	1.25	—	2.80
30	TB30H100	4.775	5.0156	KF-1	2012	0.5 - 2	0.0625	—	1.25	—	4.20
32	TB32H100	5.093	5.3281	CF-1	2517	0.5 - 2.5	0.4375	4.4375	3.25	—	4.30
40	TB40H100	6.366	6.5781	CF-1	2517	0.5 - 2.5	0.4375	4.4375	3.25	—	7.80
48	TB48H100	7.639	8.0156	CF-1	2517	0.5 - 2.5	0.4375	4.4375	3.25	—	12.10
60	TB60H100	9.549	—	C-2	3020	0.875 - 3	0.3438	6.25	2	0.3438	10.30

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. - .054"



Dash 1 = Solid Style

Dash 2 = Web Style

Dash 3 = Arm/Spoke Style

"F" type description indicates flanged.

H - 1/2" Pitch

H150 For Belts 1-1/2" Wide (1/2" Pitch)

Minimum Plain Bore

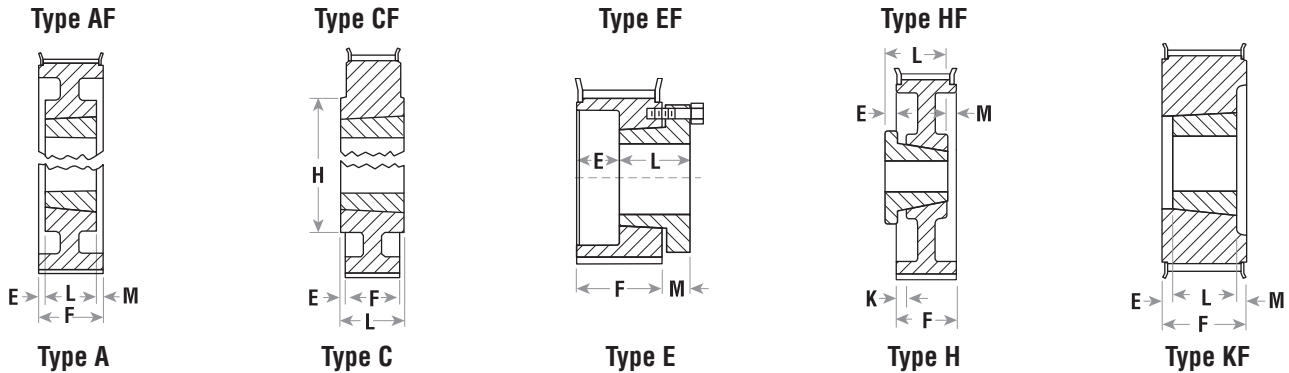
F = 1-13/16

No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bore		Dimensions			Wt. Less Bush
					Min.	Max.	E	H	L	
14	14H150	2.228	2.4844	DF-1	0.75	1	0.625	1.5	2.4375	1.8
16	16H150	2.546	2.7969	DF-1	0.75	1.25	0.75	2	2.5625	2.5
18	18H150	2.865	3.1094	DF-1	0.75	1.5	0.75	2.25	2.5625	3.3
19	19H150	3.024	3.25	DF-1	0.75	1.5625	0.875	2.25	2.625	3.9
20	20H150	3.183	3.4375	DF-1	0.75	1.625	0.875	2.5	2.6875	4.3
21	21H150	3.342	3.5625	DF-1	0.75	1.6875	0.9375	2.5	2.75	5.3
22	22H150	3.501	3.75	DF-1	0.75	1.875	1	2.875	2.8125	5.4
24	24H150	3.820	4.0625	DF-1	0.75	2.125	1	3.125	2.8125	6.5
26	26H150	4.138	4.7813	DF-1	0.75	2.5	1	3.5	2.8125	8.4

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. - .054"

H 1/2" Pitch

Stock Timing Pulleys



Dash 1 = Solid Style Dash 2 = Web Style Dash 3 = Arm/Spoke Style "F" type description indicates flanged.

H - 1/2" Pitch

H150 For Belts 1-1/2" Wide (1/2" Pitch)

QD Type

F = 1-13/16

No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bush	Bore Range	Dimensions				Wt. Less Bush
							E	K	L	M	
14	14H150JA	2.228	2.4844	EF-1*	JA	0.5 - 1.25	1.25	—	1.0625	0.5	1.5
16	16H150JA	2.546	2.7969	EF-1*	JA	0.5 - 1.25	1.25	—	1.0625	0.5	2.0
18	18H150SH	2.865	3.1094	EF-1*	SH	0.5 - 1.6875	1	—	1.3125	0.5625	1.3
20	20H150SH	3.183	3.4375	EF-1*	SH	0.5 - 1.6875	1	—	1.3125	0.5625	1.8
22	22H150SD	3.501	3.75	EF-1*	SD	0.5 - 2	0.5625	—	1.8125	0.625	2.0
24	24H150SD	3.820	4.0625	EF-1*	SD	0.5 - 2	0.5625	—	1.8125	0.625	2.6
26	26H150SD	4.138	4.7813	HF-1	SD	0.5 - 2	0.0625	0.5625	1.8125	0.0625	3.0
28	28H150SD	4.456	4.7031	HF-1	SD	0.5 - 2	0.0625	0.5625	1.8125	0.0625	4.0
30	30H150SD	4.775	5.0156	HF-1	SD	0.5 - 2	0.0625	0.5625	1.8125	0.0625	4.9
32	32H150SK	5.093	5.3281	HF-1	SK	0.5 - 2.625	0.125	0.5625	1.9375	—	5.8
36	36H150SK	5.730	5.9531	HF-1	SK	0.5 - 2.625	0.125	0.5625	1.9375	—	7.0
40	40H150SK	6.366	6.5781	HF-1	SK	0.5 - 2.625	0.125	0.5625	1.9375	—	9.2
44	44H150SK	7.003	7.25	HF-1	SK	0.5 - 2.625	0.125	0.5625	1.9375	—	11.0
48	48H150SK	7.639	8.0156	HF-2	SK	0.5 - 2.625	0.125	0.5625	1.9375	—	13.7
60	60H150SF	9.549	—	H-2	SF	0.5 - 2.9375	0.4063	0.2813	2.0625	0.2813	12.5
72	72H150SF	11.459	—	H-3	SF	0.5 - 2.9375	0.4063	0.2813	2.0625	0.2813	17.0
84	84H150SF	13.369	—	H-3	SF	0.5 - 2.9375	0.4063	0.2813	2.0625	0.2813	21.5
96	96H150SF	15.279	—	H-3	SF	0.5 - 2.9375	0.4063	0.2813	2.0625	0.2813	31.0
120	120H150SF	19.099	—	H-3	SF	0.5 - 2.9375	0.4063	0.2813	2.0625	0.2813	40.0

Dimensions in inches. Weight in pounds. Pulley O.D. = P.D. - .054"

*Reverse mount only

H - 1/2" Pitch

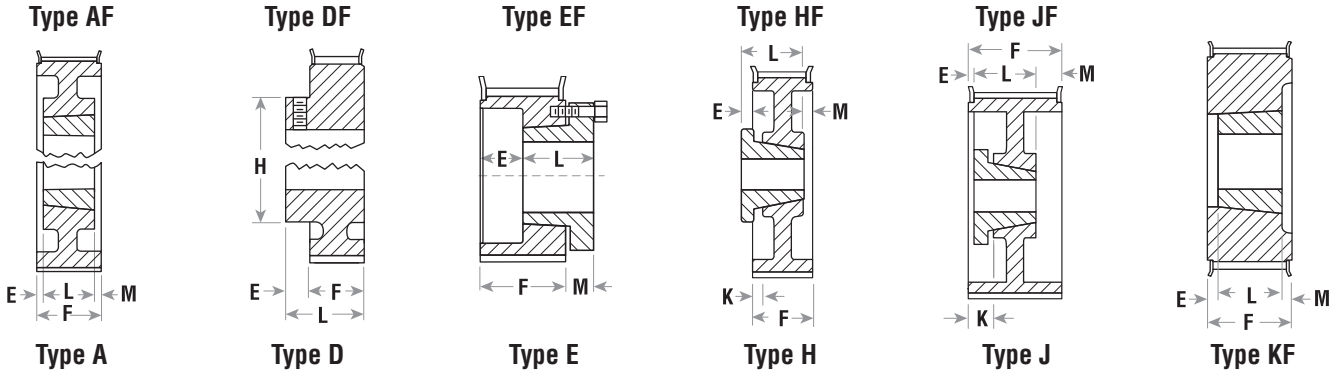
H150 For Belts 1-1/2" Wide (1/2" Pitch)

Taper Bushed Type

F = 1-13/16

No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bush	Bore Range	Dimensions				Wt. Less Bush	
							E	H	K	L		M
14	TB14H150	2.228	2.4844	KF-1	1008	0.5 - 1	0.4688	—	—	0.875	0.4688	1.0
16	TB16H150	2.546	2.7969	KF-1	1008	0.5 - 1	0.4688	—	—	0.875	0.4688	1.5
18	TB18H150	2.865	3.1094	KF-1	1215	0.5 - 1.25	0.3125	—	—	1.5	—	1.6
20	TB20H150	3.183	3.4375	KF-1	1215	0.5 - 1.25	0.3125	—	—	1.5	—	2.2
22	TB22H150	3.501	3.75	KF-1	1615	0.5 - 1.625	0.3125	—	—	1.5	—	2.5
24	TB24H150	3.820	4.0625	KF-1	2012	0.5 - 2	0.5625	—	—	1.25	—	2.7
26	TB26H150	4.138	4.7813	KF-1	2012	0.5 - 2	0.5625	—	—	1.25	—	3.2
28	TB28H150	4.456	4.7031	KF-1	2012	0.5 - 2	0.5625	—	—	1.25	—	4.1
30	TB30H150	4.775	5.0156	KF-1	2012	0.5 - 2	0.5625	—	—	1.25	—	5.1
32	TB32H150	5.093	5.3281	KF-1	2517	0.5 - 2.5	0.0625	—	—	1.75	—	5.6
40	TB40H150	6.366	6.5781	KF-1	2517	0.5 - 2.5	0.0625	—	—	1.75	—	8.6
48	TB48H150	7.639	8.0156	AF-1	2517	0.5 - 2.5	—	—	0.0625	1.75	0.0625	13.6
60	TB60H150	9.549	—	C-2	3020	0.88 - 3	0.0938	6.25	—	2	0.0938	12.3

Dimensions in inches. Weight in pounds. Pulley O.D. = P.D. - .054"



Dash 1 = Solid Style

Dash 2 = Web Style

Dash 3 = Arm/Spoke Style

"F" type description indicates flanged.

H - 1/2" Pitch

H200 For Belts 2" Wide (1/2" Pitch)

Minimum Plain Bore

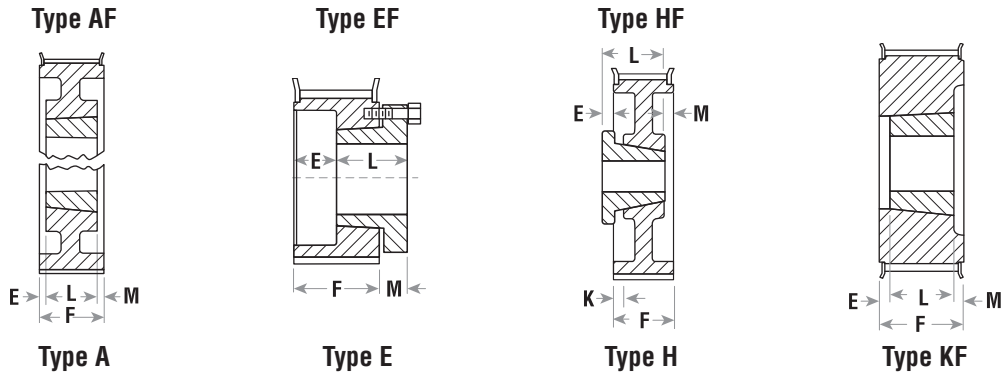
F = 2-11/32

No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bush		Dimensions			Wt. Less Bush
					Stk.	Max.	E	H	L	
14	14H200	2.228	2.375	DF-1	0.75	1	0.625	1.5	2.9688	2.2
16	16H200	2.546	2.7969	DF-1	0.75	1.25	0.75	2	3.0938	3.1
18	18H200	2.865	3.1094	DF-1	0.75	1.5	0.75	2	3.0938	3.7
19	19H200	3.024	3.2500	DF-1	0.75	1.5625	0.875	2.25	3.2188	3.9
20	20H200	3.183	3.4375	DF-1	0.75	1.625	0.875	2.5	3.2188	4.9
22	22H200	3.501	3.75	DF-1	1	1.875	1	2.875	3.3438	6.3
24	24H200	3.820	4.0625	DF-1	1	2.125	1	3.125	3.3438	7.5
26	26H200	4.138	4.7813	DF-1	1	2.5	1.125	3.5	3.4688	9.5

Dimensions in inches. Weight in pounds. Pulley O.D. = P.D. - .054"

H 1/2" Pitch

Stock Timing Pulleys



Dash 1 = Solid Style Dash 2 = Web Style Dash 3 = Arm/Spoke Style "F" type description indicates flanged.

H - 1/2" Pitch

H200 For Belts 2" Wide (1/2" Pitch)

QD Type

F = 2-11/16

No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bush	Bore Range	Dimensions				Wt. Less Bush
							E	K	L	M	
16	16H200JA	2.546	2.7969	EF-1*	JA	0.5 - 1.25	1.7813	—	1.0625	0.5	2.6
18	18H200SH	2.865	3.1094	EF-1*	SH	0.5 - 1.6875	1.5313	—	1.3125	0.5625	1.6
20	20H200SH	3.183	3.4375	EF-1*	SH	0.5 - 1.6875	1.5313	—	1.3125	0.5625	2.2
22	22H200SD	3.501	3.75	EF-1*	SD	0.5 - 2	1.0938	—	1.8125	0.6250	2.5
24	24H200SD	3.820	4.0625	EF-1*	SD	0.5 - 2	1.0938	—	1.8125	0.6250	3.0
26	26H200SD	4.138	4.7813	HF-1	SD	0.5 - 2	0.0781	0.5469	1.8125	0.5469	3.9
28	28H200SD	4.456	4.7031	HF-1	SD	0.5 - 2	0.0781	0.5469	1.8125	0.5469	4.7
30	30H200SD	4.775	5.0156	HF-1	SD	0.5 - 2	0.0781	0.5469	1.8125	0.5469	5.7
32	32H200SK	5.093	5.3281	HF-1	SK	0.5 - 2.625	0.1406	0.5469	1.9375	0.5469	6.7
36	36H200SK	5.730	5.9531	HF-1	SK	0.5 - 2.625	0.1406	0.5469	1.9375	0.5469	8.0
40	40H200SK	6.366	6.5781	HF-1	SK	0.5 - 2.625	0.1406	0.5469	1.9375	0.5469	10.2
44	44H200SK	7.003	7.25	HF-1	SK	0.5 - 2.625	0.1406	0.5469	1.9375	0.5469	12.5
48	48H200SF	7.639	8.0156	HF-2	SF	0.5 - 2.9375	0.1406	0.5469	2.0625	0.5469	14.1
60	60H200SF	9.549	—	H-2	SF	0.5 - 2.9375	0.1406	0.5469	2.0625	0.5469	14.6
72	72H200SF	11.459	—	H-2	SF	0.5 - 2.9375	0.1406	0.5469	2.0625	0.5469	21.0
84	84H200SF	13.369	—	H-3	SF	0.5 - 2.9375	0.1406	0.5469	2.3125	0.5469	23.0
96	96H200E	15.279	—	H-3	E	0.875 - 3.5	0.5156	0.3594	2.625	0.3594	34.0
120	120H200E	19.099	—	H-3	E	0.875 - 3.5	0.5156	0.3594	2.625	0.3594	42.0

Dimensions in inches. Weight in pounds. Pulley O.D. = P.D. - .054"

*Reverse mount only

H - 1/2" Pitch

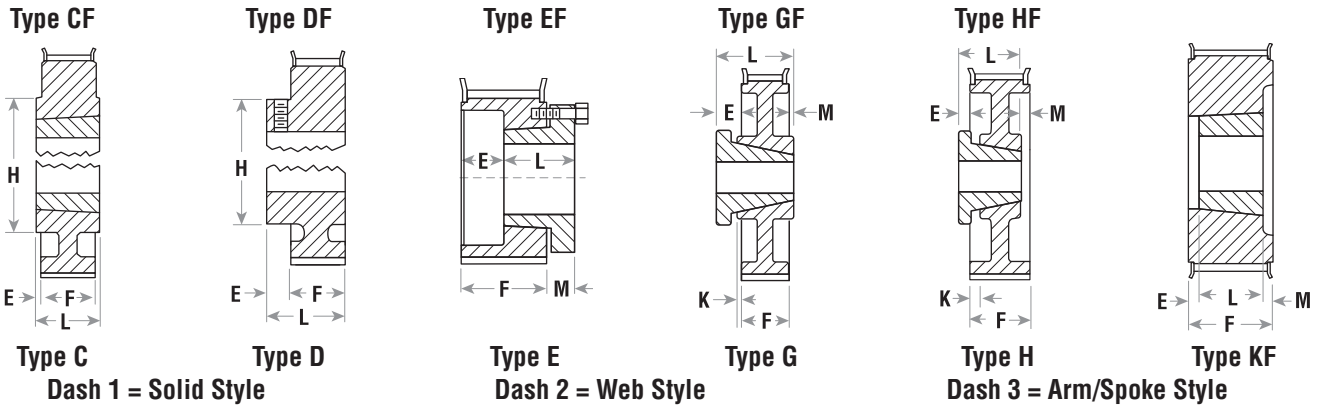
H200 For Belts 1-1/2" Wide (1/2" Pitch)

Taper Bushed Type

F = 2-11/16

No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bush	Bore Range	Dimensions			Wt. Less Bush
							E	L	M	
16	TB16H200	2.546	2.7969	KF-1	1008	1/2 - 1	0.75	0.875	0.7188	1.9
18	TB18H200	2.865	3.1094	KF-1	1215	1/2 - 1.25	0.4375	1.5	0.4063	1.8
20	TB20H200	3.183	3.4375	KF-1	1215	1/2 - 1.25	0.4219	1.5	0.4219	2.6
22	TB22H200	3.501	3.75	KF-1	1615	1/2 - 1.625	0.4219	1.5	0.4219	2.8
24	TB24H200	3.820	4.0625	KF-1	2012	1/2 - 2	0.5469	1.25	0.5469	2.8
26	TB26H200	4.138	4.7813	KF-1	2012	1/2 - 2	0.5469	1.25	0.5469	3.6
28	TB28H200	4.456	4.7031	KF-1	2012	1/2 - 2	0.5469	1.25	0.5469	5.1
30	TB30H200	4.775	5.0156	KF-1	2012	1/2 - 2	0.4063	1.25	—	7.0
32	TB32H200	5.093	5.3281	KF-1	2517	1/2 - 2.5	0.5938	1.75	—	8.5
40	TB40H200	6.366	6.5781	KF-1	2517	1/2 - 2.5	0.5938	1.75	—	9.9
48	TB48H200	7.639	8.0156	KF-1	3020	7/8 - 3	0.3438	2	—	14.3
60	TB60H200	9.549	—	A-2	3020	7/8 - 3	0.1719	2	0.1719	15.3

Dimensions in inches. Weight in pounds. Pulley O.D. = P.D. - .054"



H - 1/2" Pitch

H300 For Belts 3" Wide (1/2" Pitch)

Minimum Plain bore

F = 3-3/8

No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bore		Dimensions			Wt. Less Bush
					Stk.	Max.	E	H	L	
16	16H300	2.546	2.80	DF-1	0.75	1.25	0.75	2	4.125	4.2

Dimensions in inches. Weight in pounds. Pulley O.D. = P.D. - .054"

H - 1/2" Pitch

H300 For Belts 3" Wide (1/2" Pitch)

QD Type

F = 3-3/8

No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bush	Bore Range	Dimensions				Wt. Less Bush
							E	K	L	M	
22	22H300SD	3.501	3.75	EF-1*	SD	0.5 - 2	2.125	—	1.8125	0.625	4.1
24	24H300SD	3.820	4.0625	EF-1*	SD	0.5 - 2	2.125	—	1.8125	0.625	4.1
26	26H300SD	4.138	4.3906	JF-1	SD	0.5 - 2	0.4375	1.0625	1.8125	1.0625	5.0
28	28H300SD	4.456	4.7031	JF-1	SD	0.5 - 2	0.4375	1.0625	1.8125	1.0625	6.0
30	30H300SD	4.775	5.0156	JF-1	SD	0.5 - 2	0.4375	1.0625	1.8125	1.0625	7.2
32	32H300SK	5.093	5.3281	JF-1	SK	0.5 - 2.625	0.375	1.0625	1.9375	1.0625	8.4
36	36H300SK	5.730	5.9531	JF-1	SK	0.5 - 2.625	0.375	1.0625	1.9375	1.0625	10.0
40	40H300SK	6.366	6.5781	JF-1	SK	0.5 - 2.625	0.375	1.0625	1.9375	1.0625	12.2
44	44H300SK	7.003	7.25	JF-1	SK	0.5 - 2.625	0.375	1.0625	1.9375	1.0625	15.5
48	48H300SF	7.639	8.0156	JF-2	SF	0.5 - 2.9375	0.375	1.0625	2.0625	1.0625	16.6
60	60H300SF	9.549	—	J-2	SF	0.5 - 2.9375	0.375	1.0625	2.0625	1.0625	17.9
72	72H300SF	11.459	—	J-2	SF	0.5 - 2.9375	0.1875	1.0625	2.0625	1.0625	23.0
84	84H300SF	13.369	—	J-2	SF	0.5 - 2.9375	0.1875	1.0625	2.0625	1.0625	30.0
96	96H300E	15.2790	—	H-3	E	0.875 - 3.5	-	0.875	2.625	0.875	38.0
120	120H300E	19.099	—	H-3	E	0.875 - 3.5	-	0.875	2.625	0.875	51.0

Dimensions in inches. Weight in pounds. Pulley O.D. = P.D. - .054"

*Reverse mount only

H - 1/2" Pitch

H300 For Belts 3" Wide (1/2" Pitch)

Taper Bushed Type

F = 3-3/8

No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bush	Bore Range	Dimensions			Wt. Less Bush
							E	L	M	
18	TB18H300	2.865	3.1094	KF-1	1215	0.5 - 1.25	0.9375	1.5	0.9375	2.6
20	TB20H300	3.183	3.4375	KF-1	1215	0.5 - 1.25	0.9375	1.5	0.9375	3.9
22	TB22H300	3.501	3.75	KF-1	1615	0.5 - 1.625	0.9375	1.5	0.9375	4.0
24	TB24H300	3.820	4.0625	KF-1	2012	0.5 - 2	1.0625	1.25	1.0625	4.3
26	TB26H300	4.138	4.3906	KF-1	2012	0.5 - 2	1.0625	1.25	1.0625	5.4
28	TB28H300	4.456	4.7031	KF-1	2012	0.5 - 2	1.0625	1.25	1.0625	6.8
30	TB30H300	4.775	5.0156	KF-1	2012	0.5 - 2	1.0625	1.25	1.0625	7.5
32	TB32H300	5.093	5.3281	KF-1	2517	0.5 - 2.5	0.8125	1.75	0.8125	7.4
40	TB40H300	6.366	6.5781	KF-1	2517	0.5 - 2.5	0.8125	1.75	0.8125	12.1
48	TB48H300	7.639	8.0156	KF-1	3020	0.875 - 3	0.6875	2	0.6875	16.3
60	TB60H300	9.549	—	A-2	3020	0.875 - 3	0.5625	2	0.5625	17.3

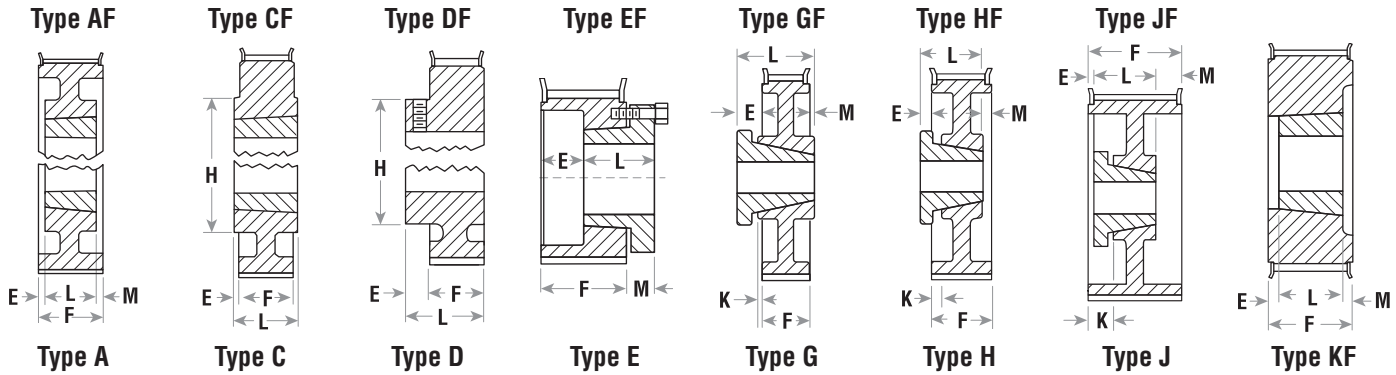
Dimensions in inches. Weight in pounds. Pulley O.D. = P.D. - .054"

*Reverse mount only

XH

7/8" Pitch

Stock Timing Pulleys



Dash 1 = Solid Style Dash 2 = Web Style Dash 3 = Arm/Spoke Style "F" type description indicates flanged.

XH - 7/8" Pitch

XH200 For Belts 2" Wide (7/8" Pitch)

Minimum Plain Bore

F = 2-9/16

No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bore		Dimensions			Wt. Less Bush
					Stk.	Max.	E	H	L	
18	18XH200	5.013	5.5781	DF-1	1	2.625	0.875	3.6875	3.4375	12.0
20	20XH200	5.570	6.1094	DF-1	1	3.25	1	4.125	3.5625	16.0

Dimensions in inches. Weight in pounds. Pulley O.D. = P.D. - .11"

XH - 7/8" Pitch

XH200 For Belts 2" Wide (7/8" Pitch)

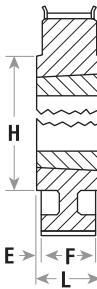
Taper Bushed Type

F = 2-9/16

No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bush	Bore Range	Dimensions				Wt. Less Bush
							E	H	L	M	
22	TB22XH200	6.127	6.5938	KF-1	2517	0.5 - 2.5	0.8125	—	1.75	—	10.6
24	TB24XH200	6.685	7.2813	KF-1	3020	0.875 - 3	0.5625	—	2	—	11.3
26	TB26XH200	7.241	7.7813	KF-1	3020	0.875 - 3	0.5625	—	2	—	13.3
28	TB28XH200	7.799	8.2656	CF-1	3535	1.1875 - 3.5	0.9375	6.5	3.5	—	13.5
30	TB30XH200	8.356	9.0313	CF-1	3535	1.1875 - 3.5	0.9375	6.5	3.5	—	18.5
32	TB32XH200	8.913	9.5156	CF-1	3535	1.1875 - 3.5	0.9375	6.5	3.5	—	21.5
40	TB40XH200	11.141	11.7969	CF-1	4040	1.4375 - 4	1.4375	8.5	4	—	37.5
48	TB48XH200	13.369	—	C-2	4040	1.4375 - 4	0.4063	8.5	4	0.7188	44.5
60	TB60XH200	16.711	—	C-3	4040	1.4375 - 4	0.7188	8.5	4	0.7188	47.0

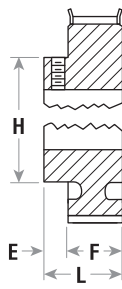
Dimensions in inches. Weight in pounds. Pulley O.D. = P.D. - .11"

Type CF



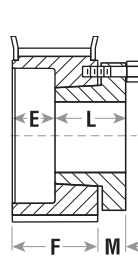
Type C

Type DF



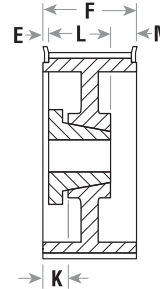
Type D

Type EF

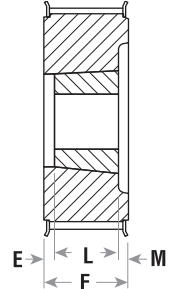


Type E

Type JF



Type J



Type KF

XH - 7/8" Pitch

XH300 For Belts 3" Wide (7/8" Pitch)

Minimum Plain Bore

F = 3-5/8

No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bore		Dimensions				Wt. Less Bush
					Stk.	Max.	E	H	L	M	
18	18XH300	5.013	5.5781	DF-1	1	2.625	0.875	3.6875	4.5	1*	15.0
20	20XH300	5.570	6.1094	DF-1	1	3.25	1	4.125	4.625	0.75*	19.0

*Counterbore "M" depth on flush side.

XH - 7/8" Pitch

XH300 For Belts 3" Wide (7/8" Pitch)

Taper Bushed Type

F = 3-5/8

No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bush	Bore Range	Dimensions				Wt. Less Bush
							E	H	L	M	
22	TB22XH300	6.127	6.6563	KF-1	2517	0.5 - 2.5	0.9375	—	1.75	0.9375	13.6
24	TB24XH300	6.685	7.2813	KF-1	3020	0.875 - 3	0.8125	—	2	0.8125	15.3
26	TB26XH300	7.241	7.7813	KF-1	3020	0.875 - 3	0.8125	—	2	0.8125	17.3
28	TB28XH300	7.799	8.2656	KF-1	3535	1.1875 - 3.5	0.125	—	3.5	—	17.5
30	TB30XH300	8.356	9.0313	KF-1	3535	1.1875 - 3.5	0.125	—	3.5	—	22.5
32	TB32XH300	8.913	9.5156	KF-1	3535	1.1875 - 3.5	0.125	—	3.5	—	26.5
40	TB40XH300	11.141	11.7969	CF-1	4040	1.4375 - 4	0.375	7.75	4	—	43.5
48	TB48XH300	13.369	—	C-2	4040	1.4375 - 4	0.1875	8.5	4	0.1875	51.5
60	TB60XH300	16.711	—	C-3	4040	1.4375 - 4	0.1875	8.5	4	0.1875	55.5

XH - 1/2" Pitch

XH400 For Belts 4" Wide (7/8" Pitch)

QD Type

F = 4-11/16

No. Teeth	Part Number	Pitch Diameter	Max FL O.D.	Type	Bush	Bore Range	Dimensions				Wt. Less Bush
							E	K	L	M	
20	20XH400SK	5.570	6.0938	JF-1	SK	0.5 - 2.5	0.5	1.1875	1.9375	2.25	12.4
22	22XH400SK	6.127	6.6563	JF-1	SK	0.5 - 2.5	0.5	1.1875	1.9375	2.25	16.7
24	24XH400SF	6.685	7.2188	JF-1	SF	0.5 - 2.875	0.5	1.1875	2.0625	2.1875	19.2
26	26XH400SF	7.242	7.7813	JF-1	SF	0.5 - 2.875	0.5	1.1875	2.0625	2.1875	23.0
28	28XH400E	7.799	8.3438	JF-1	E	0.875 - 3.5	0.6563	1.5313	2.625	1.4063	24.0
30	30XH400E	8.356	8.9063	JF-1	E	0.875 - 3.5	0.6563	1.5313	2.625	1.4063	30.7
32	32XH400E	8.913	9.4375	JF-1	E	0.875 - 3.5	0.6563	1.5313	2.625	1.4063	34.0
40	40XH400F	11.141	11.6875	HF-2	F	1 - 3.9375	0.0938	1.0938	3.625	1.0313	49.0
48	48XH400J	13.369	—	H-3	J	1.4375 - 4.5	0.1875	1	4.5	0.875	67.3
60	60XH400J	16.711	—	H-3	J	1.4375 - 4.5	0.4375	0.75	4.5	0.625	85.0
72	72XH400J	20.054	—	H-3	J	1.4375 - 4.5	0.4375	0.75	4.5	0.625	108.0
84	84XH400J	23.396	—	H-3	J	1.4375 - 4.5	0.4375	0.75	4.5	0.625	119.0
96	96XH400J	26.738	—	H-3	J	1.4375 - 4.5	0.4375	0.75	4.5	0.625	187.5
120	120XH400J	33.423	—	H-3	J	1.4375 - 4.5	0.4375	0.75	4.5	0.625	187.5

Dimensions in inches. Weight in pounds. Pulley O.D. = P.D. - .11"

Timing Pulley Diameters



XL - 1/5" Pitch

No. Teeth	Diameter		No. Teeth	Diameter		No. Teeth	Diameter		No. Teeth	Diameter		No. Teeth	Diameter	
	P.D.	O.D.		P.D.	O.D.		P.D.	O.D.		P.D.	O.D.		P.D.	O.D.
10XL	0.637	0.617	33XL	2.101	2.081	55XL	3.501	3.481	77XL	4.902	4.882	99XL	6.303	6.283
11XL	0.700	0.680	34XL	2.165	2.145	56XL	3.565	3.545	78XL	4.966	4.946	100XL	6.346	6.326
12XL	0.764	0.744	35XL	2.228	2.208	57XL	3.629	3.609	79XL	5.029	5.009	101XL	6.430	6.410
13XL	0.828	0.808	36XL	2.292	2.272	58XL	3.692	3.672	80XL	5.093	5.073	102XL	6.494	6.474
14XL	0.891	0.871	37XL	2.355	2.335	59XL	3.756	3.736	81XL	5.157	5.137	103XL	6.557	6.537
15XL	0.955	0.935	38XL	2.419	2.399	60XL	3.820	3.800	82XL	5.220	5.200	104XL	6.621	6.601
16XL	1.019	0.999	39XL	2.483	2.463	61XL	3.883	3.863	83XL	5.284	5.264	105XL	6.685	6.665
17XL	1.082	1.062	40XL	2.546	2.526	62XL	3.947	3.927	84XL	5.348	5.328	106XL	6.748	6.728
18XL	1.146	1.126	41XL	2.610	2.590	63XL	4.011	3.991	85XL	5.411	5.391	107XL	6.812	6.792
19XL	1.210	1.190	42XL	2.674	2.654	64XL	4.074	4.054	86XL	5.475	5.455	108XL	6.875	6.855
20XL	1.273	1.253	43XL	2.737	2.717	65XL	4.138	4.118	87XL	5.539	5.519	109XL	6.939	6.919
21XL	1.337	1.317	44XL	2.801	2.781	66XL	4.202	4.182	88XL	5.602	5.582	110XL	7.003	6.983
22XL	1.401	1.381	45XL	2.865	2.845	67XL	4.265	4.245	89XL	5.666	5.646	111XL	7.066	7.046
23XL	1.464	1.444	46XL	2.928	2.908	68XL	4.329	4.309	90XL	5.730	5.710	112XL	7.130	7.110
24XL	1.528	1.508	47XL	2.992	2.972	69XL	4.393	4.373	91XL	5.793	5.773	113XL	7.194	7.174
25XL	1.592	1.572	48XL	3.056	3.036	70XL	4.456	4.436	92XL	5.857	5.837	114XL	7.257	7.237
26XL	1.655	1.635	49XL	3.119	3.099	71XL	4.520	4.500	93XL	5.921	5.901	115XL	7.321	7.301
27XL	1.719	1.699	50XL	3.183	3.163	72XL	4.584	4.564	94XL	5.984	5.964	116XL	7.385	7.365
28XL	1.783	1.763	51XL	3.247	3.227	73XL	4.647	4.627	95XL	6.048	6.028	117XL	7.448	7.428
29XL	1.846	1.826	52XL	3.310	3.290	74XL	4.711	4.691	96XL	6.112	6.092	118XL	7.512	7.492
30XL	1.910	1.890	53XL	3.374	3.354	75XL	4.775	4.755	97XL	6.175	6.155	119XL	7.576	7.556
31XL	1.974	1.954	54XL	3.438	3.418	76XL	4.838	4.818	98XL	6.239	6.219	120XL	7.639	7.619
32XL	2.037	2.017												

L - 3/8" Pitch

No. Teeth	Diameter		No. Teeth	Diameter		No. Teeth	Diameter		No. Teeth	Diameter		No. Teeth	Diameter	
	P.D.	O.D.		P.D.	O.D.		P.D.	O.D.		P.D.	O.D.		P.D.	O.D.
10L	1.194	1.164	33L	3.939	3.909	56L	6.685	6.655	79L	9.430	9.400	102L	12.175	12.145
11L	1.313	1.283	34L	4.058	4.028	57L	6.804	6.774	80L	9.549	9.519	103L	12.295	12.265
12L	1.432	1.402	35L	4.178	4.148	58L	6.923	6.893	81L	9.669	9.639	104L	12.414	12.384
13L	1.552	1.522	36L	4.297	4.267	59L	7.043	7.013	82L	9.788	9.758	105L	12.533	12.503
14L	1.671	1.641	37L	4.417	4.387	60L	7.162	7.132	83L	9.907	9.877	106L	12.653	12.623
15L	1.790	1.760	38L	4.536	4.506	61L	7.281	7.251	84L	10.027	9.997	107L	12.772	12.742
16L	1.910	1.880	39L	4.655	4.625	62L	7.401	7.371	85L	10.147	10.117	108L	12.892	12.862
17L	2.029	1.999	40L	4.775	4.745	63L	7.520	7.490	86L	10.266	10.236	109L	13.011	12.981
18L	2.149	2.119	41L	4.894	4.864	64L	7.639	7.609	87L	10.385	10.355	110L	13.130	13.100
19L	2.268	2.238	42L	5.013	4.983	65L	7.759	7.729	88L	10.504	10.474	111L	13.250	13.220
20L	2.387	2.357	43L	5.133	5.103	66L	7.878	7.848	89L	10.624	10.594	112L	13.369	13.339
21L	2.507	2.477	44L	5.252	5.222	67L	7.998	7.968	90L	10.743	10.713	113L	13.488	13.458
22L	2.626	2.596	45L	5.371	5.341	68L	8.117	8.087	91L	10.862	10.832	114L	13.608	13.578
23L	2.745	2.715	46L	5.491	5.461	69L	8.236	8.206	92L	10.982	10.952	115L	13.727	13.697
24L	2.865	2.835	47L	5.610	5.580	70L	8.356	8.326	93L	11.101	11.071	116L	13.846	13.816
25L	2.984	2.954	48L	5.730	5.700	71L	8.475	8.445	94L	11.220	11.190	117L	13.966	13.936
26L	3.104	3.074	49L	5.849	5.819	72L	8.594	8.564	95L	11.340	11.310	118L	14.085	14.055
27L	3.223	3.193	50L	5.968	5.938	73L	8.714	8.684	96L	11.459	11.429	119L	14.205	14.175
28L	3.342	3.312	51L	6.088	6.058	74L	8.833	8.803	97L	11.579	11.549	120L	14.324	14.294
29L	3.462	3.432	52L	6.207	6.177	75L	8.952	8.922	98L	11.698	11.668	130L	15.518	15.488
30L	3.581	3.551	53L	6.326	6.296	76L	9.072	9.042	99L	11.817	11.787	140L	16.711	16.681
31L	3.700	3.670	54L	6.446	6.416	77L	9.191	9.161	100L	11.937	11.907	150L	17.905	17.875
32L	3.820	3.790	55L	6.565	6.535	78L	9.311	9.281	101L	12.056	12.026			



Timing Pulley Diameters

H - 1/2" Pitch

No. Teeth	Diameter		No. Teeth	Diameter		No. Teeth	Diameter		No. Teeth	Diameter		No. Teeth	Diameter	
	P.D.	O.D.		P.D.	O.D.		P.D.	O.D.		P.D.	O.D.		P.D.	O.D.
15H	2.387	2.333	35H	5.570	5.516	55H	8.754	8.700	75H	11.937	11.883	95H	15.120	15.066
16H	2.546	2.492	36H	5.730	5.676	56H	8.913	8.859	76H	12.096	12.042	96H	15.225	15.171
17H	2.706	2.652	37H	5.889	5.835	57H	9.072	9.018	77H	12.255	12.201	97H	15.438	15.384
18H	2.865	2.811	38H	6.048	5.994	58H	9.231	9.177	78H	12.414	12.360	98H	15.597	15.543
19H	3.024	2.970	39H	6.207	6.153	59H	9.390	9.336	79H	12.573	12.519	99H	15.756	15.702
20H	3.183	3.129	40H	6.366	6.312	60H	9.549	9.495	80H	12.732	12.678	100H	15.915	15.861
21H	3.342	3.288	41H	6.525	6.471	61H	9.708	9.654	81H	12.892	12.848	102H	16.234	16.180
22H	3.501	3.447	42H	6.685	6.631	62H	9.868	9.814	82H	13.051	12.997	104H	16.552	16.498
23H	3.661	3.607	43H	6.844	6.790	63H	10.027	9.973	83H	13.210	13.156	106H	16.870	16.816
24H	3.820	3.766	44H	7.003	6.949	64H	10.186	10.132	84H	13.369	13.315	108H	17.189	17.135
25H	3.979	3.925	45H	7.162	7.108	65H	10.345	10.291	85H	13.528	13.474	110H	17.507	17.453
26H	4.138	4.084	46H	7.321	7.267	66H	10.504	10.450	86H	13.687	13.633	115H	18.303	18.249
27H	4.297	4.243	47H	7.480	7.426	67H	10.663	10.609	87H	13.846	13.792	120H	19.099	19.045
28H	4.456	4.402	48H	7.639	7.585	68H	10.823	10.769	88H	14.005	13.952	125H	19.894	19.840
29H	4.615	4.561	49H	7.799	7.745	69H	10.982	10.928	89H	14.165	14.111	130H	20.690	20.636
30H	4.775	4.721	50H	7.958	7.904	70H	11.141	11.087	90H	14.324	14.270	135H	21.486	21.432
31H	4.934	4.880	51H	8.117	8.063	71H	11.300	11.246	91H	14.483	14.429	140H	22.282	22.228
32H	5.093	5.039	52H	8.276	8.222	72H	11.459	11.405	92H	14.642	14.588	145H	23.077	23.023
33H	5.252	5.198	53H	8.435	8.381	73H	11.618	11.564	93H	14.801	14.747	150H	23.873	23.819
34H	5.411	5.357	54H	8.594	8.540	74H	11.777	11.723	94H	14.961	14.907	156H	24.828	24.774

XH - 7/8" Pitch

No. Teeth	Diameter		No. Teeth	Diameter		No. Teeth	Diameter		No. Teeth	Diameter		No. Teeth	Diameter	
	P.D.	O.D.		P.D.	O.D.		P.D.	O.D.		P.D.	O.D.		P.D.	O.D.
18XH	5.013	4.903	45XH	12.533	12.423	70XH	19.496	19.386	95XH	26.460	26.350	120XH	33.423	33.313
20XH	5.570	5.460	46XH	12.812	12.702	71XH	19.776	19.666	96XH	26.738	26.628	122XH	33.980	33.870
22XH	6.127	6.017	47XH	13.091	12.981	72XH	20.054	19.944	97XH	27.017	26.907	124XH	34.537	34.427
23XH	6.406	6.296	48XH	13.369	13.259	73XH	20.332	20.222	98XH	27.295	27.185	126XH	35.094	34.984
24XH	6.685	6.575	49XH	13.648	13.538	74XH	20.611	20.501	99XH	27.574	27.464	128XH	35.651	35.541
25XH	6.963	6.853	50XH	13.926	13.816	75XH	20.889	20.779	100XH	27.852	27.742	130XH	36.208	36.098
26XH	7.242	7.132	51XH	14.205	14.095	76XH	21.168	21.058	101XH	28.131	28.021	132XH	36.765	36.655
27XH	7.520	7.410	52XH	14.483	14.373	77XH	21.446	21.336	102XH	28.409	28.299	134XH	37.322	37.212
28XH	7.799	7.689	53XH	14.762	14.652	78XH	21.725	21.615	103XH	28.688	28.578	136XH	37.879	37.769
29XH	8.077	7.967	54XH	15.140	14.930	79XH	21.003	21.893	104XH	28.966	28.856	138XH	38.436	38.326
30XH	8.356	8.246	55XH	15.319	15.209	80XH	22.282	22.172	105XH	29.245	29.135	140XH	38.993	38.883
31XH	8.634	8.524	56XH	15.597	15.487	81XH	22.560	22.450	106XH	29.523	29.413	142XH	39.550	39.440
32XH	8.913	8.803	57XH	15.876	15.766	82XH	22.839	22.729	107XH	29.802	29.682	144XH	40.107	39.997
33XH	9.191	9.081	58XH	16.154	16.044	83XH	23.118	23.008	108XH	30.080	29.970	146XH	40.664	40.554
34XH	9.470	9.360	59XH	16.433	16.323	84XH	23.396	23.286	109XH	30.359	30.249	150XH	41.778	41.668
35XH	9.748	9.638	60XH	16.711	16.601	85XH	23.674	23.564	110XH	30.637	30.527			
36XH	10.027	9.917	61XH	16.990	16.880	86XH	23.953	23.843	111XH	30.916	30.806			
37XH	10.305	10.195	62XH	17.268	17.158	87XH	24.231	24.121	112XH	31.194	31.084			
38XH	10.584	10.474	63XH	17.547	17.437	88XH	24.510	24.400	113XH	31.473	31.363			
39XH	10.862	10.752	64XH	17.825	17.715	89XH	24.788	24.678	114XH	31.751	31.641			
40XH	11.141	11.031	65XH	18.104	17.994	90XH	25.067	24.957	115XH	32.030	31.920			
41XH	11.419	11.309	66XH	18.382	18.272	91XH	25.345	25.235	116XH	32.308	32.198			
42XH	11.698	11.588	67XH	18.661	18.551	92XH	25.624	25.514	117XH	32.587	32.477			
43XH	11.976	11.866	68XH	18.939	18.829	93XH	25.902	25.792	118XH	32.865	32.755			
44XH	12.255	12.145	69XH	19.218	19.108	94XH	26.181	26.071	119XH	33.145	33.035			

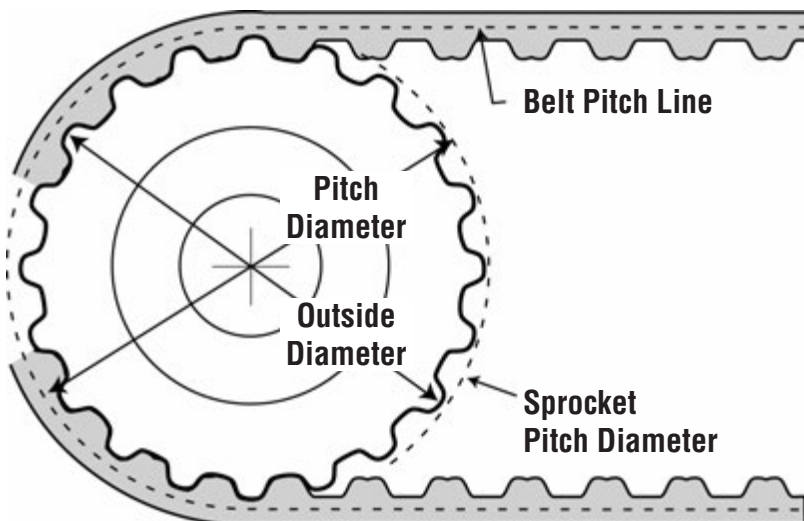
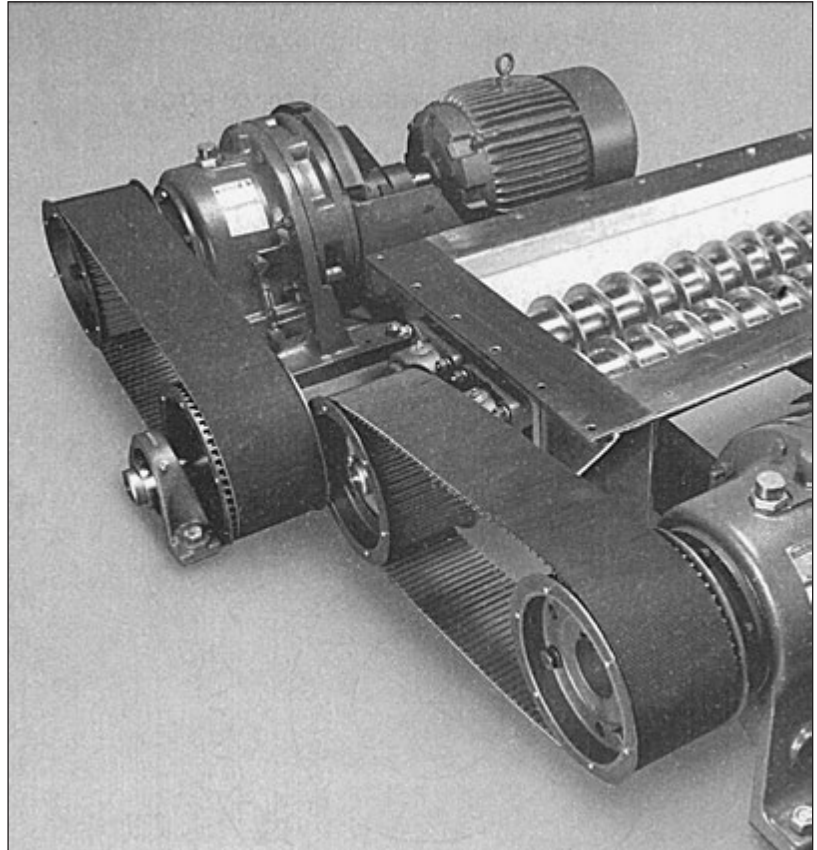
Outside Diameter Tolerances

Pulley Dia.	O.D. Tolerance	Pulley Dia.	O.D. Tolerance	Pulley Dia.	O.D. Tolerance	Pulley Dia.	O.D. Tolerance
0 - 1"	+0.02 -	2.001" - 4"	+0.04 -	7.001" - 12"	+0.06 -	20.001 UP	+0.08 -
1" - 2"	+0.03 -	4.001" - 7"	+0.05 -	12.001" - 20"	+0.07 -		

Stock HTS[®] Sprockets

Features of HTS[®] Drives

- Positive Slip Proof Engagement
- Wide Speed Range
- Constant Driven Speeds
- Wide Range of Load Capabilities
- No Lubrication
- High Tension Eliminated
- High Mechanical Efficiency
- Economical Operation



HTS[®] High Torque Sprockets

- RPP[®] Tooth Profile
- Available in 5mm, 8mm, 14mm & 20mm pitch
- Stocked in QD and Taper Bush Interchangeable Bushing Styles, as well as Stock Bore.

Martin HTS sprockets are manufactured in various sizes, dimensions and capacities to meet industry requirements. This includes a wide range of loads, speeds, and demanding applications.

The following is an explanation of dimensional nomenclature for *Martin* HTS sprockets as well as belts currently available that will operate efficiently with the *Martin* tooth form.

The HTS sprocket has three primary dimensions:

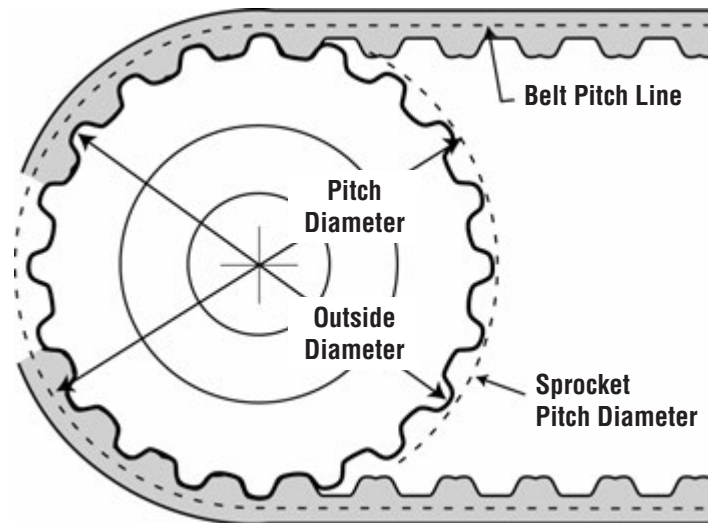
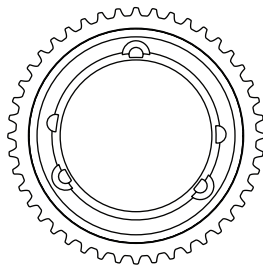
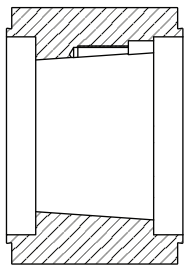
- Number of Teeth
- Pitch
- Width

The pitch is the distance in millimeters from the center of one tooth groove to the other and is measured on the sprocket's pitch circle. The pitch circle of the sprocket matches with the pitch line of the belt when in mesh. The sprocket pitch diameter is always greater than its outer diameter.

Note: Belts must be run with sprockets of the same pitch.

As with the sprocket specifications, belt pitch is the measure between two adjacent tooth centers which is measured on the pitch line of the belt.

Note: The theoretical pitch line is within the tensile member. Belt length is the total length (circumference) in millimeters as could be measured along the pitch line.



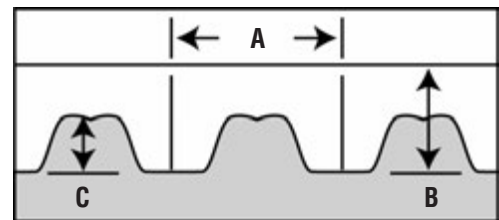
P 30 14M 55 - SK

HTS® Number of Teeth	Bushing or MPB
Belt Pitch	Belt Width (mm)
5mm	15, 25
8mm	20, 30, 50, 85
14mm	40, 55, 85, 115, 170
20mm	115, 170, 230, 290, 340

“P” HTS Sprockets (RPP® Tooth Profile) - Run with RPP®, RPP® Plus®, Hawk Pd®, & HTD® belts.

“P” HTS Sprockets are designed to run with fiberglass corded belts.

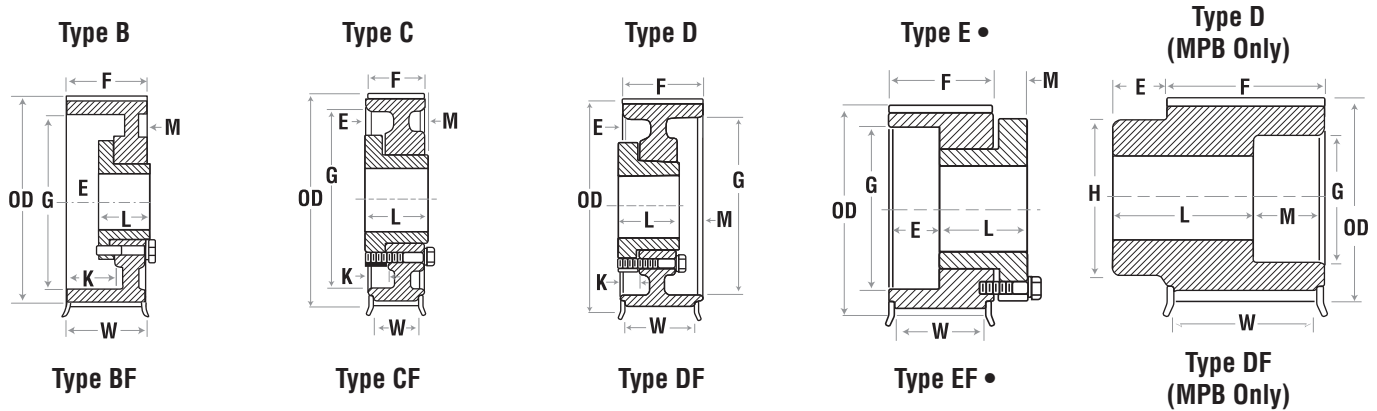
- Available in 5mm, 8mm, 14mm, 20mm pitches
- Belt widths:
 - 15mm, 25mm (5mm pitch)
 - 20mm, 30mm, 50mm, 85mm (8mm pitch)
 - 40mm, 55mm, 85mm, 115mm, 170mm (14mm pitch)
 - 115mm, 170mm, 230mm, 290mm, 340mm (20mm pitch)



Belt Pitch	A	B	C
5 mm	5 mm	3.81 mm	2.08 mm
	.197 in	.150 in	.082 in
8 mm	8 mm	6 mm	3.4 mm
	.315 in	.236 in	.133 in
14 mm	14 mm	10 mm	6.0 mm
	.552 in	.394 in	.237 in
20 mm	20 mm	13.2 mm	8.4 mm
	.784 in	.520 in	.330 in

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RPP® and RPP® Plus® are registered trademarks of Carlisle Power Transmission. HTS® is a registered trademark of Gates Corporation.

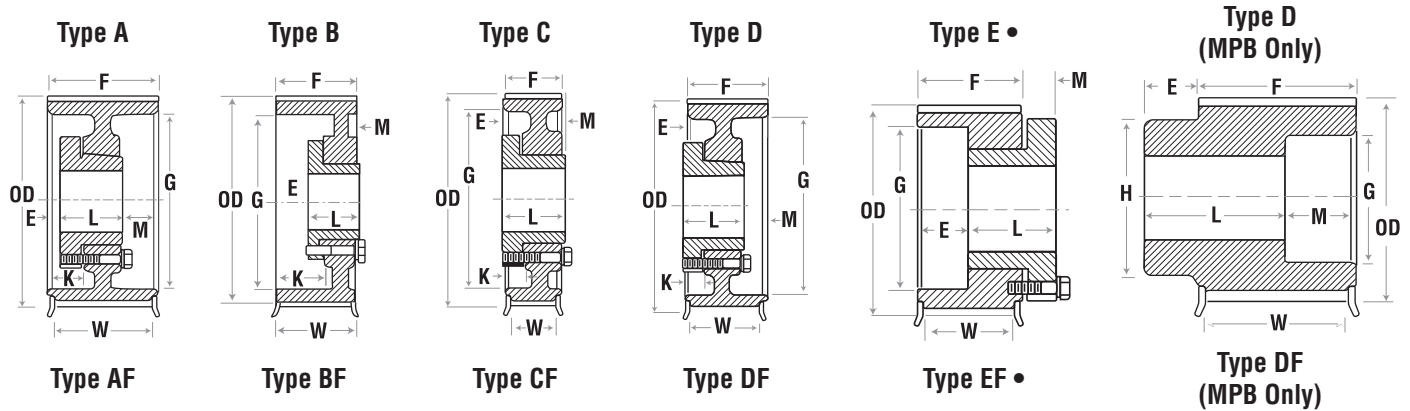
High Torque Sprockets 5mm



No. of Teeth	Catalog Number	Bore	Pitch	Diameter		Type +	Max Bore	Dimensions								Weight Approx. (lbs.)
				O.D.	Flange			E	L	M	K	H	F	G	W	
MPB 15mm (.591 in.) Wide Belts (5M-15)																
32	P325M15-MPB	0.5	2.005	1.960	2.16	DF-1	0.88	0.50	1.73	—	—	1.55	0.84	—	0.65	1.12
34	P345M15-MPB	0.5	2.130	2.085	2.29	DF-1	1.00	0.50	1.73	—	—	1.68	0.84	—	0.65	1.25
36	P365M15-MPB	0.5	2.256	2.211	2.41	DF-1	1.12	0.50	1.73	—	—	1.80	0.84	—	0.65	1.39
QD 15mm (.591in.) Wide Belts (5M-15)																
38	P385M15-JA	JA	2.381	2.336	2.54	•EF-1	1.25	0.67	1.00	0.44	—	—	0.84	1.34	0.65	0.80
40	P405M15-JA	JA	2.506	2.461	2.66	•EF-1	1.25	0.67	1.00	0.44	—	—	0.84	1.34	0.65	1.06
44	P445M15-JA	JA	2.757	2.712	2.91	•EF-1	1.25	0.67	1.00	0.44	—	—	0.84	1.34	0.65	1.40
48	P485M15-JA	JA	3.008	2.963	3.16	BF-1	1.25	0.23	1.00	0.00	0.67	—	0.84	2.36	0.65	1.20
52	P525M15-JA	JA	3.258	3.213	3.41	BF-1	1.25	0.23	1.00	0.00	0.67	—	0.84	2.62	0.65	1.43
56	P565M15-SH	SH	3.509	3.464	3.66	DF-1	1.68	0.08	1.25	0.06	0.42	—	0.84	2.86	0.65	1.64
60	P605M15-SH	SH	3.760	3.715	3.92	DF-1	1.68	0.08	1.25	0.06	0.42	—	0.84	3.12	0.65	1.83
64	P645M15-SH	SH	4.010	3.965	4.16	DF-1	1.68	0.08	1.25	0.06	0.42	—	0.84	3.37	0.65	2.16
68	P685M15-SDS	SDS	4.261	4.216	4.41	CF-1	2.00	0.08	1.31	0.00	0.48	—	0.84	3.50	0.65	2.48
72	P725M15-SDS	SDS	4.511	4.466	4.66	CF-1	2.00	0.08	1.31	0.00	0.48	—	0.84	3.75	0.65	2.84
80	P805M15-SDS	SDS	5.013	4.968	—	C-1	2.00	0.08	1.31	0.00	0.48	—	0.84	4.25	0.65	3.61
90	P905M15-SDS	SDS	5.639	5.594	—	C-1	2.00	0.08	1.31	0.00	0.48	—	0.84	4.88	0.65	4.69
112	P1125M15-SDS	SDS	7.018	6.973	—	C-2	2.00	0.08	1.31	0.00	0.48	—	0.84	6.05	0.65	6.02
MPB 25mm (.984in.) Wide Belts (5M-25)																
32	P325M25-MPB	0.5	2.005	1.960	2.16	DF-1	0.88	0.50	1.34	—	—	1.55	1.23	—	1.04	0.84
34	P345M25-MPB	0.5	2.130	2.085	2.29	DF-1	1.00	0.50	1.34	—	—	1.68	1.23	—	1.04	0.93
36	P365M25-MPB	0.5	2.256	2.211	2.41	DF-1	1.12	0.50	1.34	—	—	1.80	1.23	—	1.04	1.03
QD 25mm (.984in.) Wide Belts (5M-25)																
38	P385M25-JA	JA	2.381	2.336	2.54	•EF-1	1.25	0.28	1.00	0.44	—	—	1.23	1.34	1.04	0.61
40	P405M25-JA	JA	2.506	2.461	2.66	•EF-1	1.25	0.28	1.00	0.44	—	—	1.23	1.34	1.04	0.72
44	P445M25-JA	JA	2.757	2.712	2.91	•EF-1	1.25	0.28	1.00	0.44	—	—	1.23	1.34	1.04	0.95
48	P485M25-JA	JA	3.008	2.963	3.16	CF-1	1.25	0.16	1.00	0.00	0.28	—	1.23	2.36	1.04	0.97
52	P525M25-JA	JA	3.258	3.213	3.41	CF-1	1.25	0.16	1.00	0.00	0.28	—	1.23	2.62	1.04	1.17
56	P565M25-SH	SH	3.509	3.464	3.66	DF-1	1.68	0.50	1.25	0.09	0.00	—	1.23	—	1.04	1.37
60	P605M25-SH	SH	3.760	3.715	3.92	DF-1	1.68	0.50	1.25	0.09	0.00	—	1.23	—	1.04	1.68
64	P645M25-SH	SH	4.010	3.965	4.16	DF-1	1.68	0.50	1.25	0.09	0.00	—	1.23	—	1.04	1.80
68	P685M25-SDS	SDS	4.261	4.216	4.41	CF-1	2.00	0.47	1.31	0.00	0.09	—	1.23	3.50	1.04	2.10
72	P725M25-SDS	SDS	4.511	4.466	4.66	CF-1	2.00	0.47	1.31	0.00	0.09	—	1.23	3.75	1.04	2.43
80	P805M25-SDS	SDS	5.013	4.968	—	C-1	2.00	0.47	1.31	0.00	0.09	—	1.23	4.25	1.04	3.15
90	P905M25-SDS	SDS	5.639	5.594	—	C-1	2.00	0.47	1.31	0.00	0.09	—	1.23	4.88	1.04	4.17
112	P1125M25-SDS	SDS	7.018	6.973	—	C-1	2.00	0.47	1.31	0.00	0.09	—	1.23	6.05	1.04	5.16

* Weight Shown is for Sprocket Less Bushing.
• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.



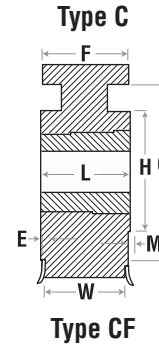
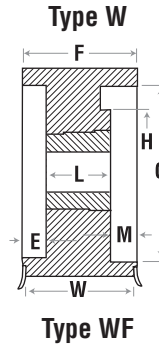
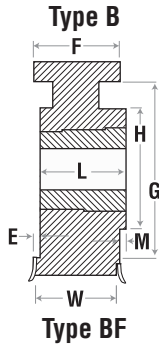
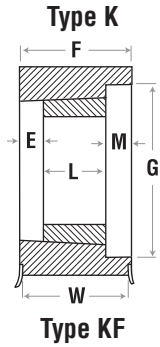
No. of Teeth	Catalog Number	Bore	Pitch	Diameter		Type +	Max Bore	Dimensions								Weight Approx. (lbs.)
				O.D.	Flange			E	L	M	K	H	F	G	W	
MPB 20mm (.787 in.) Wide Belts (8M-20)																
20	P208M20-MPB	1/2	2.005	1.951	2.375	DF-1	0.875	0.625	1.75	—	—	1.375	1.125	—	0.875	.90
21	P218M20-MPB	1/2	2.105	2.051	2.468	DF-1	1	0.625	1.75	—	—	1.5	1.125	—	0.875	1.00
22	P228M20-MPB	1/2	2.206	2.152	2.562	DF-1	1.1875	0.625	1.75	—	—	1.625	1.125	—	0.875	1.60
QD 20mm (.787 in.) Wide Belts (8M-20)																
24	P248M20-JA	JA	2.406	2.352	2.750	• EF-1	1.25	0.5625	1.0625	0.44	—	—	1.125	1.34	0.875	1.50
26	P268M20-JA	JA	2.607	2.553	2.937	• EF-1	1.250	0.5625	1.0625	0.4375	—	—	1.125	1.34	0.875	1.80
28	P288M20-H	H	2.807	2.753	3.156	• EF-1	1.375	0.25	1.25	0.375	—	—	1.125	1.57	0.875	1.40
30	P308M20-H	H	3.008	2.954	3.344	• EF-1	1.375	0.25	1.25	0.375	—	—	1.125	1.57	0.875	1.90
32	P328M20-H	H	3.208	3.154	3.562	CF-1	1.375	0.125	1.25	—	0.25	—	1.125	2.56	0.875	2.00
34	P348M20-SH	SH	3.409	3.355	3.750	DF-1	1.6875	0.1875	1.25	0.0625	0.3125	—	1.125	2.75	0.875	2.20
36	P368M20-SH	SH	3.609	3.555	3.937	DF-1	1.6875	0.1875	1.25	0.0625	0.3125	—	1.125	2.82	0.875	2.50
38	P388M20-SH	SH	3.810	3.756	4.156	DF-1	1.6875	0.1875	1.25	0.0625	0.3125	—	1.125	3	0.875	2.80
40	P408M20-SH	SH	4.010	3.956	4.344	DF-1	1.6875	0.1875	1.25	0.0625	0.3125	—	1.125	3	0.875	3.00
44	P448M20-SDS	SDS	4.411	4.357	4.750	CF-1	2	0.1875	1.25	—	0.375	—	1.125	3.5	0.875	3.20
48	P488M20-SDS	SDS	4.812	4.758	5.157	CF-1	2	0.1875	1.3125	—	0.375	—	1.125	3.8	0.875	3.40
56	P568M20-SDS	SDS	5.614	5.560	5.937	CF-1	2	0.1875	1.3125	—	0.375	—	1.125	4.6	0.875	4.50
64	P648M20-SDS	SDS	6.416	6.362	6.750	CF-1	2	0.1875	1.3125	—	0.375	—	1.125	5.4	0.875	5.50
72	P728M20-SDS	SDS	7.218	7.164	7.562	CF-1	2	0.1875	1.3125	—	0.375	—	1.125	6.2	0.875	6.00
80	P808M20-SDS	SDS	8.020	7.966	8.375	CF-2	2	0.1875	1.3125	—	0.375	—	1.125	6.9	0.875	6.50
90	P908M20-SDS	SDS	9.023	8.969	—	C-2	2	0.1875	1.3125	—	0.375	—	1.125	7.62	—	7.00
112	P1128M20-SK	SK	11.229	11.175	—	C-3	2.625	0.75	1.9375	0.0625	0.0625	—	1.125	9.87	—	10.50
144	P1448M20-SF	SF	14.447	14.388	—	C-3	2.9375	0.75	2.0625	0.0625	0.0625	—	1.125	12.88	—	14.50
Taper Bushed 20mm (.787 in.) Wide Belts (8M-20)																
24	P248M20-1108	1108	2.406	2.352	2.75	KF-1	1	0.0625	0.875	0.1875	—	—	1.125	1.783	0.875	.7
26	P268M20-1108	1108	2.607	2.553	2.94	KF-1	1	0.0625	0.875	0.1875	—	—	1.125	1.971	0.875	.9
28	P288M20-1108	1108	2.807	2.753	3.16	KF-1	1	0.0625	0.875	0.1875	—	—	1.125	2	0.875	1.2
30	P308M20-1210	1210	3.008	2.954	3.34	KF-1	1.25	0.125	1	—	—	—	1.125	—	0.875	1.2
32	P328M20-1210	1210	3.208	3.154	3.56	KF-1	1.25	0.125	1	—	—	—	1.125	—	0.875	1.4
34	P348M20-1610	1610	3.409	3.355	3.75	KF-1	1.6875	0.125	1	—	—	—	1.125	—	0.875	1.4
36	P368M20-1610	1610	3.609	3.555	3.94	KF-1	1.6875	0.125	1	—	—	—	1.125	—	0.875	1.7
38	P388M20-1610	1610	3.810	3.756	4.16	KF-1	1.6875	0.125	1	—	—	—	1.125	—	0.875	2.0
40	P408M20-1610	1610	4.010	3.956	4.34	KF-1	1.6875	0.125	1	—	—	—	1.125	—	0.875	2.4
44	P448M20-2012	2012	4.411	4.357	4.75	CF-1	2.125	—	1.25	0.125	—	3.8438	1.125	—	0.875	2.6
48	P488M20-2012	2012	4.812	4.758	5.16	CF-1	2.125	—	1.25	0.125	—	3.875	1.125	—	0.875	3.4
56	P568M20-2012	2012	5.614	5.560	5.94	CF-1	2.125	—	1.25	0.125	—	3.875	1.125	—	0.875	5.3
64	P648M20-2012	2012	6.416	6.362	6.75	CF-1	2.125	—	1.25	0.125	—	4.375	1.125	—	0.875	7.5
72	P728M20-2012	2012	7.218	7.164	7.56	CF-1	2.125	—	1.25	0.125	—	4.375	1.125	—	0.875	9.9
80	P808M20-2517	2517	8.020	7.966	8.38	CF-2	2.6875	—	1.75	0.625	—	4.875	1.125	6.9	0.875	11.9
90	P908M20-2517	2517	9.023	8.969	—	C-2	2.6875	—	1.75	0.625	—	—	1.125	7.63	—	12.9

* Weight Shown is for Sprocket Less Bushing.
• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

High Torque Sprockets

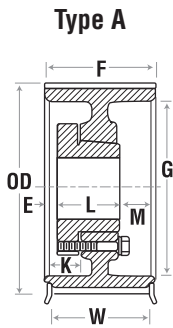
8mm



No. of Teeth	Catalog Number	Bore	Pitch	Diameter		Type +	Max Bore	Dimensions								Weight Approx. (lbs.)
				O.D.	Flange			E	L	M	K	H	F	G	W	
MPB 30mm (1.18in.) Wide Belts (8M-30)																
20	P208M30-MPB	0.5	2.005	1.951	2.375	DF-1	0.875	0.625	2.125	—	—	1.375	1.5	—	1.125	1.10
21	P218M30-MPB	0.5	2.105	2.051	2.468	DF-1	1	0.625	2.125	—	—	1.5	1.5	—	1.125	1.30
22	P228M30-MPB	0.5	2.206	2.152	2.562	DF-1	1.1875	0.625	2.125	—	—	1.625	1.5	—	1.25	1.40
24	P248M30-MPB	0.5	2.406	2.352	2.750	DF-1	1.25	0.625	2.125	—	—	1.8125	1.5	—	1.25	1.80
26	P268M30-MPB	0.5	2.607	2.553	2.937	DF-1	1.25	0.75	2.25	—	—	2	1.5	—	1.25	2.20
QD 30mm (1.18in.) Wide Belts (8M-30)																
28	P288M30-H	H	2.807	2.753	3.156	• EF-1	1.25	0.625	1.2500	0.3750	—	—	1.5	1.57	1.250	1.70
30	P308M30-H	H	3.008	2.954	3.344	• EF-1	1.38	0.625	1.25	.375	—	—	1.5	1.57	1.25	1.90
32	P328M30-H	H	3.208	3.154	3.562	BF-1	1.375	0.25	1.25	—	.625	—	1.5	2.56	1.25	2.10
34	P348M30-SH	SH	3.409	3.355	3.750	AF-1	1.375	0.19	1.25	.625	.688	—	1.5	2.75	1.25	2.40
36	P368M30-SH	SH	3.609	3.555	3.937	AF-1	1.688	0.1875	1.25	.625	.6875	—	1.5	2.82	1.25	2.80
38	P388M30-SH	SH	3.810	3.756	4.156	AF-1	1.6875	0.1875	1.25	.625	.6875	—	1.5	3	1.25	3.20
40	P408M30-SH	SH	4.010	3.956	4.344	AF-1	1.6875	0.1875	1.25	.625	.6875	—	1.5	3	1.25	3.60
44	P448M30-SDS	SDS	4.411	4.357	4.750	BF-1	1.6875	0.1875	1.31	—	.75	—	1.5	3.5	1.25	3.80
48	P488M30-SDS	SDS	4.812	4.758	5.157	BF-1	2	0.1875	1.3125	—	.75	—	1.5	3.8	1.25	4.20
56	P568M30-SDS	SDS	5.614	5.560	5.937	BF-1	2	0.1875	1.3125	—	.75	—	1.5	4.6	1.25	4.80
64	P648M30-SK	SK	6.416	6.362	6.750	CF-1	2	0.375	1.875	—	.25	—	1.5	5.4	1.25	6.10
72	P728M30-SK	SK	7.218	7.164	7.562	CF-1	3	0.375	1.875	—	.25	—	1.5	6.2	1.25	6.80
80	P808M30-SK	SK	8.020	7.966	8.375	CF-2	2.625	0.375	1.875	—	.25	—	1.5	6.9	1.25	7.50
90	P908M30-SK	SK	9.023	8.969	—	C-2	2.625	0.375	1.875	—	.25	—	1.5	7.6	—	11.00
112	P1128M30-SK	SK	11.229	11.175	—	C-3	2.625	0.375	1.875	—	.25	—	1.5	9.87	—	13.00
144	P1448M30-SF	SF	14.447	14.383	—	C-3	2.938	0.563	2.063	—	.25	—	1.5	12.88	—	25.50
192	P1928M30-E	E	19.249	19.195	—	C-3	—	1.3125	2.625	.625	.6	—	1.5	17.63	—	30.00
Taper Bushed 30mm (1.18in.) Wide Belts (8M-30)																
24	P248M30-1108	1108	2.406	2.352	2.75	KF-1	1	0.125	0.875	.5	—	—	1.5	1.783	1.250	.9
26	P268M30-1108	1108	2.607	2.553	2.94	KF-1	1	0.125	0.875	.5	—	—	1.5	1.971	1.250	1.2
28	P288M30-1108	1108	2.807	2.753	3.16	KF-1	1	0.125	0.875	.5	—	—	1.5	2	1.250	1.6
30	P308M30-1210	1210	3.008	2.954	3.34	KF-1	1.25	0.125	1	0.4	—	—	1.5	2.345	1.25	1.5
32	P328M30-1210	1210	3.208	3.154	3.56	KF-1	1.25	0.125	1	0.4	—	—	1.5	2.56	1.25	1.9
34	P348M30-1610	1610	3.409	3.355	3.75	KF-1	1.6875	0.125	1	0.4	—	—	1.5	3	1.25	2.3
36	P368M30-1610	1610	3.609	3.555	3.94	KF-1	1.69	0.125	1	0.375	—	—	1.5	2.82	1.25	2.2
38	P388M30-1610	1610	3.810	3.756	4.16	KF-1	1.69	0.125	1	0.375	—	—	1.5	3	1.25	2.7
40	P408M30-2012	2012	4.010	3.956	4.34	KF-1	2.125	—	1	0.25	—	—	1.5	3.25	1.25	2.4
44	P448M30-2012	2012	4.411	4.357	4.75	KF-1	2.125	—	1	—	0.25	—	1.5	3.5	1.25	3.4
48	P488M30-2012	2012	4.812	4.758	5.16	KF-1	2.125	—	1	—	0.25	—	1.5	4	1.25	4.5
56	P568M30-2012	2012	5.614	5.560	5.94	KF-1	2.125	—	1.25	—	0.25	—	1.5	4.6	1.25	7.0
64	P648M30-2517	2517	6.416	6.362	6.75	CF-1	2.6875	—	1.75	—	0.25	4.875	1.5	—	1.25	8.9
72	P728M30-2517	2517	7.218	7.164	7.56	CF-1	2.6875	—	1.75	—	0.25	4.875	1.5	—	1.25	12.1
80	P808M30-2517	2517	8.020	7.966	8.38	CF-2	2.6875	—	1.75	—	0.25	4.875	1.5	—	1.25	15.8
90	P908M30-2517	2517	9.023	8.969	—	C-2	2.6875	0.125	1.75	—	0.125	4.875	1.5	7.63	—	13.8
112	P1128M30-2517	2517	11.229	11.175	—	C-3	2.6875	0.125	1.75	—	0.125	4.875	1.5	9.88	—	23.5
144	P1448M30-2517	2517	14.437	14.383	—	C-3	2.6875	0.25	1.75	—	—	4.875	1.5	12.88	—	21.3

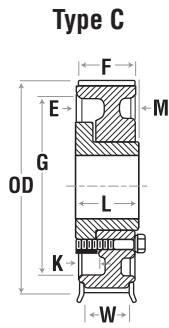
* Weight Shown is for Sprocket Less Bushing.
• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.



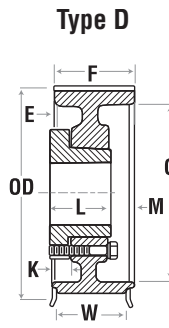
Type A

Type AF



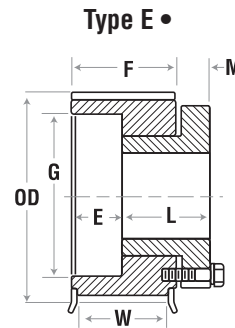
Type C

Type CF



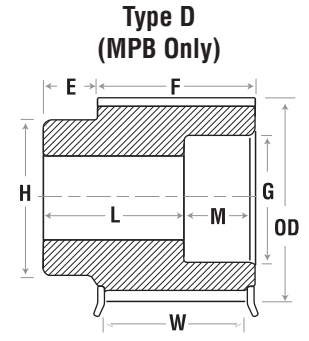
Type D

Type DF



Type E •

Type EF •



Type D
(MPB Only)

Type DF
(MPB Only)

No. of Teeth	Catalog Number	Bore	Pitch	Diameter		Type +	Max Bore	Dimensions							Weight Approx. (lbs.)	
				O.D.	Flange			E	L	M	K	H	F	G		W
MPB 50mm (1.97 in.) Wide Belts (8M-50)																
28	P288M50-MPB	0.5	2.807	2.753	3.156	DF-1	1.25	0.75	3.125	—	—	0.9062	2.375	—	2.125	4.2
30	P308M50-MPB	0.5	3.008	2.954	3.344	DF-1	1.25	0.75	3.125	—	—	2.4687	2.375	—	2.125	4.9
32	P328M50-MPB	0.5	3.208	3.154	3.562	DF-1	1.625	0.75	3.125	—	—	2.5937	2.375	—	2.125	5.4
QD 50mm (1.97 in.) Wide Belts (8M-50)																
32	P328M50-H	H	3.208	3.154	3.562	AF-1	1.375	0.5	1.25	0.625	0.75	—	2.375	2.56	2.125	2.9
34	P348M50-SH	SH	3.409	3.355	3.750	AF-1	1.6875	—	1.25	1.125	0.5	—	2.375	2.75	2.125	3.2
36	P368M50-SH	SH	3.609	3.555	3.937	AF-1	1.6875	—	1.25	1.125	0.5	—	2.375	2.82	2.125	3.8
38	P388M50-SH	SH	3.810	3.756	4.156	AF-1	1.6875	—	1.25	1.125	0.5	—	2.375	3.00	2.125	4.2
40	P408M50-SH	SH	4.010	3.956	4.344	AF-1	1.6875	—	1.25	1.125	0.5	—	2.375	3.00	2.125	4.6
44	P448M50-SD	SD	4.411	4.357	4.750	AF-1	2	—	1.8125	0.5625	0.5625	—	2.375	3.50	2.125	5.2
48	P488M50-SD	SD	4.812	4.758	5.157	AF-1	2	—	1.8125	0.5625	0.5625	—	2.375	3.80	2.125	6.0
56	P568M50-SK	SK	5.614	5.560	5.937	DF-1	2.625	0.0625	1.875	0.5625	0.5625	—	2.375	4.60	2.125	7.6
64	P648M50-SK	SK	6.416	6.362	6.750	DF-1	2.625	0.0625	1.875	0.5625	0.5625	—	2.375	5.40	2.125	10.3
72	P728M50-SK	SK	7.218	7.164	7.562	DF-1	2.625	0.0625	1.875	0.5625	0.5625	—	2.375	6.20	2.125	13.3
80	P808M50-SF	SF	8.020	7.966	8.326	DF-1	2.875	0.0625	2	0.4375	0.5625	—	2.375	6.90	2.125	12.7
90	P908M50-SF	SF	9.023	8.969	—	D-2	2.875	0.0625	2	0.4375	0.5625	—	2.375	7.62	2.125	16.0
112	P1128M50-SF	SF	11.229	11.175	—	D-3	2.875	0.0625	2	0.4375	0.5625	—	2.375	9.88	2.125	21.0
144	P1448M50-E	E	14.437	14.383	—	D-3	3.5	0.5	2.625	2	0.375	—	2.375	12.88	2.125	35.0
192	P1928M50-E	E	19.249	19.195	—	D-3	3.5	0.5	2.625	2	0.375	—	2.375	17.63	2.125	45.0
144	P1448M30-SF	SF	14.447	14.383	—	C-3	2.938	0.563	2.063	—	.25	—	1.5	12.88	—	25.50
192	P1928M30-E	E	19.249	19.195	—	C-3	—	1.3125	2.625	.625	.6	—	1.5	17.63	—	30.00
Taper Bushed 50mm (1.97 in.) Wide Belts (8M-50)																
28	P288M50-1108	1108	2.807	2.753	3.16	KF-1	1	—	0.875	1.5	—	—	2.375	2.000	2.125	2.1
30	P308M50-1210	1210	3.008	2.954	3.34	KF-1	1.25	—	1	1.375	—	—	2.375	2.345	2.125	2.2
32	P328M50-1210	1210	3.208	3.154	3.56	KF-1	1.25	—	1	1.375	—	—	2.375	2.560	2.125	2.1
34	P348M50-1610	1610	3.409	3.355	3.75	KF-1	1.6875	—	1	1.375	—	—	2.375	2.750	2.125	2.1
36	P368M50-1610	1610	3.609	3.555	3.94	KF-1	1.6875	—	1	1.375	—	—	2.375	2.820	2.125	2.7
38	P388M50-1610	1610	3.810	3.756	4.16	KF-1	1.6875	—	1	1.375	—	—	2.375	3.000	2.125	3.1
40	P408M50-2012	2012	4.010	3.956	4.34	KF-1	2.125	—	1.25	1.125	—	—	2.375	3.250	2.125	3.4
44	P448M50-2012	2012	4.411	4.357	4.75	KF-1	2.125	—	1.25	1.125	—	—	2.375	3.500	2.125	4.3
48	P488M50-2012	2012	4.812	4.758	5.16	KF-1	2.125	—	1.25	1.125	—	—	2.375	3.800	2.125	5.5
56	P568M50-2517	2517	5.614	5.560	5.94	KF-1	2.6875	—	1.75	0.625	—	—	2.375	4.600	2.125	8.1
64	P648M50-2517	2517	6.416	6.362	6.75	KF-1	2.6875	—	1.75	0.625	—	—	2.375	5.400	2.125	11.7
72	P728M50-2517	2517	7.218	7.164	7.56	KF-1	2.6875	—	1.75	0.625	—	—	2.375	6.200	2.125	15.7
80	P808M50-2517	2517	8.020	7.966	8.38	KF-1	2.6875	—	1.75	0.625	—	—	2.375	6.900	2.125	20.3
90	P908M50-3020	3020	9.023	8.969	—	W-1	3.25	—	2	0.375	—	—	2.375	7.630	2.125	31.7
112	P1128M50-3020	3020	11.229	11.175	—	W-3	3.25	—	2	0.375	—	6.25	2.375	9.880	2.125	34.7
144	P1448M50-3020	3020	14.437	14.383	—	W-3	3.25	—	2	0.375	—	7.5	2.375	12.880	2.125	36.0
192	P1928M50-3020	3020	19.249	19.195	—	W-3	3.25	—	2	0.375	—	7.5	2.375	17.630	2.125	67.2

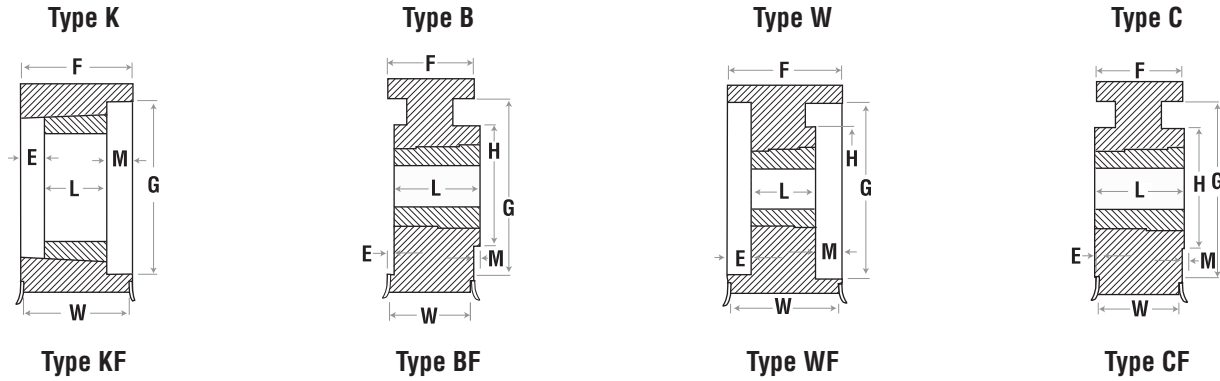
* Weight Shown is for Sprocket Less Bushing.

• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

High Torque Sprockets

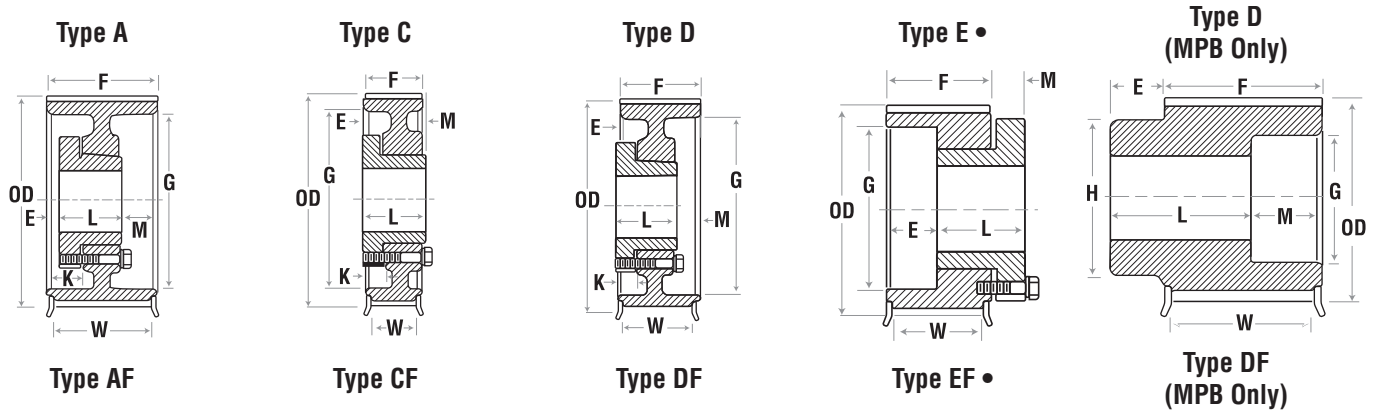
8mm



No. of Teeth	Catalog Number	Bore	Pitch	Diameter		Type +	Max Bore	Dimensions							Weight Approx. (lbs.)	
				O.D.	Flange			E	L	M	K	H	F	G		W
MPB 85mm (3.35 in.) Wide Belts (8M-85)																
34	P348M85-MPB	0.75	3.409	3.355	3.750	DF-1	1.6875	0.75	4.5	—	—	2.7968	3.75	—	3.5	10.00
36	P368M85-MPB	0.75	3.609	3.555	3.937	DF-1	1.75	0.75	4.5	—	—	3	3.75	—	3.5	11.30
38	P388M85-MPB	0.75	3.810	3.756	4.156	DF-1	1.9375	0.75	4.5	—	—	3.1875	3.75	—	3.5	12.60
40	P408M85-MPB	0.75	4.010	3.956	4.344	DF-1	2.125	0.75	4.5	—	—	3.4062	3.75	—	3.5	14.90
44	P448M85-MPB	0.75	4.411	4.357	4.750	DF-1	2.25	0.75	4.5	—	—	3.7968	3.75	—	3.5	17.20
48	P488M85-MPB	0.75	4.812	4.758	5.157	DF-1	2.5	0.75	4.5	—	—	4.1875	3.75	—	3.5	20.60
56	P568M85-MPB	0.875	5.614	5.560	5.937	DF-1	3	0.75	4.5	—	—	5	3.75	—	3.5	28.00
QD 85mm (3.35 in.) Wide Belts (8M-85)																
34	P348M85-SH	SH	3.409	3.355	3.819	AF-1	1.6875	1	1.25	1.5	1.5	—	3.75	2.75	3.5	4.6
36	P368M85-SH	SH	3.609	3.555	3.937	AF-1	1.6875	1	1.25	1.5	1.5	—	3.75	2.82	3.5	5.2
38	P388M85-SH	SH	3.810	3.756	4.134	AF-1	1.6875	1	1.25	1.5	1.5	—	3.75	3.00	3.5	5.8
40	P408M85-SD	SD	4.010	3.956	4.344	AF-1	2	0.6875	1.8125	1.25	1.25	—	3.75	3.25	3.5	5.6
44	P448M85-SD	SD	4.411	4.357	4.750	AF-1	2	0.6875	1.8125	1.25	1.25	—	3.75	3.50	3.5	6.2
48	P488M85-SD	SD	4.812	4.758	5.157	AF-1	2	0.6875	1.8125	1.25	1.25	—	3.75	3.80	3.5	7.8
56	P568M85-SK	SK	5.614	5.560	5.937	AF-1	2.625	0.625	1.875	1.25	1.25	—	3.75	4.60	3.5	9.8
64	P648M85-SF	SF	6.416	6.362	6.750	AF-1	2.625	0.625	1.875	1.25	1.25	—	3.75	5.40	3.5	13.0
72	P728M85-E	E	7.218	7.164	7.562	AF-1	2.9375	0.625	2	1.125	1.25	—	3.75	6.20	3.5	16.0
80	P808M85-E	E	8.020	7.966	8.375	AF-1	2.9375	0.625	2	1.125	1.25	—	3.75	6.90	3.5	17.0
90	P908M85-E	E	9.023	8.969	—	A-2	2.9375	0.625	2	1.125	1.25	—	3.75	7.62	—	20.0
112	P1128M85-F	F	11.229	11.175	—	A-3	2.9375	0.625	2	1.125	1.25	—	3.75	9.88	—	28.0
144	P1448M85-F	F	14.447	14.383	—	A-3	4	0.375	3.625	14	0.25	—	3.75	12.88	3.5	79.0
192	P1928M85-F	F	19.249	19.195	—	A-3	4	0.375	3.625	0.5	0.625	—	3.75	17.65	3.5	101.4
Taper Bushed 85mm (3.35 in.) Wide Belts (8M-85)																
34	P348M85-1615	1615	3.409	3.355	3.75	WF-1	1.6875	0.75	1.5	1.5	—	—	3.75	2.750	3.5	3.3
36	P368M85-1615	1615	3.609	3.555	3.94	WF-1	1.6875	0.75	1.5	1.5	—	—	3.75	2.820	3.5	4.2
38	P388M85-1615	1615	3.810	3.756	4.16	WF-1	1.6875	0.75	1.5	1.5	—	—	3.75	3.000	3.5	4.7
40	P408M85-2012	2012	4.010	3.956	4.34	WF-1	2.125	1.25	1.25	1.25	—	—	3.75	3.250	3.5	4.7
44	P448M85-2012	2012	4.411	4.357	4.75	WF-1	2.125	1.25	1.25	1.25	—	—	3.75	3.500	3.5	6.4
48	P488M85-2012	2012	4.812	4.758	5.16	WF-1	2.125	1.25	1.25	1.25	—	—	3.75	3.800	3.5	8.0
56	P568M85-2517	2517	5.614	5.560	5.94	WF-1	2.6875	1	1.75	1	—	—	3.75	4.500	3.5	11.0
64	P648M85-2517	2517	6.416	6.362	6.75	WF-1	2.6875	1	1.75	1	—	—	3.75	5.400	3.5	15.0
72	P728M85-3020	3020	7.218	7.164	7.56	WF-1	3.25	0.875	2	0.875	—	—	3.75	6.200	3.5	18.2
80	P808M85-3020	3020	8.020	7.966	8.38	WF-1	3.25	0.875	2	0.875	—	—	3.75	6.900	3.5	24.2
90	P908M85-3020	3020	9.023	8.969	—	W-1	3.25	0.875	2	0.875	—	—	3.75	7.630	—	31.9
112	P1128M85-3020	3020	11.229	11.175	—	W-3	3.25	0.875	2	0.875	—	6.25	3.75	9.880	—	34.6
144	P1448M85-3535	3535	14.437	14.383	—	W-3	3.9375	0.125	3.5	0.125	—	7	3.75	12.880	—	49.6
192	P1928M85-3535	3535	19.249	19.195	—	W-3	3.9375	0.125	3.5	0.125	—	7	3.75	17.630	—	81.4

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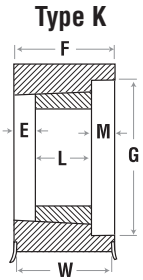


No. of Teeth	Catalog Number	Bore	Pitch	Diameter		Type +	Max Bore	Dimensions							Weight Approx. (lbs.)	
				O.D.	Flange			E	L	M	K	H	F	G		W
QD 40mm (1.570 in.) Wide Belts (140M-40)																
28	P2814M40-SK	SK	4.912	4.802	5.56	• EF-1	2.625	0.875	1.875	0.625	—	—	2.125	3.13	1.8125	5.5
29	P2914M40-SK	SK	5.088	4.978	5.56	• EF-1	2.625	0.875	1.875	0.625	—	—	2.125	3.13	1.8125	6.5
30	P3014M40-SK	SK	5.263	5.153	6.13	DF-1	2.625	0.1875	1.875	0.4375	—	—	2.125	3.92	1.8125	6.0
32	P3214M40-SK	SK	5.614	5.504	6.13	DF-1	2.625	0.1875	1.875	0.4375	0.4375	—	2.125	3.92	1.8125	8.0
34	P3414M40-SK	SK	5.965	5.855	6.50	DF-1	2.625	0.1875	1.875	0.4375	0.4375	—	2.125	4.06	1.8125	8.5
36	P3614M40-SF	SF	6.316	6.206	6.81	DF-1	2.875	0.1875	2	0.3125	0.4375	—	2.125	4.69	1.8125	9.5
38	P3814M40-SF	SF	6.667	6.557	7.16	DF-1	2.875	0.1875	2	0.3125	0.4375	—	2.125	4.94	1.8125	11.5
40	P4014M40-SF	SF	7.018	6.909	7.50	DF-1	2.875	0.1875	2	0.3125	0.4375	—	2.125	5.06	1.8125	13.0
44	P4414M40-E	E	7.720	7.610	8.22	DF-1	3.5	0.625	2.625	0.125	0.25	—	2.125	6.12	1.8125	16.5
48	P4814M40-E	E	8.421	8.311	8.94	DF-1	3.5	0.625	2.625	0.125	0.25	—	2.125	6.50	1.8125	20.0
52	P5214M40-E	E	9.123	9.013	9.69	DF-1	3.5	0.625	2.625	0.125	0.25	—	2.125	7.18	1.8125	24.0
56	P5614M40-E	E	9.825	9.715	10.38	DF-1	3.5	0.625	2.625	0.125	0.25	—	2.125	7.88	1.8125	28.0
60	P6014M40-E	E	10.527	10.417	11.06	DF-1	3.5	0.625	2.625	0.125	0.25	—	2.125	8.50	1.8125	32.0
64	P6414M40-E	E	11.229	11.119	11.75	DF-2	3.5	0.625	2.625	0.125	0.25	—	2.125	9.25	1.8125	29.0
68	P6814M40-E	E	11.930	11.820	12.50	DF-2	3.5	0.625	2.625	0.125	0.25	—	2.125	10.00	1.8125	31.0
72	P7214M40-E	E	12.632	12.522	13.19	DF-2	3.5	0.625	2.625	0.125	0.25	—	2.125	10.69	1.8125	33.0
80	P8014M40-E	E	14.036	13.926	14.63	DF-2	3.5	0.625	2.625	0.125	0.25	—	2.125	12.13	1.8125	38.0
90	P9014M40-E	E	15.790	15.680	—	D-3	3.5	0.625	2.625	0.125	0.25	—	2.125	14.00	—	39.0
112	P11214M40-E	E	19.650	19.540	—	D-3	3.5	0.625	2.625	0.125	0.25	—	2.125	17.80	—	51.0
144	P14414M40-E	E	25.264	25.154	—	D-3	3.5	0.625	2.625	0.125	0.25	—	2.125	23.38	—	80.0
Taper Bushed 40mm (1.570 in.) Wide Belts (140M-40)																
28	P2814M40-2012	2012	4.912	4.802	5.56	KF-1	2.125	—	1.25	0.875	—	—	2.125	3.375	1.8125	3.5
29	P2914M40-2012	2012	5.088	4.978	5.56	KF-1	2.125	—	1.25	0.875	—	—	2.125	3.375	1.8125	3.9
30	P3014M40-2012	2012	5.263	5.153	6.13	KF-1	2.125	—	1.25	0.875	—	—	2.125	3.928	1.8125	6.4
32	P3214M40-2012	2012	5.614	5.504	6.13	KF-1	2.125	—	1.25	0.875	—	—	2.125	3.928	1.8125	8.0
34	P3414M40-2012	2012	5.965	5.855	6.50	KF-1	2.125	—	1.25	0.875	—	—	2.125	4.063	1.8125	9.4
36	P3614M40-2517	2517	6.316	6.206	6.81	KF-1	2.6875	—	1.75	0.375	—	—	2.125	4.688	1.8125	10.5
38	P3814M40-2517	2517	6.667	6.557	7.16	KF-1	2.6875	—	1.75	0.375	—	—	2.125	4.813	1.8125	12.2
40	P4014M40-2517	2517	7.018	6.908	7.50	KF-1	2.6875	—	1.75	0.375	—	—	2.125	5.188	1.8125	14.2
44	P4414M40-2517	2517	7.720	7.610	8.22	KF-1	2.6875	—	1.75	0.375	—	—	2.125	6.125	1.8125	17.6
48	P4814M40-2517	2517	8.421	8.311	8.94	KF-1	2.6875	—	1.75	0.375	—	—	2.125	6.500	1.8125	22.0
52	P5214M40-2517	2517	9.123	9.013	9.69	KF-1	2.6875	—	1.75	0.375	—	—	2.125	7.188	1.8125	26.5
56	P5614M40-2517	2517	9.825	9.715	10.38	WF-2	2.6875	—	1.75	0.375	4.875	—	2.125	7.875	1.8125	21.5
60	P6014M40-3020	3020	10.527	10.417	11.06	WF-2	3.25	—	2	0.125	6.25	—	2.125	8.500	1.8125	33.7
64	P6414M40-3020	3020	11.229	11.119	11.75	WF-2	3.25	—	2	0.125	6.25	—	2.125	9.250	1.8125	36.5
68	P6814M40-3020	3020	11.930	11.820	12.50	WF-2	3.25	—	2	0.125	6.25	—	2.125	10.000	1.8125	39.3
72	P7214M40-3020	3020	12.632	12.522	13.19	WF-2	3.25	—	2	0.125	6.25	—	2.125	10.688	1.8125	42.6
80	P8014M40-3020	3020	14.036	13.926	14.63	WF-3	3.25	—	2	0.125	6.25	—	2.125	12.125	1.8125	38.8
90	P9014M40-3020	3020	15.790	15.680	—	W-3	3.25	—	2	0.125	6.25	—	2.125	13.563	—	44.5
112	P11214M40-3020	3020	19.650	19.540	—	W-3	3.25	—	2	0.125	6.25	—	2.125	17.375	—	64.9
144	P14414M40-3020	3020	25.264	25.154	—	W-3	3.25	—	2	0.125	6.25	—	2.125	23.000	—	97.4

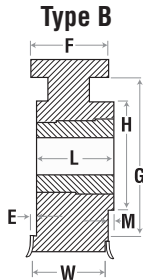
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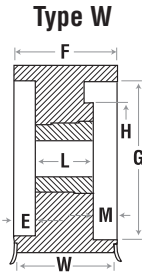
High Torque Sprockets 14mm



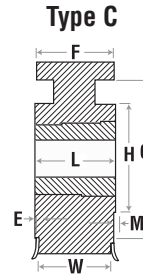
Type KF



Type BF



Type WF

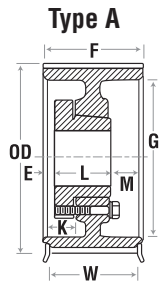


Type CF

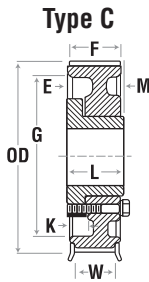
No. of Teeth	Catalog Number	Bore	Pitch	Diameter		Type +	Max Bore	Dimensions							Weight Approx (lbs.)	
				O.D.	Flange			E	L	M	K	H	F	G		W
QD 55mm (2.17 in.) Wide Belts (14M-55)																
28	P2814M55-SK	SK	4.912	4.808	5.56	•EF-1	2.625	1.5	1.875	0.625	—	—	2.75	3.13	2.4375	7.0
29	P2914M55-SK	SK	5.088	4.983	5.56	•EF-1	2.625	1.5	1.875	0.625	—	—	2.75	3.13	2.4375	8.0
30	P3014M55-SK	SK	5.263	5.157	6.13	AF-1	2.625	0.125	1.875	0.75	0.75	—	2.75	3.92	2.4375	7.5
32	P3214M55-SK	SK	5.614	5.507	6.13	AF-1	2.625	0.125	1.875	0.75	0.75	—	2.75	3.92	2.4375	9.0
34	P3414M55-SK	SK	5.965	5.858	6.50	AF-1	2.625	0.125	1.875	0.75	0.75	—	2.75	4.06	2.4375	10.0
36	P3614M55-SF	SF	6.316	6.208	6.81	AF-1	2.875	0.125	2	0.625	0.75	—	2.75	4.69	2.4375	11.0
38	P3814M55-SF	SF	6.667	6.559	7.16	AF-1	2.875	0.125	2	0.625	0.75	—	2.75	4.94	2.4375	13.0
40	P4014M55-SF	SF	7.018	6.909	7.50	AF-1	2.875	0.125	2	0.625	0.75	—	2.75	5.06	2.4375	15.0
44	P4414M55-E	E	7.720	7.610	8.22	DF-1	3.5	0.3125	2.625	0.4375	0.5625	—	2.75	6.12	2.4375	19.0
48	P4814M55-E	E	8.421	8.311	8.94	DF-1	3.5	0.3125	2.625	0.4375	0.5625	—	2.75	6.50	2.4375	23.0
52	P5214M55-E	E	9.123	9.013	9.69	DF-1	3.5	0.3125	2.625	0.4375	0.5625	—	2.75	7.18	2.4375	27.0
56	P5614M55-E	E	9.825	9.715	10.38	DF-1	3.5	0.3125	2.625	0.4375	0.5625	—	2.75	7.88	2.4375	32.0
60	P6014M55-E	E	10.527	10.417	11.06	DF-1	3.5	0.3125	2.625	0.4375	0.5625	—	2.75	8.50	2.4375	36.0
64	P6414M55-F	F	11.229	11.119	11.75	CF-1	4	0.875	3.625	—	0.125	—	2.75	9.25	2.4375	53.0
68	P6814M55-F	F	11.930	11.820	12.50	DF-2	4	0.875	3.625	—	0.125	—	2.75	10.00	2.4375	43.0
72	P7214M55-F	F	12.632	12.522	13.19	CF-2	4	0.875	3.625	—	0.125	—	2.75	10.69	2.4375	49.0
80	P8014M55-F	F	14.036	13.926	14.63	CF-2	4	0.875	3.625	—	0.125	—	2.75	12.13	2.4375	54.0
90	P9014M55-F	F	15.790	15.680	—	C-3	4	0.875	3.625	—	0.125	—	2.75	14.00	—	55.0
112	P11214M55-F	F	19.650	19.540	—	C-3	4	0.875	3.625	—	0.125	—	2.75	17.88	—	71.0
144	P14414M55-F	F	25.264	25.154	—	C-3	4	0.875	3.625	—	0.125	—	2.75	23.38	—	106.0
168	P16814M55-F	F	29.475	29.365	—	C-3	4	0.875	3.625	—	0.125	—	2.75	27.56	—	124.0
192	P19214M55-F	F	33.686	33.576	—	C-3	4	0.875	3.625	—	0.125	—	2.75	31.81	—	146.0
216	P21614M55-F	F	37.896	37.786	—	C-3	4	0.875	3.625	—	0.125	—	2.75	35.75	—	205.0
Taper Bushed 55mm (2.17 in.) Wide Belts (14M-55)																
28	P2814M55-2012	2012	4.912	4.802	5.56	KF-1	2.125	—	1.25	1.5	—	—	2.75	3.375	2.4375	7.4
29	P2914M55-2012	2012	5.088	4.978	5.56	KF-1	2.125	—	1.25	1.5	—	—	2.75	3.375	2.4375	8.4
30	P3014M55-2517	2517	5.263	5.153	6.13	KF-1	2.6875	—	1.75	1	—	—	2.75	3.928	2.4375	7.2
32	P3214M55-2517	2517	5.614	5.504	6.13	KF-1	2.6875	—	1.75	1	—	—	2.75	3.928	2.4375	9.3
34	P3414M55-2517	2517	5.965	5.855	6.50	KF-1	2.6875	—	1.75	1	—	—	2.75	4.063	2.4375	11.2
36	P3614M55-2517	2517	6.316	6.206	6.81	KF-1	2.6875	—	1.75	1	—	—	2.75	4.688	2.4375	12.4
38	P3814M55-2517	2517	6.667	6.557	7.16	KF-1	2.6875	—	1.75	1	—	—	2.75	4.813	2.4375	14.4
40	P4014M55-2517	2517	7.018	6.908	7.50	KF-1	2.6875	—	1.75	1	—	—	2.75	5.188	2.4375	16.7
44	P4414M55-2517	2517	7.720	7.610	8.22	KF-1	2.6875	—	1.75	1	—	—	2.75	6.125	2.4375	19.9
48	P4814M55-3020	3020	8.421	8.311	8.94	KF-1	3.25	—	2	0.75	—	—	2.75	6.500	2.4375	29.2
52	P5214M55-3020	3020	9.123	9.013	9.69	KF-1	3.25	—	2	0.75	—	—	2.75	7.188	2.4375	34.5
56	P5614M55-3020	3020	9.825	9.715	10.38	KF-1	3.25	—	2	0.75	—	—	2.75	7.875	2.4375	40.1
60	P6014M55-3020	3020	10.527	10.417	11.06	WF-2	3.25	—	2	0.75	—	6.25	2.75	8.500	2.4375	46.4
64	P6414M55-3020	3020	11.229	11.119	11.75	WF-2	3.25	—	2	0.75	—	6.25	2.75	9.250	2.4375	52.7
68	P6814M55-3020	3020	11.930	11.820	12.50	WF-2	3.25	—	2	0.75	—	6.25	2.75	10.000	2.4375	45.5
72	P7214M55-3020	3020	12.632	12.522	13.19	WF-2	3.25	—	2	0.75	—	6.25	2.75	10.688	2.4375	49.5
80	P8014M55-3020	3020	14.036	13.926	14.63	WF-3	3.25	—	2	0.75	—	6.25	2.75	12.125	2.4375	45.2
90	P9014M55-3020	3020	15.790	15.680	—	W-3	3.25	—	2	0.75	—	6.25	2.75	13.563	—	46.1
112	P11214M55-3020	3020	19.650	19.540	—	W-3	3.25	—	2	0.75	—	6.25	2.75	17.375	—	69.8
144	P14414M55-3020	3020	25.264	25.154	—	W-3	3.25	—	2	0.75	—	6.25	2.75	23.000	—	104.4
192	P19214M55-3535	3535	33.686	33.576	—	C-3	3.9375	0.38	3.5	0.375	—	7	2.75	31.375	—	104.2

* Weight Shown is for Sprocket Less Bushing.
• Reverse Mount Only

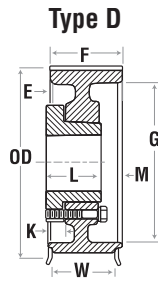
+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.



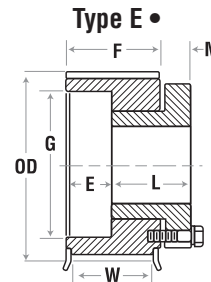
Type AF



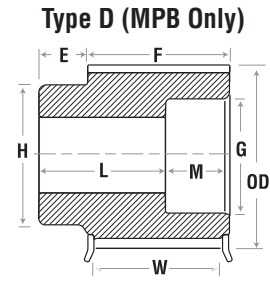
Type CF



Type DF



Type EF



Type DF (MPB Only)

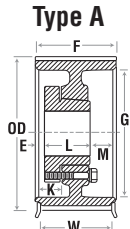
No. of Teeth	Catalog Number	Bore	Pitch	Diameter		Type +	Max Bore	Dimensions								Weight Approx (lbs.)
				O.D.	Flange			E	L	M	K	H	F	G	W	
MPB 85mm (3.35in.) Wide Belts (14M-85)																
28	P2814M85-MPB	1.25	4.912	4.802	5.56	DF-1	2.3125	1	4	1	—	3.6875	4	3.13	3.6875	18.0
29	P2914M85-MPB	1.25	5.088	4.983	5.56	DF-1	2.3125	1	4	1	—	3.6875	4	3.13	3.6875	19.4
30	P3014M85-MPB	1.25	5.263	5.157	6.13	DF-1	2.5	1	4	1	—	0.7656	4	3.72	3.6875	20.6
32	P3214M85-MPB	1.25	5.614	5.507	6.13	DF-1	2.5	1	4	1	—	0.7656	4	3.72	3.6875	23.4
34	P3414M85-MPB	1.25	5.965	5.858	6.50	DF-1	2.6875	1	4	1	—	4.4843	4	4.06	3.6875	27.4
QD 85mm (3.35in.) Wide Belts (14M-85)																
30	P3014M85-SK	SK	5.293	5.157	6.13	AF-1	2.625	0.75	1.875	1.375	1.375	—	4	3.92	3.6875	10.0
32	P3214M85-SK	SK	5.614	5.507	6.13	AF-1	2.875	0.75	1.875	1.375	1.375	—	4	3.92	3.6875	13.0
34	P3414M85-SK	SK	5.965	5.853	6.13	AF-1	2.875	0.75	1.875	1.375	1.375	—	4	4.06	3.6875	14.0
36	P3614M85-SF	SF	6.316	6.206	6.81	AF-1	2.875	0.75	2	1.25	1.375	—	4	4.69	3.6875	15.0
38	P3814M85-SF	SF	6.667	6.557	7.16	AF-1	2.875	0.75	2	1.25	1.375	—	4	4.94	3.6875	18.0
40	P4014M85-SF	SF	7.018	6.909	7.50	AF-1	2.875	0.75	2	1.25	1.375	—	4	5.06	3.6875	20.0
44	P4414M85-E	E	7.720	7.610	8.22	AF-1	3.5	0.3125	2.625	0.6875	0.8125	—	4	6.12	3.6875	25.0
48	P4814M85-E	E	8.421	8.311	8.94	AF-1	3.5	0.3125	2.625	0.6875	0.8125	—	4	6.50	3.6875	29.0
52	P5214M85-E	E	9.123	9.013	9.69	AF-1	3.5	0.3125	2.625	0.6875	0.8125	—	4	7.18	3.6875	32.0
56	P5614M85-F	F	9.825	9.715	10.38	DF-1	4	0.25	3.625	0.625	0.75	—	4	7.88	3.6875	46.0
60	P6014M85-F	F	10.527	10.417	11.06	DF-1	4	0.25	3.625	0.625	0.75	—	4	8.50	3.6875	51.0
64	P6414M85-F	F	11.229	11.119	11.75	DF-1	4	0.25	3.625	0.625	0.75	—	4	9.25	3.6875	62.0
68	P6814M85-F	F	11.930	11.820	12.50	DF-2	4	0.25	3.625	0.625	0.75	—	4	10.00	3.6875	51.0
72	P7214M85-F	F	12.632	12.522	13.19	DF-2	4	0.25	3.625	0.625	0.75	—	4	10.69	3.6875	60.0
80	P8014M85-F	F	14.036	13.926	14.63	DF-2	4	0.25	3.625	0.625	0.75	—	4	12.13	3.6875	66.0
90	P9014M85-F	F	15.790	15.680	—	D-3	4	0.25	3.625	0.625	0.75	—	4	14.00	—	69.0
112	P11214M85-F	F	19.650	19.540	—	D-3	4	0.25	3.625	0.625	0.75	—	4	17.88	—	89.0
144	P14414M85-F	F	25.264	25.154	—	D-3	4	0.25	3.625	0.625	0.75	—	4	23.38	—	127.0
168	P16814M85-J	J	29.475	29.365	—	D-3	4.5	0.25	3.625	0.625	0.75	—	4	27.56	—	148.0
192	P19214M85-J	J	33.686	33.576	—	D-3	4.5	0.25	3.625	0.625	0.75	—	4	31.81	—	177.0
216	P21614M85-J	J	37.896	37.786	—	D-3	4.5	0.25	3.625	0.625	0.75	—	4	35.75	—	251.0
Taper Bushed 85mm (3.35in.) Wide Belts (14M-85)																
30	P3014M85-2517	2517	5.263	5.153	6.13	WF-1	2.5	0.5	1.75	1.75	—	—	4	3.928	3.6875	9.7
32	P3214M85-2517	2517	5.614	5.504	6.13	WF-1	2.6875	0.875	1.75	1.375	—	—	4	3.928	3.6875	12.7
34	P3414M85-2517	2517	5.965	5.855	6.50	WF-1	2.6875	0.875	1.75	1.375	—	—	4	4.063	3.6875	15.3
36	P3614M85-3020	3020	6.316	6.206	6.81	WF-1	3.25	0.5312	2	1.4687	—	—	4	4.688	3.6875	19.3
38	P3814M85-3020	3020	6.667	6.557	7.16	WF-1	3.25	0.5312	2	1.4687	—	—	4	4.813	3.6875	21.9
40	P4014M85-3020	3020	7.018	6.908	7.50	WF-1	3.25	0.5312	2	1.4687	—	—	4	5.063	3.6875	25.1
44	P4414M85-3020	3020	7.720	7.610	8.22	WF-1	3.25	0.5312	2	1.4687	—	—	4	6.125	3.6875	28.4
48	P4814M85-3020	3020	8.421	8.311	8.94	WF-1	3.25	0.5312	2	1.4687	—	—	4	6.500	3.6875	35.4
52	P5214M85-3535	3535	9.123	9.013	9.69	KF-1	3.9375	—	3.5	0.5	—	—	4	7.188	3.6875	42.9
56	P5614M85-3535	3535	9.825	9.715	10.38	KF-1	3.9375	—	3.5	0.5	—	—	4	7.875	3.6875	52.4
60	P6014M85-3535	3535	10.527	10.417	11.06	KF-1	3.9375	—	3.5	0.5	—	—	4	8.500	3.6875	62.7
64	P6414M85-3535	3535	11.229	11.119	11.75	KF-1	3.9375	—	3.5	0.5	—	—	4	9.250	3.6875	73.6
68	P6814M85-3535	3535	11.930	11.820	12.50	KF-1	3.9375	—	3.5	0.5	—	—	4	10.000	3.6875	64.2
72	P7214M85-3535	3535	12.632	12.522	13.19	KF-1	3.9375	—	3.5	0.5	—	—	4	10.688	3.6875	97.4
80	P8014M85-3535	3535	14.036	13.926	14.63	WF-2	3.9375	—	3.5	0.5	—	—	4	12.125	3.6875	68.4
90	P9014M85-3535	3535	15.790	15.680	—	W-3	3.9375	—	3.5	0.5	—	7	4	13.563	—	69.1
112	P11214M85-3535	3535	19.650	19.540	—	W-3	3.9375	—	3.5	0.5	—	7	4	17.375	—	85.7
144	P14414M85-4040	4040	25.264	25.154	—	W-3	4.4375	—	4	—	—	8.5	4	23.000	—	131.6
168	P16814M85-4040	4040	29.475	29.365	—	W-3	4.4375	—	4	—	—	8.5	4	27.250	—	146.1
192	P19214M85-4040	4040	33.686	33.576	—	W-3	4.4375	—	4	—	—	8.5	4	31.375	—	161.4

* Weight Shown is for Sprocket Less Bushing.
• Reverse Mount Only

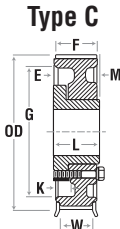
+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

High Torque Sprockets

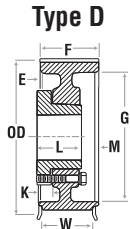
14mm



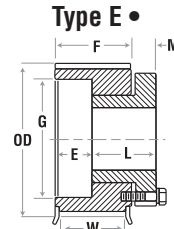
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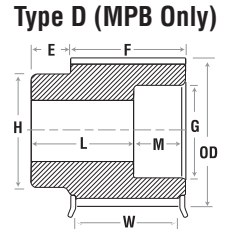
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Type DF



Type EF

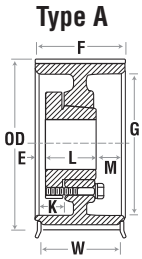


Type DF (MPB Only)

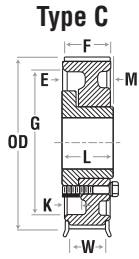
No. of Teeth	Catalog Number	Bore	Pitch	Diameter		Type +	Max Bore	Dimensions							Weight (lbs.)	
				O.D.	Flange			E	L	M	K	H	F	G		W
MPB 115mm (4.53 in.) Wide Belts (14M-115)																
28	P2814M115-MPB	1.25	4.912	4.808	5.56	DF-1	2.3125	1.25	5	1.5	—	3.6875	5.25	3.13	4.9375	23.2
29	P2914M115-MPB	1.25	5.088	4.983	5.56	DF-1	2.3125	1.25	5	1.5	—	3.6875	5.25	3.13	4.9375	24.8
30	P3014M115-MPB	1.25	5.263	5.157	6.13	DF-1	2.5	1.25	5	1.5	—	0.7656	5.25	3.90	4.9375	26.4
32	P3214M115-MPB	1.25	5.614	5.507	6.13	DF-1	2.5	1.25	5	1.5	—	0.7656	5.25	3.90	4.9375	30.8
34	P3414M115-MPB	1.25	5.965	5.858	6.50	DF-1	2.6875	1.25	5	1.5	—	4.4843	5.25	4.06	4.9375	35.2
36	P3614M115-MPB	1.25	6.316	6.208	6.81	DF-1	3	1.25	5	1.5	—	4.875	5.25	4.69	4.9375	38.8
38	P3814M115-MPB	1.25	6.667	6.559	7.16	DF-1	3.25	1.25	5	1.5	—	5.1718	5.25	4.94	4.9375	44.4
40	P4014M115-MPB	1.25	7.018	6.909	7.50	DF-1	3.4375	1.25	5	1.5	—	5.5625	5.25	5.06	4.9375	50.0
QD 115mm (4.53 in.) Wide Belts (14M-115)																
30	P3014M115-SK	1.25	5.263	5.157	6.13	AF-1	2.875	1.375	1.875	2	2	—	5.25	3.92	4.9375	12.0
32	P3214M115-SK	1.25	5.614	5.507	6.13	AF-1	2.875	1.375	1.875	2	2	—	5.25	3.92	4.9375	16.0
34	P3414M115-SK	1.25	5.965	5.858	6.50	AF-1	2.875	1.375	1.875	2	2	—	5.25	4.06	4.9375	17.0
36	P3614M115-SF	1.25	6.316	6.208	6.81	AF-1	3	1.375	2	1.875	2	—	5.25	4.69	4.9375	18.0
38	P3814M115-SF	1.25	6.667	6.559	7.16	AF-1	3	1.375	2	1.875	2	—	5.25	4.94	4.9375	22.0
40	P4014M115-SF	1.25	7.018	6.909	7.50	AF-1	3	1.375	2	1.875	2	—	5.25	5.06	4.9375	25.0
44	P4414M115-E	E	7.720	7.610	8.22	AF-1	3.5	0.9375	2.625	1.6875	1.8125	—	5.25	6.12	4.9375	30.0
48	P4814M115-E	E	8.421	8.311	8.94	AF-1	3.5	0.9375	2.625	1.6875	1.8125	—	5.25	6.50	4.9375	35.0
52	P5214M115-F	F	9.123	9.013	9.69	AF-1	4	0.375	3.625	1.25	1.375	—	5.25	7.18	4.9375	42.0
56	P5614M115-F	F	9.825	9.715	10.38	AF-1	4	0.375	3.625	1.25	1.375	—	5.25	7.88	4.9375	53.0
60	P6014M115-F	F	10.527	10.417	11.06	AF-1	4.5	0.375	3.625	1.25	1.375	—	5.25	8.50	4.9375	60.0
64	P6414M115-J	J	11.229	11.119	11.75	DF-1	4.5	0.1875	4.5	0.9375	1	—	5.25	9.25	4.9375	76.0
68	P6814M115-J	J	11.930	11.820	12.50	DF-1	4.5	0.1875	4.5	0.9375	1	—	5.25	10.00	4.9375	83.0
72	P7214M115-J	J	12.632	12.522	13.19	DF-1	4.5	0.1875	4.5	0.9375	1	—	5.25	10.69	4.9375	99.0
80	P8014M115-J	J	14.036	13.926	14.63	DF-2	4.5	0.1875	4.5	0.9375	1	—	5.25	12.13	4.9375	87.0
90	P9014M115-J	J	15.790	15.680	—	D-2	4.5	0.1875	4.5	0.9375	1	—	5.25	14.00	—	95.0
112	P11214M115-J	J	19.650	19.540	—	D-3	4.5	0.1875	4.5	0.9375	1	—	5.25	17.88	—	114.0
144	P14414M115-J	J	25.264	25.154	—	D-3	4.5	0.1875	4.5	0.9375	1	—	5.25	23.38	—	166.0
168	P16814M115-M	M	29.475	29.365	—	D-3	5.5	0.1875	4.5	0.9375	1	—	5.25	27.56	—	198.0
192	P19214M115-M	M	33.686	33.576	—	D-3	5.5	0.1875	4.5	0.9375	1	—	5.25	31.81	—	232.0
216	P21614M115-M	M	37.896	37.786	—	D-3	5.5	0.1875	4.5	0.9375	1	—	5.25	35.75	—	307.0
Taper Bushed 115mm (4.53 in.) Wide Belts (14M-115)																
30	P3014M115-2517	2517	5.263	5.153	6.13	WF-1	2.6875	1.75	1.75	1.75	—	—	5.25	3.928	4.9375	13.5
32	P3214M115-2517	2517	5.614	5.504	6.13	WF-1	2.6875	1.75	1.75	1.75	—	—	5.25	3.928	4.6875	17.3
34	P3414M115-2517	2517	5.965	5.855	6.50	WF-1	2.6875	1.75	1.75	1.75	—	—	5.25	4.063	4.6875	20.9
36	P3614M115-3020	3020	6.316	6.206	6.81	WF-1	3.25	1.625	2	1.625	—	—	5.25	4.688	4.6875	18.6
38	P3814M115-3020	3020	6.667	6.557	7.16	WF-1	3.25	1.625	2	1.625	—	—	5.25	4.813	4.6875	22.5
40	P4014M115-3020	3020	7.018	6.908	7.50	WF-1	3.25	1.625	2	1.625	—	—	5.25	5.063	4.6875	26.8
44	P4414M115-3535	3535	7.720	7.610	8.22	WF-1	3.9375	0.875	3.5	0.875	—	—	5.25	6.125	4.6875	30.8
48	P4814M115-3535	3535	8.421	8.311	8.94	WF-1	3.9375	0.875	3.5	0.875	—	—	5.25	6.500	4.6875	41.1
52	P5214M115-4040	4040	9.123	9.013	9.69	WF-1	4.4375	0.625	4	0.625	—	—	5.25	7.188	4.6875	46.9
56	P5614M115-4040	4040	9.825	9.715	10.38	WF-1	4.4375	0.625	4	0.625	—	—	5.25	7.875	4.6875	58.3
60	P6014M115-4040	4040	10.527	10.417	11.06	WF-1	4.4375	0.625	4	0.625	—	—	5.25	8.500	4.6875	70.9
64	P6414M115-4545	4545	11.229	11.119	11.75	WF-1	4.9375	0.375	4.5	0.375	—	—	5.25	9.250	4.6875	82.1
68	P6814M115-4545	4545	11.930	11.820	12.50	WF-1	4.9375	0.375	4.5	0.375	—	—	5.25	10.000	4.6875	97.1
72	P7214M115-4545	4545	12.632	12.522	13.19	WF-1	4.9375	0.375	4.5	0.375	—	—	5.25	10.688	4.6875	113.3
80	P8014M115-4545	4545	14.036	13.926	14.63	WF-2	4.9375	0.375	4.5	0.375	9.5	—	5.25	12.125	4.6875	108.9
90	P9014M115-4545	4545	15.790	15.680	—	W-2	4.9375	0.375	4.5	0.375	9.5	—	5.25	13.563	—	112.9
112	P11214M115-4545	4545	19.650	19.540	—	W-3	4.9375	0.375	4.5	0.375	9.5	—	5.25	17.375	—	122.4
144	P14414M115-4545	4545	25.264	25.154	—	W-3	4.9375	0.375	4.5	0.375	9.5	—	5.25	23.000	—	155.0
168	P16814M115-4545	4545	29.475	29.365	—	W-3	4.9375	0.375	4.5	0.375	9.5	—	5.25	27.250	—	188.0
192	P19214M115-4545	4545	33.686	33.576	—	W-3	4.9375	0.375	4.5	0.375	9.5	—	5.25	31.375	—	318.8
216	P21614M115-6050	6050	37.896	37.786	—	W-3	6	—	5	0.25	15.5	—	5.25	35.625	—	350.3

* Weight Shown is for Sprocket Less Bushing.
• Reverse Mount Only

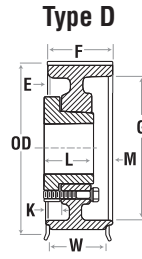
+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.



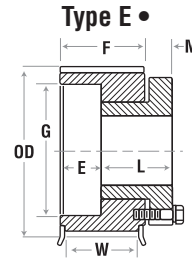
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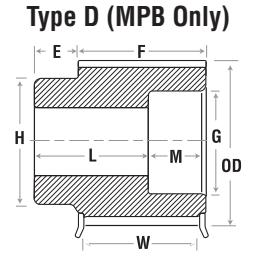
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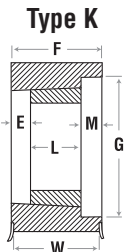
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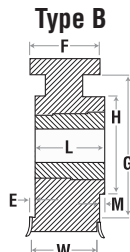
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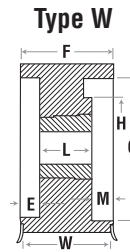
Type DF (MPB Only)



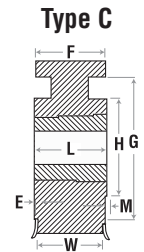
Type KF



Type BF



Type WF



Type CF

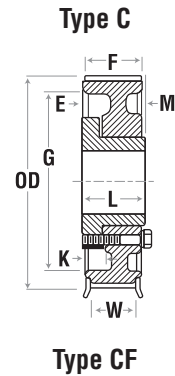
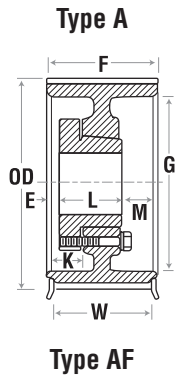
No. of Teeth	Catalog Number	Bore	Pitch	Diameter		Type +	Max Bore	Dimensions							Weight Approx (lbs.)	
				O.D.	Flange			E	L	M	K	H	F	G		W
MPB 170mm (6.69 in.) Wide Belts (14M-170)																
36	P3614M170-MPB	1.5	6.316	6.208	6.81	DF-1	3	1.125	6	2.625	—	4.875	7.375	4.69	7.0625	47.0
38	P3814M170-MPB	1.5	6.667	6.559	7.16	DF-1	3.125	1.125	6	2.625	—	5.1718	7.375	4.94	7.0625	55.7
40	P4014M170-MPB	1.5	7.018	6.909	7.50	DF-1	3.4375	1.125	6	2.625	—	5.5625	7.375	5.06	7.0625	63.7
44	P4414M170-MPB	1.5	7.720	7.610	8.22	DF-1	4.375	1.125	6	2.625	—	6.6406	7.375	6.13	7.0625	75.7
48	P4814M170-MPB	1.5	8.421	8.311	8.94	DF-1	4.5	1.125	6	2.625	—	6.9375	7.375	6.50	7.0625	94.0
QD 170mm (6.69 in.) Wide Belts (14M-170)																
44	P4414M170-E	E	7.720	7.610	8.22	AF-1	3.625	2	2.625	2.75	2.875	—	7.375	6.12	7.0625	38.0
48	P4814M170-E	E	8.421	8.311	8.94	AF-1	3.625	2	2.625	2.75	2.4375	—	7.375	6.50	7.0625	45.0
52	P5214M170-F	F	9.123	9.013	9.69	AF-1	4	1.4375	3.625	2.3125	2.4375	—	7.375	7.18	7.0625	52.0
56	P5614M170-F	F	9.825	9.715	10.38	AF-1	4	1.4375	3.625	2.3125	2.125	—	7.375	7.88	7.0625	65.0
60	P6014M170-J	J	10.527	10.417	11.06	AF-1	4.5	0.9375	4.5	1.9375	2.125	—	7.375	8.50	7.0625	75.0
64	P6414M170-J	J	11.229	11.119	11.75	AF-1	4.5	0.9375	4.5	1.9375	2.125	—	7.375	9.25	7.0625	91.0
68	P6814M170-J	J	11.930	11.820	12.50	AF-1	4.5	0.9375	4.5	1.9375	2.125	—	7.375	10.00	7.0625	96.0
72	P7214M170-J	J	12.632	12.522	13.19	AF-1	4.5	0.9375	4.5	1.9375	2.125	—	7.375	10.69	7.0625	115.0
80	P8014M170-J	J	14.036	13.926	14.63	AF-2	4.5	0.9375	4.5	1.9375	2.125	—	7.375	12.13	7.0625	107.0
90	P9014M170-J	J	15.790	15.680	—	A-2	4.5	0.9375	4.5	1.9375	2.125	—	7.375	14.00	—	116.0
112	P11214M170-M	M	19.650	19.540	—	A-3	5.5	—	6.75	0.625	1.4375	—	7.375	17.88	—	175.0
144	P14414M170-M	M	25.264	25.154	—	A-3	5.5	—	6.75	0.625	1.4375	—	7.375	23.38	—	240.0
168	P16814M170-M	M	29.475	29.365	—	A-3	5.5	—	6.75	0.625	1.4375	—	7.375	27.56	—	278.0
192	P19214M170-M	M	33.686	33.576	—	A-3	5.5	—	6.75	0.625	1.4375	—	7.375	31.81	—	322.0
216	P21614M170-M	M	37.896	37.786	—	A-3	5.5	—	6.75	0.625	1.4375	—	7.375	35.75	—	399.0
Taper Bushed 170mm (6.69 in.) Wide Belts (14M-170)																
44	P4414M170-3535	3535	7.720	7.610	8.22	WF-1	3.9375	1.9375	3.5	1.9375	—	—	7.375	6.13	7.0625	39.7
48	P4814M170-3535	3535	8.421	8.311	8.94	WF-1	3.9375	1.9375	3.5	1.9375	—	—	7.375	6.50	7.0625	52.8
52	P5214M170-4040	4040	9.123	9.013	9.69	WF-1	4.4375	1.6875	4	1.6875	—	—	7.375	7.19	7.0625	59.8
56	P5614M170-4040	4040	9.825	9.715	10.38	WF-1	4.4375	1.6875	4	1.6875	—	—	7.375	7.88	7.0625	72.4
60	P6014M170-4545	4545	10.527	10.417	11.06	WF-1	4.9375	1.4375	4.5	1.4375	—	—	7.375	8.50	7.0625	83.7
64	P6414M170-4545	4545	11.229	11.119	11.75	WF-1	4.9375	1.4375	4.5	1.4375	—	—	7.375	9.25	7.0625	98.6
68	P6814M170-4545	4545	11.930	11.820	12.50	WF-1	4.9375	1.4375	4.5	1.4375	—	—	7.375	10.00	7.0625	114.4
72	P7214M170-4545	4545	12.632	12.522	13.19	WF-1	4.9375	1.4375	4.5	1.4375	—	—	7.375	10.69	7.0625	131.8
80	P8014M170-4545	4545	14.036	13.926	14.63	WF-2	4.9375	1.4375	4.5	1.4375	—	9.5	7.375	12.13	7.0625	129.3
90	P9014M170-4545	4545	15.790	15.680	—	W-2	4.9375	1.4375	4.5	1.4375	—	9.5	7.375	13.56	—	126.8
112	P11214M170-4545	4545	19.650	19.540	—	W-3	4.9375	1.4375	4.5	1.1875	—	9.5	7.375	17.38	—	148.0
144	P14414M170-6050	6050	25.264	25.154	—	W-3	6	1.1875	5	1.1875	—	15.5	7.375	23.00	—	208.0
168	P16814M170-6050	6050	29.475	29.365	—	W-3	6	1.1875	5	1.1875	—	15.5	7.375	27.25	—	227.0
192	P19214M170-6050	6050	33.686	33.576	—	W-3	6	1.1875	5	1.1875	—	15.5	7.375	31.38	—	340.0
216	P21614M170-6050	6050	37.896	37.786	—	W-3	6	1.1875	5	1.1875	—	15.5	7.375	35.63	—	390.0

* Weight Shown is for Sprocket Less Bushing.
• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

High Torque Sprockets

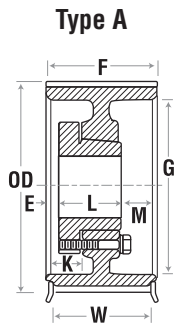
20mm



No. of Teeth	Catalog Number	Bore	Pitch	Diameter		Type +	Max Bore	Dimensions								Weight Approx. (lbs.)
				O.D.	Flange			E	L	M	K	H	F	G	W	
QD 115mm (4.53 in.) Wide Belts (20M-115)																
34	P3420M115-F	F	8.522	8.352	9.449	AF-1	4.00	0.44	3.63	1.31	1.44	—	5.38	6.88	5.0	32.0
36	P3620M115-F	F	9.023	8.853	9.843	AF-1	4.00	0.44	3.63	1.31	1.44	—	5.38	7.00	5.0	40.0
38	P3820M115-F	F	9.524	9.354	10.433	AF-1	4.00	0.44	3.63	1.31	1.44	—	5.38	7.56	5.0	45.0
40	P4020M115-F	F	10.026	9.856	10.827	AF-1	4.00	0.44	3.63	1.31	1.44	—	5.38	8.00	5.0	51.0
44	P4420M115-F	F	11.028	10.858	11.811	AF-1	4.00	0.44	3.63	1.31	1.44	—	5.38	8.93	5.0	63.0
48	P4820M115-J	J	12.031	11.861	12.795	AF-1	4.50	—	4.50	0.88	1.18	—	5.38	9.93	5.0	84.0
52	P5220M115-J	J	13.033	12.863	13.764	AF-2	4.50	—	4.50	0.88	1.18	—	5.38	10.88	5.0	80.0
56	P5620M115-J	J	14.036	13.866	14.764	AF-2	4.50	—	4.50	0.88	1.18	—	5.38	11.88	5.0	87.0
60	P6020M115-J	J	15.038	14.868	15.927	AF-2	4.50	—	4.50	0.88	1.18	—	5.38	13.06	5.0	94.0
64	P6420M115-J	J	16.041	15.871	16.929	AF-2	4.50	—	4.50	0.88	1.18	—	5.38	14.06	5.0	104.0
68	P6820M115-J	J	17.044	16.874	17.927	AF-2	4.50	—	4.50	0.88	1.18	—	5.38	15.00	5.0	110.0
72	P7220M115-J	J	18.046	17.876	18.898	AF-2	4.50	—	4.50	0.88	1.18	—	5.38	16.00	5.0	119.0
80	P8020M115-M	M	20.051	19.881	20.866	CF-2	5.50	1.25	6.75	0.12	0.18	—	5.38	18.00	5.0	182.0
90	P9020M115-M	M	22.558	22.388	23.425	CF-2	5.50	1.25	6.75	0.12	0.18	—	5.38	20.56	5.0	212.0
112	P11220M115-M	M	28.072	27.902	—	C-3	5.50	1.25	6.75	0.12	0.18	—	5.38	26.38	—	239.0
144	P14420M115-N	N	36.092	35.922	—	C-3	5.87	1.75	8.12	1.00	—	—	5.38	34.38	—	341.0
168	P16820M115-N	N	42.108	41.938	—	C-3	5.87	1.75	8.12	1.00	—	—	5.38	40.38	—	417.0
192	P19220M115-N	N	48.123	47.953	—	C-3	5.87	1.75	8.12	1.00	—	—	5.38	46.25	—	500.0
216	P21620M115-N	N	54.138	53.968	—	C-3	5.77	1.75	8.12	1.00	—	—	5.38	52.25	—	566.0

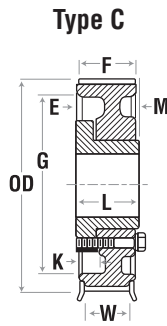
* Weight Shown is for Sprocket Less Bushing.
 • Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.



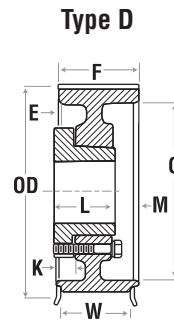
Type A

Type AF



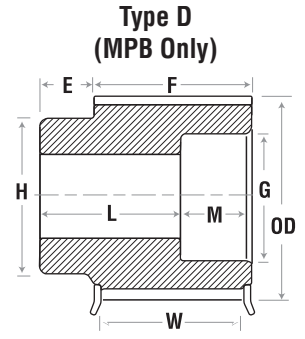
Type C

Type CF



Type D

Type DF



Type D
(MPB Only)

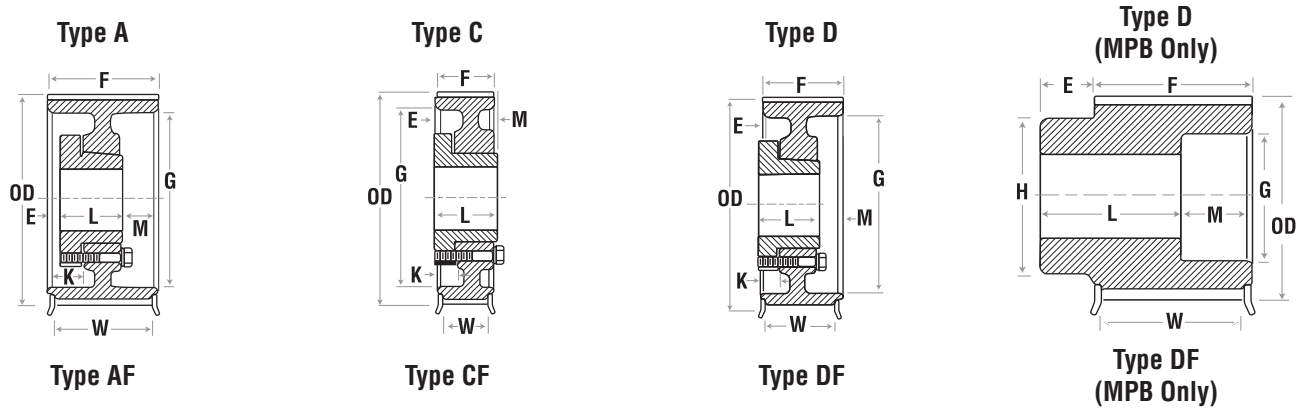
Type DF
(MPB Only)

No. of Teeth	Catalog Number	Bore	Pitch	Diameter		Type +	Max Bore	Dimensions								Weight Approx. (lbs.)
				O.D.	Flange			E	L	M	K	H	F	G	W	
QD 170mm (6.69 in.) Wide Belts (20M-170)																
34	P3420M170-MPB	2.125	8.522	8.352	9.449	DF-1	4.38	1.25	6.50	2.25	—	6.50	7.50	6.50	7.12	82.0
36	P3620M170-MPB	2.125	9.023	8.853	9.843	DF-1	4.50	1.25	6.50	2.25	—	7.00	7.50	7.00	7.12	93.0
MPB 170mm (6.69 in.) Wide Belts (20M-170)																
38	P3820M170-J	J	9.524	9.354	10.433	AF-1	4.50	1.00	4.50	2.00	2.18	—	7.50	7.56	7.12	56.0
40	P4020M170-J	J	10.026	9.856	10.827	AF-1	4.50	1.00	4.50	2.00	2.18	—	7.50	8.00	7.12	64.0
44	P4420M170-J	J	11.028	10.858	11.811	AF-1	4.50	1.00	4.50	2.00	2.18	—	7.50	8.93	7.12	81.0
48	P4820M170-M	M	12.031	11.861	12.795	AF-1	5.50	0.06	6.75	0.68	1.50	—	7.50	9.93	7.12	113.0
52	P5220M170-M	M	13.033	12.863	13.764	AF-1	5.50	0.06	6.75	0.68	1.50	—	7.50	10.88	7.12	141.0
56	P5620M170-M	M	14.036	13.866	14.764	AF-1	5.50	0.06	6.75	0.68	1.50	—	7.50	11.88	7.12	170.0
60	P6020M170-M	M	15.038	14.868	15.927	AF-1	5.50	0.06	6.75	0.68	1.50	—	7.50	13.06	7.12	199.0
64	P6420M170-M	M	16.041	15.871	16.929	AF-2	5.50	0.06	6.75	0.68	1.50	—	7.50	14.06	7.12	175.0
68	P6820M170-M	M	17.044	16.874	17.927	AF-2	5.50	0.06	6.75	0.68	1.50	—	7.50	15.00	7.12	187.0
72	P7220M170-M	M	18.046	17.876	18.898	AF-2	5.50	0.06	6.75	0.68	1.50	—	7.50	16.00	7.12	196.0
80	P8020M170-M	M	20.051	19.881	20.866	AF-2	5.50	0.06	6.75	0.68	1.50	—	7.50	18.00	7.12	214.0
90	P9020M170-M	M	22.558	22.388	23.425	AF-2	5.50	0.06	6.75	0.68	1.50	—	7.50	20.56	7.12	250.0
112	P11220M170-N	N	28.072	27.902	—	C-3	5.87	0.50	8.12	0.12	1.25	—	7.50	26.25	7.12	309.0
144	P14420M170-N	N	36.092	35.922	—	C-3	5.87	0.50	8.12	0.12	1.25	—	7.50	34.25	—	426.0
168	P16820M170-P	P	42.108	41.938	—	C-3	7.00	0.90	9.38	0.94	1.06	—	7.50	40.25	—	571.0
192	P19220M170-P	P	48.123	47.953	—	C-3	7.00	0.94	9.38	0.94	1.06	—	7.50	46.25	—	652.0
216	P21620M170-P	P	54.138	53.968	—	C-3	7.00	0.94	9.38	0.94	1.06	—	7.50	52.12	—	813.0

* Weight Shown is for Sprocket Less Bushing.
• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

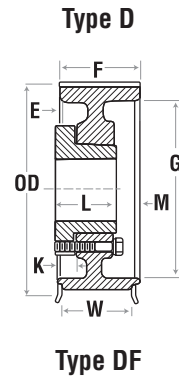
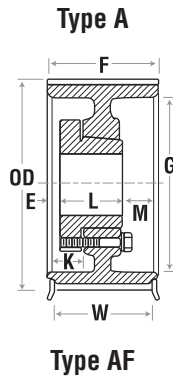
High Torque Sprockets 20mm



No. of Teeth	Catalog Number	Bore	Pitch	Diameter		Type +	Max Bore	Dimensions								Weight Approx. (lbs.)
				O.D.	Flange			E	L	M	K	H	F	G	W	
MPB 230mm (9.06 in.) Wide Belts (20M-230)																
38	P3820M230-MPB	2.875	9.524	9.354	10.433	DF-1	4.75	1.25	7.50	3.63	—	7.50	9.88	7.56	9.50	120.0
40	P4020M230-MPB	2.875	10.026	9.856	10.827	DF-1	5.25	1.25	8.50	2.63	—	8.00	9.88	8.00	9.50	147.0
44	P4420M230-MPB	2.875	11.028	10.858	11.811	DF-1	5.25	1.25	8.50	2.63	—	8.25	9.88	8.93	9.50	180.0
QD 230mm (9.06 in.) Wide Belts (20M-230)																
48	P4820M230-M	M	12.031	11.861	12.795	AF-1	5.50	0.56	6.75	2.56	2.00	—	9.88	9.93	9.50	129.0
52	P5220M230-M	M	13.033	12.863	13.764	AF-1	5.50	0.56	6.75	2.56	2.00	—	9.88	10.88	9.50	158.0
56	P5620M230-M	M	14.036	13.866	14.764	AF-1	5.50	0.56	6.75	2.56	2.00	—	9.88	11.88	9.50	189.0
60	P6020M230-M	M	15.038	14.868	15.927	AF-1	5.50	0.56	6.75	2.56	2.00	—	9.88	13.06	9.50	217.0
64	P6420M230-M	M	16.041	15.871	16.929	AF-2	5.50	0.56	6.75	2.56	2.00	—	9.88	14.06	9.50	198.0
68	P6820M230-N	N	17.044	16.874	17.927	AF-1	5.87	0.06	8.12	1.69	1.81	—	9.88	15.00	9.50	324.0
72	P7220M230-N	N	18.046	17.876	18.898	AF-2	5.87	0.06	8.12	1.69	1.81	—	9.88	16.00	9.50	287.0
80	P8020M230-N	N	20.051	19.881	20.866	AF-2	5.87	0.06	8.12	1.69	1.81	—	9.88	18.00	9.50	280.0
90	P9020M230-N	N	22.558	22.388	23.425	AF-2	5.87	0.06	8.12	1.69	1.81	—	9.88	20.56	9.50	319.0
112	P11220M230-N	N	28.072	27.902	—	A-3	5.87	0.06	8.12	1.69	1.81	—	9.88	26.25	—	357.0
144	P14420M230-P	P	36.092	35.922	—	D-3	7.00	0.69	9.38	1.19	1.31	—	9.88	34.25	—	535.0
168	P16820M230-P	P	42.108	41.938	—	D-3	7.00	0.69	9.38	1.19	1.31	—	9.88	40.25	—	654.0
192	P19220M230-W	W	48.123	47.953	—	C-3	8.50	0.75	11.38	0.75	1.50	—	9.88	46.00	—	935.0
216	P21620M230-W	W	54.138	53.968	—	C-3	8.50	0.75	11.38	0.75	1.50	—	9.88	52.00	—	1062.0

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• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.



No. of Teeth	Catalog Number	Bore	Pitch	Diameter		Type +	Max Bore	Dimensions								Weight Approx. (lbs.)
				O.D.	Flange			E	L	M	K	H	F	G	W	
QD 290mm (11.42 in.) Wide Belts (20M-290)																
52	P5220M290-N	N	13.033	12.863	13.764	AF-1	5.87	0.75	8.12	2.38	2.50	—	12.25	10.88	11.88	187.0
56	P5620M290-N	N	14.036	13.866	14.764	AF-1	5.87	0.75	8.12	2.38	2.50	—	12.25	11.88	11.88	223.0
60	P6020M290-N	N	15.038	14.868	15.927	AF-1	5.87	0.75	8.12	2.38	2.50	—	12.25	13.06	11.88	257.0
64	P6420M290-N	N	16.041	15.871	16.929	AF-1	5.87	0.75	8.12	2.38	2.50	—	12.25	14.06	11.88	299.0
68	P6820M290-N	N	17.044	16.874	17.927	AF-1	5.87	0.75	8.12	2.38	2.50	—	12.25	15.00	11.88	346.0
72	P7220M290-N	N	18.046	17.876	18.898	AF-2	5.87	0.75	8.12	2.38	2.50	—	12.25	16.00	11.88	311.0
80	P8020M290-N	N	20.051	19.881	20.866	AF-2	5.87	0.75	8.12	2.38	2.50	—	12.25	18.00	11.88	314.0
90	P9020M290-N	N	22.558	22.388	23.425	AF-2	5.87	0.75	8.12	2.38	2.50	—	12.25	20.56	11.88	359.0
112	P11220M290-P	P	28.072	27.902	—	A-2	7.00	0.50	9.38	2.38	2.50	—	12.25	26.12	—	513.0
144	P14420M290-P	P	36.092	35.922	—	A-3	7.00	0.50	9.38	2.38	2.50	—	12.25	34.00	—	637.0
168	P16820M290-W	W	42.108	41.938	—	A-3	8.50	0.44	11.38	0.44	2.68	—	12.25	40.00	—	891.0
192	P19220M290-W	W	48.123	47.953	—	A-3	8.50	0.44	11.38	0.44	2.68	—	12.25	46.00	—	1061.0
216	P21620M290-W	W	54.138	53.968	—	A-3	8.50	0.44	11.38	0.44	2.68	—	12.25	52.00	—	1239.0
QD 340 mm (13.39 in.) Wide Belts (20M-340)																
52	P5220M340-N	N	13.033	12.863	13.764	AF-1	5.87	0.75	8.12	5.38	2.50	—	14.25	10.88	13.88	201.0
56	P5620M340-N	N	14.036	13.866	14.764	AF-1	5.87	0.75	8.12	5.38	2.50	—	14.25	11.88	13.88	239.0
60	P6020M340-N	N	15.038	14.868	15.927	AF-1	5.87	0.75	8.12	5.38	2.50	—	14.25	13.06	13.88	273.0
64	P6420M340-N	N	16.041	15.871	16.929	AF-1	5.87	0.75	8.12	5.38	2.50	—	14.25	14.06	13.88	316.0
68	P6820M340-N	N	17.044	16.874	17.927	AF-1	5.87	0.75	8.12	5.38	2.50	—	14.25	15.00	13.88	364.0
72	P7220M340-N	N	18.046	17.876	18.898	AF-2	5.87	0.75	8.12	5.38	2.50	—	14.25	16.00	13.88	330.0
80	P8020M340-P	P	20.051	19.881	20.866	AF-2	7.00	1.50	9.38	3.38	3.50	—	14.25	18.00	13.88	406.0
90	P9020M340-P	P	22.558	22.388	23.425	AF-2	7.00	1.50	9.38	3.38	3.50	—	14.25	20.56	13.88	426.0
112	P11220M340-P	P	28.072	27.902	—	A-2	7.00	1.50	9.38	3.38	3.50	—	14.25	26.12	—	543.0
144	P14420M340-W	W	36.092	35.922	—	A-3	8.50	0.38	11.38	2.50	2.63	—	14.25	34.00	—	814.0
168	P16820M340-W	W	42.108	41.938	—	A-3	8.50	0.38	11.38	2.50	2.63	—	14.25	40.00	—	947.0
192	P19220M340-S	S	48.123	47.953	—	D-3	10.00	2.50	15.75	1.00	1.12	—	14.25	46.00	—	1368.0
216	P21620M340-S	S	54.138	53.968	—	D-3	10.00	2.50	15.75	1.00	1.12	—	14.25	51.88	—	1555.0

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• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

HTS® 5mm Sprocket Diameters

No. of Teeth	Diameters mm in		No. of Teeth	Diameters mm in		No. of Teeth	Diameters mm in		No. of Teeth	Diameters mm in		No. of Teeth	Diameters mm in	
	PD	OD		PD	OD		PD	OD		PD	OD		PD	OD
13	20.69	19.55	43	68.44	67.30	73	116.18	115.04	103	163.93	162.79	133	211.68	210.54
	0.815	0.770		2.694	2.649		4.574	4.529		6.454	6.409		8.334	8.289
14	22.28	21.14	44	70.03	68.89	74	117.77	116.63	104	165.52	164.38	134	213.27	212.13
	0.877	0.832		2.757	2.712		4.637	4.592		6.517	6.472		8.396	8.351
15	23.87	22.73	45	71.62	70.48	75	119.37	118.23	105	167.11	165.97	135	214.86	213.72
	0.940	0.895		2.820	2.775		4.699	4.654		6.579	6.534		8.459	8.414
16	25.46	24.32	46	73.21	72.07	76	120.96	119.82	106	168.70	167.56	136	216.45	215.31
	1.003	0.958		2.882	2.837		4.762	4.717		6.642	6.597		8.522	8.477
17	27.06	25.92	47	74.80	73.66	77	122.55	121.41	107	170.3	169.16	137	218.04	216.90
	1.065	1.020		2.945	2.900		4.825	4.780		6.705	6.660		8.584	8.539
18	28.65	27.51	48	76.39	75.25	78	124.14	123.00	108	171.89	170.75	138	219.63	218.49
	1.128	1.083		3.008	2.963		4.887	4.842		6.767	6.722		8.647	8.602
19	30.24	29.10	49	77.99	76.85	79	125.73	124.59	109	173.48	172.34	139	221.23	220.09
	1.191	1.146		3.070	3.025		4.950	4.905		6.830	6.785		8.710	8.665
20	31.83	30.69	50	79.58	78.94	80	127.32	126.18	110	175.07	173.93	140	222.82	221.68
	1.253	1.208		3.133	3.088		5.013	4.968		6.893	6.848		8.772	8.727
21	33.42	32.28	51	81.17	80.03	81	128.92	127.78	111	176.66	175.52	141	224.41	223.27
	1.316	1.271		3.196	3.151		5.075	5.030		6.955	6.910		8.835	8.790
22	35.01	33.87	52	82.76	81.62	82	130.51	129.37	112	178.25	177.11	142	226.00	224.86
	1.379	1.334		3.258	3.213		5.138	5.093		7.018	6.973		8.898	8.853
23	36.61	35.47	53	84.35	83.21	83	132.10	130.96	113	179.85	178.71	143	227.59	226.45
	1.441	1.396		3.321	3.276		5.201	5.156		7.081	7.036		8.960	8.915
24	38.20	37.06	54	85.94	84.80	84	133.69	132.55	114	181.44	180.30	144	229.18	228.04
	1.504	1.459		3.384	3.339		5.263	5.218		7.143	7.098		9.023	8.978
25	39.79	38.65	55	87.54	86.40	85	135.28	134.14	115	183.03	181.89	145	230.77	229.63
	1.566	1.521		3.446	3.401		5.326	5.281		7.206	7.161		9.086	9.041
26	41.38	40.24	56	89.13	87.99	86	136.87	135.73	116	184.62	183.48	146	232.37	231.23
	1.629	1.584		3.509	3.464		5.389	5.344		7.268	7.223		9.148	9.103
27	42.97	41.83	57	90.72	89.58	87	138.46	137.32	117	186.21	185.07	147	233.96	232.82
	1.692	1.647		3.572	3.527		5.451	5.406		7.331	7.286		9.211	9.166
28	44.56	43.42	58	92.31	91.17	88	140.06	138.92	118	187.80	186.66	148	235.55	234.41
	1.754	1.709		3.634	3.589		5.514	5.469		7.394	7.349		9.274	9.229
29	46.15	45.01	59	93.90	92.76	89	141.65	140.51	119	189.39	188.25	149	237.14	236.00
	1.817	1.772		3.697	3.652		5.577	5.532		7.456	7.411		9.336	9.291
30	47.75	46.61	60	95.49	94.35	90	143.24	142.10	120	190.99	189.85	150	238.73	237.59
	1.880	1.835		3.760	3.715		5.639	5.594		7.519	7.474		9.399	9.354
31	49.34	48.20	61	97.08	95.94	91	144.83	143.69	121	192.58	191.44	151	240.32	239.18
	1.942	1.897		3.822	3.777		5.702	5.657		7.582	7.537		9.462	9.417
32	50.93	49.79	62	98.68	97.54	92	146.42	145.28	122	194.17	193.03	152	241.92	240.78
	2.005	1.960		3.885	3.840		5.765	5.720		7.644	7.599		9.524	9.479
33	52.52	51.38	63	100.27	99.13	93	148.01	146.87	123	195.76	194.62	153	243.51	242.37
	2.068	2.023		3.948	3.903		5.827	5.782		7.707	7.662		9.587	9.542
34	54.11	52.97	64	101.86	100.72	94	149.61	148.47	124	197.35	196.21	154	245.10	243.96
	2.130	2.085		4.010	3.965		5.890	5.845		7.770	7.725		9.650	9.605
35	55.70	54.56	65	103.45	102.31	95	151.20	150.06	125	198.94	197.80	155	246.69	245.55
	2.193	2.148		4.073	4.028		5.953	5.908		7.832	7.787		9.712	9.667
36	57.30	56.16	66	105.04	103.90	96	152.79	151.65	126	200.54	199.40	156	248.28	247.14
	2.256	2.211		4.136	4.091		6.015	5.970		7.895	7.850		9.775	9.730
37	58.89	57.75	67	106.63	105.49	97	154.38	153.24	127	202.13	200.99	157	249.87	248.73
	2.318	2.273		4.198	4.153		6.078	6.033		7.958	7.913		9.838	9.793
38	60.48	59.34	68	108.23	107.09	98	155.97	154.83	128	203.72	202.58	158	251.46	250.32
	2.381	2.336		4.261	4.216		6.141	6.096		8.020	7.975		9.900	9.855
39	62.07	60.93	69	109.82	108.68	99	157.56	156.42	129	205.31	204.17	159	253.06	251.92
	2.444	2.399		4.324	4.279		6.203	6.158		8.083	8.038		9.963	9.918
40	63.66	62.52	70	111.41	110.27	100	159.15	158.01	130	206.90	205.76	160	254.65	253.51
	2.506	2.461		4.386	4.341		6.266	6.221		8.146	8.101		10.026	9.981
41	62.25	64.11	71	113.00	111.86	101	160.75	159.61	131	208.49	207.35	131	208.49	207.35
	2.569	2.524		4.449	4.404		6.329	6.284		8.208	8.163		8.208	8.163
42	66.85	65.71	72	114.59	113.45	102	162.34	161.20	132	210.08	208.94	132	210.08	208.94
	2.632	2.587		4.511	4.466		6.391	6.346		8.271	8.226		8.271	8.226



HTS[®] 8mm Sprocket Diameters

No. of Teeth	mm in		No. of Teeth	mm in		No. of Teeth	mm in		No. of Teeth	mm in		No. of Teeth	mm in	
	Diameters PD	OD		Diameters PD	OD		Diameters PD	OD		Diameters PD	OD		Diameters PD	OD
22	56.02 2.206	54.66 2.152	57	145.15 5.715	143.78 5.660	92	234.28 9.223	232.90 9.169	127	323.41 12.733	322.03 12.678	162	412.53 16.241	411.16 16.187
23	58.57 2.306	57.20 2.252	58	147.70 5.815	146.32 5.761	93	236.82 9.324	235.45 9.270	128	325.95 12.833	324.58 12.779	163	415.08 16.342	413.70 16.288
24	61.12 2.406	59.74 2.352	59	150.24 5.915	148.87 5.861	94	239.37 9.424	238.00 9.370	129	328.50 12.933	327.12 12.879	164	417.62 16.442	416.25 16.388
25	63.66 2.506	62.28 2.452	60	152.79 6.015	151.42 5.961	95	241.92 9.524	240.54 9.470	130	331.04 13.033	329.67 12.979	165	420.17 16.542	418.8 16.488
26	66.21 2.607	64.85 2.553	61	155.34 6.116	153.96 6.062	96	244.46 9.624	243.09 9.570	131	333.59 13.133	332.22 13.079	166	422.72 16.642	421.34 16.588
27	68.75 2.707	67.39 2.653	62	157.88 6.216	156.51 6.162	97	247.01 9.725	245.64 9.671	132	336.14 13.234	334.76 13.180	167	425.26 16.743	423.89 16.689
28	71.30 2.807	70.08 2.759	63	160.43 6.316	159.06 6.262	98	249.55 9.825	248.18 9.771	133	338.68 13.334	337.31 13.280	168	427.81 16.843	426.44 16.789
29	73.85 2.907	72.62 2.859	64	162.97 6.416	161.60 6.362	99	252.10 9.925	250.73 9.871	134	341.23 13.434	339.86 13.380	169	430.35 16.943	428.98 16.889
30	76.39 3.008	75.13 2.958	65	165.52 6.517	164.15 6.463	100	254.65 10.025	253.28 9.971	135	343.77 13.534	342.40 13.480	170	432.90 17.043	431.53 16.989
31	78.94 3.108	77.65 3.057	66	168.07 6.617	166.70 6.563	101	257.19 10.126	255.82 10.072	136	346.32 13.635	344.95 13.581	171	435.45 17.144	434.08 17.090
32	81.49 3.208	80.16 3.156	67	170.61 6.717	169.24 6.663	102	259.74 10.226	258.37 10.172	137	348.87 13.735	347.50 13.681	172	437.99 17.244	436.62 17.190
33	84.03 3.308	82.68 3.255	68	173.16 6.817	171.79 6.763	103	262.29 10.326	260.92 10.272	138	351.41 13.835	350.04 13.781	173	440.54 17.344	439.17 17.290
34	86.58 3.409	85.22 3.355	69	175.71 6.918	174.34 6.864	104	264.83 10.427	263.46 10.372	139	353.96 13.935	352.59 13.881	174	443.09 17.444	441.72 17.390
35	89.13 3.509	87.76 3.455	70	178.25 7.018	176.88 6.964	105	267.38 10.527	266.01 10.473	140	356.51 14.036	355.14 13.982	175	445.63 17.544	444.26 17.491
36	91.67 3.609	90.30 3.555	71	180.80 7.118	179.43 7.064	106	269.93 10.628	268.56 10.573	141	359.05 14.136	357.68 14.082	176	448.18 17.645	446.81 17.591
37	94.22 3.709	92.85 3.655	72	183.35 7.218	181.97 7.164	107	272.47 10.728	271.10 10.673	142	361.60 14.236	360.23 14.182	177	450.73 17.745	449.36 17.691
38	96.77 3.810	95.39 3.756	73	185.89 7.319	184.52 7.265	108	275.02 10.828	273.65 10.771	143	364.15 14.336	362.77 14.282	178	453.27 17.845	451.90 17.791
39	99.31 3.910	97.94 3.856	74	188.44 7.419	187.07 7.365	109	277.57 10.928	276.19 10.874	144	366.69 14.437	365.32 14.383	179	455.82 17.946	454.45 17.892
40	101.86 4.010	100.49 3.956	75	190.99 7.519	189.61 7.465	110	280.11 11.028	278.74 10.974	145	369.24 14.537	367.87 14.483	180	458.37 18.046	456.99 17.992
41	104.41 4.110	103.03 4.056	76	193.53 7.619	192.16 7.565	111	282.66 11.128	281.29 11.074	146	371.79 14.637	370.41 14.583	181	460.91 18.146	459.54 18.092
42	106.95 4.211	105.58 4.157	77	196.08 7.720	194.71 7.666	112	285.21 11.229	283.83 11.175	147	374.33 14.737	372.96 14.683	182	463.46 18.246	462.09 18.192
43	109.50 4.311	108.13 4.257	78	198.63 7.820	197.25 7.766	113	287.75 11.329	286.38 11.275	148	376.88 14.838	375.51 14.784	183	466.01 18.347	464.63 18.293
44	112.05 4.411	110.67 4.357	79	201.17 7.920	199.81 7.866	114	290.30 11.429	288.93 11.375	149	379.43 14.938	378.05 14.884	184	468.55 18.447	467.18 18.393
45	114.59 4.511	113.22 4.457	80	203.72 8.020	202.35 7.966	115	292.85 11.529	291.47 11.475	150	381.96 15.038	380.60 14.984	185	471.10 18.547	469.73 18.493
46	117.14 4.612	115.77 4.558	81	206.26 8.121	204.89 8.067	116	295.39 11.630	294.02 11.576	151	384.52 15.138	383.15 15.084	186	473.65 18.647	472.27 18.593
47	119.68 4.712	118.31 4.658	82	208.81 8.221	207.44 8.167	117	297.94 11.730	296.57 11.676	152	387.06 15.239	385.70 15.185	187	476.19 18.748	474.82 18.694
48	122.23 4.812	120.86 4.758	83	211.36 8.321	209.99 8.267	118	300.48 11.830	299.11 11.776	153	389.61 15.339	388.24 15.285	188	478.74 18.848	477.37 18.794
49	124.78 4.912	123.41 4.858	84	213.90 8.421	212.53 8.367	119	303.03 11.930	301.66 11.876	154	392.16 15.439	390.79 15.385	189	481.28 18.948	479.91 18.894
50	127.32 5.013	125.95 4.959	85	216.45 8.522	215.08 8.468	120	305.58 12.031	304.21 11.977	155	394.70 15.540	393.33 15.486	190	483.83 19.048	482.46 18.994
51	129.87 5.113	128.50 5.059	86	219.00 8.622	217.63 8.568	121	308.12 12.131	306.75 12.077	156	397.25 15.640	395.88 15.586	191	486.38 19.149	485.01 19.095
52	132.42 5.213	131.05 5.159	87	221.54 8.722	220.17 8.668	122	310.67 12.231	309.30 12.177	157	399.80 15.740	398.43 15.686	192	488.92 19.249	487.55 19.195
53	134.96 5.314	133.59 5.259	88	224.09 8.822	222.72 8.768	123	313.22 12.331	311.85 12.227	158	402.34 15.840	400.97 15.786			
54	137.51 5.414	136.14 5.360	89	226.64 8.923	225.27 8.869	124	315.76 12.432	314.39 12.378	159	404.89 15.941	403.52 15.887			
55	140.06 5.514	138.68 5.460	90	229.18 9.023	227.81 8.969	125	318.31 12.532	316.94 12.478	160	407.44 16.041	406.07 15.987			
56	142.60 5.614	141.23 5.560	91	231.73 9.123	230.36 9.069	126	320.86 12.632	319.48 12.578	161	409.98 16.141	408.61 16.087			

HTS® 14mm Sprocket Diameters



No. of Teeth	mm in		No. of Teeth	mm in		No. of Teeth	mm in		No. of Teeth	mm in		No. of Teeth	mm in	
	PD	OD		PD	OD		PD	OD		PD	OD		PD	OD
28	124.78 4.912	122.12 4.808	66	294.12 11.579	291.32 11.469	104	463.46 18.246	460.66 18.136	142	632.80 24.913	630.01 24.803	180	802.14 31.580	799.35 31.47
29	129.23 5.088	126.57 4.983	67	298.57 11.755	295.78 11.645	105	467.92 18.422	465.12 18.312	143	637.26 25.089	634.46 24.979	181	806.60 31.756	803.80 31.646
30	133.69 5.263	130.99 5.157	68	303.03 11.930	300.24 11.820	106	472.37 18.597	469.58 18.487	144	641.71 25.264	638.92 25.154	182	811.05 31.931	808.26 31.821
31	138.15 5.439	135.46 5.333	69	307.49 12.106	304.69 11.996	107	476.83 18.773	474.03 18.663	145	646.17 25.440	643.37 25.330	183	815.51 32.107	812.72 31.997
32	142.60 5.614	139.88 5.507	70	311.94 12.281	309.15 12.171	108	481.28 18.948	478.49 18.838	146	650.63 25.615	647.83 25.505	184	819.97 32.252	817.17 32.172
33	147.06 5.790	144.35 5.683	71	316.40 12.457	313.61 12.347	109	485.74 19.124	482.95 19.014	147	655.08 25.791	652.29 25.681	185	824.42 32.458	821.63 32.348
34	151.52 5.965	148.79 5.858	72	320.86 12.632	318.06 12.522	110	490.20 19.299	487.40 19.189	148	659.54 25.966	656.74 25.856	186	828.88 32.633	826.08 32.523
35	155.98 6.141	153.24 6.033	73	325.31 12.808	322.52 12.698	111	494.65 19.475	491.86 19.365	149	663.99 26.141	661.20 26.031	187	833.33 32.808	830.54 32.698
36	160.43 6.316	157.68 6.208	74	329.77 12.983	326.97 12.873	112	499.11 19.650	496.32 19.540	150	668.45 26.317	665.66 26.207	188	837.79 32.954	835.00 32.874
37	164.88 6.491	162.13 6.383	75	334.22 13.158	331.43 13.048	113	503.57 19.825	500.77 19.715	151	672.91 26.492	670.11 26.382	189	842.25 33.159	839.45 33.049
38	169.34 6.667	166.60 6.559	76	338.68 13.334	335.89 13.224	114	508.20 20.001	505.23 19.891	152	677.36 26.668	674.57 26.558	190	846.70 33.335	843.91 33.225
39	173.80 6.842	171.02 6.733	77	343.14 13.509	340.34 13.399	115	512.48 20.176	509.68 20.056	153	681.82 26.843	679.03 26.733	191	851.16 33.510	848.37 33.400
40	178.25 7.018	175.49 6.909	78	347.59 13.685	344.80 13.575	116	516.93 20.352	514.14 20.242	154	690.73 27.194	687.94 27.084	192	855.62 33.686	852.82 33.576
41	182.71 7.193	179.92 7.083	79	352.05 13.860	349.26 13.750	117	521.39 20.527	518.60 20.417	155	690.73 27.194	687.94 27.084	193	860.07 33.861	857.28 33.751
42	187.17 7.369	184.37 7.259	80	356.51 14.036	353.71 13.926	118	525.85 20.703	523.05 20.593	156	695.19 27.370	692.39 27.260	194	864.53 34.037	861.75 33.927
43	191.62 7.544	188.83 7.434	81	360.96 14.211	358.17 14.101	119	530.30 20.878	527.51 20.768	157	699.64 27.545	696.85 27.435	195	868.98 34.212	866.44 34.112
44	196.08 7.720	193.28 7.610	82	365.42 14.387	362.63 14.277	120	534.76 21.054	531.97 20.944	158	704.10 27.720	701.31 27.610	196	873.44 34.387	870.64 34.277
45	200.53 7.895	197.74 7.785	83	369.88 14.562	367.08 14.452	121	539.22 21.229	536.42 21.119	159	708.56 27.896	705.76 27.786	197	877.90 34.553	875.11 34.453
46	204.99 8.071	202.20 7.961	84	374.33 14.737	371.54 14.627	122	543.67 21.404	540.88 21.294	160	713.01 28.071	710.22 27.961	198	882.35 34.738	879.55 34.628
47	209.45 8.246	206.65 8.136	85	378.79 14.913	375.99 14.803	123	548.13 21.580	545.34 21.470	161	717.47 28.247	714.68 28.137	199	886.81 34.914	884.02 34.804
48	213.90 8.421	211.11 8.311	86	383.24 15.068	380.45 14.978	124	552.59 21.755	549.79 21.645	162	721.93 28.422	719.13 28.312	200	891.27 35.089	888.47 34.979
49	218.36 8.597	215.57 8.487	87	387.70 15.264	384.91 15.154	125	557.04 21.931	554.25 21.821	163	726.38 28.598	723.59 28.488	201	895.72 35.265	892.94 35.155
50	222.82 8.772	220.02 8.662	88	392.16 15.439	389.36 15.329	126	561.50 22.106	558.70 21.996	164	730.84 28.773	728.05 28.663	202	900.18 35.440	897.38 35.330
51	227.27 8.948	224.48 8.838	89	396.61 15.615	393.82 15.505	127	565.95 22.282	563.16 22.172	165	735.30 28.949	732.50 28.839	203	906.64 35.616	901.85 35.506
52	231.73 9.123	228.94 9.013	90	401.07 15.790	398.28 15.680	128	570.41 22.457	567.62 22.347	166	739.75 29.124	736.96 29.014	204	909.09 35.791	906.30 35.681
53	236.19 9.299	233.39 9.189	91	405.53 15.966	402.73 15.856	129	574.87 22.633	572.07 22.523	167	744.21 29.299	741.41 29.189	205	913.55 35.966	910.74 35.856
54	240.64 9.474	237.85 9.354	92	409.98 16.141	407.19 16.031	130	579.32 22.808	576.53 22.689	168	748.66 29.475	745.87 29.365	206	918.00 36.142	915.21 36.032
55	245.10 9.650	242.30 9.540	93	414.44 16.316	411.64 16.206	131	583.78 22.983	580.99 22.873	169	753.12 29.650	750.33 29.540	207	922.46 36.317	919.66 36.207
56	249.55 9.825	246.76 9.715	94	418.90 16.492	416.10 16.382	132	588.24 23.159	585.44 23.049	170	757.58 29.826	754.78 29.716	208	926.92 36.493	924.13 36.383
57	254.01 10.000	251.22 9.890	95	423.35 16.667	420.56 16.557	133	592.69 23.334	589.90 23.224	171	762.03 30.001	759.24 29.891	209	931.97 36.668	928.57 36.558
58	258.47 10.176	255.67 10.066	96	427.81 16.843	425.01 16.733	134	597.15 23.510	594.35 23.400	172	766.49 30.177	763.70 30.067	210	936.44 36.844	933.04 36.734
59	262.92 10.351	260.13 10.241	97	432.26 17.018	429.47 16.908	135	601.61 23.685	598.81 23.575	173	770.95 30.352	768.15 3.242	211	940.29 37.019	937.49 36.909
60	267.38 10.527	264.59 10.417	98	436.72 17.194	433.93 17.084	136	606.06 23.861	603.27 23.751	174	775.40 30.528	772.61 30.418	212	944.74 37.195	941.96 37.085
61	271.84 10.702	269.04 10.592	99	441.18 17.369	438.38 17.259	137	610.52 24.036	607.72 23.926	175	779.86 30.703	777.06 30.593	213	949.20 37.370	946.40 37.260
62	276.29 10.878	273.50 10.768	100	445.63 17.545	442.84 17.435	138	614.97 24.212	612.18 24.102	176	784.32 30.878	781.52 30.768	214	953.65 37.545	950.85 37.435
63	280.75 11.053	277.95 10.943	101	450.09 17.720	447.30 17.610	139	619.43 24.387	616.64 24.277	177	788.77 31.054	785.98 30.944	215	958.11 37.721	955.32 37.611
64	285.21 11.229	282.41 11.119	102	454.55 17.895	451.75 17.785	140	623.89 24.562	621.09 24.452	178	793.23 31.228	790.43 31.119	216	962.57 37.896	959.76 37.786
65	289.66 11.404	286.87 11.294	103	459.00 18.071	456.21 17.961	141	628.34 24.738	625.55 24.628	179	797.68 31.405	794.89 31.295			



HTS® 20mm Sprocket Diameters

No. of Teeth	mm in		No. of Teeth	mm in		No. of Teeth	mm in		No. of Teeth	mm in		No. of Teeth	mm in	
	Diameters			Diameters			Diameters			Diameters			Diameters	
	PD	OD		PD	OD		PD	OD		PD	OD		PD	OD
34	216.45 8.522	212.13 8.352	71	452.00 17.795	447.68 17.625	108	687.55 27.069	683.23 26.899	145	923.10 36.342	918.78 36.172	182	1158.65 45.616	1154.33 45.446
35	222.82 8.772	218.50 8.602	72	458.37 18.046	454.05 17.876	109	693.92 27.320	689.60 27.150	146	929.46 36.593	925.15 36.423	183	1165.01 45.867	1160.70 45.697
36	229.18 9.023	224.87 8.853	73	464.73 18.297	460.41 18.127	110	700.28 27.570	695.96 27.400	147	935.83 36.840	931.51 36.674	184	1171.38 46.117	1167.06 45.947
37	235.55 9.274	231.23 9.104	74	471.10 18.547	466.78 18.377	111	706.65 27.821	702.33 27.651	148	942.20 37.094	937.88 36.924	185	1177.75 46.368	1173.43 46.198
38	241.92 9.524	237.60 9.354	75	477.46 18.798	473.15 18.628	112	713.01 28.071	708.70 27.901	149	948.56 37.345	944.25 37.175	186	1184.11 46.619	1179.79 46.449
39	248.28 9.775	243.96 9.605	76	483.83 19.048	479.51 18.878	113	719.38 28.322	715.06 28.152	150	954.93 37.596	950.61 37.426	187	1190.48 46.859	1186.16 46.699
40	254.65 10.026	250.33 9.855	77	490.20 19.299	485.88 19.129	114	725.75 28.573	721.43 28.403	151	961.30 37.846	956.98 37.676	188	1196.85 47.120	1192.53 46.950
41	261.01 10.276	256.70 10.106	78	496.56 19.550	492.25 19.380	115	732.11 28.823	727.79 28.653	152	967.66 38.097	963.34 37.927	189	1203.21 47.371	1198.89 47.201
42	267.38 10.527	263.06 10.357	79	502.93 19.800	498.61 19.630	116	738.48 29.074	734.16 28.904	153	974.03 38.348	969.71 38.178	190	1209.58 47.621	1205.26 47.451
43	273.75 10.777	269.43 10.607	80	509.30 20.051	504.98 19.881	117	744.85 29.325	740.53 29.155	154	980.39 38.598	976.08 38.428	191	1215.94 47.672	1211.63 47.702
44	280.11 11.028	275.79 10.858	81	515.66 20.302	511.34 20.132	118	751.21 29.575	746.89 29.405	155	986.76 38.849	982.44 38.679	192	1222.31 48.122	1217.99 47.952
45	286.48 11.279	282.16 11.109	82	522.03 20.552	517.71 20.382	119	757.58 29.826	753.26 29.656	156	993.13 39.099	988.81 38.929	193	1228.68 48.373	1224.36 48.203
46	292.85 11.529	288.53 11.469	83	528.39 20.803	524.08 20.633	120	763.94 30.077	759.63 29.907	157	999.49 39.350	995.18 39.180	194	1235.04 48.624	1230.72 48.454
47	299.21 11.780	294.89 11.610	84	534.76 21.054	530.44 20.884	121	770.31 30.327	765.99 30.157	158	1005.86 39.601	1001.54 39.431	195	1241.41 48.874	1237.09 48.704
48	305.58 12.031	301.26 11.861	85	541.13 21.304	536.81 21.134	122	776.68 30.578	772.36 30.408	159	1012.23 39.851	1007.91 39.681	196	1247.77 49.125	1243.46 48.955
49	311.94 12.281	307.63 12.111	86	547.49 21.555	543.18 21.385	123	783.04 30.828	778.72 30.658	160	1018.59 40.102	1014.27 39.932	197	1254.14 49.376	1249.82 49.206
50	318.31 12.532	313.99 12.362	87	553.86 21.805	549.54 21.635	124	789.41 31.079	785.09 30.909	161	1024.96 40.353	1020.64 40.183	198	1260.51 49.626	1256.19 49.456
51	324.68 12.763	320.36 12.613	88	560.23 22.056	555.91 21.886	125	795.77 31.330	791.46 31.160	162	1031.32 40.603	1027.01 40.433	199	1266.87 49.577	1262.56 49.707
52	331.04 13.033	326.72 12.863	89	566.59 22.307	562.27 22.137	126	805.14 31.580	797.82 31.410	163	1037.69 40.854	1033.37 40.684	200	1273.24 50.128	1268.92 49.958
53	337.41 13.284	333.09 13.114	90	572.96 22.557	568.64 22.387	127	808.51 31.831	804.19 31.661	164	1044.06 41.105	1039.74 40.935	201	1279.61 50.378	1275.29 50.208
54	343.77 13.534	339.46 13.364	91	579.32 22.808	575.01 22.638	128	814.87 32.082	810.56 31.912	165	1050.42 41.355	1046.10 41.185	202	1285.97 50.629	1281.65 50.459
55	350.14 13.785	345.82 13.615	92	585.69 23.059	581.37 22.889	129	821.24 32.332	816.92 32.162	166	1056.79 41.606	1052.47 41.436	203	1292.34 50.679	1288.02 50.709
56	356.51 14.036	352.19 13.856	93	592.06 23.309	587.74 23.139	130	827.61 32.583	823.29 32.413	167	1063.16 41.856	1058.84 41.686	204	1298.70 51.130	1294.39 50.960
57	362.87 14.286	358.56 14.116	94	598.42 23.560	594.10 23.390	131	833.97 32.834	829.65 32.664	168	1069.52 42.107	1065.20 41.937	205	1305.07 51.381	1300.75 51.211
58	369.24 14.537	364.92 14.367	95	604.72 23.811	600.47 23.641	132	840.34 33.084	836.02 32.914	169	1075.89 42.358	1071.57 42.188	206	1311.44 51.631	1307.12 51.461
59	375.61 14.788	371.29 14.618	96	611.15 24.061	606.84 23.891	133	846.70 33.335	842.39 33.165	170	1082.25 42.608	1077.94 42.438	207	1317.80 51.882	1313.48 51.712
60	381.97 15.038	377.65 14.868	97	617.52 24.312	613.20 24.142	134	853.07 33.585	848.75 33.415	171	1088.62 42.859	1084.30 42.689	208	1324.17 52.133	1319.85 51.963
61	388.34 15.289	384.02 15.119	98	623.89 24.562	619.57 24.392	135	859.44 33.836	855.12 33.666	172	1094.99 43.110	1090.67 42.940	209	1330.54 52.383	1326.22 52.213
62	394.70 15.540	390.39 15.370	99	630.25 24.813	625.94 24.643	136	865.80 34.087	861.48 33.917	173	1101.35 43.350	1097.03 43.190	210	1336.90 52.634	1332.58 52.464
63	401.07 15.790	396.75 15.620	100	636.62 25.064	632.30 24.894	137	872.17 34.337	867.85 34.167	174	1107.72 43.611	1103.40 43.441	211	1343.27 52.885	1338.95 52.715
64	407.44 16.041	403.12 15.871	101	642.99 25.314	638.67 25.144	138	878.54 34.588	874.22 34.418	175	1114.08 43.862	1109.77 43.692	212	1349.63 53.135	1345.32 52.965
65	413.80 16.291	409.48 16.121	102	649.35 25.565	645.03 25.395	139	884.90 34.839	880.58 34.669	176	1120.45 44.112	1116.13 43.942	213	1356.00 53.386	1351.68 53.216
66	420.17 16.542	415.85 16.372	103	655.72 25.816	651.40 25.646	140	891.27 35.089	886.95 34.919	177	1126.82 44.363	1122.50 44.193	214	1362.37 53.635	1358.05 53.456
67	426.54 16.793	422.22 16.623	104	662.08 26.066	657.77 25.896	141	897.63 35.340	893.32 35.170	178	1133.18 44.614	1128.87 44.444	215	1368.73 53.887	1364.41 53.717
68	432.90 17.043	428.58 16.873	105	668.45 26.317	664.13 26.147	142	904.00 35.591	899.68 35.421	179	1139.55 44.854	1135.23 44.694	216	1375.10 54.136	1370.79 53.958
69	439.27 17.299	434.95 17.124	106	674.82 26.568	670.50 26.398	143	910.37 35.841	906.05 35.671	180	1145.92 45.115	1141.60 44.945			
70	445.63 17.545	441.32 17.375	107	681.18 26.818	676.87 26.648	144	916.73 36.092	912.41 35.922	181	1152.28 45.365	1147.96 45.195			

DRIVE ALIGNMENT

To assure proper drive alignment, you should refer to the information in this section for center distance alignment. The alternative is to change the idler position, so that the belt can be slipped onto the drive easily. When you install the belt, never force it over the flange. This may cause belt tensile damage.

Positive belts are most sensitive to misalignment, so never use this kind of drive in applications where misalignment is prevalent. Inconsistent belt wear and premature tensile failure may result.

The two most common types of misalignment can be seen in the drawings below. Parallel misalignment is caused when the driver and driven shafts are parallel, but the two sprockets lie in different planes. When the two shafts are not parallel, the drive is angularly misaligned.

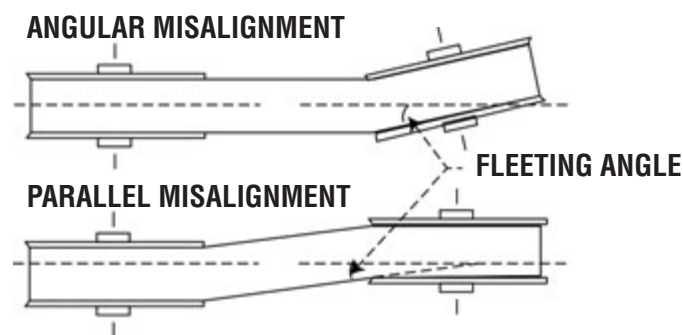
A fleeting angle (shown here) shows where the belt enters and exits the sprocket, and equals the sum of the parallel and angular misalignments.

Any degree of sprocket misalignment will result in some belt life reduction. Misalignment of all positive belt drives should not exceed 1/4" or 1/16" per foot of center distance. Alignment should be checked with a good straight-edge tool applied to their machined side surfaces from driver to driven and from driven to driver shafts. This way the effect of parallel and angular misalignment can be observed.

Drive misalignment can also cause problems of belt tracking. Some tracking is normal and will not affect performance. However, where center distance is greater than eight times the small sprocket diameter, tracking can be a problem. Special adjustment may be needed. You have to correct the parallel position of the two sprockets until one flange guides the belt in the system and the belt tracks fully on all sprockets. Regardless of the drive's center distance, the best operation will be with the belt contacting only one flange in the system.

You will find the real application problem when the belt contacts flanges on opposite sides of the sprockets. This traps the belt into undesirable parallel misalignment.

Improper bushing installation can result in the entire bushing/sprocket assembly to be "cocked" on the shaft. This leads to angular misalignment. Be sure to follow 's bushing installation instructions.



INSTALLATION AND TENSIONING ALLOWANCES

We do not recommend fixed center drives. To avoid belt damage and excessive wear, refer to the Distance Allowance Charts. The standard installation allowance is the minimum decrease in the center distance required to install a belt when flanged sprockets are removed from their shafts for belt installation. The charts first column spells this out with more comprehensive information needed for the minimum increase in center distance required for a belt's tension during its normal life.

If a belt is to be installed over flanged sprockets without removing them, the additional installation center distance allowances shown in the second table must be added to the first table data.

Distance Allowance Chart

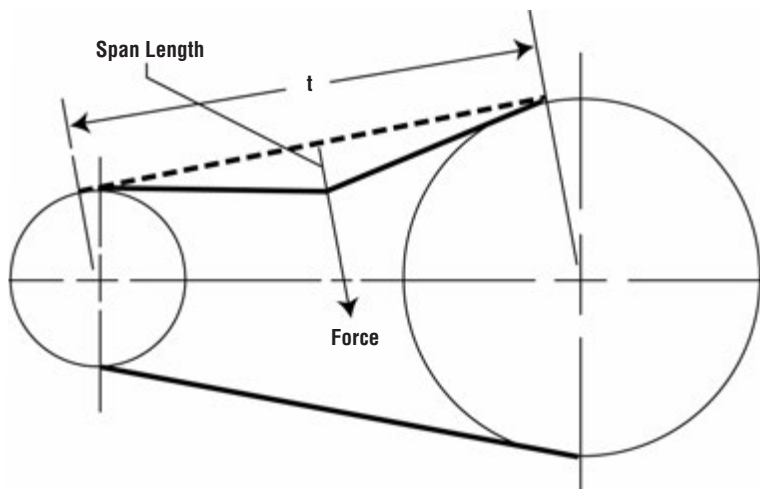
Belt Length (in)	* Standard Installation Allowance	Tensioning Allowance (Any Drive)
20 and under	0.04"	0.03"
Over 20 to 40	0.05"	0.03"
Over 40 to 60	0.07"	0.04"
Over 60 to 90	0.09"	0.05"
Over 90 to 120	0.11"	0.05"
Over 120 to 160	0.14"	0.05"
Over 160 to 190	0.17"	0.05"
Over 190 to 260	0.21"	0.05"

* Flanged Sprockets Removed for Installation.

HTS BELT TENSIONING AND DEFLECTION FORCE

Lay the belt on the sprockets, adjusting the takeup, so that the belt teeth mesh securely with sprocket grooves. Measure the belt span "t." Then tighten the belt, so that it deflects 1/64" for each inch of belt span when a force is applied. (See Table below.)

Example: A 14mm pitch belt, 85mm wide, with a span of 30" and a maximum force of 28 lbs. applied, should deflect 30/64 inch. Deflection 1/64 per inch of span. (Measure the span length "t" as shown in the sketch below).



$$t = \sqrt{C^2 - \frac{(D - d)^2}{2}}$$

These ranges of deflection forces are applicable for drive installation. Actual operation tension depends on the number of teeth mesh, system rigidity, peak loads, etc.

Belt Pitch	Belt Width	Force*
5mm	9mm	9 to 18 oz.
	15mm	1 to 2 lbs.
	25mm	1-1/2 to 3 lbs.
8mm	20mm	3 to 4 lbs.
	30mm	5 to 6-1/2 lbs.
	50mm	9 to 12 lbs.
14mm	85mm	16 to 20 lbs.
	40 mm	10 to 13 lbs.
	55mm	15 to 18 lbs.
	85 mm	23 to 28 lbs.
20mm	115mm	32 to 39 lbs.
	170mm	48 to 57 lbs.
	115mm	45 to 55 lbs.
	170mm	70 to 85 lbs.
20mm	230mm	95 to 120 lbs.
	290mm	120 to 150 lbs.
	340mm	145 to 180 lbs.

*Force applies to speeds exceeding 600 rpm.

Note: For belts wider than 2", you can avoid belt distortion by placing a 3/4" or 1" metal strip across the belt between belt and tension tester.

High HP HTS Synchronous Sprockets



“W” High HP HTS[®] Sprockets (RPP[®] Tooth Profile) – Run with Hawk Pd[®], Panther[®], QT Power Chain[®] belts.

“W” High HP HTS[®] Sprockets are designed to run with latest design, higher horsepower belts.

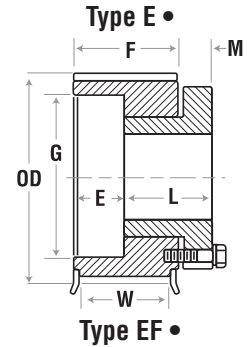
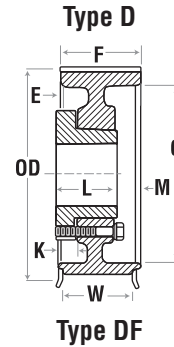
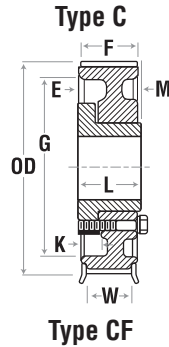
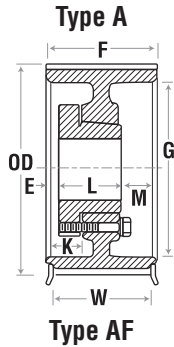
Martin's High HP HTS[®] Sprockets are designed to run with today's highest horsepower RPP[®] profile belts.

High HP HTS[®] Synchronous Sprockets allow you more flexibility in your selection criteria. The expanded line allows you to fit the application with the most cost effective sprockets.

W 24 8M 22 - JA

High HP HTS [®]	Number of Teeth	Belt Pitch	Bushing or MPB	Belt Width (mm)
		8mm		12, 22, 35, 60
		14mm		20, 42, 65, 90, 120

- Available in 8mm and 14mm pitches
- Belt widths: 12mm, 22mm, 35mm, 60mm (8mm pitch)
20mm, 42mm, 65mm, 90mm, 120mm (14mm pitch)
- Available in QD, TB or MPB styles from stock.
- **Typical Part Number: W248M22-JA**



No. of Teeth	Catalog Number	Bore	Pitch	Diameter		Type +	Max Bore	Dimensions							Weight Approx. (lbs.)	
				O.D.	Flange			E	L	M	K	H	F	G		W
8mm Pitch, 12 mm (.47 in.) Wide Belts (8M-12)																
22	W228M12-MPB	MPB	2.206	2.154	2.562	MPB	1.188	0.623	1.452	—	—	1.620	0.827	—	0.577	1.0
24	W248M12-JA	JA	2.406	2.354	2.75	EF-1 •	1.25	0.265	1.063	0.5	—	—	0.827	1.34	0.577	0.5
26	W268M12-JA	JA	2.607	2.554	2.937	EF-1 •	1.25	0.265	1.063	0.5	—	—	0.827	1.34	0.577	0.6
28	W288M12-H	H	2.807	2.755	3.156	EF-1 •	1.5	-0.048	1.25	0.375	—	—	0.827	1.57	0.577	0.7
30	W308M12-H	H	3.008	2.955	3.344	EF-1 •	1.5	-0.048	1.25	0.375	—	—	0.827	1.57	0.577	0.9
32	W328M12-H	H	3.208	3.155	3.562	EF-1 •	1.5	-0.048	1.25	0.375	—	—	0.827	1.57	0.577	1.1
34	W348M12-SH	SH	3.409	3.355	3.75	DF-1	1.688	0.5	1.313	0.014	—	—	0.827	2.75	0.577	1.1
36	W368M12-SH	SH	3.609	3.556	3.937	DF-1	1.688	0.5	1.313	0.014	—	—	0.827	2.82	0.577	1.3
38	W388M12-SH	SH	3.810	3.756	4.156	DF-1	1.688	0.5	1.313	0.014	—	—	0.827	3	0.577	1.6
40	W408M12-SH	SH	4.010	3.956	4.344	DF-1	1.688	0.5	1.313	0.014	—	—	0.827	3	0.577	1.9
44	W448M12-SDS	SDS	4.411	4.357	4.75	CF-1	2	0.548	1.375	—	0.077	—	0.827	3.5	0.577	2.1
48	W488M12-SDS	SDS	4.812	4.757	5.157	CF-1	2	0.548	1.375	—	0.077	—	0.827	3.800	0.577	2.7
56	W568M12-SDS	SDS	5.614	5.558	5.937	CF-1	2	0.548	1.375	—	0.077	—	0.827	4.600	0.577	4.0
64	W648M12-SDS	SDS	6.416	6.359	6.75	CF-1	2	0.548	1.375	—	0.077	—	0.827	5.400	0.577	5.5
72	W728M12-SDS	SDS	7.218	7.16	7.562	CF-1	2	0.548	1.375	—	0.077	—	0.827	6.200	0.577	7.3
80	W808M12-SDS	SDS	8.020	7.961	8.375	CF-2	2	0.548	1.375	—	0.077	—	0.827	6.900	0.577	9.2
90	W908M12-SDS	SDS	9.023	8.963	—	C-2	2	0.548	1.375	—	0.077	—	0.827	7.625	—	9.5
112	W1128M12-SK	SK	11.229	11.166	—	C-3	2.625	0.688	1.938	0.423	—	—	0.827	9.875	—	13.3
144	W1448M12-SK	SK	14.447	14.37	—	C-3	2.625	0.688	1.938	0.423	—	—	0.827	12.875	—	19.1
192	W1928M12-SF	SF	19.249	19.176	—	C-3	2.938	0.813	2.063	0.423	—	—	0.827	17.625	—	23.0
8mm Pitch, 22 mm (.86 in.) Wide Belts (8M-22)																
22	W228M22-MPB	MPB	2.206	2.154	2.562	MPBF-1	1.188	0.619	1.84	—	—	1.625	1.22	—	0.97	1.3
24	W248M22-JA	JA	2.406	2.354	2.750	EF-1 •	1.25	0.658	1.063	0.5	—	—	1.22	1.34	0.97	0.7
26	W268M22-JA	JA	2.607	2.554	2.937	EF-1 •	1.25	0.658	1.063	0.5	—	—	1.22	1.34	0.97	1.0
28	W288M22-H	H	2.807	2.755	3.156	EF-1 •	1.5	0.345	1.25	0.375	—	—	1.22	1.57	0.97	1.1
30	W308M22-H	H	3.008	2.955	3.344	EF-1 •	1.5	0.345	1.25	0.375	—	—	1.22	1.57	0.97	1.3
32	W328M22-H	H	3.208	3.155	3.562	CF-1 •	1.5	0.030	1.25	—	0.345	—	1.22	1.57	0.97	1.7
34	W348M22-SH	SH	3.409	3.355	3.75	DF-1	1.688	0.092	1.313	—	0.408	—	1.22	2.75	0.97	1.3
36	W368M22-SH	SH	3.609	3.556	3.937	DF-1	1.688	0.092	1.313	—	0.408	—	1.22	2.82	0.97	1.6
38	W388M22-SH	SH	3.810	3.756	4.156	DF-1	1.688	0.092	1.313	—	0.408	—	1.22	3	0.97	1.9
40	W408M22-SH	SH	4.010	3.956	4.344	DF-1	1.688	0.092	1.313	—	0.408	—	1.22	3	0.97	2.3
44	W448M22-SDS	SDS	4.411	4.357	4.75	DF-1	2	0.155	1.375	—	0.47	—	1.22	3.5	0.97	2.5
48	W488M22-SDS	SDS	4.812	4.757	5.157	DF-1	2	0.155	1.375	—	0.47	—	1.22	3.8	0.97	3.2
56	W568M22-SDS	SDS	5.614	5.558	5.937	DF-1	2	0.155	1.375	—	0.47	—	1.22	4.6	0.97	4.6
64	W648M22-SK	SK	6.416	6.359	6.75	DF-1	2.625	0.438	1.938	-0.28	0.25	—	1.22	5.4	0.97	7.7
72	W728M22-SK	SK	7.218	7.16	7.562	DF-1	2.625	0.438	1.938	-0.28	0.25	—	1.22	6.2	0.97	9.1
80	W808M22-SK	SK	8.020	7.961	8.375	DF-2	2.625	0.438	1.938	-0.28	0.25	—	1.22	6.9	0.97	9.1
90	W908M22-SK	SK	9.023	8.963	—	D-2	2.625	0.438	1.938	-0.28	0.25	—	1.22	7.63	—	12.0
112	W1128M22-SK	SK	11.229	11.166	—	D-3	2.625	0.438	1.938	-0.28	0.25	—	1.22	9.88	—	15.3
144	W1448M22-SF	SF	14.447	14.37	—	D-3	2.938	0.563	2.063	-0.28	0.25	—	1.22	12.88	—	19.1
192	W1928M22-E	E	19.249	19.176	—	C-3	3.5	1.202	2.625	0.202	-0.202	—	1.22	17.63	—	38.4

* Weight Shown is for Sprocket Less Bushing.
• Reverse Mount Only

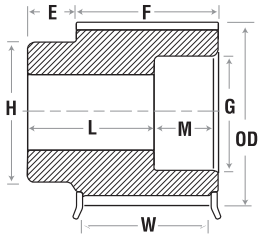
+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

High HP HTS[®] Sprockets

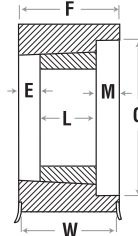
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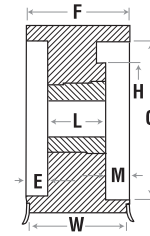
Type MPB



Type K



Type W



Type MPBF

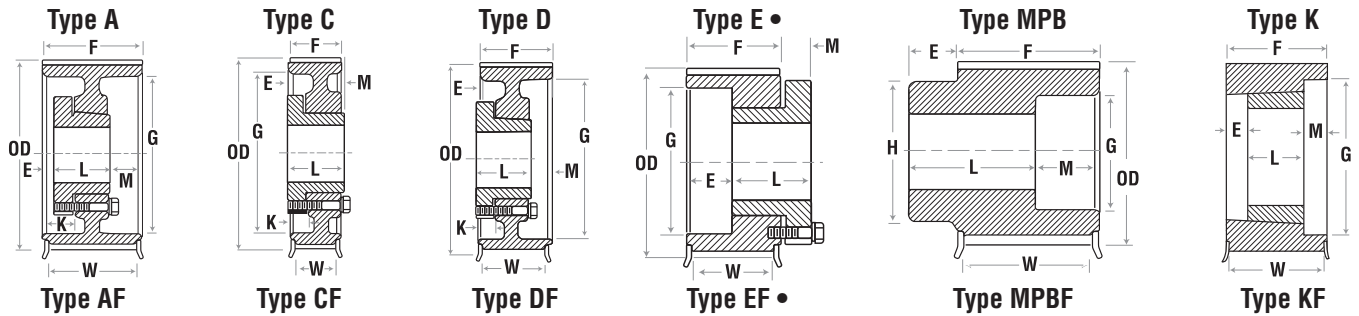
Type KF

Type WF

No. of Teeth	Catalog Number	Bore	Pitch	Diameter		Type +	Max Bore	Dimensions								Weight Approx. (lbs.)
				O.D.	Flange			E	L	M	K	H	F	G	W	
8mm Pitch, 35 mm (1.38in.) Wide Belts (8M - 35)																
22	W228M35-MPB	MPB	2.206	2.154	2.56	MBPF-1	1.188	0.618	2.35	—	—	1.625	1.73	—	1.428	1.6
24	W248M35-MPB	MPB	2.406	2.354	2.75	MBPF-1	1.250	0.618	2.35	—	—	1.8125	1.73	—	1.428	2.0
26	W268M35-MPB	MPB	2.607	2.554	2.94	MBPF-1	1.375	0.618	2.35	—	—	2	1.73	—	1.428	2.4
28	W288M35-H	H	2.807	2.755	3.16	EF-1 •	1.5	0.855	1.25	0.375	—	—	1.73	1.57	1.428	1.5
30	W308M35-H	H	3.008	2.955	3.34	EF-1 •	1.5	0.855	1.25	0.375	—	—	1.73	1.57	1.428	1.9
32	W328M35-H	H	3.208	3.155	3.56	AF-1 •	1.5	0.245	1.25	0.235	0.62	—	1.73	1.57	1.428	2.4
34	W348M35-SH	SH	3.409	3.355	3.75	AF-1	1.688	0.12	1.3125	0.298	0.62	—	1.73	2.75	1.428	2.4
36	W368M35-SH	SH	3.609	3.556	3.94	AF-1	1.688	0.12	1.3125	0.298	0.62	—	1.73	2.82	1.428	2.8
38	W388M35-SH	SH	3.81	3.756	4.16	AF-1	1.688	0.12	1.3125	0.298	0.62	—	1.73	3	1.428	3.0
40	W408M35-SH	SH	4.01	3.956	4.34	AF-1	1.688	0.12	1.3125	0.298	0.62	—	1.73	3	1.428	2.8
44	W448M35-SD	SD	4.411	4.357	4.75	DF-1	2	0.313	1.8125	0.232	0.25	—	1.73	3.5	1.428	3.1
48	W488M35-SD	SD	4.812	4.757	5.16	DF-1	2	0.313	1.8125	0.232	0.25	—	1.73	3.8	1.428	3.5
56	W568M35-SK	SK	5.614	5.558	5.94	DF-1	2.625	0.438	1.9375	0.23	0.25	—	1.73	4.6	1.428	5.3
64	W648M35-SK	SK	6.416	6.359	6.75	DF-1	2.625	0.438	1.9375	0.23	0.25	—	1.73	5.4	1.428	8.4
72	W728M35-SK	SK	7.218	7.16	7.56	DF-1	2.625	0.438	1.9375	0.23	0.25	—	1.73	6.2	1.428	9.1
80	W808M35-SF	SF	8.02	7.961	8.38	DF-1	2.938	0.563	2.0625	0.23	0.25	—	1.73	6.9	1.428	15.1
90	W908M35-SF	SF	9.023	8.963	—	D-2	2.938	0.563	2.0625	0.23	0.25	—	1.73	7.625	—	20.7
112	W1128M35-SF	SF	11.229	11.166	—	A-3	2.938	0.563	2.0625	0.23	0.25	—	1.73	9.875	—	18.0
144	W1448M35-E	E	14.447	14.37	—	C-3	3.5	0.893	2.6250	—	0.107	—	1.73	12.875	—	38.0
192	W1928M35-E	E	19.249	19.176	—	C-3	3.5	0.893	2.6250	—	0.107	—	1.73	17.625	—	53.0
8mm Pitch, 60 mm (2.36 in.) Wide Belts (8M-60)																
22	W228M60-MPB	MPB	2.206	2.154	2.562	MPBF-1	1.188	0.619	3.375	—	—	1.625	2.756	—	2.506	2.2
24	W248M60-MPB	MPB	2.406	2.354	2.75	MPBF-1	1.25	0.619	3.375	—	—	1.813	2.756	—	2.506	2.7
26	W268M60-MPB	MPB	2.607	2.554	2.937	MPBF-1	1.375	0.619	3.375	—	—	2	2.756	—	2.506	3.3
28	W288M60-MPB	MPB	2.807	2.755	3.156	MPBF-1	1.5	0.619	3.375	—	—	2.281	2.756	—	2.506	4.4
30	W308M60-MPB	MPB	3.008	2.955	3.344	MPBF-1	1.563	0.619	3.375	—	—	2.468	2.756	—	2.506	5.1
32	W328M60-MPB	MPB	3.208	3.155	3.562	MPBF-1	1.625	0.619	3.375	—	—	2.593	2.756	—	2.506	5.9
34	W348M60-MPB	MPB	3.409	3.355	3.750	MPBF-1	1.688	0.619	3.375	—	—	2.796	2.756	—	2.506	6.6
36	W368M60-MPB	MPB	3.609	3.556	3.937	MPBF-1	1.75	0.619	3.375	—	—	3	2.756	—	2.506	7.8
36	W368M60-2012	2012*	3.609	3.556	3.937	KF-1	2	1.506	1.25	—	—	—	2.756	2.82	2.506	2.3
38	W388M60-MPB	MPB	3.810	3.756	4.156	MPBF-1	1.938	0.619	3.375	—	—	3.188	2.756	—	2.506	8.8
38	W388M60-2012	2012*	3.810	3.756	4.156	KF-1	2	1.506	1.25	—	—	—	2.756	3	2.506	2.8
40	W408M60-MPB	MPB	4.010	3.956	4.344	MPBF-1	2.125	0.619	3.375	—	—	3.813	2.756	—	2.506	9.8
40	W408M60-2012	2012*	4.010	3.956	4.344	WF-1	2	1.506	1.25	—	—	—	2.756	3	2.506	2.3
44	W448M60-2517	2517	4.411	4.357	4.75	WF-1	2.5	0.503	1.75	0.503	—	—	2.756	3.5	2.506	5.4
48	W488M60-2517	2517	4.812	4.757	5.157	WF-1	2.5	0.503	1.75	0.503	—	—	2.756	3.8	2.506	3.2
56	W568M60-3020	3020	5.614	5.558	5.937	WF-1	3	0.378	2	0.378	—	—	2.756	4.6	2.506	6.3
64	W648M60-SF	SF	6.416	6.359	6.750	AF-1	2.938	-0.061	2.063	0.754	0.752	—	2.756	5.4	2.506	9.8
72	W728M60-E	E	7.218	7.160	7.562	AF-1	3.5	—	2.625	0.131	1	—	2.756	6.2	2.506	12.8
80	W808M60-E	E	8.020	7.961	8.375	AF-1	3.5	—	2.625	0.131	1	—	2.756	6.9	2.506	19.3
90	W908M60-E	E	9.023	8.963	—	A-1	3.5	—	2.625	0.131	1	—	2.756	7.625	—	20.7
112	W1128M60-F	F	11.229	11.166	—	C-3	4	0.869	3.625	—	0.256	—	2.756	9.875	—	50.3
144	W1448M60-F	F	14.447	14.37	—	C-3	4	0.869	3.625	—	0.256	—	2.756	12.875	—	73.2
192	W1928M60-F	F	19.249	19.176	—	C-3	4	0.869	3.625	—	0.256	—	2.756	17.625	—	81.3

* Weight Shown is for Sprocket Less Bushing.
• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.



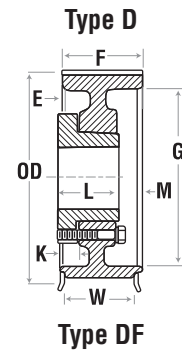
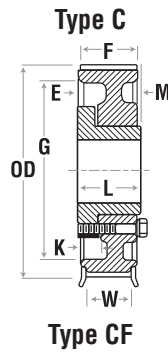
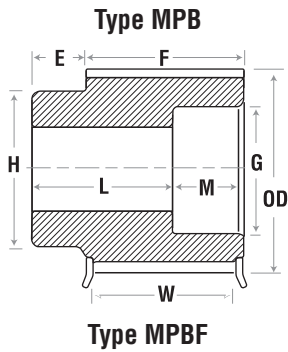
No. of Teeth	Catalog Number	Bore	Pitch	Diameter		Type +	Max Bore	Dimensions							Weight Approx. (lbs.)	
				O.D.	Flange			E	L	M	K	H	F	G		W
14mm Pitch, 20 mm (.79in.) Wide Belts (14M - 20)																
28	W2814M20-SK	SK	4.912	4.805	5.56	DF-1	2.625	0.688	1.938	-0.03	—	—	1.22	2.74	0.908	3.6
29	W2914M20-SK	SK	5.088	4.981	5.56	DF-1	2.625	0.688	1.938	-0.03	—	—	1.22	2.74	0.908	4.0
30	W3014M20-SK	SK	5.263	5.156	6.13	DF-1	2.625	0.688	1.938	-0.03	—	—	1.22	2.74	0.908	4.4
32	W3214M20-SK	SK	5.614	5.507	6.13	DF-1	2.625	0.688	1.938	-0.03	—	—	1.22	2.74	0.908	5.3
34	W3414M20-SK	SK	5.965	5.857	6.5	DF-1	2.625	0.688	1.938	-0.03	—	—	1.22	2.74	0.908	6.2
36	W3614M20-SF	SF	6.316	6.208	6.81	CF-1	2.938	0.813	2.063	-0.03	—	—	1.22	3.05	0.908	5.7
38	W3814M20-SF	SF	6.667	6.559	7.16	CF-1	2.938	0.813	2.063	-0.03	—	—	1.22	3.05	0.908	6.5
40	W4014M20-SF	SF	7.018	6.91	7.5	CF-1	2.938	0.813	2.063	-0.03	—	—	1.22	3.05	0.908	7.6
44	W4414M20-E	E	7.72	7.611	8.22	CF-1	3.5	1	2.625	0.405	—	—	1.22	—	0.908	10.2
48	W4814M20-E	E	8.421	8.312	8.94	CF-1	3.5	1	2.625	0.405	—	—	1.22	—	0.908	13.0
52	W5214M20-E	E	9.123	9.014	9.69	CF-1	3.5	1	2.625	0.405	—	—	1.22	—	0.908	16.7
56	W5614M20-E	E	9.825	9.715	10.38	CF-1	3.5	1	2.625	0.405	—	—	1.22	—	0.908	20.4
60	W6014M20-E	E	10.527	10.417	11.06	CF-1	3.5	1	2.625	0.405	—	—	1.22	—	0.908	23.6
64	W6414M20-E	E	11.229	11.118	11.75	CF-1	3.5	1	2.625	0.405	—	—	1.22	—	0.908	27.1
68	W6814M20-E	E	11.93	11.82	12.5	CF-2	3.5	1	2.625	0.405	—	—	1.22	—	0.908	26.8
72	W7214M20-E	E	12.632	12.521	13.19	CF-2	3.5	1	2.625	0.405	—	—	1.22	—	0.908	29.6
80	W8014M20-E	E	14.036	13.924	14.63	CF-2	3.5	1	2.625	0.405	—	—	1.22	—	0.908	35.3
90	W9014M20-E	E	15.79	15.677	—	C-3	3.5	1.188	2.625	0.218	-0.188	—	1.22	13.563	—	36.6
112	W11214M20-E	E	19.65	19.535	—	C-3	3.5	1.188	2.625	0.218	-0.188	—	1.22	17.375	—	48.0
144	W14414M20-E	E	25.264	25.147	—	C-3	3.5	1.188	2.625	0.218	-0.188	—	1.22	23	—	59.4
168	W16814M20-F	F	29.475	29.355	—	C-3	4	1.563	3.625	0.842	-0.438	—	1.22	27.25	—	98.4
192	W19214M20-J	J	33.686	33.564	—	C-3	4.5	1.938	4.5	1.342	-0.626	—	1.22	31.375	—	147.4
216	W21614M20-J	J	37.896	37.772	—	C-3	4.5	1.938	4.5	1.342	-0.626	—	1.22	35.625	—	155.6
14mm Pitch, 42 mm (1.65 in.) Wide Belts (14M-42)																
28	W2814M42-SK	SK	4.912	4.805	5.56	EF-1 •	2.625	0.837	1.938	0.688	—	—	2.087	2.74	1.774	5.5
29	W2914M42-SK	SK	5.088	4.981	5.56	EF-1 •	2.625	0.837	1.938	0.688	—	—	2.087	2.74	1.774	6.2
30	W3014M42-SK	SK	5.263	5.156	6.13	DF-1	2.625	0.267	1.938	0.416	0.421	—	2.087	3.92	1.774	5.9
32	W3214M42-SK	SK	5.614	5.507	6.13	DF-1	2.625	0.267	1.938	0.416	0.42	—	2.087	3.92	1.774	7.4
34	W3414M42-SF	SF	5.965	5.857	6.5	DF-1	2.938	0.391	2.063	0.415	0.421	—	2.087	3.92	1.774	8.8
36	W3614M42-SF	SF	6.316	6.208	6.81	DF-1	2.938	0.391	2.063	0.415	0.421	—	2.087	4.688	1.774	7.8
38	W3814M42-SF	SF	6.667	6.559	7.16	DF-1	2.938	0.391	2.063	0.415	0.421	—	2.087	4.938	1.774	9.2
40	W4014M42-SF	SF	7.018	6.91	7.5	DF-1	2.938	0.391	2.063	0.415	0.421	—	2.087	5.063	1.774	10.8
44	W4414M42-E	E	7.72	7.611	8.22	DF-1	3.5	0.772	2.625	0.234	0.228	—	2.087	6.125	1.774	13.1
48	W4814M42-E	E	8.421	8.312	8.94	DF-1	3.5	0.772	2.625	0.234	0.228	—	2.087	6.5	1.774	17.2
52	W5214M42-E	E	9.123	9.014	9.69	DF-1	3.5	0.772	2.625	0.234	0.228	—	2.087	7.188	1.774	21.2
56	W5614M42-E	E	9.825	9.715	10.38	DF-1	3.5	0.772	2.625	0.234	0.228	—	2.087	7.875	1.774	25.6
60	W6014M42-E	E	10.527	10.417	11.06	DF-1	3.5	0.772	2.625	0.234	0.228	—	2.087	8.5	1.774	30.3
64	W6414M42-E	E	11.229	11.118	11.75	DF-1	3.5	0.772	2.625	0.234	0.228	—	2.087	9.25	1.774	35.1
68	W6814M42-E	E	11.93	11.82	12.5	DF-2	3.5	0.772	2.625	0.234	0.228	—	2.087	10	1.774	33.7
72	W7214M42-E	E	12.632	12.521	13.19	DF-2	3.5	0.772	2.625	0.234	0.228	—	2.087	10.688	1.774	37.3
80	W8014M42-E	E	14.036	13.924	14.63	DF-2	3.5	0.772	2.625	0.234	0.228	—	2.087	12.125	1.774	44.5
90	W9014M42-F	F	15.79	15.677	—	C-3	4	1.125	3.625	0.413	—	—	2.087	13.563	—	50.8
112	W11214M42-F	F	19.65	19.535	—	C-3	4	1.125	3.625	0.413	—	—	2.087	17.375	—	77.3
144	W14414M42-F	F	25.264	25.147	—	C-3	4	1.125	3.625	0.413	—	—	2.087	23	—	97.4
168	W16814M42-F	F	29.475	29.355	—	C-3	4	1.125	3.625	0.413	—	—	2.087	27.25	—	119.3
192	W19214M42-J	J	33.686	33.564	—	C-3	4.5	1.505	4.5	0.908	—	-0.192	2.087	31.375	—	173.5
216	W21614M42-J	J	37.896	37.772	—	C-3	4.5	1.505	4.5	0.908	—	-0.192	2.087	35.625	—	206.0

* Weight Shown is for Sprocket Less Bushing.
• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

High HP HTS® Sprockets

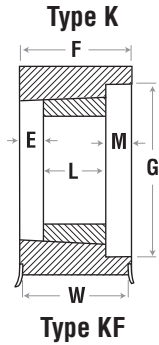
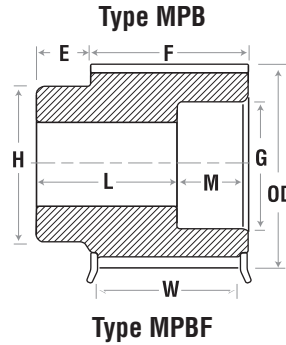
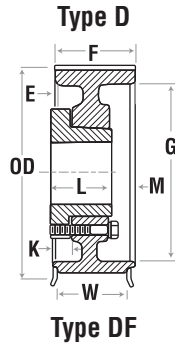
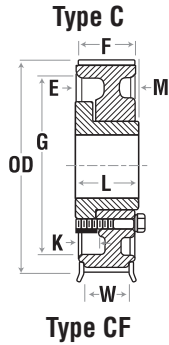
14mm



No. of Teeth	Catalog Number	Bore	Pitch	Diameter		Type +	Max Bore	Dimensions								Weight Approx. (lbs.)
				O.D.	Flange			E	L	M	K	H	F	G	W	
14mm Pitch, 65 mm (2.56in.) Wide Belts (14M - 65)																
28	W2814M65-MPB	MPB	4.912	4.805	5.56	MPBF-1	2.313	1	4.032	—	-	3.688	3.032	—	2.719	15.0
29	W2914M65-MPB	MPB	5.088	4.981	5.56	MPBF-1	2.313	1	4.032	—	-	3.688	3.032	—	2.719	16.0
30	W3014M65-MPB	MPB	5.263	5.156	6.13	MPBF-1	2.5	1	4.032	—	-	4.141	3.032	—	2.719	18.0
32	W3214M65-MPB	MPB	5.614	5.507	6.13	MPBF-1	2.5	1	4.032	—	-	4.141	3.032	—	2.719	20.2
34	W3414M65-MPB	MPB	5.965	5.857	6.5	MPBF-1	2.688	1	4.032	—	-	4.484	3.032	—	2.719	23.4
36	W3614M65-MPB	MPB	6.316	6.208	6.81	MPBF-1	3	1	4.032	—	-	4.875	3.032	—	2.719	24.5
36	W3614M65-3030	3030*	6.316	6.208	6.81	MPBF-1	3	0.032	3	—	-	—	3.032	—	2.719	10.8
38	W3814M65-MPB	MPB	6.667	6.559	7.16	MPBF-1	3.250	1	4.032	—	-	5.172	3.032	—	2.719	27.6
38	W3814M65-3030	3030*	6.667	6.559	7.16	MPBF-1	3	0.032	3	—	-	—	3.032	—	2.719	13.4
40	W4014M65-MPB	MPB	7.018	6.910	7.5	MPBF-1	3.438	1	4.032	—	-	5.563	3.032	—	2.719	31.5
40	W4014M65-3535	3535*	7.018	6.910	7.5	CF-1	3.5	0.468	3.5	—	-	6.125	3.032	3.875	2.719	13.2
44	W4414M65-E	E	7.720	7.611	8.22	DF-1	3.5	0.125	2.625	0.532	0.875	—	3.032	6.125	2.719	16.2
48	W4814M65-E	E	8.421	8.312	8.94	DF-1	3.5	0.125	2.625	0.532	0.875	—	3.032	6.5	2.719	21.4
52	W5214M65-E	E	9.123	9.014	9.69	DF-1	3.5	0.125	2.625	0.532	0.875	—	3.032	7.188	2.719	25.9
56	W5614M65-F	F	9.825	9.715	10.38	CF-1	4	0.594	3.625	—	0.531	—	3.032	7.875	2.719	36.3
60	W6014M65-F	F	10.527	10.417	11.06	CF-1	4	0.594	3.625	—	0.531	—	3.032	8.5	2.719	43.5
64	W6414M65-F	F	11.229	11.118	11.75	CF-1	4	0.594	3.625	—	0.531	—	3.032	9.25	2.719	51.0
68	W6814M65-F	F	11.930	11.820	12.5	CF-2	4	0.594	3.625	—	0.531	7.75	3.032	10	2.719	47.9
72	W7214M65-F	F	12.632	12.521	13.19	CF-2	4	0.594	3.625	—	0.531	7.75	3.032	10.688	2.719	52.7
80	W8014M65-F	F	14.036	13.924	14.63	CF-2	4	0.594	3.625	—	0.531	7.75	3.032	12.125	2.719	61.2
90	W9014M65-F	F	15.790	15.677	—	C-3	4	0.594	3.625	—	0.531	7.75	3.032	13.563	—	59.8
112	W11214M65-J	J	19.650	19.535	—	C-3	4.5	1.250	4.5	0.219	0.063	9	3.032	17.375	—	104.2
144	W14414M65-M	M	25.264	25.147	—	C-3	5.5	2.063	6.75	1.657	-0.5	11.375	3.032	23	—	197.3
168	W16814M65-M	M	29.475	29.355	—	C-3	5.5	2.063	6.75	1.657	-0.5	11.375	3.032	27.25	—	207.0
192	W19214M65-M	M	33.686	33.564	—	C-3	5.5	2.063	6.75	1.657	-0.5	11.375	3.032	31.375	—	173.5
216	W21614M65-M	M	37.896	37.772	—	C-3	5.5	2.063	6.75	1.657	-0.5	11.375	3.032	35.625	—	253.0

* Weight Shown is for Sprocket Less Bushing.
• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

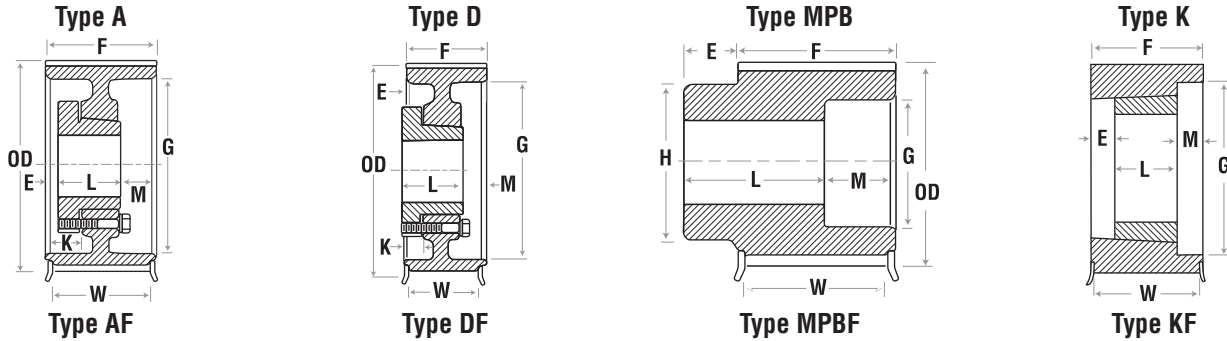


No. of Teeth	Catalog Number	Bore	Pitch	Diameter		Type +	Max Bore	Dimensions								Weight Approx. (lbs.)
				O.D.	Flange			E	L	M	K	H	F	G	W	
14mm Pitch, 90 mm (3.54 in.) Wide Belts (14M-90)																
28	W2814M90-MPB	MPB	4.912	4.805	5.56	MPBF-1	2.313	1	5.055	—	—	3.688	4.055	—	3.743	18.9
29	W2914M90-MPB	MPB	5.088	4.981	5.56	MPBF-1	2.313	1	5.055	—	—	3.688	4.055	—	3.743	20.2
30	W3014M90-MPB	MPB	5.263	5.156	6.13	MPBF-1	2.5	1	5.055	—	—	4.141	4.055	—	3.743	10.9
32	W3214M90-MPB	MPB	5.614	5.507	6.13	MPBF-1	2.5	1	5.055	—	—	4.141	4.055	—	3.743	13.9
34	W3414M90-MPB	MPB	5.965	5.857	6.5	MPBF-1	2.688	1	5.055	—	—	4.484	4.055	—	3.743	16.7
36	W3614M90-MPB	MPB	6.316	6.208	6.81	MPBF-1	3	1	5.055	—	—	4.875	4.055	—	3.743	31.4
38	W3814M90-MPB	MPB	6.667	6.559	7.16	MPBF-1	3.25	1	5.055	—	—	5.172	4.055	4.938	3.743	35.5
40	W4014M90-3535	3535	7.018	6.91	7.5	KF-1	3.5	0.555	3.5	—	—	—	4.055	—	3.743	17.1
44	W4414M90-3535	3535	7.72	7.611	8.22	KF-1	4	0.555	3.5	—	—	—	4.055	—	3.743	24.8
48	W4814M90-4040	4040	8.421	8.312	8.94	KF-1	4	0.055	4	—	—	—	4.055	—	3.743	27.0
52	W5214M90-F	F	9.123	9.014	9.69	DF-1	4	0.347	3.625	0.778	0.778	—	4.055	7.188	3.743	34.7
56	W5614M90-F	F	9.825	9.715	10.38	DF-1	4	0.347	3.625	0.778	0.778	—	4.055	7.875	3.743	36.3
60	W6014M90-F	F	10.527	10.417	11.06	DF-1	4	0.347	3.625	0.778	0.778	—	4.055	8.5	3.743	49.8
64	W6414M90-F	F	11.229	11.118	11.75	DF-1	4	0.347	3.625	0.778	0.778	—	4.055	9.25	3.743	57.6
68	W6814M90-F	F	11.93	11.82	12.5	DF-2	4	0.347	3.625	0.778	0.778	—	4.055	10	3.743	54.8
72	W7214M90-F	F	12.632	12.521	13.19	DF-2	4	0.347	3.625	0.778	0.778	—	4.055	10.688	3.743	60.0
80	W8014M90-J	J	14.036	13.924	14.63	CF-2	4.5	0.375	4.5	0.07	0.938	—	4.055	12.125	3.743	81.5
90	W9014M90-J	J	15.79	15.677	—	C-3	4.5	0.375	4.5	0.07	0.938	—	4.055	13.563	—	77.4
112	W11214M90-J	J	19.65	19.535	—	C-3	4.5	0.375	4.5	0.07	0.938	—	4.055	17.375	—	116.2
144	W14414M90-M	M	25.264	25.147	—	C-3	5.5	1.563	6.75	1.132	—	11.375	4.055	23	—	220.0
168	W16814M90-M	M	29.475	29.355	—	C-3	5.5	1.563	6.75	1.132	—	11.375	4.055	27.25	—	207.0
192	W19214M90-M	M	33.686	33.564	—	C-3	5.5	1.563	6.75	1.132	—	11.375	4.055	31.375	—	268.4
216	W21614M90-M	M	37.896	37.772	—	C-3	5.5	1.563	6.75	1.132	—	11.375	4.055	35.625	—	278.1

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• Reverse Mount Only

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High HP HTS® Sprockets 14mm



No. of Teeth	Catalog Number	Bore	Pitch	Diameter		Type +	Max Bore	Dimensions							Weight Approx. (lbs.)	
				O.D.	Flange			E	L	M	K	H	F	G		W
14mm Pitch, 120 mm (4.72 in.) Wide Belts (14M-120)																
28	W2814M120-MPB	MPB	4.912	4.805	5.56	MPBF-1	2.313	1	4.986	1.25	—	3.688	5.236	3.125	4.924	22.0
29	W2914M120-MPB	MPB	5.088	4.981	5.56	MPBF-1	2.313	1	4.986	1.25	—	3.688	5.236	3.125	4.924	23.8
30	W3014M120-MPB	MPB	5.263	5.156	6.13	MPBF-1	2.5	1	4.986	1.25	—	4.141	5.236	3.906	4.924	25.1
32	W3214M120-MPB	MPB	5.614	5.507	6.13	MPBF-1	2.5	1	4.986	1.25	—	4.141	5.236	3.906	4.924	29.0
34	W3414M120-MPB	MPB	5.965	5.857	6.5	MPBF-1	2.688	1	4.986	1.25	—	4.484	5.236	4.063	4.924	33.7
36	W3614M120-MPB	MPB	6.316	6.208	6.81	MPBF-1	3	1	4.986	1.25	—	4.875	5.236	4.688	4.924	34.0
38	W3814M120-MPB	MPB	6.667	6.559	7.16	MPBF-1	3.25	1	4.986	1.25	—	5.172	5.236	4.938	4.924	38.4
40	W4014M120-MPB	MPB	7.018	6.91	7.5	MPBF-1	3.438	1	4.986	1.25	—	5.563	5.236	5.063	4.924	43.4
44	W4414M120-3535	3535	7.72	7.611	8.22	KF-1	4	0.868	3.5	0.868	—	—	5.236	5.875	4.924	24.8
48	W4814M120-4040	4040	8.421	8.312	8.94	KF-1	4	0.618	4	0.618	—	—	5.236	6.625	4.924	31.8
52	W5214M120-F	F	9.123	9.014	9.69	AF-1	4	1.125	3.625	1.361	1.375	—	5.236	7.188	4.924	34.7
56	W5614M120-F	F	9.825	9.715	10.38	AF-1	4	1.125	3.625	1.361	1.375	—	5.236	7.875	4.924	48.4
60	W6014M120-F	F	10.527	10.417	11.06	AF-1	4	1.125	3.625	1.361	1.375	—	5.236	8.5	4.924	57.1
64	W6414M120-J	J	11.229	11.118	11.75	DF-1	4.5	0.293	4.5	1.029	1.02	—	5.236	9.25	4.924	69.7
68	W6814M120-J	J	11.93	11.82	12.5	DF-1	4.5	0.293	4.5	1.029	1.02	—	5.236	10	4.924	80.4
72	W7214M120-J	J	12.632	12.521	13.19	DF-1	4.5	0.293	4.5	1.029	1.02	—	5.236	10.688	4.924	92.2
80	W8014M120-J	J	14.036	13.924	14.63	DF-2	4.5	0.293	4.5	1.029	1.02	—	5.236	12.125	4.924	92.5
90	W9014M120-M	M	15.79	15.677	—	C-2	5.5	1.514	6.75	—	0.049	10	5.236	13.563	—	134.5
112	W11214M120-M	M	19.65	19.535	—	C-3	5.5	1.514	6.75	—	0.049	11.375	5.236	17.375	—	193.4
144	W14414M120-M	M	25.264	25.147	—	C-3	5.5	1.514	6.75	—	0.049	11.375	5.236	23	—	234.6
168	W16814M120-M	M	29.475	29.355	—	C-3	5.5	1.514	6.75	—	0.049	11.375	5.236	27.25	—	245.8
192	W19214M120-N	N	33.686	33.564	—	C-3	6	1.875	8.125	1.014	—	12	5.236	31.375	—	381.5

* Weight Shown is for Sprocket Less Bushing.
• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

MPC® Synchronous Sprockets



Bushing Options

PB Minimum Plain Bore
F QD - Air Cooler Heat
No prefix Taper Bushed

F 8MX 22S 12 - SH

Bushing Options

QD JA, SH, SDS... S
TB 1008, 1108... 120100

Belt Pitch

8mm

14mm

Belt Width (mm)

12, 21, 36, 62

20, 37, 68, 90, 125

Number of Teeth "S" identifies it as an MPC®

Introducing our newest synchronous sprocket.

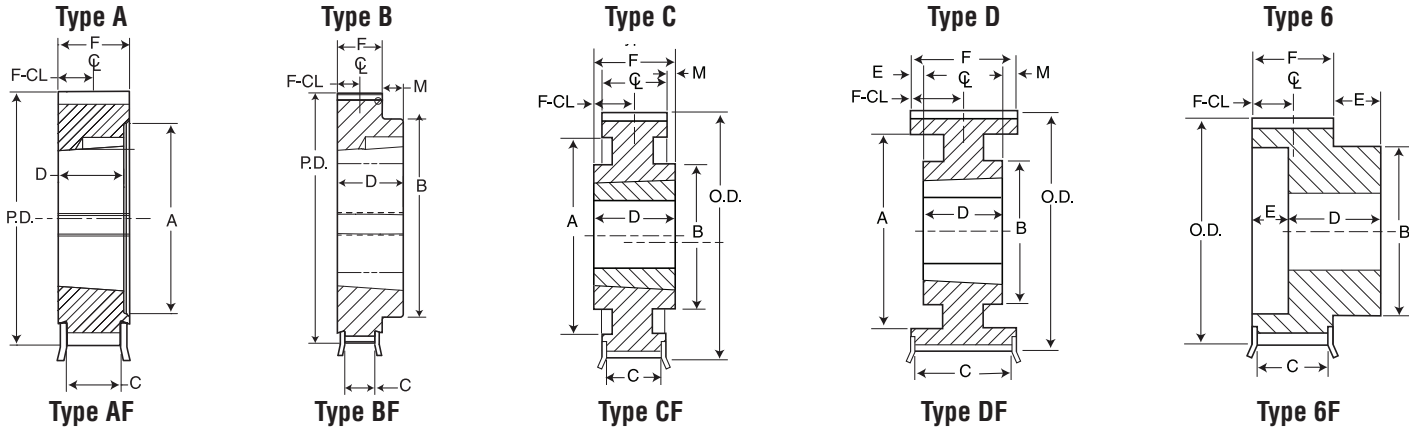
The addition of our MPC® sprocket line makes *Martin* your one-stop-shop for all your synchronous sprocket needs. Match your sprocket to your favorite belt.

MPC® Synchronous Sprockets are available in your desired configuration.

- Available in 8mm and 14mm pitches.
- Belt widths:
 12mm, 21mm, 36mm, 62mm (8mm pitch)
 20mm, 37mm, 68mm, 90mm, 125mm (14mm pitch)
- Available in QD, TB or other special adapters.
- Special diameters and widths, as well as special materials, are also available.

MPC® Sprockets

8mm

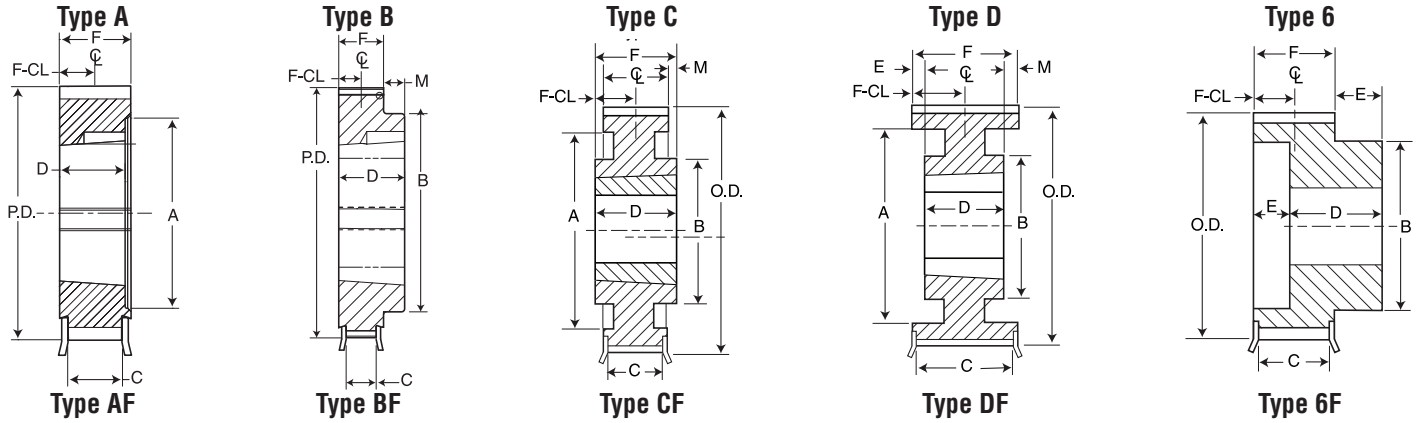


8mm Pitch — 12mm Wide Belt

No. of Teeth	Catalog Number	Bore	Pitch Diameter	Diameter		Type	Max Bore	Dimensions								Weight Approx. (lbs.)
				O.D.	Max Flange O.D.			A	B	C	D	E	F	M	F-CL	
MBP 8mm Pitch, 12mm (0.47 in.) Wide Belts (8M -12)																
22	PB8MX22S12	1/2	2.206	2.143	2.61	6F-1	1.188	-	1.79	0.57	1.31	0.46	0.82	-	0.41	1.1
25	PB8MX25S12	1/2	2.506	2.443	2.91	6F-1	1.500	-	2.08	0.57	1.31	0.46	0.82	-	0.41	1.5
28	PB8MX28S12	1/2	2.807	2.744	3.21	6F-1	1.750	-	2.34	0.57	1.31	0.46	0.82	-	0.41	1.9
30	PB8MX30S12	1/2	3.008	2.945	3.41	6F-1	1.813	-	2.54	0.57	1.42	0.57	0.82	-	0.41	2.3
32	PB8MX32S12	1/2	3.208	3.145	3.61	6F-1	2	-	2.73	0.57	1.42	0.57	0.82	-	0.41	2.7
Taper Bushed 8mm Pitch, 12mm (0.47 in.) Wide Belts (8M -12)																
22	8MX22S12-1008	1008	2.206	2.143	2.61	AF-1	1	-	-	0.63	0.88	-	0.88	-	0.44	0.5
25	8MX25S12-1108	1108	2.506	2.443	2.91	AF-1	1.125	-	-	0.63	0.88	-	0.88	-	0.44	0.7
26	8MX26S12-1108	1108	2.607	2.906	2.906	AF-1	1.125	-	-	0.63	0.88	-	0.88	-	0.44	0.8
27	8MX27S12-1108	1108	2.707	2.644	3.207	AF-1	1.125	-	-	0.63	0.88	-	0.88	-	0.44	0.9
28	8MX28S12-1108	1108	2.807	2.744	3.21	AF-1	1.125	-	-	0.63	0.88	-	0.88	-	0.44	1.0
29	8MX29S12-1108	1108	2.907	2.844	3.09	AF-1	1.125	-	-	0.63	0.88	-	0.88	-	0.44	1.2
30	8MX30S12-1108	1108	3.008	2.945	3.41	AF-1	1.125	-	-	0.63	0.88	-	0.88	-	0.44	1.3
31	8MX31S12-1210	1210	3.108	3.045	3.328	AF-1	1.25	-	-	0.75	1	-	1	-	0.5	1.3
32	8MX32S12-1210	1210	3.208	3.145	3.61	AF-1	1.25	-	-	0.75	1	-	1	-	0.5	1.4
33	8MX33S12-1610	1610	3.308	3.245	3.566	AF-1	1.625	-	-	0.75	1	-	1	-	0.5	1.3
34	8MX34S12-1610	1610	3.409	3.346	3.81	AF-1	1.625	-	-	0.75	1	-	1	-	0.5	1.3
35	8MX35S12-1610	1610	3.509	3.446	3.805	AF-1	1.625	-	-	0.75	1	-	1	-	0.5	1.3
36	8MX36S12-1610	1610	3.609	3.456	4.01	AF-1	1.625	-	-	0.75	1	-	1	-	0.5	1.2
37	8MX37S12-1610	1610	3.709	3.646	4.044	AF-1	1.625	-	-	0.75	1	-	1	-	0.5	1.6
38	8MX38S12-1610	1610	3.810	3.747	4.21	AF-1	1.62	-	-	0.75	1	-	1	-	0.5	1.7
39	8MX39S12-1610	1610	3.910	3.847	4.41	AF-1	1.625	-	-	0.75	1	-	1	-	0.5	1.7
40	8MX40S12-2012	2012	4.010	3.947	4.41	BF-1	2	-	3.56	0.57	1.25	-	0.82	0.43	0.41	1.7
41	8MX41S12-2012	2012	4.110	4.047	4.52	BF-1	2	-	3.65	0.65	1.25	-	0.82	0.43	0.41	1.8
42	8MX42S12-2012	2012	4.211	4.148	4.91	BF-1	2	-	3.76	0.57	1.25	-	0.82	0.43	0.41	2.2
45	8MX45S12-2012	2012	4.511	4.448	4.91	BF-1	2	-	3.76	0.57	1.25	-	0.82	0.43	0.41	2.5
48	8MX48S12-2012	2012	4.812	4.749	5.21	BF-1	2	-	3.76	0.57	1.25	-	0.82	0.43	0.41	3.4
50	8MX50S12-2012	2012	5.013	4.950	5.41	BF-1	2	-	3.76	0.57	1.25	-	0.82	0.43	0.41	3.7
53	8MX53S12-2012	2012	5.314	5.251	5.5	BF-1	2	-	3.76	0.57	1.25	-	0.82	0.43	0.41	4.7
56	8MX56S12-2012	2012	5.614	5.551	6.01	BF-1	2	-	3.76	0.57	1.25	-	0.82	0.43	0.41	5.4
60	8MX60S12-2012	2012	6.015	5.952	6.41	BF-1	2	-	3.76	0.57	1.25	-	0.82	0.43	0.41	6.3
63	8MX63S12-2012	2012	6.316	6.253	6.72	CF-1	2	5.71	4	0.57	1.25	-	0.82	0.43	0.41	5.6
67	8MX67S12-2012	2012	6.717	6.654	6.87	CF-1	2	6.14	4	0.57	1.25	-	0.82	0.43	0.41	4.3
71	8MX71S12-2012	2012	7.118	7.055	7.5	CF-1	2	6.51	4	0.57	1.25	-	0.82	0.43	0.41	4.7
75	8MX75S12-2012	2012	7.519	7.456	7.92	CF-1	2	6.9	4	0.57	1.25	-	0.82	0.43	0.41	5.1
80	8MX80S12-2012	2012	8.020	7.957	8.42	CF-1	2	7.23	4	0.57	1.25	-	0.82	0.43	0.41	5.8
90	8MX90S12-2012	2012	9.023	8.96	-	C-2	2	8.05	4	-	1.25	-	0.82	0.43	0.41	9.4
112	8MX112S12-2012	2012	11.229	11.166	-	C-2	2	10.25	4	-	1.25	-	0.82	0.43	0.41	16.6
140	8MX140S12-2012	2012	14.036	13.973	-	C-3	2	11.96	4.38	-	1.25	-	0.82	0.43	0.41	17.3
180	8MX180S12-2517	2517	18.046	17.893	-	C-3	2.5	15.8	4.88	-	1.75	-	0.82	0.93	0.41	30.0
224	8MX224S12-2517	2517	22.457	22.394	-	C-3	2.5	20.17	4.88	-	1.75	-	0.82	0.93	0.41	41.2

Type: 1 - Solid 2 - Web 3 - Arms F=Flanged

NOTE: Weights for Minimum Plain Bore (MPB) Sprockets are with minimum bore. Weights for Bushed Sprockets less bushing. Dimensions in Inches. Weight in pounds.



8mm Pitch — 21mm Wide Belt

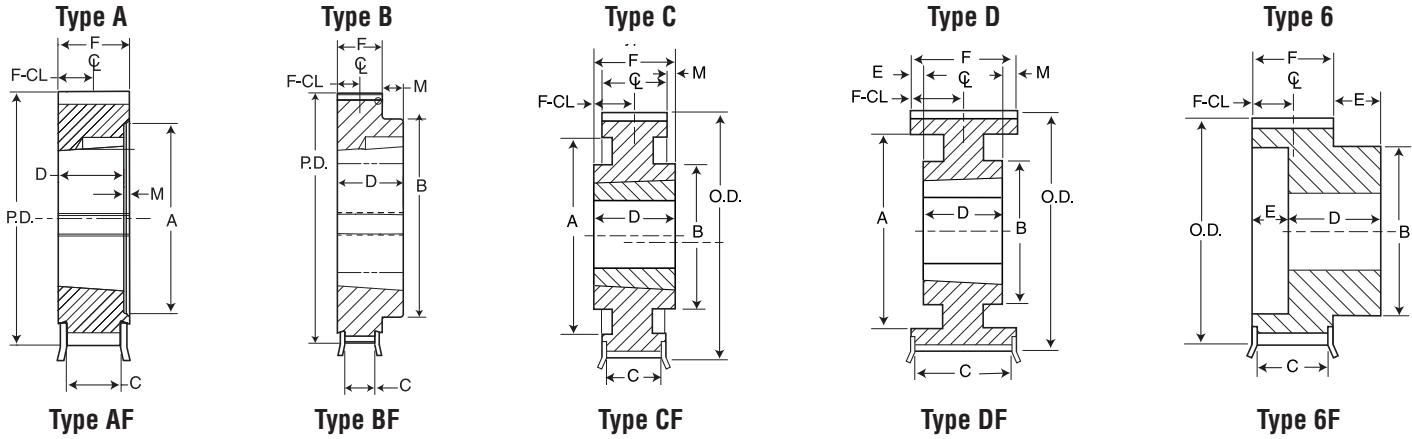
No. of Teeth	Catalog Number	Bore	Pitch Diameter	Diameter		Type	Max Bore	Dimensions								Weight Approx. (lbs.)
				O.D.	Max Flange O.D.			A	B	C	D	E	F	M	F-CL	
MBP 8mm Pitch, 21mm (0.83 in.) Wide Belts (8M -21)																
22	PB8MX22S21	MPB	2.206	2.143	2.61	6F-1	1.188	-	1.79	0.92	1.65	0.45	1.2	-	0.60	1.3
25	PB8MX25S21	MPB	2.506	2.443	2.91	6F-1	1.5	-	2.08	0.92	1.65	0.45	1.2	-	0.60	1.8
28	PB8MX28S21	MPB	2.807	2.744	3.21	6F-1	1.75	-	2.34	0.92	1.65	0.45	1.2	-	0.60	2.3
30	PB8MX30S21	MPB	3.008	2.945	3.41	6F-1	1.813	-	2.54	0.92	1.77	0.57	1.2	-	0.60	2.8
32	PB8MX32S21	MPB	3.208	3.145	3.61	6F-1	2	-	2.73	0.92	1.77	0.57	1.2	-	0.60	3.2
Taper Bushed 8mm Pitch, 21mm (0.83 in.) Wide Belts (8M -21)																
22	8MX22S21-1008	1008	2.206	2.143	2.61	AF-1	1	1.63	-	0.92	0.88	-	1.2	-	0.60	0.6
25	8MX25S21-1108	1108	2.506	2.443	2.91	AF-1	1.125	1.92	-	0.92	0.88	-	1.2	-	0.60	0.8
26	8MX26S21-1108	1108	2.607	2.906	2.906	AF-1	1.125	1.85	-	0.92	0.88	-	1.2	-	0.60	0.8
27	8MX27S21-1108	1108	2.707	2.644	3.207	AF-1	1.125	1.95	-	0.92	0.88	-	1.2	-	0.60	1.0
28	8MX28S21-1108	1108	2.807	2.744	3.21	AF-1	1.125	2.18	-	0.92	0.88	-	1.2	-	0.60	1.1
29	8MX29S21-1108	1108	2.907	2.844	3.09	AF-1	1.125	2.15	-	0.92	0.88	-	1.2	-	0.60	1.4
30	8MX30S21-1108	1108	3.008	2.945	3.41	AF-1	1.125	2.38	-	0.92	0.88	-	1.2	-	0.60	1.5
31	8MX31S21-1210	1210	3.108	3.045	3.328	AF-1	1.25	2.35	-	0.92	1.00	-	1.2	-	0.60	1.6
32	8MX32S21-1210	1210	3.208	3.145	3.61	AF-1	1.25	2.58	-	0.92	1.00	-	1.2	-	0.60	3.0
33	8MX33S21-1610	1610	3.308	3.245	3.566	AF-1	1.625	2.66	-	0.92	1.00	-	1.2	-	0.60	1.4
34	8MX34S21-1610	1610	3.409	3.346	3.81	AF-1	1.625	2.66	-	0.92	1.00	-	1.2	-	0.60	1.9
35	8MX35S21-1610	1610	3.509	3.446	3.805	AF-1	1.625	2.75	-	0.92	1.00	-	1.2	-	0.60	1.5
36	8MX36S21-1610	1610	3.609	3.456	4.01	AF-1	1.625	2.96	-	0.92	1.00	-	1.2	-	0.60	1.6
37	8MX37S21-1610	1610	3.709	3.646	4.044	AF-1	1.625	2.95	-	0.92	1.00	-	1.2	-	0.60	1.7
38	8MX38S21-1610	1610	3.810	3.747	4.21	AF-1	1.625	3.15	-	0.92	1.00	-	1.2	-	0.60	1.9
39	8MX39S21-1610	1610	3.910	3.847	4.41	AF-1	1.625	3.14	-	0.92	1.00	-	1.2	-	0.60	2.0
40	8MX40S21-2012	2012	4.010	3.947	4.41	AF-1	2	-	-	0.97	1.25	-	1.25	-	0.63	2.0
41	8MX41S21-2012	2012	4.110	4.047	4.52	BF-1	2	-	3.4	1	1.25	-	1.20	-	0.60	2.2
42	8MX42S21-2012	2012	4.211	4.148	4.91	AF-1	2	-	-	0.97	1.25	-	1.25	-	0.63	2.4
45	8MX45S21-2012	2012	4.511	4.448	4.91	AF-1	2	-	-	0.97	1.25	-	1.25	-	0.63	3.0
48	8MX48S21-2012	2012	4.812	4.749	5.21	AF-1	2	-	-	0.97	1.25	-	1.25	-	0.63	3.4
50	8MX50S21-2012	2012	5.013	4.95	5.41	AF-1	2	-	-	0.97	1.25	-	1.25	-	0.63	4.2
53	8MX53S21-2012	2012	5.314	5.251	5.5	AF-1	2	-	-	0.97	1.25	-	1.25	-	0.63	5.0
56	8MX56S21-2012	2012	5.614	5.551	6.01	AF-1	2	-	-	0.97	1.25	-	1.25	-	0.63	4.9
60	8MX60S21-2012	2012	6.015	5.952	6.41	AF-1	2	-	-	0.97	1.25	-	1.25	-	0.63	6.9
63	8MX63S21-2012	2012	6.316	6.253	6.72	CF-1	2	5.71	3.76	0.92	1.25	-	1.20	0.05	0.60	7.7
67	8MX67S21-2517	2517	6.717	6.654	6.87	CF-1	2.5	6.14	4.5	0.92	1.75	-	1.20	0.55	0.60	5.7
71	8MX71S21-2517	2517	7.118	7.055	7.5	CF-1	2.5	6.51	4.5	0.92	1.75	-	1.20	0.55	0.60	6.1
75	8MX75S21-2517	2517	7.519	7.456	7.92	CF-1	2.5	6.9	4.5	0.92	1.75	-	1.20	0.55	0.60	9.2
80	8MX80S21-2517	2517	8.020	7.957	8.42	CF-1	2.5	7.23	4.5	0.92	1.75	-	1.20	0.55	0.60	7.5
90	8MX90S21-2517	2517	9.023	8.96	-	C-2	2.5	7.78	4.5	-	1.75	-	1.20	0.55	0.60	11.0
112	8MX112S21-2517	2517	11.229	11.166	-	C-2	2.5	10	4.5	-	1.75	-	1.20	0.55	0.60	19.4
140	8MX140S21-2517	2517	14.036	13.973	-	C-3	2.5	11.74	4.88	-	1.75	-	1.20	0.55	0.60	26.8
180	8MX180S21-3020	3020	18.046	17.893	-	C-3	3	15.49	6.25	-	2.00	-	1.20	0.80	0.60	36.6
224	8MX224S21-3020	3020	22.457	22.394	-	C-3	3	19.86	6.25	-	2.00	-	1.20	0.80	0.60	50.1

Type: 1 - Solid 2 - Web 3 - Arms F=Flanged

NOTE: Weights for Minimum Plain Bore (MPB) Sprockets are with minimum bore. Weights for Bushed Sprockets less bushing. Dimensions in Inches. Weight in pounds.

MPC® Sprockets

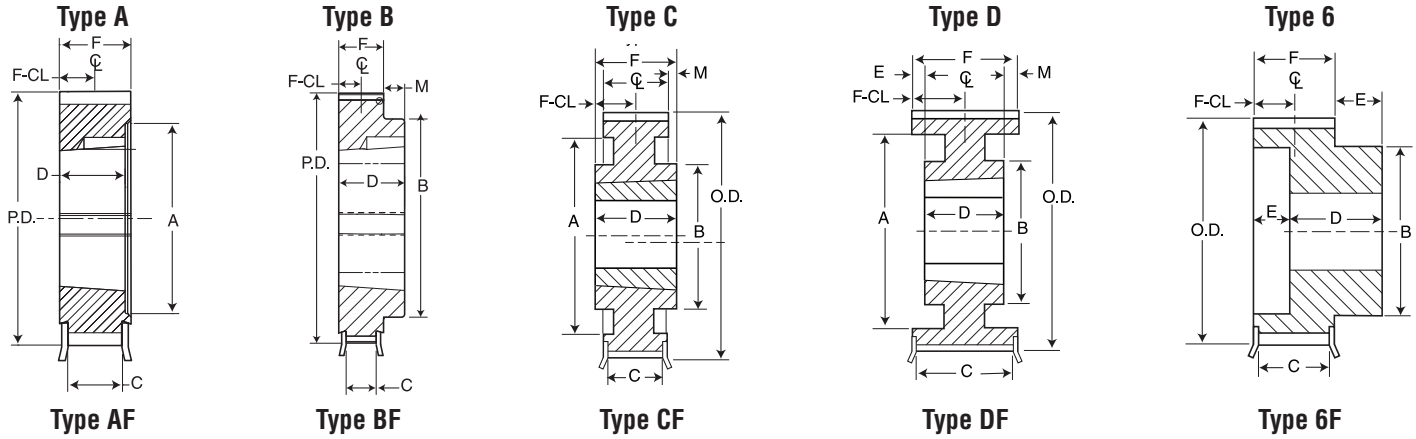
8mm



8mm Pitch — 36mm Wide Belt

No. of Teeth	Catalog Number	Bore	Pitch Diameter	Diameter		Type	Max Bore	Dimensions								Weight Approx. (lbs.)
				O.D.	Max Flange O.D.			A	B	C	D	E	F	M	F-CL	
MBP 8mm Pitch, 36mm (1.42 in.) Wide Belts (8M -36)																
22	PB8MX22S36	MPB	2.206	2.143	2.61	6F-1	1.188	-	1.79	1.58	2.44	.58	1.86	-	0.93	2.0
25	PB8MX25S36	MPB	2.506	2.443	2.91	6F-1	1.500	-	2.08	1.58	2.44	.58	1.86	-	0.93	2.7
28	PB8MX28S36	MPB	2.807	2.744	3.21	6F-1	1.750	-	2.34	1.58	2.44	.58	1.86	-	0.93	3.5
30	PB8MX30S36	MPB	3.008	2.945	3.41	6F-1	1.813	-	2.54	1.58	2.44	.58	1.86	-	0.93	4.1
32	PB8MX32S36	MPB	3.208	3.145	3.61	6F-1	2	-	2.73	1.58	2.44	.58	1.86	-	0.93	3.9
34	PB8MX34S36	MPB	3.409	3.346	3.81	6F-1	2.125	-	2.82	1.58	2.45	.59	1.86	-	0.93	4.3
36	PB8MX36S36	MPB	3.609	3.546	4.01	6F-1	2.313	-	3.13	1.58	2.51	.65	1.86	-	0.93	5.9
38	PB8MX38S36	MPB	3.81	3.747	4.21	6F-1	2.438	-	3.32	1.58	2.51	.65	1.86	-	0.93	6.7
Taper Bushed 8mm Pitch, 36mm (1.42 in.) Wide Belts (8M -36)																
32	8MX32S36-1210	1210	3.208	3.145	3.61	AF-1	1.250	2.58	-	1.58	1	-	1.83	0.83	0.93	2.0
33	8MX33S36-1610	1610	3.308	3.245	3.566	AF-1	1.625	2.56	-	1.66	1	-	1.83	0.83	0.93	1.7
34	8MX34S36-1610	1610	3.409	3.346	3.81	AF-1	1.625	2.66	-	1.58	1	-	1.83	0.83	0.93	1.8
35	8MX35S36-1610	1610	3.509	3.446	3.805	AF-1	1.625	2.76	-	1.66	1	-	1.83	0.83	0.93	2.0
36	8MX36S36-1610	1610	3.609	3.546	4.01	AF-1	1.625	2.96	-	1.58	1	-	1.83	0.83	0.93	2.7
37	8MX37S36-1610	1610	3.709	3.646	4.044	AF-1	1.625	2.9	-	1.66	1	-	1.83	0.83	0.93	2.1
38	8MX38S36-1610	1610	3.81	3.747	4.21	AF-1	1.625	3.15	-	1.58	1	-	1.83	0.83	0.93	2.9
39	8MX39S36-1610	1610	3.91	3.847	4.41	AF-1	1.625	3.1	-	1.58	1	-	1.83	0.83	0.93	2.4
40	8MX40S36-2012	2012	4.01	3.947	4.41	AF-1	2	3.35	-	1.58	1.25	-	1.83	0.58	0.93	2.5
41	8MX41S36-2012	2012	4.11	4.047	4.52	AF-1	2	3.36	-	1.58	1.25	-	1.83	0.58	0.93	2.4
42	8MX42S36-2012	2012	4.211	4.148	4.91	AF-1	2	3.62	-	1.58	1.25	-	1.83	0.58	0.93	2.8
45	8MX45S36-2012	2012	4.511	4.448	4.91	AF-1	2	3.62	-	1.58	1.25	-	1.83	0.58	0.93	4.0
48	8MX48S36-2012	2012	4.812	4.749	5.21	AF-1	2	4.14	-	1.58	1.25	-	1.83	0.58	0.93	4.3
50	8MX50S36-2012	2012	5.013	4.95	5.41	AF-1	2	4.13	-	1.58	1.25	-	1.83	0.58	0.93	5.1
53	8MX53S36-2012	2012	5.314	5.251	5.5	AF-1	2	4.76	-	1.58	1.25	-	1.83	0.58	0.93	6.0
56	8MX56S36-2012	2012	5.614	5.551	6.01	AF-1	2	4.92	-	1.58	1.25	-	1.83	0.58	0.93	6.5
60	8MX60S36-2517	2517	6.015	5.952	6.42	AF-1	2.5	5.13	-	1.58	1.75	-	1.83	0.58	0.93	8.9
63	8MX63S36-2517	2517	6.316	6.253	6.72	AF-1	2.5	5.71	-	1.58	1.75	-	1.83	0.08	0.93	9.3
67	8MX67S36-2517	2517	6.717	6.654	6.88	DF-1	2.5	5.98	4.25	1.58	1.75	-	1.83	0.08	0.93	10.0
71	8MX71S36-2517	2517	7.118	7.055	7.5	DF-1	2.5	6.39	4.25	1.58	1.75	-	1.83	0.08	0.93	7.0
75	8MX75S36-2517	2517	7.519	7.456	7.92	DF-1	2.5	6.79	4.25	1.58	1.75	-	1.83	0.08	0.93	13.3
80	8MX80S36-3020	3020	8.02	7.957	8.42	BF-1	3	-	5.75	1.58	2	-	1.83	0.08	0.93	15.3
90	8MX90S36-3020	3020	9.023	8.960	-	B-1	3	-	5.75	-	2	-	1.83	0.17	0.93	20.9
112	8MX112S36-3020	3020	11.229	11.166	-	C-2	3	9.8	5.75	-	2	-	1.83	0.17	0.93	22.0
140	8MX140S36-3020	3020	14.036	13.973	-	C-3	3	11.72	6.25	-	2	-	1.83	0.17	0.93	39.3
180	8MX180S36-3020	3020	18.046	17.983	-	C-3	3	15.31	6.25	-	2	-	1.83	0.17	0.93	48.9
224	8MX224S36-3525	3525	22.457	22.394	-	C-3	3.5	19.62	8.75	-	2.5	-	1.83	0.67	0.93	92.2

Type: 1- Solid 2- Web 3- Arms F=Flanged
 NOTE: Weights for Minimum Plain Bore (MPB) Sprockets are with minimum bore.
 Weights for Bushed Sprockets less bushing.
 Dimensions in Inches. Weight in pounds.

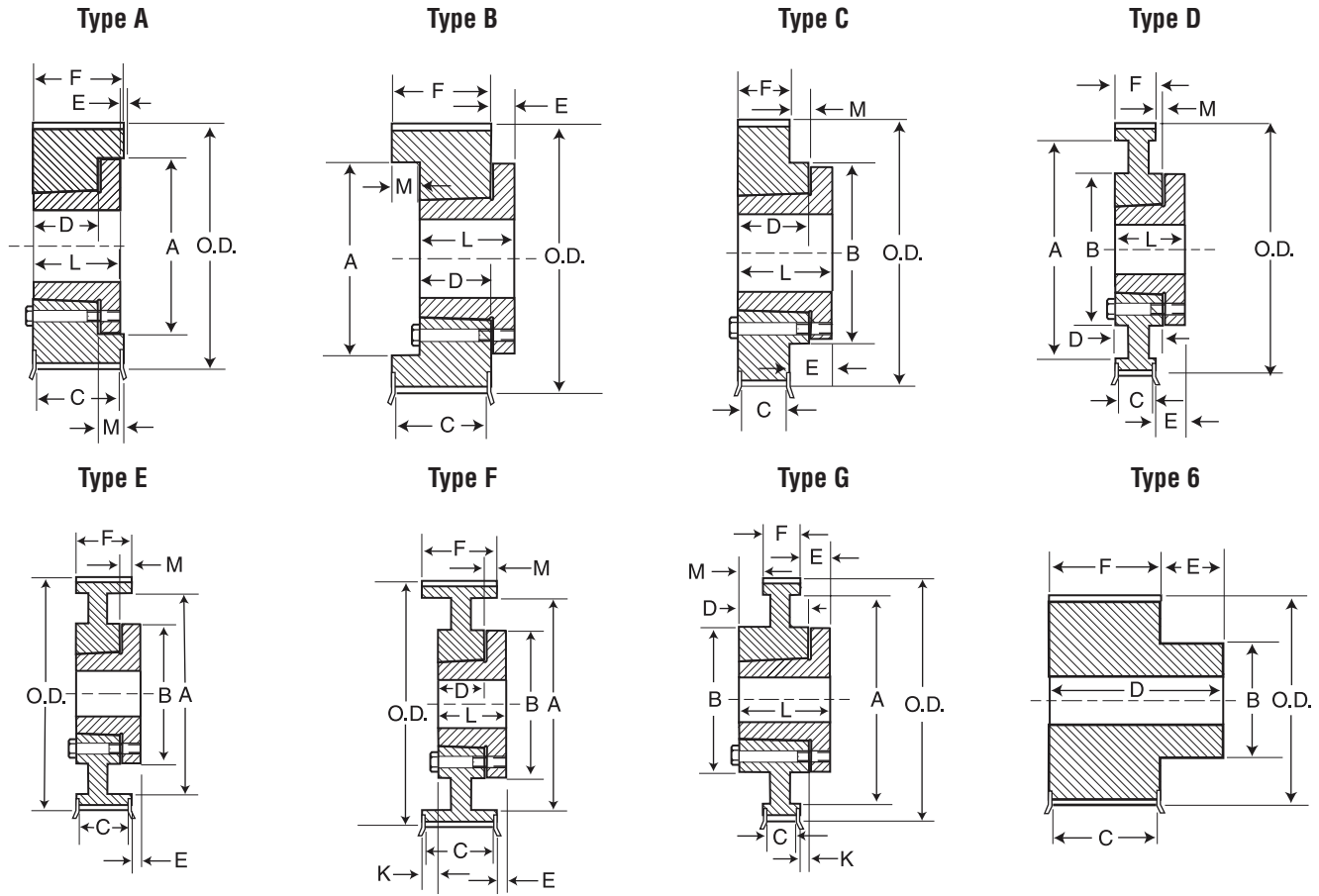


8mm Pitch — 62mm Wide Belt

No. of Teeth	Catalog Number	Bore	Pitch Diameter	Diameter		Type	Max Bore	Dimensions							Weight Approx. (lbs.)	
				O.D.	Max Flange O.D.			A	B	C	D	E	F	M		F-CL
MPB 8mm Pitch, 62 mm (2.44 in.) Wide Belts (8M - 62)																
22	PB8MX22S62	MPB	2.206	2.143	2.61	6F-1	1.188	-	1.79	2.63	3.56	0.68	2.88	-	1.46	2.4
25	PB8MX25S62	MPB	2.506	2.443	2.91	6F-1	1.5	-	2.08	2.63	3.56	0.68	2.88	-	1.46	3.6
28	PB8MX28S62	MPB	2.807	2.744	3.21	6F-1	1.75	-	2.34	2.63	3.56	0.68	2.88	-	1.46	4.6
30	PB8MX30S62	MPB	3.008	2.945	3.41	6F-1	1.813	-	2.54	2.63	3.5	0.62	2.88	-	1.46	5.3
32	PB8MX32S62	MPB	3.208	3.145	3.61	6F-1	2	-	2.73	2.63	3.5	0.62	2.88	-	1.46	5.6
34	PB8MX34S62	MPB	3.409	3.346	3.81	6F-1	2.125	-	2.82	2.63	3.5	0.62	2.88	-	1.46	5.7
36	PB8MX36S62	MPB	3.609	3.546	4.01	6F-1	2.313	-	3.13	2.63	3.56	0.68	2.88	-	1.46	8.0
38	PB8MX38S62	MPB	3.812	3.747	4.21	6F-1	2.438	-	3.32	2.63	3.56	0.68	2.88	-	1.46	9.1
40	PB8MX40S62	MPB	4.010	3.947	4.41	6F-1	2.563	-	3.52	2.63	3.63	0.75	2.88	-	1.46	10.3
42	PB8MX42S62	MPB	4.211	4.148	4.91	6F-1	2.75	-	3.79	2.63	3.63	0.75	2.88	-	1.46	11.6
45	PB8MX45S62	MPB	4.511	4.448	4.91	6F-1	2.75	-	3.79	2.63	3.63	0.75	2.88	-	1.46	13.1
Taper Bushed 8mm Pitch, 62mm (2.44 in.) Wide Belts (8M - 62)																
34	8MX34S62-1610	1610	3.409	3.346	3.81	AF-1	1.625	2.66	-	2.63	1	-	2.88	-	1.46	5.0
36	8MX36S62-1610	1610	3.609	3.546	4.01	AF-1	1.625	2.96	-	2.63	1	-	2.88	-	1.46	5.3
38	8MX38S62-1610	1610	3.812	3.747	4.21	AF-1	1.625	3.15	-	2.63	1	-	2.88	-	1.46	5.6
40	8MX40S62-2012	2012	4.010	3.947	4.41	AF-1	2	3.35	-	2.63	1.25	-	2.88	-	1.46	5.9
42	8MX42S62-2012	2012	4.211	4.148	4.91	AF-1	2	3.62	-	2.63	1.25	-	2.88	-	1.46	3.5
45	8MX45S62-2012	2012	4.511	4.448	4.91	AF-1	2	3.62	-	2.63	1.25	-	2.88	-	1.46	6.5
48	8MX48S62-2517	2517	4.812	4.749	5.21	AF-1	2.5	4.14	-	2.63	1.75	-	2.88	-	1.46	6.6
50	8MX50S62-2517	2517	5.013	4.95	5.41	AF-1	2.5	4.13	-	2.63	1.75	-	2.88	-	1.46	6.7
53	8MX53S62-2517	2517	5.314	5.251	5.5	AF-1	2.5	4.76	-	2.63	1.75	-	2.88	-	1.46	6.9
56	8MX56S62-2517	2517	5.614	5.551	6.01	AF-1	2.5	4.92	-	2.63	1.75	-	2.88	-	1.46	7.2
60	8MX60S62-3020	3020	6.015	5.952	6.42	AF-1	3	5.13	-	2.63	2	-	2.88	-	1.46	8.9
63	8MX63S62-3020	3020	6.316	6.253	6.72	AF-1	3	5.71	-	2.63	2	-	2.88	-	1.46	10.3
67	8MX67S62-3020	3020	6.717	6.654	6.88	AF-1	3	6.14	-	2.63	2	-	2.88	-	1.46	11.0
71	8MX71S62-3020	3020	7.118	7.055	7.5	AF-1	3	6.51	-	2.63	2	-	2.88	-	1.46	13.5
75	8MX75S62-3020	3020	7.519	7.456	7.92	AF-1	3	6.90	-	2.63	2	-	2.88	-	1.46	15.4
80	8MX80S62-3020	3020	8.020	7.957	8.42	AF-1	3	7.23	-	2.63	2	-	2.88	-	1.46	23.0
90	8MX90S62-3020	3020	9.023	8.96	-	D-1	3	7.39	5.42	-	2	-	2.88	0.91	1.46	32.7
112	8MX112S62-3020	3020	11.229	11.166	-	D-2	3	9.60	5.42	-	2	-	2.88	0.91	1.46	38.9
140	8MX140S62-3525	3525	14.036	13.973	-	D-2	3.5	12.40	8.75	-	2.5	-	2.88	0.41	1.46	54.5
180	8MX180S62-3525	3525	18.046	17.983	-	D-3	3.5	15.33	8.75	-	2.5	-	2.88	0.41	1.46	90.0
224	8MX224S62-3525	3525	22.457	22.394	-	D-3	3.5	19.38	8.75	-	2.5	-	2.88	0.41	1.46	92.3

Type: 1- Solid 2- Web 3- Arms F=Flanged
 NOTE: Weights for Minimum Plain Bore (MPB) Sprockets are with minimum bore.
 Weights for Bushed Sprockets less bushing.
 Dimensions in Inches. Weight in pounds.

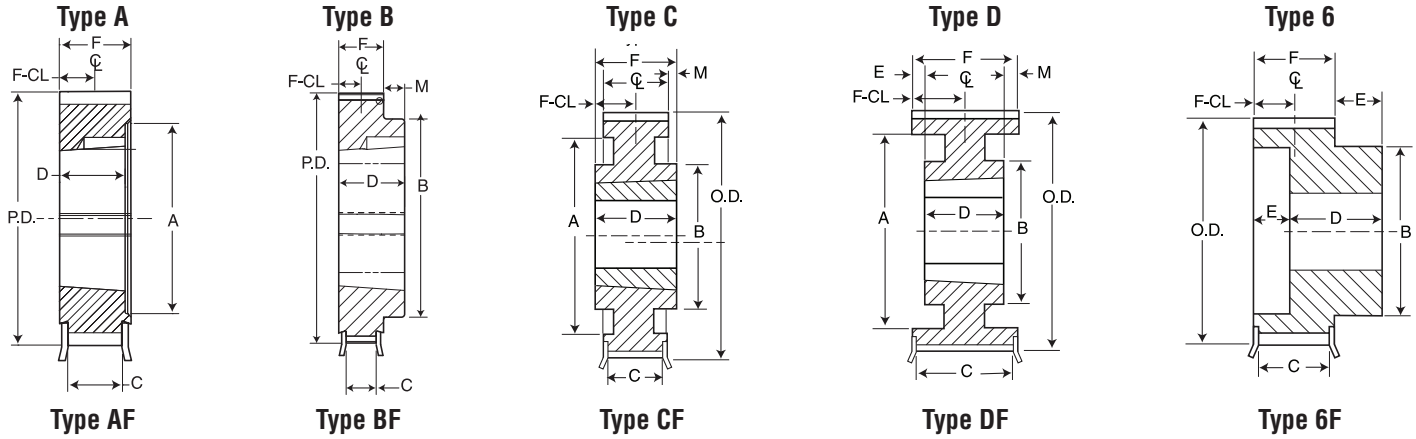
MPC® Sprockets 8mm Air Cool Heat Exchange



8mm Pitch — 21mm Wide Air Cool Heat Exchange Belt

No. of Teeth	Catalog Number	Bore	Pitch Diameter	Diameter		Type	Max Bore	Dimensions								Weight Approx. (lbs.)	
				O.D.	Max Flange O.D.			A	B	C	D	E	F	L	M		F-CL
QD Bushed 8mm Pitch, 21mm (0.93 in.) Wide Belt (8M-21)																	
36	F8MX36S21-SH	SH	3.609	3.546	4.009	AF-1	1.688	2.85	-	0.92	0.81	0.39	1.2	1.94	0.39	0.6	2.1
38	F8MX38S21-SH	SH	3.81	3.747	4.21	AF-1	1.688	3.04	-	0.92	-	0.39	1.2	1.94	0.39	0.6	2.1
40	F8MX40S21-SH	SH	4.01	3.947	4.41	AF-1	1.688	3.24	-	0.92	-	0.39	1.2	1.94	0.39	0.6	2.3
42	F8MX42S21-SH	SH	4.211	4.148	4.911	AF-1	1.688	3.44	-	0.92	-	0.39	1.2	1.94	0.39	0.6	2.5
140	F8MX140S21-SF	SF	14.036	13.973	-	C-2	2.938	13.17	6.38	-	1.25	0.39	1.2	2.06	0.05	0.6	25.0
168	F8MX168S21-SF	SF	16.843	16.78	-	C-3	2.938	15.95	6.38	-	1.25	0.39	1.2	2.06	0.05	0.6	33.8
180	F8MX180S21-SF	SF	18.046	17.983	-	C-3	2.938	17.14	6.38	-	1.25	0.39	1.2	2.06	0.03	0.6	36.6
224	F8MX224S21-E	E	22.457	22.394	-	C-3	3.5	21.51	7.50	-	1.25	0.39	1.2	2.75	0.43	0.6	50.1

Type: 1- Solid 2 - Web 3 - Arms F=Flanged
 NOTE: Weights for Minimum Plain Bore (MPB) Sprockets are with minimum bore.
 Weights for Bushed Sprockets less bushing.
 Dimensions in Inches. Weight in pounds.



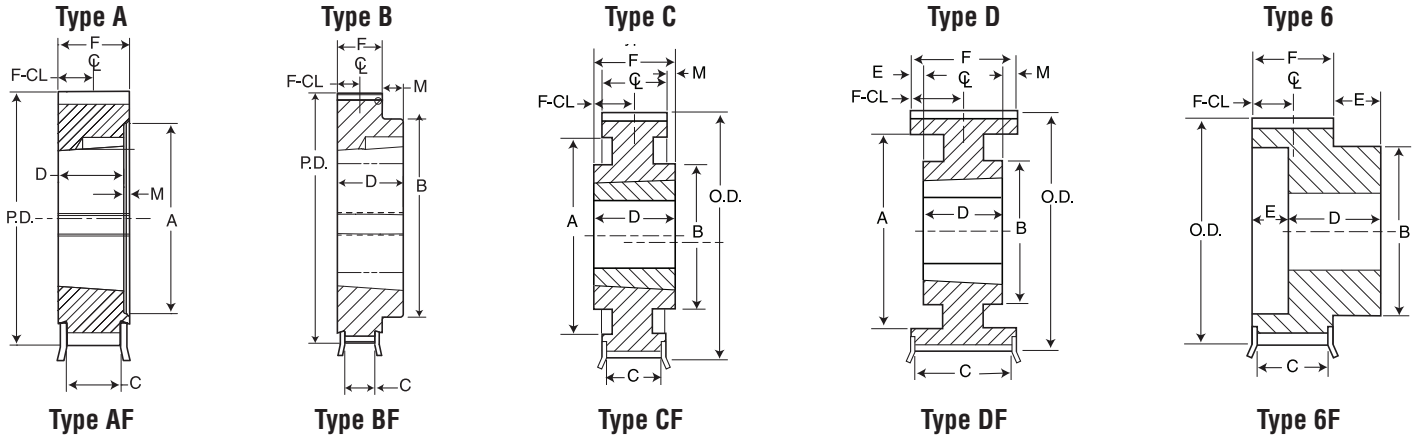
14mm Pitch — 20mm Wide Belt

No. of Teeth	Catalog Number	Bore	Pitch Diameter	Diameter		Type	Max Bore	Dimensions							Weight Approx. (lbs.)	
				O.D.	Max Flange O.D.			A	B	C	D	E	F	M		F-CL
Tapered Bushed 14mm Pitch, 20mm (.826 in.) Wide Belt (14M-20)																
28	14MX28S20-2012	2012	4.912	4.802	5.4	A1-F	2	3.61	-	1.04	1.25	-	1.36	.11	0.68	3.9
29	14MX29S20-2012	2012	5.188	4.978	5.76	A1-F	2	3.99	-	1.04	1.25	-	1.36	.11	0.68	4.5
30	14MX30S20-2012	2012	5.263	5.153	5.76	A1-F	2	3.99	-	1.04	1.25	-	1.36	.11	0.68	4.8
31	14MX31S20-2012	2012	5.439	5.329	6.11	A1-F	2	4.22	-	1.04	1.25	-	1.36	.11	0.68	5.5
32	14MX32S20-2012	2012	5.614	5.504	6.11	A1-F	2	4.22	-	1.04	1.25	-	1.36	.11	0.68	5.9
33	14MX33S20-2012	2012	5.790	5.680	6.46	A1-F	2	4.53	-	1.04	1.25	-	1.36	.11	0.68	6.3
34	14MX34S20-2012	2012	5.965	5.855	6.46	A1-F	2	4.53	-	1.04	1.25	-	1.36	.11	0.68	6.9
35	14MX35S20-2012	2012	6.141	6.031	6.82	A1-F	2	4.95	-	1.04	1.25	-	1.36	.11	0.68	7.3
36	14MX36S20-2517	2517	6.316	6.206	6.82	BF-1	2.5	-	4.25	1.04	1.75	-	1.36	.39	0.68	7.6
37	14MX37S20-2517	2517	6.492	6.382	7.17	BF-1	2.5	-	4.25	1.04	1.75	-	1.36	.39	0.68	8.2
38	14MX38S20-2517	2517	6.667	6.557	7.17	BF-1	2.5	-	4.25	1.04	1.75	-	1.36	.39	0.68	8.9
39	14MX39S20-2517	2517	6.842	6.732	7.52	BF-1	2.5	-	4.25	1.04	1.75	-	1.36	.39	0.68	9.8
40	14MX40S20-2517	2517	7.018	6.908	7.52	BF-1	2.5	-	4.25	1.04	1.75	-	1.36	.39	0.68	10.1
43	14MX43S20-2517	2517	7.544	7.434	8.04	BF-1	2.5	-	4.25	1.04	1.75	-	1.36	.39	0.68	11.7
45	14MX45S20-3020	3020	7.895	7.785	8.4	BF-1	3	-	5.41	1.04	2	-	1.36	.64	0.68	13.5
48	14MX48S20-3020	3020	8.421	8.311	8.94	BF-1	3	-	5.75	1.04	2	-	1.36	.64	0.68	16.4
50	14MX50S20-3020	3020	8.772	8.662	9.29	BF-1	3	-	5.75	1.04	2	-	1.36	.64	0.68	18.3
53	14MX53S20-3020	3020	9.299	9.189	9.69	BF-1	3	-	5.75	1.04	2	-	1.36	.64	0.68	20.5
56	14MX56S20-3525	3525	9.825	9.715	10.36	BF-1	3.5	-	8.7	1.04	2.5	-	1.36	1.14	0.68	23.2
60	14MX60S20-3525	3525	10.527	10.417	11.07	BF-1	3.5	-	8.75	1.04	2.5	-	1.36	1.14	0.68	27.5
63	14MX63S20-3525	3525	11.053	10.943	11.59	BF-1	3.5	-	8.75	1.04	2.5	-	1.36	1.14	0.68	30.2
67	14MX67S20-3525	3525	11.755	11.645	12.5	BF-1	3.5	-	8.75	1.04	2.5	-	1.36	1.14	0.68	31.3
71	14MX71S20-3525	3525	12.457	12.347	13.07	CF-1	3.5	11.05	8.75	1.04	2.5	-	1.36	1.14	0.68	32.5
75	14MX75S20-3525	3525	13.158	13.048	13.73	CF-1	3.5	11.68	8.75	1.04	2.5	-	1.36	1.14	0.68	36.2
80	14MX80S20-3525	3525	14.036	13.926	14.62	CF-2	3.5	12.56	8.75	1.04	2.5	-	1.36	1.14	0.68	35.4
90	14MX90S20-3525	3525	15.790	15.680	-	C-2	3.5	14.26	8.75	-	2.5	-	1.36	1.14	0.68	41.3
112	14MX112S20-3525	3525	19.650	19.540	-	C-3	3.5	16.47	8.75	-	2.5	-	1.36	1.14	0.68	59.6
140	14MX140S20-3525	3525	24.562	24.452	-	C-3	3.5	21.04	8.75	-	2.5	-	1.36	1.14	0.68	102.0
168	14MX168S20-3525	3525	29.475	29.365	-	C-3	3.5	25.90	8.75	-	2.5	-	1.36	1.14	0.68	99.5
180	14MX180S20-3525	3525	31.580	31.47	-	C-3	3.5	27.99	8.75	-	2.5	-	1.36	1.14	0.68	135.0
200	14MX200S20-3525	3525	35.089	24.979	-	C-3	3.5	31.46	8.75	-	2.5	-	1.36	1.14	0.68	156.0
224	14MX224S20-4030	4030	39.300	39.190	-	C-3	4	35.63	10	-	3	-	1.36	1.64	0.68	150.2

Type: 1- Solid 2 - Web 3 - Arms F=Flanged
 NOTE: Weights for Minimum Plain Bore (MPB) Sprockets are with minimum bore.
 Weights for Bushed Sprockets less bushing.
 Dimensions in Inches. Weight in pounds.

MPC® Sprockets

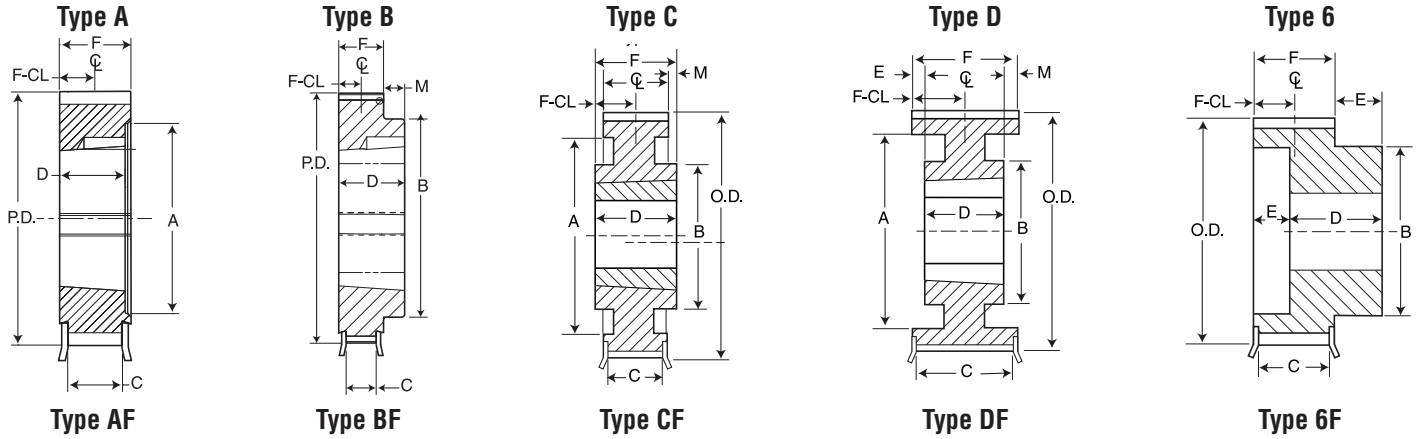
14mm



14mm Pitch — 37mm Wide Belt

No. of Teeth	Catalog Number	Bore	Pitch Diameter	Diameter		Type	Max Bore	Dimensions								Weight Approx. (lbs.)
				O.D.	Max Flange O.D.			A	B	C	D	E	F	M	F-CL	
MPB 14mm Pitch, 37mm (1.46 in.) Wide Belt (14M-37)																
28	PB14MX28S37	MPB	4.912	4.802	5.4	6F-1	2.938	-	3.97	1.74	2.86	0.8	2.06	-	1.03	11.7
Taper Bushed 14mm Pitch, 37mm (1.46 in.) Wide Belt (14M-37)																
28	14MX28S37-2012	2012	4.912	4.802	5.4	AF-1	2	3.61	-	1.74	1.25	-	2.06	0.81	1.03	4.2
29	14MX29S37-2517	2517	5.088	4.978	5.76	AF-1	2.5	3.99	-	1.74	1.75	-	2.06	0.31	1.03	4.7
30	14MX30S37-2517	2517	5.263	5.153	5.76	AF-1	2.5	3.99	-	1.74	1.75	-	2.06	0.31	1.03	5.0
31	14MX31S37-2517	2517	5.439	5.329	6.11	AF-1	2.5	4.22	-	1.74	1.75	-	2.06	0.31	1.03	6.0
32	14MX32S37-2517	2517	5.614	5.54	6.11	AF-1	2.5	4.22	-	1.74	1.75	-	2.06	0.31	1.03	7.2
33	14MX33S37-2517	2517	5.79	5.68	6.46	AF-1	2.5	4.53	-	1.74	1.75	-	2.06	0.31	1.03	7.5
34	14MX34S37-2517	2517	5.965	5.855	6.46	AF-1	2.5	4.53	-	1.74	1.75	-	2.06	0.31	1.03	7.8
35	14MX35S37-2517	2517	6.141	6.031	6.82	AF-1	2.5	4.95	-	1.74	1.75	-	2.06	0.31	1.03	8.3
36	14MX36S37-2517	2517	6.316	6.206	6.82	AF-1	2.5	4.95	-	1.74	1.75	-	2.06	0.31	1.03	8.8
37	14MX37S37-2517	2517	6.492	6.382	7.17	AF-1	2.5	5.27	-	1.74	1.75	-	2.06	0.31	1.03	9.3
38	14MX38S37-3020	3020	6.667	6.557	7.17	AF-1	3	5.27	-	1.74	2	-	2.06	0.06	1.03	10.8
39	14MX39S37-3020	3020	6.842	6.732	7.52	AF-1	3	5.54	-	1.74	2	-	2.06	0.06	1.03	11.9
40	14MX40S37-3020	3020	7.018	6.908	7.52	AF-1	3	5.54	-	1.74	2	-	2.06	0.06	1.03	12.2
43	14MX43S37-3020	3020	7.544	7.434	8.04	AF-1	3	6.16	-	1.74	2	-	2.06	0.06	1.03	12.5
45	14MX45S37-3020	3020	7.895	7.785	8.4	AF-1	3	6.42	-	1.74	2	-	2.06	0.06	1.03	15.8
48	14MX48S37-3020	3020	8.421	8.311	8.94	AF-1	3	6.96	-	1.74	2	-	2.06	0.06	1.03	18.7
50	14MX50S37-3020	3020	8.772	8.662	9.29	AF-1	3	7.44	-	1.74	2	-	2.06	0.06	1.03	21.1
53	14MX53S37-3020	3020	9.299	9.189	9.69	AF-1	3	7.84	-	1.74	2	-	2.06	0.06	1.03	24.7
56	14MX56S37-3525	3525	9.825	9.715	10.36	BF-1	3.5	-	8.70	1.74	2.5	-	2.06	0.44	1.03	28.2
60	14MX60S37-3525	3525	10.527	10.417	11.07	BF-1	3.5	-	8.75	1.74	2.5	-	2.06	0.44	1.03	32.2
63	14MX63S37-3525	3525	11.053	10.943	11.59	BF-1	3.5	-	8.75	1.74	2.5	-	2.06	0.44	1.03	42.8
67	14MX67S37-3525	3525	11.755	11.645	12.5	BF-1	3.5	-	8.75	1.74	2.5	-	2.06	0.44	1.03	43.5
71	14MX71S37-3525	3525	12.457	12.347	13.07	BF-1	3.5	-	8.75	1.74	2.5	-	2.06	0.44	1.03	44.1
75	14MX75S37-3525	3525	13.158	13.048	13.73	CF-1	3.5	11.68	8.75	1.74	2.5	-	2.06	0.44	1.03	45.5
80	14MX80S37-3525	3525	14.036	13.926	14.62	CF-2	3.5	12.56	8.75	1.74	2.5	-	2.06	0.44	1.03	48.7
90	14MX90S37-3525	3525	15.79	15.68	-	C-2	3.5	14.26	8.75	-	2.5	-	2.06	0.44	1.03	53.3
112	14MX112S37-3525	3525	19.65	19.54	-	C-3	3.5	16.39	8.75	-	2.5	-	2.06	0.44	1.03	87.0
126	14MX126S37-3525	3525	22.106	21.996	-	C-3	3.5	20.56	8.75	-	2.5	-	2.06	0.44	1.03	76.3
180	14MX180S37-4030	4030	31.58	31.47	-	C-3	4	27.59	10	-	3	-	2.06	0.94	1.03	191.4
200	14MX200S37-4030	4030	35.089	34.979	-	C-3	4	31.07	10	-	3	-	2.06	0.94	1.03	224.8
224	14MX224S37-4030	4030	39.30	39.19	-	C-3	4	35.24	10	-	3	-	2.06	0.94	1.03	267.7

Type: 1- Solid 2 - Web 3 - Arms F=Flanged
 NOTE: Weights for Minimum Plain Bore (MPB) Sprockets are with minimum bore.
 Weights for Bushed Sprockets less bushing.
 Dimensions in Inches. Weight in pounds.



14mm Pitch — 68mm Wide Belt

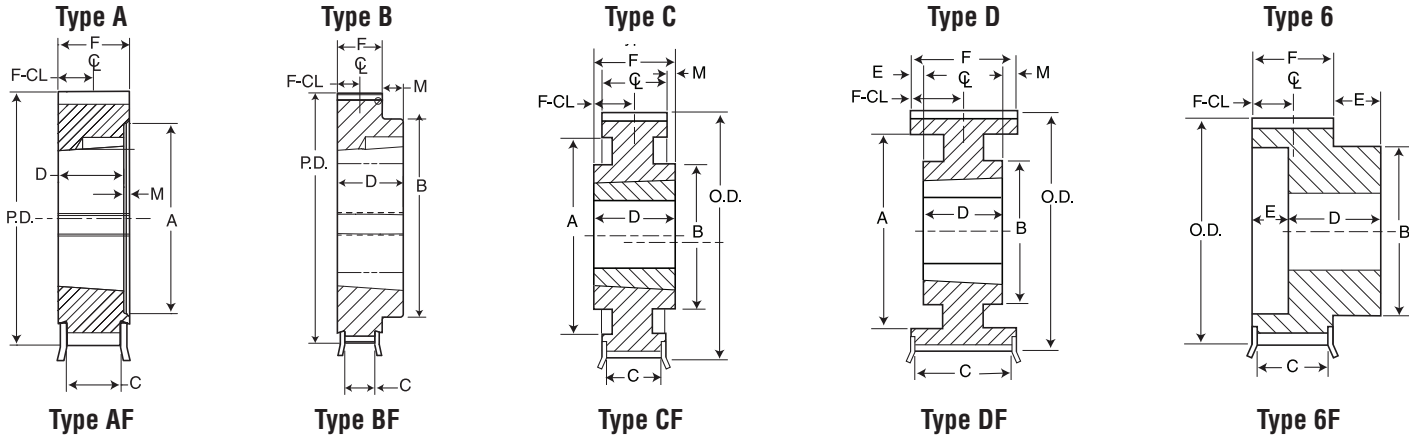
No. of Teeth	Catalog Number	Bore	Pitch Diameter	Diameter		Type	Max Bore	Dimensions							Weight Approx. (lbs.)	
				O.D.	Max Flange O.D.			A	B	C	D	E	F	M		F-CL
MPB 14mm Pitch, 68mm (2.68 in.) Wide Belt (14M-68)																
28	PB14MX28S68	MPB	4.912	4.802	5.4	6F-1	2.938	-	3.97	3.01	4.13	0.81	3.322	-	1.66	17.0
29	PB14MX29S68	MPB	5.088	4.978	5.76	6F-1	3.188	-	4.35	3.01	4.13	0.81	3.322	-	1.66	19.0
30	PB14MX30S68	MPB	5.263	5.153	5.76	6F-1	3.188	-	4.35	3.01	4.13	0.81	3.322	-	1.66	20.0
31	PB14MX31S68	MPB	5.439	5.329	6.11	6F-1	3.438	-	4.57	3.01	4.13	0.81	3.322	-	1.66	16.8
32	PB14MX32S68	MPB	5.614	5.504	6.11	6F-1	3.438	-	4.57	3.01	4.13	0.81	3.322	-	1.66	18.0
33	PB14MX33S68	MPB	5.79	5.68	6.47	6F-1	3.5	-	4.89	3.01	4.33	1.01	3.322	-	1.66	26.0
34	PB14MX34S68	MPB	5.965	5.855	6.47	6F-1	3.5	-	4.89	3.01	4.33	1.01	3.322	-	1.66	21.1
Taper Bushed 14mm Pitch, 68mm (2.68 in.) Wide Belt (14M-68)																
29	14MX29S68-2517	2517	5.088	4.978	5.76	AF-1	2.5	3.99	-	3.01	1.75	-	3.322	-	1.66	14.7
30	14MX30S68-2517	2517	5.263	5.153	5.76	AF-1	2.5	3.99	-	3.01	1.75	-	3.322	-	1.66	14.0
31	14MX31S68-2517	2517	5.439	5.329	6.11	AF-1	2.5	4.22	-	3.01	1.75	-	3.322	-	1.66	14.3
32	14MX32S68-2517	2517	5.614	5.504	6.11	AF-1	2.5	4.22	-	3.01	1.75	-	3.322	-	1.66	14.6
33	14MX33S68-2517	2517	5.79	5.68	6.46	AF-1	2.5	4.53	-	3.01	1.75	-	3.322	-	1.66	14.9
34	14MX34S68-2517	2517	5.965	5.855	6.46	AF-1	2.5	4.53	-	3.01	1.75	-	3.322	-	1.66	15.2
35	14MX35S68-3020	3020	6.141	6.031	6.82	AF-1	3	4.95	-	3.01	2	-	3.322	-	1.66	15.5
36	14MX36S68-3020	3020	6.316	6.206	6.82	AF-1	3	4.95	-	3.01	2	-	3.322	-	1.66	15.8
37	14MX37S68-3020	3020	6.492	6.382	7.17	AF-1	3	5.27	-	3.01	2	-	3.322	-	1.66	16.1
38	14MX38S68-3020	3020	6.667	6.557	7.17	AF-1	3	5.27	-	3.01	2	-	3.322	-	1.66	16.4
39	14MX39S68-3020	3020	6.842	6.732	7.52	AF-1	3	5.54	-	3.01	2	-	3.322	-	1.66	16.7
40	14MX40S68-3020	3020	7.018	6.908	7.52	AF-1	3	5.54	-	3.01	2	-	3.322	-	1.66	17.0
43	14MX43S68-3020	3020	7.544	7.434	8.04	AF-1	3	6.16	-	3.01	2	-	3.322	-	1.66	17.2
45	14MX45S68-3020	3020	7.895	7.785	8.39	AF-1	3	6.42	-	3.01	2	-	3.322	-	1.66	20.4
48	14MX48S68-3525	3525	8.421	8.311	8.94	AF-1	3.5	6.96	-	3.01	2.5	-	3.322	-	1.66	24.6
50	14MX50S68-3525	3525	8.772	8.662	9.29	AF-1	3.5	7.44	-	3.01	2.5	-	3.322	-	1.66	29.4
53	14MX53S68-3525	3525	9.299	9.189	9.69	AF-1	3.5	7.84	-	3.01	2.5	-	3.322	-	1.66	35.7
56	14MX56S68-3525	3525	9.825	9.715	10.36	AF-1	3.5	8.35	-	3.01	2.5	-	3.322	-	1.66	39.9
60	14MX60S68-3525	3525	10.527	10.417	11.07	AF-1	3.5	9.06	-	3.01	2.5	-	3.322	-	1.66	50.6
63	14MX63S68-3525	3525	11.053	10.943	11.59	AF-1	3.5	9.59	-	3.01	2.5	-	3.322	-	1.66	58.0
67	14MX67S68-3525	3525	11.755	11.645	12.5	DF-1	3.5	10.36	8.75	3.01	2.5	-	3.322	0.82	1.66	60.0
71	14MX71S68-3525	3525	12.457	12.347	13.07	DF-1	3.5	11.05	8.75	3.01	2.5	-	3.322	0.82	1.66	63.3
75	14MX75S68-3525	3525	13.158	13.048	13.73	DF-1	3.5	11.68	8.75	3.01	2.5	-	3.322	0.82	1.66	68.6
80	14MX80S68-3525	3525	14.036	13.926	14.62	DF-2	3.5	12.56	8.75	3.01	2.5	-	3.322	0.82	1.66	76.3
90	14MX90S68-4030	4030	15.79	15.68	-	D-2	4	14.26	10	-	3	-	3.322	0.32	1.66	82.6
112	14MX112S68-4030	4030	19.65	19.54	-	D-3	4	16.35	10	-	3	-	3.322	0.32	1.66	100.4
140	14MX140S68-4030	4030	24.562	24.452	-	D-3	4.5	20.78	10	-	3	-	3.322	0.32	1.66	190.0
168	14MX168S68-4535	4535	29.475	29.365	-	C-3	4.5	25.23	10.5	-	3.5	-	3.322	0.18	1.66	239.1
180	14MX180S68-4353	4535	31.58	31.47	-	C-3	4.5	27.16	10.5	-	3.5	-	3.322	0.18	1.66	250.6
200	14MX200S68-4535	4535	35.089	34.979	-	C-3	4.5	30.65	10.5	-	3.5	-	3.322	0.18	1.66	262.5
224	14MX224S68-5040	5040	39.3	39.19	-	C-3	5	34.82	11	-	4	-	3.322	0.68	1.66	350.0

-Type: 1- Solid 2- Web 3- Arms F=Flanged

-NOTE: Weights for Minimum Plain Bore (MPB) Sprockets are with minimum bore. Weights for Bushed Sprockets less bushing. Dimensions in Inches. Weight in pounds.

MPC® Sprockets

14mm

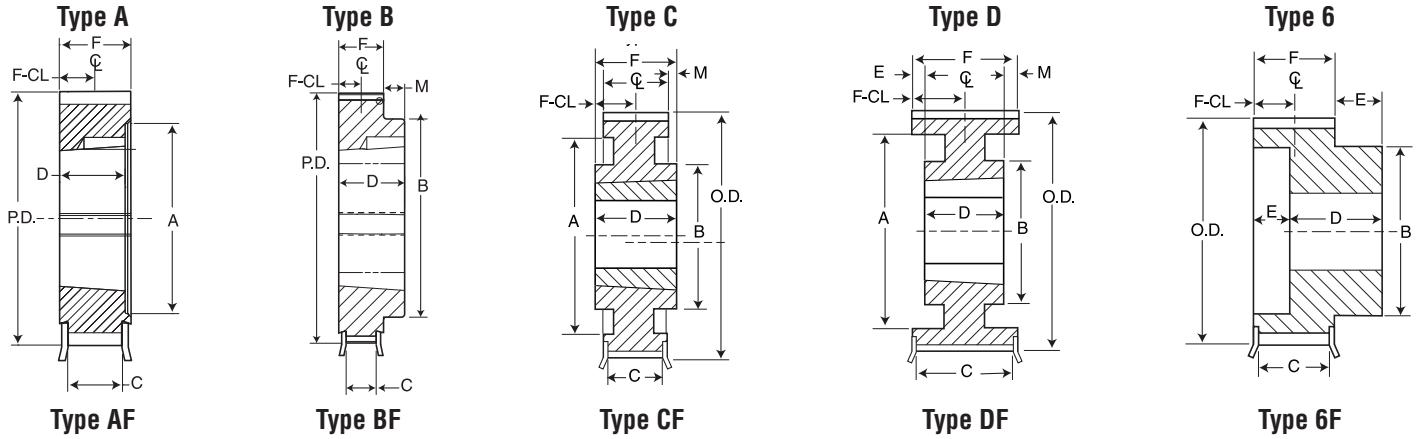


14mm Pitch — 90mm Wide Belt

No. of Teeth	Catalog Number	Bore	Pitch Diameter	Diameter		Type	Max Bore	Dimensions								Weight Approx. (lbs.)
				O.D.	Max Flange O.D.			A	B	C	D	E	F	M	F-CL	
MPB 14mm Pitch, 90mm (3.54 in.) Wide Belt (14M-90)																
28	PB14MX28S90	MPB	4.912	4.802	5.4	6F-1	2.938	-	3.97	3.88	5.14	0.95	4.192	-	2.1	20.0
29	PB14MX29S90	MPB	5.088	4.978	5.76	6F-1	3.188	-	4.35	3.88	5	0.81	4.192	-	2.1	22.1
30	PB14MX30S90	MPB	5.263	5.153	5.76	6F-1	3.188	-	4.35	3.88	5	0.81	4.192	-	2.1	24.0
31	PB14MX31S90	MPB	5.439	5.329	6.11	6F-1	3.438	-	4.57	3.88	5	0.81	4.192	-	2.1	21.8
32	PB14MX32S90	MPB	5.614	5.504	6.11	6F-1	3.438	-	4.57	3.88	5	0.81	4.192	-	2.1	27.0
33	PB14MX33S90	MPB	5.79	5.68	6.47	6F-1	3.5	-	4.89	3.88	5.2	1.01	4.192	-	2.1	30.0
34	PB14MX34S90	MPB	5.965	5.855	6.47	6F-1	3.5	-	4.89	3.88	5.2	1.01	4.192	-	2.1	27.2
35	PB14MX35S90	MPB	6.141	6.031	6.82	6F-1	3.813	-	5.30	3.88	5.2	1.01	4.192	-	2.1	28.7
36	PB14MX36S90	MPB	6.316	6.26	6.82	6F-1	3.813	-	5.30	3.88	5.2	1.01	4.192	-	2.1	30.3
37	PB14MX37S90	MPB	6.492	6.382	7.17	6F-1	4.125	-	5.63	3.88	5.2	1.01	4.192	-	2.1	32.1
38	PB14MX38S90	MPB	6.667	6.557	7.17	6F-1	4.125	-	5.63	3.88	5.2	1.01	4.192	-	2.1	33.9
39	PB14MX39S90	MPB	6.842	6.732	7.5	6F-1	4.375	-	5.89	3.88	5.2	1.01	4.192	-	2.1	35.8
40	PB14MX40S90	MPB	7.018	6.908	7.52	6F-1	4.375	-	5.89	3.88	5.2	1.01	4.192	-	2.1	37.7
Taper Bushed 14mm Pitch, 90mm (3.54 in.) Wide Belt (14M-90)																
35	14MX35S90-3020	3020	6.141	6.031	6.82	AF-1	3	4.95	-	3.88	2	-	4.192	2.19	2.1	22.9
36	14MX36S90-3020	3020	6.316	6.26	6.82	AF-1	3	4.95	-	3.88	2	-	4.192	2.19	2.1	23.1
37	14MX37S90-3020	3020	6.492	6.382	7.17	AF-1	3	5.27	-	3.88	2	-	4.192	2.19	2.1	23.4
38	14MX38S90-3020	3020	6.667	6.557	7.17	AF-1	3	5.27	-	3.88	2	-	4.192	2.19	2.1	23.7
39	14MX39S90-3020	3020	6.842	6.732	7.52	AF-1	3	5.54	-	3.88	2	-	4.192	2.19	2.1	24.0
40	14MX40S90-3020	3020	7.018	6.908	7.52	AF-1	3	5.54	-	3.88	2	-	4.192	2.19	2.1	24.3
43	14MX43S90-3525	3525	7.544	7.434	8.04	AF-1	3.5	6.16	-	3.88	2.5	-	4.192	1.69	2.1	24.7
45	14MX45S90-3525	3525	7.895	7.785	8.39	AF-1	3.5	6.42	-	3.88	2.5	-	4.192	1.69	2.1	27.3
48	14MX48S90-3525	3525	8.421	8.311	8.94	AF-1	3.5	6.96	-	3.88	2.5	-	4.192	1.69	2.1	33.4
50	14MX50S90-3525	3525	8.772	8.662	9.29	AF-1	3.5	7.44	-	3.88	2.5	-	4.192	1.69	2.1	29.3
53	14MX53S90-3525	3525	9.299	9.189	9.69	AF-1	3.5	7.83	-	3.88	2.5	-	4.192	1.69	2.1	46.8
56	14MX56S90-4030	4030	9.825	9.715	10.36	AF-1	4	8.35	-	3.88	3	-	4.192	1.69	2.1	42.1
60	14MX60S90-4030	4030	10.527	10.417	11.07	AF-1	4	9.06	-	3.88	3	-	4.192	1.69	2.1	50.5
63	14MX63S90-4030	4030	11.053	10.943	11.59	AF-1	4	9.59	-	3.88	3	-	4.192	1.69	2.1	64.6
67	14MX67S90-4030	4030	11.755	11.645	12.5	AF-1	4	9.88	-	3.88	3	-	4.192	1.69	2.1	70.0
71	14MX71S90-4030	4030	12.457	12.347	13.07	AF-1	4	10.67	-	3.88	3	-	4.192	1.69	2.1	86.7
75	14MX75S90-4030	4030	13.158	13.048	13.73	AF-1	4	11.63	-	3.88	3	-	4.192	1.69	2.1	85.0
80	14MX80S90-4030	4030	14.036	13.926	14.62	DF-1	4	12.56	10	3.88	3	-	4.192	1.69	2.1	88.0
90	14MX90S90-4030	4030	15.79	15.68	-	D-2	4	14.26	10	-	3	-	4.192	1.69	2.1	89.0
112	14MX112S90-4535	4535	19.65	19.54	-	D-2	4.5	16.35	10.5	-	3.5	-	4.192	0.69	2.1	197.9
140	14MX140S90-5040	5040	24.562	24.452	-	D-3	5	20.74	11	-	4	-	4.192	0.19	2.1	240.0
168	14MX168S90-6050	6050	29.475	29.365	-	C-3	6	25.11	15.5	-	5	-	4.192	0.81	2.1	327.3
180	14MX180S90-6050	6050	31.58	31.47	-	C-3	6	27.06	15.5	-	5	-	4.192	0.81	2.1	335.9
200	14MX200S90-6050	6050	35.089	34.979	-	C-3	6	30.29	15.5	-	5	-	4.192	0.81	2.1	344.5
224	14MX224S90-6050	6050	39.3	39.19	-	C-3	6	34.46	15.5	-	5	-	4.192	0.81	2.1	589.0

Type: 1- Solid 2- Web 3- Arms F=Flanged

NOTE: Weights for Minimum Plain Bore (MPB) Sprockets are with minimum bore. Weights for Bushed Sprockets less bushing. Dimensions in Inches. Weight in pounds.

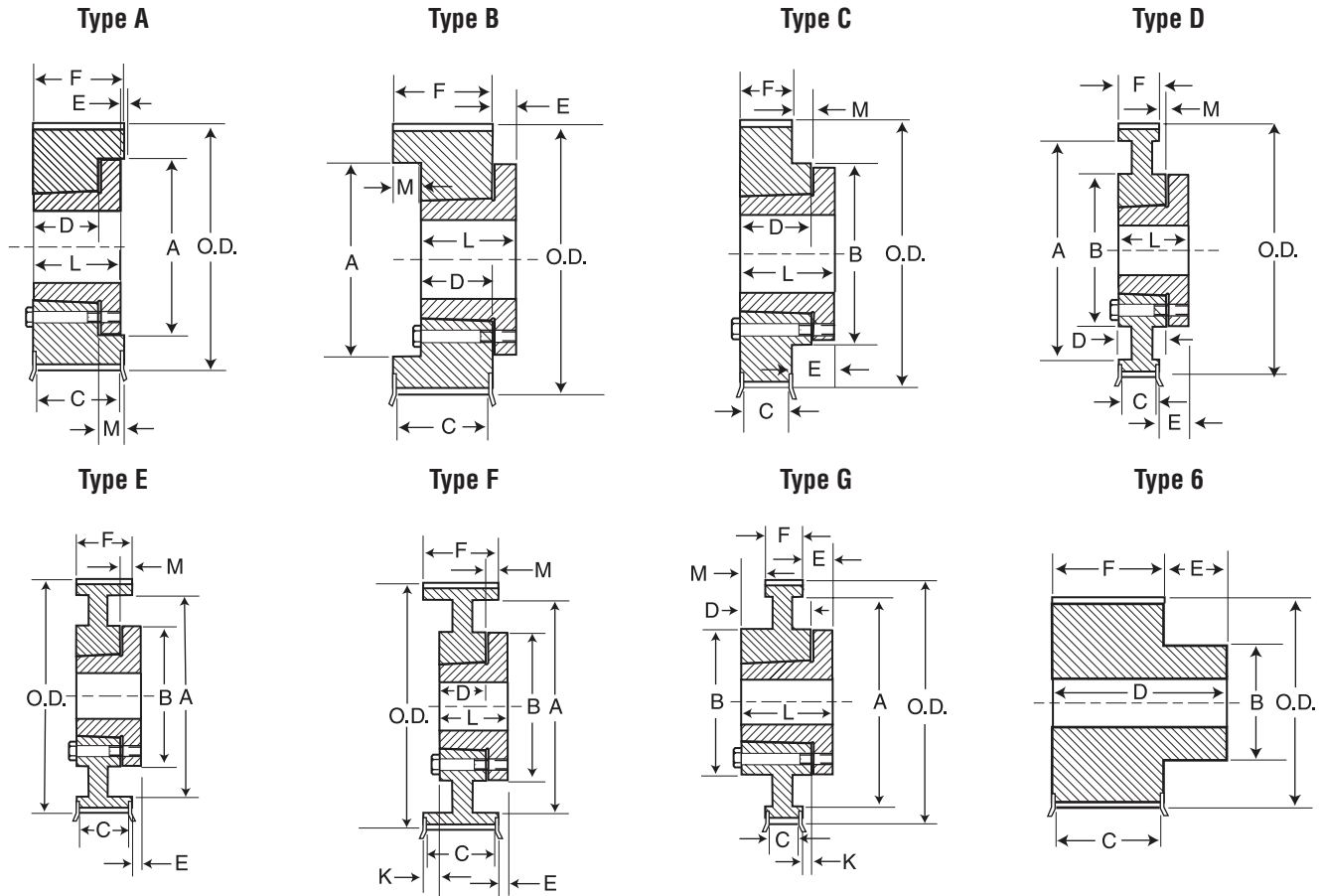


14mm Pitch — 125mm Wide Belt

No. of Teeth	Catalog Number	Bore	Pitch Diameter	Diameter		Type	Max Bore	Dimensions							Weight Approx. (lbs.)	
				O.D.	Max Flange O.D.			A	B	C	D	E	F	M		F-CL
MPB 14mm Pitch, 125mm (4.92 in.) Wide Belt (14M-125)																
28	PB14MX28S125	MPB	4.912	4.802	5.4	6F-1	2.938	-	3.97	5.29	6.5	0.89	5.61	-	2.81	22.0
29	PB14MX29S125	MPB	5.088	4.978	5.76	6F-1	3.188	-	4.35	5.29	6.5	0.89	5.61	-	2.81	27.0
30	PB14MX30S125	MPB	5.263	5.153	5.76	6F-1	3.188	-	4.35	5.29	6.5	0.89	5.61	-	2.81	30.2
31	PB14MX31S125	MPB	5.439	5.329	6.11	6F-1	3.438	-	4.57	5.29	6.5	0.89	5.61	-	2.81	32.0
32	PB14MX32S125	MPB	5.614	5.504	6.11	6F-1	3.438	-	4.57	5.29	6.5	0.89	5.61	-	2.81	34.0
33	PB14MX33S125	MPB	5.79	5.68	6.47	6F-1	3.5	-	4.89	5.29	6.69	1.08	5.61	-	2.81	31.8
34	PB14MX34S125	MPB	5.965	5.855	6.47	6F-1	3.5	-	4.89	5.29	6.69	1.08	5.61	-	2.81	34.3
35	PB14MX35S125	MPB	6.141	6.031	6.82	6F-1	3.813	-	5.30	5.29	6.69	1.08	5.61	-	2.81	36.2
36	PB14MX36S125	MPB	6.316	6.206	6.82	6F-1	3.813	-	5.30	5.29	6.69	1.08	5.61	-	2.81	38.0
37	PB14MX37S125	MPB	6.492	6.382	7.17	6F-1	4.125	-	5.63	5.29	6.69	1.08	5.61	-	2.81	40.3
38	PB14MX38S125	MPB	6.667	6.557	7.17	6F-1	4.125	-	5.63	5.29	6.69	1.08	5.61	-	2.81	42.5
39	PB14MX39S125	MPB	6.842	6.732	7.52	6F-1	4.375	-	5.89	5.29	6.69	1.08	5.61	-	2.81	44.9
40	PB14MX40S125	MPB	7.018	6.908	7.52	6F-1	4.375	-	5.89	5.29	6.69	1.08	5.61	-	2.81	47.2
43	PB14MX43S125	MPB	7.543	7.434	8.04	6F-1	4.813	-	6.51	5.29	6.81	1.2	5.61	-	2.81	55.5
45	PB14MX45S125	MPB	7.894	7.785	8.4	6F-1	5	-	6.76	5.29	6.81	1.2	5.61	-	2.81	61.3
48	PB14MX48S125	MPB	8.421	8.311	8.94	6F-1	5.625	-	7.29	5.29	6.81	1.2	5.61	-	2.81	68.7
Taper Bushed 14mm Pitch, 125mm (4.92 in.) Wide Belt (14M-125)																
50	14MX50S125-4535	4535	8.772	8.662	9.29	AF-1	4.5	7.44	-	5.29	3.5	-	5.61	-	2.81	39.4
53	14MX53S125-4535	4535	9.299	9.189	9.69	AF-1	4.5	8.125	-	5.29	3.5	-	5.61	-	2.81	50.1
56	14MX56S125-4535	4535	9.825	9.715	10.36	AF-1	4.5	8.35	-	5.29	3.5	-	5.61	-	2.81	52.6
60	14MX60S125-4535	4535	10.527	10.417	11.07	AF-1	4.5	9.06	-	5.29	3.5	-	5.61	-	2.81	63.3
63	14MX63S125-4535	4535	11.053	10.943	11.59	AF-1	4.5	9.59	-	5.29	3.5	-	5.61	-	2.81	77.2
67	14MX67S125-4535	4535	11.755	11.645	12.5	AF-1	4.5	9.88	-	5.29	3.5	-	5.61	-	2.81	93.8
71	14MX71S125-5040	5040	12.457	12.347	13.07	AF-1	5	10.67	-	5.29	4	-	5.61	-	2.81	93.0
75	14MX75S125-5040	5040	13.158	13.048	13.73	AF-1	5	11.63	-	5.29	4	-	5.61	-	2.81	132.8
80	14MX80S125-5040	5040	14.036	13.926	14.62	AF-1	5	12.59	-	5.29	4	-	5.61	-	2.81	137.0
90	14MX90S125-5040	5040	15.79	15.68	-	D-1	5	14.26	11	-	4	-	5.61	1.61	2.81	121.0
112	14MX112S125-6050	6050	19.65	19.54	-	A-1	6	16.35	-	-	5	-	5.61	0.61	2.81	210.6
140	14MX140S125-6050	6050	24.562	24.452	-	D-3	6	20.74	15.5	-	5	-	5.61	0.61	2.81	270.3
168	14MX168S125-7060	7060	29.475	29.365	-	C-3	7	25.11	17	-	6	-	5.61	0.39	2.81	345.2
180	14MX180S125-7060	7060	31.58	31.47	-	C-3	7	27.06	17	-	6	-	5.61	0.39	2.81	365.2
200	14MX200S125-7060	7060	35.089	34.979	-	C-3	7	30.29	17	-	6	-	5.61	0.39	2.81	373.5
224	14MX224S125-7060	7060	39.3	39.19	-	C-3	7	34.21	17	-	-	-	5.61	0.39	2.81	482.3

Type: 1- Solid 2- Web 3- Arms F=Flanged
 NOTE: Weights for Minimum Plain Bore (MPB) Sprockets are with minimum bore.
 Weights for Bushed Sprockets less bushing.
 Dimensions in Inches. Weight in pounds.

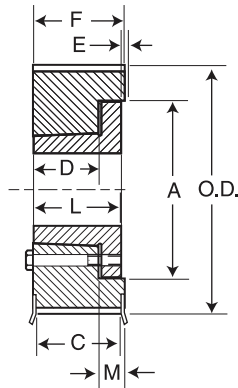
MPC® Sprockets 14mm Air Cool Heat Exchange



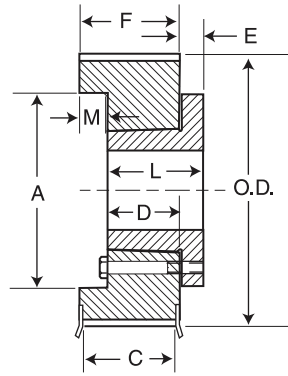
14mm Pitch — 20mm Wide Air Cool Heat Exchange Belt

No. of Teeth	Catalog Number	Bore	Pitch Diameter	Diameter		Type	Max Bore	Dimensions								Weight Approx. (lbs.)	
				O.D.	Max Flange O.D.			A	B	C	D	E	F	L	M		F-CL
MPB 14mm Pitch, 20mm (0.787 in.) Wide Belt (14M-20)																	
28	F14MX28S20-SK	SK	4.912	4.802	5.402	AF-1	2.625	3.61	-	1.04	1.25	0.45	1.36	1.94	0.11	0.68	3.90
29	F14MX29S20-SK	SK	5.088	4.978	5.763	AF-1	2.625	3.85	-	1.04	1.25	0.45	1.36	1.94	0.11	0.68	4.50
30	F14MX30S20-SK	SK	5.263	5.153	5.763	AF-1	2.625	3.99	-	1.04	1.25	0.45	1.36	1.94	0.11	0.68	4.80
31	F14MX31S20-SK	SK	5.439	5.329	6.114	AF-1	2.625	4.2	-	1.04	1.25	0.45	1.36	1.94	0.11	0.68	5.50
32	F14MX32S20-SK	SK	5.614	5.504	6.114	AF-1	2.625	4.22	-	1.04	1.25	0.45	1.36	1.94	0.11	0.68	5.9
33	F14MX33S20-SK	SK	5.79	5.68	6.465	AF-1	2.625	4.53	-	1.04	1.25	0.45	1.36	1.94	0.11	0.68	6.3
34	F14MX34S20-SK	SK	5.965	5.855	6.465	AF-1	2.625	4.53	-	1.04	1.25	0.45	1.36	1.94	0.11	0.68	6.9
35	F14MX35S20-SK	SK	6.141	6.031	6.816	AF-1	2.625	4.89	-	1.04	1.25	0.45	1.36	1.94	0.11	0.68	7.3
140	F14MX140S20-E	E	24.56	24.452	-	C-3	3.5	23.21	7.5	1.04	1.63	1.15	1.36	2.75	0.27	0.68	66.10
168	F14MX168S20-F	F	29.472	29.365	-	G-3	4	27.46	7.25	1.04	2.5	1.58	1.36	3.75	0.56	0.68	90.00
180	F14MX180S20-F	F	31.58	31.47	-	C-3	4	29.38	7.25	1.04	2.5	2.14	1.36	3.75	1.14	0.68	107.30
200	F14MX200S20-F	F	35.086	34.98	-	G-3	4	32.88	7.25	1.04	2.5	1.26	1.36	3.75	0.88	0.68	119.00
224	F14MX224S20-F	F	39.3	39.19	-	C-3	4	37.13	7.25	1.04	2.5	1.15	1.36	3.75	1.14	0.68	125.00

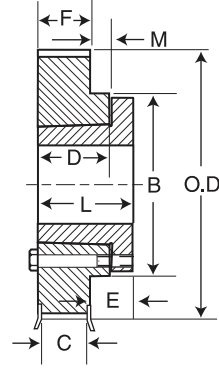
Type: 1 - Solid 2 - Web 3 - Arms F=Flanged
 NOTE: Weights for Minimum Plain Bore (MPB) Sprockets are with minimum bore.
 Weights for Bushed Sprockets less bushing.
 Dimensions in Inches. Weight in pounds.



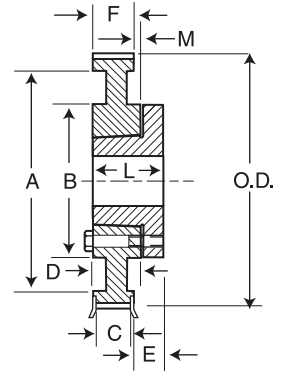
Type E



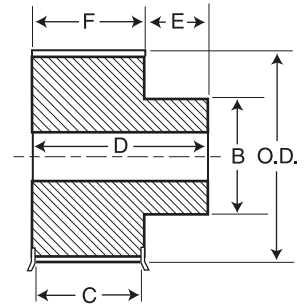
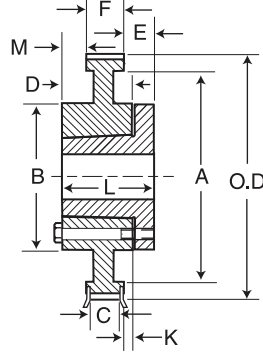
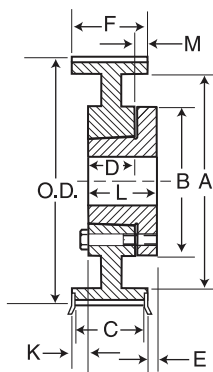
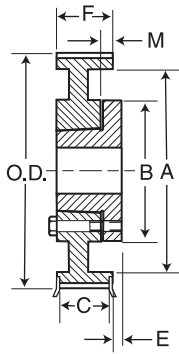
Type F



Type G



Type 6



14mm Pitch — 37mm Wide Air Cool Heat Exchange Belt

No. of Teeth	Catalog Number	Bore	Pitch Diameter	Diameter		Type	Max Bore	Dimensions								Weight Approx. (lbs.)	
				O. D.	Max Flange O. D.			A	B	C	D	E	F	L	M		F-CL
MPB 14mm Pitch, 20mm (0.787 in.) Wide Belt (14M-20)																	
28	F14MX28S37-SK	SK	4.912	4.802	5.402	BF-1	2.625	3.61	-	1.74	1.25	0.56	2.06	1.94	0.81	1.03	4.20
29	F14MX29S37-SK	SK	5.088	4.978	5.763	BF-1	2.625	3.75	-	1.74	1.25	0.56	2.06	1.94	0.81	1.03	4.70
30	F14MX30S37-SK	SK	5.263	5.153	5.763	BF-1	2.625	3.89	-	1.74	1.25	0.56	2.06	1.94	0.81	1.03	5.00
31	F14MX31S37-SK	SK	5.439	5.329	6.114	AF-1	2.625	4.06	-	1.74	1.25	-0.25	2.06	1.94	0.81	1.03	6.00
32	F14MX32S37-SK	SK	5.614	5.504	6.114	AF-1	2.625	4.22	-	1.74	1.25	-0.25	2.06	1.94	0.81	1.03	7.10
33	F14MX33S37-SK	SK	5.79	5.68	6.465	AF-1	2.625	4.41	-	1.74	1.25	-0.25	2.06	1.94	0.81	1.03	7.50
34	F14MX34S37-SK	SK	5.965	5.855	6.465	AF-1	2.625	4.53	-	1.74	1.25	-0.25	2.06	1.94	0.81	1.03	7.80
35	F14MX35S37-SK	SK	6.141	6.031	6.816	AF-1	2.625	4.75	-	1.74	1.25	-0.25	2.06	1.94	0.81	1.03	8.30
36	F14MX36S37-SF	SF	6.315	6.206	6.816	AF-1	2.813	4.94	-	1.74	1.5	-0.19	2.06	2.06	0.56	1.03	8.80
180	F14MX180S37-E	E	31.580	31.47	-	D-3	3.5	29.38	7.5	-	1.63	0.69	2.03	2.75	0.21	1.02	120.00
200	F14MX200S37-E	E	35.086	34.98	-	D-3	3.5	32.92	7.5	-	1.63	0.69	2.03	2.75	0.21	1.02	130.00
224	F14MX224S37-E	E	39.300	39.19	-	D-3	3.5	37.13	7.5	-	1.63	0.69	2.03	2.75	0.21	1.02	177.00

Type: 1- Solid 2 - Web 3 - Arms F=Flanged
 NOTE: Weights for Minimum Plain Bore (MPB) Sprockets are with minimum bore.
 Weights for Bushed Sprockets less bushing.
 Dimensions in Inches. Weight in pounds.

Sprocket Specifications

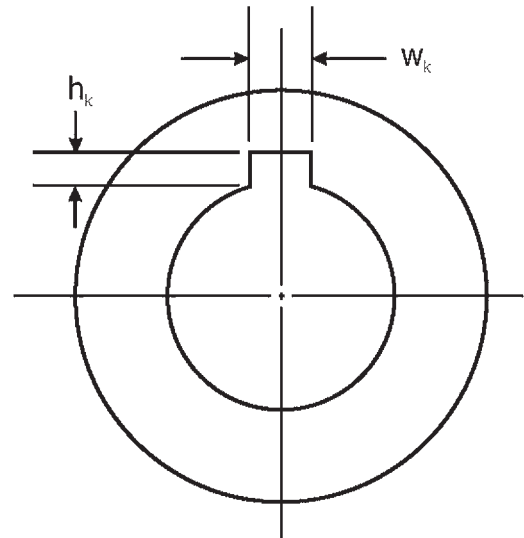


Sprocket Tolerance Specifications

MPC® sprockets are made to close tolerances. Strict adherence to the standard tolerances (as shown in table below) is highly recommended.

Sprocket Outside Diameter and Pitch

Outside Diameter Range (in)	Outside Diameter Tolerance (in)	Pitch to Pitch Tolerance	
		Adjacent Grooves	Accumulative Over 90 Degrees
Over 2 to and including 4	+ 0.004 - 0	± 0.001	± 0.0045
Over 4 to and including 7	+ 0.005 - 0	± 0.001	± 0.005
Over 7 to and including 12	+ 0.006 - 0	± 0.001	± 0.005
Over 12 to and including 20	+ 0.007 - 0	± 0.001	± 0.0065
Over 20	+ 0.008 - 0	± 0.001	± 0.0075



Sprocket Runout Radiant Runout*

Outside Diameter		Total Eccentricity Total Indicator Reading	
in	mm	in	mm
Over 2 to 4	50	0.003	0.08
	100		
Over 4 to 8	100	0.004	0.10
	200		
Over 8	200	0.005 per inch O.D. over 8"	.013 per mm O.C. over 200mm
		(may not exceed face diameter tolerance)	

*Total Indicator Reading

Axial Runout*

For outside diameters 1.0 inches and under 0.001 inches
 For each additional inch of outside diameter up through 10.0 inches, add 01 inches
 For each additional inch outside diameter over 10.0 inches, add 05 inches

*Total Indicator Reading

Sprocket and Bushing Keyseat

Shaft Diameter (in)	Width w_k †	Depth h_k (in) + 0.015 0
Up through 7/16 (0.44)	3/32 (0.0938)	3/64 (0.047)
over 7/16 (0.44) to and incl. 9/16 (0.56)	1/8 (0.125)	1/16 (0.062)
over 9/16 (0.56) to and incl. 7/8 (0.88)	3/16 (0.1875)	3/32 (0.094)
over 7/8 (0.88) to and incl. 1-1/4 (1.25)	1/4 (0.250)	1/8 (0.125)
over 1-1/4 (1.25) to and incl. 1-3/8 (1.38)	5/16 (0.3125)	5/32 (0.156)
over 1-3/8 (1.38) to and incl. 1-3/4 (1.75)	3/8 (0.375)	3/16 (0.188)
over 1-3/4 (1.75) to and incl. 2-1/4 (2.25)	1/2 (0.500)	1/4 (0.250)
over 2-1/4 (2.25) to and incl. 2-3/4 (2.75)	5/8 (0.625)	5/16 (0.312)
over 2-3/4 (2.75) to and incl. 3-1/4 (3.25)	3/4 (0.750)	3/8 (0.375)
over 3-1/4 (3.25) to and incl. 3-3/4 (3.75)	7/8 (0.875)	7/16 (0.438)
over 3-3/4 (3.75) to and incl. 4-1/2 (4.50)	1 (1)	1/2 (0.500)
over 4-1/2 (4.50) to and incl. 5-1/2 (5.50)	1-1/4 (1.250)	5/8 (0.625)

† Tolerance on width w_k
 For width up through 1/2 (0.500) +0.002, 0 inches
 For width up through 1/2 (0.500) up through 1 (1) +0.003, 0 inches
 For width over 1 (1) +0.004, 0 inches

PLASTICS

PRODUCT	PAGE
SECTION I – NON-METALLIC SPROCKETS	L-2 – L-30
SPROCKETS - STOCK	
NO. 25 – ¼" PITCH	L-5
NO. 35 – ⅜" PITCH	L-6
NO. 40 – ½" PITCH	L-7
NO. 50 – ⅝" PITCH	L-8
NO. 60 – ¾" PITCH	L-9
NO. 80 – 1" PITCH	L-10
NO. 100 – 1¼" PITCH	L-11
SPROCKETS - METRIC	L-12 – L-14
IDLER SPROCKETS	L-15
DOUBLE PITCH SPROCKETS	L-16 – L-20
MILL DUTY SPROCKETS	L-21 – L-29
PLASTIC FLAT TOP CONVEYOR SPROCKET	L-30 – L-34
SECTION II – NATURAL NYLON GEARS	L-35 – L-40
GEARS - STOCK – 14½° PRESSURE ANGLE	
4DP – 2" FACE	L-36
5DP – 1¾" FACE	L-37
6DP – 1½" FACE	L-38
8DP – 1¼" FACE	L-39
10DP – 1" FACE	L-40
12DP – ¾" FACE	L-41
16DP – ½" FACE	L-42
20DP – ⅜" FACE	L-43
GEAR RACKS – 14½° PRESSURE ANGLE	L-44
GEAR RACKS – 20° PRESSURE ANGLE	L-44
SECTION III – BELT DRIVES	L-45 – L-49
V-BELT SHEAVE - SECTION A/B	L-45
ROUND BELT PULLEY	L-46
FLAT BELT & CAN LINE PULLEY	L-47
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WASTE WATER TREATMENT PRODUCTS	L-50 – L-52
REPLACEMENT PARTS FOR BOTTLING & PACKAGING PLANTS	L-53
STATIONARY GUIDES	L-54 – L-64

Non-Metallic Sprockets



Benefits:

- **Extend Chain Life**
- **Corrosion Resistant Materials**
- **Light-Weight**
- **USDA/FDA Approved**
- **For use with Steel or Plastic Chain**

To meet our customers' diverse needs, *Martin* offers many roller chain sprockets made of industrial plastics. Plastic roller chain sprockets often prove superior in performance and durability compared with conventional metallic sprockets.

The benefits of using plastic roller chain sprockets include extended chain life, corrosion resistance, light weight, and decreased noise levels.

Martin plastic sprockets are available in USDA/ FDA approved materials for applications involving food or drug processing and packaging.

Roller chain is available in sizes No. 25, 35, and 40. Most roller chain sprockets are available in "A" plate, "B" hub, or "C" hub styles. "B" hubs are made with either plastic or bolt-on metal hubs. *Martin* also manufactures metal hubs in steel and stainless steel.

Non-standard or custom-sized sprockets are also available, including square bores, snap ring and grease grooves, special cutouts, and special tooth dimensions. *Martin* can fabricate products from several types of plastics, including:

- **Nylon**
- **UHMW**
- **Acetal**
- **Teflon®**
- **Polypropylene**



of Strands _____ **D 160 B 16 NM 2 1/4** _____ **Bore Size**

Blank Single
D Double
E Triple
F Quadruple
DS Double Single

Chain Pitch (measured in eighths)

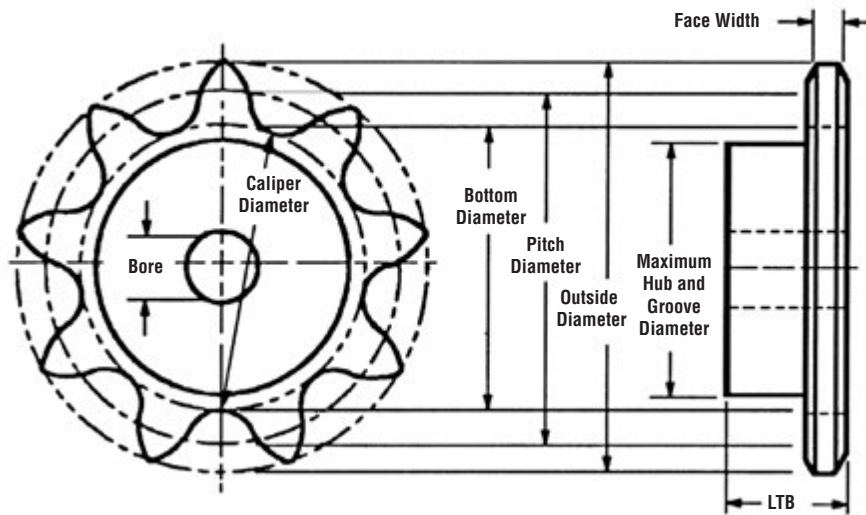
25 = 2/8 = 1/4"	100 = 10/8 = 1 1/4"
35 = 3/8 = 3/8"	120 = 12/8 = 1 1/2"
40 = 4/8 = 1/2"	140 = 14/8 = 1 3/4"
41 = 4/8 = 1/2"	160 = 16/8 = 2"
50 = 5/8 = 5/8"	180 = 18/8 = 2 1/4"
60 = 6/8 = 3/4"	200 = 20/8 = 2 1/2"
80 = 8/8 = 1"	240 = 24/8 = 3"

Material
NM Non-Metallic

of Teeth

Sprocket Type

A Plate Only	JA, SH,... QD
B Hub One Side	BTB Taper Bushed
C Hub Both Sides	H, P, Q,... MST®
D Detachable Hubs	BS Bored-To-Size



Sprocket Dimensional Specifications

Bottom Diameter (B.D.)

- The diameter of a circle tangent to the seating curve at the bottom of the tooth gap of a roller chain sprocket.

Caliper Diameter

- Since the bottom diameter of a sprocket with odd number of teeth cannot be measured directly, caliper diameters are the measurement across the tooth gaps nearly opposite.

Pitch Diameter (P.D.)

- The diameter across to the pitch circle which is the circle followed by the centers of the chain pins as the sprocket revolves in mesh with the chain.

$$PD = \frac{PITCH}{\sin(180/Nt)}$$

Outside Diameter (O.D.)

- The measurement from the tip of the sprocket tooth across to the corresponding point directly across the sprocket. It is comparatively unimportant as the tooth length is not vital to proper meshing with the chain. The outside diameter may vary depending on type of cutter used.

$$OD = (Pitch) (.6 + \cot [180 / Nt])$$

Hub Diameter (HOD)

- That distance across the hub from one side to another. This diameter must not exceed the calculated diameter of the inside of the chain side bars.

Maximum Sprocket Bore

- Maximum Sprocket Bore is determined by the required hub wall thickness for proper strength. Allowance must be made for keyway and setscrews.

Face Width

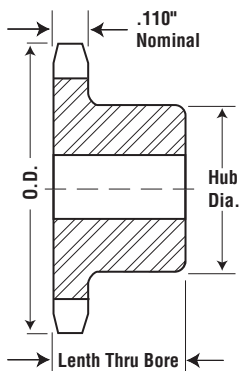
- Face width is limited in its maximum dimension to allow proper clearance to provide for chain engagement and disengagement. The minimum width is limited to provide the proper strength to carry the imposed loads.

Length Thru Bore (LTB)

- Length Thru Bore (or L.T.B.) must be sufficient to allow a long enough key to withstand the torque transmitted by the shaft. This also assures stability of the sprocket on the shaft.

Available with:

- Stock Bore
- Finished Bore Sizes



TYPE B

Single-Type B — Nylon

Number of Teeth	Catalog Number	Diameter		Type	Bore (in)		Hub (in)	
		Outside	Pitch		Stock	Max	Diameter	LTB
9	25B9NM	0.837	0.731	B	0.25	0.25	0.594	0.5
10	25B10NM	0.919	0.809	B	0.25	0.313	0.563	0.485
11	25B11NM	1.001	0.887	B	0.25	0.375	0.563	0.485
12	25B12NM	1.083	0.966	B	0.25	0.438	0.688	0.485
13	25B13NM	1.164	1.045	B	0.25	0.5	0.75	0.485
14	25B14NM	1.245	1.123	B	0.375	0.5	0.75	0.485
15	25B15NM	1.326	1.202	B	0.375	0.5	0.75	0.485
16	25B16NM	1.407	1.281	B	0.375	0.5	0.813	0.485
17	25B17NM	1.487	1.361	B	0.375	0.5	0.906	0.485
18	25B18NM	1.568	1.44	B	0.375	0.5	1	0.485
19	25B19NM	1.648	1.519	B	0.375	0.5	1.063	0.485
20	25B20NM	1.728	1.598	B	0.375	0.5	1.156	0.485
21	25B21NM	1.809	1.677	B	0.375	0.5	1.156	0.485
22	25B22NM	1.889	1.757	B	0.375	0.5	1.156	0.485
23	25B23NM	1.969	1.836	B	0.375	0.5	1.156	0.485
24	25B24NM	2.049	1.915	B	0.5	0.188	1.781	0.7
25	25B25NM	2.129	1.995	B	0.5	1	1.86	0.7
26	25B26NM	2.209	2.074	B	0.5	0.188	1.938	0.7
27	25B27NM	2.289	2.153	B	0.5	1	2	0.7
28	25B28NM	2.369	2.233	B	0.5	0.188	1.219	0.7
29	25B29NM	2.449	2.312	B	0.5	1	2	0.7
30	25B30NM	2.529	2.392	B	0.5	1	2	0.7
31	25B31NM	2.609	2.471	B	0.5	1	2	0.7
32	25B32NM	2.688	2.551	B	0.5	1	2	0.7
33	25B33NM	2.688	2.63	B	0.5	1	2	0.7
34	25B34NM	2.848	2.709	B	0.5	1	2	0.7
35	25B35NM	2.928	2.789	B	0.5	1	2	0.7
36	25B36NM	3.008	2.868	B	0.5	1	2	0.7
37	25B37NM	3.087	2.948	B	0.5	1	2	0.7
39	25B39NM	3.167	3.107	B	0.5	1	2	0.7
40	25B40NM	3.327	3.186	B	0.5	1	2	0.7
41	25B41NM	3.406	3.266	B	0.5	1	2	0.7
42	25B42NM	3.486	3.345	B	0.5	1	2	0.7
43	25B43NM	3.566	3.425	B	0.5	1	2	0.7
44	25B44NM	3.646	3.504	B	0.5	1	2	0.7
45	25B45NM	3.725	3.584	B	0.5	1	2	0.7
46	25B46NM	3.805	3.663	B	0.5	1	2	0.7
47	25B47NM	3.885	3.743	B	0.5	1	2	0.7
48	25B48NM	3.964	3.822	B	0.5	1	2	0.7
49	25B49NM	4.044	3.902	B	0.5	1.5	2	0.75
50	25B50NM	4.124	3.981	B	0.5	1.5	2	0.75
54	25B54NM	4.442	4.3	B	0.5	1.5	2	0.75
60	25B60NM	4.92	4.777	B	0.5	0.875	1.375	0.61

Notes:

- Standard Material: Natural Nylon.
- Other numbers of teeth and hub styles available.
- Available as stock drilled bore, finished drive bore with keyway and setscrews, or idler bore.
- A Plate and C Style also available.

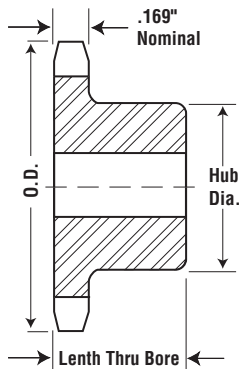
No. 35

3/8" Pitch

Plastic Sprockets

Available with:

- Stock Bore
- Finished Bore Sizes



TYPE B

Single-Type B — Nylon

Number of Teeth	Catalog Number	Diameter		Type	Bore (in)		Hub (in)	
		Outside	Pitch		Stock	Max	Diameter	LTB
8	35B8NM	1.13	0.98	B	0.25	0.375	0.75*	0.75
9	35B9NM	1.096	1.096	B	0.25	0.375	0.844*	0.75
10	35B10NM	1.379	1.214	B	0.375	0.438	0.969*	0.75
11	35B11NM	1.502	1.331	B	0.375	0.5	1.063*	0.75
12	35B12NM	1.625	1.449	B	0.5	0.563	1.219*	0.75
13	35B13NM	1.746	1.567	B	0.5	0.5	1.250*	0.75
14	35B14NM	1.868	1.685	B	0.5	0.75	1.25	0.75
15	35B15NM	1.989	1.804	B	0.5	0.813	1.344	0.875
16	35B16NM	2.11	1.922	B	0.5	0.938	1.469	0.875
17	35B17NM	2.231	2.041	B	0.5	0.875	1.594	0.875
18	35B18NM	2.352	2.16	B	0.5	0.688	1.719	0.875
19	35B19NM	2.472	2.278	B	0.5	1	1.844	0.875
20	35B20NM	2.593	2.397	B	0.5	1.188	1.938	0.875
21	35B21NM	2.713	2.516	B	0.5	1	2	0.875
22	35B22NM	2.833	2.635	B	0.5	1	2	0.875
23	35B23NM	2.953	2.754	B	0.5	1	2	0.875
24	35B24NM	3.073	2.873	B	0.5	1.188	2	0.875
25	35B25NM	3.193	2.992	B	0.5	1	2	0.875
26	35B26NM	3.313	3.111	B	0.5	1.438	2	0.875
27	35B27NM	3.433	3.23	B	0.5	1	2	0.875
28	35B28NM	3.553	3.349	B	0.5	1	2	0.875
29	35B29NM	3.673	3.468	B	0.5	1	2	0.875
30	35B30NM	3.793	3.588	B	0.5	1.438	2	0.875
31	35B31NM	3.913	3.707	B	0.5	1	2	0.875
32	35B32NM	4.032	3.826	B	0.5	1.5	2	0.875
33	35B33NM	4.152	3.945	B	0.5	1.5	2.375	0.875
34	35B34NM	4.272	4.064	B	0.5	1.5	2.375	0.875
35	35B35NM	4.392	4.183	B	0.5	1.438	2.375	0.875
36	35B36NM	4.511	4.303	B	0.5	1.438	2.375	0.875
37	35B37NM	4.631	4.422	B	0.5	1.5	2.375	0.875
38	35B38NM	4.751	4.541	B	0.5	1.5	2.375	0.875
39	35B39NM	4.87	4.66	B	0.5	1.5	2.375	0.875
40	35B40NM	4.99	4.78	B	0.5	1.75	2.375	1
41	35B41NM	5.109	4.899	B	0.5	1.5	2.375	1
42	35B42NM	5.229	5.018	B	0.5	1.5	2.375	1
43	35B43NM	5.349	5.137	B	0.5	1.5	2.375	1
44	35B44NM	5.468	5.257	B	0.5	1.5	2.375	1
45	35B45NM	5.588	5.376	B	0.5	1.75	2.375	1
46	35B46NM	5.707	5.495	B	0.5	1.5	2.375	1
47	35B47NM	5.827	5.614	B	0.5	1.5	2.375	1
48	35B48NM	5.946	5.734	B	0.5	1.5	2.375	1

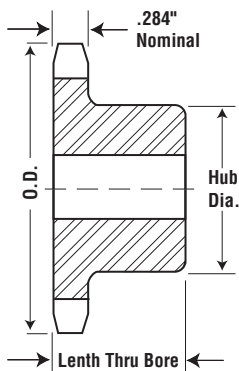
* Has recessed groove for chain clearance.

Notes:

- Standard Material: Natural Nylon.
- Other numbers of teeth and hub styles available.
- Available as stock drilled bore, finished drive bore with keyway and setscrews, or idler bore.
- A Plate and C Style also available.

Available with:

- Stock Bore
- Finished Bore Sizes



TYPE B

Single-Type B — Nylon

Number of Teeth	Catalog Number	Diameter		Type	Bore (in)		Hub (in)	
		Outside	Pitch		Stock	Max	Diameter	LTB
8	40B8NM	1.507	1.307	B	0.5	0.5	1	0.875
9	40B9NM	1.674	1.462	B	0.5	0.5	1.063	0.875
10	40B10NM	1.839	1.618	B	0.5	0.5	1.25	0.875
11	40B11NM	2.003	1.775	B	0.5	0.5	1.375	0.875
12	40B12NM	2.166	1.932	B	0.5	0.625	1.563	0.875
13	40B13NM	2.329	2.089	B	0.5	0.625	1.563	0.875
14	40B14NM	2.491	2.247	B	0.5	0.75	1.688	0.875
15	40B15NM	2.652	2.405	B	0.5	0.875	1.813	0.875
16	40B16NM	2.814	2.563	B	0.5	0.938	2	0.875
17	40B17NM	2.975	2.721	B	0.5	1	2.125	1
18	40B18NM	3.136	2.879	B	0.5	1.125	2.313	1
19	40B19NM	3.296	3.038	B	0.5	1.25	2.5	1
20	40B20NM	3.457	3.196	B	0.5	1.25	2.625	1
21	40B21NM	3.617	3.355	B	0.5	1.25	2.75	1
22	40B22NM	3.778	3.513	B	0.5	1.375	2.875	1
23	40B23NM	3.938	3.672	B	0.5	1.375	3	1
24	40B24NM	4.098	3.831	B	0.5	1.5	3.25	1
25	40B25NM	4.258	3.989	B	0.5	1.5	3.25	1
26	40B26NM	4.418	4.148	B	0.5	1.5	3.25	1
27	40B27NM	4.578	4.307	B	0.5	1.5	3.25	1
28	40B28NM	4.738	4.466	B	0.5	1.5	3.25	1
29	40B29NM	4.897	4.625	B	0.5	1.5	3.25	1
30	40B30NM	5.057	4.783	B	0.5	1.5	3.25	1
31	40B31NM	5.217	4.942	B	0.5	1.5	3.25	1
32	40B32NM	5.377	5.101	B	0.5	1.5	3.25	1
33	40B33NM	5.536	5.26	B	0.5	1.5	3.25	1
34	40B34NM	5.696	5.419	B	0.5	1.5	3.25	1
35	40B35NM	5.855	5.578	B	0.5	1.5	3.25	1
36	40B36NM	6.015	5.737	B	0.5	1.5	3.25	1
37	40B37NM	6.175	5.896	B	0.5	1.5	3.25	1
38	40B38NM	6.334	6.055	B	0.5	1.5	3.25	1
39	40B39NM	6.494	6.214	B	1	1.5	3.25	1
40	40B40NM	6.653	6.373	B	1	1.75	3.5	1.125
41	40B41NM	6.813	6.532	B	1	1.75	3.5	1.125
42	40B42NM	6.972	6.691	B	1	1.75	3.5	1.125
43	40B43NM	7.131	6.85	B	1	1.75	3.5	1.125
44	40B44NM	7.291	7.009	B	1	1.75	3.5	1.125
45	40B45NM	7.45	7.168	B	1	1.75	3.5	1.125
46	40B46NM	7.61	7.327	B	1	1.75	3.5	1.125
47	40B47NM	7.769	7.486	B	1	1.75	3.5	1.125
48	40B48NM	7.929	7.645	B	1	1.75	3.5	1.125

Notes:

- Standard Material: Natural Nylon.
- Other numbers of teeth and hub styles available.
- Available as stock drilled bore, finished drive bore with keyway and setscrews, or idler bore.
- A Plate and C Style also available.

No. 50

5/8" Pitch

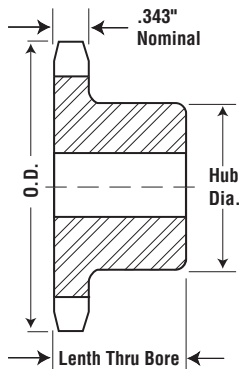
Plastic Sprockets



Available with:

- Stock Bore
- Finished Bore Sizes

Single-Type B — Nylon



TYPE B

Number of Teeth	Catalog Number	Diameter		Type	Bore (in)		Hub (in)	
		Outside	Pitch		Stock	Max	Diameter	LTB
9	50B9NM	2.092	1.827	B	0.5	0.625	1.375*	1
10	50B10NM	1.839	2.023	B	0.5	0.75	1.563*	1
11	50B11NM	2.504	2.218	B	0.5	0.875	1.75*	1
12	50B12NM	2.708	2.415	B	0.5	1	1.984*	1
13	50B13NM	2.911	2.612	B	0.5	0.875	1.875	1
14	50B14NM	3.113	2.803	B	0.5	1	2.125	1
15	50B15NM	3.315	3.006	B	0.5	1.25	2.375	1
16	50B16NM	3.517	3.204	B	0.5	1.25	2.5	1
17	50B17NM	3.718	3.401	B	0.5	1.375	2.688	1
18	50B18NM	3.92	3.599	B	0.5	1.5	2.875	1
19	50B19NM	4.12	3.797	B	0.5	1.625	3	1
20	50B20NM	4.321	3.995	B	0.5	1.625	3	1
21	50B21NM	4.522	4.193	B	0.5	1.625	3	1
22	50B22NM	4.722	4.392	B	0.5	1.625	3	1
23	50B23NM	4.922	4.59	B	0.5	1.625	3	1
24	50B24NM	5.122	4.788	B	0.5	1.625	3	1.25
25	50B25NM	5.322	4.987	B	0.5	1.625	3	1.25
26	50B26NM	5.522	5.185	B	0.5	1.625	3	1.25
27	50B27NM	5.722	5.384	B	0.5	1.625	3	1.25
28	50B28NM	5.922	5.582	B	0.5	1.625	3	1.25
29	50B29NM	6.122	5.781	B	0.5	1.625	3	1.25
30	50B30NM	6.321	5.979	B	0.5	1.75	3.75	1.25
31	50B31NM	6.521	6.178	B	0.5	1.75	3.75	1.25
32	50B32NM	6.721	6.376	B	0.5	1.75	3.75	1.25
33	50B33NM	6.92	6.575	B	0.5	1.75	3.75	1.25
34	50B34NM	7.12	6.774	B	0.5	1.75	3.75	1.25
35	50B35NM	7.319	6.972	B	0.5	1.75	3.75	1.25
36	50B36NM	7.519	7.171	B	0.5	1.75	3.75	1.25
37	50B37NM	7.718	7.37	B	0.5	1.75	3.75	1.25
38	50B38NM	7.918	7.568	B	0.5	1.75	3.75	1.25
39	50B39NM	8.117	7.767	B	0.5	1.75	3.75	1.25
40	50B40NM	8.316	7.966	B	0.75	2	3.5	1.25
41	50B41NM	8.516	8.165	B	0.75	2	3.5	1.25
42	50B42NM	8.715	8.363	B	0.75	2	3.5	1.25
43	50B43NM	8.914	8.562	B	0.75	2	3.5	1.25
44	50B44NM	9.114	8.761	B	0.75	2	3.5	1.25
45	50B45NM	9.313	8.96	B	0.75	2.375	4	1.25
46	50B46NM	9.512	9.159	B	0.75	2.375	4	1.25
47	50B47NM	9.711	9.357	B	0.75	2.375	4	1.25
48	50B48NM	9.911	9.556	B	0.75	2.375	4	1.25

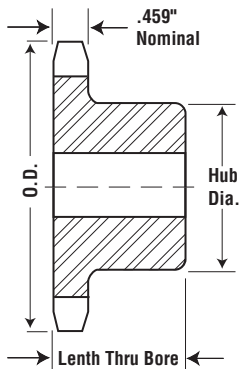
* Has recessed groove for chain clearance.

Notes:

- Standard Material: Natural Nylon.
- Other numbers of teeth and hub styles available.
- Available as stock drilled bore, finished drive bore with keyway and setscrews, or idler bore.
- A Plate and C Style also available.

Available with:

- Stock Bore
- Finished Bore Sizes



TYPE B

Single-Type B — Nylon

Number of Teeth	Catalog Number	Diameter		Type	Bore (in)		Hub (in)	
		Outside	Pitch		Stock	Max	Diameter	LTB
8	60B8NM	2.261	1.96	B	0.5	0.625	1.5*	1.25
9	60B9NM	2.511	2.193	B	0.5	0.875	1.5*	1.25
10	60B10NM	2.758	2.427	B	0.5	1	0.5	1.25
11	60B11NM	3.004	2.662	B	0.75	1	2*	1.25
12	60B12NM	3.249	2.898	B	0.75	1	2	1.25
13	60B13NM	3.493	3.134	B	0.75	1	2.313	1.25
14	60B14NM	3.736	3.37	B	0.75	1	2.5	1.25
15	60B15NM	3.978	3.607	B	0.75	1	2.875	1.25
16	60B16NM	4.221	3.844	B	0.75	1	3	1.25
17	60B17NM	4.462	4.082	B	1	2	3.25	1.25
18	60B18NM	4.703	4.319	B	1	2	3.5	1.25
19	60B19NM	4.945	4.557	B	1	2	3.5	1.25
20	60B20NM	5.185	4.794	B	1	2	3.875	1.25
21	60B21NM	5.426	5.032	B	1	2	4	1.25
22	60B22NM	5.666	5.27	B	1	2	4	1.25
23	60B23NM	5.907	5.508	B	1	2	4	1.25
24	60B24NM	6.147	5.746	B	1	2	4	1.25
25	60B25NM	6.387	5.984	B	1	2	4	1.25
26	60B26NM	6.627	6.222	B	1	2.5	4	1.25
27	60B27NM	6.867	6.46	B	1	2.5	4	1.25
28	60B28NM	7.106	6.699	B	1	2.5	4	1.25
29	60B29NM	7.346	6.937	B	1	2.5	4	1.25
30	60B30NM	7.586	7.175	B	1	2.5	4	1.25
31	60B31NM	7.825	7.413	B	1	2.5	4	1.25
32	60B32NM	8.065	7.652	B	1	2.5	4	1.25
33	60B33NM	8.304	7.89	B	1	2.5	4	1.25
34	60B34NM	8.544	8.128	B	1	3	4.5	1.25
35	60B35NM	8.783	8.367	B	1	3	4.5	1.25
36	60B36NM	9.023	8.605	B	1	3	4.5	1.25
37	60B37NM	9.262	8.844	B	1	3	4.5	1.25
38	60B38NM	9.501	9.082	B	1	3	4.5	1.25
39	60B39NM	9.74	9.321	B	1	3	4.5	1.25
40	60B40NM	9.98	9.559	B	1	3	4.5	1.25
41	60B41NM	10.219	9.798	B	1	3	4.5	1.25
42	60B42NM	10.458	10.036	B	1	3.5	5	1.25
43	60B43NM	10.697	10.275	B	1	3.5	5	1.25
44	60B44NM	10.936	10.513	B	1	3.5	5	1.25
45	60B45NM	11.175	10.752	B	1	3.5	5	1.25
46	60B46NM	11.415	10.99	B	1	3.5	5	1.25
47	60B47NM	11.654	11.229	B	1	3.5	5	1.25
48	60B48NM	11.893	11.467	B	1	3.5	5	1.25
49	60B49NM	12.132	11.706	B	1	3.5	5	1.25
50	60B50NM	12.371	11.944	B	1	3.5	5	1.25

* Has recessed groove for chain clearance.

Notes:

- Standard Material: Natural Nylon.
- Other numbers of teeth and hub styles available.
- Available as stock drilled bore, finished drive bore with keyway and setscrews, or idler bore.
- A Plate and C Style also available.

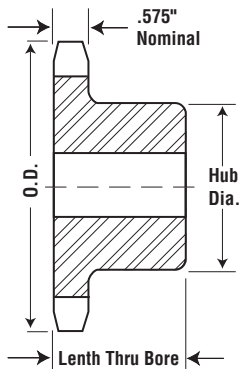
No. 80 1" Pitch

Plastic Sprockets

Available with:

- Stock Bore
- Finished Bore Sizes

Single-Type B — Nylon



TYPE B

Number of Teeth	Catalog Number	Diameter		Type	Bore (in)		Hub (in)	
		Outside	Pitch		Stock	Max	Diameter	LTB
8	80B8NM	3.014	2.613	B	0.75	1	2*	1.5
9	80B9NM	3.347	2.924	B	0.75	1	2*	1.5
10	80B10NM	3.678	3.236	B	0.75	1	2	1.5
11	80B11NM	4.006	3.549	B	0.75	1	2	1.5
12	80B12NM	4.332	3.864	B	0.75	1	2	1.5
13	80B13NM	4.657	4.179	B	1	2	3.25	1.5
14	80B14NM	4.981	4.494	B	1	2	3.25	1.5
15	80B15NM	5.305	4.81	B	1	2	3.25	1.5
16	80B16NM	5.627	5.126	B	1	2	3.25	1.5
17	80B17NM	5.95	5.442	B	1	2	3.25	1.5
18	80B18NM	6.271	5.759	B	1	2	3.25	1.5
19	80B19NM	6.593	6.076	B	1	2.5	4	1.5
20	80B20NM	6.914	6.392	B	1	2.5	4	1.5
21	80B21NM	7.235	6.71	B	1	2.5	4	1.75
22	80B22NM	7.555	7.027	B	1	2.5	4	1.75
23	80B23NM	7.876	7.344	B	1	2.5	4	1.75
24	80B24NM	8.196	7.661	B	1	2.5	4	1.75
25	80B25NM	8.516	7.979	B	1	2.5	4	1.75
26	80B26NM	8.836	8.296	B	1	3	4.5	2
27	80B27NM	9.156	8.614	B	1	3	4.5	2
28	80B28NM	9.475	8.931	B	1	3	4.5	2
29	80B29NM	9.795	9.249	B	1	3	4.5	2
30	80B30NM	10.114	9.567	B	1	3	4.5	2
31	80B31NM	10.434	9.885	B	1	3	4.5	2
32	80B32NM	10.753	10.202	B	1	3.5	5	2
33	80B33NM	11.072	10.52	B	1	3.5	5	2
34	80B34NM	11.392	10.838	B	1	3.5	5	2
35	80B35NM	11.711	11.156	B	1	3.5	5	2
36	80B36NM	12.03	11.474	B	1	3.5	5	2
37	80B37NM	12.349	11.792	B	1	3.5	5	2
38	80B38NM	12.668	12.11	B	1	4	5.5	2
39	80B39NM	12.987	12.428	B	1	4	5.5	2
40	80B40NM	13.306	12.746	B	1	4	5.5	2
41	80B41NM	13.625	13.063	B	1	4	5.5	2
42	80B42NM	13.944	13.382	B	1	4	5.5	2
43	80B43NM	14.263	13.7	B	1	4	5.5	2
44	80B44NM	14.582	14.018	B	1	4	6	2
45	80B45NM	14.901	14.336	B	1	4	6	2
46	80B46NM	15.219	14.654	B	1	4	6	2
47	80B47NM	15.538	14.972	B	1	4	6	2
48	80B48NM	15.857	15.29	B	1	4	6	2
49	80B49NM	16.176	15.608	B	1	4	6	2
50	80B50NM	16.495	15.926	B	1	4	6	2

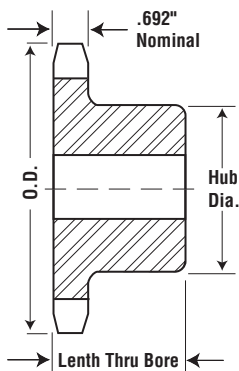
* Has recessed groove for chain clearance.

Notes:

- Standard Material: Natural Nylon.
- Other numbers of teeth and hub styles available.
- Available as stock drilled bore, finished drive bore with keyway and setscrews, or idler bore.
- A Plate and C Style also available.

Available with:

- Stock Bore
- Finished Bore Sizes



TYPE B

Single-Type B — Nylon

Number of Teeth	Catalog Number	Diameter		Type	Bore (in)		Hub (in)	
		Outside	Pitch		Stock	Max	Diameter	LTB
8	100B8NM	3.768	3.266	B	0.75	1	2	1.75
9	100B9NM	4.184	3.655	B	0.75	1	2	1.75
10	100B10NM	4.597	4.045	B	1	2.25	3.25	1.75
11	100B11NM	5.007	4.437	B	1	2.25	3.25	1.75
12	100B12NM	5.415	4.83	B	1	2.25	3.25	1.75
13	100B13NM	5.821	5.223	B	1	2.25	3.25	1.75
14	100B14NM	6.227	5.617	B	1	2.25	3.25	1.75
15	100B15NM	6.631	6.012	B	1	2.5	4	1.75
16	100B16NM	7.034	6.407	B	1	2.5	4	1.75
17	100B17NM	7.437	6.803	B	1	2.5	4	1.75
18	100B18NM	7.839	7.198	B	1	2.5	4	1.75
19	100B19NM	8.241	7.594	B	1	2.5	4	2
20	100B20NM	8.642	7.991	B	1	2.5	4	2
21	100B21NM	9.043	8.387	B	1	3	4.5	2
22	100B22NM	9.444	8.783	B	0.5	3	4.5	2
23	100B23NM	9.844	9.18	B	0.5	3	4.5	2
24	100B24NM	10.245	9.577	B	0.5	3	4.5	2
25	100B25NM	10.645	9.973	B	0.5	3	4.5	2
26	100B26NM	11.045	10.37	B	0.5	3.5	5	2
27	100B27NM	11.444	10.767	B	0.5	3.5	5	2
28	100B28NM	11.844	11.164	B	0.5	3.5	5	2
29	100B29NM	12.244	11.561	B	0.5	3.5	5	2
30	100B30NM	12.643	11.958	B	0.5	3.5	5	2
31	100B31NM	13.043	12.356	B	0.5	4	5.5	2
32	100B32NM	13.441	12.753	B	0.5	4	5.5	2
33	100B33NM	13.841	13.15	B	0.5	4	5.5	2
34	100B34NM	14.24	13.547	B	0.5	4	5.5	2
35	100B35NM	14.639	13.945	B	0.5	4	5.5	2.5
36	100B36NM	15.038	14.342	B	1	4	5.5	2.5
37	100B37NM	15.436	14.74	B	1	4	6	2.5
38	100B38NM	15.835	15.137	B	1	4	6	2.5
39	100B39NM	16.234	15.534	B	1	4	6	2.5
40	100B40NM	16.633	15.932	B	1	4	6	2.5
41	100B41NM	17.031	16.329	B	1	4	6	2.5
42	100B42NM	17.43	16.727	B	1	4	6	2.5
43	100B43NM	17.829	17.124	B	1	4	6	2.5
44	100B44NM	18.228	17.522	B	1	4	6	2.5
45	100B45NM	18.626	17.919	B	1	4	6	2.5
46	100B46NM	19.024	18.317	B	1	4	6	2.5
47	100B47NM	19.423	18.715	B	1	4	6	2.5
48	100B48NM	19.821	19.112	B	1	4	6	2.5
49	100B49NM	20.22	19.51	B	1	4	6	2.5
50	100B50NM	20.619	19.907	B	1	4	6	2.5

Notes:

- Standard Material: Natural Nylon.
- Other numbers of teeth and hub styles available.
- Available as stock drilled bore, finished drive bore with keyway and setscrews, or idler bore.
- A Plate and C Style also available.

Metric Plastic Sprockets

ISO **08B-1**
METRIC **40**

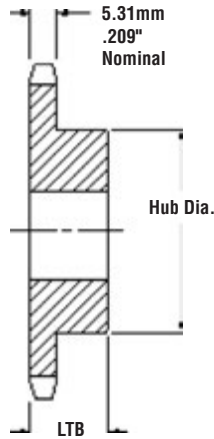
0.500 INCH (12.70mm) PITCH SIMPLEX

CHAIN DATA:

BS 228/7ISO
08B-1PITCH: 12.70mm (0.500 in.)
ROLLER DIAMETER: 8.51mm (0.335 in.)
ROLLER WIDTH: 7.75mm (0.305 in.)
TENSILE: 1820 kilos (4000 lbs.)



TYPE B



Single-Type B — Nylon

Number of Teeth	Catalog Number	Diameter		Type	Bore (mm)		Hub (mm)	
		Outside	Pitch		Stock	Max	Diameter	LTB
11	08B11NM	52.4	45	B	12	20	34.93	22.23
12	08B12NM	56.4	49.1	B	12	25	39.67	22.23
13	08B13NM	60.4	53.1	B	12	25	39.67	22.23
14	08B14NM	64.4	57.1	B	12	25	42.86	22.23
15	08B15NM	68.4	61.1	B	12	30	46.02	22.23
16	08B16NM	72.5	65.1	B	15	35	50.8	22.23
17	08B17NM	76.5	69.1	B	15	40	53.98	25.4
18	08B18NM	80.5	73.1	B	15	40	58.72	25.4
19	08B19NM	84.5	77.2	B	15	45	63.5	25.4
20	08B20NM	88.6	81.2	B	15	45	66.68	25.4
21	08B21NM	92.6	85.2	B	15	45	69.85	25.4
22	08B22NM	96.6	89.2	B	15	45	73.03	25.4
23	08B23NM	100.6	93.3	B	15	50	76.2	25.4
24	08B24NM	104.7	97.3	B	15	50	82.55	25.4
25	08B25NM	108.7	101.3	B	15	55	82.55	25.4
26	08B26NM	112.7	105.3	B	15	55	82.55	25.4
27	08B27NM	116.8	109.4	B	15	55	82.55	25.4
28	08B28NM	120.8	113.4	B	15	55	82.55	25.4
29	08B29NM	124.8	117.5	B	15	55	82.55	25.4
30	08B30NM	128.9	121	B	15	55	82.55	25.4

Notes:

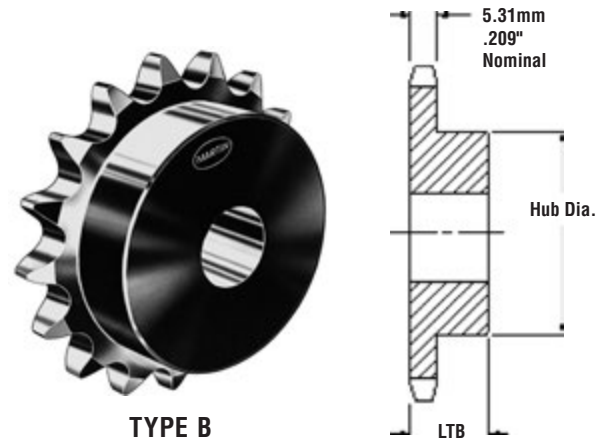
- Standard Material: Natural Nylon.
- Other numbers of teeth and hub styles available.
- Available as stock drilled bore, finished drive bore with keyway and setscrews, or idler bore.
- A Plate and C Style also available.
- Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

0.625 INCH (15.88mm) PITCH SIMPLEX

ISO **10B-1**
METRIC **50**

CHAIN DATA:

BS 228/11ISO 10B-1
PITCH: 15.88mm (0.625 in.)
ROLLER DIAMETER: 10.16mm (0.400 in.)
ROLLER WIDTH: 9.65mm (0.380 in.)
TENSILE: 2270 kilos (4500 lbs.)



Single-Type B — Nylon

Number of Teeth	Catalog Number	Diameter		Type	Bore (mm)		Hub (mm)	
		Outside	Pitch		Stock	Max	Diameter	LTB
11	10B11NM	66	56.4	B	15	25	44.45	25.4
12	10B12NM	71	61.3	B	15	30	50.39	25.4
13	10B13NM	76	66.3	B	15	30	47.63	25.4
14	10B14NM	81	71.3	B	15	35	53.98	25.4
15	10B15NM	86	76.4	B	15	35	60.33	25.4
16	10B16NM	91.1	81.4	B	15	40	63.5	25.4
17	10B17NM	96.1	86.4	B	15	40	68.25	25.4
18	10B18NM	101.1	91.4	B	15	45	73.03	25.4
19	10B19NM	106.1	96.4	B	15	50	76.2	25.4
20	10B20NM	111.2	101.5	B	20	50	76.2	25.4
21	10B21NM	116.2	106.5	B	20	50	76.2	25.4
22	10B22NM	121.2	111.6	B	20	50	76.2	25.4
23	10B23NM	126.3	116.6	B	20	50	76.2	25.4
24	10B24NM	131.3	121.6	B	20	50	76.2	31.75
25	10B25NM	136.3	126.7	B	20	50	76.2	31.75
26	10B26NM	141.4	131.7	B	20	50	76.2	31.75
27	10B27NM	146.4	136.8	B	20	50	76.2	31.75
28	10B28NM	151.5	141.8	B	20	50	76.2	31.75
29	10B29NM	155.49	146.8	B	20	50	76.2	31.75
30	10B30NM	161.6	151.9	B	20	55	82.55	31.75

Notes:

- Standard Material: Natural Nylon.
- Other numbers of teeth and hub styles available.
- Available as stock drilled bore, finished drive bore with keyway and setscrews, or idler bore.
- A Plate and C Style also available.
- Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

Metric Plastic Sprockets

ISO **12B-1**
METRIC **60**

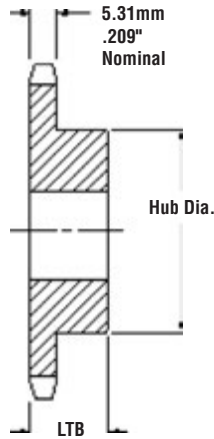
0.750 INCH (19.05mm) PITCH SIMPLEX

CHAIN DATA:

BS 228/13ISO 12B-1
PITCH: 19.05mm (0.750 in.)
ROLLER DIAMETER: 12.07mm (0.475 in.)
ROLLER WIDTH: 11.68mm (0.460 in.)
TENSILE: 2950 kilos (6500 lbs.)



TYPE B



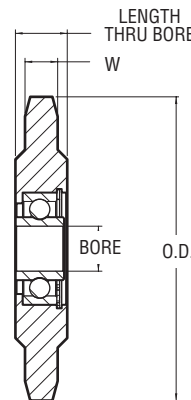
Single-Type B — Nylon

Number of Teeth	Catalog Number	Diameter		Type	Bore (mm)		Hub (mm)	
		Outside	Pitch		Stock	Max	Diameter	LTB
11	12B11NM	79.4	67.64	B	18	30	52.37	31.75
12	12B12NM	85.4	73.61	B	18	35	60.32	31.75
13	12B13NM	91.3	79.6	B	18	35	59.51	31.75
14	12B14NM	97.4	85.6	B	18	40	65.07	31.75
15	12B15NM	103.4	91.6	B	18	45	73.03	31.75
16	12B16NM	109.4	97.6	B	18	50	77.77	31.75
17	12B17NM	115.4	103.7	B	18	55	82.55	31.75
18	12B18NM	121.5	109.7	B	18	60	88.9	31.75
19	12B19NM	127.5	115.7	B	18	60	88.9	31.75
20	12B20NM	133.5	121.8	B	18	65	98.43	31.75
21	12B21NM	139.6	127.9	B	18	70	101.6	31.75
22	12B22NM	145.6	133.9	B	18	70	101.6	31.75
23	12B23NM	151.6	139.9	B	18	70	101.6	31.75
24	12B24NM	157.7	145.9	B	18	70	101.6	31.75
25	12B25NM	163.7	152	B	18	70	101.6	31.75
26	12B26NM	169.8	158	B	18	70	101.6	31.75
27	12B27NM	175.8	164.1	B	18	70	101.6	31.75
28	12B28NM	181.9	170.2	B	18	70	101.6	31.75
29	12B29NM	186.6	176.2	B	18	70	101.6	31.75
30	12B30NM	194	182.2	B	18	70	101.6	31.75

Notes:

- Standard Material: Natural Nylon.
- Other numbers of teeth and hub styles available.
- Available as stock drilled bore, finished drive bore with keyway and setscrews, or idler bore.
- A Plate and C Style also available.
- Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

Non-Metallic Teeth – Ball Bearing Type



Ball Bearing Idler Sprockets — Non Metallic Teeth

No. Teeth	Catalog Number	Bearing Type	Chain Size	O.D	Stock Bore	Length Thru Bore	W	Wt. Lbs.
17	40BB17NM 1/2	Ball	40	2.97	0.510	0.72	0.284	0.24
18	40BB18NM 5/8	Ball	40	3.14	0.638	0.72	0.284	0.23
17	50BB17NM 1/2	Ball	50	3.72	0.510	0.72	0.343	0.29
18	50BB18NM 5/8	Ball	50	3.92	0.638	0.72	0.343	0.29
15	60BB15NM 1/2	Ball	60	3.98	0.510	0.72	0.459	0.32
16	60BB16NM 5/8	Ball	60	4.22	0.638	0.72	0.459	0.33
12	80BB12NM 3/4	Ball	80	4.33	0.750	0.61	0.575	0.44

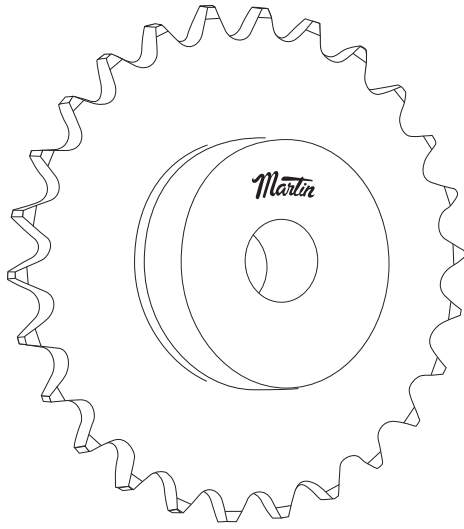
Note: .510 Stock Bore is +.005 .000; .638 Stock Bore Is +.005 .000;
.750 Stock Bore Is +.005 .000

Radial Load Capacity in Pounds at Various Speeds Ball Bearings

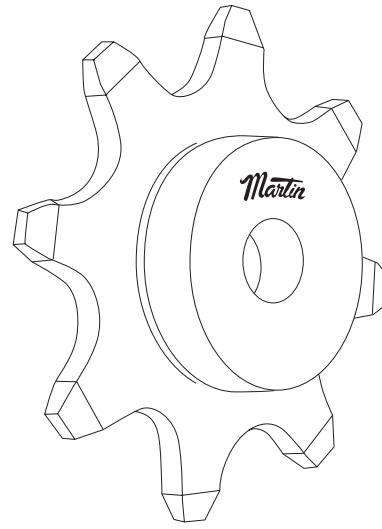
Idler Size	RPM					
	100	500	1000	1500	2000	2500
.375" Bore	620	363	288	252	229	212
.5" & .625" Bore	800	460	360	320	290	270
.75" Bore	1290	755	600	523	478	440

Ratings shown above are based on an average bearing life of 2500 hours.

Double Pitch Plastic Sprockets



**Standard Roller
Double Duty**



**Carrier
Roller**

Double-Pitch Sprockets



Standard Rollers



Carrier Rollers

Series C-2000 chains have rollers of the same diameters and widths as American Standard Roller Chains of one half the conveyor chain pitch. Engaged by every other tooth, double duty sprockets have two teeth per chain pitch. During each revolution only half the teeth function effectively. Sprockets with odd numbers of teeth will allow any given tooth to engage only on every other revolution, automatically increasing sprocket life. Double duty sprockets with even number of teeth may be manually advanced one tooth periodically to increase sprocket life. *Martin* Stock C-2000 series sprockets are furnished double duty only.

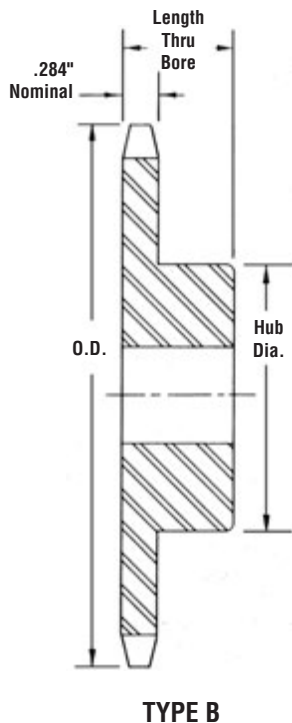
Sprockets for the C-2002 series chain with carrier rollers are cut with space cutters or standard hobs for the American Standard roller Chain of the same diameter. Each sprocket tooth meshes with these chains. Double-duty sprockets cannot be made for double pitch chain with Carrier Rollers.

NOTE: For drives of 31 teeth or more we recommend using Standard sprockets with series C-2000 chains.

All altered double pitch sprockets requiring a keyway will be furnished with keyway on center line of tooth, unless otherwise specified.

Martin manufactures sprockets for double pitch roller chain. Double Pitch Sprockets reduce sprocket contact with the chain by half, engaging every other sprocket tooth. This reduces wear and thus increases sprocket longevity.

The standard material used on *Martin's* non-metallic Double Pitch Sprocket is UHMW. Other materials such as nylon or acetal may be requested. Consult *Martin* for selection assistance when special applications are required.



1-Inch Double-Pitch Conveyor or Drive Series — Standard Roller Double Pitch — 2040/C2040 — Nylon

Number of Teeth	Catalog Number	Diameter		Type	Bore (in)		Hub (in)	
		Outside	Pitch		Stock	Max	Diameter	LTB
11	2040B11NM	1.85	2	B	0.5	0.813	1.375*	0.875
12	2040B12NM	2	2.17	B	0.5	0.813	1.563*	0.875
13	2040B13NM	2.15	2.33	B	0.5	0.656	1.563*	0.875
14	2040B14NM	2.31	2.49	B	0.5	1.031	1.688*	0.875
15	2040B15NM	2.46	2.65	B	0.5	1.219	1.719	0.875
16	2040B16NM	2.61	2.81	B	0.5	1.281	1.875	0.875
17	2040B17NM	2.77	2.98	B	0.5	1.313	2.047	1
18	2040B18NM	2.92	3.14	B	0.5	1.469	2.219	1
19	2040B19NM	3.08	3.3	B	0.5	1.625	2.375	1
20	2040B20NM	3.24	3.46	B	0.5	1.625	2.547	1
21	2040B21NM	3.39	3.62	B	0.5	1.781	2.703	1
22	2040B22NM	3.55	3.78	B	0.5	1.875	2.875	1
23	2040B23NM	3.71	3.94	B	0.5	2	3	1
24	2040B24NM	3.86	4.1	B	0.5	2.25	3.25	1
25	2040B25NM	4.02	4.26	B	0.5	2.25	3.25	1
26	2040B26NM	4.18	4.42	B	0.5	2.25	3.25	1
28	2040B28NM	4.49	4.74	B	0.5	2.25	3.25	1
30	2040B30NM	4.81	5.06	B	0.5	2.25	3.25	1

* Recessed groove in hub for chain clearance.

Conveyor or Drive Series — Carrier Roller Double Pitch — 2042/C2042 — Nylon

Number of Teeth	Catalog Number	Diameter		Type	Bore (in)		Hub (in)	
		Outside	Pitch		Stock	Max	Diameter	LTB
8	2042B8NM	2.61	3.01	B	0.5	1.281	1.875	0.875
9	2042B9NM	2.92	3.35	B	0.5	1.469	2.219	0.875
10	2042B10NM	3.24	3.68	B	0.5	1.75	2.547	1
11	2042B11NM	3.55	4	B	0.5	1.875	2.625	1
12	2042B12NM	3.86	4.33	B	0.5	2.25	3.063	1
13	2042B13NM	4.18	3.66	B	0.5	2.25	3.25	1
14	2042B14NM	4.49	4.98	B	0.5	2.25	3.25	1
15	2042B15NM	4.81	5.3	B	0.5	2.25	3.25	1
16	2042B16NM	5.13	5.63	B	0.5	2.25	3.25	1
17	2042B17NM	5.44	5.95	B	0.5	2.25	3.25	1
18	2042B18NM	5.76	6.27	B	0.5	2.25	3.25	1
19	2042B19NM	6.08	6.59	B	0.5	2.25	3.25	1
20	2042B20NM	6.39	6.91	B	0.5	2.375	3.5	1.125
21	2042B21NM	6.71	7.24	B	0.5	2.375	3.5	1.125
22	2042B22NM	7.01	7.56	B	0.5	2.375	3.5	1.125
23	2042B23NM	7.34	7.88	B	0.5	2.375	3.5	1.125
24	2042B24NM	7.66	8.2	B	0.5	2.375	3.5	1.125
25	2042B25NM	7.98	8.52	B	0.5	2.375	3.5	1.125
26	2042B26NM	8.3	8.84	B	0.5	2.375	3.5	1.125
28	2042B28NM	8.93	9.48	B	0.5	2.375	3.5	1.125
30	2042B30NM	9.57	10.11	B	0.5	2.375	3.5	1.125

* Recessed groove in hub for chain clearance.

• Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

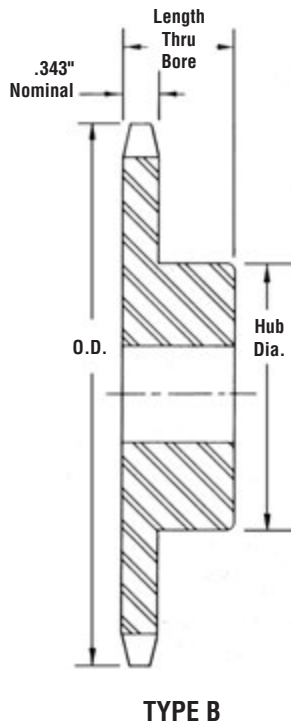
Double Pitch Plastic Sprockets



1¼-Inch Double-Pitch Conveyor or Drive Series — Standard Roller Double Pitch — 2050/C2050 — Nylon

Number of Teeth	Catalog Number	Diameter		Type	Bore (in)		Hub (in)	
		Outside	Pitch		Stock	Max	Diameter	LTB
11	2050B11NM	2.315	2.5	B	0.5	0.813	1.750*	1
12	2050B12NM	2.5	2.71	B	0.5	1	1.984	1
13	2050B13NM	2.69	2.91	B	0.5	1.219	1.719	1
14	2050B14NM	2.881	3.11	B	0.5	1.281	1.938	1
15	2050B15NM	3.073	3.32	B	0.5	1.406	2.156	1
16	2050B16NM	3.266	3.52	B	0.5	1.594	2.359	1
17	2050B17NM	3.46	3.72	B	0.5	1.75	2.563	1
18	2050B18NM	3.655	3.92	B	0.5	1.781	2.781	1
19	2050B19NM	3.85	4.12	B	0.5	1.969	2.984	1
20	2050B20NM	4.045	4.32	B	0.5	2	3	1
21	2050B21NM	4.241	4.52	B	0.5	2	3	1
22	2050B22NM	4.437	4.72	B	0.5	2	3	1
23	2050B23NM	4.633	4.92	B	0.5	2	3	1
24	2050B24NM	4.83	5.12	B	0.5	2	3	1.25
25	2050B25NM	5.026	5.32	B	0.5	2	3	1.25
26	2050B26NM	5.223	5.52	B	0.5	2	3	1.25
28	2050B28NM	5.617	5.92	B	0.5	2	3	1.25
30	2050B30NM	6.012	6.32	B	0.5	2.25	3.25	1.25

* Recessed groove in hub for chain clearance.



Conveyor or Drive Series — Carrier Roller Double Pitch — 2052/C2052 — Nylon

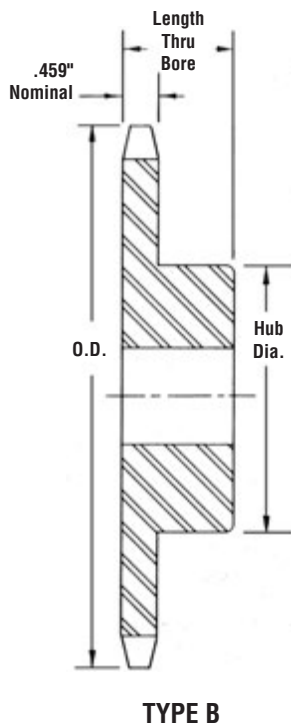
Number of Teeth	Catalog Number	Diameter		Type	Bore (in)		Hub (in)	
		Outside	Pitch		Stock	Max	Diameter	LTB
8	2052B08NM	3.266	3.77	B	0.5	1.594	2.359	1
9	2052B09NM	3.655	4.19	B	0.5	1.781	2.781	1
10	2052B10NM	4.045	4.6	B	0.5	2	3	1
11	2052B11NM	4.437	5.01	B	0.5	2	3	1
12	2052B12NM	4.83	5.42	B	0.5	2	3	1.25
13	2052B13NM	5.223	5.82	B	0.5	2	3	1.25
14	2052B14NM	5.617	6.23	B	0.5	2	3	1.25
15	2052B15NM	6.012	6.63	B	0.5	2.25	3.25	1.25
16	2052B16NM	6.407	7.03	B	0.5	2.25	3.25	1.25
17	2052B17NM	6.803	7.44	B	0.5	2.25	3.25	1.25
18	2052B18NM	7.198	7.84	B	0.5	2.25	3.25	1.25
19	2052B19NM	7.595	8.24	B	0.5	2.25	3.25	1.25
20	2052B20NM	7.991	8.64	B	0.5	2.25	3.25	1.25
21	2052B21NM	8.387	9.04	B	0.5	2.25	3.25	1.25
22	2052B22NM	8.783	9.44	B	0.5	2.25	3.25	1.25
23	2052B23NM	9.18	9.85	B	0.5	2.75	3.75	1.25
24	2052B24NM	9.577	10.25	B	0.5	2.75	3.75	1.25
25	2052B25NM	9.973	10.65	B	0.5	2.75	3.75	1.25
26	2052B26NM	10.37	11.05	B	0.5	2.75	3.75	1.25
28	2052B28NM	11.164	11.84	B	0.5	2.75	3.75	1.25
30	2052B30NM	11.958	12.64	B	0.5	2.75	3.75	1.25

* Recessed groove in hub for chain clearance.

• Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

1½-Inch Double-Pitch Conveyor or Drive Series — Standard Roller Double Pitch — 2060/C2060 — Nylon

Number of Teeth	Catalog Number	Diameter		Type	Bore (in)		Hub (in)	
		Outside	Pitch		Stock	Max	Diameter	LTB
11	2060B11NM	2.773	3	B	0.5	1	2.063*	1.25
12	2060B12NM	3	3.25	B	0.5	1.25	2.375*	1.25
13	2060B13NM	3.228	3.49	B	0.5	1.313	2.078	1.25
14	2060B14NM	3.457	3.74	B	0.5	1.563	2.328	1.25
15	2060B15NM	3.699	3.98	B	0.5	1.75	2.594	1.25
16	2060B16NM	3.92	4.22	B	0.5	1.844	2.844	1.25
17	2060B17NM	4.152	4.46	B	0.5	2.094	3.094	1.25
18	2060B18NM	4.386	4.7	B	0.5	2.281	3.344	1.25
19	2060B19NM	4.62	4.94	B	0.5	2.344	3.5	1.25
20	2060B20NM	4.854	5.19	B	0.5	2.563	3.875	1.25
21	2060B21NM	5.089	5.43	B	0.5	2.75	4	1.25
22	2060B22NM	5.324	5.67	B	0.5	2.75	4	1.25
23	2060B23NM	5.56	5.91	B	0.5	2.75	4	1.25
24	2060B24NM	5.796	6.15	B	0.5	2.75	4	1.25
25	2060B25NM	6.032	6.39	B	0.5	2.75	4	1.25
26	2060B26NM	6.268	6.63	B	0.5	2.75	4	1.25
28	2060B28NM	6.741	7.11	B	0.5	2.75	4	1.25
30	2060B30NM	7.215	7.59	B	0.5	2.75	4	1.25



* Recessed groove in hub for chain clearance.

Conveyor or Drive Series — Carrier Roller Double Pitch — 2062/C2062 — Nylon

Number of Teeth	Catalog Number	Diameter		Type	Bore (in)		Hub (in)	
		Outside	Pitch		Stock	Max	Diameter	LTB
8	2062B08NM	3.92	4.52	B	0.5	1.844	2.844	1.25
9	2062B09NM	4.386	5.02	B	0.5	2.281	3.344	1.25
10	2062B10NM	4.854	5.52	B	0.5	2.563	3.828	1.25
11	2062B11NM	5.324	6.01	B	0.5	2.75	4	1.25
12	2062B12NM	5.796	6.5	B	0.5	2.75	4	1.25
13	2062B13NM	6.268	6.99	B	0.5	2.75	4	1.25
14	2062B14NM	6.741	7.47	B	0.5	2.75	4	1.25
15	2062B15NM	7.215	7.96	B	0.5	2.25	4	1.25
16	2062B16NM	7.689	8.44	B	0.5	2.25	4	1.25
17	2062B17NM	8.163	8.92	B	0.5	2.25	4	1.25
18	2062B18NM	8.638	9.41	B	0.5	2.25	4	1.25
19	2062B19NM	9.113	9.89	B	0.5	2.25	4.25	1.25
20	2062B20NM	9.589	10.37	B	0.5	2.25	4.25	1.25
21	2062B21NM	10.064	10.85	B	0.5	2.25	4.25	1.25
22	2062B22NM	10.54	11.33	B	0.5	2.25	4.25	1.25
23	2062B23NM	11.016	11.81	B	0.5	2.75	4.25	1.25
24	2062B24NM	11.492	12.29	B	0.5	2.75	4.25	1.25
25	2062B25NM	11.968	12.77	B	0.5	2.75	4.25	1.25
26	2062B26NM	12.444	13.25	B	0.5	2.75	4.25	1.75
28	2062B28NM	13.397	14.21	B	0.5	2.75	4.25	1.75
30	2062B30NM	14.35	15.17	B	0.5	2.75	4.25	1.75

* Recessed groove in hub for chain clearance.

• Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

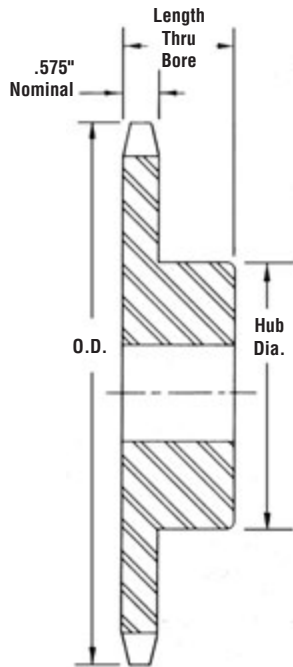
Double Pitch Plastic Sprockets



2-Inch Double-Pitch Conveyor or Drive Series — Standard Roller Double Pitch — 2080/C2080 — Nylon

Number of Teeth	Catalog Number	Diameter		Type	Bore (in)		Hub (in)	
		Outside	Pitch		Stock	Max	Diameter	LTB
11	2080B11NM	3.694	4.01	B	0.5	1.5	2.813*	1.625
12	2080B12NM	4	4.33	B	0.5	1.688	3.125*	1.625
13	2080B13NM	4.304	4.66	B	0.5	1.781	2.75	1.5
14	2080B14NM	4.61	4.98	B	0.5	2.125	3.125	1.5
15	2080B15NM	4.917	5.3	B	0.5	2.281	3.438	1.5
16	2080B16NM	5.226	5.63	B	0.5	2.531	3.75	1.5
17	2080B17NM	5.53	5.95	B	0.5	2.75	4	1.5
18	2080B18NM	5.848	6.27	B	0.5	2.75	4.25	1.5
19	2080B19NM	6.16	6.59	B	0.5	2.75	4.25	1.5
20	2080B20NM	6.472	6.91	B	0.5	2.75	4.25	1.5
21	2080B21NM	6.785	7.23	B	0.5	2.75	4.25	1.5
22	2080B22NM	7.099	7.56	B	0.5	2.75	4.25	1.75
23	2080B23NM	7.413	7.88	B	0.5	2.75	4.25	1.75
24	2080B24NM	7.727	8.2	B	0.5	2.75	4.25	1.75
25	2080B25NM	8.042	8.52	B	0.5	2.75	4.25	1.75
26	2080B26NM	8.357	8.84	B	0.5	3.25	4.75	2
28	2080B28NM	8.988	9.48	B	0.5	3.25	4.75	2
30	2080B30NM	9.62	10.11	B	0.5	3.25	4.75	2

* Recessed groove in hub for chain clearance.



TYPE B

Conveyor or Drive Series — Carrier Roller Double Pitch — 2082/C2082 — Nylon

Number of Teeth	Catalog Number	Diameter		Type	Bore (in)		Hub (in)	
		Outside	Pitch		Stock	Max	Diameter	LTB
8	2082B08NM	5.226	6.03	B	0.5	2.531	3.75	1.75
9	2082B09NM	5.848	6.7	B	0.5	2.75	4.25	1.75
10	2082B10NM	6.472	7.36	B	0.5	2.75	4.25	1.75
11	2082B11NM	7.099	8.01	B	0.5	2.75	4.25	1.75
12	2082B12NM	7.727	8.66	B	0.5	2.75	4.25	1.75
13	2082B13NM	8.357	9.31	B	0.5	2.75	4.75	2
14	2082B14NM	8.988	9.96	B	0.5	2.75	4.75	2
15	2082B15NM	9.62	10.61	B	0.5	2.75	4.75	2
16	2082B16NM	10.252	11.25	B	0.5	2.75	4.75	2
17	2082B17NM	10.885	11.9	B	0.5	2.75	4.75	2
18	2082B18NM	11.518	12.54	B	0.5	2.75	4.75	2
19	2082B19NM	12.151	13.19	B	0.5	2.75	4.75	2
20	2082B20NM	12.785	13.83	B	0.5	2.75	4.75	2
21	2082B21NM	13.419	14.47	B	0.5	2.75	4.75	2
22	2082B22NM	14.053	15.11	B	0.5	2.75	4.75	2
23	2082B23NM	14.688	15.75	B	0.5	2.75	4.75	2
24	2082B24NM	15.323	16.39	B	0.5	2.75	4.75	2
25	2082B25NM	15.958	17.03	B	0.5	2.75	4.75	2
26	2082B26NM	16.593	17.67	B	0.5	3.5	5.25	2
28	2082B28NM	17.863	18.95	B	0.5	3.5	5.25	2
30	2082B30NM	19.134	20.23	B	0.5	3.5	5.25	2

* Recessed groove in hub for chain clearance.

• Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

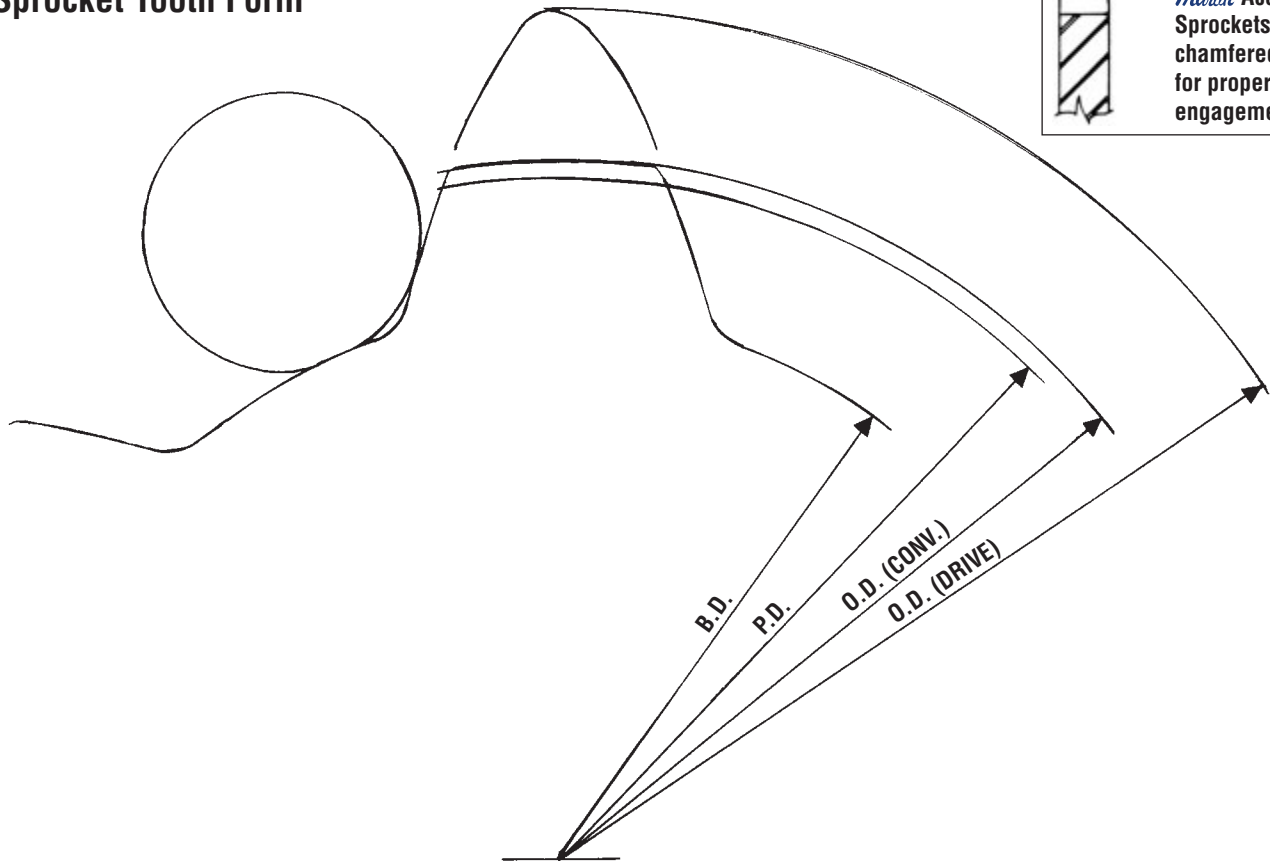


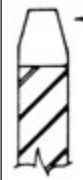
Conveyor Style Tooth for Chains:
78 — 82 — 124 — 132



Driver Style Tooth for Chains:
55 — 1030

Typical “Drive” & “Conveyor” Sprocket Tooth Form



 NOTE: All *Martin* Accu-Torch Sprockets have chamfered teeth for proper chain engagement.

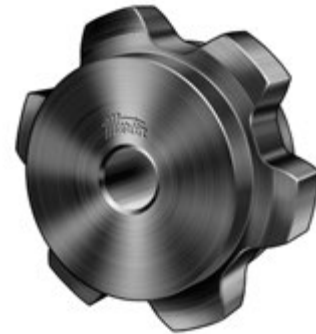
Mill Duty Sprockets are not intended to replace cut tooth roller chain sprockets.

Mill Duty Plastic Sprockets



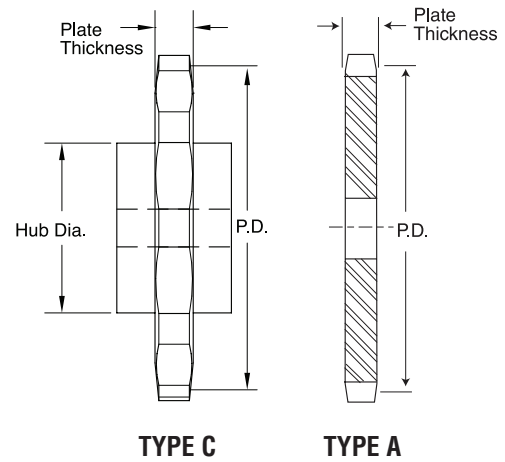
Mill Duty (also known as Agricultural Chain or AG Chain) Sprockets are machined from UHMW. These non-metallic sprockets are lighter in weight than standard steel sprockets. Non-metallic sprockets are also corrosion resistant, require little or no lubrication, and are generally more durable than traditional steel sprockets.

Martin offers Mill Duty Sprockets in all popular sizes as well as custom made-to-order sprockets. Standard sizes include 55 Series, 78 Series, 82 Series, and 132 Series. Sprockets can be manufactured in A, B, C. & D styles, as well as Split and special sprockets styles.



Sprockets Available to fit Standard Chain Sizes

25	95R	WD-120	458	CS730	D963R
32	102B	H121	468	823	E963R
42	H102	SD121	WD-480	825	F963R
45	102.5	WD-122	483	830	998
S51	103	WD-123	520	844	1030
51	H104	WD-124	531	856	1036
52	W-106	130	625R	859	1113
55	S-110	132	667	F912R	1120
D60	WD-110	183	678	E922	1131
62	111SP	188	698	F922	F1222
67	111	194	CS720S	925R	2124
78	WD-112	196	720S	933	2180
W-78	WD-116	197	730	951	4850
94R	WD-119	348	A730	B963R	9250



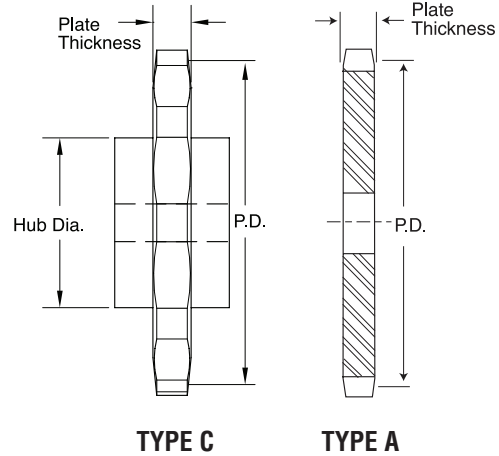
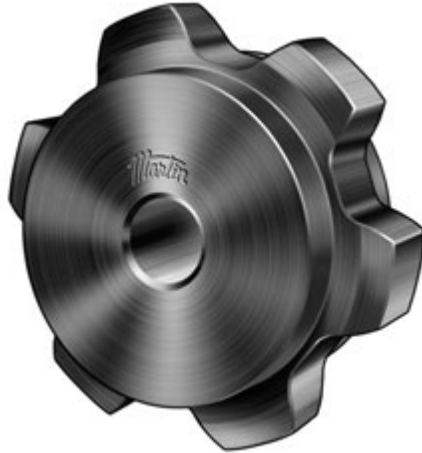
55 SERIES PLASTIC SPROCKETS FOR CHAINS: C55, CA550, CA555, 55, 16D

Type C — 1.631" Pitch

PLATE THICKNESS 0.625"
ROLLER DIAMETER 0.7187"

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Type	Stock Bore	Max. Bore	Hub Diameter	LTB	Catalog Number	Type	Stock Bore
6	55C6NM	3.26	C	0.5	1	1.75	1.75	55A6NM	A	0.5
7	55C7NM	3.76	C	0.5	1	2	1.75	55A7NM	A	0.5
8	55C8NM	4.26	C	0.5	1.25	2.75	2	55A8NM	A	0.5
9	55C9NM	4.77	C	0.5	1.5	3	2.625	55A9NM	A	0.5
10	55C10NM	5.28	C	0.5	2	3.5	2	55A10NM	A	0.5
11	55C11NM	5.79	C	1	2.5	4	2.625	55A11NM	A	1
12	55C12NM	6.3	C	1	2.5	4	2.688	55A12NM	A	1
13	55C13NM	6.82	C	1	2.5	4	2.688	55A13NM	A	1
14	55C14NM	7.33	C	1	2.5	4	2.625	55A14NM	A	1
15	55C15NM	7.84	C	1	2.5	4	2.625	55A15NM	A	1
16	55C16NM	8.36	C	1	2.5	4	2.625	55A16NM	A	1
17	55C17NM	8.88	C	1	3	4.5	2.625	55A17NM	A	1
18	55C18NM	9.39	C	1	3	4.5	2.625	55A18NM	A	1
19	55C19NM	9.9	C	1	3	4.5	2.625	55A19NM	A	1
20	55C20NM	10.43	C	1	3.5	5	3.188	55A20NM	A	1
21	55C21NM	10.94	C	1	3.5	5	3.125	55A21NM	A	1
22	55C22NM	11.43	C	1	3.5	5	3.188	55A22NM	A	1
23	55C23NM	11.97	C	1	3.5	5	3.188	55A23NM	A	1
24	55C24NM	12.5	C	1	3.5	5	3.188	55A24NM	A	1



78

SERIES PLASTIC SPROCKETS FOR CHAINS: 78, H74, 75, H75, H78, H78LR, (14, 18 TEETH ONLY), H78RT, H78SR, H79, 88, 188, S188, S78, R588, RR588, R778, RR778, 988, IS880, 87R, IS881, 81X, IS882, 433½, LXS881, LXS886, US881, LXS887, LXS882, 488, XS578, SS188, C188, US278R, US882, 578R, 588R

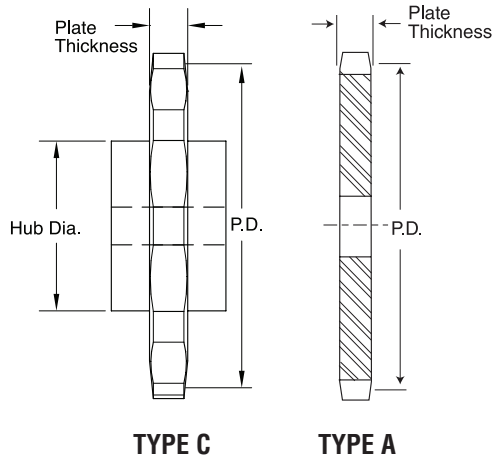
Type C — 2.609" Pitch

PLATE THICKNESS 0.875"
ROLLER DIAMETER 0.875"

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Type	Stock Bore	Max. Bore	Hub Diameter	LTB	Catalog Number	Type	Stock Bore
6	78C6NM	5.22	C	0.75	1.25	3.39	2	78A6NM	A	0.5
7	78C7NM	6.01	C	1	1.25	3.5	2	78A7NM	A	0.5
8	78C8NM	6.82	C	1	2	4	3.75	78A8NM	A	0.5
9	78C9NM	7.63	C	1	2	4	3.75	78A9NM	A	0.5
10	78C10NM	8.44	C	1	2.5	4.5	3.75	78A10NM	A	0.5
11	78C11NM	9.26	C	1	2.5	4.5	3.75	78A11NM	A	0.5
12	78C12NM	10.08	C	1	3	5	3.75	78A12NM	A	0.5
13	78C13NM	10.9	C	1	3	5	3.75	78A13NM	A	0.5
14	78C14NM	11.72	C	1	3	5	3.75	78A14NM	A	0.5
15	78C15NM	12.55	C	1	3.5	5.5	3.75	78A15NM	A	0.5
16	78C16NM	13.37	C	1	3.5	5.5	3.75	78A16NM	A	0.5
17	78C17NM	14.2	C	1	3.5	6	3.75	78A17NM	A	0.5
19	78C19NM	15.85	C	1	3.5	6	3.75	78A19NM	A	0.5
21	78C21NM	17.51	C	1	3.5	6	3.75	78A21NM	A	0.5
24	78C24NM	19.99	C	1	3.5	7	3.875	78A24NM	A	0.5
25	78C25NM	20.82	C	1	4	7	3.875	78A25NM	A	0.5
28	78C28NM	23.3	C	1	4	7	3.875	78A28NM	A	0.5
30	78C30NM	24.96	C	1	4	9	3.875	78A30NM	A	0.5
35	78C35NM	29.11	C	1	5	9	4.875	78A35NM	A	0.5
40	78C40NM	33.25	C	1	5	9	3.75	78A40NM	A	0.5
42	78C42NM	34.91	C	1	5	9	4.875	78A42NM	A	0.5
46	78C46NM	38.23	C	1	5	9	3.75	78A46NM	A	0.5

Mill Duty Plastic Sprockets – Split

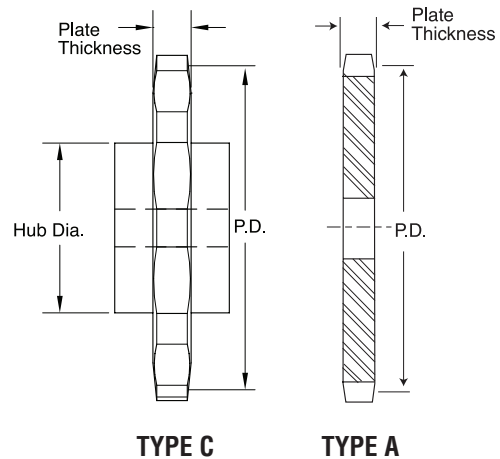


78 **SERIES PLASTIC SPROCKETS FOR CHAINS:** 78, H74, 75, H75, H78, H78LR, (14, 18 TEETH ONLY), H78RT, H78SR, H79, 88, 188, S188, S78, R588, RR588, R778, RR778, 988, IS880, 87R, IS881, 81X, IS882, 433½, LXS881, LXS886, US881, LXS887, LXS882, 488, XS578, SS188, C188, US278R, US882, 578R, 588R

Type C — 2.609" Pitch

PLATE THICKNESS 0.875"
ROLLER DIAMETER 0.875"

Number of Teeth	Catalog Number	Pitch Diameter	Type	Stock Bore	Max. Bore	Hub Diameter	LTB
6	78C6NMS	5.22	C	1	1.5	3.39	2.875
7	78C7NMS	6.01	C	1	2	4	2.875
8	78C8NMS	6.82	C	1	2	4	2.875
9	78C9NMS	7.63	C	1	2.125	5	2.875
10	78C10NMS	8.44	C	1	2.75	5	2.875
11	78C11NMS	9.26	C	1	2.75	5	2.875
12	78C12NMS	10.08	C	1	2.75	5	2.875
13	78C13NMS	10.09	C	1	2.75	5	2.875
14	78C14NMS	11.72	C	1	2.75	5	2.875
15	78C15NMS	12.55	C	1	2.75	5	2.875
16	78C16NMS	13.37	C	1	4	7	3.75
17	78C17NMS	14.2	C	1	4	7	3.875
18	78C18NMS	15.02	C	1	4	7	3.875
19	78C19NMS	15.85	C	1	4	7	3.875
21	78C21NMS	17.51	C	1.75	4.5	8.875	3.875
22	78C22NMS	18.33	C	1.75	4.5	8.875	3.875
24	78C24NMS	19.99	C	1.75	4.5	8.875	3.781
25	78C25NMS	20.82	C	1.75	4.5	8.875	3.875
27	78C27NMS	22.47	C	1.75	4.5	8.875	3.875
28	78C28NMS	23.3	C	1.75	4.5	8.875	3.875
30	78C30NMS	24.96	C	1.75	4.5	8.875	3.875
34	78C34NMS	28.28	C	1.75	4.5	8.875	3.875
40	78C40NMS	33.25	C	1.75	4.5	8.875	3.875
45	78C45NMS	37.4	C	1.75	6.5	12	3.875



78

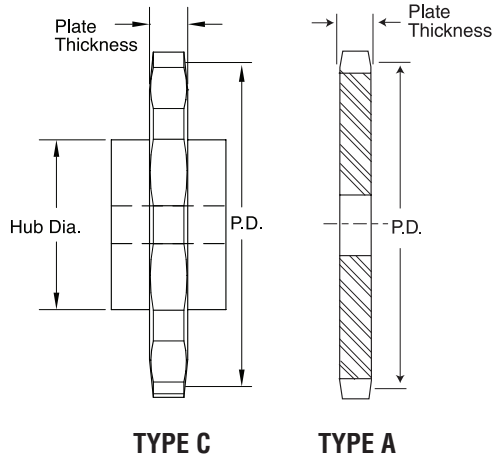
SERIES PLASTIC SPROCKETS FOR CHAINS: 78, H74, 75, H75, H78, H78LR, (14, 18 TEETH ONLY), H78RT, H78SR, H79, 88, 188, S188, S78, R588, RR588, R778, RR778, 988, IS880, 87R, IS881, 81X, IS882, 433½, LXS881, LXS886, US881, LXS887, LXS882, 488, XS578, SS188, C188, US278R, US882, 578R, 588R

Type C — 2.609" Pitch

PLATE THICKNESS 0.875"
ROLLER DIAMETER 0.875"

Number of Teeth	Catalog Number	Pitch Diameter	Type	Stock Bore	Max. Bore	Hub Diameter	LTB
4	78CS4NM	3.69	C	0.5	0.75	1.48	2
5	78CS5NM	4.44	C	0.75	1	2.46	2
6	78CS6NM	5.22	C	0.75	1.25	3.39	2
7	78CS7NM	6.01	C	0.75	1.75	4.29	2
8	78CS8NM	6.82	C	0.75	2.5	5.17	2
9	78CS9NM	7.63	C	0.75	3	6.04	2

Mill Duty Plastic Sprockets



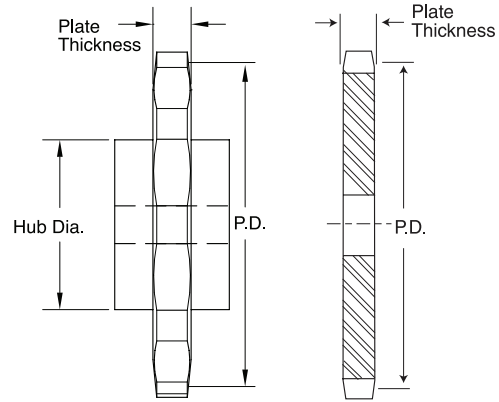
82 SERIES PLASTIC SPROCKETS FOR CHAINS: H82, 131, 527R, 4103, WH82, S131, 527RX, C131, WR82, WS62, C9103, 382, 103 —SS131 —6131

Type C — 3.075" Pitch

PLATE THICKNESS 1"
ROLLER DIAMETER 1.2187"

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Type	Stock Bore	Max. Bore	Hub Diameter	LTB	Catalog Number	Type	Stock Bore
7	82C7NM	7.09	C	1	2.5	4	3.75	82A7NM	A	1
8	82C8NM	8.04	C	1	3	4.5	3.75	82A8NM	A	1
9	82C9NM	8.99	C	1	3	4.5	3.75	82A9NM	A	1
10	82C10NM	9.95	C	1	3	4.5	3.75	82A10NM	A	1
11	82C11NM	10.91	C	1	3.5	5	3.75	82A11NM	A	1
12	82C12NM	11.88	C	1	3.5	5	3.75	82A12NM	A	1
13	82C13NM	12.85	C	1	4	5	3.75	82A13NM	A	1
14	82C14NM	13.82	C	1	4	5.5	3.75	82A14NM	A	1
15	82C15NM	14.79	C	1	4	6	3.75	82A15NM	A	1
16	82C16NM	15.76	C	1	4	6	3.75	82A16NM	A	1
17	82C17NM	16.73	C	1	4	6	3.75	82A17NM	A	1
18	82C18NM	17.71	C	1	4	6	3.75	82A18NM	A	1



TYPE C

TYPE A

1030 SERIES PLASTIC SPROCKETS FOR CHAINS: 1030, CHAMPIONNO.3, R1033, R1035, 1037, 1539, SS40, LXS1031, API3, LXS1032, SS40Hyp, IS1030, IS1031, IS1032, IS1037, US1031, 1190, SXX, 1190R, US1032

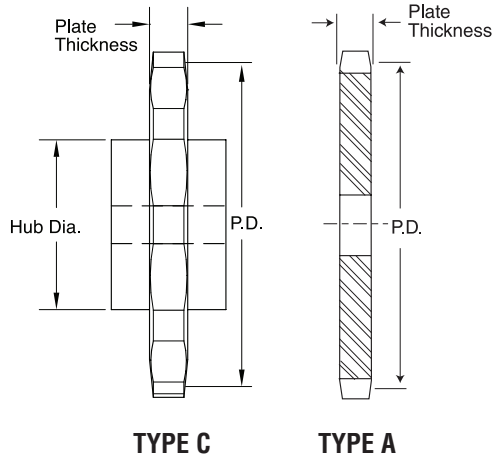
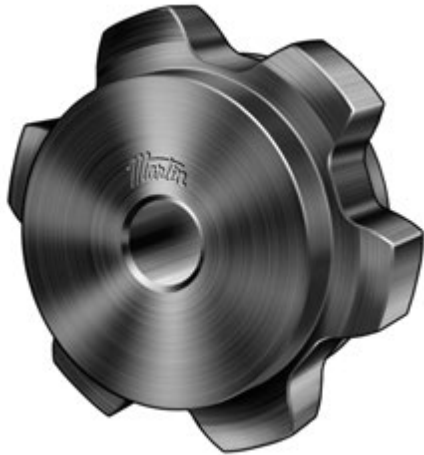
Type C — 3.075" Pitch

PLATE THICKNESS 1.25"
ROLLER DIAMETER 1.25"

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Type	Stock Bore	Max. Bore	Hub Diameter	LTB	Catalog Number	Type	Stock Bore
8	1030C8NM	8.04	C	1	3	4.5	3.75	1030A8NM	A	1
9	1030C9NM	8.99	C	1	3	4.5	3.75	1030A9NM	A	1
10	1030C10NM	9.95	C	1	3	4.5	3.75	1030A10NM	A	1
11	1030C11NM	10.91	C	1	3.5	5	3.75	1030A11NM	A	1
12	1030C12NM	11.88	C	1	3.5	5	3.75	1030A12NM	A	1
13	1030C13NM	12.85	C	1	4	5.5	3.75	1030A13NM	A	1
15	1030C15NM	14.79	C	1	4	6	3.75	1030A15NM	A	1
17	1030C17NM	16.73	C	1	4	6	3.75	1030A17NM	A	1
19	1030C19NM	18.68	C	1	4	6	3.75	1030A19NM	A	1
21	1030C21NM	20.63	C	1	5	7	3.75	1030A21NM	A	1
24	1030C24NM	23.56	C	1	5	7	3.75	1030A24NM	A	1
25	1030C25NM	24.53	C	1	5	7	3.75	1030A25NM	A	1
28	1030C28NM	27.46	C	1	6	8	3.75	1030A28NM	A	1
30	1030C30NM	29.42	C	1	6	8	3.75	1030A30NM	A	1
35	1030C35NM	34.3	C	1	6	8	3.75	1030A35NM	A	1
40	1030C40NM	39.19	C	1	6	9	3.75	1030A40NM	A	1

Mill Duty Plastic Sprockets



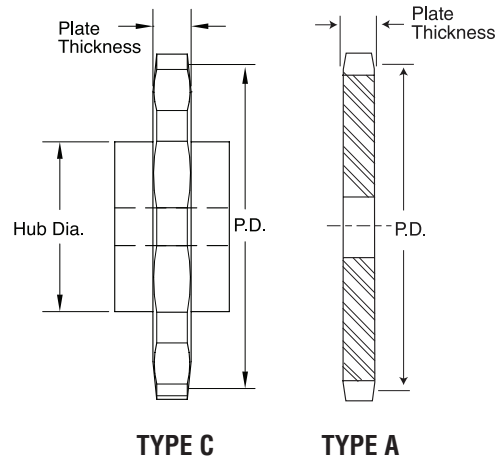
124 SERIES PLASTIC SPROCKETS FOR CHAINS: H124, W124, WS124, WR124, WH124

Type C — 4.000" Pitch

PLATE THICKNESS 1.5"
ROLLER DIAMETER 1.5"

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Type	Stock Bore	Max. Bore	Hub Diameter	LTB	Catalog Number	Type	Stock Bore
6	124C6NM	8	C	1	3	4.5	3.75	124A6NM	A	1
7	124C7NM	9.22	C	1	3	5.75	4.5	124A7NM	A	1
8	124C8NM	10.45	C	1	3.5	5	4	124A8NM	A	1
9	124C9NM	11.7	C	1	3.5	5.75	4.5	124A9NM	A	1
10	124C10NM	12.94	C	1	4	5.75	4.5	124A10NM	A	1
11	124C11NM	14.2	C	1	4	6	4.5	124A11NM	A	1
12	124C12NM	15.45	C	1	4	6	4.5	124A12NM	A	1
13	124C13NM	16.71	C	1	4	6	4.5	124A13NM	A	1
14	124C14NM	17.98	C	1	4	7	4.5	124A14NM	A	1
15	124C15NM	19.24	C	1	4	6	4.5	124A15NM	A	1
16	124C16NM	20.5	C	1	5	7	4.5	124A16NM	A	1



132 SERIES PLASTIC SPROCKETS FOR CHAINS: C132, A132, A132WS, WS132, C132M, C132W, SX150, SXA150, 150X, 6150, W157, WH157, WR157

Type C — 6.050" Pitch

PLATE THICKNESS 2.75"
ROLLER DIAMETER 1.7187"

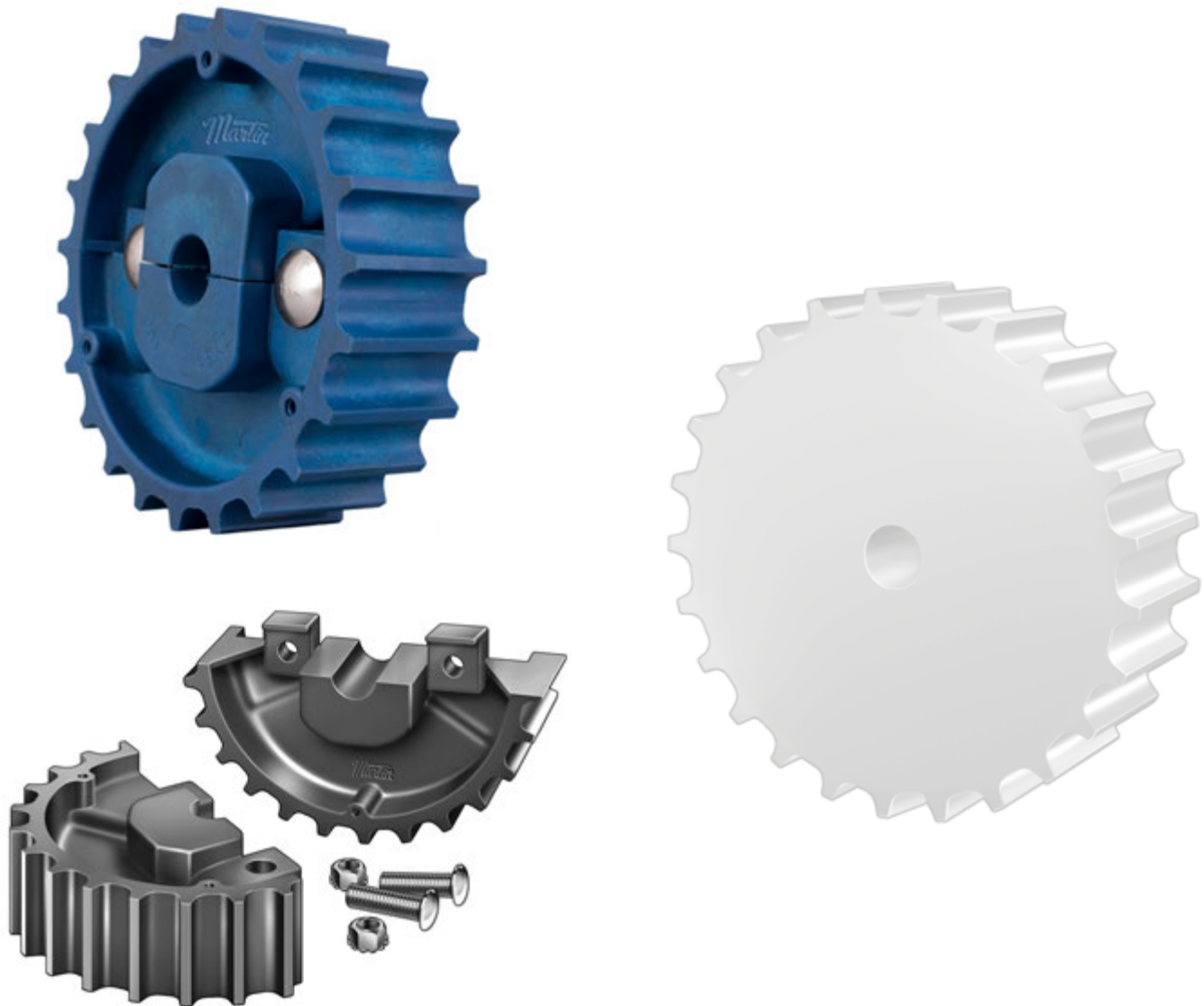
Type A

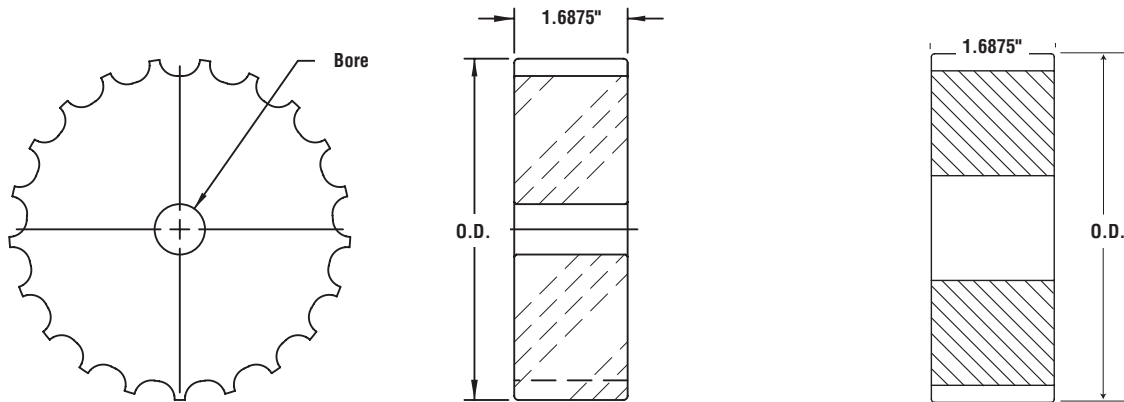
Number of Teeth	Catalog Number	Pitch Diameter	Type	Stock Bore	Max. Bore	Hub Diameter	LTB	Catalog Number	Type	Stock Bore
6	132C6NM	12.1	C	1	3	6.5	6	132A6NM	A	1
7	132C7NM	13.94	C	1	3	6.5	6	132A7NM	A	1
8	132C8NM	15.81	C	1	3	7	5.75	132A8NM	A	1
9	132C9NM	17.69	C	1	3	9	6.75	132A9NM	A	1
10	132C10NM	19.58	C	1	3.75	9	6.75	132A10NM	A	1
11	132C11NM	21.47	C	1	3.75	9	6.75	132A11NM	A	1
12	132C12NM	23.38	C	1	3.75	9	6.75	132A12NM	A	1

Plastic Flat-Top Conveyor Sprockets

Martin

Martin manufactures Flat Top Conveyor Sprockets from USDA / FDA grade UHMW and thermoplastics. These sprockets are completely interchangeable with cast, steel, or other types of plastic sprockets. *Martin's* Non-metallic Flat Top Conveyor Sprockets are lightweight, chemical resistant, and require no lubrication. They are designed for use with both steel and plastic chain. Most popular sizes and styles are available. For special applications, *Martin* offers quick turnaround times on custom orders.





Series 815 Sprocket

Solid Face

Series 815 Sprocket — UHMW

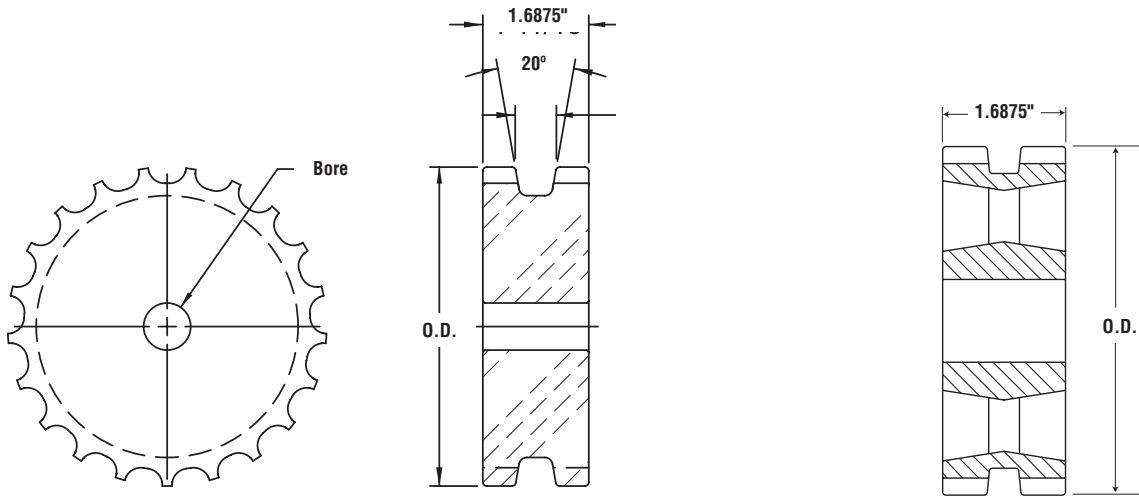
Catalog Number	No. of Teeth		Pitch Diameter	Outside Diameter	Bore (in)	
	Actual	Effective			Stock	Max
815A19NM	19	9.5	4.62	4.61	0.75	1.25
815A20NM	20	10	4.854	4.86	0.75	1.25
815A21NM	21	10.5	5.089	5.12	0.75	1.75
815A22NM	22	11	5.324	5.35	0.75	1.75
815A23NM	23	11.5	5.56	5.59	0.75	1.75
815A24NM	24	12	5.796	5.83	0.75	2
815A25NM	25	12.5	6.032	6.07	0.75	2
815A27NM	27	13.5	6.504	6.56	0.75	2
815A29NM	29	14.5	6.978	7.05	0.75	2.5
815A31NM	31	15.5	7.452	7.53	0.75	2.5
815A41NM	41	20.5	9.826	9.93	0.75	2.5

Series 815 — Split Thermoplastic

Catalog Number	No. of Teeth		Pitch Diameter	Outside Diameter	Bore (in)		Weight
	Actual	Effective			Stock	Max	
QRS815A21P	21	10.5	5.089 (129.26)	5.12 (130)	0.75 (19.1)	1.5 (38.1)	0.94 (0.43)
QRS815A23P	23	11.5	5.560 (141.22)	5.59 (142)	0.75 (19.1)	1.5 (38.1)	1 (0.45)
QRS815A25P	25	12.5	6.032 (153.21)	6.07 (154.2)	0.75 (19.1)	1.5 (38.1)	1.1 (0.5)
QRS815A27P	27	13.5	6.504 (165.20)	6.56 (166.6)	0.75 (19.1)	1.5 (38.1)	1.25 (0.57)

Thermoplastic temperature operating range -20°F to +300°F
 • NOTE: Supplied with 5/16-18 plated setscrew @ 90° to split.

Plastic Flat-Top Conveyor Sprockets



Series 820 Sprocket

Grooved Face

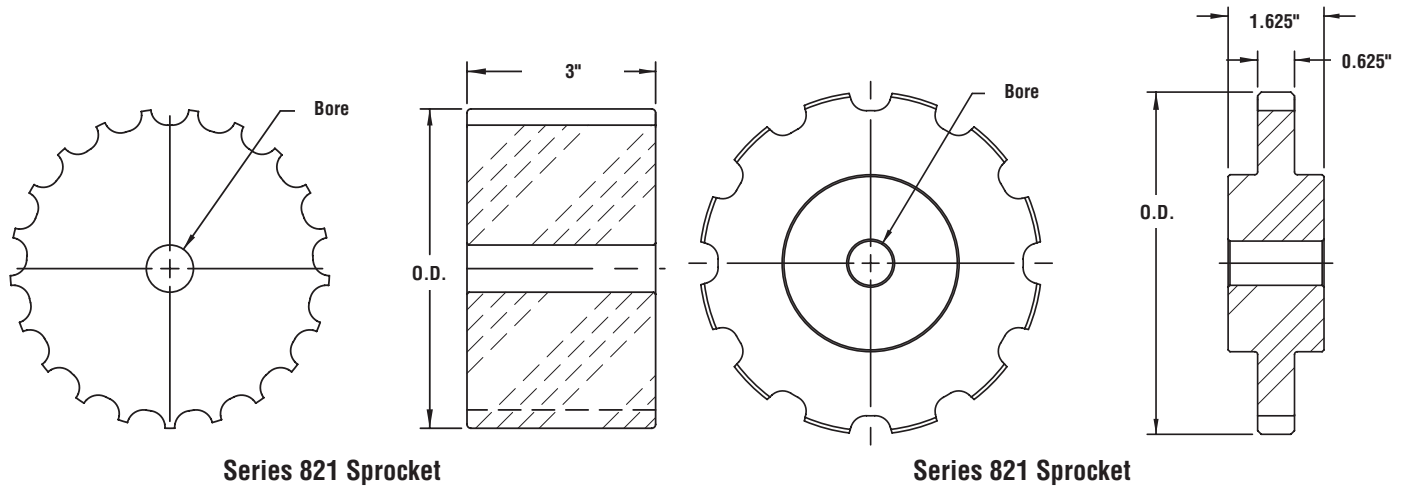
Series 820 Sprocket — UHMW

Catalog Number	No. of Teeth		Pitch Diameter	Outside Diameter	Bore (in)	
	Actual	Effective			Stock	Max
820A19NM	19	9.5	4.62	4.61	0.75	1.25
820A20NM	20	10	4.854	4.86	0.75	1.25
820A21NM	21	10.5	5.089	5.12	0.75	1.75
820A22NM	22	11	5.324	5.35	0.75	1.75
820A23NM	23	11.5	5.56	5.59	0.75	1.75
820A24NM	24	12	5.796	5.83	0.75	2
820A25NM	25	12.5	6.032	6.07	0.75	2
820A27NM	27	13.5	6.504	6.56	0.75	2
820A29NM	29	14.5	6.978	7.05	0.75	2.5
820A31NM	31	15.5	7.452	7.53	0.75	2.5
820A41NM	41	20.5	9.826	9.93	0.75	2.5

Series 820 — Split Thermoplastic

Catalog Number	No. of Teeth		Pitch Diameter	Outside Diameter	Bore (in)		Weight
	Actual	Effective			Stock	Max	
QRS820A21P	21	10.5	5.089 (129.26)	5.12 (130.0)	0.75 (19.1)	1.5 (38.1)	.94 (.43)
QRS820A23P	23	11.5	5.560 (141.22)	5.59 (142.0)	0.75 (19.1)	1.5 (38.1)	1.00 (.45)
QRS820A25P	25	12.5	6.032 (153.21)	6.07 (154.2)	0.75 (19.1)	1.5 (38.1)	1.10 (.50)
QRS820A27P	27	13.5	6.504 (165.20)	6.56 (166.6)	0.75 (19.1)	1.5 (38.1)	1.25 (.57)

Thermoplastic temperature operating range -20°F to +300°F
 • NOTE: Supplied with 5/16-18 plated setscrew @ 90° to split.



Series 821 Sprocket

Series 821 Sprocket

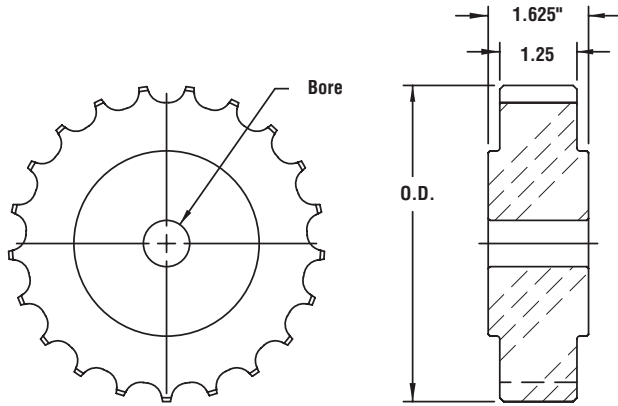
Series 821 Sprocket — UHMW

Catalog Number	No. of Teeth		Pitch Diameter	Outside Diameter	Bore (in)	
	Actual	Effective			Stock	Max
821A21NM	21	10.5	5.089	5.12	0.75	1.75
821A23NM	23	11.5	5.56	5.59	0.75	1.75
821A25NM	25	12.5	6.032	6.07	0.75	2
821A27NM	27	13.5	6.504	6.56	0.75	2
821A29NM	29	14.5	6.978	7.05	0.75	2.5

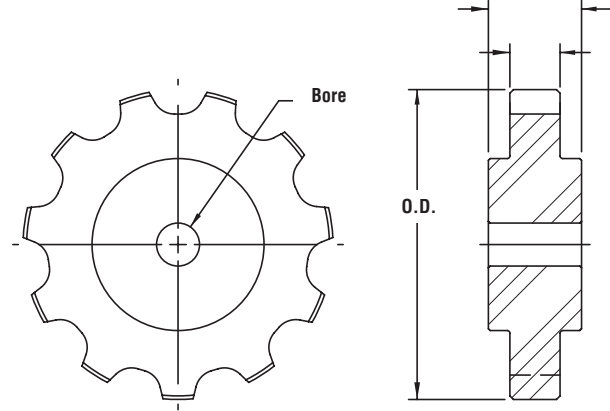
Series 880 Sprocket — UHMW

Catalog Number	No. of Teeth		Pitch Diameter	Outside Diameter	Bore (in)	
	Actual	Effective			Stock	Max
880C9NM	9	9	4.386	4.33	0.75	1.75
880C10NM	10	10	4.854	4.82	0.75	1.75
880C11NM	11	11	5.325	5.31	0.75	1.75
880C12NM	12	12	5.796	5.8	0.75	1.75
880C15NM	15	15	7.215	7.26	0.75	1.75

Natural Nylon Sprockets



Series 881 Sprocket



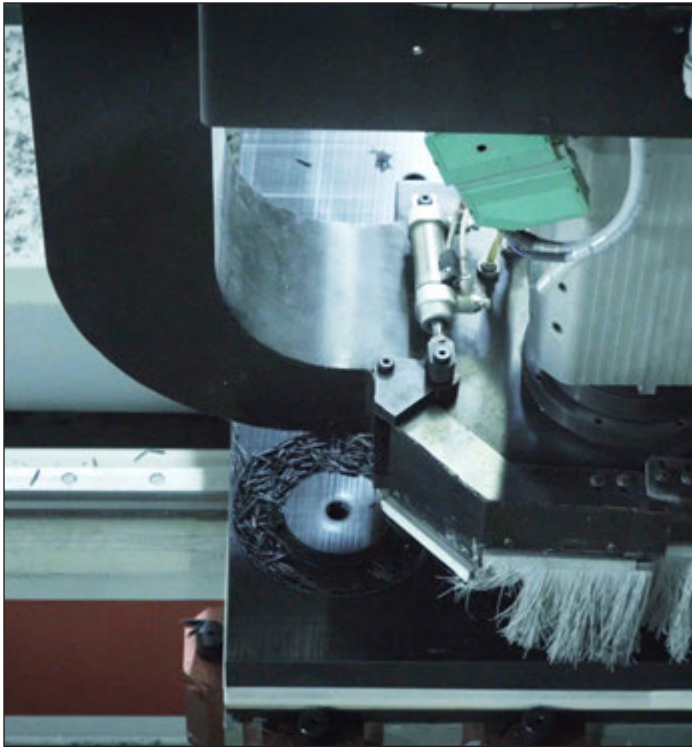
Series 882 Sprocket

Series 881 Sprocket — UHMW

Catalog Number	No. of Teeth		Pitch Diameter	Outside Diameter	Bore (in)	
	Actual	Effective			Stock	Max
881C21NM	21	10.5	5.089	5.124	0.75	1.75
881C23NM	23	11.5	5.56	5.59	0.75	1.75
881C25NM	25	12.5	6.032	6.07	0.75	1.75

Series 882 Sprocket — UHMW

Catalog Number	No. of Teeth		Pitch Diameter	Outside Diameter	Bore (in)	
	Actual	Effective			Stock	Max
882C9NM	9	9	4.386	4.43	0.75	1.75
882C10NM	10	10	4.854	4.92	0.75	1.75
882C11NM	11	11	5.325	5.41	0.75	1.75
882C12NM	12	12	5.796	5.9	0.75	1.75
882C15NM*	15	15	7.215	7.36	0.75	1.75



Martin offers "B" Style Nylon Spur Gears. Other styles and materials are available as Made-to-Order. Spur gears are available with stock bore, idler bore, or finished bore with keyway and setscrews. Standard material of construction is UHMW, Nylon and Acetal. Gear rack is supplied in nominal 48" lengths, however other lengths can be supplied upon request.

Plastic gears have been used successfully without lubrication in many of today's open gear applications. Many will work lubrication free in demanding applications where steel gears will rust or require continuous maintenance.

One key issue in selecting a plastic gear is proper sizing. Plastics have different properties than metals and are sensitive to changing operating conditions. In addition to load data, attention to drive geometry, environmental and operating conditions and plastic material properties is critical.

Martin's dedicated sales staff has the experience and knowledge to help you identify and specify the proper gear for your application.

Benefits of Plastic:

- Cost Effective
- Noise Reduction
- Ability to Absorb Shock and Vibration
- Relatively Low Coefficient of Friction
- Corrosion Resistance - elimination of plating, or protective coatings
- Tolerances often less critical than metal due to greater resilience



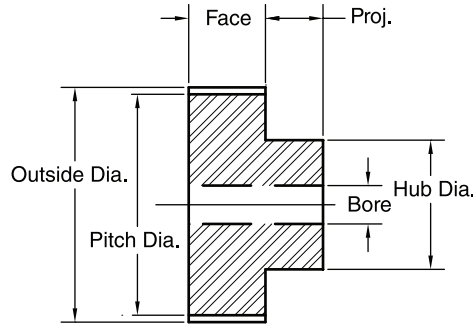
4 DP 2" Face

Nylon Stock Spur Gears 14½° Pressure Angle



Our Spur Gears are machined from solid plates of material, resulting in a spur gear that you can count on to get the job done.

- Standard Material:
Natural Oil-Filled Nylon
- Other numbers of teeth and hub styles available
- Available as finished bore with Keyway and Set Screws



Natural Oil-Filled Nylon Spur Gears

Number of Teeth	Catalog Number	4DP		Type	Bore (in)		Hub (in)	
		Pitch	Outside		Stock	Max. *	Diameter	Project
11	NM411	3	3.5	B	0.75	1.25	2.25	0.875
12	NM412	3	3.5	B	0.75	1.25	2.25	0.875
13	NM413	3.25	3.75	B	0.75	1.25	2.25	0.875
14	NM414	3.5	4	B	0.75	1.625	2.75	0.875
15	NM415	3.75	4.25	B	0.75	1.75	3	0.875
16	NM416	4	4.5	B	0.75	1.75	3.25	0.875
17	NM417	4.25	4.75	B	0.75	2	3.5	0.875
18	NM418	4.5	5	B	0.75	2	3.5	0.875
19	NM419	4.75	5.25	B	0.75	2	3.5	0.875
20	NM420	5	5.5	B	0.75	2.125	3.75	0.875
21	NM421	5.25	5.75	B	0.75	2.375	4	0.875
22	NM422	5.5	6	B	0.75	2.625	4.5	0.875
24	NM424	6	6.5	B	0.75	2.875	4.5	1.5
26	NM426	6.5	7	B	0.75	2.875	4.5	1.5
28	NM428	7	7.5	B	0.75	2.875	4.5	1.5
30	NM430	7.5	8	B	0.75	2.875	4.5	1.5
32	NM432	8	8.5	B	0.75	2.875	4.5	1.5
36	NM436	9	9.5	B	0.75	2.875	4.5	1.5
40	NM440	10	10.5	B	0.75	3.375	5.125	1.5
42	NM442	10.5	11	B	0.75	3.375	5.125	1.5
44	NM444	11	11.5	B	0.75	3.375	5.125	1.5
48	NM448	12	12.5	B	0.75	3.375	5.125	1.5
54	NM454	13.5	14	B	0.75	3.375	5	1.5
56	NM456	14	14.5	B	0.75	3.375	5	1.5
60	NM460	15	15.5	B	0.75	3.375	5	1.5
64	NM464	16	16.5	B	0.75	3.375	5	1.5
72	NM472	18	18.5	B	0.75	3.375	5.5	1.5
80	NM480	20	20.5	B	0.75	3.375	5.5	1.5
84	NM484	21	21.5	B	0.75	3.375	5.5	1.5
88	NM488	22	22.5	B	0.75	3.375	6.125	1.5
96	NM496	24	24.5	B	0.75	3.375	6.125	1.5

* Recommended Maximum Bore With Keyway and Setscrew.

14½° P.A. Gears Will Not Operate With 20° P.A.

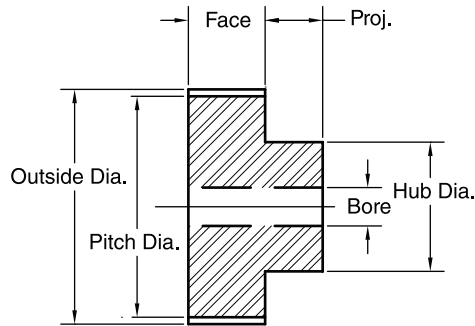


Nylon Stock Spur Gears

14½° Pressure Angle

5 DP

1¾" Face



Natural Oil-Filled Nylon Spur Gears

Number of Teeth	Catalog Number	4DP		Type	Bore (in)		Hub (in)	
		Pitch	Outside		Stock	Max. *	Diameter	Project
11	NM511	2.4	2.8	B	0.75	1	1.781	0.875
12	NM512	2.4	2.8	B	0.75	1	1.781	0.875
13	NM513	2.6	3	B	0.75	1	2	0.875
14	NM514	2.8	3.2	B	0.75	1	2.188	0.875
15	NM515	3	3.4	B	0.75	1	2.375	0.875
16	NM516	3.2	3.6	B	0.75	1	2.594	0.875
17	NM517	3.4	3.8	B	0.75	1.5	2.875	0.875
18	NM518	3.6	4	B	0.75	1.75	3	0.875
19	NM519	3.8	4.2	B	0.75	2	3.25	0.875
20	NM520	4	4.4	B	0.75	2	3.375	0.875
21	NM521	4.2	4.6	B	0.75	2	3.375	0.875
22	NM522	4.4	4.8	B	0.75	2	3.375	0.875
23	NM523	4.6	5	B	0.75	2	3.375	0.875
24	NM524	4.8	5.2	B	0.75	2	3.75	0.875
25	NM525	5	5.4	B	0.75	2	3.75	0.875
26	NM526	5.2	5.6	B	0.75	2	3.75	0.875
28	NM528	5.6	6	B	0.75	2	3.75	0.875
30	NM530	6	6.4	B	0.75	2	3.75	0.875
35	NM535	7	7.4	B	0.75	2.5	3.75	1.25
40	NM540	8	8.4	B	0.75	2.5	3.75	1.25
45	NM545	9	9.4	B	0.75	2.5	3.75	1.25
50	NM550	10	10.4	B	0.75	2.5	3.75	1.25
55	NM555	11	11.4	B	0.75	3	3.75	1.25
60	NM460	12	12.4	B	0.75	3	3.75	1.25
70	NM570	14	14.4	B	0.75	3	5	1.5
80	NM580	16	16.4	B	0.75	3	5	1.5
90	NM590	18	18.4	B	0.75	3.5	5	1.5

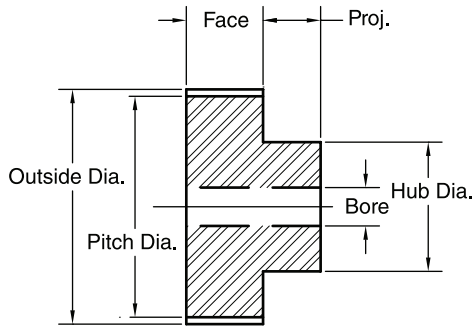
* Recommended Maximum Bore With Keyway and Setscrew.

14½° P.A. Gears Will Not Operate With 20° P.A.

6 DP

1½" Face

Nylon Stock
Spur Gears
14½° Pressure Angle



Natural Oil-Filled Nylon Spur Gears

Number of Teeth	Catalog Number	4DP		Type	Bore (in)		Hub (in)	
		Pitch	Outside		Stock	Max. *	Diameter	Project
11	NM611	2	2.333	B	0.5	0.75	1.5	0.875
12	NM612	2	2.333	B	0.5	0.75	1.5	0.875
14	NM614	2.333	2.666	B	0.5	0.875	1.813	0.875
15	NM615	2.5	2.833	B	0.75	1.125	2	0.875
16	NM616	2.666	3	B	0.75	1.25	2.156	0.875
18	NM618	3	3.333	B	0.75	1.375	2.5	0.875
20	NM620	3.333	3.666	B	0.75	1.625	2.844	0.875
21	NM621	3.5	3.833	B	0.75	1.75	3	0.875
22	NM622	3.666	4	B	0.75	1.75	3	0.875
24	NM624	4	4.333	B	0.75	1.75	3	1
27	NM627	4.5	4.833	B	0.75	1.75	3	1
28	NM628	4.666	5	B	0.75	1.75	3	1
30	NM630	5	5.333	B	0.75	1.75	3.125	1
32	NM632	5.333	5.666	B	0.75	1.75	3.125	1
33	NM633	5.5	5.833	B	0.75	1.75	3.25	1
36	NM636	6	6.333	B	0.75	2.375	4	1
39	NM639	6.5	6.833	B	0.75	2.375	4	1
40	NM640	6.666	7	B	0.75	2.375	4	1
42	NM642	7	7.333	B	0.75	2.375	4	1
45	NM645	7.5	7.833	B	0.75	2.375	4	1
48	NM648	8	8.333	B	0.75	2.5	4.125	1
52	NM652	8.666	9	B	0.75	2.625	4.25	1
54	NM654	9	9.333	B	0.75	2.75	4.375	1
58	NM658	9.666	10	B	0.75	2.75	4.375	1
60	NM660	10	10.333	B	0.75	2.75	4.375	1.25
64	NM664	10.666	11	B	0.75	2.75	4.375	1.25
66	NM666	11	11.333	B	0.75	2.75	4.375	1.25
72	NM672	12	12.333	B	0.75	2.75	4.375	1.25
84	NM684	14	14.333	B	0.75	2.875	4.5	1.25
96	NM696	16	16.333	B	0.75	3.375	5.125	1.25

* Recommended Maximum Bore With Keyway and Setscrew.

14½° P.A. Gears Will Not Operate With 20° P.A.

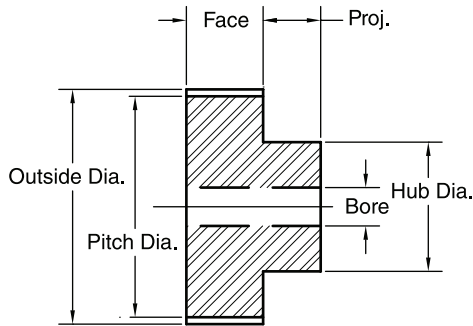


Nylon Stock Spur Gears

14½° Pressure Angle

8 DP

1¼" Face



Natural Oil-Filled Nylon Spur Gears

Number of Teeth	Catalog Number	4DP		Type	Bore (in)		Hub (in)	
		Pitch	Outside		Stock	Max.*	Diameter	Project
11	NM811	1.5	1.75	B	0.5	0.75	1.125	0.75
12	NM812	1.5	1.75	B	0.5	0.75	1.125	0.75
13	NM813	1.625	1.875	B	0.5	0.75	1.25	0.75
14	NM814	1.75	2	B	0.5	0.625	1.375	0.75
15	NM815	1.875	2.125	B	0.5	0.75	1.5	0.75
16	NM816	2	2.25	B	0.5	0.875	1.625	0.75
17	NM817	2.125	2.375	B	0.5	0.875	1.75	0.75
18	NM818	2.25	2.5	B	0.75	1	1.875	0.75
19	NM819	2.375	2.625	B	0.75	1.125	2	0.75
20	NM820	2.5	2.75	B	0.75	1.125	2.125	0.75
21	NM821	2.625	2.875	B	0.75	1.25	2.25	0.75
22	NM822	2.75	3	B	0.75	1.25	2.375	0.75
24	NM824	3	3.25	B	0.75	1.5	2.625	1
26	NM826	3.25	3.5	B	0.75	1.5	2.625	1
28	NM828	3.5	3.75	B	0.75	1.625	2.75	1
30	NM830	3.75	4	B	0.75	1.75	2.875	1
32	NM832	4	4.25	B	0.75	1.75	3	1
36	NM836	4.5	4.75	B	0.75	1.75	3	1
40	NM840	5	5.25	B	0.75	1.75	3	1
42	NM842	5.25	5.5	B	0.75	1.75	3	1
44	NM844	5.5	5.75	B	0.75	1.75	3	1
48	NM848	6	6.25	B	0.75	1.75	3	1

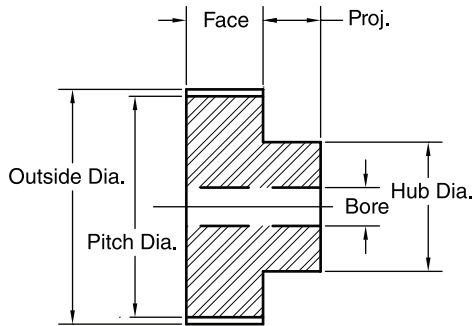
* Recommended Maximum Bore With Keyway and Setscrew.

14½° P.A. Gears Will Not Operate With 20° P.A.

10 DP

1" Face

Nylon Stock
Spur Gears
14½° Pressure Angle



Natural Oil-Filled Nylon Spur Gears

Number of Teeth	Catalog Number	4DP		Type	Bore (in)		Hub (in)	
		Pitch	Outside		Stock	Max. *	Diameter	Project
11	NM1011	1.2	1.4	B	0.25	0.5	0.938	0.625
12	NM1012	1.2	1.4	B	0.25	0.5	0.938	0.625
13	NM1013	1.3	1.5	B	0.25	0.5	1	0.625
14	NM1014	1.4	1.6	B	0.5	0.5	1.125	0.625
15	NM1015	1.5	1.7	B	0.5	0.75	1.219	0.625
16	NM1016	1.6	1.8	B	0.5	0.75	1.313	0.625
17	NM1017	1.7	1.9	B	0.5	0.75	1.375	0.625
18	NM1018	1.8	2	B	0.5	0.75	1.531	0.625
19	NM1019	1.9	2.1	B	0.5	0.75	1.563	0.625
20	NM1020	2	2.2	B	0.5	0.875	1.719	0.625
21	NM1021	2.1	2.3	B	0.5	0.875	1.75	0.625
22	NM1022	2.2	2.4	B	0.75	1	1.875	0.625
24	NM1024	2.4	2.6	B	0.75	1.125	2.125	0.625
25	NM1025	2.5	2.7	B	0.75	1.25	2.219	0.625
26	NM1026	2.6	2.8	B	0.75	1.25	2.125	0.625
28	NM1028	2.8	3	B	0.75	1.25	2.125	0.875
30	NM1030	3	3.2	B	0.75	1.25	2.125	0.875
32	NM1032	3.2	3.4	B	0.75	1.25	2.125	0.875
35	NM1035	3.5	3.7	B	0.75	1.25	2.25	0.875
36	NM1036	3.6	3.8	B	0.75	1.25	2.25	0.875
38	NM1038	3.8	4	B	0.75	1.25	2.25	0.875
40	NM1040	4	4.2	B	0.75	1.25	2.25	0.875
42	NM1042	4.2	4.4	B	0.75	1.25	2.25	0.875
45	NM1045	4.5	4.7	B	0.75	1.375	2.5	0.875
48	NM1048	4.8	5	B	0.75	1.375	2.5	0.875
50	NM1050	5	5.2	B	0.75	1.375	2.5	0.875
54	NM1054	5.4	5.6	B	0.75	1.375	2.5	0.875
55	NM1055	5.5	5.7	B	0.75	1.375	2.5	0.875
60	NM1060	6	6.2	B	0.75	1.375	2.5	0.875

* Recommended Maximum Bore With Keyway and Setscrew.

14½° P.A. Gears Will Not Operate With 20° P.A.

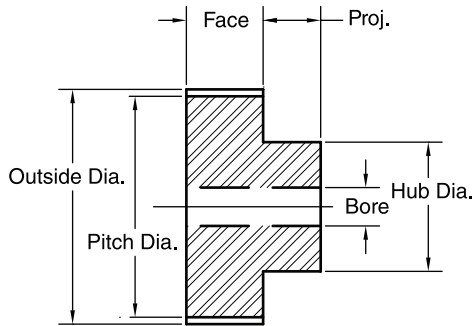


Nylon Stock Spur Gears

14½° Pressure Angle

12 DP

¾" Face



Natural Oil-Filled Nylon Spur Gears

Number of Teeth	Catalog Number	4DP		Type	Bore (in)		Hub (in)	
		Pitch	Outside		Stock	Max.*	Diameter	Project
11	NM1211	1	1.167	B	0.25	0.5	0.75	0.5
12	NM1212	1	1.167	B	0.25	0.5	0.75	0.5
13	NM1213	1.083	1.25	B	0.25	0.5	0.813	0.5
14	NM1214	1.167	1.333	B	0.25	0.5	0.906	0.5
15	NM1215	1.25	1.417	B	0.25	0.5	1	0.5
16	NM1216	1.333	1.5	B	0.5	0.5	1.063	0.5
17	NM1217	1.413	1.58	B	0.5	0.5	1.125	0.5
18	NM1218	1.5	1.667	B	0.5	0.5	1.25	0.5
19	NM1219	1.583	1.75	B	0.5	0.75	1.313	0.5
20	NM1220	1.667	1.833	B	0.5	0.875	1.813	0.5
21	NM1221	1.75	1.917	B	0.5	0.75	1.5	0.5
22	NM1222	1.833	2	B	0.5	0.875	1.563	0.5
23	NM1223	1.917	2.083	B	0.5	0.875	1.625	0.5
24	NM1224	2	2.166	B	0.5	0.875	1.75	0.5
25	NM1225	2.083	2.25	B	0.5	0.875	1.844	0.5
26	NM1226	2.167	2.333	B	0.5	1	1.938	0.625
28	NM1228	2.333	2.5	B	0.5	1.25	2.063	0.625
30	NM1230	2.5	2.667	B	0.5	1.25	2.25	0.625
32	NM1232	2.667	2.833	B	0.5	1.25	2.25	0.625
34	NM1234	2.833	3	B	0.5	1.25	2.25	0.625
36	NM1236	3	3.167	B	0.5	1.375	2.5	0.625
39	NM1239	3.167	3.333	B	0.5	1.375	2.5	0.625
40	NM1240	3.333	3.5	B	0.5	1.375	2.5	0.625
42	NM1242	3.5	3.666	B	0.5	1.375	2.5	0.625
44	NM1244	3.667	3.833	B	0.5	1.375	2.5	0.625
48	NM1248	4	4.166	B	0.5	1.375	2.5	0.75
54	NM1254	4.5	4.666	B	0.75	1.625	2.75	0.75
56	NM1256	4.667	4.833	B	0.75	1.625	2.75	0.75
60	NM1260	5	5.166	B	0.75	1.625	2.75	0.75
64	NM1264	5.333	5.5	B	0.75	1.625	2.75	0.75
66	NM1266	5.5	5.666	B	0.75	1.625	2.75	0.75
72	NM1272	6	6.166	B	0.75	1.625	2.75	0.75

* Recommended Maximum Bore With Keyway and Setscrew.

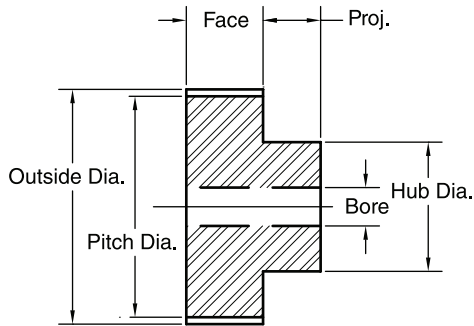
14½° P.A. Gears Will Not Operate With 20° P.A.

16 DP

1/2" Face

Nylon Stock Spur Gears

14½° Pressure Angle



Natural Oil-Filled Nylon Spur Gears

Number of Teeth	Catalog Number	4DP		Type	Bore (in)		Hub (in)	
		Pitch	Outside		Stock	Max. *	Diameter	Project
11	NM1611	0.75	0.875	B	0.25	0.375	0.563	0.438
12	NM1612	0.75	0.875	B	0.25	0.375	0.563	0.438
13	NM1613	0.812	0.937	B	0.25	0.375	0.625	0.438
14	NM1614	0.875	1	B	0.25	0.375	0.688	0.438
15	NM1615	0.937	1.062	B	0.25	0.5	0.75	0.438
16	NM1616	1	1.125	B	0.25	0.5	0.813	0.438
17	NM1617	1.062	1.187	B	0.25	0.5	0.875	0.438
18	NM1618	1.125	1.25	B	0.25	0.5	0.938	0.438
19	NM1619	1.187	1.312	B	0.25	0.5	1	0.438
20	NM1620	1.25	1.375	B	0.5	0.5	1.063	0.438
21	NM1621	1.312	1.438	B	0.5	0.5	1.125	0.438
22	NM1622	1.375	1.5	B	0.5	0.5	1.188	0.438
23	NM1623	1.437	1.562	B	0.5	0.5	1.25	0.438
24	NM1624	1.5	1.625	B	0.5	0.625	1.313	0.438
26	NM1626	1.625	1.75	B	0.5	0.75	1.438	0.438
28	NM1628	1.75	1.875	B	0.5	0.75	1.5	0.5
30	NM1630	1.875	2	B	0.5	0.875	1.625	0.5
32	NM1632	2	2.125	B	0.5	1	1.75	0.5
34	NM1634	2.125	2.25	B	0.5	1.125	1.875	0.5
36	NM1636	2.25	2.375	B	0.5	1.125	2	0.5
38	NM1638	2.375	2.5	B	0.5	1.125	2	0.5
40	NM1640	2.5	2.626	B	0.75	1.125	2	0.5
44	NM1644	2.75	2.875	B	0.5	1.125	2	0.5
48	NM1648	3	3.125	B	0.5	1.125	2	0.5
52	NM1652	3.25	3.375	B	0.5	1.125	2	0.5
54	NM1654	3.375	3.5	B	0.5	1.125	2	0.5
56	NM1656	3.5	3.625	B	0.5	1.125	2	0.5
60	NM1660	3.75	3.875	B	0.5	1.125	2	0.5
64	NM1664	4	4.125	B	0.5	1.125	2	0.625
68	NM1668	4.25	4.375	B	0.5	1.25	2.25	0.625
72	NM1672	4.5	4.625	B	0.5	1.25	2.25	0.625
80	NM1680	5	5.125	B	0.5	1.25	2.25	0.625
84	NM1684	5.25	5.375	B	0.5	1.25	2.25	0.625
88	NM1688	5.5	5.625	B	0.5	1.25	2.25	0.625
96	NM1696	6	6.125	B	0.5	1.25	2.25	0.625

* Recommended Maximum Bore With Keyway and Setscrew.

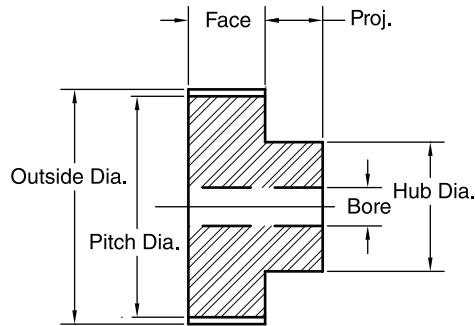
14½° P.A. Gears Will Not Operate With 20° P.A.



Nylon Stock Spur Gears

14½° Pressure Angle

20 DP
3/8" Face



Natural Oil-Filled Nylon Spur Gears

Number of Teeth	Catalog Number	4DP		Type	Bore (in)		Hub (in)	
		Pitch	Outside		Stock	Max. *	Diameter	Project
11	NM2011	0.55	0.65	B	0.25	0.313	0.406	0.375
12	NM2012	0.6	0.7	B	0.25	0.313	0.469	0.375
14	NM2014	0.7	0.8	B	0.25	0.313	0.547	0.375
15	NM2015	0.75	0.85	B	0.25	0.375	0.609	0.375
18	NM2018	0.9	1	B	0.25	0.375	0.75	0.375
20	NM2020	1	1.1	B	0.25	0.375	0.859	0.375
24	NM2024	1.2	1.3	B	0.375	0.563	1.063	0.375
30	NM2030	1.5	1.6	B	0.375	0.813	1.359	0.375
32	NM2032	1.6	1.7	B	0.375	0.875	1.438	0.5

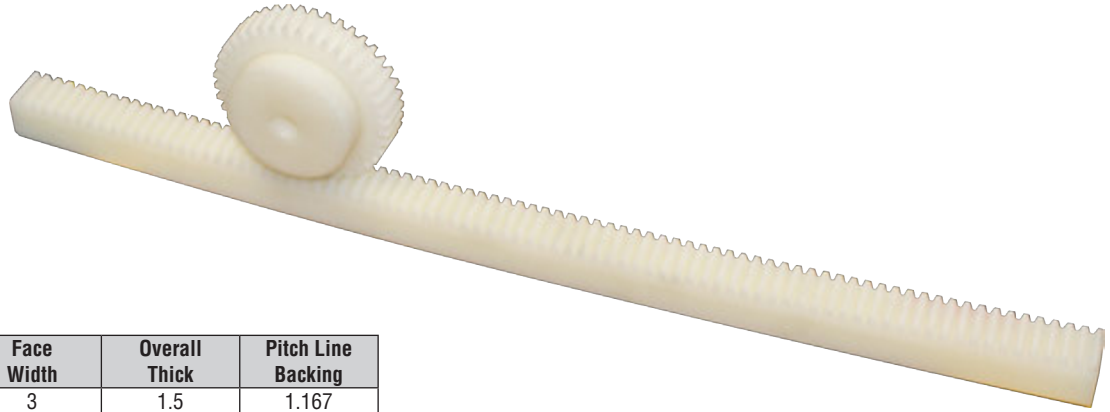
* Recommended Maximum Bore With Keyway and Setscrew.

14½° P.A. Gears Will Not Operate With 20° P.A.

Machined Nylon Gear Rack

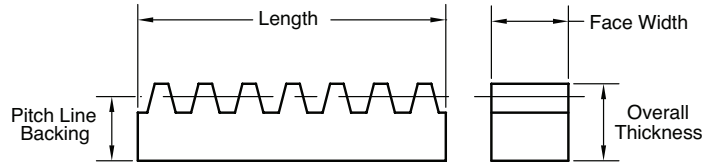


- Standard Material: Natural Oil-Filled Nylon
- Other dimensions available
- Supplied as nominal 48" lengths.
- Matched ends available upon request



Gear Rack 14½° PA

Pitch	Catalog Number	Face Width	Overall Thick	Pitch Line Backing
3	R3X4NM	3	1.5	1.167
4	R4X4NM	2	1.5	1.25
4	RA4X4NM	2	2	1.75
5	R5X4NM	1.75	1.25	1.05
5	RA5X4NM	1.75	1.5	1.3
6	R6X4NM	1.5	1	0.833
6	RA6X4NM	1.5	1.5	1.333
8	R8X4NM	1.25	0.75	0.625
8	RA8X4NM	1.25	1.25	1.125
10	R10X4NM	1	0.625	0.525
10	RA10X4NM	1	1	0.9
12	R12X4NM	0.75	0.5	0.417
12	RA12X4NM	0.75	0.75	0.667
16	RA16X4NM	0.5	0.5	0.438
20	RA20X4NM	0.375	0.375	0.325



Gear Rack 20° PA

Pitch	Catalog Number	Face Width	Overall Thick	Pitch Line Backing
3	R3X4NM	3	1.5	1.167
4	R4X4NM	2	1.5	1.25
4	RA4X4NM	2	2	1.75
5	R5X4NM	1.75	1.25	1.05
5	RA5X4NM	1.75	1.5	1.3
6	R6X4NM	1.5	1	0.833
6	RA6X4NM	1.5	1.5	1.333
8	R8X4NM	1.25	0.75	0.625
8	RA8X4NM	1.25	1.25	1.125
10	R10X4NM	1	0.625	0.525
10	RA10X4NM	1	1	0.9
12	R12X4NM	0.75	0.5	0.417
12	RA12X4NM	0.75	0.75	0.667
16	RA16X4NM	0.5	0.5	0.438
20	RA20X4NM	0.375	0.375	0.325



V-Belt Sheaves

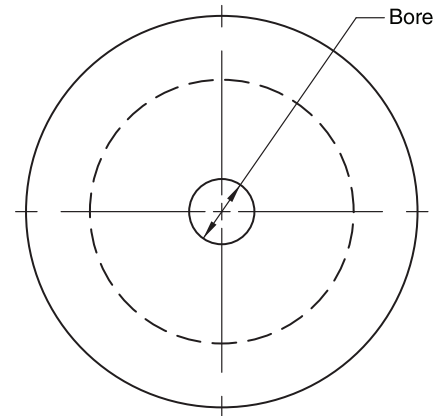
UHMW – White

UHMW V-Belt Sheaves are ideal for use in power transmission and motion transfer. *Martin* offers a wide selection of pulleys in White Food Grade UHMW. Other sizes and materials are available upon request.

V-Belt Sheaves for A Belts

1 Groove				
F= 3/4"				
Part Number	PD	OD	Length Thru Bore	Stock Bore
1 A 15NM	1.5	1.75	0.75	0.25
1 A 18NM	1.8	2.05	0.75	0.25
1 A 19NM	1.9	2.15	0.75	0.25
1 A 20NM	2	2.25	0.75	0.25
1 A 21NM	2.1	2.35	0.75	0.25
1 A 23NM	2.3	2.55	0.75	0.25
1 A 24NM	2.4	2.65	0.75	0.25
1 A 25NM	2.5	2.75	0.75	0.25
1 A 26NM	2.6	2.85	0.75	0.25
1 A 28NM	2.8	3.05	0.75	0.25
1 A 30NM	3	3.25	0.75	0.25
1 A 32NM	3.2	3.45	0.75	0.5

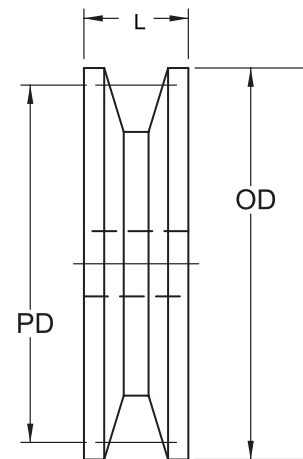
NOTE: Dimensions in inches.



V-Belt Sheaves for Combination A/B Belts

1 Groove				
F= 1"				
Part Number	PD	OD	Length Thru Bore	Stock Bore
1 B 34NM	3.4	3.75	1	0.5
1 B 36NM	3.6	3.95	1	0.5
1 B 38NM	3.8	4.15	1	0.5
1 B 40NM	4	4.35	1	0.5
1 B 42NM	4.2	4.55	1	0.5
1 B 44NM	4.4	4.75	1	0.5
1 B 46NM	4.6	4.95	1	0.5
1 B 48NM	4.8	5.15	1	0.5
1 B 50NM	5	5.35	1	0.5
1 B 52NM	5.2	5.75	1	0.5
1 B 54NM	5.4	5.95	1	0.5
1 B 56NM	5.6	6.15	1	0.5
1 B 58NM	5.8	6.35	1	0.5
1 B 60NM	6	6.55	1	0.5
1 B 62NM	6.2	6.5	1	0.5
1 B 64NM	6.4	6.75	1	0.5
1 B 66NM	6.6	6.95	1	0.5
1 B 68NM	6.8	7.15	1	0.5
1 B 74NM	7.4	7.75	1	0.5
1 B 86NM	8.6	8.95	1	0.5
1 B 94NM	9.4	9.75	1	0.5
1 B 110NM	11	11.35	1	0.5
1 B 124NM	12.4	12.75	1	0.5

NOTE: Reboring, multiple deep groove, and other configurations are available upon request. Dimensions in inches.



V-BELT SHEAVES

Round Belt Pulleys

UHMW – White



Martin Round Belt Pulleys are ideal for use in power transmission applications. *Martin's* Round Belt pulleys are manufactured from Food Grade White UHMW, which requires no lubrication. Pulleys are chemical, moisture and abrasive resistant. These light weight pulleys offer exceptional durability.

Pulleys are available in all popular sizes. Other sizes and material such as Nylon and acetal are available as Made to Order.

Round Belt Pulleys for 1/4" Round Belt

White UHMW

1 Groove				
F= 1/2"				
Part Number	PD	L Length thru Bore	R	Stock Bore
1.5 WRSNM	1.5	0.5	0.141	0.25
2.0 WRSNM	2	0.5	0.141	0.25
2.5 WRSNM	2.5	0.5	0.141	0.25
3.0 WRSNM	3	0.5	0.141	0.5
3.5 WRSNM	3.5	0.5	0.141	0.5
4.0 WRSNM	4	0.5	0.141	0.5
4.5 WRSNM	4.5	0.5	0.141	0.5
5.0 WRSNM	5	0.5	0.141	0.5

NOTE: Dimensions in inches.

Round Belt Pulleys for 3/8" Round Belt

White UHMW

1 Groove				
F= 5/8"				
Part Number	PD	L Length thru Bore	R	Stock Bore
2.0 WRSNM	2	0.625	0.203	0.25
2.5 WRSNM	2.5	0.625	0.203	0.25
3.0 WRSNM	3	0.625	0.203	0.25
3.5 WRSNM	3.5	0.625	0.203	0.5
4.0 WRSNM	4	0.625	0.203	0.5
4.5 WRSNM	4.5	0.625	0.203	0.5
5.0 WRSNM	5	0.625	0.203	0.5
5.5 WRSNM	5.5	0.625	0.203	0.5
6.0 WRSNM	6	0.625	0.203	0.5
6.5 WRSNM	6.5	0.625	0.203	0.5

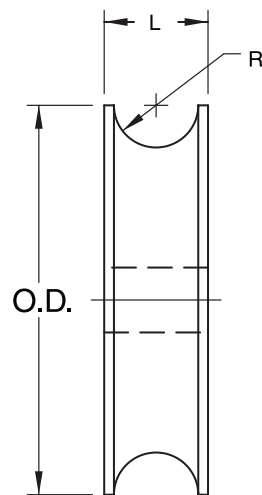
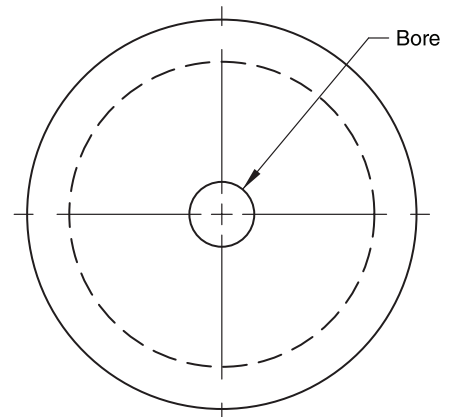
NOTE: Dimensions in inches.

Round Belt Pulleys for 1/2" Round Belt

White UHMW

1 Groove				
F= 3/4"				
Part Number	PD	L Length thru Bore	R	Stock Bore
3.0 WRSNM	3	0.75	0.266	0.25
3.5 WRSNM	3.5	0.75	0.266	0.5
4.0 WRSNM	4	0.75	0.266	0.5
4.5 WRSNM	4.5	0.75	0.266	0.5
5.0 WRSNM	5	0.75	0.266	0.5
5.5 WRSNM	5.5	0.75	0.266	0.5
6.0 WRSNM	6	0.75	0.266	0.5
6.5 WRSNM	6.5	0.75	0.266	0.5
7.0 WRSNM	7	0.75	0.266	0.5
7.5 WRSNM	7.5	0.75	0.266	0.5
8.0 WRSNM	8	0.75	0.266	0.5
9.0 WRSNM	9	0.75	0.266	0.5
10.0 WRSNM	10	0.75	0.266	0.5

NOTE: Dimensions in inches.



ROUND BELT PULLEY



Flat Belt & Can Line Pulleys

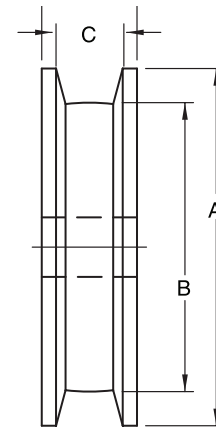
UHMW – White

Martin Can Line Pulleys are ideal for cable conveying lines in food processing plants where noise and corrosion are a problem. Stainless Steel Bushings are available. *Martin's* Can Line Pulleys can extend the life of either plastic or steel cable. Pulleys are available in all popular sizes. Other sizes and material such as Nylon and acetal are available as Made-to-Order.

Flat Belt Pulleys UHMW-PE: White

Part Number	A	B	C	D
FBPULLEY0301NM	3	2.5	0.75	1
FBPULLEY0302NM	3	2.5	1	1.25
FBPULLEY0351NM	3.5	3	0.75	1
FBPULLEY0352NM	3.5	3	1	1.25
FBPULLEY0451NM	4.5	4	0.75	1
FBPULLEY0452NM	4.5	4	1	1.25
FBPULLEY0551NM	5.5	5	1	1.25
FBPULLEY0552NM	5.5	5	1.35	1.5

NOTE: Dimensions in inches.
Reboring available upon request.

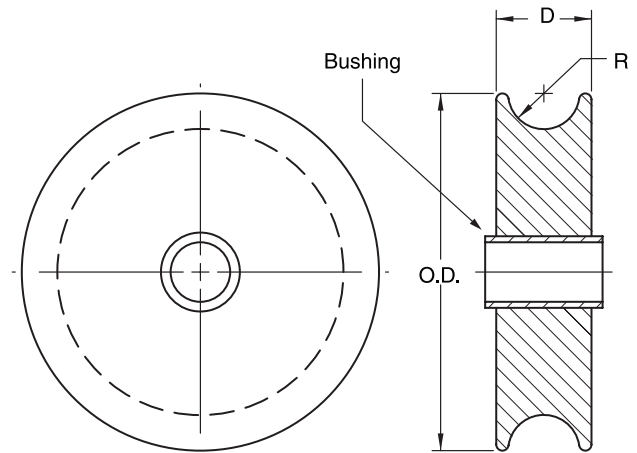


FLAT BAELT PULLEY

Can Line Cable Pulleys UHMW-PE: Green

Part Number	OD	D	R
CLPULLEY2148NM	3	0.625	0.203
CLPULLEY2164NM	4	0.625	0.203

NOTE: Dimensions in inches.
Reboring available upon request.



CAN LINE PULLEY

Can Line Steel Bushings UHMW-PE: White

Part Number	OD
CLBUSHING232SS	0.25
CLBUSHING233SS	0.375

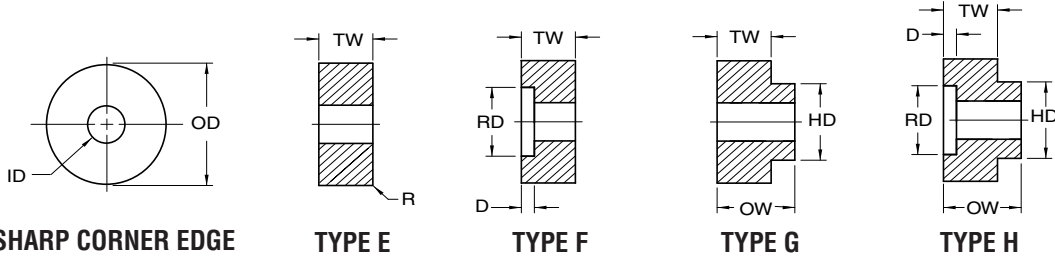
NOTE: Dimensions in inches.
Reboring available upon request.

Wheels & Rollers

UHMW – White



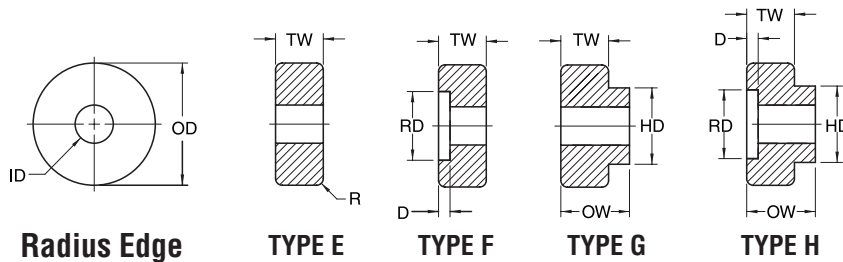
Martin Wheels may be used as a direct replacement for conventional steel or aluminum wheels in many applications. These industrial plastic wheels are quiet operating, non-marking and corrosion resistant while maintaining a high load capacity.



Wheels & Roller – Sharp Corner Edges

Part Number	Type	Outside Diameter	Inside Diameter	TW Tread Width	OW Overall Width	HD Hub Diameter	RD Recess Diameter	D Recess Depth
WRS1001NM	E	0.438	0.125	0.25	–	–	–	–
WRS1002NM	G	0.438	0.125	0.25	0.313	0.313	–	–
WRS1003NM	F	0.438	0.139	0.313	–	–	0.219	0.063
WRS1004NM	F	0.438	0.139	0.313	–	–	0.313	0.125
WRS1005NM	E	0.5	0.201	0.313	–	–	–	–
WRS1006NM	F	0.563	0.264	0.313	–	–	0.469	0.063
WRS1007NM	E	0.625	0.201	0.5	–	–	–	–
WRS1008NM	H	0.688	0.389	0.188	0.25	0.5	0.5	0.063
WRS1009NM	E	0.75	0.264	0.781	–	–	–	–
WRS1010NM	E	0.75	0.264	1	–	–	–	–
WRS1011NM	E	0.875	0.187	0.5	–	–	–	–
WRS1012NM	F	0.875	0.327	0.469	–	–	0.625	0.188
WRS1013NM	H	0.875	0.201	0.313	0.375	0.688	0.625	0.125
WRS1014NM	F	1	0.38	0.375	–	–	0.813	0.063
WRS1015NM	E	1.125	0.26	0.375	–	–	–	–
WRS1016NM	F	1.5	0.317	0.406	–	–	1.25	0.156
WRS1017NM	G	2.5	0.326	1.375	1.5	0.75	–	–
WRS1018NM	G	3	0.505	1.375	1.25	0.875	–	–

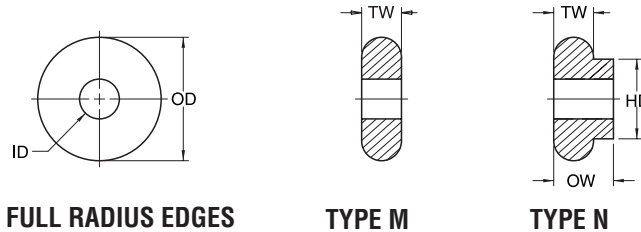
NOTE: Dimensions in inches.



Wheels & Roller – Radius Edges

Part Number	Type	Outside Diameter	Inside Diameter	TW Tread Width	OW Overall Width	HD Hub Diameter	RD Recess Diameter	D Recess Depth	R Radius
WRR2001NM	F	0.375	0.095	0.375	–	–	0.188	0.125	0.125
WRR2002NM	F	0.5	0.19	0.375	–	–	0.375	0.063	0.063
WRR2003NM	F	0.625	0.187	0.313	–	–	0.313	0.125	0.063
WRR2004NM	H	0.75	0.201	0.25	0.281	0.313	0.656	0.063	0.063
WRR2005NM	E	0.75	0.264	0.5	–	–	–	–	0.125
WRR2006NM	G	0.875	0.139	0.375	0.438	0.5	–	–	0.125
WRR2007NM	F	1	0.201	0.5	–	–	0.563	0.094	0.063
WRR2008NM	E	1.125	0.264	0.375	–	–	–	–	0.125
WRR2009NM	H	1.125	0.326	0.375	0.438	0.5	0.625	0.063	0.125
WRR2010NM	E	2	0.641	0.125	–	–	–	–	0.063
WRS1018NM	G	3	0.505	1.375	1.25	0.875	–	–	–

NOTE: Dimensions in inches.



FULL RADIUS EDGES

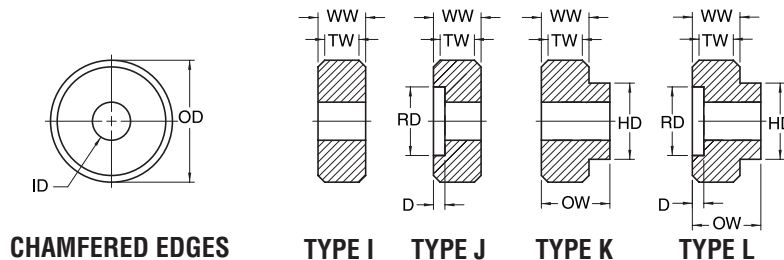
TYPE M

TYPE N

Wheels & Roller – Full Radius Edges

Part Number	Type	Outside Diameter	Inside Diameter	TW Tread Width	OW Overall Width	HD Hub Diameter
WRFR4001NM	M	0.75	0.264	0.25	–	–
WRFR4002NM	N	0.75	0.264	0.25	0.313	0.375
WRFR4003NM	N	0.75	0.312	0.25	0.5	0.5
WRFR4004NM	N	0.938	0.375	0.188	0.25	0.5
WRFR4005NM	M	1	0.201	0.25	–	–
WRFR4006NM	M	1.5	0.389	0.75	–	–
WRFR4007NM	N	1.5	0.389	0.75	1	0.75
WRFR4008NM	M	2	0.389	1	–	–

NOTE: Dimensions in inches.



CHAMFERED EDGES

TYPE I

TYPE J

TYPE K

TYPE L

- Trolley Wheels
- Guide Wheels
- Spools
- Crowned Wheels
- Pallet Jack Wheels

Wheels & Roller – Chamfered Edges

Part Number	Type	Outside Diameter	Inside Diameter	TW Tread Width	OW Overall Width	HD Hub Diameter	RD Recess Diameter	D Recess Depth	Chamfer
WRC3001NM	L	0.75	0.326	0.219	0.5	0.5	0.563	0.031	45° x .031
WRC3002NM	I	0.875	0.326	0.25	–	–	–	–	45° x .031
WRC3003NM	L	0.875	0.375	0.188	0.375	0.5	0.5	0.031	45° x .031
WRC3004NM	K	0.875	0.389	0.188	0.375	0.5	–	–	45° x .031
WRC3005NM	J	0.938	0.375	0.313	–	–	–	–	45° x .031
WRC3006NM	K	0.938	0.389	0.188	0.375	0.5	0.5	0.063	45° x .031
WRC3007NM	I	1	0.75	0.5	–	–	–	–	45° x .063
WRC3008NM	J	1	0.389	0.188	–	–	0.813	0.063	45° x .031
WRC3009NM	I	1.063	0.326	0.25	–	–	–	–	45° x .063
WRC3010NM	L	1.063	0.389	0.094	0.563	0.625	0.625	0.063	45° x .094
WRC3011NM	I	1.5	0.505	1	–	–	–	–	45° x .125

NOTE: Dimensions in inches.

Other sizes are available upon request.

Other materials, such as Acetal, Teflon® and Nylon, are also available.

Wastewater Treatment Components

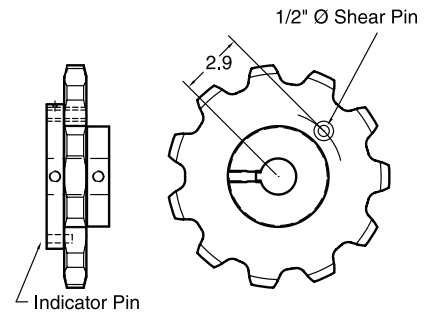


78 Series Shear Pin Sprocket

- Nylon Body & Nylon Sprocket
- Includes Trip Indicator

No. Teeth	Part Number	Pitch Dia.	Type	Bore Max.	A	B	C	D
10	78SP10NM	8.44	C	2	4.875	3.25	3.75	8
11	78SP11NM	9.26	C	2.5	4.875	3.25	3.75	8
13	78SP13NM	10.9	C	3	5.875	3.75	4.438	9

NOTE: Dimensions in inches.

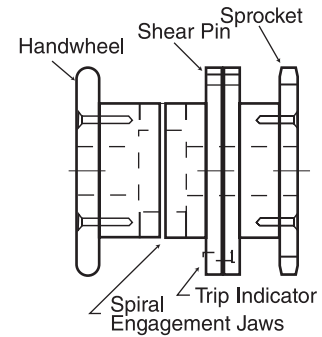


78 Series Jaw Clutch Sprocket

- Nylon Body & Nylon Sprocket
- Includes Trip Indicator

No. Teeth	Part Number	Pitch Dia.	Type	Bore Max.	A	B	C	D
11	78JC11	9.26	C	2.5	3.5	2.75	3	14.25

NOTE: Dimensions in inches.



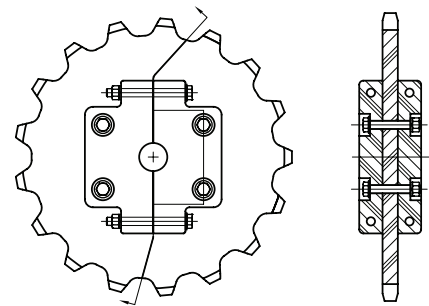
720 Series Split Sprocket

- UHMW sprocket plates & hubs
- 304 Stainless Steel hardware as standard
- 316 Stainless Steel hardware optional
- Standard Rim and Chain-saver rim available
- Other Numbers of Teeth Available

6.0" Pitch, 1" Nominal Plate Width
4" Length Thru Bore, C- Hub

No. Teeth	Part Number	Pitch Dia.	Outside Dia.	Bore Stock	Max Drive	Max Idler	Hub Dia.	Nom LTB
13	720C13NMS	12.91	13.5	1	3.25	3.625	7	4
17	720C17NMS	16.59	17.09	1.75	3.938	5	8.875	4
19	720C19NMS	18.45	18.95	1.75	3.938	5	8.875	4
21	720C21NMS	20.33	20.83	1.75	3.938	5	8.875	4
23	720C23NMS	22.21	22.71	1.75	3.938	5	8.875	4
25	720C25NMS	24.1	24.6	1.75	4.5	6	10.5	4

NOTE: Dimensions in inches.

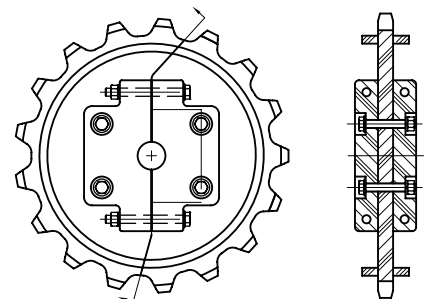


720 Series Split Sprocket

6.0" Pitch, 1" Nominal Plate Width
4" Length Thru Bore, C- Hub

No. Teeth	Part Number	Pitch Dia.	Outside Dia.	Chainsaver Hub Dia.	Bore Stock	Max Drive	Max Idler	Hub Dia.	Nom LTB
13	720CS13NMS	12.89	13.39	10.03	1	3.25	3.625	7	4
17	720CS17NMS	16.59	17.09	14.07	1.75	3.938	5	8.875	4
19	720CS19NMS	18.45	18.95	16.06	1.75	3.938	5	8.875	4
21	720CS21NMS	20.33	20.83	18.04	1.75	3.938	5	8.875	4
23	720CS23NMS	22.21	22.71	20	1.75	3.938	5	8.875	4
25	720CS25NMS	24.1	24.6	22.03	1.75	4.5	6	10.5	4

NOTE: Dimensions in inches.

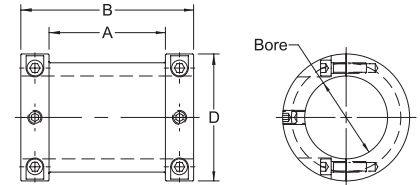


Static Shaft Bushings

These static shaft bushings protect expensive shafts from damage caused by idler sprockets. Manufactured from green oil-filled nylon with stainless steel hardware. They are as durable as stainless steel counterparts at a fraction of the cost. They are chemical, corrosion, moisture and abrasive resistant. Custom sizes and materials available.

Part Number	Max. Shaft Size	A	B	D
WTB4700	2.938	4.13	6.125	4.5
WTB6400	4	4.13	6.125	6
WTB7200	4.5	4.13	6.125	6.25
WTB8400	5.25	4.13	6.125	7

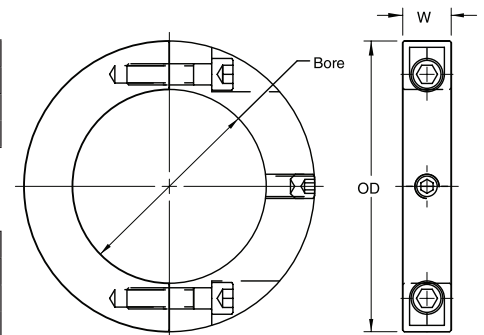
NOTE: Dimensions in inches.



Static Shaft Bushing-Split

Shaft Collars – Regular Duty

Part Number	W	Outside Diameter	Bore	
			Stock	Max.
WTSC600	1	6	1.75	4
WTSC800	1	8	3.25	5



Shaft Collar

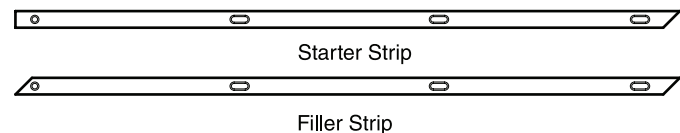
Shaft Collars – Heavy Duty

Part Number	W	Outside Diameter	Bore	
			Stock	Max.
WTSC2600	2.5	6	1.75	4
WTSC2800	2.5	8	3.25	5

NOTE: Dimensions in inches.

Wear Strips

These wear strips are easy to install and provide superior protection for rails and other moving machinery. Strips include slots for weld washer installations. We can easily accommodate any special spacing or size requirement for the strips and slots.



Filler Wear Strips

Part Number	Thickness	Width	Length	Center Line	Part Number	Thickness	Width	Length	Center Line
WTF1000	0.38	2.63	120	1.31	WTS1100	0.38	2.63	120	1.31
WTF1002	0.38	3	120	1.5	WTS1102	0.38	3	120	1.5
WTF1003	0.5	2.5	120	1.25	WTS1103	0.5	2.5	120	1.25
WTF1004	0.5	3	120	1.5	WTS1104	0.5	3	120	1.5
WTF1005	0.5	3.5	120	1.75	WTS1105	0.5	3.5	120	1.75
WTF1006	0.5	4	120	2	WTS1106	0.5	4	120	2
WTF1007	0.5	5	120	2.5	WTS1107	0.5	5	120	2.5
WTF1008	0.63	2.5	120	1.25	WTS1108	0.63	2.5	120	1.25
WTF1009	0.63	3	120	1.5	WTS1109	0.63	3	120	1.5
WTF1010	0.63	4	120	2	WTS1110	0.63	4	120	2
WTF1011	0.63	5	120	2.5	WTS1111	0.63	5	120	2.5

NOTE: Dimensions in inches.

Starter Wear Strips

Wastewater Treatment Components

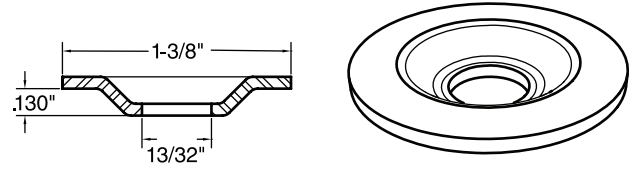


Weld Washers

Used to fasten wear strips to rails and tank floors.

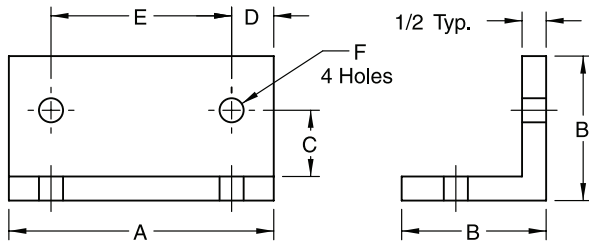
Part Number	Material	Diameter
WTWW1375SS	Stainless Steel	1.375
WTWW1376	Carbon Steel	1.375

NOTE: Dimensions in inches.



Wear Shoes

Wear Shoes may be manufactured to fit your particular application. For custom wear shoes, please provide your *Martin* representative with specifications.

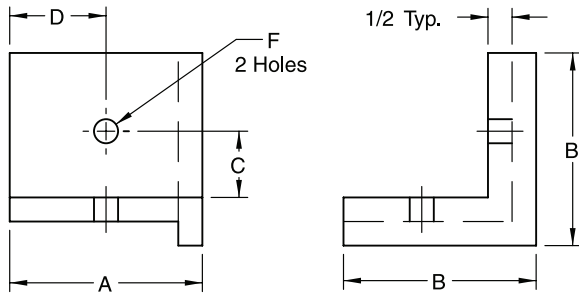


Carrying Wear Shoes

Carrying Wear Shoes

Part Number	A	B	C	D	E	F
WTWS1001	5.5	3	1.31	0.88	3.75	0.5
WTWS1550	5.5	3	1.38	0.88	3.75	0.5
WTWS1600	6	3	1.38	1.13	3.75	0.5

NOTE: Dimensions in inches.

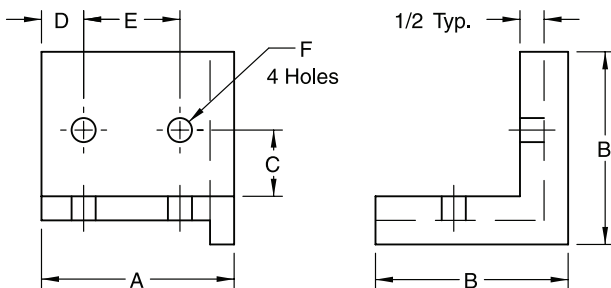


Single Hole Return Wear Shoes

Single Hole Return Wear Shoes

Part Number	A	B	C	D	E	F
WTWS2001	4	3.5	1.31	2	-	0.5
WTWS2450	4	3.5	1.38	2	-	0.5
WTWS2550	4.5	3.5	1.38	2.25	-	0.5

NOTE: Dimensions in inches.



Double Hole Return Wear Shoes

Double Hole Return Wear Shoes

Part Number	A	B	C	D	E	F
WTWS3400	4	3.5	1.38	0.88	2	0.5
WTWS3450	4.5	3.5	1.38	0.88	1	0.5
WTWS3600	6	3.5	1.38	1.13	3.75	0.5

NOTE: Dimensions in inches.

Martin manufactures star wheels, guides and associated components in a variety of engineering plastics as well as metals, providing you with a single source for all your processing and packaging components.

Martin's 31 branch locations and vast manufacturing capabilities mean we can provide you with the convenience of working with one manufacturer who understands your needs and can ensure all parts work together as required as well as offering fast turnaround on all custom work.



Application:

- Beverage Bottling
- Pharmaceutical Packaging
- Canning
- Food Processing
- Glass Inspection Machines
- Labeling Machines
 - Cappers
 - Cleaners
 - Steamers
 - Fillers
 - Labelers
 - Coders
 - Pluggers
 - Pump Placers
 - Monoblock
 - Cottoners

Benefits of Plastic Components:

- Exceptional resistance to wear and abrasion
- Food grade approved material – FDA compliant
- High impact strength
- Corrosion and chemical resistance
- Self-lubricating, eliminating routine/costly maintenance
- Low co-efficient of friction
- Light weight – typically 1/7th the weight of steel
- High visibility colors for increased safety - Makes for easy identification of parts
- Significant noise reduction
- No loose hardware

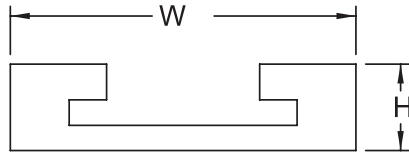
Mounting Options:

- **Standard** - Using OEM original bolt on method of securing and positioning parts.
- **Quick Change** - Requires one-time modifications to your machines to utilize quick change securing methods.



For a Fast & Free Quote
Contact your *Martin* Distributor
or visit martinsprocket.com

SolidTrack® Corner Track - Tab Design



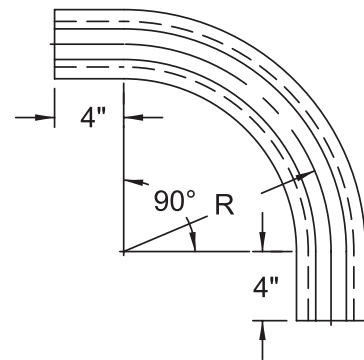
Corner Track – Tab Design

SolidTrack 90° Corners Tab Design with Extensions

UHMW — White

Part Number	Chain Number	Standard Radius R	W	H
CHNGCT1111NM	SS881T, D880T, D879T, K3-1/4	18", 24", 30"	4	1
CHNGCT1211NM	SS881T, D880T, D879T, K4-1/2	24", 30", 36"	5	1
CHNGCT1221NM	D882TLW K4-1/2	24", 30", 36"	5	1 - 3/8
CHNGCT1421NM	D882TLW K7-1/2	24", 30", 36"	8	1 - 3/8
CHNGCT1521NM	D882TLW K10	24", 30", 36"	10 -	1 - 3/8
CHNGCT1621NM	D882TLW K12	24", 30", 36"	12 -	1 - 3/8
CHNGCT1131NM	1873T, 1874T, K3-1/4	18", 24", 30"	4	1 - 3/8
CHNGCT1231NM	1873T, 1874T, K4-1/2	18", 24", 30"	5	1 - 3/8
CHNGCT1331NM	1873T, 1874T, K6	18", 24", 30"	6 -	1 - 3/8
CHNGCT1431NM	1873T, 1874T, K7-1/2	18", 24", 30"	8	1 - 3/8
CHNGCT1531NM	1873T K10	18", 24", 30"	10 -	1 - 3/8
CHNGCT1631NM	1873T K12	18", 24", 30"	12 -	1 - 3/8

NOTE: 4" straight extensions on each end.
Specify radius when ordering.
30° corner radius and above are furnished in two 45° segments.



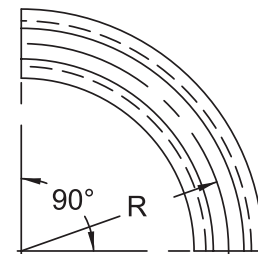
Corner Track – Tab Design
with Extensions

SolidTrack 90° Corners Tab Design without Extensions

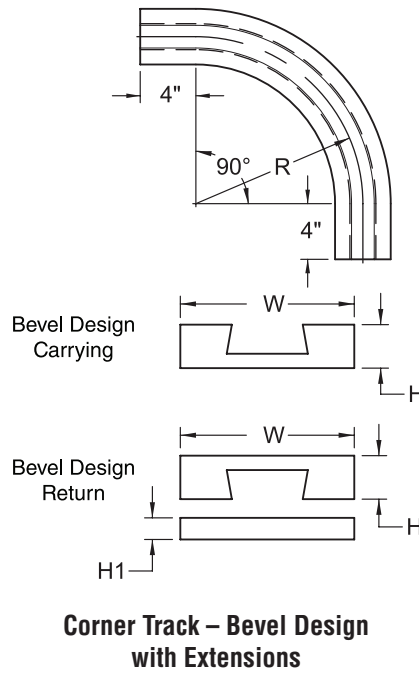
UHMW — White

Part Number	Chain Number	Standard Radius R	W	H
CHNGCT1113NM	SS881T, D880T, D879T, K3-1/4	18", 24", 30"	4	1
CHNGCT1213NM	SS881T, D880T, D879T, K4-1/2	24", 30", 36"	5	1
CHNGCT1223NM	D882TLW K4-1/2	24", 30", 36"	5	1 - 3/8
CHNGCT1423NM	D882TLW K7-1/2	24", 30", 36"	8	1 - 3/8
CHNGCT1523NM	D882TLW K10	24", 30", 36"	10 -	1 - 3/8
CHNGCT1623NM	D882TLW K12	24", 30", 36"	12 -	1 - 3/8
CHNGCT1133NM	1873T, 1874T, K3-1/4	18", 24", 30"	4	1 - 3/8
CHNGCT1233NM	1873T, 1874T, K4-1/2	18", 24", 30"	5	1 - 3/8
CHNGCT1333NM	1873T, 1874T, K6	18", 24", 30"	6 -	1 - 3/8
CHNGCT1433NM	1873T, 1874T, K7-1/2	18", 24", 30"	8	1 - 3/8
CHNGCT1533NM	1873T K10	18", 24", 30"	10 -	1 - 3/8
CHNGCT1633NM	1873T K12	18", 24", 30"	12 -	1 - 3/8

NOTE: Specify radius when ordering.
30° corner radius and above are furnished in two 45° segments.



Corner Track – Tab Design
without Extensions



SolidTrack 90° Corners – Carrying Bevel Design with Extensions

UHMW — White

Part Number	Chain Number	Standard Radius R	W	H
CHNGCB2111-18NM	SS881, D880, D879 K3-1/4	18"	4	1
CHNGCB2111-24NM	SS881, D880, D879 K3-1/4	24"	4	1
CHNGCB2111-30NM	SS881, D880, D879 K3-1/4	30"	4	1
CHNGCB2211-24NM	SS881, D880, D879 K4-1/2	24"	5	1
CHNGCB2211-30NM	SS881, D880, D879 K4-1/2	30"	5	1
CHNGCB2211-36NM	SS881, D880, D879 K4-1/2	36"	5	1

NOTE: 4" straight extensions on each end.
30° corner radius and above are furnished in two 45° segments.

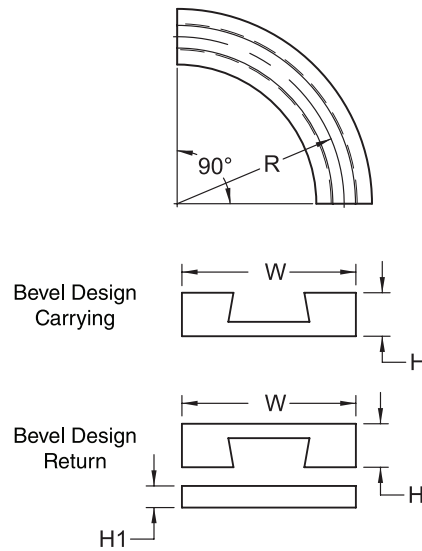
SolidTrack 90° Corners – Return Bevel Design with Extensions

UHMW — White

Part Number	Chain Number	Standard Radius R	W	H	H1
CHNGCB311118NM	SS881, D880, D879 K3-1/4	18"	4	1	0.625
CHNGCB311124NM	SS881, D880, D879 K3-1/4	24"	4	1	0.625
CHNGCB311130NM	SS881, D880, D879 K3-1/4	30"	4	1	0.625
CHNGCB321124NM	SS881, D880, D879 K4-1/2	24"	5	1	0.625
CHNGCB321130NM	SS881, D880, D879 K4-1/2	30"	5	1	0.625
CHNGCB321136NM	SS881, D880, D879 K4-1/2	36"	5	1	0.625

NOTE: 4" straight extensions on each end.
30° corner radius and above are furnished in two 45° segments.

SolidTrack® Corner Track - Bevel Design



**Corner Track – Bevel Design
without Extensions**

SolidTrack 90° Corners – Carrying Bevel Design without Extensions

UHMW — White

Part Number	Chain Number	Standard Radius R	W	H
CHNGCB211318NM	SS881, D880, D879 K3-1/4	18"	4	1
CHNGCB211324NM	SS881, D880, D879 K3-1/4	24"	4	1
CHNGCB211330NM	SS881, D880, D879 K3-1/4	30"	4	1
CHNGCB221324NM	SS881, D880, D879 K4-1/2	24"	5	1
CHNGCB221330NM	SS881, D880, D879 K4-1/2	30"	5	1
CHNGCB221336NM	SS881, D880, D879 K4-1/2	36"	5	1

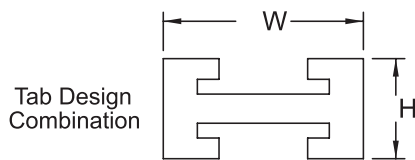
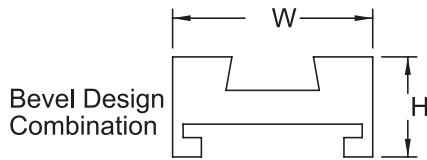
NOTE: 30° corner radius and above are furnished in two 45° segments.

SolidTrack 90° Corners – Return Bevel Design without Extensions

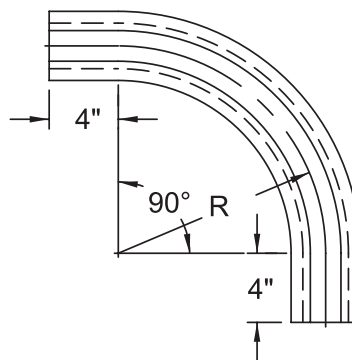
UHMW — White

Part Number	Chain Number	Standard Radius R	W	H	H1
CHNGCB311318NM	SS881, D880, D879 K3-1/4	18"	4	1	0.625
CHNGCB311324NM	SS881, D880, D879 K3-1/4	24"	4	1	0.625
CHNGCB311330NM	SS881, D880, D879 K3-1/4	30"	4	1	0.625
CHNGCB321324NM	SS881, D880, D879 K4-1/2	24"	5	1	0.625
CHNGCB321330NM	SS881, D880, D879 K4-1/2	30"	5	1	0.625
CHNGCB321336NM	SS881, D880, D879 K4-1/2	36"	5	1	0.625

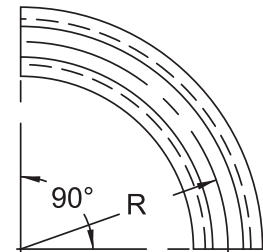
NOTE: 30° corner radius and above are furnished in two 45° segments.



**Corner Track
Combination Design**



**Corner Track – Tab Design
with Extensions**



**Corner Track – Tab Design
without Extensions**

SolidTrack 90° Corners – Combination Tab Design without Extensions

UHMW — White

Part Number	Chain Number	Standard Radius R	W	H
CHNGCCT1113NM	SS881T, D880T, D879T K3-1/4	18", 24", 30"	4	2.00
CHNGCCT1213NM	SS881T, D880T, D879T K4-1/2	24", 30", 36"	5	2.00
CHNGCCT1223NM	D882TLW K4-1/2	24", 30", 36"	5	2.63
CHNGCCT1423NM	D882TLW K7-1/2	24", 30", 36"	8	2.63
CHNGCCT1523NM	D882TLW K10	24", 30", 36"	10 - _	2.63
CHNGCCT1623NM	D882TLW K12	24", 30", 36"	12 - _	2.63
CHNGCCT1133NM	1873T, 1874T K3-1/4	18", 24", 30"	4	2.63
CHNGCCT1233NM	1873T, 1874T K4-1/2	18", 24", 30"	5	2.63
CHNGCCT1333NM	1873T, 1874T K6	18", 24", 30"	6 - _	2.63
CHNGCCT1433NM	1873T, 1874T K7-1/2	18", 24", 30"	8	2.63
CHNGCCT1533NM	1873T, 1874T K10	18", 24", 30"	10 - _	2.63
CHNGCCT1633NM	1873T, 1874T K12	18", 24", 30"	12 - _	2.63

NOTE: 4" straight extensions on each end.
30° corner radius and above are furnished in two 45° segments.

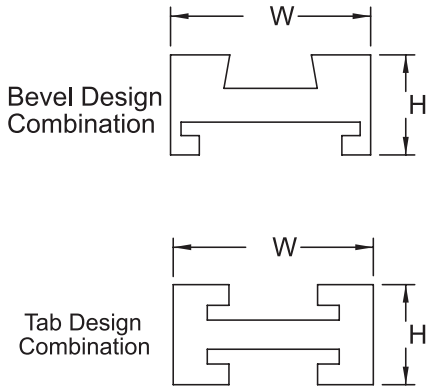
SolidTrack 90° Corners – Combination Bevel Design without Extensions

UHMW — White

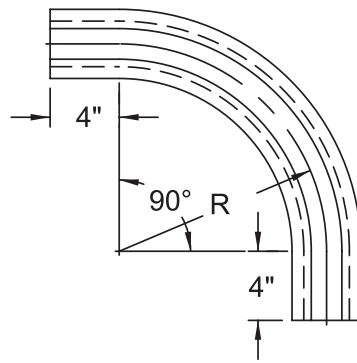
Part Number	Chain Number	Standard Radius R	W	H
CHNGCCB2113NM	SS881, D880, D879 K3-1/4	18", 24", 30"	4	2.00
CHNGCCB2213NM	SS881, D880, D879 K4-1/2	24", 30", 36"	5	2.00

NOTE: 4" straight extensions on each end.
30° corner radius and above are furnished in two 45° segments.

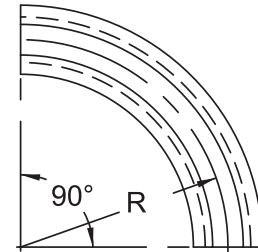
SolidTrack® Corner Track - Combination Design



**Corner Track
Combination Design**



**Corner Track – Tab Design
with Extensions**



**Corner Track – Tab Design
without Extensions**

SolidTrack 90° Corners – Combination Tab Design with Extensions

UHMW — White

Part Number	Chain Number	Standard Radius R	W	H
CHNGCCT1111NM	SS881T, D880T, D879T K3-1/4	18", 24", 30"	4	2.00
CHNGCCT1211NM	SS881T, D880T, D879T K4-1/2	24", 30", 36"	5	2.00
CHNGCCT1221NM	D882TLW K4-1/2	24", 30", 36"	5	2.63
CHNGCCT1421NM	D882TLW K7-1/2	24", 30", 36"	8	2.63
CHNGCCT1521NM	D882TLW K10	24", 30", 36"	10 - _	2.63
CHNGCCT1621NM	D882TLW K12	24", 30", 36"	12 - _	2.63
CHNGCCT1131NM	1873T, 1874T K3-1/4	18", 24", 30"	4	2.63
CHNGCCT1231NM	1873T, 1874T K4-1/2	18", 24", 30"	5	2.63
CHNGCCT1331NM	1873T, 1874T K6	18", 24", 30"	6 - _	2.63
CHNGCCT1431NM	1873T, 1874T K7-1/2	18", 24", 30"	8	2.63
CHNGCCT1531NM	1873T K10	18", 24", 30"	10 - _	2.63
CHNGCCT1631NM	1873T K12	18", 24", 30"	12 - _	2.63

NOTE: 4" straight extensions on each end.
30° corner radius and above are furnished in two 45° segments.

SolidTrack 90° Corners – Combination Bevel Design with Extensions

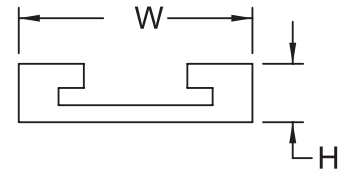
UHMW — White

Part Number	Chain Number	Standard Radius R	W	H
CHNGCCB2111NM	SS881, D880, D879 K3-1/4	18", 24", 30"	4	2.00
CHNGCCB2211NM	SS881, D880, D879 K4-1/2	24", 30", 36"	5	2.00

NOTE: 4" straight extensions on each end.
30° corner radius and above are furnished in two 45° segments.

SolidTrack – Straight Tab Design UHMW — White

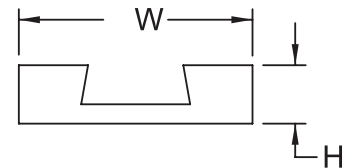
Part Number	Chain Number	Standard Radius R	W	H
CHNGST1112NM	SS881T, D880T, D879T K3-1/4	10'	4	1.00
CHNGST1212NM	SS881T, D880T, D879T K4-1/2	10'	5	1.00
CHNGST1222NM	D882TLW K4-1/2	10'	5	1.38
CHNGST1422NM	D882TLW K7-1/2	10'	8	1.38
CHNGST1522NM	D882TLW K10	10'	10 -	1.38
CHNGST1622NM	D882TLW K12	10'	12 -	1.38
CHNGST1132NM	1873T, 1874T, K3-1/4	10'	4	1.38
CHNGST1232NM	1873T, 1874T, K4-1/2	10'	5	1.38
CHNGST1332NM	1873T, 1874T, K6	10'	6 -	1.38
CHNGST1432NM	1873T, 1874T, K7-1/2	10'	8	1.38
CHNGST1532NM	1873T K10	10'	10 -	1.38
CHNGST1632NM	1873T K12	10'	12 -	1.38



Straight Track – Tab Design

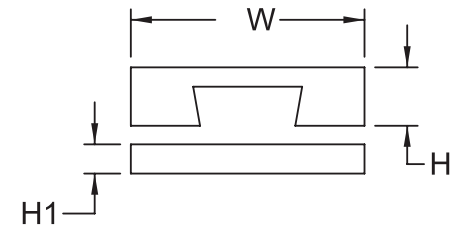
SolidTrack Straight – Carrying Bevel Design UHMW — White

Part Number	Chain Number	Standard Radius R	W	H
CHNGSB2112NM	SS881, D880, D879, K3-1/4	10'	4	1.00
CHNGSB2212NM	SS881, D880, D879, K4-1/2	10'	5	1.00



SolidTrack Straight – Return Bevel Design UHMW — White

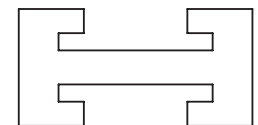
Part Number	Chain Number	Standard Radius R	W	H	H1
CHNGSB3112NM	SS881, D880, D879, K3-1/4	10'	4	1.00	0.625
CHNGSB3212NM	SS881, D880, D879, K4-1/2	10'	5	1.00	0.625



Straight Track – Bevel Design

SolidTrack Straight – Combination Tab Design UHMW — White

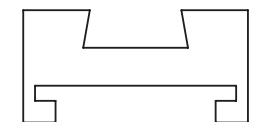
Part Number	Chain Number	Standard Lengths
CHNGSC1112NM	SS881T, D880T, D879T K3-1/4	10'
CHNGSC1212NM	SS881T, D880T, D879T K4-1/2	10'
CHNGSC1222NM	D882TLW K4-1/2	10'
CHNGSC1422NM	D882TLW K7-1/2	10'
CHNGSC1522NM	D882TLW K10	10'
CHNGSC1622NM	D882TLW K12	10'
CHNGSC1132NM	1873T, 1874T, K3-1/4	10'
CHNGSC1232NM	1873T, 1874T, K4-1/2	10'
CHNGSC1332NM	1873T, 1874T, K6	10'
CHNGSC1432NM	1873T, 1874T, K7-1/2	10'
CHNGSC1532NM	1873T K10	10'
CHNGSC1632NM	1873T K12	10'



Straight Track – Tab Design Combination

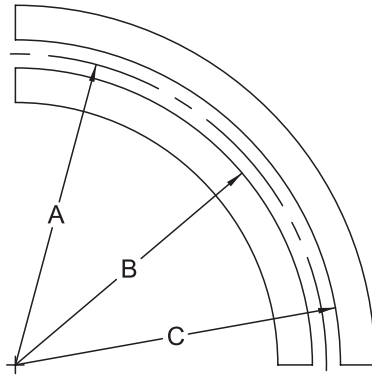
SolidTrack Straight – Combination Bevel Design UHMW — White

Part Number	Chain Number	Standard Lengths
CHNGSC2112NM	SS881, D880, D879, K3-1/4	10'
CHNGSC2212NM	SS881, D880, D879, K4-1/2	10'

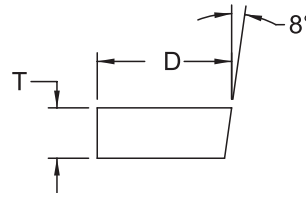


Straight Track – Bevel Design Combination

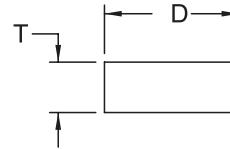
Radius Curve Wearstrip For Flat Top Chain



Radius Curve Wearstrip



Bevel Chain Design



Tab Chain Design

Radius Curve Wearstrip

Bevel Design

UHMW — White

Part Number	Wearstrip No.	Chain No.	Nom. Corner Radius A	Track Radius		Width D	Thickness T (+0, -1/16)
				Inside B	Outside C		
CHNGWB1813NM	U18B3	880, 881	18	17.1875	18.8125	1.00	0.375
CHNGWB2413NM	U24B3	880, 881	24	23.1875	24.8125	1.00	0.375
CHNGWB3013NM	U30B3	880, 881	30	29.1875	30.8125	1.50	0.375
CHNGWB2415NM	U24B5	882	24	22.859375	25.140625	1.50	0.625
CHNGWB3015NM	U30B5	882	30	28.859375	31.140625	1.50	0.625

NOTE: 30° radius furnished in two 45° segments to make one 90° segment. All others are 90° segment. Dimensions in inches.

Radius Curve Wearstrip

Tab Design

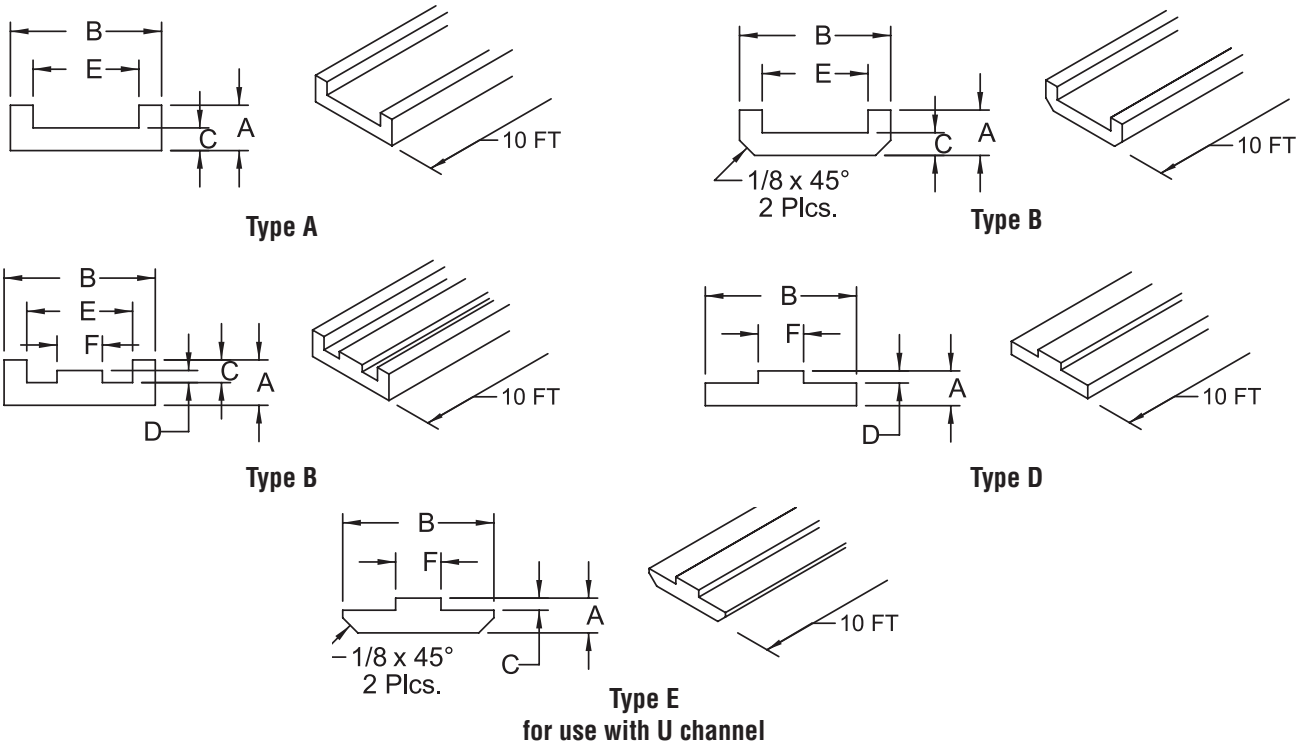
UHMW — White

Part Number	Wearstrip No.	Chain No.	Nom. Corner Radius A	Track Radius		Width D	Thickness T (+0, -1/16)
				Inside B	Outside C		
CHNGWT1803NM	U18R3	880, 881	18	17.125	18.875	1.50	0.375
CHNGWT2403NM	U24R3	880, 881	24	23.125	24.875	1.50	0.375
CHNGWT3003NM	U30R3	880, 881	30	29.125	30.875	1.50	0.375
CHNGWT2405NM	U24R5	882	24	22.859375	25.140625	1.50	0.625
CHNGWT3005NM	U30R5	882	30	28.859375	31.140625	1.50	0.625
CHNGWT1806NM	U18R6	1873, 1874, 3873	18	17.3125	18.6875	1.50	0.75
CHNGWT2406NM	U24R6	1873, 1874, 3873	24	23.3125	24.6875	1.50	0.75
CHNGWT3006NM	R30R6	1873, 1874, 3873	30	29.3125	30.6875	1.50	0.75

NOTE: 30° radius furnished in two 45° segments to make one 90° segment. All others are 90° segment. Dimensions in inches.



SolidTrack® Straight Track - Tab, Bevel & Combination Design



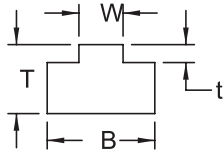
Chain Guide Raceway

UHMW — White

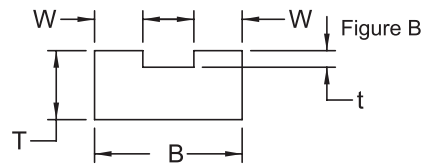
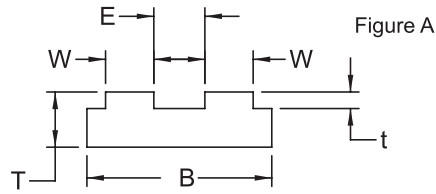
Part Number	Type	ANSI Chain No.	A Minimum	B Minimum	C	D	E	F
CHNGR1040NM	A	2040	0.31	1.25	0.19	-	0.88	-
CHNGR1050NM	A	2050	0.38	1.25	0.22	-	1.00	-
CHNGR1060NM	A	2060	0.38	1.50	0.19	-	1.25	-
CHNGR1080NM	A	2080	0.50	2.00	0.25	-	1.56	-
CHNGR1100NM	A	2100	0.63	2.25	0.31	-	1.88	-
CHNGR1120NM	A	2120	0.63	2.75	0.25	-	2.25	-
CHNGR1003NM	A	H78/S188	1.25	4.25	0.38	-	3.50	-
CHNGR1004NM	A	81X/1578	1.00	3.00	0.38	-	2.50	-
CHNGR0040NM	B	2040	0.31	1.25	0.19	-	0.88	-
CHNGR0050NM	B	2050	0.38	1.25	0.22	-	1.00	-
CHNGR0060NM	B	2060	0.38	1.50	0.19	-	1.25	-
CHNGR0080NM	B	2080	0.50	2.00	0.25	-	1.56	-
CHNGR0100NM	B	2100	0.63	2.25	0.31	-	1.88	-
CHNGR0120NM	B	2120	0.63	2.75	0.25	-	2.25	-
CHNGR2040NM	C	2040	0.31	1.00	0.14	0.08	0.69	0.25
CHNGR2050NM	C	2050	0.38	1.25	0.81	0.10	0.81	0.31
CHNGR2060NM	C	2060	0.50	1.50	0.21	0.12	1.13	0.44
CHNGR2080NM	C	2080	0.50	2.00	0.25	0.13	1.44	0.56
CHNGR5040NM	D	2040	0.31	1.00	0.08	-	-	0.25
CHNGR5050NM	D	2050	0.31	1.25	0.10	-	-	0.31
CHNGR5060NM	D	2060	0.31	1.25	0.12	-	-	0.44
CHNGR5080NM	D	2080	0.38	1.50	0.13	-	-	0.56
CHNGR5100NM	D	2100	0.50	2.00	0.21	-	-	0.69
CHNGR5120NM	D	2120	0.50	2.25	0.26	-	-	0.94
CHNGR6040NM	E	2040	0.31	1.00	0.80	-	-	0.25
CHNGR6050NM	E	2050	0.31	1.25	0.10	-	-	0.31
CHNGR6060NM	E	2060	0.31	1.25	0.12	-	-	0.44
CHNGR6080NM	E	2080	0.38	1.50	0.13	-	-	0.56
CHNGR6100NM	E	2100	0.50	2.00	0.21	-	-	0.69
CHNGR6120NM	E	2120	0.50	2.25	0.26	-	-	0.94

NOTE: 30° radius furnished in two 45° segments to make one 90° segment. All others are 90° segment. Dimensions in inches.

UltraTrac Chain Guides For ANSI Standard Roller Chain



UltraTrac Chain Guide – Type T



UltraTrac Chain Guide – Type TD

Type T For ANSI Standard Roller Chain

UHMW — White

Part Number	ANSI Chain No.	B	T	W	t
CHNGUTT2825NM	25	0.78	0.59	0.10	0.09
CHNGUTT2835NM	35	0.78	0.59	0.17	0.10
CHNGUTT2840NM	40	0.78	0.59	0.29	0.10
CHNGUTT2850NM	50	0.78	0.59	0.36	0.12
CHNGUTT2860NM	60	1.10	0.59	0.47	0.15
CHNGUTT2880NM	80	1.34	0.71	0.60	0.18
CHNGUTT2810NM	100	1.61	1.00	0.72	0.26
CHNGUTT2812NM	120	2.01	1.25	0.96	0.31
CHNGUTT2814NM	140	2.17	1.50	0.96	0.36
CHNGUTT2816NM	160	2.61	1.50	1.21	0.42
CHNGUTT2818NM	180	2.88	1.50	1.35	0.47

NOTE: Standard guide length is 10 ft.
Dimensions in inches

Type TD For Double Strand ANSI Standard Roller Chain

UHMW — White

Part Number	ANSI Chain No.	B	T	W	t	E	Fig.
CHNGUTTD2925NM	25-2	0.78	0.59	0.1	0.09	0.15	A
CHNGUTTD2935NM	35-2	0.78	0.59	0.17	0.1	0.23	A
CHNGUTTD2940NM	40-2	0.85	0.59	0.29	0.1	0.27	B
CHNGUTTD2950NM	50-2	1.07	0.59	0.35	0.12	0.37	B
CHNGUTTD2960NM	60-2	1.34	0.59	0.47	0.15	0.4	B
CHNGUTTD2980NM	80-2	1.75	0.71	0.6	0.18	0.55	B

NOTE: Standard guide length is 10 ft.
Dimensions in inches



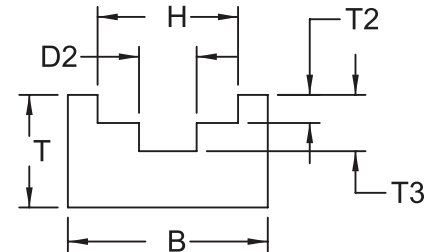
UltraTrac Chain Guides For ANSI Standard Roller Chain

Type U For ANSI Standard Roller Chain

UHMW — White

Part Number	ANSI Chain No.	B	T	T2	T3	D2	H
CHNGUTU3025NM	25	0.78	0.59	0.09	0.13	0.12	0.27
CHNGUTU3035NM	35	0.78	0.59	0.15	0.22	0.16	0.39
CHNGUTU3040NM	40/2040	0.78	0.59	0.18	0.26	0.21	0.51
CHNGUTU3050NM	50/2050	1.10	0.71	0.24	0.35	0.28	0.67
CHNGUTU3060NM	60/2060	1.10	0.71	0.28	0.41	0.32	0.78
CHNGUTU3080NM	80/2080	1.50	0.79	0.30	0.47	0.43	1.04

NOTE: Standard guide length is 10 ft.
Dimensions in inches.



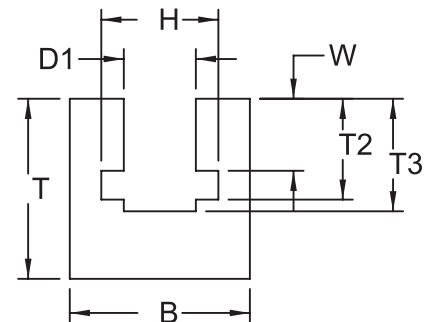
UltraTrac Chain Guide – Type U

Type K For ANSI Standard Roller Chain

UHMW — White

Part Number	ANSI Chain No.	B	T	T2	T3	D1	H
CHNGUTK3125NM	25	0.78	0.88	0.10	0.24	0.15	0.27
CHNGUTK3135NM	35	0.78	0.88	0.17	0.40	0.22	0.39
CHNGUTK3140NM	40/2040	1.10	1.05	0.29	0.52	0.33	0.51
CHNGUTK3150NM	50/2050	1.50	1.43	0.35	0.61	0.42	0.67
CHNGUTK3160NM	60/2060	1.50	1.85	0.47	0.88	0.49	0.78
CHNGUTK3180NM	80/2080	1.50	2.45	0.60	1.19	0.65	1.04

NOTE: Standard guide length is 10 ft.
Dimensions in inches.



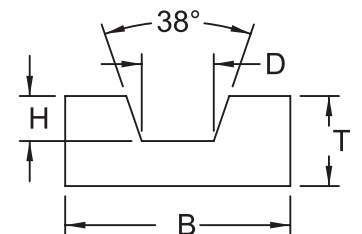
UltraTrac Chain Guide – Type U

Type U For ANSI Standard Roller Chain

UHMW — White

Part Number	ANSI Chain No.	B	T	T2	T3	D1	H
CHNGUTU3025NM	25	0.78	0.59	0.09	0.13	0.12	0.27
CHNGUTU3035NM	35	0.78	0.59	0.15	0.22	0.16	0.39
CHNGUTU3040NM	40/2040	0.78	0.59	0.18	0.26	0.21	0.51
CHNGUTU3050NM	50/2050	1.10	0.71	0.24	0.35	0.28	0.67
CHNGUTU3060NM	60/2060	1.10	0.71	0.28	0.41	0.32	0.78
CHNGUTU3080NM	80/2080	1.50	0.79	0.30	0.47	0.43	1.04

NOTE: Standard guide length is 10 ft.
Dimensions in inches.



UltraTrac Chain Guide – Type U

UltraTrac Chain Guides For ANSI Standard Roller Chain



MATERIAL	COMMON APPLICATIONS
UHMW	
<ul style="list-style-type: none"> • Excellent abrasion resistance • Low co-efficient of friction • Shear strength of approximately 3,500 psi • Flexural mod. of approximately 125,000 psi • Economical • Floats in water • Two common types: <ul style="list-style-type: none"> » Natural virgin <ul style="list-style-type: none"> – Food applications » Black reprocessed <ul style="list-style-type: none"> – Resistant to UV degradation – Slightly less expensive – May have multi-colored specks 	<ul style="list-style-type: none"> • Wear strips • Chain guide • Conveyor beds • Large structural components • RC sprockets (usually 50 series and larger) • Mill Sprockets (Engineering Class) (nearly always black reprocessed UHMW) • Bushings
Nylon	
<ul style="list-style-type: none"> • Good abrasion resistance • Excellent PV value for bearing applications • Shear strength of approximately 10,500 psi • Flexural mod. of approximately 500,000 psi • Mid-priced • Does not float in water • Will absorb moisture resulting in dimensional changes and reduced strength • Several common types: <ul style="list-style-type: none"> » Natural <ul style="list-style-type: none"> – Food applications » MD filled (dark grey color) <ul style="list-style-type: none"> – High load bushings » Oil-filled (natural or green color) <ul style="list-style-type: none"> – Gears, bushings, other sliding wear components 	<ul style="list-style-type: none"> • High temperature wear strips • Small structural components • Bushings • Spur Gears • RC sprockets (usually 50 series and smaller)
Acetal	
<ul style="list-style-type: none"> • Typically used for structural components • Not great for wear applications • Shear strength of approximately 8,000 psi • Flexural mod. of approximately 400,000 psi • Mid-priced • Does not float in water • Does not absorb moisture, good dimensional stability • Also known as DuPont® Delrin® acetal resin. • Available in white, or black. 	<ul style="list-style-type: none"> • High temperature wear strips • Small structural components • RC sprockets (usually 50 series and smaller). • Bushings • Spur gears • Components of food processing equipment exposed to wet environments clamps, rollers, dies.

DuPont® and Delrin® is a registered trademarks or trademarks of E. I. du Pont de Nemours and Company or its affiliates.

HEAVY-DUTY CONVEYOR PULLEYS

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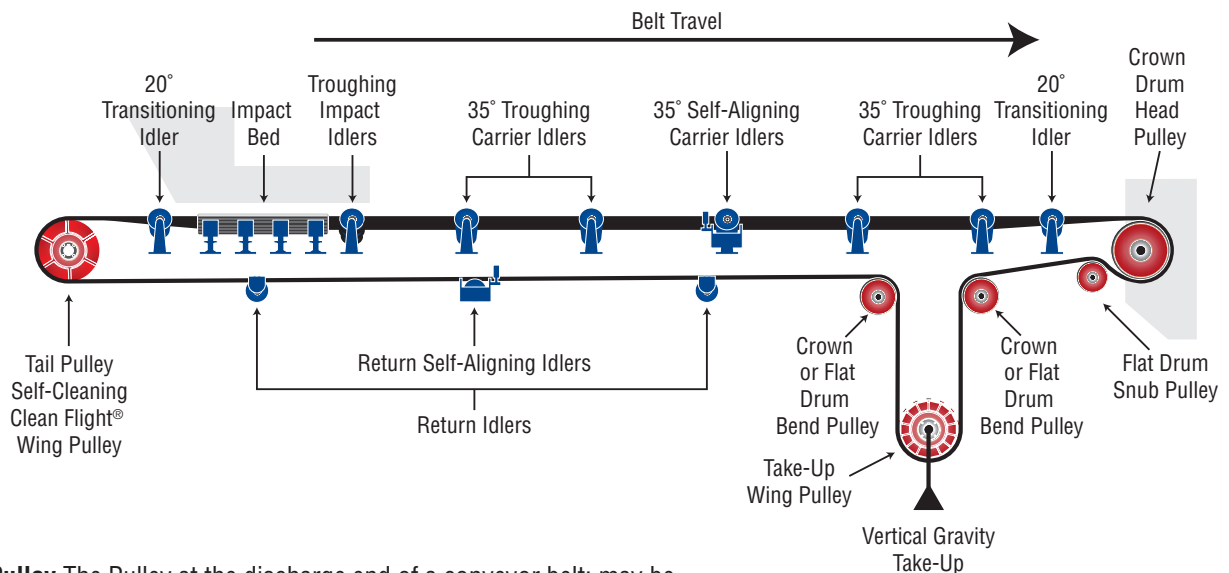
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Martin now offers a comprehensive line of Conveyor Pulleys for your bulk material handling needs. Broadening our offering without compromising quality on:

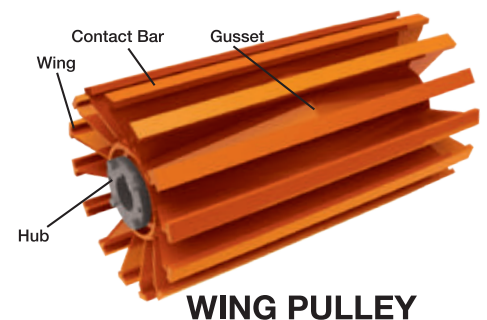
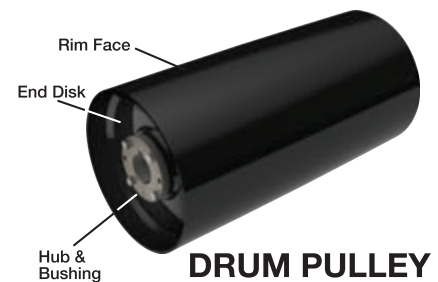
- Drum Pulleys
 - Lagged and Plain
- Wing Pulleys
- Bushings
- Shafting
- Wear Items
- Take-Up Frames
- Specialty Pulleys

Experience the *Martin* difference: All of *Martin*'s Conveyor Pulleys meet or exceed CEMA standards for construction. Our Pulleys are the heaviest and most durable in the industry.

Conveyor Components Locations and Terminology



- 1. Head Pulley** The Pulley at the discharge end of a conveyor belt; may be either an Idler or a Drive Pulley. Usually it has a larger diameter than other Pulleys in the System and is often lagged to increase traction and Pulley life.
- 2. Snub Pulley** Mounted close to the Drive Pulley on the return side of the belt, the Snub Pulley's primary job is to increase the angle of wrap around the Drive Pulley, thereby increasing traction. Its secondary purpose is reducing belt tension, which is important in maximizing conveyor component life. The Snub Pulley may be lagged for longer wear life.
- 3. Take-Up Bend Pulley** The Bend Pulley is used for changing the direction of the belt running to the gravity take-up. May be lagged for longer wear life.
- 4. Take-Up Pulley** An adjustable Idler Pulley made to accommodate changes in the length of a conveyor belt to maintain proper tension.
- 5. Tail Pulley** A Pulley at the tail of the belt conveyor opposite the normal discharge end; may be Drive Pulley or an Idler Pulley.
- 6. Return Idler** The Idler or roller on which the conveyor belt rides after the load which it was carrying has been dumped.



Martin Sales and Engineering will work with you to completely solve your belt conveying needs. The following pages will assist you in selecting most of the components for your conveyor. Since there are infinite amounts of conveying possibilities and configurations our sales and engineering staff are prepared to assist you with a custom solution.

Conveyor Pulley Nomenclature



Face

- C Crown
- F Flat

Pulley Type

- MES** *Martin* Elite Series
 - S Standard
 - M Mine Duty
 - Q Quarry Duty
- QAR** Quarry Duty AR
 - E Engineered Class

Pulley Style

- Leave blank for *Martin* Elite Series
- D Drum
 - W Wing
 - CF Clean Flight®

Diameter

3 digit for most pulleys, 2 digits for *Martin* Elite Series.
 Example:
120 12.0"
065 6.5"

Face Width

In Inches

M-4

C S D 120 26 X25 L 3 H

Lagging Style

If no letter, lagging is smooth

- H Herringbone
- D Diamond Groove
- C Ceramic
- No thickness specified
- S Slide Lagging
- R Radial/Circumferential
- P Parallel (with shaft)

Lagging Thickness

2 1/4"	4 1/2"	6 3/4"
3 3/8"	5 5/8"	

Lagging

No suffix, no lagging

Bushing Part Number

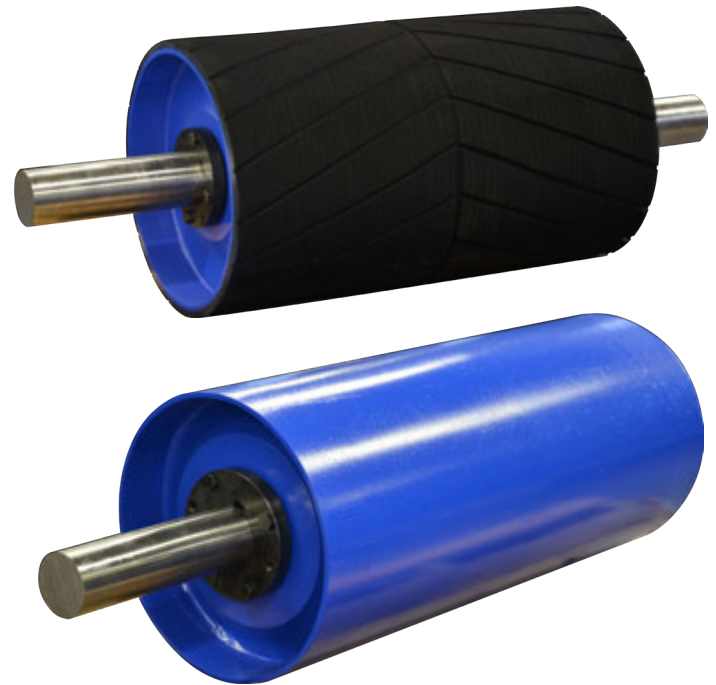
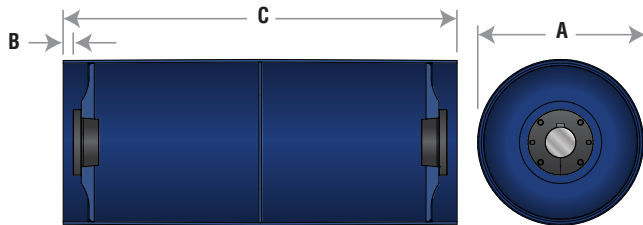
Conveyor pulleys SHOULD use SHORT QD bushings and *Martin* Elite Series will handle any MXT bushing

- X25, X30,...** MXT Bushing
- SF, E, F, JS,...** QD Bushing
- K20, K25,...** TB Bushing
- H25, H30,...** M-HE Bushing

Martin Elite Series Pulleys are engineered to offer an efficient and improved alternative to standard stock Drum Pulleys. Martin Elite Series Pulleys simplify the selection as they can be used in a wide range of applications from standard, mine and quarry duty, thus reducing your replacement inventory. Instead of deciding what might be the best pulley for your application, now you have one choice that conveys them all.

Martin are designed to meet today's demanding applications by offering the following standard benefits:

- **Profiled Integral End Plates:** True-Turbine profile end plates that distribute stress more evenly. Moves stress away from the hub and reduces the risk of failure.
- **Weldment:** Submerged arc welding with machined-in weld preparation provides maximum weld penetration.
- **Optimization:** Stocked with MXT Bushings but available for Keyless Locking Devices.



Martin Elite Series Drum Pulleys are manufactured with Crown face. Flat face available upon request.

Martin Elite Series Pulleys – No Lagging

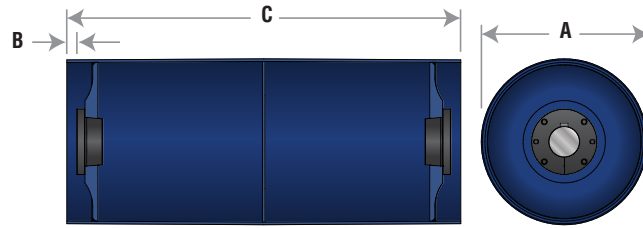
Diameter A	Part Number	Face C	Bushing	Max Bore	Setback B*	Approx. Weight (lb)
14	CMES1420X25	20	MXT25	2.5	0.750	112
14	CMES1420X30	20	MXT30	3.0	0.875	110
14	CMES1420X35	20	MXT35	3.5	0.875	108
14	CMES1426X25	26	MXT25	2.5	0.750	131
14	CMES1426X30	26	MXT30	3.0	0.875	129
14	CMES1426X35	26	MXT35	3.5	0.875	127
14	CMES1432X25	32	MXT25	2.5	0.750	156
14	CMES1432X30	32	MXT30	3.0	0.875	154
14	CMES1432X35	32	MXT35	3.5	0.875	152
14	CMES1438X25	38	MXT25	2.5	0.750	174
14	CMES1438X30	38	MXT30	3.0	0.875	172
14	CMES1438X35	38	MXT35	3.5	0.875	170
14	CMES1444X25	44	MXT25	2.5	0.750	199
14	CMES1444X30	44	MXT30	3.0	0.875	197
14	CMES1444X35	44	MXT35	3.5	0.875	195
14	CMES1451X25	51	MXT25	2.5	0.750	221
14	CMES1451X30	51	MXT30	3.0	0.875	219
14	CMES1451X35	51	MXT35	3.5	0.875	217
14	CMES1457X25	57	MXT25	2.5	0.750	239
14	CMES1457X30	57	MXT30	3.0	0.875	237
14	CMES1457X35	57	MXT35	3.5	0.875	235
14	CMES1463X25	63	MXT25	2.5	0.750	264
14	CMES1463X30	63	MXT30	3.0	0.875	262
14	CMES1463X35	63	MXT35	3.5	0.875	260
16	CMES1620X25	20	MXT25	2.5	0.750	135
16	CMES1620X30	20	MXT30	3.0	0.875	133
16	CMES1620X35	20	MXT35	3.5	0.875	129
16	CMES1620X40	20	MXT40	4.0	1.000	149

Martin Elite Series Pulleys – No Lagging

Diameter A	Part Number	Face C	Bushing	Max Bore	Setback B*	Approx. Weight (lb)
16	CMES1626X25	26	MXT25	2.5	0.750	157
16	CMES1626X30	26	MXT30	3.0	0.875	155
16	CMES1626X35	26	MXT35	3.5	0.875	151
16	CMES1626X40	26	MXT40	4.0	1.000	171
16	CMES1632X25	32	MXT25	2.5	0.750	185
16	CMES1632X30	32	MXT30	3.0	0.875	183
16	CMES1632X35	32	MXT35	3.5	0.875	179
16	CMES1632X40	32	MXT40	4.0	1.000	199
16	CMES1638X25	38	MXT25	2.5	0.750	206
16	CMES1638X30	38	MXT30	3.0	0.875	204
16	CMES1638X35	38	MXT35	3.5	0.875	200
16	CMES1638X40	38	MXT40	4.0	1.000	220
16	CMES1644X25	44	MXT25	2.5	0.750	235
16	CMES1644X30	44	MXT30	3.0	0.875	233
16	CMES1644X35	44	MXT35	3.5	0.875	229
16	CMES1644X40	44	MXT40	4.0	1.000	249
16	CMES1651X25	51	MXT25	2.5	0.750	260
16	CMES1651X30	51	MXT30	3.0	0.875	258
16	CMES1651X35	51	MXT35	3.5	0.875	254
16	CMES1651X40	51	MXT40	4.0	1.000	274
16	CMES1657X25	57	MXT25	2.5	0.750	281
16	CMES1657X30	57	MXT30	3.0	0.875	279
16	CMES1657X35	57	MXT35	3.5	0.875	275
16	CMES1657X40	57	MXT40	4.0	1.000	295
16	CMES1663X25	63	MXT25	2.5	0.750	310
16	CMES1663X30	63	MXT30	3.0	0.875	308
16	CMES1663X35	63	MXT35	3.5	0.875	304
16	CMES1663X40	63	MXT40	4.0	1.000	324

* General position for Bushing face - for position per application consult Martin.

Martin Elite Series Drum Pulleys



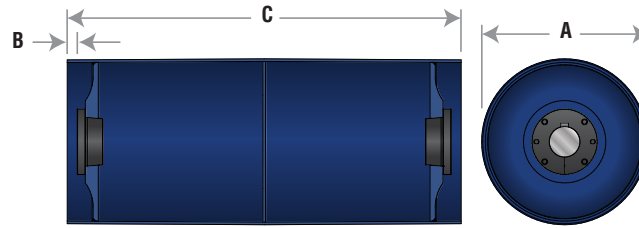
Martin Elite Series Pulleys – No Lagging

Diameter A	Part Number	Face C	Bushing	Max Bore	Setback B*	Approx. Weight (lb)
18	CMES1820X25	20	MXT25	2.5	0.750	156
18	CMES1820X30	20	MXT30	3.0	0.875	154
18	CMES1820X35	20	MXT35	3.5	0.875	154
18	CMES1820X40	20	MXT40	4.0	1.000	176
18	CMES1820X45	20	MXT45	4.5	1.000	184
18	CMES1826X25	26	MXT25	2.5	0.750	180
18	CMES1826X30	26	MXT30	3.0	0.875	178
18	CMES1826X35	26	MXT35	3.5	0.875	178
18	CMES1826X40	26	MXT40	4.0	1.000	200
18	CMES1826X45	26	MXT45	4.5	1.000	208
18	CMES1832X25	32	MXT25	2.5	0.750	211
18	CMES1832X30	32	MXT30	3.0	0.875	209
18	CMES1832X35	32	MXT35	3.5	0.875	209
18	CMES1832X40	32	MXT40	4.0	1.000	231
18	CMES1832X45	32	MXT45	4.5	1.000	239
18	CMES1838X25	38	MXT25	2.5	0.750	236
18	CMES1838X30	38	MXT30	3.0	0.875	234
18	CMES1838X35	38	MXT35	3.5	0.875	234
18	CMES1838X40	38	MXT40	4.0	1.000	256
18	CMES1838X45	38	MXT45	4.5	1.000	264
18	CMES1844X25	44	MXT25	2.5	0.750	267
18	CMES1844X30	44	MXT30	3.0	0.875	265
18	CMES1844X35	44	MXT35	3.5	0.875	265
18	CMES1844X40	44	MXT40	4.0	1.000	287
18	CMES1844X45	44	MXT45	4.5	1.000	295
18	CMES1851X25	51	MXT25	2.5	0.750	295
18	CMES1851X30	51	MXT30	3.0	0.875	293
18	CMES1851X35	51	MXT35	3.5	0.875	293
18	CMES1851X40	51	MXT40	4.0	1.000	315
18	CMES1851X45	51	MXT45	4.5	1.000	323
18	CMES1857X25	57	MXT25	2.5	0.750	319
18	CMES1857X30	57	MXT30	3.0	0.875	317
18	CMES1857X35	57	MXT35	3.5	0.875	317
18	CMES1857X40	57	MXT40	4.0	1.000	339
18	CMES1857X45	57	MXT45	4.5	1.000	347
18	CMES1863X25	63	MXT25	2.5	0.750	350
18	CMES1863X30	63	MXT30	3.0	0.875	348
18	CMES1863X35	63	MXT35	3.5	0.875	348
18	CMES1863X40	63	MXT40	4.0	1.000	370
18	CMES1863X45	63	MXT45	4.5	1.000	378
20	CMES2020X25	20	MXT25	2.5	0.750	183
20	CMES2020X30	20	MXT30	3.0	0.875	181
20	CMES2020X35	20	MXT35	3.5	0.875	173
20	CMES2020X40	20	MXT40	4.0	1.000	195
20	CMES2020X45	20	MXT45	4.5	1.000	213
20	CMES2020X50	20	MXT50	5.0	1.000	296
20	CMES2026X25	26	MXT25	2.5	0.750	210
20	CMES2026X30	26	MXT30	3.0	0.875	208

Martin Elite Series Pulleys – No Lagging

Diameter A	Part Number	Face C	Bushing	Max Bore	Setback B*	Approx. Weight (lb)
20	CMES2026X35	26	MXT35	3.5	0.875	200
20	CMES2026X40	26	MXT40	4.0	1.000	222
20	CMES2026X45	26	MXT45	4.5	1.000	240
20	CMES2026X50	26	MXT50	5.0	1.000	336
20	CMES2032X25	32	MXT25	2.5	0.750	245
20	CMES2032X30	32	MXT30	3.0	0.875	243
20	CMES2032X35	32	MXT35	3.5	0.875	235
20	CMES2032X40	32	MXT40	4.0	1.000	257
20	CMES2032X45	32	MXT45	4.5	1.000	275
20	CMES2032X50	32	MXT50	5.0	1.000	384
20	CMES2038X25	38	MXT25	2.5	0.750	271
20	CMES2038X30	38	MXT30	3.0	0.875	269
20	CMES2038X35	38	MXT35	3.5	0.875	261
20	CMES2038X40	38	MXT40	4.0	1.000	283
20	CMES2038X45	38	MXT45	4.5	1.000	301
20	CMES2038X50	38	MXT50	5.0	1.000	424
20	CMES2044X25	44	MXT25	2.5	0.750	306
20	CMES2044X30	44	MXT30	3.0	0.875	304
20	CMES2044X35	44	MXT35	3.5	0.875	296
20	CMES2044X40	44	MXT40	4.0	1.000	318
20	CMES2044X45	44	MXT45	4.5	1.000	336
20	CMES2044X50	44	MXT50	5.0	1.000	472
20	CMES2051X25	51	MXT25	2.5	0.750	337
20	CMES2051X30	51	MXT30	3.0	0.875	335
20	CMES2051X35	51	MXT35	3.5	0.875	327
20	CMES2051X40	51	MXT40	4.0	1.000	349
20	CMES2051X45	51	MXT45	4.5	1.000	367
20	CMES2051X50	51	MXT50	5.0	1.000	519
20	CMES2057X25	57	MXT25	2.5	0.750	364
20	CMES2057X30	57	MXT30	3.0	0.875	362
20	CMES2057X35	57	MXT35	3.5	0.875	354
20	CMES2057X40	57	MXT40	4.0	1.000	376
20	CMES2057X45	57	MXT45	4.5	1.000	394
20	CMES2057X50	57	MXT50	5.0	1.000	559
20	CMES2063X25	63	MXT25	2.5	0.750	399
20	CMES2063X30	63	MXT30	3.0	0.875	397
20	CMES2063X35	63	MXT35	3.5	0.875	389
20	CMES2063X40	63	MXT40	4.0	1.000	411
20	CMES2063X45	63	MXT45	4.5	1.000	429
20	CMES2063X50	63	MXT50	5.0	1.000	607
24	CMES2420X30	20	MXT30	3.0	0.875	245
24	CMES2420X35	20	MXT35	3.5	0.875	245
24	CMES2420X40	20	MXT40	4.0	1.000	255
24	CMES2420X45	20	MXT45	4.5	1.000	285
24	CMES2420X50	20	MXT50	5.0	1.000	380
24	CMES2420X60	20	MXT60	6.0	1.125	364
24	CMES2426X30	26	MXT30	3.0	0.875	277
24	CMES2426X35	26	MXT35	3.5	0.875	277

* General position for Bushing face - for position per application consult *Martin*.



Martin Elite Series Pulleys – No Lagging

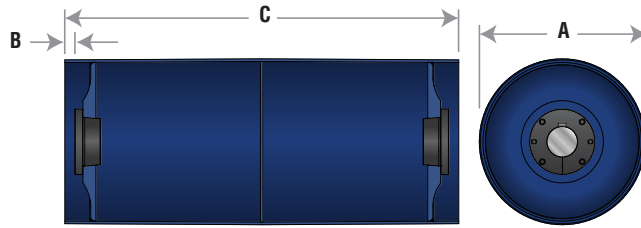
Diameter A	Part Number	Face C	Bushing	Max Bore	Setback B*	Approx. Weight (lb)
24	CMES2426X40	26	MXT40	4.0	1.000	287
24	CMES2426X45	26	MXT45	4.5	1.000	317
24	CMES2426X50	26	MXT50	5.0	1.000	428
24	CMES2426X60	26	MXT60	6.0	1.125	412
24	CMES2432X30	32	MXT30	3.0	0.875	319
24	CMES2432X35	32	MXT35	3.5	0.875	319
24	CMES2432X40	32	MXT40	4.0	1.000	329
24	CMES2432X45	32	MXT45	4.5	1.000	359
24	CMES2432X50	32	MXT50	5.0	1.000	486
24	CMES2432X60	32	MXT60	6.0	1.125	470
24	CMES2438X30	38	MXT30	3.0	0.875	351
24	CMES2438X35	38	MXT35	3.5	0.875	351
24	CMES2438X40	38	MXT40	4.0	1.000	361
24	CMES2438X45	38	MXT45	4.5	1.000	391
24	CMES2438X50	38	MXT50	5.0	1.000	535
24	CMES2438X60	38	MXT60	6.0	1.125	519
24	CMES2444X30	44	MXT30	3.0	0.875	393
24	CMES2444X35	44	MXT35	3.5	0.875	393
24	CMES2444X40	44	MXT40	4.0	1.000	403
24	CMES2444X45	44	MXT45	4.5	1.000	433
24	CMES2444X50	44	MXT50	5.0	1.000	593
24	CMES2444X60	44	MXT60	6.0	1.125	577
24	CMES2451X30	51	MXT30	3.0	0.875	430
24	CMES2451X35	51	MXT35	3.5	0.875	430
24	CMES2451X40	51	MXT40	4.0	1.000	440
24	CMES2451X45	51	MXT45	4.5	1.000	470
24	CMES2451X50	51	MXT50	5.0	1.000	649
24	CMES2451X60	51	MXT60	6.0	1.125	633
24	CMES2457X30	57	MXT30	3.0	0.875	463
24	CMES2457X35	57	MXT35	3.5	0.875	463
24	CMES2457X40	57	MXT40	4.0	1.000	473
24	CMES2457X45	57	MXT45	4.5	1.000	503
24	CMES2457X50	57	MXT50	5.0	1.000	697
24	CMES2457X60	57	MXT60	6.0	1.125	681
24	CMES2463X30	63	MXT30	3.0	0.875	505
24	CMES2463X35	63	MXT35	3.5	0.875	505
24	CMES2463X40	63	MXT40	4.0	1.000	515
24	CMES2463X45	63	MXT45	4.5	1.000	545
24	CMES2463X50	63	MXT50	5.0	1.000	755
24	CMES2463X60	63	MXT60	6.0	1.125	739
30	CMES3020X35	20	MXT35	3.5	0.875	434
30	CMES3020X40	20	MXT40	4.0	1.000	436
30	CMES3020X45	20	MXT45	4.5	1.000	482
30	CMES3020X50	20	MXT50	5.0	1.000	540
30	CMES3020X60	20	MXT60	6.0	1.125	524
30	CMES3026X35	26	MXT35	3.5	0.875	495
30	CMES3026X40	26	MXT40	4.0	1.000	497
30	CMES3026X45	26	MXT45	4.5	1.000	543

Martin Elite Series Pulleys – No Lagging

Diameter A	Part Number	Face C	Bushing	Max Bore	Setback B*	Approx. Weight (lb)
30	CMES3026X50	26	MXT50	5.0	1.000	601
30	CMES3026X60	26	MXT60	6.0	1.125	585
30	CMES3032X35	32	MXT35	3.5	0.875	572
30	CMES3032X40	32	MXT40	4.0	1.000	574
30	CMES3032X45	32	MXT45	4.5	1.000	620
30	CMES3032X50	32	MXT50	5.0	1.000	678
30	CMES3032X60	32	MXT60	6.0	1.125	662
30	CMES3038X35	38	MXT35	3.5	0.875	632
30	CMES3038X40	38	MXT40	4.0	1.000	634
30	CMES3038X45	38	MXT45	4.5	1.000	680
30	CMES3038X50	38	MXT50	5.0	1.000	738
30	CMES3038X60	38	MXT60	6.0	1.125	722
30	CMES3044X35	44	MXT35	3.5	0.875	710
30	CMES3044X40	44	MXT40	4.0	1.000	712
30	CMES3044X45	44	MXT45	4.5	1.000	758
30	CMES3044X50	44	MXT50	5.0	1.000	816
30	CMES3044X60	44	MXT60	6.0	1.125	800
30	CMES3051X35	51	MXT35	3.5	0.875	780
30	CMES3051X40	51	MXT40	4.0	1.000	782
30	CMES3051X45	51	MXT45	4.5	1.000	828
30	CMES3051X50	51	MXT50	5.0	1.000	886
30	CMES3051X60	51	MXT60	6.0	1.125	870
30	CMES3057X35	57	MXT35	3.5	0.875	840
30	CMES3057X40	57	MXT40	4.0	1.000	842
30	CMES3057X45	57	MXT45	4.5	1.000	888
30	CMES3057X50	57	MXT50	5.0	1.000	946
30	CMES3057X60	57	MXT60	6.0	1.125	930
30	CMES3063X35	63	MXT35	3.5	0.875	917
30	CMES3063X40	63	MXT40	4.0	1.000	919
30	CMES3063X45	63	MXT45	4.5	1.000	965
30	CMES3063X50	63	MXT50	5.0	1.000	1023
30	CMES3063X60	63	MXT60	6.0	1.125	1007
36	CMES3620X35	20	MXT35	3.5	0.875	676
36	CMES3620X40	20	MXT40	4.0	1.000	676
36	CMES3620X45	20	MXT45	4.5	1.000	672
36	CMES3620X50	20	MXT50	5.0	1.000	744
36	CMES3620X60	20	MXT60	6.0	1.125	728
36	CMES3626X35	26	MXT35	3.5	0.875	749
36	CMES3626X40	26	MXT40	4.0	1.000	749
36	CMES3626X45	26	MXT45	4.5	1.000	745
36	CMES3626X50	26	MXT50	5.0	1.000	817
36	CMES3626X60	26	MXT60	6.0	1.125	801
36	CMES3632X35	32	MXT35	3.5	0.875	843
36	CMES3632X40	32	MXT40	4.0	1.000	843
36	CMES3632X45	32	MXT45	4.5	1.000	839
36	CMES3632X50	32	MXT50	5.0	1.000	911
36	CMES3632X60	32	MXT60	6.0	1.125	895
36	CMES3638X35	38	MXT35	3.5	0.875	916

* General position for Bushing face - for position per application consult *Martin*.

Martin Elite Series Drum Pulleys



Martin Elite Series Pulleys – No Lagging

Diameter A	Part Number	Face C	Bushing	Max Bore	Setback B*	Approx. Weight (lb)
36	CMES3638X40	38	MXT40	4.0	1.000	916
36	CMES3638X45	38	MXT45	4.5	1.000	912
36	CMES3638X50	38	MXT50	5.0	1.000	984
36	CMES3638X60	38	MXT60	6.0	1.125	968
36	CMES3644X35	44	MXT35	3.5	0.875	1010
36	CMES3644X40	44	MXT40	4.0	1.000	1010
36	CMES3644X45	44	MXT45	4.5	1.000	1006
36	CMES3644X50	44	MXT50	5.0	1.000	1078
36	CMES3644X60	44	MXT60	6.0	1.125	1062
36	CMES3651X35	51	MXT35	3.5	0.875	1095
36	CMES3651X40	51	MXT40	4.0	1.000	1095
36	CMES3651X45	51	MXT45	4.5	1.000	1091
36	CMES3651X50	51	MXT50	5.0	1.000	1163
36	CMES3651X60	51	MXT60	6.0	1.125	1147
36	CMES3657X35	57	MXT35	3.5	0.875	1167
36	CMES3657X40	57	MXT40	4.0	1.000	1167
36	CMES3657X45	57	MXT45	4.5	1.000	1163
36	CMES3657X50	57	MXT50	5.0	1.000	1235
36	CMES3657X60	57	MXT60	6.0	1.125	1219
36	CMES3663X35	63	MXT35	3.5	0.875	1262
36	CMES3663X40	63	MXT40	4.0	1.000	1262
36	CMES3663X45	63	MXT45	4.5	1.000	1258
36	CMES3663X50	63	MXT50	5.0	1.000	1330
36	CMES3663X60	63	MXT60	6.0	1.125	1314

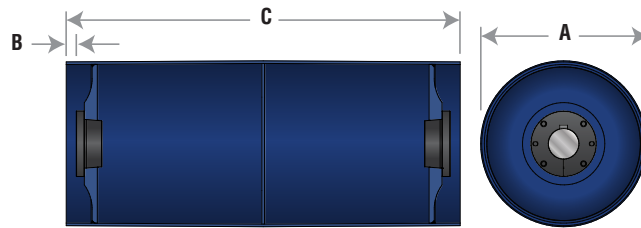


Custom Shafting Available!

* General position for Bushing face - for position per application consult *Martin*.



Martin Elite Series Drum Pulleys Plain Lagging



Martin Elite Series Pulleys – Plain Lagging

Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
14	CMES1420X25L2	20	MXT25	2.5	0.750	0.250	122
14	CMES1420X25L3	20	MXT25	2.5	0.750	0.375	128
14	CMES1420X25L4	20	MXT25	2.5	0.750	0.500	133
14	CMES1420X30L2	20	MXT30	3.0	0.875	0.250	120
14	CMES1420X30L3	20	MXT30	3.0	0.875	0.375	126
14	CMES1420X30L4	20	MXT30	3.0	0.875	0.500	131
14	CMES1420X35L2	20	MXT35	3.5	0.875	0.250	118
14	CMES1420X35L3	20	MXT35	3.5	0.875	0.375	124
14	CMES1420X35L4	20	MXT35	3.5	0.875	0.500	129
14	CMES1426X25L2	26	MXT25	2.5	0.750	0.250	144
14	CMES1426X25L3	26	MXT25	2.5	0.750	0.375	151
14	CMES1426X25L4	26	MXT25	2.5	0.750	0.500	158
14	CMES1426X30L2	26	MXT30	3.0	0.875	0.250	142
14	CMES1426X30L3	26	MXT30	3.0	0.875	0.375	149
14	CMES1426X30L4	26	MXT30	3.0	0.875	0.500	156
14	CMES1426X35L2	26	MXT35	3.5	0.875	0.250	140
14	CMES1426X35L3	26	MXT35	3.5	0.875	0.375	147
14	CMES1426X35L4	26	MXT35	3.5	0.875	0.500	154
14	CMES1432X25L2	32	MXT25	2.5	0.750	0.250	172
14	CMES1432X25L3	32	MXT25	2.5	0.750	0.375	180
14	CMES1432X25L4	32	MXT25	2.5	0.750	0.500	188
14	CMES1432X30L2	32	MXT30	3.0	0.875	0.250	170
14	CMES1432X30L3	32	MXT30	3.0	0.875	0.375	178
14	CMES1432X30L4	32	MXT30	3.0	0.875	0.500	186
14	CMES1432X35L2	32	MXT35	3.5	0.875	0.250	168
14	CMES1432X35L3	32	MXT35	3.5	0.875	0.375	176
14	CMES1432X35L4	32	MXT35	3.5	0.875	0.500	184
14	CMES1438X25L2	38	MXT25	2.5	0.750	0.250	193
14	CMES1438X25L3	38	MXT25	2.5	0.750	0.375	203
14	CMES1438X25L4	38	MXT25	2.5	0.750	0.500	213
14	CMES1438X30L2	38	MXT30	3.0	0.875	0.250	191
14	CMES1438X30L3	38	MXT30	3.0	0.875	0.375	201
14	CMES1438X30L4	38	MXT30	3.0	0.875	0.500	211
14	CMES1438X35L2	38	MXT35	3.5	0.875	0.250	189
14	CMES1438X35L3	38	MXT35	3.5	0.875	0.375	199
14	CMES1438X35L4	38	MXT35	3.5	0.875	0.500	209
14	CMES1444X25L2	44	MXT25	2.5	0.750	0.250	221
14	CMES1444X25L3	44	MXT25	2.5	0.750	0.375	232
14	CMES1444X25L4	44	MXT25	2.5	0.750	0.500	244
14	CMES1444X30L2	44	MXT30	3.0	0.875	0.250	219
14	CMES1444X30L3	44	MXT30	3.0	0.875	0.375	230
14	CMES1444X30L4	44	MXT30	3.0	0.875	0.500	242
14	CMES1444X35L2	44	MXT35	3.5	0.875	0.250	217
14	CMES1444X35L3	44	MXT35	3.5	0.875	0.375	228
14	CMES1444X35L4	44	MXT35	3.5	0.875	0.500	240
14	CMES1451X25L2	51	MXT25	2.5	0.750	0.250	246
14	CMES1451X25L3	51	MXT25	2.5	0.750	0.375	259
14	CMES1451X25L4	51	MXT25	2.5	0.750	0.500	273

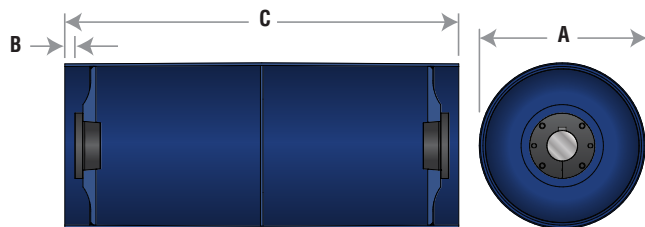
Martin Elite Series Pulleys – Plain Lagging

Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
14	CMES1451X30L2	51	MXT30	3.0	0.875	0.250	244
14	CMES1451X30L3	51	MXT30	3.0	0.875	0.375	257
14	CMES1451X30L4	51	MXT30	3.0	0.875	0.500	271
14	CMES1451X35L2	51	MXT35	3.5	0.875	0.250	242
14	CMES1451X35L3	51	MXT35	3.5	0.875	0.375	255
14	CMES1451X35L4	51	MXT35	3.5	0.875	0.500	269
14	CMES1457X25L2	57	MXT25	2.5	0.750	0.250	268
14	CMES1457X25L3	57	MXT25	2.5	0.750	0.375	283
14	CMES1457X25L4	57	MXT25	2.5	0.750	0.500	298
14	CMES1457X30L2	57	MXT30	3.0	0.875	0.250	266
14	CMES1457X30L3	57	MXT30	3.0	0.875	0.375	281
14	CMES1457X30L4	57	MXT30	3.0	0.875	0.500	296
14	CMES1457X35L2	57	MXT35	3.5	0.875	0.250	264
14	CMES1457X35L3	57	MXT35	3.5	0.875	0.375	279
14	CMES1457X35L4	57	MXT35	3.5	0.875	0.500	294
14	CMES1463X25L2	63	MXT25	2.5	0.750	0.250	296
14	CMES1463X25L3	63	MXT25	2.5	0.750	0.375	312
14	CMES1463X25L4	63	MXT25	2.5	0.750	0.500	328
14	CMES1463X30L2	63	MXT30	3.0	0.875	0.250	294
14	CMES1463X30L3	63	MXT30	3.0	0.875	0.375	310
14	CMES1463X30L4	63	MXT30	3.0	0.875	0.500	326
14	CMES1463X35L2	63	MXT35	3.5	0.875	0.250	292
14	CMES1463X35L3	63	MXT35	3.5	0.875	0.375	308
14	CMES1463X35L4	63	MXT35	3.5	0.875	0.500	324
16	CMES1620X25L2	20	MXT25	2.5	0.750	0.250	147
16	CMES1620X25L3	20	MXT25	2.5	0.750	0.375	153
16	CMES1620X25L4	20	MXT25	2.5	0.750	0.500	159
16	CMES1620X30L2	20	MXT30	3.0	0.875	0.250	145
16	CMES1620X30L3	20	MXT30	3.0	0.875	0.375	151
16	CMES1620X30L4	20	MXT30	3.0	0.875	0.500	157
16	CMES1620X35L2	20	MXT35	3.5	0.875	0.250	141
16	CMES1620X35L3	20	MXT35	3.5	0.875	0.375	147
16	CMES1620X35L4	20	MXT35	3.5	0.875	0.500	153
16	CMES1620X40L2	20	MXT40	4.0	1.000	0.250	161
16	CMES1620X40L3	20	MXT40	4.0	1.000	0.375	167
16	CMES1620X40L4	20	MXT40	4.0	1.000	0.500	173
16	CMES1626X25L2	26	MXT25	2.5	0.750	0.250	172
16	CMES1626X25L3	26	MXT25	2.5	0.750	0.375	179
16	CMES1626X25L4	26	MXT25	2.5	0.750	0.500	187
16	CMES1626X30L2	26	MXT30	3.0	0.875	0.250	170
16	CMES1626X30L3	26	MXT30	3.0	0.875	0.375	177
16	CMES1626X30L4	26	MXT30	3.0	0.875	0.500	185
16	CMES1626X35L2	26	MXT35	3.5	0.875	0.250	166
16	CMES1626X35L3	26	MXT35	3.5	0.875	0.375	173
16	CMES1626X35L4	26	MXT35	3.5	0.875	0.500	181
16	CMES1626X40L2	26	MXT40	4.0	1.000	0.250	186
16	CMES1626X40L3	26	MXT40	4.0	1.000	0.375	193
16	CMES1626X40L4	26	MXT40	4.0	1.000	0.500	201

* General position for Bushing face - for position per application consult *Martin*.

Martin Elite Series Drum Pulleys

Plain Lagging



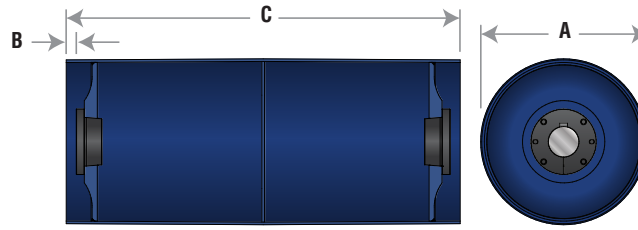
Martin Elite Series Pulleys – Plain Lagging

Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
16	CMES1632X25L2	32	MXT25	2.5	0.750	0.250	203
16	CMES1632X25L3	32	MXT25	2.5	0.750	0.375	213
16	CMES1632X25L4	32	MXT25	2.5	0.750	0.500	222
16	CMES1632X30L2	32	MXT30	3.0	0.875	0.250	201
16	CMES1632X30L3	32	MXT30	3.0	0.875	0.375	211
16	CMES1632X30L4	32	MXT30	3.0	0.875	0.500	220
16	CMES1632X35L2	32	MXT35	3.5	0.875	0.250	197
16	CMES1632X35L3	32	MXT35	3.5	0.875	0.375	207
16	CMES1632X35L4	32	MXT35	3.5	0.875	0.500	216
16	CMES1632X40L2	32	MXT40	4.0	1.000	0.250	217
16	CMES1632X40L3	32	MXT40	4.0	1.000	0.375	227
16	CMES1632X40L4	32	MXT40	4.0	1.000	0.500	236
16	CMES1638X25L2	38	MXT25	2.5	0.750	0.250	228
16	CMES1638X25L3	38	MXT25	2.5	0.750	0.375	239
16	CMES1638X25L4	38	MXT25	2.5	0.750	0.500	251
16	CMES1638X30L2	38	MXT30	3.0	0.875	0.250	226
16	CMES1638X30L3	38	MXT30	3.0	0.875	0.375	237
16	CMES1638X30L4	38	MXT30	3.0	0.875	0.500	249
16	CMES1638X35L2	38	MXT35	3.5	0.875	0.250	222
16	CMES1638X35L3	38	MXT35	3.5	0.875	0.375	233
16	CMES1638X35L4	38	MXT35	3.5	0.875	0.500	245
16	CMES1638X40L2	38	MXT40	4.0	1.000	0.250	242
16	CMES1638X40L3	38	MXT40	4.0	1.000	0.375	253
16	CMES1638X40L4	38	MXT40	4.0	1.000	0.500	265
16	CMES1644X25L2	44	MXT25	2.5	0.750	0.250	260
16	CMES1644X25L3	44	MXT25	2.5	0.750	0.375	273
16	CMES1644X25L4	44	MXT25	2.5	0.750	0.500	286
16	CMES1644X30L2	44	MXT30	3.0	0.875	0.250	258
16	CMES1644X30L3	44	MXT30	3.0	0.875	0.375	271
16	CMES1644X30L4	44	MXT30	3.0	0.875	0.500	284
16	CMES1644X35L2	44	MXT35	3.5	0.875	0.250	254
16	CMES1644X35L3	44	MXT35	3.5	0.875	0.375	267
16	CMES1644X35L4	44	MXT35	3.5	0.875	0.500	280
16	CMES1644X40L2	44	MXT40	4.0	1.000	0.250	274
16	CMES1644X40L3	44	MXT40	4.0	1.000	0.375	287
16	CMES1644X40L4	44	MXT40	4.0	1.000	0.500	300
16	CMES1651X25L2	51	MXT25	2.5	0.750	0.250	289
16	CMES1651X25L3	51	MXT25	2.5	0.750	0.375	304
16	CMES1651X25L4	51	MXT25	2.5	0.750	0.500	319
16	CMES1651X30L2	51	MXT30	3.0	0.875	0.250	287
16	CMES1651X30L3	51	MXT30	3.0	0.875	0.375	302
16	CMES1651X30L4	51	MXT30	3.0	0.875	0.500	317
16	CMES1651X35L2	51	MXT35	3.5	0.875	0.250	283
16	CMES1651X35L3	51	MXT35	3.5	0.875	0.375	298
16	CMES1651X35L4	51	MXT35	3.5	0.875	0.500	313
16	CMES1651X40L2	51	MXT40	4.0	1.000	0.250	303
16	CMES1651X40L3	51	MXT40	4.0	1.000	0.375	318
16	CMES1651X40L4	51	MXT40	4.0	1.000	0.500	333

Martin Elite Series Pulleys – Plain Lagging

Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
16	CMES1657X25L2	57	MXT25	2.5	0.750	0.250	314
16	CMES1657X25L3	57	MXT25	2.5	0.750	0.375	331
16	CMES1657X25L4	57	MXT25	2.5	0.750	0.500	348
16	CMES1657X30L2	57	MXT30	3.0	0.875	0.250	312
16	CMES1657X30L3	57	MXT30	3.0	0.875	0.375	329
16	CMES1657X30L4	57	MXT30	3.0	0.875	0.500	346
16	CMES1657X35L2	57	MXT35	3.5	0.875	0.250	308
16	CMES1657X35L3	57	MXT35	3.5	0.875	0.375	325
16	CMES1657X35L4	57	MXT35	3.5	0.875	0.500	342
16	CMES1657X40L2	57	MXT40	4.0	1.000	0.250	328
16	CMES1657X40L3	57	MXT40	4.0	1.000	0.375	345
16	CMES1657X40L4	57	MXT40	4.0	1.000	0.500	362
16	CMES1663X25L2	63	MXT25	2.5	0.750	0.250	346
16	CMES1663X25L3	63	MXT25	2.5	0.750	0.375	364
16	CMES1663X25L4	63	MXT25	2.5	0.750	0.500	383
16	CMES1663X30L2	63	MXT30	3.0	0.875	0.250	344
16	CMES1663X30L3	63	MXT30	3.0	0.875	0.375	362
16	CMES1663X30L4	63	MXT30	3.0	0.875	0.500	381
16	CMES1663X35L2	63	MXT35	3.5	0.875	0.250	340
16	CMES1663X35L3	63	MXT35	3.5	0.875	0.375	358
16	CMES1663X35L4	63	MXT35	3.5	0.875	0.500	377
16	CMES1663X40L2	63	MXT40	4.0	1.000	0.250	360
16	CMES1663X40L3	63	MXT40	4.0	1.000	0.375	378
16	CMES1663X40L4	63	MXT40	4.0	1.000	0.500	397
18	CMES1820X25L2	20	MXT25	2.5	0.750	0.250	169
18	CMES1820X25L3	20	MXT25	2.5	0.750	0.375	176
18	CMES1820X25L4	20	MXT25	2.5	0.750	0.500	182
18	CMES1820X30L2	20	MXT30	3.0	0.875	0.250	167
18	CMES1820X30L3	20	MXT30	3.0	0.875	0.375	174
18	CMES1820X30L4	20	MXT30	3.0	0.875	0.500	180
18	CMES1820X35L2	20	MXT35	3.5	0.875	0.250	167
18	CMES1820X35L3	20	MXT35	3.5	0.875	0.375	174
18	CMES1820X35L4	20	MXT35	3.5	0.875	0.500	180
18	CMES1820X40L2	20	MXT40	4.0	1.000	0.250	189
18	CMES1820X40L3	20	MXT40	4.0	1.000	0.375	196
18	CMES1820X40L4	20	MXT40	4.0	1.000	0.500	202
18	CMES1820X45L2	20	MXT45	4.5	1.000	0.250	197
18	CMES1820X45L3	20	MXT45	4.5	1.000	0.375	204
18	CMES1820X45L4	20	MXT45	4.5	1.000	0.500	210
18	CMES1826X25L2	26	MXT25	2.5	0.750	0.250	197
18	CMES1826X25L3	26	MXT25	2.5	0.750	0.375	206
18	CMES1826X25L4	26	MXT25	2.5	0.750	0.500	214
18	CMES1826X30L2	26	MXT30	3.0	0.875	0.250	195
18	CMES1826X30L3	26	MXT30	3.0	0.875	0.375	204
18	CMES1826X30L4	26	MXT30	3.0	0.875	0.500	212
18	CMES1826X35L2	26	MXT35	3.5	0.875	0.250	195
18	CMES1826X35L3	26	MXT35	3.5	0.875	0.375	204
18	CMES1826X35L4	26	MXT35	3.5	0.875	0.500	212

* General position for Bushing face - for position per application consult *Martin*.



Martin Elite Series Pulleys – Plain Lagging

Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
18	CMES1826X40L2	26	MXT40	4.0	1.000	0.250	217
18	CMES1826X40L3	26	MXT40	4.0	1.000	0.375	226
18	CMES1826X40L4	26	MXT40	4.0	1.000	0.500	234
18	CMES1826X45L2	26	MXT45	4.5	1.000	0.250	225
18	CMES1826X45L3	26	MXT45	4.5	1.000	0.375	234
18	CMES1826X45L4	26	MXT45	4.5	1.000	0.500	242
18	CMES1832X25L2	32	MXT25	2.5	0.750	0.250	232
18	CMES1832X25L3	32	MXT25	2.5	0.750	0.375	243
18	CMES1832X25L4	32	MXT25	2.5	0.750	0.500	253
18	CMES1832X30L2	32	MXT30	3.0	0.875	0.250	230
18	CMES1832X30L3	32	MXT30	3.0	0.875	0.375	241
18	CMES1832X30L4	32	MXT30	3.0	0.875	0.500	251
18	CMES1832X35L2	32	MXT35	3.5	0.875	0.250	230
18	CMES1832X35L3	32	MXT35	3.5	0.875	0.375	241
18	CMES1832X35L4	32	MXT35	3.5	0.875	0.500	251
18	CMES1832X40L2	32	MXT40	4.0	1.000	0.250	252
18	CMES1832X40L3	32	MXT40	4.0	1.000	0.375	263
18	CMES1832X40L4	32	MXT40	4.0	1.000	0.500	273
18	CMES1832X45L2	32	MXT45	4.5	1.000	0.250	260
18	CMES1832X45L3	32	MXT45	4.5	1.000	0.375	271
18	CMES1832X45L4	32	MXT45	4.5	1.000	0.500	281
18	CMES1838X25L2	38	MXT25	2.5	0.750	0.250	260
18	CMES1838X25L3	38	MXT25	2.5	0.750	0.375	273
18	CMES1838X25L4	38	MXT25	2.5	0.750	0.500	285
18	CMES1838X30L2	38	MXT30	3.0	0.875	0.250	258
18	CMES1838X30L3	38	MXT30	3.0	0.875	0.375	271
18	CMES1838X30L4	38	MXT30	3.0	0.875	0.500	283
18	CMES1838X35L2	38	MXT35	3.5	0.875	0.250	258
18	CMES1838X35L3	38	MXT35	3.5	0.875	0.375	271
18	CMES1838X35L4	38	MXT35	3.5	0.875	0.500	283
18	CMES1838X40L2	38	MXT40	4.0	1.000	0.250	280
18	CMES1838X40L3	38	MXT40	4.0	1.000	0.375	293
18	CMES1838X40L4	38	MXT40	4.0	1.000	0.500	305
18	CMES1838X45L2	38	MXT45	4.5	1.000	0.250	288
18	CMES1838X45L3	38	MXT45	4.5	1.000	0.375	301
18	CMES1838X45L4	38	MXT45	4.5	1.000	0.500	313
18	CMES1844X25L2	44	MXT25	2.5	0.750	0.250	295
18	CMES1844X25L3	44	MXT25	2.5	0.750	0.375	310
18	CMES1844X25L4	44	MXT25	2.5	0.750	0.500	324
18	CMES1844X30L2	44	MXT30	3.0	0.875	0.250	293
18	CMES1844X30L3	44	MXT30	3.0	0.875	0.375	308
18	CMES1844X30L4	44	MXT30	3.0	0.875	0.500	322
18	CMES1844X35L2	44	MXT35	3.5	0.875	0.250	293
18	CMES1844X35L3	44	MXT35	3.5	0.875	0.375	308
18	CMES1844X35L4	44	MXT35	3.5	0.875	0.500	322
18	CMES1844X40L2	44	MXT40	4.0	1.000	0.250	315
18	CMES1844X40L3	44	MXT40	4.0	1.000	0.375	330
18	CMES1844X40L4	44	MXT40	4.0	1.000	0.500	344

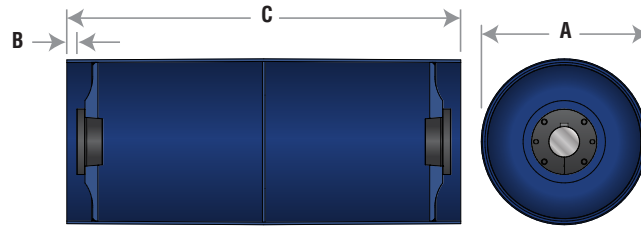
Martin Elite Series Pulleys – Plain Lagging

Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
18	CMES1844X45L2	44	MXT45	4.5	1.000	0.250	323
18	CMES1844X45L3	44	MXT45	4.5	1.000	0.375	338
18	CMES1844X45L4	44	MXT45	4.5	1.000	0.500	352
18	CMES1851X25L2	51	MXT25	2.5	0.750	0.250	328
18	CMES1851X25L3	51	MXT25	2.5	0.750	0.375	344
18	CMES1851X25L4	51	MXT25	2.5	0.750	0.500	362
18	CMES1851X30L2	51	MXT30	3.0	0.875	0.250	326
18	CMES1851X30L3	51	MXT30	3.0	0.875	0.375	342
18	CMES1851X30L4	51	MXT30	3.0	0.875	0.500	360
18	CMES1851X35L2	51	MXT35	3.5	0.875	0.250	326
18	CMES1851X35L3	51	MXT35	3.5	0.875	0.375	342
18	CMES1851X35L4	51	MXT35	3.5	0.875	0.500	360
18	CMES1851X40L2	51	MXT40	4.0	1.000	0.250	348
18	CMES1851X40L3	51	MXT40	4.0	1.000	0.375	364
18	CMES1851X40L4	51	MXT40	4.0	1.000	0.500	382
18	CMES1851X45L2	51	MXT45	4.5	1.000	0.250	356
18	CMES1851X45L3	51	MXT45	4.5	1.000	0.375	372
18	CMES1851X45L4	51	MXT45	4.5	1.000	0.500	390
18	CMES1857X25L2	57	MXT25	2.5	0.750	0.250	356
18	CMES1857X25L3	57	MXT25	2.5	0.750	0.375	374
18	CMES1857X25L4	57	MXT25	2.5	0.750	0.500	393
18	CMES1857X30L2	57	MXT30	3.0	0.875	0.250	354
18	CMES1857X30L3	57	MXT30	3.0	0.875	0.375	372
18	CMES1857X30L4	57	MXT30	3.0	0.875	0.500	391
18	CMES1857X35L2	57	MXT35	3.5	0.875	0.250	354
18	CMES1857X35L3	57	MXT35	3.5	0.875	0.375	372
18	CMES1857X35L4	57	MXT35	3.5	0.875	0.500	391
18	CMES1857X40L2	57	MXT40	4.0	1.000	0.250	376
18	CMES1857X40L3	57	MXT40	4.0	1.000	0.375	394
18	CMES1857X40L4	57	MXT40	4.0	1.000	0.500	413
18	CMES1857X45L2	57	MXT45	4.5	1.000	0.250	384
18	CMES1857X45L3	57	MXT45	4.5	1.000	0.375	402
18	CMES1857X45L4	57	MXT45	4.5	1.000	0.500	421
18	CMES1863X25L2	63	MXT25	2.5	0.750	0.250	391
18	CMES1863X25L3	63	MXT25	2.5	0.750	0.375	411
18	CMES1863X25L4	63	MXT25	2.5	0.750	0.500	432
18	CMES1863X30L2	63	MXT30	3.0	0.875	0.250	389
18	CMES1863X30L3	63	MXT30	3.0	0.875	0.375	409
18	CMES1863X30L4	63	MXT30	3.0	0.875	0.500	430
18	CMES1863X35L2	63	MXT35	3.5	0.875	0.250	389
18	CMES1863X35L3	63	MXT35	3.5	0.875	0.375	409
18	CMES1863X35L4	63	MXT35	3.5	0.875	0.500	430
18	CMES1863X40L2	63	MXT40	4.0	1.000	0.250	411
18	CMES1863X40L3	63	MXT40	4.0	1.000	0.375	431
18	CMES1863X40L4	63	MXT40	4.0	1.000	0.500	452
18	CMES1863X45L2	63	MXT45	4.5	1.000	0.250	419
18	CMES1863X45L3	63	MXT45	4.5	1.000	0.375	439
18	CMES1863X45L4	63	MXT45	4.5	1.000	0.500	460

* General position for Bushing face - for position per application consult *Martin*.

Martin Elite Series Drum Pulleys

Plain Lagging



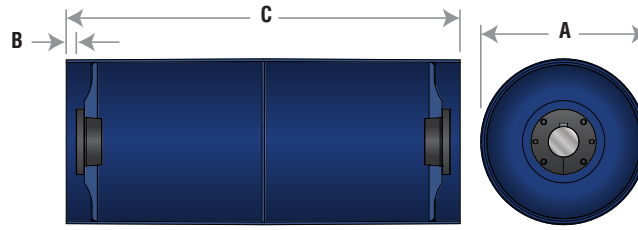
Martin Elite Series Pulleys – Plain Lagging

Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
20	CMES2020X25L2	20	MXT25	2.5	0.750	0.250	197
20	CMES2020X25L3	20	MXT25	2.5	0.750	0.375	205
20	CMES2020X25L4	20	MXT25	2.5	0.750	0.500	212
20	CMES2020X30L2	20	MXT30	3.0	0.875	0.250	195
20	CMES2020X30L3	20	MXT30	3.0	0.875	0.375	203
20	CMES2020X30L4	20	MXT30	3.0	0.875	0.500	210
20	CMES2020X35L2	20	MXT35	3.5	0.875	0.250	187
20	CMES2020X35L3	20	MXT35	3.5	0.875	0.375	195
20	CMES2020X35L4	20	MXT35	3.5	0.875	0.500	202
20	CMES2020X40L2	20	MXT40	4.0	1.000	0.250	209
20	CMES2020X40L3	20	MXT40	4.0	1.000	0.375	217
20	CMES2020X40L4	20	MXT40	4.0	1.000	0.500	224
20	CMES2020X45L2	20	MXT45	4.5	1.000	0.250	227
20	CMES2020X45L3	20	MXT45	4.5	1.000	0.375	235
20	CMES2020X45L4	20	MXT45	4.5	1.000	0.500	242
20	CMES2020X50L2	20	MXT50	5.0	1.000	0.250	310
20	CMES2020X50L3	20	MXT50	5.0	1.000	0.375	317
20	CMES2020X50L4	20	MXT50	5.0	1.000	0.500	325
20	CMES2026X25L2	26	MXT25	2.5	0.750	0.250	228
20	CMES2026X25L3	26	MXT25	2.5	0.750	0.375	238
20	CMES2026X25L4	26	MXT25	2.5	0.750	0.500	247
20	CMES2026X30L2	26	MXT30	3.0	0.875	0.250	226
20	CMES2026X30L3	26	MXT30	3.0	0.875	0.375	236
20	CMES2026X30L4	26	MXT30	3.0	0.875	0.500	245
20	CMES2026X35L2	26	MXT35	3.5	0.875	0.250	218
20	CMES2026X35L3	26	MXT35	3.5	0.875	0.375	228
20	CMES2026X35L4	26	MXT35	3.5	0.875	0.500	237
20	CMES2026X40L2	26	MXT40	4.0	1.000	0.250	240
20	CMES2026X40L3	26	MXT40	4.0	1.000	0.375	250
20	CMES2026X40L4	26	MXT40	4.0	1.000	0.500	259
20	CMES2026X45L2	26	MXT45	4.5	1.000	0.250	258
20	CMES2026X45L3	26	MXT45	4.5	1.000	0.375	268
20	CMES2026X45L4	26	MXT45	4.5	1.000	0.500	277
20	CMES2026X50L2	26	MXT50	5.0	1.000	0.250	354
20	CMES2026X50L3	26	MXT50	5.0	1.000	0.375	364
20	CMES2026X50L4	26	MXT50	5.0	1.000	0.500	373
20	CMES2032X25L2	32	MXT25	2.5	0.750	0.250	268
20	CMES2032X25L3	32	MXT25	2.5	0.750	0.375	279
20	CMES2032X25L4	32	MXT25	2.5	0.750	0.500	291
20	CMES2032X30L2	32	MXT30	3.0	0.875	0.250	266
20	CMES2032X30L3	32	MXT30	3.0	0.875	0.375	277
20	CMES2032X30L4	32	MXT30	3.0	0.875	0.500	289
20	CMES2032X35L2	32	MXT35	3.5	0.875	0.250	258
20	CMES2032X35L3	32	MXT35	3.5	0.875	0.375	269
20	CMES2032X35L4	32	MXT35	3.5	0.875	0.500	281
20	CMES2032X40L2	32	MXT40	4.0	1.000	0.250	280
20	CMES2032X40L3	32	MXT40	4.0	1.000	0.375	291
20	CMES2032X40L4	32	MXT40	4.0	1.000	0.500	303

Martin Elite Series Pulleys – Plain Lagging

Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
20	CMES2032X45L2	32	MXT45	4.5	1.000	0.250	298
20	CMES2032X45L3	32	MXT45	4.5	1.000	0.375	309
20	CMES2032X45L4	32	MXT45	4.5	1.000	0.500	321
20	CMES2032X50L2	32	MXT50	5.0	1.000	0.250	407
20	CMES2032X50L3	32	MXT50	5.0	1.000	0.375	418
20	CMES2032X50L4	32	MXT50	5.0	1.000	0.500	430
20	CMES2038X25L2	38	MXT25	2.5	0.750	0.250	299
20	CMES2038X25L3	38	MXT25	2.5	0.750	0.375	312
20	CMES2038X25L4	38	MXT25	2.5	0.750	0.500	326
20	CMES2038X30L2	38	MXT30	3.0	0.875	0.250	297
20	CMES2038X30L3	38	MXT30	3.0	0.875	0.375	310
20	CMES2038X30L4	38	MXT30	3.0	0.875	0.500	324
20	CMES2038X35L2	38	MXT35	3.5	0.875	0.250	289
20	CMES2038X35L3	38	MXT35	3.5	0.875	0.375	302
20	CMES2038X35L4	38	MXT35	3.5	0.875	0.500	316
20	CMES2038X40L2	38	MXT40	4.0	1.000	0.250	311
20	CMES2038X40L3	38	MXT40	4.0	1.000	0.375	324
20	CMES2038X40L4	38	MXT40	4.0	1.000	0.500	338
20	CMES2038X45L2	38	MXT45	4.5	1.000	0.250	329
20	CMES2038X45L3	38	MXT45	4.5	1.000	0.375	342
20	CMES2038X45L4	38	MXT45	4.5	1.000	0.500	356
20	CMES2038X50L2	38	MXT50	5.0	1.000	0.250	451
20	CMES2038X50L3	38	MXT50	5.0	1.000	0.375	465
20	CMES2038X50L4	38	MXT50	5.0	1.000	0.500	479
20	CMES2044X25L2	44	MXT25	2.5	0.750	0.250	338
20	CMES2044X25L3	44	MXT25	2.5	0.750	0.375	354
20	CMES2044X25L4	44	MXT25	2.5	0.750	0.500	370
20	CMES2044X30L2	44	MXT30	3.0	0.875	0.250	336
20	CMES2044X30L3	44	MXT30	3.0	0.875	0.375	352
20	CMES2044X30L4	44	MXT30	3.0	0.875	0.500	368
20	CMES2044X35L2	44	MXT35	3.5	0.875	0.250	328
20	CMES2044X35L3	44	MXT35	3.5	0.875	0.375	344
20	CMES2044X35L4	44	MXT35	3.5	0.875	0.500	360
20	CMES2044X40L2	44	MXT40	4.0	1.000	0.250	350
20	CMES2044X40L3	44	MXT40	4.0	1.000	0.375	366
20	CMES2044X40L4	44	MXT40	4.0	1.000	0.500	382
20	CMES2044X45L2	44	MXT45	4.5	1.000	0.250	368
20	CMES2044X45L3	44	MXT45	4.5	1.000	0.375	384
20	CMES2044X45L4	44	MXT45	4.5	1.000	0.500	400
20	CMES2044X50L2	44	MXT50	5.0	1.000	0.250	504
20	CMES2044X50L3	44	MXT50	5.0	1.000	0.375	520
20	CMES2044X50L4	44	MXT50	5.0	1.000	0.500	536
20	CMES2051X25L2	51	MXT25	2.5	0.750	0.250	374
20	CMES2051X25L3	51	MXT25	2.5	0.750	0.375	392
20	CMES2051X25L4	51	MXT25	2.5	0.750	0.500	411
20	CMES2051X30L2	51	MXT30	3.0	0.875	0.250	372
20	CMES2051X30L3	51	MXT30	3.0	0.875	0.375	390
20	CMES2051X30L4	51	MXT30	3.0	0.875	0.500	409

* General position for Bushing face - for position per application consult *Martin*.



Martin Elite Series Pulleys – Plain Lagging

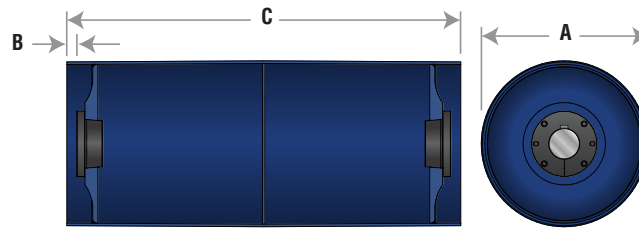
Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
20	CMES2051X35L2	51	MXT35	3.5	0.875	0.250	364
20	CMES2051X35L3	51	MXT35	3.5	0.875	0.375	382
20	CMES2051X35L4	51	MXT35	3.5	0.875	0.500	401
20	CMES2051X40L2	51	MXT40	4.0	1.000	0.250	386
20	CMES2051X40L3	51	MXT40	4.0	1.000	0.375	404
20	CMES2051X40L4	51	MXT40	4.0	1.000	0.500	423
20	CMES2051X45L2	51	MXT45	4.5	1.000	0.250	404
20	CMES2051X45L3	51	MXT45	4.5	1.000	0.375	422
20	CMES2051X45L4	51	MXT45	4.5	1.000	0.500	441
20	CMES2051X50L2	51	MXT50	5.0	1.000	0.250	555
20	CMES2051X50L3	51	MXT50	5.0	1.000	0.375	574
20	CMES2051X50L4	51	MXT50	5.0	1.000	0.500	593
20	CMES2057X25L2	57	MXT25	2.5	0.750	0.250	405
20	CMES2057X25L3	57	MXT25	2.5	0.750	0.375	426
20	CMES2057X25L4	57	MXT25	2.5	0.750	0.500	447
20	CMES2057X30L2	57	MXT30	3.0	0.875	0.250	403
20	CMES2057X30L3	57	MXT30	3.0	0.875	0.375	424
20	CMES2057X30L4	57	MXT30	3.0	0.875	0.500	445
20	CMES2057X35L2	57	MXT35	3.5	0.875	0.250	395
20	CMES2057X35L3	57	MXT35	3.5	0.875	0.375	416
20	CMES2057X35L4	57	MXT35	3.5	0.875	0.500	437
20	CMES2057X40L2	57	MXT40	4.0	1.000	0.250	417
20	CMES2057X40L3	57	MXT40	4.0	1.000	0.375	438
20	CMES2057X40L4	57	MXT40	4.0	1.000	0.500	459
20	CMES2057X45L2	57	MXT45	4.5	1.000	0.250	435
20	CMES2057X45L3	57	MXT45	4.5	1.000	0.375	456
20	CMES2057X45L4	57	MXT45	4.5	1.000	0.500	477
20	CMES2057X50L2	57	MXT50	5.0	1.000	0.250	600
20	CMES2057X50L3	57	MXT50	5.0	1.000	0.375	621
20	CMES2057X50L4	57	MXT50	5.0	1.000	0.500	642
20	CMES2063X25L2	63	MXT25	2.5	0.750	0.250	444
20	CMES2063X25L3	63	MXT25	2.5	0.750	0.375	467
20	CMES2063X25L4	63	MXT25	2.5	0.750	0.500	490
20	CMES2063X30L2	63	MXT30	3.0	0.875	0.250	442
20	CMES2063X30L3	63	MXT30	3.0	0.875	0.375	465
20	CMES2063X30L4	63	MXT30	3.0	0.875	0.500	488
20	CMES2063X35L2	63	MXT35	3.5	0.875	0.250	434
20	CMES2063X35L3	63	MXT35	3.5	0.875	0.375	457
20	CMES2063X35L4	63	MXT35	3.5	0.875	0.500	480
20	CMES2063X40L2	63	MXT40	4.0	1.000	0.250	456
20	CMES2063X40L3	63	MXT40	4.0	1.000	0.375	479
20	CMES2063X40L4	63	MXT40	4.0	1.000	0.500	502
20	CMES2063X45L2	63	MXT45	4.5	1.000	0.250	474
20	CMES2063X45L3	63	MXT45	4.5	1.000	0.375	497
20	CMES2063X45L4	63	MXT45	4.5	1.000	0.500	520
20	CMES2063X50L2	63	MXT50	5.0	1.000	0.250	652
20	CMES2063X50L3	63	MXT50	5.0	1.000	0.375	675
20	CMES2063X50L4	63	MXT50	5.0	1.000	0.500	698

Martin Elite Series Pulleys – Plain Lagging

Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
24	CMES2420X30L2	20	MXT30	3.0	0.875	0.250	262
24	CMES2420X30L3	20	MXT30	3.0	0.875	0.375	271
24	CMES2420X30L4	20	MXT30	3.0	0.875	0.500	280
24	CMES2420X35L2	20	MXT35	3.5	0.875	0.250	262
24	CMES2420X35L3	20	MXT35	3.5	0.875	0.375	271
24	CMES2420X35L4	20	MXT35	3.5	0.875	0.500	280
24	CMES2420X40L2	20	MXT40	4.0	1.000	0.250	272
24	CMES2420X40L3	20	MXT40	4.0	1.000	0.375	281
24	CMES2420X40L4	20	MXT40	4.0	1.000	0.500	290
24	CMES2420X45L2	20	MXT45	4.5	1.000	0.250	302
24	CMES2420X45L3	20	MXT45	4.5	1.000	0.375	311
24	CMES2420X45L4	20	MXT45	4.5	1.000	0.500	320
24	CMES2420X50L2	20	MXT50	5.0	1.000	0.250	397
24	CMES2420X50L3	20	MXT50	5.0	1.000	0.375	406
24	CMES2420X50L4	20	MXT50	5.0	1.000	0.500	415
24	CMES2420X60L2	20	MXT60	6.0	1.125	0.250	381
24	CMES2420X60L3	20	MXT60	6.0	1.125	0.375	390
24	CMES2420X60L4	20	MXT60	6.0	1.125	0.500	399
24	CMES2426X30L2	26	MXT30	3.0	0.875	0.250	299
24	CMES2426X30L3	26	MXT30	3.0	0.875	0.375	311
24	CMES2426X30L4	26	MXT30	3.0	0.875	0.500	322
24	CMES2426X35L2	26	MXT35	3.5	0.875	0.250	299
24	CMES2426X35L3	26	MXT35	3.5	0.875	0.375	311
24	CMES2426X35L4	26	MXT35	3.5	0.875	0.500	322
24	CMES2426X40L2	26	MXT40	4.0	1.000	0.250	309
24	CMES2426X40L3	26	MXT40	4.0	1.000	0.375	321
24	CMES2426X40L4	26	MXT40	4.0	1.000	0.500	332
24	CMES2426X45L2	26	MXT45	4.5	1.000	0.250	339
24	CMES2426X45L3	26	MXT45	4.5	1.000	0.375	351
24	CMES2426X45L4	26	MXT45	4.5	1.000	0.500	362
24	CMES2426X50L2	26	MXT50	5.0	1.000	0.250	451
24	CMES2426X50L3	26	MXT50	5.0	1.000	0.375	462
24	CMES2426X50L4	26	MXT50	5.0	1.000	0.500	473
24	CMES2426X60L2	26	MXT60	6.0	1.125	0.250	435
24	CMES2426X60L3	26	MXT60	6.0	1.125	0.375	446
24	CMES2426X60L4	26	MXT60	6.0	1.125	0.500	457
24	CMES2432X30L2	32	MXT30	3.0	0.875	0.250	346
24	CMES2432X30L3	32	MXT30	3.0	0.875	0.375	360
24	CMES2432X30L4	32	MXT30	3.0	0.875	0.500	374
24	CMES2432X35L2	32	MXT35	3.5	0.875	0.250	346
24	CMES2432X35L3	32	MXT35	3.5	0.875	0.375	360
24	CMES2432X35L4	32	MXT35	3.5	0.875	0.500	374
24	CMES2432X40L2	32	MXT40	4.0	1.000	0.250	356
24	CMES2432X40L3	32	MXT40	4.0	1.000	0.375	370
24	CMES2432X40L4	32	MXT40	4.0	1.000	0.500	384
24	CMES2432X45L2	32	MXT45	4.5	1.000	0.250	386
24	CMES2432X45L3	32	MXT45	4.5	1.000	0.375	400
24	CMES2432X45L4	32	MXT45	4.5	1.000	0.500	414

* General position for Bushing face - for position per application consult *Martin*.

Martin Elite Series Drum Pulleys Plain Lagging



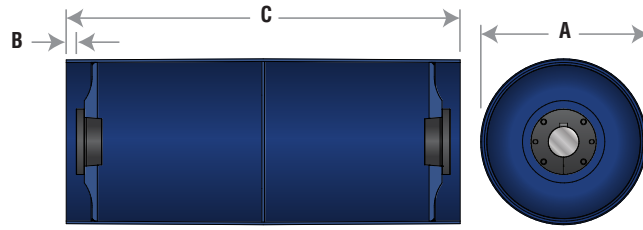
Martin Elite Series Pulleys – Plain Lagging

Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
24	CMES2432X50L2	32	MXT50	5.0	1.000	0.250	514
24	CMES2432X50L3	32	MXT50	5.0	1.000	0.375	528
24	CMES2432X50L4	32	MXT50	5.0	1.000	0.500	542
24	CMES2432X60L2	32	MXT60	6.0	1.125	0.250	498
24	CMES2432X60L3	32	MXT60	6.0	1.125	0.375	512
24	CMES2432X60L4	32	MXT60	6.0	1.125	0.500	526
24	CMES2438X30L2	38	MXT30	3.0	0.875	0.250	384
24	CMES2438X30L3	38	MXT30	3.0	0.875	0.375	400
24	CMES2438X30L4	38	MXT30	3.0	0.875	0.500	417
24	CMES2438X35L2	38	MXT35	3.5	0.875	0.250	384
24	CMES2438X35L3	38	MXT35	3.5	0.875	0.375	400
24	CMES2438X35L4	38	MXT35	3.5	0.875	0.500	417
24	CMES2438X40L2	38	MXT40	4.0	1.000	0.250	394
24	CMES2438X40L3	38	MXT40	4.0	1.000	0.375	410
24	CMES2438X40L4	38	MXT40	4.0	1.000	0.500	427
24	CMES2438X45L2	38	MXT45	4.5	1.000	0.250	424
24	CMES2438X45L3	38	MXT45	4.5	1.000	0.375	440
24	CMES2438X45L4	38	MXT45	4.5	1.000	0.500	457
24	CMES2438X50L2	38	MXT50	5.0	1.000	0.250	567
24	CMES2438X50L3	38	MXT50	5.0	1.000	0.375	584
24	CMES2438X50L4	38	MXT50	5.0	1.000	0.500	600
24	CMES2438X60L2	38	MXT60	6.0	1.125	0.250	551
24	CMES2438X60L3	38	MXT60	6.0	1.125	0.375	568
24	CMES2438X60L4	38	MXT60	6.0	1.125	0.500	584
24	CMES2444X30L2	44	MXT30	3.0	0.875	0.250	431
24	CMES2444X30L3	44	MXT30	3.0	0.875	0.375	450
24	CMES2444X30L4	44	MXT30	3.0	0.875	0.500	469
24	CMES2444X35L2	44	MXT35	3.5	0.875	0.250	431
24	CMES2444X35L3	44	MXT35	3.5	0.875	0.375	450
24	CMES2444X35L4	44	MXT35	3.5	0.875	0.500	469
24	CMES2444X40L2	44	MXT40	4.0	1.000	0.250	441
24	CMES2444X40L3	44	MXT40	4.0	1.000	0.375	460
24	CMES2444X40L4	44	MXT40	4.0	1.000	0.500	479
24	CMES2444X45L2	44	MXT45	4.5	1.000	0.250	471
24	CMES2444X45L3	44	MXT45	4.5	1.000	0.375	490
24	CMES2444X45L4	44	MXT45	4.5	1.000	0.500	509
24	CMES2444X50L2	44	MXT50	5.0	1.000	0.250	630
24	CMES2444X50L3	44	MXT50	5.0	1.000	0.375	649
24	CMES2444X50L4	44	MXT50	5.0	1.000	0.500	669
24	CMES2444X60L2	44	MXT60	6.0	1.125	0.250	614
24	CMES2444X60L3	44	MXT60	6.0	1.125	0.375	633
24	CMES2444X60L4	44	MXT60	6.0	1.125	0.500	653
24	CMES2451X30L2	51	MXT30	3.0	0.875	0.250	474
24	CMES2451X30L3	51	MXT30	3.0	0.875	0.375	496
24	CMES2451X30L4	51	MXT30	3.0	0.875	0.500	519
24	CMES2451X35L2	51	MXT35	3.5	0.875	0.250	474
24	CMES2451X35L3	51	MXT35	3.5	0.875	0.375	496
24	CMES2451X35L4	51	MXT35	3.5	0.875	0.500	519

Martin Elite Series Pulleys – Plain Lagging

Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
24	CMES2451X40L2	51	MXT40	4.0	1.000	0.250	484
24	CMES2451X40L3	51	MXT40	4.0	1.000	0.375	506
24	CMES2451X40L4	51	MXT40	4.0	1.000	0.500	529
24	CMES2451X45L2	51	MXT45	4.5	1.000	0.250	514
24	CMES2451X45L3	51	MXT45	4.5	1.000	0.375	536
24	CMES2451X45L4	51	MXT45	4.5	1.000	0.500	559
24	CMES2451X50L2	51	MXT50	5.0	1.000	0.250	692
24	CMES2451X50L3	51	MXT50	5.0	1.000	0.375	715
24	CMES2451X50L4	51	MXT50	5.0	1.000	0.500	737
24	CMES2451X60L2	51	MXT60	6.0	1.125	0.250	676
24	CMES2451X60L3	51	MXT60	6.0	1.125	0.375	699
24	CMES2451X60L4	51	MXT60	6.0	1.125	0.500	721
24	CMES2457X30L2	57	MXT30	3.0	0.875	0.250	511
24	CMES2457X30L3	57	MXT30	3.0	0.875	0.375	536
24	CMES2457X30L4	57	MXT30	3.0	0.875	0.500	561
24	CMES2457X35L2	57	MXT35	3.5	0.875	0.250	511
24	CMES2457X35L3	57	MXT35	3.5	0.875	0.375	536
24	CMES2457X35L4	57	MXT35	3.5	0.875	0.500	561
24	CMES2457X40L2	57	MXT40	4.0	1.000	0.250	521
24	CMES2457X40L3	57	MXT40	4.0	1.000	0.375	546
24	CMES2457X40L4	57	MXT40	4.0	1.000	0.500	571
24	CMES2457X45L2	57	MXT45	4.5	1.000	0.250	551
24	CMES2457X45L3	57	MXT45	4.5	1.000	0.375	576
24	CMES2457X45L4	57	MXT45	4.5	1.000	0.500	601
24	CMES2457X50L2	57	MXT50	5.0	1.000	0.250	746
24	CMES2457X50L3	57	MXT50	5.0	1.000	0.375	770
24	CMES2457X50L4	57	MXT50	5.0	1.000	0.500	796
24	CMES2457X60L2	57	MXT60	6.0	1.125	0.250	730
24	CMES2457X60L3	57	MXT60	6.0	1.125	0.375	754
24	CMES2457X60L4	57	MXT60	6.0	1.125	0.500	780
24	CMES2463X30L2	63	MXT30	3.0	0.875	0.250	559
24	CMES2463X30L3	63	MXT30	3.0	0.875	0.375	586
24	CMES2463X30L4	63	MXT30	3.0	0.875	0.500	614
24	CMES2463X35L2	63	MXT35	3.5	0.875	0.250	559
24	CMES2463X35L3	63	MXT35	3.5	0.875	0.375	586
24	CMES2463X35L4	63	MXT35	3.5	0.875	0.500	614
24	CMES2463X40L2	63	MXT40	4.0	1.000	0.250	569
24	CMES2463X40L3	63	MXT40	4.0	1.000	0.375	596
24	CMES2463X40L4	63	MXT40	4.0	1.000	0.500	624
24	CMES2463X45L2	63	MXT45	4.5	1.000	0.250	599
24	CMES2463X45L3	63	MXT45	4.5	1.000	0.375	626
24	CMES2463X45L4	63	MXT45	4.5	1.000	0.500	654
24	CMES2463X50L2	63	MXT50	5.0	1.000	0.250	809
24	CMES2463X50L3	63	MXT50	5.0	1.000	0.375	836
24	CMES2463X50L4	63	MXT50	5.0	1.000	0.500	864
24	CMES2463X60L2	63	MXT60	6.0	1.125	0.250	793
24	CMES2463X60L3	63	MXT60	6.0	1.125	0.375	820
24	CMES2463X60L4	63	MXT60	6.0	1.125	0.500	848

* General position for Bushing face - for position per application consult *Martin*.



Martin Elite Series Pulleys – Plain Lagging

Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
30	CMES3020X35L2	20	MXT35	3.5	0.875	0.250	456
30	CMES3020X35L3	20	MXT35	3.5	0.875	0.375	467
30	CMES3020X35L4	20	MXT35	3.5	0.875	0.500	478
30	CMES3020X40L2	20	MXT40	4.0	1.000	0.250	458
30	CMES3020X40L3	20	MXT40	4.0	1.000	0.375	469
30	CMES3020X40L4	20	MXT40	4.0	1.000	0.500	480
30	CMES3020X45L2	20	MXT45	4.5	1.000	0.250	504
30	CMES3020X45L3	20	MXT45	4.5	1.000	0.375	515
30	CMES3020X45L4	20	MXT45	4.5	1.000	0.500	526
30	CMES3020X50L2	20	MXT50	5.0	1.000	0.250	562
30	CMES3020X50L3	20	MXT50	5.0	1.000	0.375	573
30	CMES3020X50L4	20	MXT50	5.0	1.000	0.500	584
30	CMES3020X60L2	20	MXT60	6.0	1.125	0.250	546
30	CMES3020X60L3	20	MXT60	6.0	1.125	0.375	557
30	CMES3020X60L4	20	MXT60	6.0	1.125	0.500	568
30	CMES3026X35L2	26	MXT35	3.5	0.875	0.250	522
30	CMES3026X35L3	26	MXT35	3.5	0.875	0.375	536
30	CMES3026X35L4	26	MXT35	3.5	0.875	0.500	551
30	CMES3026X40L2	26	MXT40	4.0	1.000	0.250	524
30	CMES3026X40L3	26	MXT40	4.0	1.000	0.375	538
30	CMES3026X40L4	26	MXT40	4.0	1.000	0.500	553
30	CMES3026X45L2	26	MXT45	4.5	1.000	0.250	570
30	CMES3026X45L3	26	MXT45	4.5	1.000	0.375	584
30	CMES3026X45L4	26	MXT45	4.5	1.000	0.500	599
30	CMES3026X50L2	26	MXT50	5.0	1.000	0.250	628
30	CMES3026X50L3	26	MXT50	5.0	1.000	0.375	642
30	CMES3026X50L4	26	MXT50	5.0	1.000	0.500	657
30	CMES3026X60L2	26	MXT60	6.0	1.125	0.250	612
30	CMES3026X60L3	26	MXT60	6.0	1.125	0.375	626
30	CMES3026X60L4	26	MXT60	6.0	1.125	0.500	641
30	CMES3032X35L2	32	MXT35	3.5	0.875	0.250	606
30	CMES3032X35L3	32	MXT35	3.5	0.875	0.375	624
30	CMES3032X35L4	32	MXT35	3.5	0.875	0.500	641
30	CMES3032X40L2	32	MXT40	4.0	1.000	0.250	608
30	CMES3032X40L3	32	MXT40	4.0	1.000	0.375	626
30	CMES3032X40L4	32	MXT40	4.0	1.000	0.500	643
30	CMES3032X45L2	32	MXT45	4.5	1.000	0.250	654
30	CMES3032X45L3	32	MXT45	4.5	1.000	0.375	672
30	CMES3032X45L4	32	MXT45	4.5	1.000	0.500	689
30	CMES3032X50L2	32	MXT50	5.0	1.000	0.250	712
30	CMES3032X50L3	32	MXT50	5.0	1.000	0.375	730
30	CMES3032X50L4	32	MXT50	5.0	1.000	0.500	747
30	CMES3032X60L2	32	MXT60	6.0	1.125	0.250	696
30	CMES3032X60L3	32	MXT60	6.0	1.125	0.375	714
30	CMES3032X60L4	32	MXT60	6.0	1.125	0.500	731
30	CMES3038X35L2	38	MXT35	3.5	0.875	0.250	673
30	CMES3038X35L3	38	MXT35	3.5	0.875	0.375	693
30	CMES3038X35L4	38	MXT35	3.5	0.875	0.500	714

Martin Elite Series Pulleys – Plain Lagging

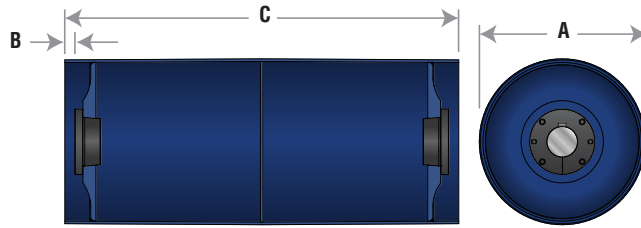
Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
30	CMES3038X40L2	38	MXT40	4.0	1.000	0.250	675
30	CMES3038X40L3	38	MXT40	4.0	1.000	0.375	695
30	CMES3038X40L4	38	MXT40	4.0	1.000	0.500	716
30	CMES3038X45L2	38	MXT45	4.5	1.000	0.250	721
30	CMES3038X45L3	38	MXT45	4.5	1.000	0.375	741
30	CMES3038X45L4	38	MXT45	4.5	1.000	0.500	762
30	CMES3038X50L2	38	MXT50	5.0	1.000	0.250	779
30	CMES3038X50L3	38	MXT50	5.0	1.000	0.375	799
30	CMES3038X50L4	38	MXT50	5.0	1.000	0.500	820
30	CMES3038X60L2	38	MXT60	6.0	1.125	0.250	763
30	CMES3038X60L3	38	MXT60	6.0	1.125	0.375	783
30	CMES3038X60L4	38	MXT60	6.0	1.125	0.500	804
30	CMES3044X35L2	44	MXT35	3.5	0.875	0.250	757
30	CMES3044X35L3	44	MXT35	3.5	0.875	0.375	780
30	CMES3044X35L4	44	MXT35	3.5	0.875	0.500	804
30	CMES3044X40L2	44	MXT40	4.0	1.000	0.250	759
30	CMES3044X40L3	44	MXT40	4.0	1.000	0.375	782
30	CMES3044X40L4	44	MXT40	4.0	1.000	0.500	806
30	CMES3044X45L2	44	MXT45	4.5	1.000	0.250	805
30	CMES3044X45L3	44	MXT45	4.5	1.000	0.375	828
30	CMES3044X45L4	44	MXT45	4.5	1.000	0.500	852
30	CMES3044X50L2	44	MXT50	5.0	1.000	0.250	863
30	CMES3044X50L3	44	MXT50	5.0	1.000	0.375	886
30	CMES3044X50L4	44	MXT50	5.0	1.000	0.500	910
30	CMES3044X60L2	44	MXT60	6.0	1.125	0.250	847
30	CMES3044X60L3	44	MXT60	6.0	1.125	0.375	870
30	CMES3044X60L4	44	MXT60	6.0	1.125	0.500	894
30	CMES3051X35L2	51	MXT35	3.5	0.875	0.250	834
30	CMES3051X35L3	51	MXT35	3.5	0.875	0.375	862
30	CMES3051X35L4	51	MXT35	3.5	0.875	0.500	890
30	CMES3051X40L2	51	MXT40	4.0	1.000	0.250	836
30	CMES3051X40L3	51	MXT40	4.0	1.000	0.375	864
30	CMES3051X40L4	51	MXT40	4.0	1.000	0.500	892
30	CMES3051X45L2	51	MXT45	4.5	1.000	0.250	882
30	CMES3051X45L3	51	MXT45	4.5	1.000	0.375	910
30	CMES3051X45L4	51	MXT45	4.5	1.000	0.500	938
30	CMES3051X50L2	51	MXT50	5.0	1.000	0.250	940
30	CMES3051X50L3	51	MXT50	5.0	1.000	0.375	968
30	CMES3051X50L4	51	MXT50	5.0	1.000	0.500	996
30	CMES3051X60L2	51	MXT60	6.0	1.125	0.250	924
30	CMES3051X60L3	51	MXT60	6.0	1.125	0.375	952
30	CMES3051X60L4	51	MXT60	6.0	1.125	0.500	980
30	CMES3057X35L2	57	MXT35	3.5	0.875	0.250	901
30	CMES3057X35L3	57	MXT35	3.5	0.875	0.375	932
30	CMES3057X35L4	57	MXT35	3.5	0.875	0.500	963
30	CMES3057X40L2	57	MXT40	4.0	1.000	0.250	903
30	CMES3057X40L3	57	MXT40	4.0	1.000	0.375	934
30	CMES3057X40L4	57	MXT40	4.0	1.000	0.500	965

* General position for Bushing face - for position per application consult *Martin*.

Martin Elite Series Drum Pulleys

Plain Lagging

Martin



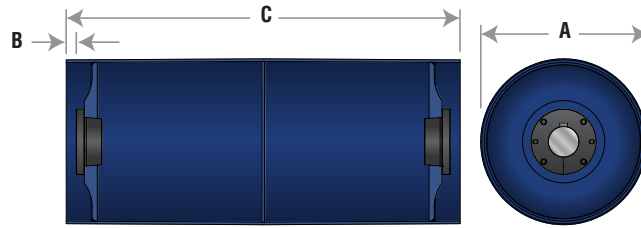
Martin Elite Series Pulleys – Plain Lagging

Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
30	CMES3057X45L2	57	MXT45	4.5	1.000	0.250	949
30	CMES3057X45L3	57	MXT45	4.5	1.000	0.375	980
30	CMES3057X45L4	57	MXT45	4.5	1.000	0.500	1011
30	CMES3057X50L2	57	MXT50	5.0	1.000	0.250	1007
30	CMES3057X50L3	57	MXT50	5.0	1.000	0.375	1038
30	CMES3057X50L4	57	MXT50	5.0	1.000	0.500	1069
30	CMES3057X60L2	57	MXT60	6.0	1.125	0.250	991
30	CMES3057X60L3	57	MXT60	6.0	1.125	0.375	1022
30	CMES3057X60L4	57	MXT60	6.0	1.125	0.500	1053
30	CMES3063X35L2	63	MXT35	3.5	0.875	0.250	985
30	CMES3063X35L3	63	MXT35	3.5	0.875	0.375	1019
30	CMES3063X35L4	63	MXT35	3.5	0.875	0.500	1053
30	CMES3063X40L2	63	MXT40	4.0	1.000	0.250	987
30	CMES3063X40L3	63	MXT40	4.0	1.000	0.375	1021
30	CMES3063X40L4	63	MXT40	4.0	1.000	0.500	1055
30	CMES3063X45L2	63	MXT45	4.5	1.000	0.250	1033
30	CMES3063X45L3	63	MXT45	4.5	1.000	0.375	1067
30	CMES3063X45L4	63	MXT45	4.5	1.000	0.500	1101
30	CMES3063X50L2	63	MXT50	5.0	1.000	0.250	1091
30	CMES3063X50L3	63	MXT50	5.0	1.000	0.375	1125
30	CMES3063X50L4	63	MXT50	5.0	1.000	0.500	1159
30	CMES3063X60L2	63	MXT60	6.0	1.125	0.250	1075
30	CMES3063X60L3	63	MXT60	6.0	1.125	0.375	1109
30	CMES3063X60L4	63	MXT60	6.0	1.125	0.500	1143
36	CMES3620X35L2	20	MXT35	3.5	0.875	0.250	702
36	CMES3620X35L3	20	MXT35	3.5	0.875	0.375	715
36	CMES3620X35L4	20	MXT35	3.5	0.875	0.500	728
36	CMES3620X40L2	20	MXT40	4.0	1.000	0.250	702
36	CMES3620X40L3	20	MXT40	4.0	1.000	0.375	715
36	CMES3620X40L4	20	MXT40	4.0	1.000	0.500	728
36	CMES3620X45L2	20	MXT45	4.5	1.000	0.250	698
36	CMES3620X45L3	20	MXT45	4.5	1.000	0.375	711
36	CMES3620X45L4	20	MXT45	4.5	1.000	0.500	724
36	CMES3620X50L2	20	MXT50	5.0	1.000	0.250	770
36	CMES3620X50L3	20	MXT50	5.0	1.000	0.375	783
36	CMES3620X50L4	20	MXT50	5.0	1.000	0.500	796
36	CMES3620X60L2	20	MXT60	6.0	1.125	0.250	754
36	CMES3620X60L3	20	MXT60	6.0	1.125	0.375	767
36	CMES3620X60L4	20	MXT60	6.0	1.125	0.500	780
36	CMES3626X35L2	26	MXT35	3.5	0.875	0.250	782
36	CMES3626X35L3	26	MXT35	3.5	0.875	0.375	799
36	CMES3626X35L4	26	MXT35	3.5	0.875	0.500	816
36	CMES3626X40L2	26	MXT40	4.0	1.000	0.250	782
36	CMES3626X40L3	26	MXT40	4.0	1.000	0.375	799
36	CMES3626X40L4	26	MXT40	4.0	1.000	0.500	816
36	CMES3626X45L2	26	MXT45	4.5	1.000	0.250	778
36	CMES3626X45L3	26	MXT45	4.5	1.000	0.375	795
36	CMES3626X45L4	26	MXT45	4.5	1.000	0.500	812

Martin Elite Series Pulleys – Plain Lagging

Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
36	CMES3626X50L2	26	MXT50	5.0	1.000	0.250	850
36	CMES3626X50L3	26	MXT50	5.0	1.000	0.375	867
36	CMES3626X50L4	26	MXT50	5.0	1.000	0.500	884
36	CMES3626X60L2	26	MXT60	6.0	1.125	0.250	834
36	CMES3626X60L3	26	MXT60	6.0	1.125	0.375	851
36	CMES3626X60L4	26	MXT60	6.0	1.125	0.500	868
36	CMES3632X35L2	32	MXT35	3.5	0.875	0.250	884
36	CMES3632X35L3	32	MXT35	3.5	0.875	0.375	905
36	CMES3632X35L4	32	MXT35	3.5	0.875	0.500	926
36	CMES3632X40L2	32	MXT40	4.0	1.000	0.250	884
36	CMES3632X40L3	32	MXT40	4.0	1.000	0.375	905
36	CMES3632X40L4	32	MXT40	4.0	1.000	0.500	926
36	CMES3632X45L2	32	MXT45	4.5	1.000	0.250	880
36	CMES3632X45L3	32	MXT45	4.5	1.000	0.375	901
36	CMES3632X45L4	32	MXT45	4.5	1.000	0.500	922
36	CMES3632X50L2	32	MXT50	5.0	1.000	0.250	952
36	CMES3632X50L3	32	MXT50	5.0	1.000	0.375	973
36	CMES3632X50L4	32	MXT50	5.0	1.000	0.500	994
36	CMES3632X60L2	32	MXT60	6.0	1.125	0.250	936
36	CMES3632X60L3	32	MXT60	6.0	1.125	0.375	957
36	CMES3632X60L4	32	MXT60	6.0	1.125	0.500	978
36	CMES3638X35L2	38	MXT35	3.5	0.875	0.250	964
36	CMES3638X35L3	38	MXT35	3.5	0.875	0.375	989
36	CMES3638X35L4	38	MXT35	3.5	0.875	0.500	1014
36	CMES3638X40L2	38	MXT40	4.0	1.000	0.250	964
36	CMES3638X40L3	38	MXT40	4.0	1.000	0.375	989
36	CMES3638X40L4	38	MXT40	4.0	1.000	0.500	1014
36	CMES3638X45L2	38	MXT45	4.5	1.000	0.250	960
36	CMES3638X45L3	38	MXT45	4.5	1.000	0.375	985
36	CMES3638X45L4	38	MXT45	4.5	1.000	0.500	1010
36	CMES3638X50L2	38	MXT50	5.0	1.000	0.250	1032
36	CMES3638X50L3	38	MXT50	5.0	1.000	0.375	1057
36	CMES3638X50L4	38	MXT50	5.0	1.000	0.500	1082
36	CMES3638X60L2	38	MXT60	6.0	1.125	0.250	1016
36	CMES3638X60L3	38	MXT60	6.0	1.125	0.375	1041
36	CMES3638X60L4	38	MXT60	6.0	1.125	0.500	1066
36	CMES3644X35L2	44	MXT35	3.5	0.875	0.250	1067
36	CMES3644X35L3	44	MXT35	3.5	0.875	0.375	1095
36	CMES3644X35L4	44	MXT35	3.5	0.875	0.500	1124
36	CMES3644X40L2	44	MXT40	4.0	1.000	0.250	1067
36	CMES3644X40L3	44	MXT40	4.0	1.000	0.375	1095
36	CMES3644X40L4	44	MXT40	4.0	1.000	0.500	1124
36	CMES3644X45L2	44	MXT45	4.5	1.000	0.250	1063
36	CMES3644X45L3	44	MXT45	4.5	1.000	0.375	1091
36	CMES3644X45L4	44	MXT45	4.5	1.000	0.500	1120
36	CMES3644X50L2	44	MXT50	5.0	1.000	0.250	1135
36	CMES3644X50L3	44	MXT50	5.0	1.000	0.375	1163
36	CMES3644X50L4	44	MXT50	5.0	1.000	0.500	1192

* General position for Bushing face - for position per application consult Martin.



Martin Elite Series Pulleys – Plain Lagging

Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
36	CMES3644X60L2	44	MXT60	6.0	1.125	0.250	1119
36	CMES3644X60L3	44	MXT60	6.0	1.125	0.375	1147
36	CMES3644X60L4	44	MXT60	6.0	1.125	0.500	1176
36	CMES3651X35L2	51	MXT35	3.5	0.875	0.250	1160
36	CMES3651X35L3	51	MXT35	3.5	0.875	0.375	1193
36	CMES3651X35L4	51	MXT35	3.5	0.875	0.500	1226
36	CMES3651X40L2	51	MXT40	4.0	1.000	0.250	1160
36	CMES3651X40L3	51	MXT40	4.0	1.000	0.375	1193
36	CMES3651X40L4	51	MXT40	4.0	1.000	0.500	1226
36	CMES3651X45L2	51	MXT45	4.5	1.000	0.250	1156
36	CMES3651X45L3	51	MXT45	4.5	1.000	0.375	1189
36	CMES3651X45L4	51	MXT45	4.5	1.000	0.500	1222
36	CMES3651X50L2	51	MXT50	5.0	1.000	0.250	1228
36	CMES3651X50L3	51	MXT50	5.0	1.000	0.375	1261
36	CMES3651X50L4	51	MXT50	5.0	1.000	0.500	1294
36	CMES3651X60L2	51	MXT60	6.0	1.125	0.250	1212
36	CMES3651X60L3	51	MXT60	6.0	1.125	0.375	1245
36	CMES3651X60L4	51	MXT60	6.0	1.125	0.500	1278
36	CMES3657X35L2	57	MXT35	3.5	0.875	0.250	1240
36	CMES3657X35L3	57	MXT35	3.5	0.875	0.375	1277
36	CMES3657X35L4	57	MXT35	3.5	0.875	0.500	1314
36	CMES3657X40L2	57	MXT40	4.0	1.000	0.250	1240
36	CMES3657X40L3	57	MXT40	4.0	1.000	0.375	1277
36	CMES3657X40L4	57	MXT40	4.0	1.000	0.500	1314
36	CMES3657X45L2	57	MXT45	4.5	1.000	0.250	1236
36	CMES3657X45L3	57	MXT45	4.5	1.000	0.375	1273
36	CMES3657X45L4	57	MXT45	4.5	1.000	0.500	1310
36	CMES3657X50L2	57	MXT50	5.0	1.000	0.250	1308
36	CMES3657X50L3	57	MXT50	5.0	1.000	0.375	1345
36	CMES3657X50L4	57	MXT50	5.0	1.000	0.500	1382
36	CMES3657X60L2	57	MXT60	6.0	1.125	0.250	1292
36	CMES3657X60L3	57	MXT60	6.0	1.125	0.375	1329
36	CMES3657X60L4	57	MXT60	6.0	1.125	0.500	1366
36	CMES3663X35L2	63	MXT35	3.5	0.875	0.250	1342
36	CMES3663X35L3	63	MXT35	3.5	0.875	0.375	1383
36	CMES3663X35L4	63	MXT35	3.5	0.875	0.500	1424
36	CMES3663X40L2	63	MXT40	4.0	1.000	0.250	1342
36	CMES3663X40L3	63	MXT40	4.0	1.000	0.375	1383
36	CMES3663X40L4	63	MXT40	4.0	1.000	0.500	1424
36	CMES3663X45L2	63	MXT45	4.5	1.000	0.250	1338
36	CMES3663X45L3	63	MXT45	4.5	1.000	0.375	1379
36	CMES3663X45L4	63	MXT45	4.5	1.000	0.500	1420
36	CMES3663X50L2	63	MXT50	5.0	1.000	0.250	1410
36	CMES3663X50L3	63	MXT50	5.0	1.000	0.375	1451
36	CMES3663X50L4	63	MXT50	5.0	1.000	0.500	1492
36	CMES3663X60L2	63	MXT60	6.0	1.125	0.250	1394
36	CMES3663X60L3	63	MXT60	6.0	1.125	0.375	1435
36	CMES3663X60L4	63	MXT60	6.0	1.125	0.500	1476

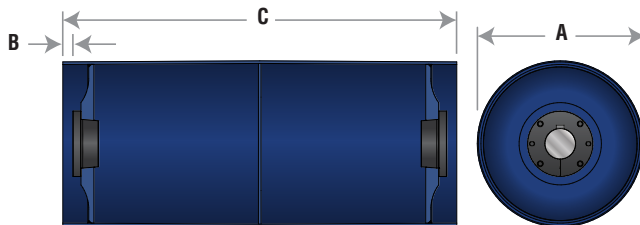


Custom Shafting Available!

* General position for Bushing face - for position per application consult *Martin*.

Martin Elite Series Drum Pulleys

Herringbone Lagging



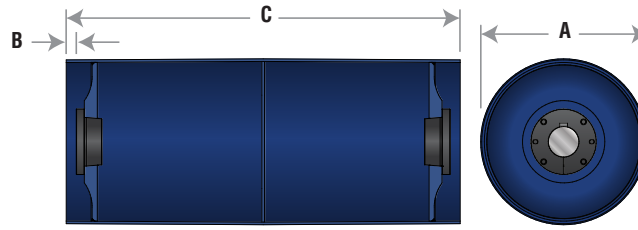
Martin Elite Series Pulleys – Herringbone Lagging

Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
14	CMES1420X25L3H	20	MXT25	2.5	0.750	0.375	128
14	CMES1420X25L4H	20	MXT25	2.5	0.750	0.500	133
14	CMES1420X30L3H	20	MXT30	3.0	0.875	0.375	126
14	CMES1420X30L4H	20	MXT30	3.0	0.875	0.500	131
14	CMES1420X35L3H	20	MXT35	3.5	0.875	0.375	124
14	CMES1420X35L4H	20	MXT35	3.5	0.875	0.500	129
14	CMES1426X25L3H	26	MXT25	2.5	0.750	0.375	151
14	CMES1426X25L4H	26	MXT25	2.5	0.750	0.500	158
14	CMES1426X30L3H	26	MXT30	3.0	0.875	0.375	149
14	CMES1426X30L4H	26	MXT30	3.0	0.875	0.500	156
14	CMES1426X35L3H	26	MXT35	3.5	0.875	0.375	147
14	CMES1426X35L4H	26	MXT35	3.5	0.875	0.500	154
14	CMES1432X25L3H	32	MXT25	2.5	0.750	0.375	180
14	CMES1432X25L4H	32	MXT25	2.5	0.750	0.500	188
14	CMES1432X30L3H	32	MXT30	3.0	0.875	0.375	178
14	CMES1432X30L4H	32	MXT30	3.0	0.875	0.500	186
14	CMES1432X35L3H	32	MXT35	3.5	0.875	0.375	176
14	CMES1432X35L4H	32	MXT35	3.5	0.875	0.500	184
14	CMES1438X25L3H	38	MXT25	2.5	0.750	0.375	203
14	CMES1438X25L4H	38	MXT25	2.5	0.750	0.500	213
14	CMES1438X30L3H	38	MXT30	3.0	0.875	0.375	201
14	CMES1438X30L4H	38	MXT30	3.0	0.875	0.500	211
14	CMES1438X35L3H	38	MXT35	3.5	0.875	0.375	199
14	CMES1438X35L4H	38	MXT35	3.5	0.875	0.500	209
14	CMES1444X25L3H	44	MXT25	2.5	0.750	0.375	232
14	CMES1444X25L4H	44	MXT25	2.5	0.750	0.500	244
14	CMES1444X30L3H	44	MXT30	3.0	0.875	0.375	230
14	CMES1444X30L4H	44	MXT30	3.0	0.875	0.500	242
14	CMES1444X35L3H	44	MXT35	3.5	0.875	0.375	228
14	CMES1444X35L4H	44	MXT35	3.5	0.875	0.500	240
14	CMES1451X25L3H	51	MXT25	2.5	0.750	0.375	259
14	CMES1451X25L4H	51	MXT25	2.5	0.750	0.500	273
14	CMES1451X30L3H	51	MXT30	3.0	0.875	0.375	257
14	CMES1451X30L4H	51	MXT30	3.0	0.875	0.500	271
14	CMES1451X35L3H	51	MXT35	3.5	0.875	0.375	255
14	CMES1451X35L4H	51	MXT35	3.5	0.875	0.500	269
14	CMES1457X25L3H	57	MXT25	2.5	0.750	0.375	283
14	CMES1457X25L4H	57	MXT25	2.5	0.750	0.500	298
14	CMES1457X30L3H	57	MXT30	3.0	0.875	0.375	281
14	CMES1457X30L4H	57	MXT30	3.0	0.875	0.500	296
14	CMES1457X35L3H	57	MXT35	3.5	0.875	0.375	279
14	CMES1457X35L4H	57	MXT35	3.5	0.875	0.500	294
14	CMES1463X25L3H	63	MXT25	2.5	0.750	0.375	312
14	CMES1463X25L4H	63	MXT25	2.5	0.750	0.500	328
14	CMES1463X30L3H	63	MXT30	3.0	0.875	0.375	310
14	CMES1463X30L4H	63	MXT30	3.0	0.875	0.500	326
14	CMES1463X35L3H	63	MXT35	3.5	0.875	0.375	308
14	CMES1463X35L4H	63	MXT35	3.5	0.875	0.500	324

Martin Elite Series Pulleys – Herringbone Lagging

Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
16	CMES1620X25L3H	20	MXT25	2.5	0.750	0.375	153
16	CMES1620X25L4H	20	MXT25	2.5	0.750	0.500	159
16	CMES1620X30L3H	20	MXT30	3.0	0.875	0.375	151
16	CMES1620X30L4H	20	MXT30	3.0	0.875	0.500	157
16	CMES1620X35L3H	20	MXT35	3.5	0.875	0.375	147
16	CMES1620X35L4H	20	MXT35	3.5	0.875	0.500	153
16	CMES1620X40L3H	20	MXT40	4.0	1.000	0.375	167
16	CMES1620X40L4H	20	MXT40	4.0	1.000	0.500	173
16	CMES1626X25L3H	26	MXT25	2.5	0.750	0.375	179
16	CMES1626X25L4H	26	MXT25	2.5	0.750	0.500	187
16	CMES1626X30L3H	26	MXT30	3.0	0.875	0.375	177
16	CMES1626X30L4H	26	MXT30	3.0	0.875	0.500	185
16	CMES1626X35L3H	26	MXT35	3.5	0.875	0.375	173
16	CMES1626X35L4H	26	MXT35	3.5	0.875	0.500	181
16	CMES1626X40L3H	26	MXT40	4.0	1.000	0.375	193
16	CMES1626X40L4H	26	MXT40	4.0	1.000	0.500	201
16	CMES1632X25L3H	32	MXT25	2.5	0.750	0.375	213
16	CMES1632X25L4H	32	MXT25	2.5	0.750	0.500	222
16	CMES1632X30L3H	32	MXT30	3.0	0.875	0.375	211
16	CMES1632X30L4H	32	MXT30	3.0	0.875	0.500	220
16	CMES1632X35L3H	32	MXT35	3.5	0.875	0.375	207
16	CMES1632X35L4H	32	MXT35	3.5	0.875	0.500	216
16	CMES1632X40L3H	32	MXT40	4.0	1.000	0.375	227
16	CMES1632X40L4H	32	MXT40	4.0	1.000	0.500	236
16	CMES1638X25L3H	38	MXT25	2.5	0.750	0.375	239
16	CMES1638X25L4H	38	MXT25	2.5	0.750	0.500	251
16	CMES1638X30L3H	38	MXT30	3.0	0.875	0.375	237
16	CMES1638X30L4H	38	MXT30	3.0	0.875	0.500	249
16	CMES1638X35L3H	38	MXT35	3.5	0.875	0.375	233
16	CMES1638X35L4H	38	MXT35	3.5	0.875	0.500	245
16	CMES1638X40L3H	38	MXT40	4.0	1.000	0.375	253
16	CMES1638X40L4H	38	MXT40	4.0	1.000	0.500	265
16	CMES1644X25L3H	44	MXT25	2.5	0.750	0.375	273
16	CMES1644X25L4H	44	MXT25	2.5	0.750	0.500	286
16	CMES1644X30L3H	44	MXT30	3.0	0.875	0.375	271
16	CMES1644X30L4H	44	MXT30	3.0	0.875	0.500	284
16	CMES1644X35L3H	44	MXT35	3.5	0.875	0.375	267
16	CMES1644X35L4H	44	MXT35	3.5	0.875	0.500	280
16	CMES1644X40L3H	44	MXT40	4.0	1.000	0.375	287
16	CMES1644X40L4H	44	MXT40	4.0	1.000	0.500	300
16	CMES1651X25L3H	51	MXT25	2.5	0.750	0.375	304
16	CMES1651X25L4H	51	MXT25	2.5	0.750	0.500	319
16	CMES1651X30L3H	51	MXT30	3.0	0.875	0.375	302
16	CMES1651X30L4H	51	MXT30	3.0	0.875	0.500	317
16	CMES1651X35L3H	51	MXT35	3.5	0.875	0.375	298
16	CMES1651X35L4H	51	MXT35	3.5	0.875	0.500	313
16	CMES1651X40L3H	51	MXT40	4.0	1.000	0.375	318
16	CMES1651X40L4H	51	MXT40	4.0	1.000	0.500	333

* General position for Bushing face - for position per application consult Martin.



Martin Elite Series Pulleys – Herringbone Lagging

Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
16	CMES1657X25L3H	57	MXT25	2.5	0.750	0.375	331
16	CMES1657X25L4H	57	MXT25	2.5	0.750	0.500	348
16	CMES1657X30L3H	57	MXT30	3.0	0.875	0.375	329
16	CMES1657X30L4H	57	MXT30	3.0	0.875	0.500	346
16	CMES1657X35L3H	57	MXT35	3.5	0.875	0.375	325
16	CMES1657X35L4H	57	MXT35	3.5	0.875	0.500	342
16	CMES1657X40L3H	57	MXT40	4.0	1.000	0.375	345
16	CMES1657X40L4H	57	MXT40	4.0	1.000	0.500	362
16	CMES1663X25L3H	63	MXT25	2.5	0.750	0.375	364
16	CMES1663X25L4H	63	MXT25	2.5	0.750	0.500	383
16	CMES1663X30L3H	63	MXT30	3.0	0.875	0.375	362
16	CMES1663X30L4H	63	MXT30	3.0	0.875	0.500	381
16	CMES1663X35L3H	63	MXT35	3.5	0.875	0.375	358
16	CMES1663X35L4H	63	MXT35	3.5	0.875	0.500	377
16	CMES1663X40L3H	63	MXT40	4.0	1.000	0.375	378
16	CMES1663X40L4H	63	MXT40	4.0	1.000	0.500	397
18	CMES1820X25L3H	20	MXT25	2.5	0.750	0.375	176
18	CMES1820X25L4H	20	MXT25	2.5	0.750	0.500	182
18	CMES1820X30L3H	20	MXT30	3.0	0.875	0.375	174
18	CMES1820X30L4H	20	MXT30	3.0	0.875	0.500	180
18	CMES1820X35L3H	20	MXT35	3.5	0.875	0.375	174
18	CMES1820X35L4H	20	MXT35	3.5	0.875	0.500	180
18	CMES1820X40L3H	20	MXT40	4.0	1.000	0.375	196
18	CMES1820X40L4H	20	MXT40	4.0	1.000	0.500	202
18	CMES1820X45L3H	20	MXT45	4.5	1.000	0.375	204
18	CMES1820X45L4H	20	MXT45	4.5	1.000	0.500	210
18	CMES1826X25L3H	26	MXT25	2.5	0.750	0.375	206
18	CMES1826X25L4H	26	MXT25	2.5	0.750	0.500	214
18	CMES1826X30L3H	26	MXT30	3.0	0.875	0.375	204
18	CMES1826X30L4H	26	MXT30	3.0	0.875	0.500	212
18	CMES1826X35L3H	26	MXT35	3.5	0.875	0.375	204
18	CMES1826X35L4H	26	MXT35	3.5	0.875	0.500	212
18	CMES1826X40L3H	26	MXT40	4.0	1.000	0.375	226
18	CMES1826X40L4H	26	MXT40	4.0	1.000	0.500	234
18	CMES1826X45L3H	26	MXT45	4.5	1.000	0.375	234
18	CMES1826X45L4H	26	MXT45	4.5	1.000	0.500	242
18	CMES1832X25L3H	32	MXT25	2.5	0.750	0.375	243
18	CMES1832X25L4H	32	MXT25	2.5	0.750	0.500	253
18	CMES1832X30L3H	32	MXT30	3.0	0.875	0.375	241
18	CMES1832X30L4H	32	MXT30	3.0	0.875	0.500	251
18	CMES1832X35L3H	32	MXT35	3.5	0.875	0.375	241
18	CMES1832X35L4H	32	MXT35	3.5	0.875	0.500	251
18	CMES1832X40L3H	32	MXT40	4.0	1.000	0.375	263
18	CMES1832X40L4H	32	MXT40	4.0	1.000	0.500	273
18	CMES1832X45L3H	32	MXT45	4.5	1.000	0.375	271
18	CMES1832X45L4H	32	MXT45	4.5	1.000	0.500	281
18	CMES1838X25L3H	38	MXT25	2.5	0.750	0.375	273
18	CMES1838X25L4H	38	MXT25	2.5	0.750	0.500	285

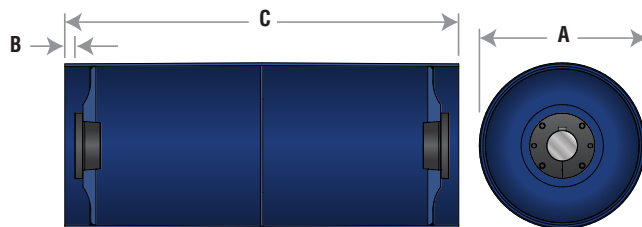
Martin Elite Series Pulleys – Herringbone Lagging

Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
18	CMES1838X30L3H	38	MXT30	3.0	0.875	0.375	271
18	CMES1838X30L4H	38	MXT30	3.0	0.875	0.500	283
18	CMES1838X35L3H	38	MXT35	3.5	0.875	0.375	271
18	CMES1838X35L4H	38	MXT35	3.5	0.875	0.500	283
18	CMES1838X40L3H	38	MXT40	4.0	1.000	0.375	293
18	CMES1838X40L4H	38	MXT40	4.0	1.000	0.500	305
18	CMES1838X45L3H	38	MXT45	4.5	1.000	0.375	301
18	CMES1838X45L4H	38	MXT45	4.5	1.000	0.500	313
18	CMES1844X25L3H	44	MXT25	2.5	0.750	0.375	310
18	CMES1844X25L4H	44	MXT25	2.5	0.750	0.500	324
18	CMES1844X30L3H	44	MXT30	3.0	0.875	0.375	308
18	CMES1844X30L4H	44	MXT30	3.0	0.875	0.500	322
18	CMES1844X35L3H	44	MXT35	3.5	0.875	0.375	308
18	CMES1844X35L4H	44	MXT35	3.5	0.875	0.500	322
18	CMES1844X40L3H	44	MXT40	4.0	1.000	0.375	330
18	CMES1844X40L4H	44	MXT40	4.0	1.000	0.500	344
18	CMES1844X45L3H	44	MXT45	4.5	1.000	0.375	338
18	CMES1844X45L4H	44	MXT45	4.5	1.000	0.500	352
18	CMES1851X25L3H	51	MXT25	2.5	0.750	0.375	344
18	CMES1851X25L4H	51	MXT25	2.5	0.750	0.500	362
18	CMES1851X30L3H	51	MXT30	3.0	0.875	0.375	342
18	CMES1851X30L4H	51	MXT30	3.0	0.875	0.500	360
18	CMES1851X35L3H	51	MXT35	3.5	0.875	0.375	342
18	CMES1851X35L4H	51	MXT35	3.5	0.875	0.500	360
18	CMES1851X40L3H	51	MXT40	4.0	1.000	0.375	364
18	CMES1851X40L4H	51	MXT40	4.0	1.000	0.500	382
18	CMES1851X45L3H	51	MXT45	4.5	1.000	0.375	372
18	CMES1851X45L4H	51	MXT45	4.5	1.000	0.500	390
18	CMES1857X25L3H	57	MXT25	2.5	0.750	0.375	374
18	CMES1857X25L4H	57	MXT25	2.5	0.750	0.500	393
18	CMES1857X30L3H	57	MXT30	3.0	0.875	0.375	372
18	CMES1857X30L4H	57	MXT30	3.0	0.875	0.500	391
18	CMES1857X35L3H	57	MXT35	3.5	0.875	0.375	372
18	CMES1857X35L4H	57	MXT35	3.5	0.875	0.500	391
18	CMES1857X40L3H	57	MXT40	4.0	1.000	0.375	394
18	CMES1857X40L4H	57	MXT40	4.0	1.000	0.500	413
18	CMES1857X45L3H	57	MXT45	4.5	1.000	0.375	402
18	CMES1857X45L4H	57	MXT45	4.5	1.000	0.500	421
18	CMES1863X25L3H	63	MXT25	2.5	0.750	0.375	411
18	CMES1863X25L4H	63	MXT25	2.5	0.750	0.500	432
18	CMES1863X30L3H	63	MXT30	3.0	0.875	0.375	409
18	CMES1863X30L4H	63	MXT30	3.0	0.875	0.500	430
18	CMES1863X35L3H	63	MXT35	3.5	0.875	0.375	409
18	CMES1863X35L4H	63	MXT35	3.5	0.875	0.500	430
18	CMES1863X40L3H	63	MXT40	4.0	1.000	0.375	431
18	CMES1863X40L4H	63	MXT40	4.0	1.000	0.500	452
18	CMES1863X45L3H	63	MXT45	4.5	1.000	0.375	439
18	CMES1863X45L4H	63	MXT45	4.5	1.000	0.500	460

* General position for Bushing face - for position per application consult *Martin*.

Martin Elite Series Drum Pulleys

Herringbone Lagging



Martin Elite Series Pulleys – Herringbone Lagging

Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
20	CMES2020X25L3H	20	MXT25	2.5	0.750	0.375	205
20	CMES2020X25L4H	20	MXT25	2.5	0.750	0.500	212
20	CMES2020X30L3H	20	MXT30	3.0	0.875	0.375	203
20	CMES2020X30L4H	20	MXT30	3.0	0.875	0.500	210
20	CMES2020X35L3H	20	MXT35	3.5	0.875	0.375	195
20	CMES2020X35L4H	20	MXT35	3.5	0.875	0.500	202
20	CMES2020X40L3H	20	MXT40	4.0	1.000	0.375	217
20	CMES2020X40L4H	20	MXT40	4.0	1.000	0.500	224
20	CMES2020X45L3H	20	MXT45	4.5	1.000	0.375	235
20	CMES2020X45L4H	20	MXT45	4.5	1.000	0.500	242
20	CMES2020X50L3H	20	MXT50	5.0	1.000	0.375	317
20	CMES2020X50L4H	20	MXT50	5.0	1.000	0.500	325
20	CMES2026X25L3H	26	MXT25	2.5	0.750	0.375	238
20	CMES2026X25L4H	26	MXT25	2.5	0.750	0.500	247
20	CMES2026X30L3H	26	MXT30	3.0	0.875	0.375	236
20	CMES2026X30L4H	26	MXT30	3.0	0.875	0.500	245
20	CMES2026X35L3H	26	MXT35	3.5	0.875	0.375	228
20	CMES2026X35L4H	26	MXT35	3.5	0.875	0.500	237
20	CMES2026X40L3H	26	MXT40	4.0	1.000	0.375	250
20	CMES2026X40L4H	26	MXT40	4.0	1.000	0.500	259
20	CMES2026X45L3H	26	MXT45	4.5	1.000	0.375	268
20	CMES2026X45L4H	26	MXT45	4.5	1.000	0.500	277
20	CMES2026X50L3H	26	MXT50	5.0	1.000	0.375	364
20	CMES2026X50L4H	26	MXT50	5.0	1.000	0.500	373
20	CMES2032X25L3H	32	MXT25	2.5	0.750	0.375	279
20	CMES2032X25L4H	32	MXT25	2.5	0.750	0.500	291
20	CMES2032X30L3H	32	MXT30	3.0	0.875	0.375	277
20	CMES2032X30L4H	32	MXT30	3.0	0.875	0.500	289
20	CMES2032X35L3H	32	MXT35	3.5	0.875	0.375	269
20	CMES2032X35L4H	32	MXT35	3.5	0.875	0.500	281
20	CMES2032X40L3H	32	MXT40	4.0	1.000	0.375	291
20	CMES2032X40L4H	32	MXT40	4.0	1.000	0.500	303
20	CMES2032X45L3H	32	MXT45	4.5	1.000	0.375	309
20	CMES2032X45L4H	32	MXT45	4.5	1.000	0.500	321
20	CMES2032X50L3H	32	MXT50	5.0	1.000	0.375	418
20	CMES2032X50L4H	32	MXT50	5.0	1.000	0.500	430
20	CMES2038X25L3H	38	MXT25	2.5	0.750	0.375	312
20	CMES2038X25L4H	38	MXT25	2.5	0.750	0.500	326
20	CMES2038X30L3H	38	MXT30	3.0	0.875	0.375	310
20	CMES2038X30L4H	38	MXT30	3.0	0.875	0.500	324
20	CMES2038X35L3H	38	MXT35	3.5	0.875	0.375	302
20	CMES2038X35L4H	38	MXT35	3.5	0.875	0.500	316
20	CMES2038X40L3H	38	MXT40	4.0	1.000	0.375	324
20	CMES2038X40L4H	38	MXT40	4.0	1.000	0.500	338
20	CMES2038X45L3H	38	MXT45	4.5	1.000	0.375	342
20	CMES2038X45L4H	38	MXT45	4.5	1.000	0.500	356
20	CMES2038X50L3H	38	MXT50	5.0	1.000	0.375	465
20	CMES2038X50L4H	38	MXT50	5.0	1.000	0.500	479

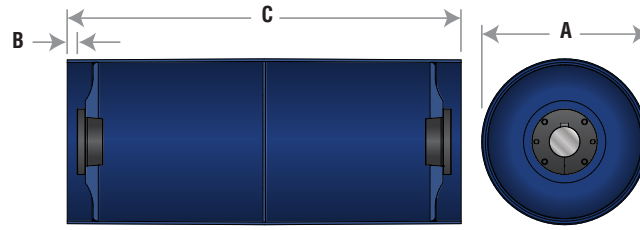
Martin Elite Series Pulleys – Herringbone Lagging

Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
20	CMES2044X25L3H	44	MXT25	2.5	0.750	0.375	354
20	CMES2044X25L4H	44	MXT25	2.5	0.750	0.500	370
20	CMES2044X30L3H	44	MXT30	3.0	0.875	0.375	352
20	CMES2044X30L4H	44	MXT30	3.0	0.875	0.500	368
20	CMES2044X35L3H	44	MXT35	3.5	0.875	0.375	344
20	CMES2044X35L4H	44	MXT35	3.5	0.875	0.500	360
20	CMES2044X40L3H	44	MXT40	4.0	1.000	0.375	366
20	CMES2044X40L4H	44	MXT40	4.0	1.000	0.500	382
20	CMES2044X45L3H	44	MXT45	4.5	1.000	0.375	384
20	CMES2044X45L4H	44	MXT45	4.5	1.000	0.500	400
20	CMES2044X50L3H	44	MXT50	5.0	1.000	0.375	520
20	CMES2044X50L4H	44	MXT50	5.0	1.000	0.500	536
20	CMES2051X25L3H	51	MXT25	2.5	0.750	0.375	392
20	CMES2051X25L4H	51	MXT25	2.5	0.750	0.500	411
20	CMES2051X30L3H	51	MXT30	3.0	0.875	0.375	390
20	CMES2051X30L4H	51	MXT30	3.0	0.875	0.500	409
20	CMES2051X35L3H	51	MXT35	3.5	0.875	0.375	382
20	CMES2051X35L4H	51	MXT35	3.5	0.875	0.500	401
20	CMES2051X40L3H	51	MXT40	4.0	1.000	0.375	404
20	CMES2051X40L4H	51	MXT40	4.0	1.000	0.500	423
20	CMES2051X45L3H	51	MXT45	4.5	1.000	0.375	422
20	CMES2051X45L4H	51	MXT45	4.5	1.000	0.500	441
20	CMES2051X50L3H	51	MXT50	5.0	1.000	0.375	574
20	CMES2051X50L4H	51	MXT50	5.0	1.000	0.500	593
20	CMES2057X25L3H	57	MXT25	2.5	0.750	0.375	426
20	CMES2057X25L4H	57	MXT25	2.5	0.750	0.500	447
20	CMES2057X30L3H	57	MXT30	3.0	0.875	0.375	424
20	CMES2057X30L4H	57	MXT30	3.0	0.875	0.500	445
20	CMES2057X35L3H	57	MXT35	3.5	0.875	0.375	416
20	CMES2057X35L4H	57	MXT35	3.5	0.875	0.500	437
20	CMES2057X40L3H	57	MXT40	4.0	1.000	0.375	438
20	CMES2057X40L4H	57	MXT40	4.0	1.000	0.500	459
20	CMES2057X45L3H	57	MXT45	4.5	1.000	0.375	456
20	CMES2057X45L4H	57	MXT45	4.5	1.000	0.500	477
20	CMES2057X50L3H	57	MXT50	5.0	1.000	0.375	621
20	CMES2057X50L4H	57	MXT50	5.0	1.000	0.500	642
20	CMES2063X25L3H	63	MXT25	2.5	0.750	0.375	467
20	CMES2063X25L4H	63	MXT25	2.5	0.750	0.500	490
20	CMES2063X30L3H	63	MXT30	3.0	0.875	0.375	465
20	CMES2063X30L4H	63	MXT30	3.0	0.875	0.500	488
20	CMES2063X35L3H	63	MXT35	3.5	0.875	0.375	457
20	CMES2063X35L4H	63	MXT35	3.5	0.875	0.500	480
20	CMES2063X40L3H	63	MXT40	4.0	1.000	0.375	479
20	CMES2063X40L4H	63	MXT40	4.0	1.000	0.500	502
20	CMES2063X45L3H	63	MXT45	4.5	1.000	0.375	497
20	CMES2063X45L4H	63	MXT45	4.5	1.000	0.500	520
20	CMES2063X50L3H	63	MXT50	5.0	1.000	0.375	675
20	CMES2063X50L4H	63	MXT50	5.0	1.000	0.500	698

* General position for Bushing face - for position per application consult *Martin*.



Martin Elite Series Drum Pulleys Herringbone Lagging



Martin Elite Series Pulleys – Herringbone Lagging

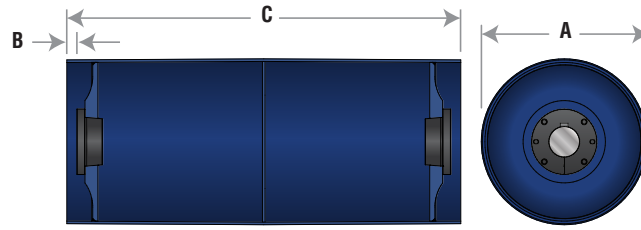
Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
24	CMES2420X30L3H	20	MXT30	3.0	0.875	0.375	271
24	CMES2420X30L4H	20	MXT30	3.0	0.875	0.500	280
24	CMES2420X35L3H	20	MXT35	3.5	0.875	0.375	271
24	CMES2420X35L4H	20	MXT35	3.5	0.875	0.500	280
24	CMES2420X40L3H	20	MXT40	4.0	1.000	0.375	281
24	CMES2420X40L4H	20	MXT40	4.0	1.000	0.500	290
24	CMES2420X45L3H	20	MXT45	4.5	1.000	0.375	311
24	CMES2420X45L4H	20	MXT45	4.5	1.000	0.500	320
24	CMES2420X50L3H	20	MXT50	5.0	1.000	0.375	406
24	CMES2420X50L4H	20	MXT50	5.0	1.000	0.500	415
24	CMES2420X60L3H	20	MXT60	6.0	1.125	0.375	390
24	CMES2420X60L4H	20	MXT60	6.0	1.125	0.500	399
24	CMES2426X30L3H	26	MXT30	3.0	0.875	0.375	311
24	CMES2426X30L4H	26	MXT30	3.0	0.875	0.500	322
24	CMES2426X35L3H	26	MXT35	3.5	0.875	0.375	311
24	CMES2426X35L4H	26	MXT35	3.5	0.875	0.500	322
24	CMES2426X40L3H	26	MXT40	4.0	1.000	0.375	321
24	CMES2426X40L4H	26	MXT40	4.0	1.000	0.500	332
24	CMES2426X45L3H	26	MXT45	4.5	1.000	0.375	351
24	CMES2426X45L4H	26	MXT45	4.5	1.000	0.500	362
24	CMES2426X50L3H	26	MXT50	5.0	1.000	0.375	462
24	CMES2426X50L4H	26	MXT50	5.0	1.000	0.500	473
24	CMES2426X60L3H	26	MXT60	6.0	1.125	0.375	446
24	CMES2426X60L4H	26	MXT60	6.0	1.125	0.500	457
24	CMES2432X30L3H	32	MXT30	3.0	0.875	0.375	360
24	CMES2432X30L4H	32	MXT30	3.0	0.875	0.500	374
24	CMES2432X35L3H	32	MXT35	3.5	0.875	0.375	360
24	CMES2432X35L4H	32	MXT35	3.5	0.875	0.500	374
24	CMES2432X40L3H	32	MXT40	4.0	1.000	0.375	370
24	CMES2432X40L4H	32	MXT40	4.0	1.000	0.500	384
24	CMES2432X45L3H	32	MXT45	4.5	1.000	0.375	400
24	CMES2432X45L4H	32	MXT45	4.5	1.000	0.500	414
24	CMES2432X50L3H	32	MXT50	5.0	1.000	0.375	528
24	CMES2432X50L4H	32	MXT50	5.0	1.000	0.500	542
24	CMES2432X60L3H	32	MXT60	6.0	1.125	0.375	512
24	CMES2432X60L4H	32	MXT60	6.0	1.125	0.500	526
24	CMES2438X30L3H	38	MXT30	3.0	0.875	0.375	400
24	CMES2438X30L4H	38	MXT30	3.0	0.875	0.500	417
24	CMES2438X35L3H	38	MXT35	3.5	0.875	0.375	400
24	CMES2438X35L4H	38	MXT35	3.5	0.875	0.500	417
24	CMES2438X40L3H	38	MXT40	4.0	1.000	0.375	410
24	CMES2438X40L4H	38	MXT40	4.0	1.000	0.500	427
24	CMES2438X45L3H	38	MXT45	4.5	1.000	0.375	440
24	CMES2438X45L4H	38	MXT45	4.5	1.000	0.500	457
24	CMES2438X50L3H	38	MXT50	5.0	1.000	0.375	584
24	CMES2438X50L4H	38	MXT50	5.0	1.000	0.500	600
24	CMES2438X60L3H	38	MXT60	6.0	1.125	0.375	568
24	CMES2438X60L4H	38	MXT60	6.0	1.125	0.500	584

Martin Elite Series Pulleys – Herringbone Lagging

Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
24	CMES2444X30L3H	44	MXT30	3.0	0.875	0.375	450
24	CMES2444X30L4H	44	MXT30	3.0	0.875	0.500	469
24	CMES2444X35L3H	44	MXT35	3.5	0.875	0.375	450
24	CMES2444X35L4H	44	MXT35	3.5	0.875	0.500	469
24	CMES2444X40L3H	44	MXT40	4.0	1.000	0.375	460
24	CMES2444X40L4H	44	MXT40	4.0	1.000	0.500	479
24	CMES2444X45L3H	44	MXT45	4.5	1.000	0.375	490
24	CMES2444X45L4H	44	MXT45	4.5	1.000	0.500	509
24	CMES2444X50L3H	44	MXT50	5.0	1.000	0.375	649
24	CMES2444X50L4H	44	MXT50	5.0	1.000	0.500	669
24	CMES2444X60L3H	44	MXT60	6.0	1.125	0.375	633
24	CMES2444X60L4H	44	MXT60	6.0	1.125	0.500	653
24	CMES2451X30L3H	51	MXT30	3.0	0.875	0.375	496
24	CMES2451X30L4H	51	MXT30	3.0	0.875	0.500	519
24	CMES2451X35L3H	51	MXT35	3.5	0.875	0.375	496
24	CMES2451X35L4H	51	MXT35	3.5	0.875	0.500	519
24	CMES2451X40L3H	51	MXT40	4.0	1.000	0.375	506
24	CMES2451X40L4H	51	MXT40	4.0	1.000	0.500	529
24	CMES2451X45L3H	51	MXT45	4.5	1.000	0.375	536
24	CMES2451X45L4H	51	MXT45	4.5	1.000	0.500	559
24	CMES2451X50L3H	51	MXT50	5.0	1.000	0.375	715
24	CMES2451X50L4H	51	MXT50	5.0	1.000	0.500	737
24	CMES2451X60L3H	51	MXT60	6.0	1.125	0.375	699
24	CMES2451X60L4H	51	MXT60	6.0	1.125	0.500	721
24	CMES2457X30L3H	57	MXT30	3.0	0.875	0.375	536
24	CMES2457X30L4H	57	MXT30	3.0	0.875	0.500	561
24	CMES2457X35L3H	57	MXT35	3.5	0.875	0.375	536
24	CMES2457X35L4H	57	MXT35	3.5	0.875	0.500	561
24	CMES2457X40L3H	57	MXT40	4.0	1.000	0.375	546
24	CMES2457X40L4H	57	MXT40	4.0	1.000	0.500	571
24	CMES2457X45L3H	57	MXT45	4.5	1.000	0.375	576
24	CMES2457X45L4H	57	MXT45	4.5	1.000	0.500	601
24	CMES2457X50L3H	57	MXT50	5.0	1.000	0.375	770
24	CMES2457X50L4H	57	MXT50	5.0	1.000	0.500	796
24	CMES2457X60L3H	57	MXT60	6.0	1.125	0.375	754
24	CMES2457X60L4H	57	MXT60	6.0	1.125	0.500	780
24	CMES2463X30L3H	63	MXT30	3.0	0.875	0.375	586
24	CMES2463X30L4H	63	MXT30	3.0	0.875	0.500	614
24	CMES2463X35L3H	63	MXT35	3.5	0.875	0.375	586
24	CMES2463X35L4H	63	MXT35	3.5	0.875	0.500	614
24	CMES2463X40L3H	63	MXT40	4.0	1.000	0.375	596
24	CMES2463X40L4H	63	MXT40	4.0	1.000	0.500	624
24	CMES2463X45L3H	63	MXT45	4.5	1.000	0.375	626
24	CMES2463X45L4H	63	MXT45	4.5	1.000	0.500	654
24	CMES2463X50L3H	63	MXT50	5.0	1.000	0.375	836
24	CMES2463X50L4H	63	MXT50	5.0	1.000	0.500	864
24	CMES2463X60L3H	63	MXT60	6.0	1.125	0.375	820
24	CMES2463X60L4H	63	MXT60	6.0	1.125	0.500	848

* General position for Bushing face - for position per application consult Martin.

Martin Elite Series Drum Pulleys Herringbone Lagging



Martin Elite Series Pulleys – Herringbone Lagging

Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
30	CMES3020X35L3H	20	MXT35	3.5	0.875	0.375	467
30	CMES3020X35L4H	20	MXT35	3.5	0.875	0.500	478
30	CMES3020X40L3H	20	MXT40	4.0	1.000	0.375	469
30	CMES3020X40L4H	20	MXT40	4.0	1.000	0.500	480
30	CMES3020X45L3H	20	MXT45	4.5	1.000	0.375	515
30	CMES3020X45L4H	20	MXT45	4.5	1.000	0.500	526
30	CMES3020X50L3H	20	MXT50	5.0	1.000	0.375	573
30	CMES3020X50L4H	20	MXT50	5.0	1.000	0.500	584
30	CMES3020X60L3H	20	MXT60	6.0	1.125	0.375	557
30	CMES3020X60L4H	20	MXT60	6.0	1.125	0.500	568
30	CMES3026X35L3H	26	MXT35	3.5	0.875	0.375	536
30	CMES3026X35L4H	26	MXT35	3.5	0.875	0.500	551
30	CMES3026X40L3H	26	MXT40	4.0	1.000	0.375	538
30	CMES3026X40L4H	26	MXT40	4.0	1.000	0.500	553
30	CMES3026X45L3H	26	MXT45	4.5	1.000	0.375	584
30	CMES3026X45L4H	26	MXT45	4.5	1.000	0.500	599
30	CMES3026X50L3H	26	MXT50	5.0	1.000	0.375	642
30	CMES3026X50L4H	26	MXT50	5.0	1.000	0.500	657
30	CMES3026X60L3H	26	MXT60	6.0	1.125	0.375	626
30	CMES3026X60L4H	26	MXT60	6.0	1.125	0.500	641
30	CMES3032X35L3H	32	MXT35	3.5	0.875	0.375	624
30	CMES3032X35L4H	32	MXT35	3.5	0.875	0.500	641
30	CMES3032X40L3H	32	MXT40	4.0	1.000	0.375	626
30	CMES3032X40L4H	32	MXT40	4.0	1.000	0.500	643
30	CMES3032X45L3H	32	MXT45	4.5	1.000	0.375	672
30	CMES3032X45L4H	32	MXT45	4.5	1.000	0.500	689
30	CMES3032X50L3H	32	MXT50	5.0	1.000	0.375	730
30	CMES3032X50L4H	32	MXT50	5.0	1.000	0.500	747
30	CMES3032X60L3H	32	MXT60	6.0	1.125	0.375	714
30	CMES3032X60L4H	32	MXT60	6.0	1.125	0.500	731
30	CMES3038X35L3H	38	MXT35	3.5	0.875	0.375	693
30	CMES3038X35L4H	38	MXT35	3.5	0.875	0.500	714
30	CMES3038X40L3H	38	MXT40	4.0	1.000	0.375	695
30	CMES3038X40L4H	38	MXT40	4.0	1.000	0.500	716
30	CMES3038X45L3H	38	MXT45	4.5	1.000	0.375	741
30	CMES3038X45L4H	38	MXT45	4.5	1.000	0.500	762
30	CMES3038X50L3H	38	MXT50	5.0	1.000	0.375	799
30	CMES3038X50L4H	38	MXT50	5.0	1.000	0.500	820
30	CMES3038X60L3H	38	MXT60	6.0	1.125	0.375	783
30	CMES3038X60L4H	38	MXT60	6.0	1.125	0.500	804
30	CMES3044X35L3H	44	MXT35	3.5	0.875	0.375	780
30	CMES3044X35L4H	44	MXT35	3.5	0.875	0.500	804
30	CMES3044X40L3H	44	MXT40	4.0	1.000	0.375	782
30	CMES3044X40L4H	44	MXT40	4.0	1.000	0.500	806
30	CMES3044X45L3H	44	MXT45	4.5	1.000	0.375	828
30	CMES3044X45L4H	44	MXT45	4.5	1.000	0.500	852
30	CMES3044X50L3H	44	MXT50	5.0	1.000	0.375	886
30	CMES3044X50L4H	44	MXT50	5.0	1.000	0.500	910

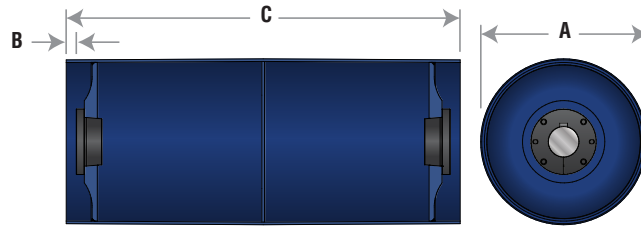
Martin Elite Series Pulleys – Herringbone Lagging

Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
30	CMES3044X60L3H	44	MXT60	6.0	1.125	0.375	870
30	CMES3044X60L4H	44	MXT60	6.0	1.125	0.500	894
30	CMES3051X35L3H	51	MXT35	3.5	0.875	0.375	862
30	CMES3051X35L4H	51	MXT35	3.5	0.875	0.500	890
30	CMES3051X40L3H	51	MXT40	4.0	1.000	0.375	864
30	CMES3051X40L4H	51	MXT40	4.0	1.000	0.500	892
30	CMES3051X45L3H	51	MXT45	4.5	1.000	0.375	910
30	CMES3051X45L4H	51	MXT45	4.5	1.000	0.500	938
30	CMES3051X50L3H	51	MXT50	5.0	1.000	0.375	968
30	CMES3051X50L4H	51	MXT50	5.0	1.000	0.500	996
30	CMES3051X60L3H	51	MXT60	6.0	1.125	0.375	952
30	CMES3051X60L4H	51	MXT60	6.0	1.125	0.500	980
30	CMES3057X35L3H	57	MXT35	3.5	0.875	0.375	932
30	CMES3057X35L4H	57	MXT35	3.5	0.875	0.500	963
30	CMES3057X40L3H	57	MXT40	4.0	1.000	0.375	934
30	CMES3057X40L4H	57	MXT40	4.0	1.000	0.500	965
30	CMES3057X45L3H	57	MXT45	4.5	1.000	0.375	980
30	CMES3057X45L4H	57	MXT45	4.5	1.000	0.500	1011
30	CMES3057X50L3H	57	MXT50	5.0	1.000	0.375	1038
30	CMES3057X50L4H	57	MXT50	5.0	1.000	0.500	1069
30	CMES3057X60L3H	57	MXT60	6.0	1.125	0.375	1022
30	CMES3057X60L4H	57	MXT60	6.0	1.125	0.500	1053
30	CMES3063X35L3H	63	MXT35	3.5	0.875	0.375	1019
30	CMES3063X35L4H	63	MXT35	3.5	0.875	0.500	1053
30	CMES3063X40L3H	63	MXT40	4.0	1.000	0.375	1021
30	CMES3063X40L4H	63	MXT40	4.0	1.000	0.500	1055
30	CMES3063X45L3H	63	MXT45	4.5	1.000	0.375	1067
30	CMES3063X45L4H	63	MXT45	4.5	1.000	0.500	1101
30	CMES3063X50L3H	63	MXT50	5.0	1.000	0.375	1125
30	CMES3063X50L4H	63	MXT50	5.0	1.000	0.500	1159
30	CMES3063X60L3H	63	MXT60	6.0	1.125	0.375	1109
30	CMES3063X60L4H	63	MXT60	6.0	1.125	0.500	1143
36	CMES3620X35L3H	20	MXT35	3.5	0.875	0.375	715
36	CMES3620X35L4H	20	MXT35	3.5	0.875	0.500	728
36	CMES3620X40L3H	20	MXT40	4.0	1.000	0.375	715
36	CMES3620X40L4H	20	MXT40	4.0	1.000	0.500	728
36	CMES3620X45L3H	20	MXT45	4.5	1.000	0.375	711
36	CMES3620X45L4H	20	MXT45	4.5	1.000	0.500	724
36	CMES3620X50L3H	20	MXT50	5.0	1.000	0.375	783
36	CMES3620X50L4H	20	MXT50	5.0	1.000	0.500	796
36	CMES3620X60L3H	20	MXT60	6.0	1.125	0.375	767
36	CMES3620X60L4H	20	MXT60	6.0	1.125	0.500	780
36	CMES3626X35L3H	26	MXT35	3.5	0.875	0.375	799
36	CMES3626X35L4H	26	MXT35	3.5	0.875	0.500	816
36	CMES3626X40L3H	26	MXT40	4.0	1.000	0.375	799
36	CMES3626X40L4H	26	MXT40	4.0	1.000	0.500	816
36	CMES3626X45L3H	26	MXT45	4.5	1.000	0.375	795
36	CMES3626X45L4H	26	MXT45	4.5	1.000	0.500	812

* General position for Bushing face - for position per application consult *Martin*.



Martin Elite Series Drum Pulleys Herringbone Lagging



Martin Elite Series Pulleys – Herringbone Lagging

Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
36	CMES3626X50L3H	26	MXT50	5.0	1.000	0.375	867
36	CMES3626X50L4H	26	MXT50	5.0	1.000	0.500	884
36	CMES3626X60L3H	26	MXT60	6.0	1.125	0.375	851
36	CMES3626X60L4H	26	MXT60	6.0	1.125	0.500	868
36	CMES3632X35L3H	32	MXT35	3.5	0.875	0.375	905
36	CMES3632X35L4H	32	MXT35	3.5	0.875	0.500	926
36	CMES3632X40L3H	32	MXT40	4.0	1.000	0.375	905
36	CMES3632X40L4H	32	MXT40	4.0	1.000	0.500	926
36	CMES3632X45L3H	32	MXT45	4.5	1.000	0.375	901
36	CMES3632X45L4H	32	MXT45	4.5	1.000	0.500	922
36	CMES3632X50L3H	32	MXT50	5.0	1.000	0.375	973
36	CMES3632X50L4H	32	MXT50	5.0	1.000	0.500	994
36	CMES3632X60L3H	32	MXT60	6.0	1.125	0.375	957
36	CMES3632X60L4H	32	MXT60	6.0	1.125	0.500	978
36	CMES3638X35L3H	38	MXT35	3.5	0.875	0.375	989
36	CMES3638X35L4H	38	MXT35	3.5	0.875	0.500	1014
36	CMES3638X40L3H	38	MXT40	4.0	1.000	0.375	989
36	CMES3638X40L4H	38	MXT40	4.0	1.000	0.500	1014
36	CMES3638X45L3H	38	MXT45	4.5	1.000	0.375	985
36	CMES3638X45L4H	38	MXT45	4.5	1.000	0.500	1010
36	CMES3638X50L3H	38	MXT50	5.0	1.000	0.375	1057
36	CMES3638X50L4H	38	MXT50	5.0	1.000	0.500	1082
36	CMES3638X60L3H	38	MXT60	6.0	1.125	0.375	1041
36	CMES3638X60L4H	38	MXT60	6.0	1.125	0.500	1066
36	CMES3644X35L3H	44	MXT35	3.5	0.875	0.375	1095
36	CMES3644X35L4H	44	MXT35	3.5	0.875	0.500	1124
36	CMES3644X40L3H	44	MXT40	4.0	1.000	0.375	1095
36	CMES3644X40L4H	44	MXT40	4.0	1.000	0.500	1124
36	CMES3644X45L3H	44	MXT45	4.5	1.000	0.375	1091
36	CMES3644X45L4H	44	MXT45	4.5	1.000	0.500	1120
36	CMES3644X50L3H	44	MXT50	5.0	1.000	0.375	1163
36	CMES3644X50L4H	44	MXT50	5.0	1.000	0.500	1192
36	CMES3644X60L3H	44	MXT60	6.0	1.125	0.375	1147
36	CMES3644X60L4H	44	MXT60	6.0	1.125	0.500	1176
36	CMES3651X35L3H	51	MXT35	3.5	0.875	0.375	1193
36	CMES3651X35L4H	51	MXT35	3.5	0.875	0.500	1226
36	CMES3651X40L3H	51	MXT40	4.0	1.000	0.375	1193
36	CMES3651X40L4H	51	MXT40	4.0	1.000	0.500	1226
36	CMES3651X45L3H	51	MXT45	4.5	1.000	0.375	1189
36	CMES3651X45L4H	51	MXT45	4.5	1.000	0.500	1222
36	CMES3651X50L3H	51	MXT50	5.0	1.000	0.375	1261
36	CMES3651X50L4H	51	MXT50	5.0	1.000	0.500	1294
36	CMES3651X60L3H	51	MXT60	6.0	1.125	0.375	1245
36	CMES3651X60L4H	51	MXT60	6.0	1.125	0.500	1278
36	CMES3657X35L3H	57	MXT35	3.5	0.875	0.375	1277
36	CMES3657X35L4H	57	MXT35	3.5	0.875	0.500	1314
36	CMES3657X40L3H	57	MXT40	4.0	1.000	0.375	1277
36	CMES3657X40L4H	57	MXT40	4.0	1.000	0.500	1314

Martin Elite Series Pulleys – Herringbone Lagging

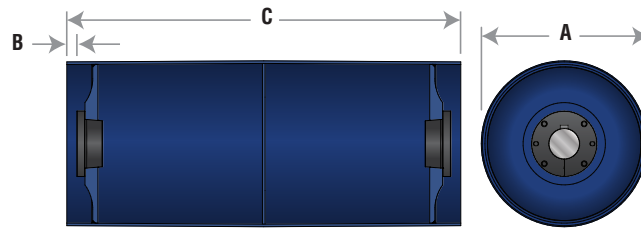
Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
36	CMES3657X45L3H	57	MXT45	4.5	1.000	0.375	1273
36	CMES3657X45L4H	57	MXT45	4.5	1.000	0.500	1310
36	CMES3657X50L3H	57	MXT50	5.0	1.000	0.375	1345
36	CMES3657X50L4H	57	MXT50	5.0	1.000	0.500	1382
36	CMES3657X60L3H	57	MXT60	6.0	1.125	0.375	1329
36	CMES3657X60L4H	57	MXT60	6.0	1.125	0.500	1366
36	CMES3663X35L3H	63	MXT35	3.5	0.875	0.375	1383
36	CMES3663X35L4H	63	MXT35	3.5	0.875	0.500	1424
36	CMES3663X40L3H	63	MXT40	4.0	1.000	0.375	1383
36	CMES3663X40L4H	63	MXT40	4.0	1.000	0.500	1424
36	CMES3663X45L3H	63	MXT45	4.5	1.000	0.375	1379
36	CMES3663X45L4H	63	MXT45	4.5	1.000	0.500	1420
36	CMES3663X50L3H	63	MXT50	5.0	1.000	0.375	1451
36	CMES3663X50L4H	63	MXT50	5.0	1.000	0.500	1492
36	CMES3663X60L3H	63	MXT60	6.0	1.125	0.375	1435
36	CMES3663X60L4H	63	MXT60	6.0	1.125	0.500	1476



Custom Shafting Available!

* General position for Bushing face - for position per application consult *Martin*.

Martin Elite Series Drum Pulleys Diamond Lagging



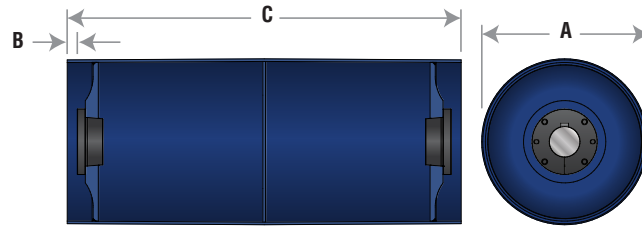
Martin Elite Series Pulleys – Diamond Lagging

Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
14	CMES1420X25L3D	20	MXT25	2.5	0.750	0.375	128
14	CMES1420X25L4D	20	MXT25	2.5	0.750	0.500	133
14	CMES1420X30L3D	20	MXT30	3.0	0.875	0.375	126
14	CMES1420X30L4D	20	MXT30	3.0	0.875	0.500	131
14	CMES1420X35L3D	20	MXT35	3.5	0.875	0.375	124
14	CMES1420X35L4D	20	MXT35	3.5	0.875	0.500	129
14	CMES1426X25L3D	26	MXT25	2.5	0.750	0.375	151
14	CMES1426X25L4D	26	MXT25	2.5	0.750	0.500	158
14	CMES1426X30L3D	26	MXT30	3.0	0.875	0.375	149
14	CMES1426X30L4D	26	MXT30	3.0	0.875	0.500	156
14	CMES1426X35L3D	26	MXT35	3.5	0.875	0.375	147
14	CMES1426X35L4D	26	MXT35	3.5	0.875	0.500	154
14	CMES1432X25L3D	32	MXT25	2.5	0.750	0.375	180
14	CMES1432X25L4D	32	MXT25	2.5	0.750	0.500	188
14	CMES1432X30L3D	32	MXT30	3.0	0.875	0.375	178
14	CMES1432X30L4D	32	MXT30	3.0	0.875	0.500	186
14	CMES1432X35L3D	32	MXT35	3.5	0.875	0.375	176
14	CMES1432X35L4D	32	MXT35	3.5	0.875	0.500	184
14	CMES1438X25L3D	38	MXT25	2.5	0.750	0.375	203
14	CMES1438X25L4D	38	MXT25	2.5	0.750	0.500	213
14	CMES1438X30L3D	38	MXT30	3.0	0.875	0.375	201
14	CMES1438X30L4D	38	MXT30	3.0	0.875	0.500	211
14	CMES1438X35L3D	38	MXT35	3.5	0.875	0.375	199
14	CMES1438X35L4D	38	MXT35	3.5	0.875	0.500	209
14	CMES1444X25L3D	44	MXT25	2.5	0.750	0.375	232
14	CMES1444X25L4D	44	MXT25	2.5	0.750	0.500	244
14	CMES1444X30L3D	44	MXT30	3.0	0.875	0.375	230
14	CMES1444X30L4D	44	MXT30	3.0	0.875	0.500	242
14	CMES1444X35L3D	44	MXT35	3.5	0.875	0.375	228
14	CMES1444X35L4D	44	MXT35	3.5	0.875	0.500	240
14	CMES1451X25L3D	51	MXT25	2.5	0.750	0.375	259
14	CMES1451X25L4D	51	MXT25	2.5	0.750	0.500	273
14	CMES1451X30L3D	51	MXT30	3.0	0.875	0.375	257
14	CMES1451X30L4D	51	MXT30	3.0	0.875	0.500	271
14	CMES1451X35L3D	51	MXT35	3.5	0.875	0.375	255
14	CMES1451X35L4D	51	MXT35	3.5	0.875	0.500	269
14	CMES1457X25L3D	57	MXT25	2.5	0.750	0.375	283
14	CMES1457X25L4D	57	MXT25	2.5	0.750	0.500	298
14	CMES1457X30L3D	57	MXT30	3.0	0.875	0.375	281
14	CMES1457X30L4D	57	MXT30	3.0	0.875	0.500	296
14	CMES1457X35L3D	57	MXT35	3.5	0.875	0.375	279
14	CMES1457X35L4D	57	MXT35	3.5	0.875	0.500	294
14	CMES1463X25L3D	63	MXT25	2.5	0.750	0.375	312
14	CMES1463X25L4D	63	MXT25	2.5	0.750	0.500	328
14	CMES1463X30L3D	63	MXT30	3.0	0.875	0.375	310
14	CMES1463X30L4D	63	MXT30	3.0	0.875	0.500	326
14	CMES1463X35L3D	63	MXT35	3.5	0.875	0.375	308
14	CMES1463X35L4D	63	MXT35	3.5	0.875	0.500	324

Martin Elite Series Pulleys – Diamond Lagging

Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
16	CMES1620X25L3D	20	MXT25	2.5	0.750	0.375	153
16	CMES1620X25L4D	20	MXT25	2.5	0.750	0.500	159
16	CMES1620X30L3D	20	MXT30	3.0	0.875	0.375	151
16	CMES1620X30L4D	20	MXT30	3.0	0.875	0.500	157
16	CMES1620X35L3D	20	MXT35	3.5	0.875	0.375	147
16	CMES1620X35L4D	20	MXT35	3.5	0.875	0.500	153
16	CMES1620X40L3D	20	MXT40	4.0	1.000	0.375	167
16	CMES1620X40L4D	20	MXT40	4.0	1.000	0.500	173
16	CMES1626X25L3D	26	MXT25	2.5	0.750	0.375	179
16	CMES1626X25L4D	26	MXT25	2.5	0.750	0.500	187
16	CMES1626X30L3D	26	MXT30	3.0	0.875	0.375	177
16	CMES1626X30L4D	26	MXT30	3.0	0.875	0.500	185
16	CMES1626X35L3D	26	MXT35	3.5	0.875	0.375	173
16	CMES1626X35L4D	26	MXT35	3.5	0.875	0.500	181
16	CMES1626X40L3D	26	MXT40	4.0	1.000	0.375	193
16	CMES1626X40L4D	26	MXT40	4.0	1.000	0.500	201
16	CMES1632X25L3D	32	MXT25	2.5	0.750	0.375	213
16	CMES1632X25L4D	32	MXT25	2.5	0.750	0.500	222
16	CMES1632X30L3D	32	MXT30	3.0	0.875	0.375	211
16	CMES1632X30L4D	32	MXT30	3.0	0.875	0.500	220
16	CMES1632X35L3D	32	MXT35	3.5	0.875	0.375	207
16	CMES1632X35L4D	32	MXT35	3.5	0.875	0.500	216
16	CMES1632X40L3D	32	MXT40	4.0	1.000	0.375	227
16	CMES1632X40L4D	32	MXT40	4.0	1.000	0.500	236
16	CMES1638X25L3D	38	MXT25	2.5	0.750	0.375	239
16	CMES1638X25L4D	38	MXT25	2.5	0.750	0.500	251
16	CMES1638X30L3D	38	MXT30	3.0	0.875	0.375	237
16	CMES1638X30L4D	38	MXT30	3.0	0.875	0.500	249
16	CMES1638X35L3D	38	MXT35	3.5	0.875	0.375	233
16	CMES1638X35L4D	38	MXT35	3.5	0.875	0.500	245
16	CMES1638X40L3D	38	MXT40	4.0	1.000	0.375	253
16	CMES1638X40L4D	38	MXT40	4.0	1.000	0.500	265
16	CMES1644X25L3D	44	MXT25	2.5	0.750	0.375	273
16	CMES1644X25L4D	44	MXT25	2.5	0.750	0.500	286
16	CMES1644X30L3D	44	MXT30	3.0	0.875	0.375	271
16	CMES1644X30L4D	44	MXT30	3.0	0.875	0.500	284
16	CMES1644X35L3D	44	MXT35	3.5	0.875	0.375	267
16	CMES1644X35L4D	44	MXT35	3.5	0.875	0.500	280
16	CMES1644X40L3D	44	MXT40	4.0	1.000	0.375	287
16	CMES1644X40L4D	44	MXT40	4.0	1.000	0.500	300
16	CMES1651X25L3D	51	MXT25	2.5	0.750	0.375	304
16	CMES1651X25L4D	51	MXT25	2.5	0.750	0.500	319
16	CMES1651X30L3D	51	MXT30	3.0	0.875	0.375	302
16	CMES1651X30L4D	51	MXT30	3.0	0.875	0.500	317
16	CMES1651X35L3D	51	MXT35	3.5	0.875	0.375	298
16	CMES1651X35L4D	51	MXT35	3.5	0.875	0.500	313
16	CMES1651X40L3D	51	MXT40	4.0	1.000	0.375	318
16	CMES1651X40L4D	51	MXT40	4.0	1.000	0.500	333

* General position for Bushing face - for position per application consult Martin.



Martin Elite Series Pulleys – Diamond Lagging

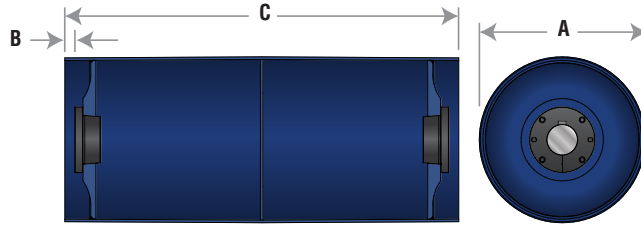
Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
16	CMES1657X25L3D	57	MXT25	2.5	0.750	0.375	331
16	CMES1657X25L4D	57	MXT25	2.5	0.750	0.500	348
16	CMES1657X30L3D	57	MXT30	3.0	0.875	0.375	329
16	CMES1657X30L4D	57	MXT30	3.0	0.875	0.500	346
16	CMES1657X35L3D	57	MXT35	3.5	0.875	0.375	325
16	CMES1657X35L4D	57	MXT35	3.5	0.875	0.500	342
16	CMES1657X40L3D	57	MXT40	4.0	1.000	0.375	345
16	CMES1657X40L4D	57	MXT40	4.0	1.000	0.500	362
16	CMES1663X25L3D	63	MXT25	2.5	0.750	0.375	364
16	CMES1663X25L4D	63	MXT25	2.5	0.750	0.500	383
16	CMES1663X30L3D	63	MXT30	3.0	0.875	0.375	362
16	CMES1663X30L4D	63	MXT30	3.0	0.875	0.500	381
16	CMES1663X35L3D	63	MXT35	3.5	0.875	0.375	358
16	CMES1663X35L4D	63	MXT35	3.5	0.875	0.500	377
16	CMES1663X40L3D	63	MXT40	4.0	1.000	0.375	378
16	CMES1663X40L4D	63	MXT40	4.0	1.000	0.500	397
18	CMES1820X25L3D	20	MXT25	2.5	0.750	0.375	176
18	CMES1820X25L4D	20	MXT25	2.5	0.750	0.500	182
18	CMES1820X30L3D	20	MXT30	3.0	0.875	0.375	174
18	CMES1820X30L4D	20	MXT30	3.0	0.875	0.500	180
18	CMES1820X35L3D	20	MXT35	3.5	0.875	0.375	174
18	CMES1820X35L4D	20	MXT35	3.5	0.875	0.500	180
18	CMES1820X40L3D	20	MXT40	4.0	1.000	0.375	196
18	CMES1820X40L4D	20	MXT40	4.0	1.000	0.500	202
18	CMES1820X45L3D	20	MXT45	4.5	1.000	0.375	204
18	CMES1820X45L4D	20	MXT45	4.5	1.000	0.500	210
18	CMES1826X25L3D	26	MXT25	2.5	0.750	0.375	206
18	CMES1826X25L4D	26	MXT25	2.5	0.750	0.500	214
18	CMES1826X30L3D	26	MXT30	3.0	0.875	0.375	204
18	CMES1826X30L4D	26	MXT30	3.0	0.875	0.500	212
18	CMES1826X35L3D	26	MXT35	3.5	0.875	0.375	204
18	CMES1826X35L4D	26	MXT35	3.5	0.875	0.500	212
18	CMES1826X40L3D	26	MXT40	4.0	1.000	0.375	226
18	CMES1826X40L4D	26	MXT40	4.0	1.000	0.500	234
18	CMES1826X45L3D	26	MXT45	4.5	1.000	0.375	234
18	CMES1826X45L4D	26	MXT45	4.5	1.000	0.500	242
18	CMES1832X25L3D	32	MXT25	2.5	0.750	0.375	243
18	CMES1832X25L4D	32	MXT25	2.5	0.750	0.500	253
18	CMES1832X30L3D	32	MXT30	3.0	0.875	0.375	241
18	CMES1832X30L4D	32	MXT30	3.0	0.875	0.500	251
18	CMES1832X35L3D	32	MXT35	3.5	0.875	0.375	241
18	CMES1832X35L4D	32	MXT35	3.5	0.875	0.500	251
18	CMES1832X40L3D	32	MXT40	4.0	1.000	0.375	263
18	CMES1832X40L4D	32	MXT40	4.0	1.000	0.500	273
18	CMES1832X45L3D	32	MXT45	4.5	1.000	0.375	271
18	CMES1832X45L4D	32	MXT45	4.5	1.000	0.500	281
18	CMES1838X25L3D	38	MXT25	2.5	0.750	0.375	273
18	CMES1838X25L4D	38	MXT25	2.5	0.750	0.500	285

Martin Elite Series Pulleys – Diamond Lagging

Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
18	CMES1838X30L3D	38	MXT30	3.0	0.875	0.375	271
18	CMES1838X30L4D	38	MXT30	3.0	0.875	0.500	283
18	CMES1838X35L3D	38	MXT35	3.5	0.875	0.375	271
18	CMES1838X35L4D	38	MXT35	3.5	0.875	0.500	283
18	CMES1838X40L3D	38	MXT40	4.0	1.000	0.375	293
18	CMES1838X40L4D	38	MXT40	4.0	1.000	0.500	305
18	CMES1838X45L3D	38	MXT45	4.5	1.000	0.375	301
18	CMES1838X45L4D	38	MXT45	4.5	1.000	0.500	313
18	CMES1844X25L3D	44	MXT25	2.5	0.750	0.375	310
18	CMES1844X25L4D	44	MXT25	2.5	0.750	0.500	324
18	CMES1844X30L3D	44	MXT30	3.0	0.875	0.375	308
18	CMES1844X30L4D	44	MXT30	3.0	0.875	0.500	322
18	CMES1844X35L3D	44	MXT35	3.5	0.875	0.375	308
18	CMES1844X35L4D	44	MXT35	3.5	0.875	0.500	322
18	CMES1844X40L3D	44	MXT40	4.0	1.000	0.375	330
18	CMES1844X40L4D	44	MXT40	4.0	1.000	0.500	344
18	CMES1844X45L3D	44	MXT45	4.5	1.000	0.375	338
18	CMES1844X45L4D	44	MXT45	4.5	1.000	0.500	352
18	CMES1851X25L3D	51	MXT25	2.5	0.750	0.375	344
18	CMES1851X25L4D	51	MXT25	2.5	0.750	0.500	362
18	CMES1851X30L3D	51	MXT30	3.0	0.875	0.375	342
18	CMES1851X30L4D	51	MXT30	3.0	0.875	0.500	360
18	CMES1851X35L3D	51	MXT35	3.5	0.875	0.375	342
18	CMES1851X35L4D	51	MXT35	3.5	0.875	0.500	360
18	CMES1851X40L3D	51	MXT40	4.0	1.000	0.375	364
18	CMES1851X40L4D	51	MXT40	4.0	1.000	0.500	382
18	CMES1851X45L3D	51	MXT45	4.5	1.000	0.375	372
18	CMES1851X45L4D	51	MXT45	4.5	1.000	0.500	390
18	CMES1857X25L3D	57	MXT25	2.5	0.750	0.375	374
18	CMES1857X25L4D	57	MXT25	2.5	0.750	0.500	393
18	CMES1857X30L3D	57	MXT30	3.0	0.875	0.375	372
18	CMES1857X30L4D	57	MXT30	3.0	0.875	0.500	391
18	CMES1857X35L3D	57	MXT35	3.5	0.875	0.375	372
18	CMES1857X35L4D	57	MXT35	3.5	0.875	0.500	391
18	CMES1857X40L3D	57	MXT40	4.0	1.000	0.375	394
18	CMES1857X40L4D	57	MXT40	4.0	1.000	0.500	413
18	CMES1857X45L3D	57	MXT45	4.5	1.000	0.375	402
18	CMES1857X45L4D	57	MXT45	4.5	1.000	0.500	421
18	CMES1863X25L3D	63	MXT25	2.5	0.750	0.375	411
18	CMES1863X25L4D	63	MXT25	2.5	0.750	0.500	432
18	CMES1863X30L3D	63	MXT30	3.0	0.875	0.375	409
18	CMES1863X30L4D	63	MXT30	3.0	0.875	0.500	430
18	CMES1863X35L3D	63	MXT35	3.5	0.875	0.375	409
18	CMES1863X35L4D	63	MXT35	3.5	0.875	0.500	430
18	CMES1863X40L3D	63	MXT40	4.0	1.000	0.375	431
18	CMES1863X40L4D	63	MXT40	4.0	1.000	0.500	452
18	CMES1863X45L3D	63	MXT45	4.5	1.000	0.375	439
18	CMES1863X45L4D	63	MXT45	4.5	1.000	0.500	460

* General position for Bushing face - for position per application consult *Martin*.

Martin Elite Series Drum Pulleys Diamond Lagging



Martin Elite Series Pulleys – Diamond Lagging

Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
20	CMES2020X25L3D	20	MXT25	2.5	0.750	0.375	205
20	CMES2020X25L4D	20	MXT25	2.5	0.750	0.500	212
20	CMES2020X30L3D	20	MXT30	3.0	0.875	0.375	203
20	CMES2020X30L4D	20	MXT30	3.0	0.875	0.500	210
20	CMES2020X35L3D	20	MXT35	3.5	0.875	0.375	195
20	CMES2020X35L4D	20	MXT35	3.5	0.875	0.500	202
20	CMES2020X40L3D	20	MXT40	4.0	1.000	0.375	217
20	CMES2020X40L4D	20	MXT40	4.0	1.000	0.500	224
20	CMES2020X45L3D	20	MXT45	4.5	1.000	0.375	235
20	CMES2020X45L4D	20	MXT45	4.5	1.000	0.500	242
20	CMES2020X50L3D	20	MXT50	5.0	1.000	0.375	317
20	CMES2020X50L4D	20	MXT50	5.0	1.000	0.500	325
20	CMES2026X25L3D	26	MXT25	2.5	0.750	0.375	238
20	CMES2026X25L4D	26	MXT25	2.5	0.750	0.500	247
20	CMES2026X30L3D	26	MXT30	3.0	0.875	0.375	236
20	CMES2026X30L4D	26	MXT30	3.0	0.875	0.500	245
20	CMES2026X35L3D	26	MXT35	3.5	0.875	0.375	228
20	CMES2026X35L4D	26	MXT35	3.5	0.875	0.500	237
20	CMES2026X40L3D	26	MXT40	4.0	1.000	0.375	250
20	CMES2026X40L4D	26	MXT40	4.0	1.000	0.500	259
20	CMES2026X45L3D	26	MXT45	4.5	1.000	0.375	268
20	CMES2026X45L4D	26	MXT45	4.5	1.000	0.500	277
20	CMES2026X50L3D	26	MXT50	5.0	1.000	0.375	364
20	CMES2026X50L4D	26	MXT50	5.0	1.000	0.500	373
20	CMES2032X25L3D	32	MXT25	2.5	0.750	0.375	279
20	CMES2032X25L4D	32	MXT25	2.5	0.750	0.500	291
20	CMES2032X30L3D	32	MXT30	3.0	0.875	0.375	277
20	CMES2032X30L4D	32	MXT30	3.0	0.875	0.500	289
20	CMES2032X35L3D	32	MXT35	3.5	0.875	0.375	269
20	CMES2032X35L4D	32	MXT35	3.5	0.875	0.500	281
20	CMES2032X40L3D	32	MXT40	4.0	1.000	0.375	291
20	CMES2032X40L4D	32	MXT40	4.0	1.000	0.500	303
20	CMES2032X45L3D	32	MXT45	4.5	1.000	0.375	309
20	CMES2032X45L4D	32	MXT45	4.5	1.000	0.500	321
20	CMES2032X50L3D	32	MXT50	5.0	1.000	0.375	418
20	CMES2032X50L4D	32	MXT50	5.0	1.000	0.500	430
20	CMES2038X25L3D	38	MXT25	2.5	0.750	0.375	312
20	CMES2038X25L4D	38	MXT25	2.5	0.750	0.500	326
20	CMES2038X30L3D	38	MXT30	3.0	0.875	0.375	310
20	CMES2038X30L4D	38	MXT30	3.0	0.875	0.500	324
20	CMES2038X35L3D	38	MXT35	3.5	0.875	0.375	302
20	CMES2038X35L4D	38	MXT35	3.5	0.875	0.500	316
20	CMES2038X40L3D	38	MXT40	4.0	1.000	0.375	324
20	CMES2038X40L4D	38	MXT40	4.0	1.000	0.500	338
20	CMES2038X45L3D	38	MXT45	4.5	1.000	0.375	342
20	CMES2038X45L4D	38	MXT45	4.5	1.000	0.500	356
20	CMES2038X50L3D	38	MXT50	5.0	1.000	0.375	465
20	CMES2038X50L4D	38	MXT50	5.0	1.000	0.500	479

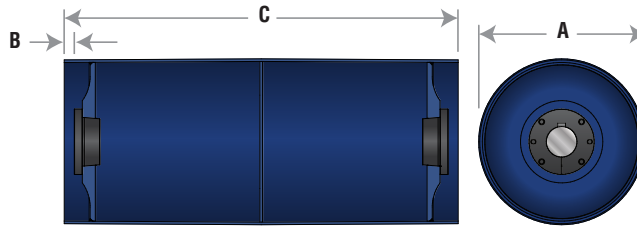
Martin Elite Series Pulleys – Diamond Lagging

Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
20	CMES2044X25L3D	44	MXT25	2.5	0.750	0.375	354
20	CMES2044X25L4D	44	MXT25	2.5	0.750	0.500	370
20	CMES2044X30L3D	44	MXT30	3.0	0.875	0.375	352
20	CMES2044X30L4D	44	MXT30	3.0	0.875	0.500	368
20	CMES2044X35L3D	44	MXT35	3.5	0.875	0.375	344
20	CMES2044X35L4D	44	MXT35	3.5	0.875	0.500	360
20	CMES2044X40L3D	44	MXT40	4.0	1.000	0.375	366
20	CMES2044X40L4D	44	MXT40	4.0	1.000	0.500	382
20	CMES2044X45L3D	44	MXT45	4.5	1.000	0.375	384
20	CMES2044X45L4D	44	MXT45	4.5	1.000	0.500	400
20	CMES2044X50L3D	44	MXT50	5.0	1.000	0.375	520
20	CMES2044X50L4D	44	MXT50	5.0	1.000	0.500	536
20	CMES2051X25L3D	51	MXT25	2.5	0.750	0.375	392
20	CMES2051X25L4D	51	MXT25	2.5	0.750	0.500	411
20	CMES2051X30L3D	51	MXT30	3.0	0.875	0.375	390
20	CMES2051X30L4D	51	MXT30	3.0	0.875	0.500	409
20	CMES2051X35L3D	51	MXT35	3.5	0.875	0.375	382
20	CMES2051X35L4D	51	MXT35	3.5	0.875	0.500	401
20	CMES2051X40L3D	51	MXT40	4.0	1.000	0.375	404
20	CMES2051X40L4D	51	MXT40	4.0	1.000	0.500	423
20	CMES2051X45L3D	51	MXT45	4.5	1.000	0.375	422
20	CMES2051X45L4D	51	MXT45	4.5	1.000	0.500	441
20	CMES2051X50L3D	51	MXT50	5.0	1.000	0.375	574
20	CMES2051X50L4D	51	MXT50	5.0	1.000	0.500	593
20	CMES2057X25L3D	57	MXT25	2.5	0.750	0.375	426
20	CMES2057X25L4D	57	MXT25	2.5	0.750	0.500	447
20	CMES2057X30L3D	57	MXT30	3.0	0.875	0.375	424
20	CMES2057X30L4D	57	MXT30	3.0	0.875	0.500	445
20	CMES2057X35L3D	57	MXT35	3.5	0.875	0.375	416
20	CMES2057X35L4D	57	MXT35	3.5	0.875	0.500	437
20	CMES2057X40L3D	57	MXT40	4.0	1.000	0.375	438
20	CMES2057X40L4D	57	MXT40	4.0	1.000	0.500	459
20	CMES2057X45L3D	57	MXT45	4.5	1.000	0.375	456
20	CMES2057X45L4D	57	MXT45	4.5	1.000	0.500	477
20	CMES2057X50L3D	57	MXT50	5.0	1.000	0.375	621
20	CMES2057X50L4D	57	MXT50	5.0	1.000	0.500	642
20	CMES2063X25L3D	63	MXT25	2.5	0.750	0.375	467
20	CMES2063X25L4D	63	MXT25	2.5	0.750	0.500	490
20	CMES2063X30L3D	63	MXT30	3.0	0.875	0.375	465
20	CMES2063X30L4D	63	MXT30	3.0	0.875	0.500	488
20	CMES2063X35L3D	63	MXT35	3.5	0.875	0.375	457
20	CMES2063X35L4D	63	MXT35	3.5	0.875	0.500	480
20	CMES2063X40L3D	63	MXT40	4.0	1.000	0.375	479
20	CMES2063X40L4D	63	MXT40	4.0	1.000	0.500	502
20	CMES2063X45L3D	63	MXT45	4.5	1.000	0.375	497
20	CMES2063X45L4D	63	MXT45	4.5	1.000	0.500	520
20	CMES2063X50L3D	63	MXT50	5.0	1.000	0.375	675
20	CMES2063X50L4D	63	MXT50	5.0	1.000	0.500	698

* General position for Bushing face - for position per application consult Martin.



Martin Elite Series Drum Pulleys Diamond Lagging



Martin Elite Series Pulleys – Diamond Lagging

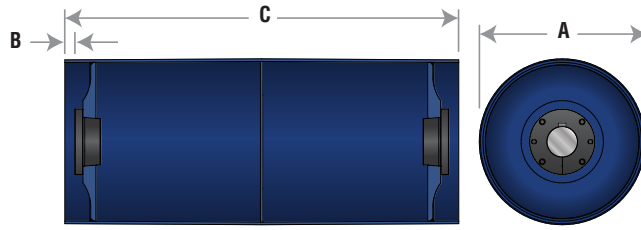
Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
24	CMES2420X30L3D	20	MXT30	3.0	0.875	0.375	271
24	CMES2420X30L4D	20	MXT30	3.0	0.875	0.500	280
24	CMES2420X35L3D	20	MXT35	3.5	0.875	0.375	271
24	CMES2420X35L4D	20	MXT35	3.5	0.875	0.500	280
24	CMES2420X40L3D	20	MXT40	4.0	1.000	0.375	281
24	CMES2420X40L4D	20	MXT40	4.0	1.000	0.500	290
24	CMES2420X45L3D	20	MXT45	4.5	1.000	0.375	311
24	CMES2420X45L4D	20	MXT45	4.5	1.000	0.500	320
24	CMES2420X50L3D	20	MXT50	5.0	1.000	0.375	406
24	CMES2420X50L4D	20	MXT50	5.0	1.000	0.500	415
24	CMES2420X60L3D	20	MXT60	6.0	1.125	0.375	390
24	CMES2420X60L4D	20	MXT60	6.0	1.125	0.500	399
24	CMES2426X30L3D	26	MXT30	3.0	0.875	0.375	311
24	CMES2426X30L4D	26	MXT30	3.0	0.875	0.500	322
24	CMES2426X35L3D	26	MXT35	3.5	0.875	0.375	311
24	CMES2426X35L4D	26	MXT35	3.5	0.875	0.500	322
24	CMES2426X40L3D	26	MXT40	4.0	1.000	0.375	321
24	CMES2426X40L4D	26	MXT40	4.0	1.000	0.500	332
24	CMES2426X45L3D	26	MXT45	4.5	1.000	0.375	351
24	CMES2426X45L4D	26	MXT45	4.5	1.000	0.500	362
24	CMES2426X50L3D	26	MXT50	5.0	1.000	0.375	462
24	CMES2426X50L4D	26	MXT50	5.0	1.000	0.500	473
24	CMES2426X60L3D	26	MXT60	6.0	1.125	0.375	446
24	CMES2426X60L4D	26	MXT60	6.0	1.125	0.500	457
24	CMES2432X30L3D	32	MXT30	3.0	0.875	0.375	360
24	CMES2432X30L4D	32	MXT30	3.0	0.875	0.500	374
24	CMES2432X35L3D	32	MXT35	3.5	0.875	0.375	360
24	CMES2432X35L4D	32	MXT35	3.5	0.875	0.500	374
24	CMES2432X40L3D	32	MXT40	4.0	1.000	0.375	370
24	CMES2432X40L4D	32	MXT40	4.0	1.000	0.500	384
24	CMES2432X45L3D	32	MXT45	4.5	1.000	0.375	400
24	CMES2432X45L4D	32	MXT45	4.5	1.000	0.500	414
24	CMES2432X50L3D	32	MXT50	5.0	1.000	0.375	528
24	CMES2432X50L4D	32	MXT50	5.0	1.000	0.500	542
24	CMES2432X60L3D	32	MXT60	6.0	1.125	0.375	512
24	CMES2432X60L4D	32	MXT60	6.0	1.125	0.500	526
24	CMES2438X30L3D	38	MXT30	3.0	0.875	0.375	400
24	CMES2438X30L4D	38	MXT30	3.0	0.875	0.500	417
24	CMES2438X35L3D	38	MXT35	3.5	0.875	0.375	400
24	CMES2438X35L4D	38	MXT35	3.5	0.875	0.500	417
24	CMES2438X40L3D	38	MXT40	4.0	1.000	0.375	410
24	CMES2438X40L4D	38	MXT40	4.0	1.000	0.500	427
24	CMES2438X45L3D	38	MXT45	4.5	1.000	0.375	440
24	CMES2438X45L4D	38	MXT45	4.5	1.000	0.500	457
24	CMES2438X50L3D	38	MXT50	5.0	1.000	0.375	584
24	CMES2438X50L4D	38	MXT50	5.0	1.000	0.500	600
24	CMES2438X60L3D	38	MXT60	6.0	1.125	0.375	568
24	CMES2438X60L4D	38	MXT60	6.0	1.125	0.500	584

Martin Elite Series Pulleys – Diamond Lagging

Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
24	CMES2444X30L3D	44	MXT30	3.0	0.875	0.375	450
24	CMES2444X30L4D	44	MXT30	3.0	0.875	0.500	469
24	CMES2444X35L3D	44	MXT35	3.5	0.875	0.375	450
24	CMES2444X35L4D	44	MXT35	3.5	0.875	0.500	469
24	CMES2444X40L3D	44	MXT40	4.0	1.000	0.375	460
24	CMES2444X40L4D	44	MXT40	4.0	1.000	0.500	479
24	CMES2444X45L3D	44	MXT45	4.5	1.000	0.375	490
24	CMES2444X45L4D	44	MXT45	4.5	1.000	0.500	509
24	CMES2444X50L3D	44	MXT50	5.0	1.000	0.375	649
24	CMES2444X50L4D	44	MXT50	5.0	1.000	0.500	669
24	CMES2444X60L3D	44	MXT60	6.0	1.125	0.375	633
24	CMES2444X60L4D	44	MXT60	6.0	1.125	0.500	653
24	CMES2451X30L3D	51	MXT30	3.0	0.875	0.375	496
24	CMES2451X30L4D	51	MXT30	3.0	0.875	0.500	519
24	CMES2451X35L3D	51	MXT35	3.5	0.875	0.375	496
24	CMES2451X35L4D	51	MXT35	3.5	0.875	0.500	519
24	CMES2451X40L3D	51	MXT40	4.0	1.000	0.375	506
24	CMES2451X40L4D	51	MXT40	4.0	1.000	0.500	529
24	CMES2451X45L3D	51	MXT45	4.5	1.000	0.375	536
24	CMES2451X45L4D	51	MXT45	4.5	1.000	0.500	559
24	CMES2451X50L3D	51	MXT50	5.0	1.000	0.375	715
24	CMES2451X50L4D	51	MXT50	5.0	1.000	0.500	737
24	CMES2451X60L3D	51	MXT60	6.0	1.125	0.375	699
24	CMES2451X60L4D	51	MXT60	6.0	1.125	0.500	721
24	CMES2457X30L3D	57	MXT30	3.0	0.875	0.375	536
24	CMES2457X30L4D	57	MXT30	3.0	0.875	0.500	561
24	CMES2457X35L3D	57	MXT35	3.5	0.875	0.375	536
24	CMES2457X35L4D	57	MXT35	3.5	0.875	0.500	561
24	CMES2457X40L3D	57	MXT40	4.0	1.000	0.375	546
24	CMES2457X40L4D	57	MXT40	4.0	1.000	0.500	571
24	CMES2457X45L3D	57	MXT45	4.5	1.000	0.375	576
24	CMES2457X45L4D	57	MXT45	4.5	1.000	0.500	601
24	CMES2457X50L3D	57	MXT50	5.0	1.000	0.375	770
24	CMES2457X50L4D	57	MXT50	5.0	1.000	0.500	796
24	CMES2457X60L3D	57	MXT60	6.0	1.125	0.375	754
24	CMES2457X60L4D	57	MXT60	6.0	1.125	0.500	780
24	CMES2463X30L3D	63	MXT30	3.0	0.875	0.375	586
24	CMES2463X30L4D	63	MXT30	3.0	0.875	0.500	614
24	CMES2463X35L3D	63	MXT35	3.5	0.875	0.375	586
24	CMES2463X35L4D	63	MXT35	3.5	0.875	0.500	614
24	CMES2463X40L3D	63	MXT40	4.0	1.000	0.375	596
24	CMES2463X40L4D	63	MXT40	4.0	1.000	0.500	624
24	CMES2463X45L3D	63	MXT45	4.5	1.000	0.375	626
24	CMES2463X45L4D	63	MXT45	4.5	1.000	0.500	654
24	CMES2463X50L3D	63	MXT50	5.0	1.000	0.375	836
24	CMES2463X50L4D	63	MXT50	5.0	1.000	0.500	864
24	CMES2463X60L3D	63	MXT60	6.0	1.125	0.375	820
24	CMES2463X60L4D	63	MXT60	6.0	1.125	0.500	848

* General position for Bushing face - for position per application consult *Martin*.

Martin Elite Series Drum Pulleys Diamond Lagging



Martin Elite Series Pulleys – Diamond Lagging

Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
30	CMES3020X35L3D	20	MXT35	3.5	0.875	0.375	467
30	CMES3020X35L4D	20	MXT35	3.5	0.875	0.500	478
30	CMES3020X40L3D	20	MXT40	4.0	1.000	0.375	469
30	CMES3020X40L4D	20	MXT40	4.0	1.000	0.500	480
30	CMES3020X45L3D	20	MXT45	4.5	1.000	0.375	515
30	CMES3020X45L4D	20	MXT45	4.5	1.000	0.500	526
30	CMES3020X50L3D	20	MXT50	5.0	1.000	0.375	573
30	CMES3020X50L4D	20	MXT50	5.0	1.000	0.500	584
30	CMES3020X60L3D	20	MXT60	6.0	1.125	0.375	557
30	CMES3020X60L4D	20	MXT60	6.0	1.125	0.500	568
30	CMES3026X35L3D	26	MXT35	3.5	0.875	0.375	536
30	CMES3026X35L4D	26	MXT35	3.5	0.875	0.500	551
30	CMES3026X40L3D	26	MXT40	4.0	1.000	0.375	538
30	CMES3026X40L4D	26	MXT40	4.0	1.000	0.500	553
30	CMES3026X45L3D	26	MXT45	4.5	1.000	0.375	584
30	CMES3026X45L4D	26	MXT45	4.5	1.000	0.500	599
30	CMES3026X50L3D	26	MXT50	5.0	1.000	0.375	642
30	CMES3026X50L4D	26	MXT50	5.0	1.000	0.500	657
30	CMES3026X60L3D	26	MXT60	6.0	1.125	0.375	626
30	CMES3026X60L4D	26	MXT60	6.0	1.125	0.500	641
30	CMES3032X35L3D	32	MXT35	3.5	0.875	0.375	624
30	CMES3032X35L4D	32	MXT35	3.5	0.875	0.500	641
30	CMES3032X40L3D	32	MXT40	4.0	1.000	0.375	626
30	CMES3032X40L4D	32	MXT40	4.0	1.000	0.500	643
30	CMES3032X45L3D	32	MXT45	4.5	1.000	0.375	672
30	CMES3032X45L4D	32	MXT45	4.5	1.000	0.500	689
30	CMES3032X50L3D	32	MXT50	5.0	1.000	0.375	730
30	CMES3032X50L4D	32	MXT50	5.0	1.000	0.500	747
30	CMES3032X60L3D	32	MXT60	6.0	1.125	0.375	714
30	CMES3032X60L4D	32	MXT60	6.0	1.125	0.500	731
30	CMES3038X35L3D	38	MXT35	3.5	0.875	0.375	693
30	CMES3038X35L4D	38	MXT35	3.5	0.875	0.500	714
30	CMES3038X40L3D	38	MXT40	4.0	1.000	0.375	695
30	CMES3038X40L4D	38	MXT40	4.0	1.000	0.500	716
30	CMES3038X45L3D	38	MXT45	4.5	1.000	0.375	741
30	CMES3038X45L4D	38	MXT45	4.5	1.000	0.500	762
30	CMES3038X50L3D	38	MXT50	5.0	1.000	0.375	799
30	CMES3038X50L4D	38	MXT50	5.0	1.000	0.500	820
30	CMES3038X60L3D	38	MXT60	6.0	1.125	0.375	783
30	CMES3038X60L4D	38	MXT60	6.0	1.125	0.500	804
30	CMES3044X35L3D	44	MXT35	3.5	0.875	0.375	780
30	CMES3044X35L4D	44	MXT35	3.5	0.875	0.500	804
30	CMES3044X40L3D	44	MXT40	4.0	1.000	0.375	782
30	CMES3044X40L4D	44	MXT40	4.0	1.000	0.500	806
30	CMES3044X45L3D	44	MXT45	4.5	1.000	0.375	828
30	CMES3044X45L4D	44	MXT45	4.5	1.000	0.500	852
30	CMES3044X50L3D	44	MXT50	5.0	1.000	0.375	886
30	CMES3044X50L4D	44	MXT50	5.0	1.000	0.500	910

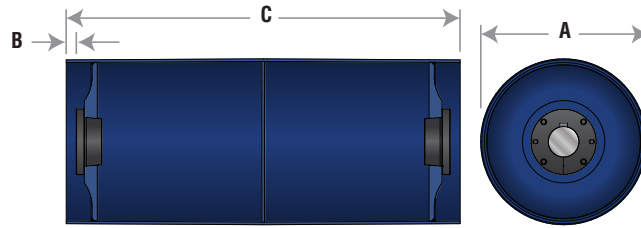
Martin Elite Series Pulleys – Diamond Lagging

Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
30	CMES3044X60L3D	44	MXT60	6.0	1.125	0.375	870
30	CMES3044X60L4D	44	MXT60	6.0	1.125	0.500	894
30	CMES3051X35L3D	51	MXT35	3.5	0.875	0.375	862
30	CMES3051X35L4D	51	MXT35	3.5	0.875	0.500	890
30	CMES3051X40L3D	51	MXT40	4.0	1.000	0.375	864
30	CMES3051X40L4D	51	MXT40	4.0	1.000	0.500	892
30	CMES3051X45L3D	51	MXT45	4.5	1.000	0.375	910
30	CMES3051X45L4D	51	MXT45	4.5	1.000	0.500	938
30	CMES3051X50L3D	51	MXT50	5.0	1.000	0.375	968
30	CMES3051X50L4D	51	MXT50	5.0	1.000	0.500	996
30	CMES3051X60L3D	51	MXT60	6.0	1.125	0.375	952
30	CMES3051X60L4D	51	MXT60	6.0	1.125	0.500	980
30	CMES3057X35L3D	57	MXT35	3.5	0.875	0.375	932
30	CMES3057X35L4D	57	MXT35	3.5	0.875	0.500	963
30	CMES3057X40L3D	57	MXT40	4.0	1.000	0.375	934
30	CMES3057X40L4D	57	MXT40	4.0	1.000	0.500	965
30	CMES3057X45L3D	57	MXT45	4.5	1.000	0.375	980
30	CMES3057X45L4D	57	MXT45	4.5	1.000	0.500	1011
30	CMES3057X50L3D	57	MXT50	5.0	1.000	0.375	1038
30	CMES3057X50L4D	57	MXT50	5.0	1.000	0.500	1069
30	CMES3057X60L3D	57	MXT60	6.0	1.125	0.375	1022
30	CMES3057X60L4D	57	MXT60	6.0	1.125	0.500	1053
30	CMES3063X35L3D	63	MXT35	3.5	0.875	0.375	1019
30	CMES3063X35L4D	63	MXT35	3.5	0.875	0.500	1053
30	CMES3063X40L3D	63	MXT40	4.0	1.000	0.375	1021
30	CMES3063X40L4D	63	MXT40	4.0	1.000	0.500	1055
30	CMES3063X45L3D	63	MXT45	4.5	1.000	0.375	1067
30	CMES3063X45L4D	63	MXT45	4.5	1.000	0.500	1101
30	CMES3063X50L3D	63	MXT50	5.0	1.000	0.375	1125
30	CMES3063X50L4D	63	MXT50	5.0	1.000	0.500	1159
30	CMES3063X60L3D	63	MXT60	6.0	1.125	0.375	1109
30	CMES3063X60L4D	63	MXT60	6.0	1.125	0.500	1143
36	CMES3620X35L3D	20	MXT35	3.5	0.875	0.375	715
36	CMES3620X35L4D	20	MXT35	3.5	0.875	0.500	728
36	CMES3620X40L3D	20	MXT40	4.0	1.000	0.375	715
36	CMES3620X40L4D	20	MXT40	4.0	1.000	0.500	728
36	CMES3620X45L3D	20	MXT45	4.5	1.000	0.375	711
36	CMES3620X45L4D	20	MXT45	4.5	1.000	0.500	724
36	CMES3620X50L3D	20	MXT50	5.0	1.000	0.375	783
36	CMES3620X50L4D	20	MXT50	5.0	1.000	0.500	796
36	CMES3620X60L3D	20	MXT60	6.0	1.125	0.375	767
36	CMES3620X60L4D	20	MXT60	6.0	1.125	0.500	780
36	CMES3626X35L3D	26	MXT35	3.5	0.875	0.375	799
36	CMES3626X35L4D	26	MXT35	3.5	0.875	0.500	816
36	CMES3626X40L3D	26	MXT40	4.0	1.000	0.375	799
36	CMES3626X40L4D	26	MXT40	4.0	1.000	0.500	816
36	CMES3626X45L3D	26	MXT45	4.5	1.000	0.375	795
36	CMES3626X45L4D	26	MXT45	4.5	1.000	0.500	812

* General position for Bushing face - for position per application consult Martin.



Martin Elite Series Drum Pulleys Diamond Lagging



Martin Elite Series Pulleys – Diamond Lagging

Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
36	CMES3626X50L3D	26	MXT50	5.0	1.000	0.375	867
36	CMES3626X50L4D	26	MXT50	5.0	1.000	0.500	884
36	CMES3626X60L3D	26	MXT60	6.0	1.125	0.375	851
36	CMES3626X60L4D	26	MXT60	6.0	1.125	0.500	868
36	CMES3632X35L3D	32	MXT35	3.5	0.875	0.375	905
36	CMES3632X35L4D	32	MXT35	3.5	0.875	0.500	926
36	CMES3632X40L3D	32	MXT40	4.0	1.000	0.375	905
36	CMES3632X40L4D	32	MXT40	4.0	1.000	0.500	926
36	CMES3632X45L3D	32	MXT45	4.5	1.000	0.375	901
36	CMES3632X45L4D	32	MXT45	4.5	1.000	0.500	922
36	CMES3632X50L3D	32	MXT50	5.0	1.000	0.375	973
36	CMES3632X50L4D	32	MXT50	5.0	1.000	0.500	994
36	CMES3632X60L3D	32	MXT60	6.0	1.125	0.375	957
36	CMES3632X60L4D	32	MXT60	6.0	1.125	0.500	978
36	CMES3638X35L3D	38	MXT35	3.5	0.875	0.375	989
36	CMES3638X35L4D	38	MXT35	3.5	0.875	0.500	1014
36	CMES3638X40L3D	38	MXT40	4.0	1.000	0.375	989
36	CMES3638X40L4D	38	MXT40	4.0	1.000	0.500	1014
36	CMES3638X45L3D	38	MXT45	4.5	1.000	0.375	985
36	CMES3638X45L4D	38	MXT45	4.5	1.000	0.500	1010
36	CMES3638X50L3D	38	MXT50	5.0	1.000	0.375	1057
36	CMES3638X50L4D	38	MXT50	5.0	1.000	0.500	1082
36	CMES3638X60L3D	38	MXT60	6.0	1.125	0.375	1041
36	CMES3638X60L4D	38	MXT60	6.0	1.125	0.500	1066
36	CMES3644X35L3D	44	MXT35	3.5	0.875	0.375	1095
36	CMES3644X35L4D	44	MXT35	3.5	0.875	0.500	1124
36	CMES3644X40L3D	44	MXT40	4.0	1.000	0.375	1095
36	CMES3644X40L4D	44	MXT40	4.0	1.000	0.500	1124
36	CMES3644X45L3D	44	MXT45	4.5	1.000	0.375	1091
36	CMES3644X45L4D	44	MXT45	4.5	1.000	0.500	1120
36	CMES3644X50L3D	44	MXT50	5.0	1.000	0.375	1163
36	CMES3644X50L4D	44	MXT50	5.0	1.000	0.500	1192
36	CMES3644X60L3D	44	MXT60	6.0	1.125	0.375	1147
36	CMES3644X60L4D	44	MXT60	6.0	1.125	0.500	1176
36	CMES3651X35L3D	51	MXT35	3.5	0.875	0.375	1193
36	CMES3651X35L4D	51	MXT35	3.5	0.875	0.500	1226
36	CMES3651X40L3D	51	MXT40	4.0	1.000	0.375	1193
36	CMES3651X40L4D	51	MXT40	4.0	1.000	0.500	1226
36	CMES3651X45L3D	51	MXT45	4.5	1.000	0.375	1189
36	CMES3651X45L4D	51	MXT45	4.5	1.000	0.500	1222
36	CMES3651X50L3D	51	MXT50	5.0	1.000	0.375	1261
36	CMES3651X50L4D	51	MXT50	5.0	1.000	0.500	1294
36	CMES3651X60L3D	51	MXT60	6.0	1.125	0.375	1245
36	CMES3651X60L4D	51	MXT60	6.0	1.125	0.500	1278
36	CMES3657X35L3D	57	MXT35	3.5	0.875	0.375	1277
36	CMES3657X35L4D	57	MXT35	3.5	0.875	0.500	1314
36	CMES3657X40L3D	57	MXT40	4.0	1.000	0.375	1277
36	CMES3657X40L4D	57	MXT40	4.0	1.000	0.500	1314

Martin Elite Series Pulleys – Diamond Lagging

Diam. A	Part Number	Face C	Bushing	Max Bore	Set-back B*	Lagging Thickness	Approx. Weight (lb)
36	CMES3657X45L3D	57	MXT45	4.5	1.000	0.375	1273
36	CMES3657X45L4D	57	MXT45	4.5	1.000	0.500	1310
36	CMES3657X50L3D	57	MXT50	5.0	1.000	0.375	1345
36	CMES3657X50L4D	57	MXT50	5.0	1.000	0.500	1382
36	CMES3657X60L3D	57	MXT60	6.0	1.125	0.375	1329
36	CMES3657X60L4D	57	MXT60	6.0	1.125	0.500	1366
36	CMES3663X35L3D	63	MXT35	3.5	0.875	0.375	1383
36	CMES3663X35L4D	63	MXT35	3.5	0.875	0.500	1424
36	CMES3663X40L3D	63	MXT40	4.0	1.000	0.375	1383
36	CMES3663X40L4D	63	MXT40	4.0	1.000	0.500	1424
36	CMES3663X45L3D	63	MXT45	4.5	1.000	0.375	1379
36	CMES3663X45L4D	63	MXT45	4.5	1.000	0.500	1420
36	CMES3663X50L3D	63	MXT50	5.0	1.000	0.375	1451
36	CMES3663X50L4D	63	MXT50	5.0	1.000	0.500	1492
36	CMES3663X60L3D	63	MXT60	6.0	1.125	0.375	1435
36	CMES3663X60L4D	63	MXT60	6.0	1.125	0.500	1476



Custom Shafting Available!

* General position for Bushing face - for position per application consult *Martin*.

Drum Pulleys — Machined



Machined Drum Pulleys — Crowned

Martin's Machined Drum Pulleys are manufactured from thick wall pipe or tubing, then machined on a lathe to form the crown and ensure minimum runout in operation.

Our Machined Drum Pulleys are the heaviest in the business, featuring a .375" minimum end disc, or .75" thick integral hub and end discs, minimum .25" rims and .25" center plates. Because each Pulley has been machined, the Pulley is the thickest in the center where the load is the highest.

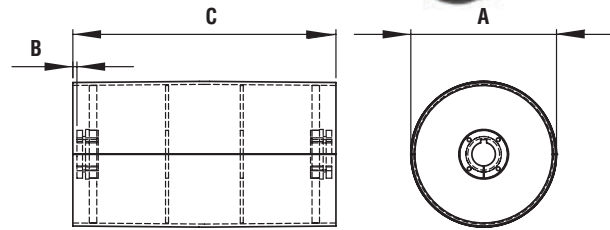
Our Machined Drum Pulleys run more concentric than Pulleys made by the "expansion" method. This ensures better belt tracking and less vibration transferred to the bearings.

Features:

- 4 to 10.75" Diameter
- .875" minimum End Disc
- .25" minimum Center Plates
- Several Hub/Bushing Systems Available

Options:

- Lagging
- Shafting
- Bearing Assemblies
- Take-Up Systems



Martin's Machined Drum Pulleys are manufactured with Crown face. Flat face available upon request.

Machined Drum Pulleys

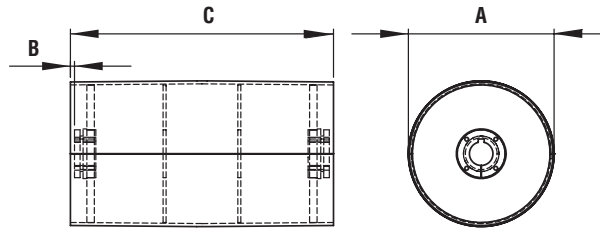
Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
4	CSD04008X15	8	MXT15	1.5	.75	8
4	CSD04014X15	14	MXT15	1.5	.75	14
4	CSD04020X15	20	MXT15	1.5	.75	19
4	CSD04026X15	26	MXT15	1.5	.75	24
4	CSD04032X15	32	MXT15	1.5	.75	30
4	CSD04038X15	38	MXT15	1.5	.75	35
4	CSD04044X15	44	MXT15	1.5	.75	40
4	CSD04051X15	51	MXT15	1.5	.75	46
4	CSD04057X15	57	MXT15	1.5	.75	52
4	CSD04063X15	63	MXT15	1.5	.75	57
4.5	CSD04508X15	8	MXT15	1.5	.75	10
4.5	CSD04508X20	8	MXT20	2	.75	12
4.5	CSD04514X15	14	MXT15	1.5	.75	16
4.5	CSD04514X20	14	MXT20	2	.75	17
4.5	CSD04520X15	20	MXT15	1.5	.75	22
4.5	CSD04520X20	20	MXT20	2	.75	23
4.5	CSD04526X15	26	MXT15	1.5	.75	28
4.5	CSD04526X20	26	MXT20	2	.75	29
4.5	CSD04532X15	32	MXT15	1.5	.75	34
4.5	CSD04532X20	32	MXT20	2	.75	35
4.5	CSD04538X15	38	MXT15	1.5	.75	40
4.5	CSD04538X20	38	MXT20	2	.75	41
4.5	CSD04544X15	44	MXT15	1.5	.75	46
4.5	CSD04544X20	44	MXT20	2	.75	47
4.5	CSD04551X15	51	MXT15	1.5	.75	53
4.5	CSD04551X20	51	MXT20	2	.75	54
4.5	CSD04557X15	57	MXT15	1.5	.75	59
4.5	CSD04557X20	57	MXT20	2	.75	60
4.5	CSD04563X15	63	MXT15	1.5	.75	35
4.5	CSD04563X20	63	MXT20	2	.75	66
5	CSD05008X15	8	MXT15	1.5	.75	11
5	CSD05008X20	8	MXT20	2	.75	16

Machined Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
5	CSD05014X15	14	MXT15	1.5	.75	18
5	CSD05014X20	14	MXT20	2	.75	22
5	CSD05020X15	20	MXT15	1.5	.75	25
5	CSD05020X20	20	MXT20	2	.75	29
5	CSD05026X15	26	MXT15	1.5	.75	31
5	CSD05026X20	26	MXT20	2	.75	36
5	CSD05032X15	32	MXT15	1.5	.75	38
5	CSD05032X20	32	MXT20	2	.75	43
5	CSD05038X15	38	MXT15	1.5	.75	45
5	CSD05038X20	38	MXT20	2	.75	49
5	CSD05044X15	44	MXT15	1.5	.75	52
5	CSD05044X20	44	MXT20	2	.75	56
5	CSD05051X15	51	MXT15	1.5	.75	59
5	CSD05051X20	51	MXT20	2	.75	64
5	CSD05057X15	57	MXT15	1.5	.75	66
5	CSD05057X20	57	MXT20	2	.75	70
5	CSD05063X15	63	MXT15	1.5	.75	73
5	CSD05063X20	63	MXT20	2	.75	77
5.5	CSD05508X15	8	MXT15	1.5	.75	23
5.5	CSD05508X20	8	MXT20	2	.75	28
5.5	CSD05514X15	14	MXT15	1.5	.75	37
5.5	CSD05514X20	14	MXT20	2	.75	42
5.5	CSD05520X15	20	MXT15	1.5	.75	52
5.5	CSD05520X20	20	MXT20	2	.75	57
5.5	CSD05526X15	26	MXT15	1.5	.75	67
5.5	CSD05526X20	26	MXT20	2	.75	72
5.5	CSD05532X15	32	MXT15	1.5	.75	82
5.5	CSD05532X20	32	MXT20	2	.75	86
5.5	CSD05538X15	38	MXT15	1.5	.75	96
5.5	CSD05538X20	38	MXT20	2	.75	101
5.5	CSD05544X15	44	MXT15	1.5	.75	111
5.5	CSD05544X20	44	MXT20	2	.75	116

* General position for Bushing face - for position per application consult *Martin*.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.



Machined Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
5.5	CSD05551X15	51	MXT15	1.5	.75	128
5.5	CSD05551X20	51	MXT20	2	.75	133
5.5	CSD05557X15	57	MXT15	1.5	.75	143
5.5	CSD05557X20	57	MXT20	2	.75	143
5.5	CSD05563X15	63	MXT15	1.5	.75	157
5.5	CSD05563X20	63	MXT20	2	.75	162
6	CSD06008X20	8	MXT20	2	.75	19
6	CSD06008X25	8	MXT25	2.5	.75	17
6	CSD06012X25	12	MXT25	2.5	.75	23
6	CSD06014X20	14	MXT20	2	.75	27
6	CSD06014X25	14	MXT25	2.5	.75	25
6	CSD06018X25	18	MXT25	2.5	.75	31
6	CSD06020X20	20	MXT20	2	.75	34
6	CSD06020X25	20	MXT25	2.5	.75	33
6	CSD06024X25	24	MXT25	2.5	.75	39
6	CSD06026X20	26	MXT20	2	.75	42
6	CSD06026X25	26	MXT25	2.5	.75	41
6	CSD06030X25	30	MXT25	2.5	.75	48
6	CSD06032X20	32	MXT20	2	.75	52
6	CSD06032X25	32	MXT25	2.5	.75	42
6	CSD06036X25	36	MXT25	2.5	.75	56
6	CSD06038X20	38	MXT20	2	.75	60
6	CSD06038X25	38	MXT25	2.5	.75	58
6	CSD06040X25	40	MXT25	2.5	.75	62
6	CSD06044X20	44	MXT20	2	.75	69
6	CSD06044X25	44	MXT25	2.5	.75	67
6	CSD06051X20	51	MXT20	2	.75	78
6	CSD06051X25	51	MXT25	2.5	.75	76
6	CSD06057X20	57	MXT20	2	.75	86
6	CSD06057X25	57	MXT25	2.5	.75	84
6	CSD06063X20	63	MXT20	2	.75	94
6	CSD06063X25	63	MXT25	2.5	.75	92
6.5	CSD06508X20	8	MXT20	2	.75	28
6.5	CSD06508X25	8	MXT25	2.5	.75	27
6.5	CSD06514X20	14	MXT20	2	.75	43
6.5	CSD06514X25	14	MXT25	2.5	.75	43
6.5	CSD06520X20	20	MXT20	2	.75	59
6.5	CSD06520X25	20	MXT25	2.5	.75	58
6.5	CSD06526X20	26	MXT20	2	.75	74
6.5	CSD06526X25	26	MXT25	2.5	.75	73
6.5	CSD06532X20	32	MXT20	2	.75	90
6.5	CSD06532X25	32	MXT25	2.5	.75	89
6.5	CSD06538X20	38	MXT20	2	.75	105
6.5	CSD06538X25	38	MXT25	2.5	.75	104
6.5	CSD06544X20	44	MXT20	2	.75	121
6.5	CSD06544X25	44	MXT25	2.5	.75	121
6.5	CSD06551X20	51	MXT20	2	.75	139
6.5	CSD06551X25	51	MXT25	2.5	.75	138
6.5	CSD06557X20	57	MXT20	2	.75	155

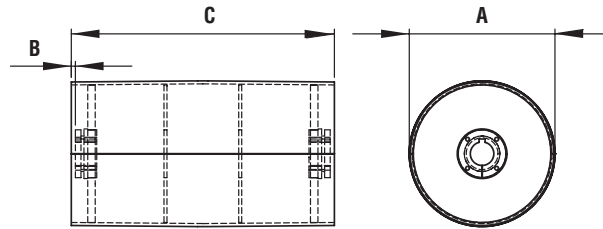
Machined Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
6.5	CSD06557X25	57	MXT25	2.5	.75	154
6.5	CSD06563X20	63	MXT20	2	.75	170
6.5	CSD06563X25	63	MXT25	2.5	.75	169
8	CSD08008X25	8	MXT25	2.5	.75	27
8	CSD08008X30	8	MXT30	3	.875	26
8	CSD08012X25	12	MXT25	2.5	.75	35
8	CSD08014X25	14	MXT25	2.5	.75	38
8	CSD08014X30	14	MXT30	3	.875	36
8	CSD08018X25	18	MXT25	2.5	.75	45
8	CSD08020X20	20	MXT20	2	.75	52
8	CSD08020X25	20	MXT25	2.5	.75	48
8	CSD08020X30	20	MXT30	3	.875	47
8	CSD08020X35	20	MXT25	2.5	.875	54
8	CSD08026X25	26	MXT25	2.5	.75	59
8	CSD08026X30	26	MXT30	3	.875	57
8	CSD08032X25	32	MXT25	2.5	.75	72
8	CSD08032X30	32	MXT30	3	.875	70
8	CSD08038X25	38	MXT25	2.5	.75	83
8	CSD08038X30	38	MXT30	3	.875	81
8	CSD08044X25	44	MXT25	2.5	.75	96
8	CSD08044X30	44	MXT30	3	.875	93
8	CSD08051X25	51	MXT25	2.5	.75	103
8	CSD08051X30	51	MXT30	3	.875	106
8	CSD08057X25	57	MXT25	2.5	.75	119
8	CSD08057X30	57	MXT30	3	.875	117
8	CSD08063X25	63	MXT25	2.5	.75	129
8	CSD08063X30	63	MXT30	3	.875	127
8.5	CSD08508X25	8	MXT25	2.5	.75	43
8.5	CSD08508X30	8	MXT30	3	.875	42
8.5	CSD08514X25	14	MXT25	2.5	.75	66
8.5	CSD08514X30	14	MXT30	3	.875	64
8.5	CSD08520X25	20	MXT25	2.5	.75	88
8.5	CSD08520X30	20	MXT30	3	.875	87
8.5	CSD08526X25	26	MXT25	2.5	.75	111
8.5	CSD08526X30	26	MXT30	3	.875	110
8.5	CSD08532X25	32	MXT25	2.5	.75	136
8.5	CSD08532X30	32	MXT30	3	.875	134
8.5	CSD08538X25	38	MXT25	2.5	.75	159
8.5	CSD08538X30	38	MXT30	3	.875	157
8.5	CSD08544X25	44	MXT25	2.5	.75	184
8.5	CSD08544X30	44	MXT30	3	.875	182
8.5	CSD08551X25	51	MXT25	2.5	.75	210
8.5	CSD08551X30	51	MXT30	3	.875	208
8.5	CSD08557X25	57	MXT25	2.5	.75	233
8.5	CSD08557X30	57	MXT30	3	.875	231
8.5	CSD08563X25	63	MXT25	2.5	.75	255
8.5	CSD08563X30	63	MXT30	3	.875	254
10	CSD10008X25	8	MXT25	2.5	.75	44
10	CSD10008X30	8	MXT30	3	.875	43

* General position for Bushing face - for position per application consult *Martin*.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.

Drum Pulleys — Machined



Machined Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
10	CSD10008X35	8	MXT35	3.5	.875	41
10	CSD10010X25	10	MXT25	2.5	.75	49
10	CSD10012X25	12	MXT25	2.5	.75	54
10	CSD10012X30	12	MXT30	3	.875	52
10	CSD10014X25	14	MXT25	2.5	.75	59
10	CSD10014X30	14	MXT30	3	.875	56
10	CSD10014X35	14	MXT35	3.5	.875	54
10	CSD10016X25	16	MXT25	2.5	.75	63
10	CSD10016X30	16	MXT30	3	.875	61
10	CSD10016X35	16	MXT35	3.5	.875	59
10	CSD10018X25	18	MXT25	2.5	.75	67
10	CSD10018X30	18	MXT30	3	.875	65
10	CSD10018X35	18	MXT35	3.5	.875	64
10	CSD10020X25	20	MXT25	2.5	.75	71
10	CSD10020X30	20	MXT30	3	.875	69
10	CSD10020X35	20	MXT35	3.5	.875	68
10	CSD10022X25	22	MXT25	2.5	.75	76
10	CSD10022X30	22	MXT30	3	.875	74
10	CSD10022X35	22	MXT35	3.5	.875	72
10	CSD10024X25	24	MXT25	2.5	.75	80
10	CSD10024X30	24	MXT30	3	.875	79
10	CSD10024X35	24	MXT35	3.5	.875	77
10	CSD10026X25	26	MXT25	2.5	.75	84
10	CSD10026X30	26	MXT30	3	.875	83
10	CSD10026X35	26	MXT35	3.5	.875	81
10	CSD10028X25	28	MXT25	2.5	.75	94
10	CSD10030X25	30	MXT25	2.5	.75	98
10	CSD10030X30	30	MXT30	3	.875	96
10	CSD10030X35	30	MXT35	3.5	.875	94
10	CSD10032X25	32	MXT25	2.5	.75	102
10	CSD10032X30	32	MXT30	3	.875	100
10	CSD10032X35	32	MXT35	3.5	.875	98
10	CSD10036X25	36	MXT25	2.5	.75	111
10	CSD10036X30	36	MXT30	3	.875	109
10	CSD10036X35	36	MXT35	3.5	.875	107
10	CSD10038X25	38	MXT25	2.5	.75	115
10	CSD10038X30	38	MXT30	3	.875	113
10	CSD10038X35	38	MXT35	3.5	.875	110
10	CSD10040X25	40	MXT25	2.5	.75	124
10	CSD10040X30	40	MXT30	3	.875	122
10	CSD10040X35	40	MXT35	3.5	.875	119
10	CSD10042X25	42	MXT25	2.5	.75	129
10	CSD10042X30	42	MXT30	3	.875	126
10	CSD10042X35	42	MXT35	3.5	.875	124
10	CSD10044X25	44	MXT25	2.5	.75	133
10	CSD10044X30	44	MXT30	3	.875	130
10	CSD10044X35	44	MXT35	3.5	.875	128
10	CSD10046X25	46	MXT25	2.5	.75	138
10	CSD10046X30	46	MXT30	3	.875	135

Machined Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
10	CSD10046X35	46	MXT35	3.5	.875	133
10	CSD10051X25	51	MXT25	2.5	.75	148
10	CSD10051X30	51	MXT30	3	.875	146
10	CSD10051X35	51	MXT35	3.5	.875	143
10	CSD10054X25	54	MXT25	2.5	.75	156
10	CSD10057X25	57	MXT25	2.5	.75	161
10	CSD10057X30	57	MXT30	3	.875	159
10	CSD10057X35	57	MXT35	3.5	.875	156
10	CSD10060X30	60	MXT30	3	.875	167
10	CSD10063X25	63	MXT25	2.5	.75	175
10	CSD10063X30	63	MXT30	3	.875	173
10	CSD10063X35	63	MXT35	3.5	.875	170
10.75	CSD10708X25	8	MXT25	2.5	.75	47
10.75	CSD10708X30	8	MXT30	3	.875	54
10.75	CSD10708X35	8	MXT35	3.5	.875	53
10.75	CSD10714X25	14	MXT25	2.5	.75	68
10.75	CSD10714X30	14	MXT30	3	.875	76
10.75	CSD10714X35	14	MXT35	3.5	.875	74
10.75	CSD10720X25	20	MXT25	2.5	.75	89
10.75	CSD10720X30	20	MXT30	3	.875	97
10.75	CSD10720X35	20	MXT35	3.5	.875	96
10.75	CSD10726X25	26	MXT25	2.5	.75	111
10.75	CSD10726X30	26	MXT30	3	.875	119
10.75	CSD10726X35	26	MXT35	3.5	.875	118
10.75	CSD10732X25	32	MXT25	2.5	.75	137
10.75	CSD10732X30	32	MXT30	3	.875	144
10.75	CSD10732X35	32	MXT35	3.5	.875	143
10.75	CSD10738X30	38	MXT30	3	.875	166
10.75	CSD10738X25	38	MXT25	2.5	.75	158
10.75	CSD10738X35	38	MXT35	3.5	.875	164
10.75	CSD10744X25	44	MXT25	2.5	.75	185
10.75	CSD10744X30	44	MXT30	3	.875	192
10.75	CSD10744X35	44	MXT35	3.5	.875	190
10.75	CSD10751X25	51	MXT25	2.5	.75	210
10.75	CSD10751X30	51	MXT30	3	.875	216
10.75	CSD10751X35	51	MXT35	3.5	.875	241
10.75	CSD10757X25	57	MXT25	2.5	.75	231
10.75	CSD10757X30	57	MXT30	3	.875	238
10.75	CSD10757X35	57	MXT35	3.5	.875	236
10.75	CSD10763X25	63	MXT25	2.5	.75	252
10.75	CSD10763X30	63	MXT30	3	.875	259
10.75	CSD10763X35	63	MXT35	3.5	.875	257



Custom Shafting Available!

* General position for Bushing face - for position per application consult *Martin*.
BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.

Martin offers Standard Duty Drum Pulleys using a minimum .25" rim, .375" end discs and .25" center discs. Each Standard Drum Pulley features a rolled rim, which has been fabricated on either of our flat or custom crowned roll machines. The rims are trimmed and hydraulically seated around the heavy end discs to ensure maximum concentricity. Once the Pulley is formed, Martin utilizes a submerged arc weldment to ensure optimum connection of its individual components.

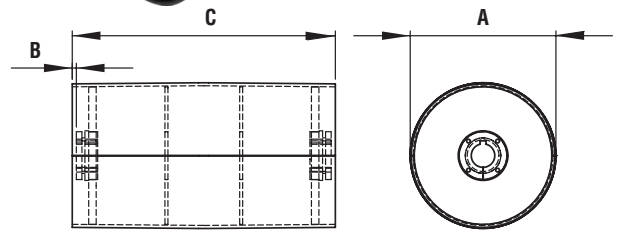
Our trademark Standard Duty Pulley is the heaviest off the shelf CEMA grade Pulley in the industry. The thicker materials used in our Standard Duty Pulleys yield longer life, provide better resistance to wear, and withstand stresses that are present in every conveying application.

Features:

- 12" to 60" Diameter
- .375" minimum End Disc
- .25" minimum Center Plates
- Several Hub/Bushing systems available
- Shafting
- Bearing Assemblies
- Take-Up Systems

Options:

- Lagging



Martin's Standard Drum Pulleys are manufactured with Crown face. Flat face available upon request.

Standard Duty Drum Pulleys

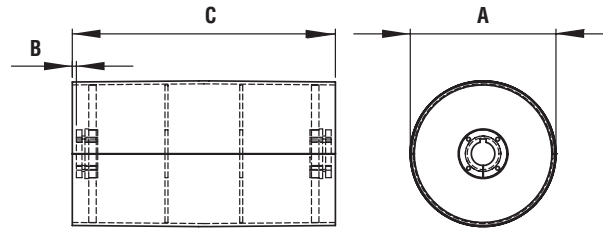
Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
12	CSD12012X25	12	MXT25	2.5	.75	73
12	CSD12012X30	12	MXT30	3	.875	71
12	CSD12012X35	12	MXT35	3.5	.875	81
12	CSD12014X25	14	MXT25	2.5	.75	78
12	CSD12014X30	14	MXT30	3	.875	77
12	CSD12014X35	14	MXT35	3.5	.875	87
12	CSD12016X25	16	MXT25	2.5	.75	84
12	CSD12016X30	16	MXT30	3	.875	82
12	CSD12016X35	18	MXT35	3.5	.875	92
12	CSD12018X25	18	MXT25	2.5	.75	89
12	CSD12018X30	18	MXT30	3	.875	88
12	CSD12018X35	18	MXT35	3.5	.875	97
12	CSD12020X25	20	MXT25	2.5	.75	94
12	CSD12020X30	20	MXT30	3	.875	93
12	CSD12020X35	20	MXT35	3.5	.875	103
12	CSD12022X25	22	MXT25	2.5	.75	100
12	CSD12022X30	22	MXT30	3	.875	98
12	CSD12022X35	22	MXT35	3.5	.875	108
12	CSD12024X25	24	MXT25	2.5	.75	114
12	CSD12024X30	24	MXT30	3	.875	104
12	CSD12024X35	24	MXT35	3.5	.875	114
12	CSD12026X25	26	MXT25	2.5	.75	111
12	CSD12026X30	26	MXT30	3	.875	109
12	CSD12026X35	26	MXT35	3.5	.875	119
12	CSD12028X25	28	MXT25	2.5	.75	122
12	CSD12028X30	28	MXT30	3	.875	120
12	CSD12030X25	30	MXT25	2.5	.75	128
12	CSD12030X30	30	MXT30	3	.875	126
12	CSD12030X35	30	MXT35	3.5	.875	135
12	CSD12032X25	32	MXT25	2.5	.75	133
12	CSD12032X30	32	MXT30	3	.875	131
12	CSD12032X35	32	MXT35	3.5	.875	140

Standard Duty Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
12	CSD12032X45	32	MXT45	4.5	1	131
12	CSD12034X30	34	MXT30	3	.875	136
12	CSD12036X25	36	MXT25	2.5	.75	144
12	CSD12036X30	36	MXT30	3	.875	142
12	CSD12036X35	36	MXT35	3.5	.875	151
12	CSD12038X25	38	MXT25	2.5	.75	149
12	CSD12038X30	38	MXT30	3	.875	147
12	CSD12038X35	38	MXT35	3.5	.875	156
12	CSD12040X25	40	MXT25	2.5	.75	161
12	CSD12040X30	40	MXT30	3	.875	158
12	CSD12040X35	40	MXT35	3.5	.875	167
12	CSD12042X25	42	MXT25	2.5	.75	166
12	CSD12042X30	42	MXT30	3	.875	163
12	CSD12042X35	42	MXT35	3.5	.875	172
12	CSD12044X25	44	MXT25	2.5	.75	171
12	CSD12044X30	44	MXT30	3	.875	169
12	CSD12044X35	44	MXT35	3.5	.875	178
12	CSD12046X25	46	MXT25	2.5	.75	176
12	CSD12046X30	46	MXT30	3	.875	174
12	CSD12046X35	46	MXT35	3.5	.875	183
12	CSD12051X25	51	MXT25	2.5	.75	190
12	CSD12051X30	51	MXT30	3	.875	187
12	CSD12051X35	51	MXT35	3.5	.875	196
12	CSD12057X25	57	MXT25	2.5	.75	281
12	CSD12057X30	57	MXT30	3	.875	279
12	CSD12057X35	57	MXT35	3	.875	288
12	CSD12057X45	57	MXT45	4.5	1	276
12	CSD12063X25	63	MXT25	2.5	.75	311
12	CSD12063X30	63	MXT30	3	.875	308
12	CSD12063X40	63	MXT40	4	1	305
14	CSD14012X25	63	MXT25	2.5	.75	70
14	CSD14012X30	12	MXT30	3	.875	77

* General position for Bushing face - for position per application consult Martin.
BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest Martin facility.

Drum Pulleys Standard Duty



Standard Duty Drum Pulleys

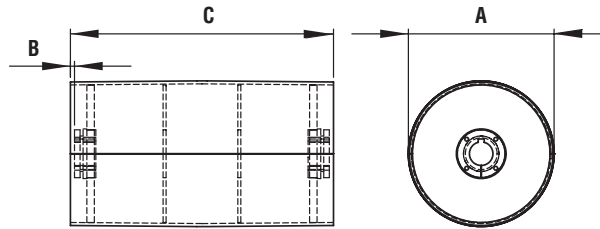
Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
14	CSD14012X35	12	MXT35	3.5	.875	76
14	CSD14012X40	12	MXT40	4	1	87
14	CSD14014X25	14	MXT25	2.5	.75	76
14	CSD14014X30	14	MXT30	3	.875	24
14	CSD14014X35	14	MXT35	3.5	.875	82
14	CSD14014X40	14	MXT40	4	1	93
14	CSD14016X25	16	MXT25	2.5	.75	82
14	CSD14016X30	16	MXT30	3	.875	90
14	CSD14016X35	16	MXT35	3.5	.875	89
14	CSD14016X40	18	MXT40	4	1	99
14	CSD14018X25	18	MXT25	2.5	.75	88
14	CSD14018X30	18	MXT30	3	.875	96
14	CSD14018X35	18	MXT35	3.5	.875	95
14	CSD14018X40	18	MXT40	4	1	106
14	CSD14020X25	20	MXT25	2.5	.75	95
14	CSD14020X30	20	MXT30	3	.875	102
14	CSD14020X35	20	MXT35	3.5	.875	101
14	CSD14020X40	20	MXT40	4	1	112
14	CSD14022X25	22	MXT25	2.5	.75	101
14	CSD14022X30	22	MXT30	3	.875	108
14	CSD14022X35	22	MXT35	3.5	.875	107
14	CSD14022X40	22	MXT40	4	1	118
14	CSD14024X25	24	MXT25	2.5	.75	107
14	CSD14024X30	24	MXT30	3	.875	114
14	CSD14024X35	24	MXT35	3.5	.875	113
14	CSD14024X40	24	MXT40	4	1	124
14	CSD14026X25	26	MXT25	2.5	.75	113
14	CSD14026X30	26	MXT30	3	.875	121
14	CSD14026X35	26	MXT35	3.5	.875	120
14	CSD14026X40	26	MXT40	4	1	130
14	CSD14028X30	28	MXT30	3	.875	134
14	CSD14028X35	28	MXT35	3.5	.875	133
14	CSD14030X25	30	MXT25	2.5	.75	134
14	CSD14030X30	30	MXT30	3	.875	140
14	CSD14030X35	30	MXT35	3.5	.875	139
14	CSD14030X40	30	MXT40	4	1	151
14	CSD14032X25	32	MXT25	2.5	.75	140
14	CSD14032X30	32	MXT30	3	.875	147
14	CSD14032X35	32	MXT35	3.5	.875	146
14	CSD14032X40	32	MXT40	4	1	157
14	CSD14036X25	36	MXT25	2.5	.75	153
14	CSD14036X30	36	MXT30	3	.875	159
14	CSD14036X35	36	MXT35	3.5	.875	158
14	CSD14036X40	36	MXT40	4	1	169
14	CSD14038X25	38	MXT25	2.5	.75	159
14	CSD14038X30	38	MXT30	3	.875	165
14	CSD14038X35	38	MXT35	3.5	.875	164
14	CSD14038X40	38	MXT40	4	1	175
14	CSD14040X25	40	MXT25	2.5	.75	174

Standard Duty Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
14	CSD14040X30	40	MXT30	3	.875	179
14	CSD14042X25	42	MXT25	2.5	.75	180
14	CSD14042X30	42	MXT30	3	.875	185
14	CSD14042X35	42	MXT35	3.5	.875	174
14	CSD14042X40	42	MXT40	4	1	195
14	CSD14044X25	44	MXT25	2.5	.75	186
14	CSD14044X30	44	MXT30	3	.875	191
14	CSD14044X35	44	MXT35	3.5	.875	190
14	CSD14044X40	44	MXT40	4	1	201
14	CSD14046X25	46	MXT25	2.5	.75	192
14	CSD14046X30	46	MXT30	3	.875	197
14	CSD14046X35	46	MXT35	3.5	.875	196
14	CSD14046X40	46	MXT40	4	1	208
14	CSD14051X25	51	MXT25	2.5	.75	208
14	CSD14051X30	51	MXT30	3	.875	212
14	CSD14051X35	51	MXT35	3.5	.875	211
14	CSD14051X40	51	MXT40	4	1	223
14	CSD14051X45	51	MXT45	4.5	1	222
14	CSD14054X25	54	MXT25	2.5	.75	299
14	CSD14054X30	54	MXT30	3	.875	304
14	CSD14054X35	54	MXT35	3.5	.875	303
14	CSD14054X40	54	MXT40	4	1	315
14	CSD14057X25	57	MXT25	2.5	.75	313
14	CSD14057X30	57	MXT30	3	.875	318
14	CSD14057X35	57	MXT35	3.5	.875	317
14	CSD14057X40	57	MXT40	4	1	328
14	CSD14057X45	57	MXT45	4.5	1	327
14	CSD14060X25	60	MXT25	2.5	.75	335
14	CSD14060X30	60	MXT30	3	.875	339
14	CSD14060X35	60	MXT35	3.5	.875	337
14	CSD14060X40	60	MXT40	4	1	350
14	CSD14063X25	63	MXT25	2.5	.75	349
14	CSD14063X30	63	MXT30	3	.875	352
14	CSD14063X35	63	MXT35	3.5	.875	351
14	CSD14063X40	63	MXT40	4	1	363
14	CSD14066X25	66	MXT25	2.5	.75	357
14	CSD14066X30	66	MXT25	2.5	.75	361
14	CSD14066X35	66	MXT35	3.5	.875	360
14	CSD14066X40	66	MXT40	4	1	372
16	CSD16012X25	12	MXT25	2.5	.75	85
16	CSD16012X30	12	MXT30	2.5	.75	92
16	CSD16012X35	12	MXT35	3.5	.875	91
16	CSD16012X40	12	MXT40	4	1	102
16	CSD16014X25	14	MXT25	2.5	.75	92
16	CSD16014X30	14	MXT30	2.5	.75	99
16	CSD16014X35	14	MXT35	3.5	.875	98
16	CSD16014X40	14	MXT40	4	1	109
16	CSD16016X25	16	MXT25	2.5	.75	99
16	CSD16016X30	16	MXT30	2.5	.75	106

* General position for Bushing face - for position per application consult *Martin*.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.



Standard Duty Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
16	CSD16016X35	16	MXT35	3.5	.875	105
16	CSD16016X40	16	MXT40	4	1	116
16	CSD16018X25	18	MXT25	2.5	.75	106
16	CSD16018X30	18	MXT30	2.5	.75	114
16	CSD16018X35	18	MXT35	3.5	.875	112
16	CSD16018X40	18	MXT40	4	1	123
16	CSD16020X25	20	MXT25	2.5	.75	113
16	CSD16020X30	20	MXT30	2.5	.75	121
16	CSD16020X35	20	MXT35	3.5	.875	120
16	CSD16020X40	20	MXT40	4	1	130
16	CSD16022X25	22	MXT25	2.5	.75	120
16	CSD16022X30	22	MXT30	2.5	.75	128
16	CSD16022X35	22	MXT35	3.5	.875	127
16	CSD16022X40	22	MXT40	4	1	137
16	CSD16024X25	24	MXT25	2.5	.75	127
16	CSD16024X30	24	MXT30	2.5	.75	135
16	CSD16024X35	24	MXT35	3.5	.875	134
16	CSD16024X40	24	MXT40	4	1	144
16	CSD16026X25	26	MXT25	2.5	.75	134
16	CSD16026X30	26	MXT30	2.5	.75	142
16	CSD16026X35	26	MXT35	3.5	.875	141
16	CSD16026X40	26	MXT40	4	1	151
16	CSD16026X50	26	MXT50	5	1	163
16	CSD16028X25	28	MXT25	2.5	.75	153
16	CSD16028X30	28	MXT30	2.5	.75	160
16	CSD16028X35	28	MXT35	3.5	.875	158
16	CSD16030X25	30	MXT25	2.5	.75	160
16	CSD16030X30	30	MXT30	2.5	.75	167
16	CSD16030X35	30	MXT35	3.5	.875	165
16	CSD16030X40	30	MXT40	4	1	175
16	CSD16032X25	32	MXT25	2.5	.75	167
16	CSD16032X30	32	MXT30	2.5	.75	174
16	CSD16032X35	32	MXT35	3.5	.875	173
16	CSD16032X40	32	MXT40	4	1	182
16	CSD16032X45	32	MXT45	4.5	1	182
16	CSD16032X50	32	MXT50	5	1	193
16	CSD16032X60	32	MXT60	6	1.125	211
16	CSD16034X35	34	MXT35	3.5	.875	180
16	CSD16034X40	34	MXT40	4	1	189
16	CSD16036X25	36	MXT25	2.5	.75	182
16	CSD16036X30	36	MXT30	2.5	.75	188
16	CSD16036X35	36	MXT35	3.5	.875	187
16	CSD16036X40	36	MXT40	4	1	196
16	CSD16038X25	38	MXT25	2.5	.75	184
16	CSD16038X30	38	MXT30	2.5	.75	195
16	CSD16038X35	38	MXT35	3.5	.875	194
16	CSD16038X40	38	MXT40	4	1	203
16	CSD16038X50	38	MXT50	5	1	215
16	CSD16040X25	40	MXT25	2.5	.75	207

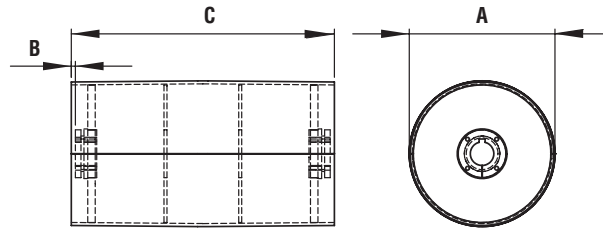
Standard Duty Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
16	CSD16040X30	40	MXT30	2.5	.75	212
16	CSD16040X35	40	MXT35	3.5	.875	211
16	CSD16040X40	40	MXT40	4	1	220
16	CSD16040X45	40	MXT45	4.5	1	220
16	CSD16040X50	40	MXT50	5	1	231
16	CSD16042X25	42	MXT25	2.5	.75	215
16	CSD16042X30	42	MXT30	2.5	.75	219
16	CSD16042X35	42	MXT35	3.5	.875	218
16	CSD16042X40	42	MXT40	4	1	227
16	CSD16044X25	44	MXT25	2.5	.75	222
16	CSD16044X30	44	MXT30	3	.875	226
16	CSD16044X35	44	MXT35	3.5	.875	225
16	CSD16044X40	44	MXT40	4	1	234
16	CSD16046X25	46	MXT25	2.5	.75	229
16	CSD16046X30	46	MXT30	3	.875	233
16	CSD16046X35	46	MXT35	3.5	.875	232
16	CSD16046X40	46	MXT40	4	1	241
16	CSD16051X25	51	MXT25	2.5	.75	291
16	CSD16051X30	51	MXT30	3	.875	295
16	CSD16051X35	51	MXT35	3.5	.875	294
16	CSD16051X40	51	MXT40	4	1	303
16	CSD16051X50	51	MXT50	5	1	314
16	CSD16054X25	54	MXT25	2.5	.75	304
16	CSD16054X30	54	MXT30	3	.875	309
16	CSD16054X35	54	MXT35	3.5	.875	307
16	CSD16054X40	54	MXT40	4	1	316
16	CSD16057X30	57	MXT30	3	.875	322
16	CSD16057X35	57	MXT35	3.5	.875	321
16	CSD16057X40	57	MXT40	4	1	329
16	CSD16057X45	57	MXT45	4.5	1	329
16	CSD16060X25	60	MXT25	2.5	.75	342
16	CSD16060X30	60	MXT30	3	.875	345
16	CSD16060X35	60	MXT35	3.5	.875	344
16	CSD16060X40	60	MXT40	4	1	351
16	CSD16063X25	63	MXT25	2.5	.75	355
16	CSD16063X30	63	MXT30	3	.875	358
16	CSD16063X35	63	MXT35	3.5	.875	357
16	CSD16063X40	63	MXT40	4	1	365
16	CSD16063X45	63	MXT45	4.5	1	365
16	CSD16063X50	63	MXT50	5	1	376
16	CSD16066X25	66	MXT25	2.5	.75	416
16	CSD16066X30	66	MXT30	3	.875	421
16	CSD16066X35	66	MXT35	3.5	.875	420
16	CSD16066X40	66	MXT40	4	1	429
18	CSD18012X25	12	MXT25	2.5	.75	101
18	CSD18012X30	12	MXT30	3	.875	109
18	CSD18012X35	12	MXT35	3.5	.875	107
18	CSD18012X40	12	MXT40	4	1	118
18	CSD18014X25	14	MXT25	2.5	.75	109

* General position for Bushing face - for position per application consult *Martin*.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.

Drum Pulleys Standard Duty



Standard Duty Drum Pulleys

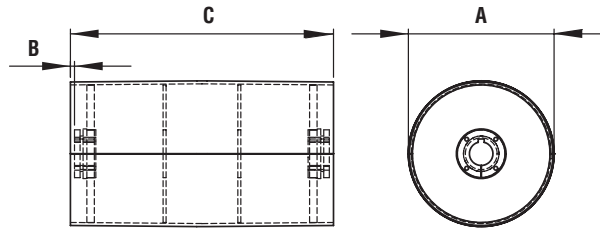
Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
18	CSD18014X30	14	MXT30	3	.875	117
18	CSD18014X35	14	MXT35	3.5	.875	116
18	CSD18014X40	14	MXT40	4	1	126
18	CSD18014X45	14	MXT45	4.5	1	140
18	CSD18016X25	16	MXT25	2.5	.75	117
18	CSD18016X30	16	MXT30	3	.875	125
18	CSD18016X35	16	MXT35	3.5	.875	124
18	CSD18016X40	16	MXT40	4	1	134
18	CSD18016X45	16	MXT45	4.5	1	14
18	CSD18018X25	16	MXT25	2.5	.75	125
18	CSD18018X30	18	MXT30	3	.875	133
18	CSD18018X35	18	MXT35	3.5	.875	131
18	CSD18018X40	18	MXT40	4	1	142
18	CSD18018X45	18	MXT45	4.5	1	155
18	CSD18020X25	16	MXT25	2.5	.75	133
18	CSD18020X30	16	MXT30	2.5	.75	140
18	CSD18020X35	20	MXT35	3.5	.875	139
18	CSD18020X40	20	MXT40	4	1	150
18	CSD18020X45	20	MXT45	4.5	1	163
18	CSD18022X25	22	MXT25	2.5	.75	141
18	CSD18022X30	22	MXT30	3	.875	148
18	CSD18022X35	22	MXT35	3.5	.875	147
18	CSD18022X40	22	MXT40	4	1	158
18	CSD18022X45	22	MXT45	4.5	1	171
18	CSD18024X25	24	MXT25	2.5	.75	149
18	CSD18024X30	24	MXT30	3	.875	156
18	CSD18024X35	24	MXT35	3.5	.875	155
18	CSD18024X40	24	MXT40	4	1	166
18	CSD18024X45	24	MXT45	4.5	1	179
18	CSD18026X25	26	MXT25	2.5	.75	157
18	CSD18026X30	26	MXT30	3	.875	164
18	CSD18026X35	26	MXT35	3.5	.875	163
18	CSD18026X40	26	MXT40	4	1	174
18	CSD18026X45	26	MXT45	4.5	1	187
18	CSD18026X50	26	MXT50	5	1	197
18	CSD18028X25	28	MXT25	2.5	.75	180
18	CSD18028X30	28	MXT30	3	.875	187
18	CSD18028X35	28	MXT35	3.5	.875	185
18	CSD18028X40	28	MXT40	4	1	195
18	CSD18030X25	30	MXT25	2.5	.75	188
18	CSD18030X30	30	MXT30	3	.875	194
18	CSD18030X35	30	MXT35	3.5	.875	193
18	CSD18030X40	30	MXT40	4	1	203
18	CSD18030X45	30	MXT45	4.5	1	216
18	CSD18032X25	32	MXT25	2.5	.75	196
18	CSD18032X30	32	MXT30	3	.875	202
18	CSD18032X35	32	MXT35	3.5	.875	201
18	CSD18032X40	32	MXT40	4	1	211
18	CSD18032X45	32	MXT45	4.5	1	224

Standard Duty Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
18	CSD18032X50	32	MXT50	5	1	233
18	CSD18034X35	34	MXT35	3.5	.875	209
18	CSD18036X25	36	MXT25	2.5	.75	212
18	CSD18036X30	36	MXT30	3	.875	218
18	CSD18036X35	36	MXT35	3.5	.875	217
18	CSD18036X40	36	MXT40	4	1	227
18	CSD18036X45	36	MXT45	4.5	1	240
18	CSD18036X50	36	MXT50	5	1	248
18	CSD18038X25	38	MXT25	2.5	.75	220
18	CSD18038X30	38	MXT30	3	.875	226
18	CSD18038X35	38	MXT35	3.5	.875	225
18	CSD18038X40	38	MXT40	4	1	235
18	CSD18038X45	38	MXT45	4.5	1	248
18	CSD18038X50	38	MXT50	5	1	256
18	CSD18040X25	40	MXT25	2.5	.75	243
18	CSD18040X30	40	MXT30	3	.875	248
18	CSD18040X35	40	MXT35	3.5	.875	247
18	CSD18040X40	40	MXT40	4	1	256
18	CSD18040X45	40	MXT45	4.5	1	269
18	CSD18040X50	40	MXT50	5	1	276
18	CSD18042X25	42	MXT25	2.5	.75	251
18	CSD18042X30	42	MXT30	3	.875	256
18	CSD18042X35	42	MXT35	3.5	.875	255
18	CSD18042X40	42	MXT40	4	1	269
18	CSD18042X45	42	MXT45	4.5	1	277
18	CSD18044X25	44	MXT25	2.5	.75	259
18	CSD18044X30	44	MXT30	3	.875	264
18	CSD18044X35	44	MXT35	3.5	.875	263
18	CSD18044X40	44	MXT40	4	1	271
18	CSD18044X45	44	MXT45	4.5	1	285
18	CSD18044X50	44	MXT50	5	1	292
18	CSD18044X60	44	MXT60	6	1.125	308
18	CSD18046X25	46	MXT25	2.5	.75	312
18	CSD18046X30	46	MXT30	3	.875	317
18	CSD18046X35	46	MXT35	3.5	.875	316
18	CSD18046X40	46	MXT40	4	1	324
18	CSD18046X45	46	MXT45	4.5	1	337
18	CSD18051X25	51	MXT25	2.5	.75	337
18	CSD18051X30	51	MXT30	3	.875	342
18	CSD18051X35	51	MXT35	3.5	.875	341
18	CSD18051X40	51	MXT40	4	1	349
18	CSD18051X45	51	MXT45	4.5	1	362
18	CSD18051X50	51	MXT50	5	1	369
18	CSD18051X60	51	MXT60	6	1.125	385
18	CSD18054X25	54	MXT25	2.5	.75	352
18	CSD18054X30	54	MXT30	3	.875	356
18	CSD18054X35	54	MXT35	3.5	.875	355
18	CSD18054X40	54	MXT40	4	1	364
18	CSD18054X45	54	MXT45	4.5	1	377

* General position for Bushing face - for position per application consult *Martin*.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.



Standard Duty Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
18	CSD18054X50	54	MXT50	5	1	384
18	CSD18057X25	57	MXT25	2.5	.75	367
18	CSD18057X30	57	MXT30	3	.875	371
18	CSD18057X35	57	MXT35	3.5	.875	370
18	CSD18057X40	57	MXT40	4	1	379
18	CSD18057X45	57	MXT45	4.5	1	391
18	CSD18057X50	57	MXT50	5	1	398
18	CSD18057X60	57	MXT60	6	1.125	415
18	CSD18060X25	60	MXT25	2.5	.75	396
18	CSD18060X30	60	MXT30	3	.875	400
18	CSD18060X35	60	MXT35	3.5	.875	399
18	CSD18060X40	60	MXT40	4	1	406
18	CSD18060X45	60	MXT45	4.5	1	419
18	CSD18063X25	63	MXT25	2.5	.75	411
18	CSD18063X30	63	MXT30	3	.875	415
18	CSD18063X35	63	MXT35	3.5	.875	414
18	CSD18063X40	63	MXT40	4	1	421
18	CSD18063X45	63	MXT45	4.5	1	434
18	CSD18063X50	63	MXT50	5	1	439
18	CSD18063X60	63	MXT60	6	1.125	455
18	CSD18063X70	63	MXT70	7	1.25	478
18	CSD18066X25	66	MXT25	2.5	.75	509
18	CSD18066X30	66	MXT30	3	.875	511
18	CSD18066X35	66	MXT35	3.5	.875	510
18	CSD18066X40	66	MXT40	4	1	516
18	CSD18066X45	66	MXT45	4.5	1	529
20	CSD20010X25	10	MXT25	2.5	.75	110
20	CSD20012X25	12	MXT25	2.5	.75	119
20	CSD20012X30	12	MXT30	3	.875	126
20	CSD20012X35	12	MXT35	3.5	.875	125
20	CSD20012X40	12	MXT40	4	1	136
20	CSD20014X25	14	MXT25	2.5	.75	128
20	CSD20014X30	14	MXT30	3	.875	135
20	CSD20014X35	14	MXT35	3.5	.875	134
20	CSD20014X40	14	MXT40	4	1	145
20	CSD20014X45	14	MXT45	4.5	1	162
20	CSD20016X25	16	MXT25	2.5	.75	137
20	CSD20016X30	16	MXT30	3	.875	144
20	CSD20016X35	16	MXT35	3.5	.875	143
20	CSD20016X40	16	MXT40	4	1	154
20	CSD20016X45	16	MXT45	4.5	1	171
20	CSD20018X25	18	MXT25	2.5	.75	145
20	CSD20018X30	18	MXT30	3	.875	153
20	CSD20018X35	18	MXT35	3.5	.875	152
20	CSD20018X40	18	MXT40	4	1	163
20	CSD20018X45	18	MXT45	4.5	1	180
20	CSD20020X25	20	MXT25	2.5	.75	154
20	CSD20020X30	20	MXT30	3	.875	162
20	CSD20020X35	20	MXT35	3.5	.875	161

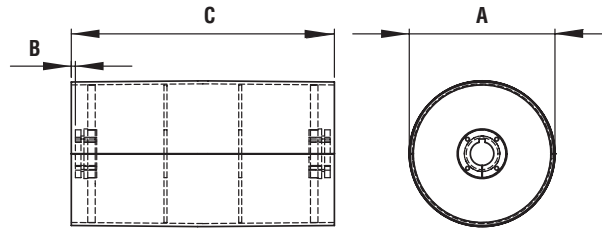
Standard Duty Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
20	CSD20020X40	20	MXT40	4	1	171
20	CSD20020X45	20	MXT45	4.5	1	189
20	CSD20022X25	22	MXT25	2.5	.75	163
20	CSD20022X30	22	MXT30	3	.875	171
20	CSD20022X35	22	MXT35	3.5	.875	169
20	CSD20022X40	22	MXT40	4	1	180
20	CSD20022X45	22	MXT45	4.5	1	198
20	CSD20024X25	24	MXT25	2.5	.75	172
20	CSD20024X30	24	MXT30	3	.875	179
20	CSD20024X35	24	MXT35	3.5	.875	178
20	CSD20024X40	24	MXT40	4	1	189
20	CSD20024X45	24	MXT45	4.5	1	206
20	CSD20026X25	26	MXT25	2.5	.75	181
20	CSD20026X30	26	MXT30	3	.875	188
20	CSD20026X35	26	MXT35	3.5	.875	187
20	CSD20026X40	26	MXT40	4	1	198
20	CSD20026X45	26	MXT45	4.5	1	215
20	CSD20026X50	26	MXT50	5	1	225
20	CSD20028X25	28	MXT25	2.5	.75	209
20	CSD20028X30	28	MXT30	3	.875	215
20	CSD20028X35	28	MXT35	3.5	.875	214
20	CSD20028X40	28	MXT40	4	1	229
20	CSD20028X50	28	MXT50	5	1	250
20	CSD20030X25	30	MXT25	2.5	.75	218
20	CSD20030X30	30	MXT30	3	.875	224
20	CSD20030X35	30	MXT35	3.5	.875	223
20	CSD20030X40	30	MXT40	4	1	233
20	CSD20030X45	30	MXT45	4.5	1	250
20	CSD20032X25	32	MXT25	2.5	.75	227
20	CSD20032X30	32	MXT30	3	.875	233
20	CSD20032X35	32	MXT35	3.5	.875	232
20	CSD20032X40	32	MXT40	4	1	242
20	CSD20032X45	32	MXT45	4.5	1	259
20	CSD20032X50	32	MXT50	5	1	267
20	CSD20034X25	34	MXT25	2.5	.75	236
20	CSD20034X35	34	MXT35	3.5	.875	241
20	CSD20034X40	34	MXT40	4	1	250
20	CSD20034X45	34	MXT45	4.5	1	268
20	CSD20036X25	36	MXT25	2.5	.75	244
20	CSD20036X30	36	MXT30	3	.875	251
20	CSD20036X35	36	MXT35	3.5	.875	250
20	CSD20036X40	36	MXT40	4	1	259
20	CSD20036X45	36	MXT45	4.5	1	276
20	CSD20036X70	36	MXT70	7	1.25	326
20	CSD20038X25	38	MXT25	2.5	.75	253
20	CSD20038X30	38	MXT30	3	.875	259
20	CSD20038X35	38	MXT35	3.5	.875	258
20	CSD20038X40	38	MXT40	4	1	268
20	CSD20038X45	38	MXT45	4.5	1	285

* General position for Bushing face - for position per application consult *Martin*.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.

Drum Pulleys Standard Duty



Standard Duty Drum Pulleys

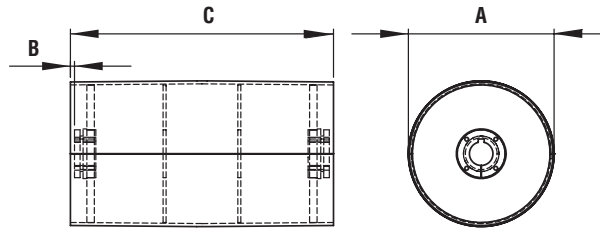
Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
20	CSD20038X50	38	MXT50	5	1	294
20	CSD20038X60	38	MXT60	6	1.125	308
20	CSD20040X25	40	MXT25	2.5	.75	282
20	CSD20040X30	40	MXT30	3	.875	286
20	CSD20040X35	40	MXT35	3.5	.875	285
20	CSD20040X40	40	MXT40	4	1	294
20	CSD20040X45	40	MXT45	4.5	1	311
20	CSD20040X50	40	MXT50	5	1	318
20	CSD20042X30	42	MXT30	3	.875	295
20	CSD20042X35	42	MXT35	3.5	.875	294
20	CSD20042X40	42	MXT40	4	1	303
20	CSD20042X45	42	MXT45	4.5	1	320
20	CSD20044X30	44	MXT30	3	.875	304
20	CSD20044X35	44	MXT35	3.5	.875	303
20	CSD20044X40	44	MXT40	4	1	311
20	CSD20044X45	44	MXT45	4.5	1	329
20	CSD20046X30	46	MXT30	3	.875	363
20	CSD20046X35	46	MXT35	3.5	.875	362
20	CSD20046X40	46	MXT40	4	1	370
20	CSD20046X50	46	MXT50	5	1	394
20	CSD20051X25	51	MXT25	2.5	.75	385
20	CSD20051X30	51	MXT30	3	.875	390
20	CSD20051X35	51	MXT35	3.5	.875	389
20	CSD20051X40	51	MXT40	4	1	398
20	CSD20051X45	51	MXT45	4.5	1	414
20	CSD20051X50	51	MXT50	5	1	421
20	CSD20054X30	54	MXT30	3	.875	407
20	CSD20054X35	54	MXT35	3.5	.875	406
20	CSD20054X40	54	MXT40	4	1	414
20	CSD20054X45	54	MXT45	4.5	1	431
20	CSD20054X50	54	MXT50	5	1	438
20	CSD20057X25	57	MXT25	2.5	.75	418
20	CSD20057X30	57	MXT30	3	.875	423
20	CSD20057X35	57	MXT35	3.5	.875	422
20	CSD20057X40	57	MXT40	4	1	431
20	CSD20057X45	57	MXT45	4.5	1	447
20	CSD20057X50	57	MXT50	5	1	454
20	CSD20060X30	60	MXT30	3	.875	457
20	CSD20060X35	60	MXT35	3.5	.875	456
20	CSD20060X40	60	MXT40	4	1	464
20	CSD20060X45	60	MXT45	4.5	1	480
20	CSD20060X50	60	MXT50	5	1	486
20	CSD20063X25	63	MXT25	2.5	.75	470
20	CSD20063X30	63	MXT30	3	.875	474
20	CSD20063X35	63	MXT35	3.5	.875	473
20	CSD20063X40	63	MXT40	4	1	480
20	CSD20063X45	63	MXT45	4.5	1	498
20	CSD20063X50	63	MXT50	5	1	502
20	CSD20063X60	63	MXT60	6	1.125	513

Standard Duty Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
20	CSD20063X70	63	MXT70	7	1.25	542
20	CSD20066X30	66	MXT30	3	.875	584
20	CSD20066X35	66	MXT35	3.5	.875	582
20	CSD20066X40	66	MXT40	4	1	589
20	CSD20066X45	66	MXT45	4.5	1	605
20	CSD20066X70	66	MXT70	7	1.25	646
20	CSD20076X40	76	MXT40	4	1	655
20	CSD20076X45	76	MXT45	4.5	1	672
20	CSD20087X35	87	MXT35	3.5	.875	723
20	CSD20087X45	87	MXT45	4.5	1	746
24	CSD24012X30	12	MXT30	3	.875	194
24	CSD24012X35	12	MXT35	3.5	.875	192
24	CSD24012X40	12	MXT40	4	1	202
24	CSD24014X30	14	MXT30	3	.875	204
24	CSD24014X35	14	MXT35	3.5	.875	203
24	CSD24014X40	14	MXT40	4	1	213
24	CSD24014X45	14	MXT45	4.5	1	213
24	CSD24016X30	16	MXT30	3	.875	215
24	CSD24016X35	16	MXT35	3.5	.875	214
24	CSD24016X40	16	MXT40	4	1	223
24	CSD24016X45	16	MXT45	4.5	1	224
24	CSD24016X50	16	MXT50	5	1	233
24	CSD24018X30	18	MXT30	3	.875	225
24	CSD24018X35	18	MXT35	3.5	.875	224
24	CSD24018X40	18	MXT40	4	1	234
24	CSD24018X45	18	MXT45	4.5	1	234
24	CSD24018X50	18	MXT50	5	1	244
24	CSD24020X30	20	MXT30	3	.875	236
24	CSD24020X35	20	MXT35	3.5	.875	235
24	CSD24020X40	20	MXT40	4	1	245
24	CSD24020X45	20	MXT45	4.5	1	245
24	CSD24020X50	20	MXT50	5	1	255
24	CSD24022X30	22	MXT30	3	.875	247
24	CSD24022X35	22	MXT35	3.5	.875	246
24	CSD24022X40	22	MXT40	4	1	255
24	CSD24022X45	22	MXT45	4.5	1	255
24	CSD24022X50	22	MXT50	5	1	265
24	CSD24024X30	24	MXT30	3	.875	257
24	CSD24024X35	24	MXT35	3.5	.875	256
24	CSD24024X40	24	MXT40	4	1	266
24	CSD24024X45	24	MXT45	4.5	1	266
24	CSD24024X50	24	MXT50	5	1	276
24	CSD24026X25	26	MXT25	2.5	.75	262
24	CSD24026X30	26	MXT30	3	.875	268
24	CSD24026X35	26	MXT35	3.5	.875	267
24	CSD24026X40	26	MXT40	4	1	276
24	CSD24026X45	26	MXT45	4.5	1	276
24	CSD24026X50	26	MXT50	5	1	286
24	CSD24028X25	28	MXT25	2.5	.75	301

* General position for Bushing face - for position per application consult *Martin*.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.



Standard Duty Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
24	CSD24028X30	28	MXT30	3	.875	306
24	CSD24028X40	28	MXT40	4	1	314
24	CSD24028X50	28	MXT50	5	1	322
24	CSD24028X60	28	MXT60	6	1.125	337
24	CSD24030X30	30	MXT30	3	.875	317
24	CSD24030X35	30	MXT35	3.5	.875	316
24	CSD24030X40	30	MXT40	4	1	324
24	CSD24030X45	30	MXT45	4.5	1	324
24	CSD24030X50	30	MXT50	5	1	333
24	CSD24032X25	32	MXT25	2.5	.75	343
24	CSD24032X30	32	MXT30	3	.875	327
24	CSD24032X35	32	MXT35	3.5	.875	326
24	CSD24032X40	32	MXT40	4	1	335
24	CSD24032X45	32	MXT45	4.5	1	335
24	CSD24032X50	32	MXT50	5	1	343
24	CSD24032X70	32	MXT70	7	1.25	385
24	CSD24032X80	32	MXT80	8	1.5	424
24	CSD24034X30	34	MXT30	3	.875	338
24	CSD24034X45	34	MXT45	4.5	1	345
24	CSD24036X30	36	MXT30	3	.875	348
24	CSD24036X35	36	MXT35	3.5	.875	347
24	CSD24036X40	36	MXT40	4	1	356
24	CSD24036X45	36	MXT45	4.5	1	356
24	CSD24036X50	36	MXT50	5	1	364
24	CSD24036X60	36	MXT60	6	1.125	378
24	CSD24038X25	38	MXT25	2.5	.75	354
24	CSD24038X30	38	MXT30	3	.875	359
24	CSD24038X35	38	MXT35	3.5	.875	358
24	CSD24038X40	38	MXT40	4	1	366
24	CSD24038X45	38	MXT45	4.5	1	366
24	CSD24038X50	38	MXT50	5	1	375
24	CSD24038X60	38	MXT60	6	1.125	390
24	CSD24038X70	38	MXT70	7	1.25	416
24	CSD24040X25	40	MXT25	2.5	.75	394
24	CSD24040X30	40	MXT30	3	.875	397
24	CSD24040X35	40	MXT35	3.5	.875	396
24	CSD24040X40	40	MXT40	4	1	403
24	CSD24040X45	40	MXT45	4.5	1	409
24	CSD24040X50	40	MXT50	5	1	411
24	CSD24040X60	40	MXT60	6	1.125	423
24	CSD24040X70	40	MXT70	7	1.25	447
24	CSD24042X30	42	MXT30	3	.875	408
24	CSD24042X35	42	MXT35	3.5	.875	407
24	CSD24042X40	42	MXT40	4	1	414
24	CSD24042X45	42	MXT45	4.5	1	414
24	CSD24042X50	42	MXT50	5	1	421
24	CSD24044X25	44	MXT25	2.5	.75	415
24	CSD24044X30	44	MXT30	3	.875	418
24	CSD24044X35	44	MXT35	3.5	.875	417

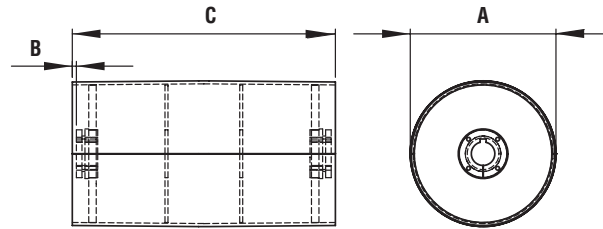
Standard Duty Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
24	CSD24044X40	44	MXT40	4	1	424
24	CSD24044X45	44	MXT45	4.5	1	425
24	CSD24044X50	44	MXT50	5	1	432
24	CSD24044X60	44	MXT60	6	1.125	444
24	CSD24044X70	44	MXT70	7	1.25	468
24	CSD24044X80	44	MXT80	8	1.5	505
24	CSD24046X30	46	MXT30	3	.875	488
24	CSD24046X35	46	MXT35	3.5	.875	487
24	CSD24046X40	46	MXT40	4	1	494
24	CSD24046X45	46	MXT45	4.5	1	495
24	CSD24046X50	46	MXT50	5	1	502
24	CSD24046X60	46	MXT60	6	1.125	514
24	CSD24046X70	46	MXT70	7	1.25	538
24	CSD24051X25	51	MXT25	2.5	.75	518
24	CSD24051X30	51	MXT30	3	.875	521
24	CSD24051X35	51	MXT35	3.5	.875	520
24	CSD24051X40	51	MXT40	4	1	527
24	CSD24051X45	51	MXT45	4.5	1	528
24	CSD24051X50	51	MXT50	5	1	535
24	CSD24051X60	51	MXT60	6	1.125	547
24	CSD24051X70	51	MXT70	7	1.25	571
24	CSD24054X25	54	MXT25	2.5	.75	537
24	CSD24054X30	54	MXT30	3	.875	541
24	CSD24054X35	54	MXT35	3.5	.875	540
24	CSD24054X40	54	MXT40	4	1	547
24	CSD24054X45	54	MXT45	4.5	1	547
24	CSD24054X50	54	MXT50	5	1	554
24	CSD24054X60	54	MXT60	6	1.125	567
24	CSD24054X70	54	MXT70	7	1.25	591
24	CSD24057X25	57	MXT25	2.5	.75	557
24	CSD24057X30	57	MXT30	3	.875	561
24	CSD24057X35	57	MXT35	3.5	.875	560
24	CSD24057X40	57	MXT40	4	1	567
24	CSD24057X45	57	MXT45	4.5	1	567
24	CSD24057X50	57	MXT50	5	1	574
24	CSD24057X60	57	MXT60	6	1.125	587
24	CSD24057X70	57	MXT70	7	1.25	611
24	CSD24057X80	57	MXT80	8	1.5	648
24	CSD24060X30	60	MXT30	3	.875	608
24	CSD24060X35	60	MXT35	3.5	.875	607
24	CSD24060X40	60	MXT40	4	1	613
24	CSD24060X45	60	MXT45	4.5	1	613
24	CSD24060X50	60	MXT50	5	1	618
24	CSD24063X25	63	MXT25	2.5	.75	625
24	CSD24063X30	63	MXT30	3	.875	627
24	CSD24063X35	63	MXT35	3.5	.875	626
24	CSD24063X40	63	MXT40	4	1	633
24	CSD24063X45	63	MXT45	4.5	1	633
24	CSD24063X50	63	MXT50	5	1	638

* General position for Bushing face - for position per application consult *Martin*.

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Drum Pulleys Standard Duty



Standard Duty Drum Pulleys

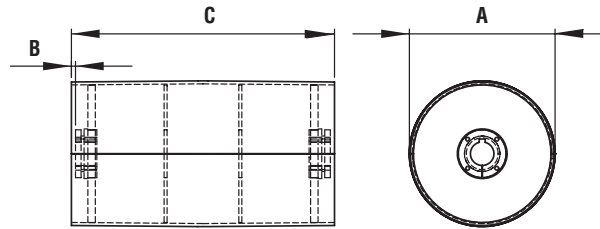
Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
24	CSD24063X60	63	MXT60	6	1.125	649
24	CSD24063X70	63	MXT70	7	1.25	670
24	CSD24063X80	63	MXT80	8	1.5	704
24	CSD24066X30	66	MXT30	3	.875	765
24	CSD24066X35	66	MXT35	3.5	.875	764
24	CSD24066X40	66	MXT40	4	1	769
24	CSD24066X45	66	MXT45	4.5	1	769
24	CSD24066X50	66	MXT50	5	1	773
24	CSD24066X60	66	MXT60	6	1.125	782
24	CSD24066X70	66	MXT70	7	1.25	800
24	CSD24076X45	76	MXT45	4.5	1	849
24	CSD24087X45	87	MXT45	4.5	1	937
30	CSD30012X30	12	MXT30	3	.875	317
30	CSD30012X35	12	MXT35	3.5	.875	316
30	CSD30012X40	12	MXT40	4	1	325
30	CSD30014X30	14	MXT30	3	.875	315
30	CSD30014X35	14	MXT35	3.5	.875	314
30	CSD30014X40	14	MXT40	4	1	324
30	CSD30016X30	16	MXT30	3	.875	332
30	CSD30016X35	16	MXT35	3.5	.875	331
30	CSD30016X40	16	MXT40	4	1	340
30	CSD30016X45	16	MXT45	4.5	1	341
30	CSD30016X50	16	MXT50	5	1	436
30	CSD30018X30	18	MXT30	3	.875	348
30	CSD30018X35	18	MXT35	3.5	.875	347
30	CSD30018X40	18	MXT40	4	1	357
30	CSD30018X45	18	MXT45	4.5	1	357
30	CSD30018X50	18	MXT50	5	1	452
30	CSD30020X30	20	MXT30	3	.875	365
30	CSD30020X35	20	MXT35	3.5	.875	369
30	CSD30020X40	20	MXT40	4	1	374
30	CSD30020X45	20	MXT45	4.5	1	374
30	CSD30020X50	20	MXT50	5	1	469
30	CSD30022X30	22	MXT30	3	.875	382
30	CSD30022X35	22	MXT35	3.5	.875	381
30	CSD30022X40	22	MXT40	4	1	390
30	CSD30022X45	22	MXT45	4.5	1	390
30	CSD30022X50	22	MXT50	5	1	485
30	CSD30024X30	24	MXT30	3	.875	398
30	CSD30024X35	24	MXT35	3.5	.875	397
30	CSD30024X40	24	MXT40	4	1	407
30	CSD30024X45	24	MXT45	4.5	1	407
30	CSD30024X50	24	MXT50	5	1	502
30	CSD30026X30	26	MXT30	3	.875	415
30	CSD30026X35	26	MXT35	3.5	.875	414
30	CSD30026X40	26	MXT40	4	1	423
30	CSD30026X45	26	MXT45	4.5	1	423
30	CSD30026X50	26	MXT50	5	1	518
30	CSD30030X30	30	MXT30	3	.875	493

Standard Duty Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
30	CSD30030X35	30	MXT35	3.5	.875	492
30	CSD30030X40	30	MXT40	4	1	500
30	CSD30030X45	30	MXT45	4.5	1	500
30	CSD30030X50	30	MXT50	5	1	594
30	CSD30032X30	32	MXT30	3	.875	509
30	CSD30032X35	32	MXT35	3.5	.875	508
30	CSD30032X40	32	MXT40	4	1	617
30	CSD30032X45	32	MXT45	4.5	1	517
30	CSD30032X50	32	MXT50	5	1	610
30	CSD30036X30	36	MXT30	3	.875	542
30	CSD30036X35	36	MXT35	3.5	.875	541
30	CSD30036X40	36	MXT40	4	1	550
30	CSD30036X45	36	MXT45	4.5	1	550
30	CSD30036X50	36	MXT50	5	1	643
30	CSD30036X60	36	MXT60	6	1.125	654
30	CSD30038X30	38	MXT30	3	.875	559
30	CSD30038X35	38	MXT35	3.5	.875	558
30	CSD30038X40	38	MXT40	4	1	566
30	CSD30038X45	38	MXT45	4.5	1	566
30	CSD30038X50	38	MXT50	5	1	659
30	CSD30038X60	38	MXT60	6	1.125	670
30	CSD30038X70	38	MXT70	7	.875	692
30	CSD30040X35	40	MXT35	3.5	.875	619
30	CSD30040X40	40	MXT40	4	1	627
30	CSD30040X45	40	MXT45	4.5	1	627
30	CSD30040X50	40	MXT50	5	1	718
30	CSD30040X60	40	MXT60	6	1.125	727
30	CSD30040X70	40	MXT70	7	1.25	746
30	CSD30042X35	42	MXT35	3.5	.875	636
30	CSD30042X40	42	MXT40	4	1	643
30	CSD30042X45	42	MXT45	4.5	1	643
30	CSD30042X50	42	MXT50	5	1	735
30	CSD30044X35	44	MXT35	3.5	.875	652
30	CSD30044X40	44	MXT40	4	1	660
30	CSD30044X45	44	MXT45	4.5	1	660
30	CSD30044X50	44	MXT50	5	1	751
30	CSD30044X60	44	MXT60	6	1.125	760
30	CSD30044X70	44	MXT70	7	1.25	778
30	CSD30044X80	44	MXT80	8	1.5	870
30	CSD30046X30	46	MXT30	3	.875	670
30	CSD30046X35	46	MXT35	3.5	.875	669
30	CSD30046X40	46	MXT40	4	1	676
30	CSD30046X45	46	MXT45	4.5	1	676
30	CSD30046X50	46	MXT50	5	1	767
30	CSD30046X60	46	MXT60	6	1.125	776
30	CSD30046X70	46	MXT70	7	1.25	795
30	CSD30051X30	51	MXT30	3	.875	711
30	CSD30051X35	51	MXT35	3.5	.875	710
30	CSD30051X40	51	MXT40	4	1	717

* General position for Bushing face - for position per application consult *Martin*.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.



Standard Duty Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
30	CSD30051X45	51	MXT45	4.5	1	717
30	CSD30051X50	51	MXT50	5	1	808
30	CSD30051X70	51	MXT70	7	1.25	836
30	CSD30051X80	51	MXT80	8	1.5	868
30	CSD30054X35	54	MXT35	3.5	.875	822
30	CSD30054X40	54	MXT40	4	1	830
30	CSD30054X45	54	MXT45	4.5	1	830
30	CSD30054X50	54	MXT50	5	1	920
30	CSD30054X60	54	MXT60	6	1.125	929
30	CSD30054X80	54	MXT80	8	1.5	979
30	CSD30057X35	57	MXT35	3.5	.875	852
30	CSD30057X40	57	MXT40	4	1	859
30	CSD30057X45	57	MXT45	4.5	1	859
30	CSD30057X50	57	MXT50	5	1	950
30	CSD30057X60	57	MXT60	6	1.125	958
30	CSD30057X70	57	MXT70	7	1.25	977
30	CSD30057X80	57	MXT80	8	1.5	1009
30	CSD30060X35	60	MXT35	3.5	.875	926
30	CSD30060X40	60	MXT40	4	1	932
30	CSD30060X45	60	MXT45	4.5	1	932
30	CSD30060X50	60	MXT50	5	1	1021
30	CSD30063X35	63	MXT35	3.5	.875	956
30	CSD30063X40	63	MXT40	4	1	962
30	CSD30063X45	63	MXT45	4.5	1	962
30	CSD30063X50	63	MXT50	5	1	1050
30	CSD30063X60	63	MXT60	6	1.125	1057
30	CSD30063X70	63	MXT70	7	1.25	1073
30	CSD30063X80	63	MXT80	8	1.5	1102
30	CSD30066X35	66	MXT35	3.5	.875	1036
30	CSD30066X40	66	MXT40	4	1	1041
30	CSD30066X45	66	MXT45	4.5	1	1041
30	CSD30066X50	66	MXT50	5	1	1130
30	CSD30076X80	76	MXT80	8	1.5	1274
36	CSD36012X35	12	MXT35	3.5	.875	470
36	CSD36012X40	12	MXT40	4	1	480
36	CSD36014X35	14	MXT35	3.5	.875	434
36	CSD36014X40	14	MXT40	4	1	434
36	CSD36014X45	14	MXT45	4.5	1	434
36	CSD36016X35	16	MXT35	3.5	.875	444
36	CSD36016X40	16	MXT40	4	1	453
36	CSD36016X45	16	MXT45	4.5	1	454
36	CSD36016X50	16	MXT50	5	1	592
36	CSD36018X35	18	MXT35	3.5	.875	464
36	CSD36018X40	18	MXT40	4	1	473
36	CSD36018X45	18	MXT45	4.5	1	473
36	CSD36018X50	18	MXT50	5	1	612
36	CSD36018X60	18	MXT60	6	1.125	624
36	CSD36020X35	20	MXT35	3.5	.875	484
36	CSD36020X40	20	MXT40	4	1	493

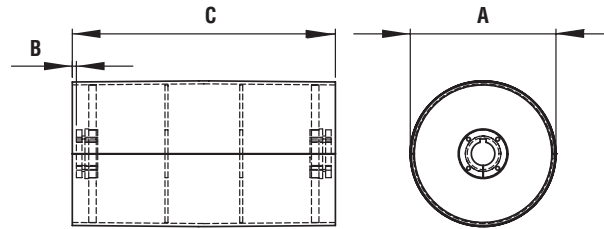
Standard Duty Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
36	CSD36020X45	20	MXT45	4.5	1	493
36	CSD36020X50	20	MXT50	5	1	632
36	CSD36020X60	20	MXT60	6	1.125	644
36	CSD36022X35	22	MXT35	3.5	.875	503
36	CSD36022X40	22	MXT40	4	1	512
36	CSD36022X45	22	MXT45	4.5	1	512
36	CSD36022X50	22	MXT50	5	1	651
36	CSD36022X60	22	MXT60	6	1.125	669
36	CSD36024X35	24	MXT35	3.5	.875	523
36	CSD36024X40	24	MXT40	4	1	533
36	CSD36024X45	24	MXT45	4.5	1	533
36	CSD36024X50	24	MXT50	5	1	671
36	CSD36024X60	24	MXT60	6	1.125	684
36	CSD36026X35	26	MXT35	3.5	.875	543
36	CSD36026X40	26	MXT40	4	1	553
36	CSD36026X45	26	MXT45	4.5	1	553
36	CSD36026X50	26	MXT50	5	1	691
36	CSD36026X60	26	MXT60	6	1.125	704
36	CSD36030X35	30	MXT35	3.5	.875	649
36	CSD36030X40	30	MXT40	4	1	658
36	CSD36030X45	30	MXT45	4.5	1	658
36	CSD36030X50	30	MXT50	5	1	764
36	CSD36030X60	30	MXT60	6	1.125	805
36	CSD36032X35	32	MXT35	3.5	.875	669
36	CSD36032X40	32	MXT40	4	1	678
36	CSD36032X45	32	MXT45	4.5	1	678
36	CSD36032X50	32	MXT50	5	1	814
36	CSD36032X60	32	MXT60	6	1.125	825
36	CSD36036X35	36	MXT35	3.5	.875	709
36	CSD36036X40	36	MXT40	4	1	717
36	CSD36036X45	36	MXT45	4.5	1	717
36	CSD36036X50	36	MXT50	5	1	854
36	CSD36036X60	36	MXT60	6	1.125	864
36	CSD36038X35	38	MXT35	3.5	.875	729
36	CSD36038X40	38	MXT40	4	1	737
36	CSD36038X45	38	MXT45	4.5	1	737
36	CSD36038X50	38	MXT50	5	1	873
36	CSD36038X60	38	MXT60	6	1.125	884
36	CSD36040X35	40	MXT35	3.5	.875	815
36	CSD36040X40	40	MXT40	4	1	822
36	CSD36040X45	40	MXT45	4.5	1	822
36	CSD36040X50	40	MXT50	5	1	957
36	CSD36040X60	40	MXT60	6	1.125	966
36	CSD36042X35	42	MXT35	3.5	.875	835
36	CSD36042X40	42	MXT40	4	1	842
36	CSD36042X45	42	MXT45	4.5	1	842
36	CSD36042X50	42	MXT50	5	1	977
36	CSD36042X60	42	MXT60	6	1.125	985
36	CSD36044X35	44	MXT35	3.5	.875	854

* General position for Bushing face - for position per application consult *Martin*.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.

Drum Pulleys Standard Duty



Standard Duty Drum Pulleys

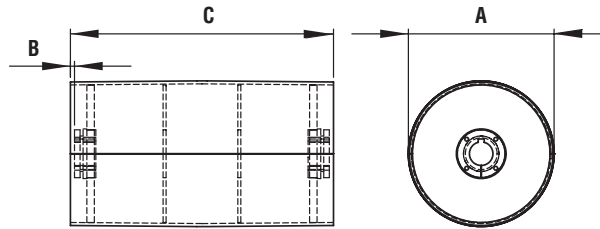
Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
36	CSD36044X40	44	MXT40	4	1	862
36	CSD36044X50	44	MXT50	5	1	996
36	CSD36044X60	44	MXT60	6	1.125	1005
36	CSD36044X70	44	MXT70	7	1.25	1024
36	CSD36044X80	44	MXT80	8	1.5	1055
36	CSD36046X35	46	MXT35	3.5	.875	874
36	CSD36046X40	46	MXT40	4	1	882
36	CSD36046X45	46	MXT45	4.5	1	882
36	CSD36046X50	46	MXT50	5	1	1016
36	CSD36046X60	46	MXT60	6	1.125	1025
36	CSD36051X35	51	MXT35	3.5	.875	924
36	CSD36051X40	51	MXT40	4	1	931
36	CSD36051X45	51	MXT45	4.5	1	931
36	CSD36051X50	51	MXT50	5	1	1065
36	CSD36051X60	51	MXT60	6	1.125	1074
36	CSD36051X70	51	MXT70	7	1.25	1093
36	CSD36051X80	51	MXT80	8	1.5	1124
36	CSD36054X35	54	MXT35	3.5	.875	1059
36	CSD36054X40	54	MXT40	4	1	1066
36	CSD36054X45	54	MXT45	4.5	1	1066
36	CSD36054X50	54	MXT50	5	1	1199
36	CSD36054X60	54	MXT60	6	1.125	1208
36	CSD36057X35	57	MXT35	3.5	.875	1094
36	CSD36057X40	57	MXT40	4	1	1102
36	CSD36057X45	57	MXT45	4.5	1	1102
36	CSD36057X50	57	MXT50	5	1	1235
36	CSD36057X60	57	MXT60	6	1.125	1243
36	CSD36057X70	57	MXT70	7	1.25	1262
36	CSD36057X80	57	MXT80	8	1.5	1294
36	CSD36060X35	60	MXT35	3.5	.875	1195
36	CSD36060X40	60	MXT40	4	1	1202
36	CSD36060X45	60	MXT45	4.5	1	1202
36	CSD36060X50	60	MXT50	5	1	1333
36	CSD36063X35	63	MXT35	3.5	.875	1231
36	CSD36063X40	63	MXT40	4	1	1237
36	CSD36063X45	63	MXT45	4.5	1	1237
36	CSD36063X50	63	MXT50	5	1	1368
36	CSD36063X60	63	MXT60	6	1.125	1375
36	CSD36063X70	63	MXT70	7	1.25	1391
36	CSD36063X80	63	MXT80	8	1.5	1420
36	CSD36066X35	66	MXT35	3.5	.875	1597
36	CSD36066X40	66	MXT40	4	1	1602
36	CSD36066X45	66	MXT45	4.5	1	1602
36	CSD36066X50	66	MXT50	5	1	1731
36	CSD36066X60	66	MXT60	6	1.125	1736
42	CSD42018X40	18	MXT40	4	1	645
42	CSD42018X45	18	MXT45	4.5	1	645
42	CSD42018X50	18	MXT50	5	1	1805
42	CSD42018X60	18	MXT60	6	1.125	1805

Standard Duty Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
42	CSD42020X40	20	MXT40	4	1	1809
42	CSD42020X45	20	MXT45	4.5	1	1817
42	CSD42020X50	20	MXT50	5	1	1949
42	CSD42020X60	20	MXT60	6	1.125	1949
42	CSD42022X40	22	MXT40	4	1	1951
42	CSD42022X45	22	MXT45	4.5	1	1958
42	CSD42022X50	22	MXT50	5	1	2004
42	CSD42022X60	22	MXT60	6	1.125	2004
42	CSD42024X40	24	MXT40	4	1	2007
42	CSD42024X45	24	MXT45	4.5	1	2013
42	CSD42024X50	24	MXT50	5	1	2236
42	CSD42024X60	24	MXT60	6	1.125	2236
42	CSD42026X40	26	MXT40	4	1	2236
42	CSD42026X45	26	MXT45	4.5	1	2239
42	CSD42026X50	26	MXT50	5	1	799
42	CSD42026X60	26	MXT60	6	1.125	955
42	CSD42030X40	30	MXT40	4	1	903
42	CSD42030X45	30	MXT45	4.5	1	903
42	CSD42030X50	30	MXT50	5	1	1089
42	CSD42030X60	30	MXT60	6	1.125	1100
42	CSD42032X40	32	MXT40	4	1	931
42	CSD42032X45	32	MXT45	4.5	1	931
42	CSD42032X50	32	MXT50	5	1	1117
42	CSD42032X60	32	MXT60	6	1.125	1128
42	CSD42036X40	36	MXT40	4	1	986
42	CSD42036X45	36	MXT45	4.5	1	986
42	CSD42036X50	36	MXT50	5	1	1172
42	CSD42036X60	36	MXT60	6	1.125	1183
42	CSD42038X40	38	MXT40	4	1	1014
42	CSD42038X45	38	MXT45	4.5	1	1014
42	CSD42038X50	38	MXT50	5	1	1200
42	CSD42038X60	38	MXT60	6	1.125	1211
42	CSD42040X40	40	MXT40	4	1	1132
42	CSD42040X45	40	MXT45	4.5	1	1132
42	CSD42040X50	40	MXT50	5	1	1316
42	CSD42040X60	40	MXT60	6	1.125	1325
42	CSD42042X40	42	MXT40	4	1	1160
42	CSD42042X45	42	MXT45	4.5	1	1160
42	CSD42042X50	42	MXT50	5	1	1344
42	CSD42042X60	42	MXT60	6	1.125	1353
42	CSD42044X40	44	MXT40	4	1	1187
42	CSD42044X45	44	MXT45	4.5	1	1188
42	CSD42044X50	44	MXT50	5	1	1372
42	CSD42044X60	44	MXT60	6	1.125	1380
42	CSD42046X40	46	MXT40	4	1	1215
42	CSD42046X45	46	MXT45	4.5	1	1215
42	CSD42046X50	46	MXT50	5	1	1399
42	CSD42046X60	46	MXT60	6	1.125	1407
42	CSD42051X40	51	MXT40	4	1	1285

* General position for Bushing face - for position per application consult *Martin*.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.



Standard Duty Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
42	CSD42051X45	51	MXT45	4.5	1	1285
42	CSD42051X50	51	MXT50	5	1	1469
42	CSD42051X60	51	MXT60	6	1.125	1477
42	CSD42054X40	54	MXT40	4	1	1506
42	CSD42054X45	54	MXT45	4.5	1	1506
42	CSD42054X50	54	MXT50	5	1	1510
42	CSD42054X60	54	MXT60	6	1.125	1519
42	CSD42057X40	57	MXT40	4	1	1805
42	CSD42057X45	57	MXT45	4.5	1	1805
42	CSD42057X50	57	MXT50	5	1	1809
42	CSD42057X60	57	MXT60	6	1.125	1817
42	CSD42060X40	60	MXT40	4	1	1949
42	CSD42060X45	60	MXT45	4.5	1	1949
42	CSD42060X50	60	MXT50	5	1	1951
42	CSD42060X60	60	MXT60	6	1.125	1958
42	CSD42063X40	63	MXT40	4	1	2004
42	CSD42063X45	63	MXT45	4.5	1	2004
42	CSD42063X50	63	MXT50	5	1	2007
42	CSD42063X60	63	MXT60	6	1.125	2013
42	CSD42066X40	66	MXT40	4	1	2236
42	CSD42066X45	66	MXT45	4.5	1	2236
42	CSD42066X50	66	MXT50	5	1	2236
42	CSD42066X60	66	MXT60	6	1.125	2239
48	CSD48018X40	18	MXT40	4	1	799
48	CSD48018X45	18	MXT45	4.5	1	800
48	CSD48018X50	18	MXT50	5	1	1047
48	CSD48018X60	18	MXT60	6	1.125	1060
48	CSD48020X40	20	MXT40	4	1	831
48	CSD48020X45	20	MXT45	4.5	1	831
48	CSD48020X50	20	MXT50	5	1	1079
48	CSD48020X60	20	MXT60	6	1.125	1091
48	CSD48022X40	22	MXT40	4	1	862
48	CSD48022X45	22	MXT45	4.5	1	862
48	CSD48022X50	22	MXT50	5	1	1110
48	CSD48022X60	22	MXT60	6	1.125	1123
48	CSD48024X40	24	MXT40	4	1	895
48	CSD48024X45	24	MXT45	4.5	1	895
48	CSD48024X50	24	MXT50	5	1	1142
48	CSD48024X60	24	MXT60	6	1.125	1155
48	CSD48026X40	26	MXT40	4	1	927
48	CSD48026X45	26	MXT45	4.5	1	927
48	CSD48026X50	26	MXT50	5	1	1174
48	CSD48026X60	26	MXT60	6	1.125	1186
48	CSD48030X40	30	MXT40	4	1	1110
48	CSD48030X45	30	MXT45	4.5	1	1110
48	CSD48030X50	30	MXT50	5	1	1356
48	CSD48030X60	30	MXT60	6	1.125	1366
48	CSD48032X40	32	MXT40	4	1	1142
48	CSD48032X45	32	MXT45	4.5	1	1142

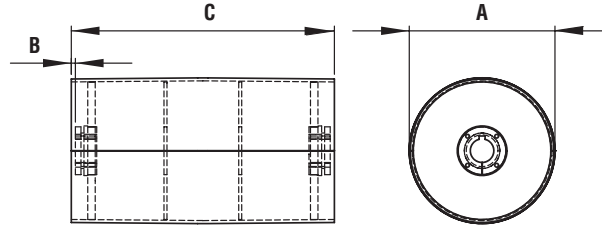
Standard Duty Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
48	CSD48032X50	32	MXT50	5	1	1387
48	CSD48032X60	32	MXT60	6	1.125	1389
48	CSD48036X45	36	MXT45	4.5	1	1206
48	CSD48036X50	36	MXT50	5	1	1451
48	CSD48036X60	36	MXT60	6	1.125	1461
48	CSD48038X45	38	MXT45	4.5	1	1237
48	CSD48038X50	38	MXT50	5	1	1482
48	CSD48038X60	38	MXT60	6	1.125	1493
48	CSD48040X45	40	MXT45	4.5	1	1389
48	CSD48040X50	40	MXT50	5	1	1632
48	CSD48040X60	40	MXT60	6	1.125	1641
48	CSD48042X45	42	MXT45	4.5	1	1420
48	CSD48042X50	42	MXT50	5	1	1664
48	CSD48042X60	42	MXT60	6	1.125	1672
48	CSD48044X45	44	MXT45	4.5	1	1452
48	CSD48044X50	44	MXT50	5	1	1695
48	CSD48044X60	44	MXT60	6	1.125	1704
48	CSD48046X45	46	MXT45	4.5	1	1958
48	CSD48046X50	46	MXT50	5	1	1962
48	CSD48046X60	46	MXT60	6	1.125	1971
48	CSD48051X45	51	MXT45	4.5	1	2064
48	CSD48051X50	51	MXT50	5	1	2068
48	CSD48051X60	51	MXT60	6	1.125	2076
48	CSD48054X45	54	MXT45	4.5	1	2127
48	CSD48054X50	54	MXT50	5	1	2131
48	CSD48054X60	54	MXT60	6	1.125	2140
48	CSD48057X45	57	MXT45	4.5	1	2190
48	CSD48057X50	57	MXT50	5	1	2195
48	CSD48057X60	57	MXT60	6	1.125	2203
48	CSD48060X45	60	MXT45	4.5	1	2372
48	CSD48060X50	60	MXT50	5	1	2374
48	CSD48060X60	60	MXT60	6	1.125	2381
48	CSD48063X45	63	MXT45	4.5	1	2435
48	CSD48063X50	63	MXT50	5	1	2438
48	CSD48063X60	63	MXT60	6	1.125	2444
48	CSD48066X45	66	MXT45	4.5	1	2629
48	CSD48066X50	66	MXT50	5	1	2630
48	CSD48066X60	66	MXT60	6	1.125	2635
54	CSD54018X45	18	MXT45	4.5	1	1376
54	CSD54018X50	18	MXT50	5	1	1383
54	CSD54018X60	18	MXT60	6	1.125	1396
54	CSD54020X45	20	MXT45	4.5	1	1421
54	CSD54020X50	20	MXT50	5	1	1431
54	CSD54020X60	20	MXT60	6	1.125	1444
54	CSD54022X45	22	MXT45	4.5	1	1472
54	CSD54022X50	22	MXT50	5	1	1479
54	CSD54022X60	22	MXT60	6	1.125	1491
54	CSD54024X45	24	MXT45	4.5	1	1519
54	CSD54024X50	24	MXT50	5	1	1526

* General position for Bushing face - for position per application consult *Martin*.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.

Drum Pulleys Standard Duty



Standard Duty Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
54	CSD54024X60	24	MXT60	6	1.125	1539
54	CSD54026X45	26	MXT45	4.5	1	1567
54	CSD54026X50	26	MXT50	5	1	1574
54	CSD54026X60	26	MXT60	6	1.125	1589
54	CSD54030X45	30	MXT45	4.5	1	1814
54	CSD54030X50	30	MXT50	5	1	1820
54	CSD54030X60	30	MXT60	6	1.125	1830
54	CSD54032X45	32	MXT45	4.5	1	1861
54	CSD54032X50	32	MXT50	5	1	1867
54	CSD54032X60	32	MXT60	6	1.125	1878
54	CSD54036X45	36	MXT45	4.5	1	1957
54	CSD54036X50	36	MXT50	5	1	1963
54	CSD54036X60	36	MXT60	6	1.125	1973
54	CSD54038X45	38	MXT45	4.5	1	2005
54	CSD54038X50	38	MXT50	5	1	2010
54	CSD54038X60	38	MXT60	6	1.125	2021
54	CSD54040X45	40	MXT45	4.5	1	2204
54	CSD54040X50	40	MXT50	5	1	2208
54	CSD54040X60	40	MXT60	6	1.125	2217
54	CSD54042X45	42	MXT45	4.5	1	2251
54	CSD54042X50	42	MXT50	5	1	2256
54	CSD54042X60	42	MXT60	6	1.125	2264
54	CSD54044X45	44	MXT45	4.5	1	2294
54	CSD54044X50	44	MXT50	5	1	2303
54	CSD54044X60	44	MXT60	6	1.125	2312
54	CSD54046X45	46	MXT45	4.5	1	2347
54	CSD54046X50	46	MXT50	5	1	2351
54	CSD54046X60	46	MXT60	6	1.125	2359
54	CSD54051X45	51	MXT45	4.5	1	2465
54	CSD54051X50	51	MXT50	5	1	2470
54	CSD54051X60	51	MXT60	6	1.125	2478
54	CSD54054X45	54	MXT45	4.5	1	2537
54	CSD54054X50	54	MXT50	5	1	2541
54	CSD54054X60	54	MXT60	6	1.125	2550
54	CSD54057X45	57	MXT45	4.5	1	2608
54	CSD54057X50	57	MXT50	5	1	2612
54	CSD54057X60	57	MXT60	6	1.125	2621
54	CSD54060X45	60	MXT45	4.5	1	2830
54	CSD54060X50	60	MXT50	5	1	2833
54	CSD54060X60	60	MXT60	6	1.125	2840
54	CSD54063X45	63	MXT45	4.5	1	2901
54	CSD54063X50	63	MXT50	5	1	2904
54	CSD54063X60	63	MXT60	6	1.125	2911
54	CSD54066X45	66	MXT45	4.5	1	3274
54	CSD54066X50	66	MXT50	5	1	3274
54	CSD54066X60	66	MXT60	6	1.125	3277
60	CSD60018X45	18	MXT45	4.5	1	1648
60	CSD60018X50	18	MXT50	5	1	1655
60	CSD60018X60	18	MXT60	6	1.125	1668

Standard Duty Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
60	CSD60020X45	20	MXT45	4.5	1	1701
60	CSD60020X60	20	MXT60	6	1.125	1721
60	CSD60022X45	22	MXT45	4.5	1.125	1754
60	CSD60022X50	22	MXT50	5	1	1761
60	CSD60022X60	22	MXT60	6	1.125	1774
60	CSD60024X45	24	MXT45	4.5	1	1807
60	CSD60024X50	24	MXT50	5	1	1814
60	CSD60024X60	24	MXT60	6	1.125	1827
60	CSD60026X45	26	MXT45	4.5	1	1860
60	CSD60026X50	26	MXT50	5	1	1767
60	CSD60026X60	26	MXT60	6	1.125	1880
60	CSD60030X45	30	MXT45	4.5	1	2155
60	CSD60030X50	30	MXT50	5	1	2161
60	CSD60030X60	30	MXT60	6	1.125	2172
60	CSD60032X45	32	MXT45	4.5	1	2208
60	CSD60032X50	32	MXT50	5	1	2214
60	CSD60032X60	32	MXT60	6	1.125	2225
60	CSD60036X50	36	MXT50	5	1	2320
60	CSD60036X60	36	MXT60	6	1.125	2320
60	CSD60038X50	38	MXT50	5	1	2371
60	CSD60038X60	38	MXT60	6	1.125	2383
60	CSD60040X50	40	MXT50	5	1	2613
60	CSD60040X60	40	MXT60	6	1.125	2622
60	CSD60042X50	42	MXT50	5	1	2666
60	CSD60042X60	42	MXT60	6	1.125	2674
60	CSD60044X50	44	MXT50	5	1	2719
60	CSD60044X60	44	MXT60	6	1.125	2727
60	CSD60046X50	46	MXT50	5	1	2771
60	CSD60046X60	46	MXT60	6	1.125	2780
60	CSD60051X50	51	MXT50	5	1	2904
60	CSD60051X60	51	MXT60	6	1.125	2912
60	CSD60054X50	54	MXT50	5	1	2983
60	CSD60054X60	54	MXT60	6	1.125	2992
60	CSD60057X50	57	MXT50	5	1	3062
60	CSD60057X60	57	MXT60	6	1.125	3071
60	CSD60060X50	60	MXT50	5	1	3328
60	CSD60060X60	60	MXT60	6	1.125	3335
60	CSD60063X50	63	MXT50	5	1	3407
60	CSD60063X60	63	MXT60	6	1.125	3414
60	CSD60066X50	66	MXT50	5	1	3859
60	CSD60066X60	66	MXT60	6	1.125	3862



Custom Shafting Available!

* General position for Bushing face - for position per application consult *Martin*.
BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.

Standard Duty Drum Pulleys (Lagged)

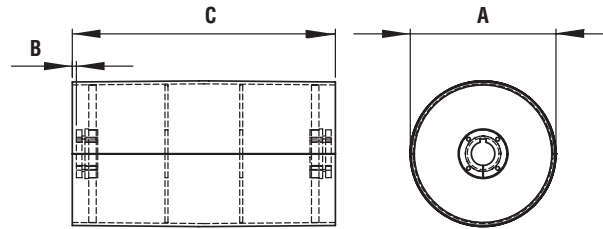
Dia. A	Part Number	Face C	Hub	Max Bore	Setback B*	Lagging	Approx. Weight (lb)
6	CSD06020X25L3H	20	MXT25	2.5	.75	.375	34
6	CSD06032X25L3H	32	MXT25	2.5	.75	.375	52
8	CSD08026X25L3H	26	MXT25	2.5	.75	.375	61
8	CSD08032X25L3H	32	MXT25	2.5	.75	.375	47
10	CSD10026X25L3H	26	MXT25	2.5	.75	.375	86
10	CSD10026X30L3H	26	MXT30	3	.875	.375	85
10	CSD10032X25L3H	32	MXT25	2.5	.75	.375	104
10	CSD10044X25L3H	44	MXT25	2.5	.75	.375	133
10	CSD10044X30L3H	44	MXT30	3	.875	.375	136
10	CSD10051X30L3H	51	MXT30	3	.875	.375	149
12	CSD12020X25L3H	20	MXT25	2.5	.75	.375	104
12	CSD12026X25L3H	26	MXT25	2.5	.75	.375	112
12	CSD12026X30L3H	26	MXT30	3	.875	.375	110
12	CSD12026X30L4H	26	MXT30	3	.875	.5	111
12	CSD12032X25L3H	32	MXT25	2.5	.75	.375	135
12	CSD12032X30L3H	32	MXT30	3	.875	.375	133
12	CSD12032X30L4H	32	MXT30	3	.875	.5	134
12	CSD12032X35L3H	32	MXT35	3.5	.875	.375	142
12	CSD12038X25L3H	38	MXT25	2.5	.75	.375	151
12	CSD12038X30L3H	38	MXT30	3	.875	.375	149
12	CSD12038X35L3H	38	MXT35	3.5	.875	.375	159
12	CSD12044X25L3H	44	MXT25	2.5	.75	.375	174
12	CSD12044X30L3H	44	MXT30	3	.875	.375	172
12	CSD12051X25L3H	51	MXT25	2.5	.75	.375	192
12	CSD12051X30L3H	51	MXT30	3	.875	.375	191
12	CSD12051X35L3H	51	MXT35	3.5	.875	.375	200
12	CSD12063X30L3H	63	MXT30	3	.875	.375	312
14	CSD14020X30L3H	20	MXT30	3	.875	.375	104
14	CSD14026X25L3H	26	MXT25	2.5	.75	.375	123
14	CSD14026X30L3H	26	MXT30	3	.875	.375	122
14	CSD14026X35L3H	26	MXT35	3.5	.875	.375	121
14	CSD14032X25L3H	32	MXT25	2.5	.75	.375	143
14	CSD14032X30L3H	32	MXT30	3	.875	.375	149
14	CSD14038X25L3H	38	MXT25	2.5	.75	.375	162
14	CSD14038X30L3H	38	MXT30	3	.875	.375	168
14	CSD14038X35L3H	38	MXT35	3.5	.875	.375	167
14	CSD14044X30L3H	44	MXT30	3	.875	.375	194
14	CSD14044X35L3H	44	MXT35	3.5	.875	.375	193
14	CSD14044X40L3H	44	MXT40	4	1	.375	205
14	CSD14051X30L3H	51	MXT30	3	.875	.375	216
14	CSD14051X35L3H	51	MXT35	3.5	.875	.375	215
14	CSD14051X40L3H	51	MXT40	4	1	.375	227
14	CSD14063X30L3H	63	MXT30	3	.875	.375	357
16	CSD16020X30L3H	20	MXT30	3	.875	.375	122
16	CSD16020X35L4H	20	MXT35	3.5	.875	.5	122
16	CSD16026X25L3H	26	MXT25	2.5	.75	.375	135
16	CSD16026X30L3H	26	MXT30	3	.875	.375	136
16	CSD16026X35L3H	26	MXT35	3.5	.875	.375	143
16	CSD16026X40L2H	26	MXT40	4	1	.25	154
16	CSD16026X40L3H	26	MXT40	4	1	.375	154
16	CSD16026X50L3H	26	MXT50	5	1	.375	165
16	CSD16032X25L3H	32	MXT25	3	.75	.375	170
16	CSD16032X30L3H	32	MXT30	3	.875	.375	176
16	CSD16032X35L3H	32	MXT35	3.5	.875	.375	175
16	CSD16032X40L3H	32	MXT40	4	1	.375	185
16	CSD16038X25L3H	38	MXT25	2.5	.75	.375	152
16	CSD16038X30L3H	38	MXT30	3	.875	.375	198
16	CSD16038X35L3H	38	MXT35	3.5	.875	.375	197

Standard Duty Drum Pulleys (Lagged)

Dia. A	Part Number	Face C	Hub	Max Bore	Setback B*	Lagging	Approx. Weight (lb)
16	CSD16038X40L3H	38	MXT40	4	1	.375	206
16	CSD16044X30L3H	44	MXT30	3	.875	.375	230
16	CSD16044X35L3H	44	MXT35	3.5	.875	.375	229
16	CSD16051X35L3H	51	MXT35	3.5	.875	.375	298
16	CSD16051X40L3H	51	MXT40	4	1	.375	307
16	CSD16063X35L3H	63	MXT35	3.5	.875	.375	362
18	CSD18026X30L3H	26	MXT30	3	.875	.375	167
18	CSD18026X35L3H	26	MXT35	3.5	.875	.375	172
18	CSD18026X40L3H	26	MXT40	4	1	.375	176
18	CSD18026X45L3H	26	MXT45	4.5	1	.375	190
18	CSD18032X30L3H	32	MXT30	3	.875	.375	205
18	CSD18032X35L3H	32	MXT35	3.5	.875	.375	204
18	CSD18032X40L3H	32	MXT40	4	1	.375	214
18	CSD18032X45L3H	32	MXT45	4.5	1	.375	227
18	CSD18038X30L3H	38	MXT30	3	.875	.375	230
18	CSD18038X35L3H	38	MXT35	3.5	.875	.375	229
18	CSD18038X40L3H	38	MXT40	4	1	.375	238
18	CSD18044X30L3H	44	MXT30	3	.875	.375	268
18	CSD18044X35L3H	44	MXT35	3.5	.875	.375	267
18	CSD18044X40L3H	44	MXT40	4	1	.375	276
18	CSD18051X45L3H	51	MXT45	4.5	1	.375	278
20	CSD20026X30L3H	26	MXT30	3	.875	.375	191
20	CSD20026X35L3H	26	MXT35	3.5	.875	.375	190
20	CSD20026X35L4H	26	MXT35	3.5	.875	.5	191
20	CSD20026X40L3H	26	MXT40	4	1	.375	201
20	CSD20026X45L3H	26	MXT45	4.5	1	.375	218
20	CSD20032X30L3H	32	MXT30	3	.875	.375	236
20	CSD20032X35L3H	32	MXT35	3.5	.875	.375	235
20	CSD20032X35L4H	32	MXT35	3.5	.875	.5	236
20	CSD20032X40L3H	32	MXT40	4	1	.375	236
20	CSD20032X45L3H	32	MXT45	4.5	1	.375	262
20	CSD20038X30L3H	38	MXT30	3	.875	.375	263
20	CSD20038X35L3H	38	MXT35	3.5	.875	.375	262
20	CSD20038X35L4H	38	MXT35	3.5	.875	.5	264
20	CSD20038X40L3H	38	MXT40	4	1	.375	272
20	CSD20044X40L4H	44	MXT40	4	1	.5	317
20	CSD20044X40L3H	44	MXT40	4	1	.375	316
20	CSD20051X40L3H	51	MXT40	4	1	.375	403
20	CSD20051X45L4H	51	MXT45	4.5	1	.5	421
24	CSD24026X35L3H	26	MXT35	3.5	.875	.375	270
24	CSD24026X35L4H	26	MXT35	3.5	.875	.5	271
24	CSD24026X40L3H	26	MXT40	4	1	.375	280
24	CSD24026X45L3H	26	MXT45	4.5	1	.375	280
24	CSD24032X30L3H	32	MXT30	3	.875	.375	331
24	CSD24032X35L3H	32	MXT35	3.5	.875	.375	330
24	CSD24032X35L4H	32	MXT35	3.5	.875	.5	332
24	CSD24032X40L3H	32	MXT40	4	1	.375	339
24	CSD24032X45L3H	32	MXT45	4.5	1	.375	339
24	CSD24038X35L3H	38	MXT35	3.5	.875	.375	363
24	CSD24038X35L4H	38	MXT35	3.5	.875	.5	364
24	CSD24038X40L3H	38	MXT40	4	1	.375	371
24	CSD24038X45L3H	38	MXT45	4.5	1	.375	371
24	CSD24044X40L3H	44	MXT40	4	1	.375	430
24	CSD24044X40L4H	44	MXT40	4	1	.5	432
24	CSD24044X45L3H	44	MXT45	4.5	1	.375	430
24	CSD24051X40L3H	51	MXT40	4	1	.375	534
24	CSD24051X45L4H	51	MXT45	4.5	1	.5	536

* General position for Bushing face - for position per application consult *Martin*.
BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.

Drum Pulleys Standard Duty — M-HE Bushed



Standard Duty Drum Pulleys — M-HE Bushed

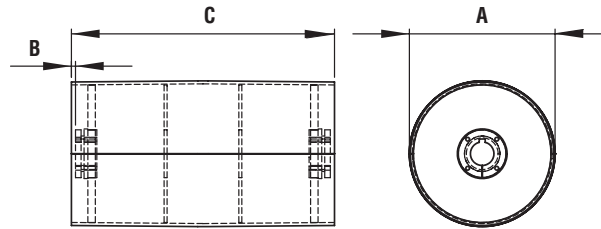
Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
6	CSD06012H25	12	M-HE25	2.5	.75	26
6	CSD06014H25	14	M-HE25	2.5	.75	29
6	CSD06018H25	18	M-HE25	2.5	.75	34
6	CSD06020H25	20	M-HE25	2.5	.75	37
6	CSD06024H25	24	M-HE25	2.5	.75	39
6	CSD06026H25	26	M-HE25	2.5	.75	45
6	CSD06030H25	30	M-HE25	2.5	.75	51
6	CSD06032H25	32	M-HE25	2.5	.75	53
6	CSD06036H25	36	M-HE25	2.5	.75	59
6	CSD06038H25	38	M-HE25	2.5	.75	61
6	CSD06040H25	40	M-HE25	2.5	.75	65
6	CSD06044H25	44	M-HE25	2.5	.75	70
6	CSD06051H25	51	M-HE25	2.5	.75	80
6	CSD06063H25	63	M-HE25	2.5	.75	69
8	CSD08012H25	12	M-HE25	2.5	.75	33
8	CSD08014H25	14	M-HE25	2.5	.75	36
8	CSD08018H25	18	M-HE25	2.5	.75	43
8	CSD08020H25	20	M-HE25	2.5	.75	76
8	CSD08020H35	20	M-HE35	3.5	.875	47
8	CSD08024H25	24	M-HE25	2.5	.75	53
8	CSD08026H25	26	M-HE25	2.5	.75	58
8	CSD08032H25	32	M-HE25	2.5	.75	71
8	CSD08038H25	38	M-HE25	2.5	.75	81
8	CSD08038H30	38	M-HE30	3	.875	88
8	CSD08044H25	44	M-HE25	2.5	.75	80
8	CSD08044H30	44	M-HE30	3	.875	101
8	CSD08051H25	51	M-HE25	2.5	.75	107
8	CSD08051H30	51	M-HE30	3	.875	113
8	CSD08063H30	63	M-HE30	3	.875	135
10	CSD10010H25	10	M-HE25	2.5	.75	39
10	CSD10014H25	14	M-HE25	2.5	.75	41
10	CSD10018H25	18	M-HE25	2.5	.75	57
10	CSD10020H25	20	M-HE25	2.5	.75	62
10	CSD10020H35	20	M-HE35	3.5	.875	68
10	CSD10022H25	22	M-HE25	2.5	.75	66
10	CSD10022H35	22	M-HE35	3.5	.875	73
10	CSD10024H25	24	M-HE25	2.5	.75	70
10	CSD10026H25	26	M-HE25	2.5	.75	75
10	CSD10026H30	26	M-HE30	3	.875	82
10	CSD10028H25	28	M-HE25	2.5	.75	83
10	CSD10030H25	30	M-HE25	2.5	.75	88
10	CSD10032H25	32	M-HE25	2.5	.75	92
10	CSD10032H30	32	M-HE30	3	.875	99
10	CSD10038H25	38	M-HE25	2.5	.75	106
10	CSD10038H30	38	M-HE30	3	.875	113
10	CSD10044H25	44	M-HE25	2.5	.75	123
10	CSD10044H30	44	M-HE30	3	.875	130
10	CSD10044H35	44	M-HE35	3.5	.875	128
10	CSD10051H25	51	M-HE25	2.5	.75	139

Standard Duty Drum Pulleys — M-HE Bushed

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
10	CSD10051H30	51	M-HE30	3	.875	145
10	CSD10054H25	54	M-HE25	2.5	.75	145
10	CSD10060H30	60	M-HE30	3	.875	165
10	CSD10063H25	63	M-HE25	2.5	.75	165
10	CSD10063H30	63	M-HE30	3	.875	172
10	CSD10063H35	63	M-HE35	3.5	.875	170
12	CSD12012H25	12	M-HE25	2.5	.75	56
12	CSD12014H25	14	M-HE25	2.5	.75	61
12	CSD12014H30	14	M-HE30	3	.875	69
12	CSD12018H25	18	M-HE25	2.5	.75	72
12	CSD12018H30	18	M-HE30	3	.875	80
12	CSD12020H25	20	M-HE25	2.5	.75	77
12	CSD12020H30	20	M-HE30	3	.875	85
12	CSD12022H25	22	M-HE25	2.5	.75	83
12	CSD12024H25	24	M-HE25	2.5	.75	88
12	CSD12026H25	26	M-HE25	2.5	.75	93
12	CSD12026H30	26	M-HE30	3	.875	101
12	CSD12026H35	26	M-HE35	3.5	.875	100
12	CSD12028H25	28	M-HE25	2.5	.75	105
12	CSD12028H30	28	M-HE30	3	.875	112
12	CSD12030H25	30	M-HE25	2.5	.75	110
12	CSD12032H25	32	M-HE25	2.5	.75	115
12	CSD12032H30	32	M-HE30	3	.875	123
12	CSD12032H35	32	M-HE35	3.5	.875	121
12	CSD12032H45	32	M-HE45	4.5	1	137
12	CSD12034H30	34	M-HE30	3	.875	128
12	CSD12038H25	38	M-HE25	2.5	.75	131
12	CSD12038H30	38	M-HE30	3	.875	138
12	CSD12038H35	38	M-HE35	3.5	.875	137
12	CSD12040H25	40	M-HE25	2.5	.75	142
12	CSD12040H30	40	M-HE30	3	.875	150
12	CSD12044H25	44	M-HE25	2.5	.75	153
12	CSD12044H30	44	M-HE30	3	.875	160
12	CSD12044H35	44	M-HE35	3.5	.875	158
12	CSD12051H25	51	M-HE25	2.5	.75	171
12	CSD12051H30	51	M-HE30	3	.875	179
12	CSD12051H35	51	M-HE35	3.5	.875	177
12	CSD12057H25	57	M-HE25	2.5	.75	262
12	CSD12057H30	57	M-HE30	3	.875	269
12	CSD12057H35	57	M-HE35	3.5	.875	267
12	CSD12057H45	57	M-HE45	4.5	1	282
12	CSD12063H25	63	M-HE25	2.5	.75	291
12	CSD12063H30	63	M-HE30	3	.875	298
12	CSD12063H40	63	M-HE40	4	1	307
14	CSD14012H40	12	M-HE40	4	1	86
14	CSD14014H25	14	M-HE25	2.5	.75	76
14	CSD14020H25	20	M-HE25	2.5	.75	94
14	CSD14020H30	20	M-HE30	3	.875	102
14	CSD14026H25	26	M-HE25	2.5	.75	113

* General position for Bushing face - for position per application consult *Martin*.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.



Standard Duty Drum Pulleys — M-HE Bushed

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
14	CSD14026H30	26	M-HE30	3	.875	121
14	CSD14026H35	26	M-HE35	3.5	.875	120
14	CSD14028H30	28	M-HE30	3	.875	134
14	CSD14028H35	28	M-HE35	3.5	.875	133
14	CSD14030H25	30	M-HE25	2.5	.75	134
14	CSD14032H25	32	M-HE25	2.5	.75	140
14	CSD14032H30	32	M-HE30	3	.875	146
14	CSD14038H25	38	M-HE25	2.5	.75	117
14	CSD14038H30	38	M-HE30	3	.875	165
14	CSD14038H35	38	M-HE35	3.5	.875	117
14	CSD14038H40	38	M-HE40	4	1	174
14	CSD14044H25	44	M-HE25	2.5	.75	186
14	CSD14044H30	44	M-HE30	3	.875	191
14	CSD14044H35	44	M-HE35	3.5	.875	190
14	CSD14046H30	46	M-HE30	3	.875	197
14	CSD14051H25	51	M-HE25	2.5	.75	208
14	CSD14051H30	51	M-HE30	3	.875	212
14	CSD14051H35	51	M-HE35	3.5	.875	212
14	CSD14051H40	51	M-HE40	4	1	222
14	CSD14051H45	51	M-HE45	4.5	1	228
14	CSD14054H25	54	M-HE25	2.5	.75	299
14	CSD14057H30	57	M-HE30	3	.875	318
14	CSD14057H35	57	M-HE35	3.5	.875	317
14	CSD14057H40	57	M-HE40	4	1	327
14	CSD14057H45	57	M-HE45	4.5	1	334
14	CSD14063H25	63	M-HE25	2.5	.75	349
14	CSD14063H30	63	M-HE30	3	.875	352
14	CSD14063H35	63	M-HE35	3.5	.875	352
14	CSD14063H40	63	M-HE40	4	1	362
16	CSD16014H30	14	M-HE30	3	.875	99
16	CSD16020H25	20	M-HE25	2.5	.75	113
16	CSD16020H30	20	M-HE30	3	.875	121
16	CSD16022H25	22	M-HE25	2.5	.75	120
16	CSD16022H35	22	M-HE35	3.5	.875	127
16	CSD16024H30	24	M-HE30	3	.875	135
16	CSD16026H25	26	M-HE25	2.5	.75	134
16	CSD16026H30	26	M-HE30	3	.875	142
16	CSD16026H35	26	M-HE35	3.5	.875	141
16	CSD16026H50	26	M-HE50	5	1	169
16	CSD16028H25	28	M-HE25	2.5	.75	153
16	CSD16028H30	28	M-HE30	3	.875	159
16	CSD16028H35	28	M-HE35	3.5	.875	159
16	CSD16030H25	30	M-HE25	2.5	.75	160
16	CSD16032H25	32	M-HE25	2.5	.75	167
16	CSD16032H30	32	M-HE30	3	.875	174
16	CSD16032H35	32	M-HE35	3.5	.875	173
16	CSD16032H40	32	M-HE40	4	1	181
16	CSD16032H45	32	M-HE45	4.5	1	188
16	CSD16032H50	32	M-HE50	5	1	200

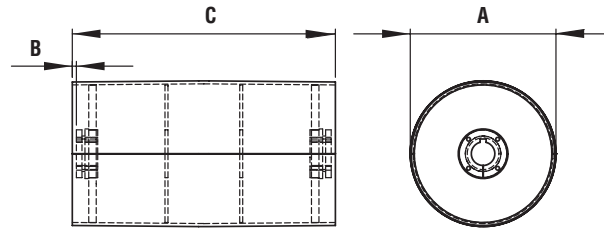
Standard Duty Drum Pulleys — M-HE Bushed

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
16	CSD16032H60	32	M-HE60	6	1.125	228
16	CSD16034H35	34	M-HE35	3.5	.875	180
16	CSD16034H40	34	M-HE40	4	1	188
16	CSD16038H25	38	M-HE25	2.5	.75	188
16	CSD16038H30	38	M-HE30	3	.875	195
16	CSD16038H35	38	M-HE35	3.5	.875	194
16	CSD16038H40	38	M-HE40	4	1	203
16	CSD16038H50	38	M-HE50	5	1	221
16	CSD16040H25	40	M-HE25	2.5	.75	207
16	CSD16040H30	40	M-HE30	3	.875	212
16	CSD16040H40	40	M-HE40	4	1	219
16	CSD16040H45	40	M-HE45	4.5	1	225
16	CSD16040H50	40	M-HE50	5	1	238
16	CSD16044H25	44	M-HE25	2.5	.75	221
16	CSD16044H30	44	M-HE30	3	.875	226
16	CSD16044H35	44	M-HE35	3.5	.875	226
16	CSD16044H40	44	M-HE40	4	1	233
16	CSD16046H35	46	M-HE35	3.5	.875	233
16	CSD16051H25	51	M-HE25	2.5	.75	290
16	CSD16051H30	51	M-HE30	3	.875	295
16	CSD16051H35	51	M-HE35	3.5	.875	294
16	CSD16051H40	51	M-HE40	4	1	302
16	CSD16051H50	51	M-HE50	5	1	321
16	CSD16057H30	57	M-HE30	3	.875	322
16	CSD16057H35	57	M-HE35	3.5	.875	321
16	CSD16057H40	57	M-HE40	4	1	328
16	CSD16057H45	57	M-HE45	4.5	1	335
16	CSD16060H30	60	M-HE30	3	.875	345
16	CSD16063H25	63	M-HE25	2.5	.75	355
16	CSD16063H30	63	M-HE30	3	.875	358
16	CSD16063H35	63	M-HE35	3.5	.875	357
16	CSD16063H40	63	M-HE40	4	1	364
16	CSD16063H45	63	M-HE45	4.5	1	370
16	CSD16063H50	63	M-HE50	5	1	383
18	CSD18016H25	16	M-HE25	2.5	.75	117
18	CSD18016H35	16	M-HE35	3.5	.875	124
18	CSD18016H40	16	M-HE40	4	1	134
18	CSD18016H45	16	M-HE45	4.5	1	154
18	CSD18024H25	24	M-HE25	2.5	.75	149
18	CSD18026H25	26	M-HE25	2.5	.75	157
18	CSD18026H30	26	M-HE30	3	.875	164
18	CSD18026H35	26	M-HE35	3.5	.875	163
18	CSD18026H40	26	M-HE40	4	1	173
18	CSD18026H50	26	M-HE50	5	1	203
18	CSD18028H25	28	M-HE25	2.5	.75	180
18	CSD18028H30	28	M-HE30	3	.875	186
18	CSD18028H35	28	M-HE35	3.5	.875	186
18	CSD18028H40	28	M-HE40	4	1	194
18	CSD18030H25	30	M-HE25	2.5	.75	188

* General position for Bushing face - for position per application consult *Martin*.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.

Drum Pulleys Standard Duty — M-HE Bushed



Standard Duty Drum Pulleys — M-HE Bushed

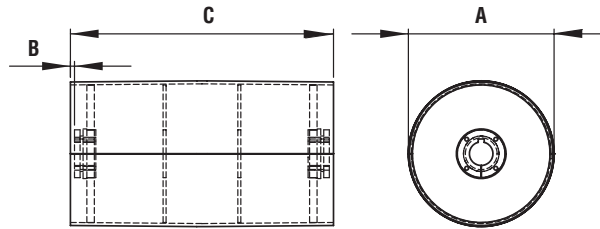
Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
18	CSD18032H25	32	M-HE25	2.5	.75	196
18	CSD18032H30	32	M-HE30	3	.875	202
18	CSD18032H35	32	M-HE35	3.5	.875	202
18	CSD18032H40	32	M-HE40	4	1	210
18	CSD18032H50	32	M-HE50	5	1	239
18	CSD18034H35	34	M-HE35	3.5	.875	209
18	CSD18036H50	36	M-HE50	5	1	255
18	CSD18038H25	38	M-HE25	2.5	.75	220
18	CSD18038H30	38	M-HE30	3	.875	226
18	CSD18038H35	38	M-HE35	3.5	.875	225
18	CSD18038H40	38	M-HE40	4	1	234
18	CSD18038H45	38	M-HE45	4.5	1	254
18	CSD18038H50	38	M-HE50	5	1	262
18	CSD18040H25	40	M-HE25	2.5	.75	243
18	CSD18040H35	40	M-HE35	3.5	.875	247
18	CSD18040H40	40	M-HE40	4	1	255
18	CSD18040H45	40	M-HE45	4.5	1	274
18	CSD18040H50	40	M-HE50	5	1	282
18	CSD18044H30	44	M-HE30	3	.875	264
18	CSD18044H35	44	M-HE35	3.5	.875	263
18	CSD18044H40	44	M-HE40	4	1	271
18	CSD18044H45	44	M-HE45	4.5	1	290
18	CSD18044H50	44	M-HE50	5	1	298
18	CSD18044H60	44	M-HE60	6	1.125	326
18	CSD18046H45	46	M-HE45	4.5	1	342
18	CSD18051H30	51	M-HE30	3	.875	342
18	CSD18051H35	51	M-HE35	3.5	.875	341
18	CSD18051H40	51	M-HE40	4	1	348
18	CSD18051H45	51	M-HE45	4.5	1	367
18	CSD18051H50	51	M-HE50	5	1	375
18	CSD18051H60	51	M-HE60	6	1.125	403
18	CSD18054H25	54	M-HE25	2.5	.75	352
18	CSD18054H50	54	M-HE50	5	1	390
18	CSD18057H25	57	M-HE25	2.5	.75	366
18	CSD18057H30	57	M-HE30	3	.875	371
18	CSD18057H35	57	M-HE35	3.5	.875	371
18	CSD18057H40	57	M-HE40	4	1	378
18	CSD18057H45	57	M-HE45	4.5	1	397
18	CSD18057H50	57	M-HE50	5	1	405
18	CSD18057H60	57	M-HE60	6	1.125	433
18	CSD18063H25	63	M-HE25	2.5	.75	411
18	CSD18063H30	63	M-HE30	3	.875	415
18	CSD18063H35	63	M-HE35	3.5	.875	414
18	CSD18063H40	63	M-HE40	4	1	420
18	CSD18063H45	63	M-HE45	4.5	1	438
18	CSD18063H50	63	M-HE50	5	1	445
18	CSD18063H60	63	M-HE60	6	1.125	473
18	CSD18063H70	63	M-HE70	7	1.25	478
20	CSD20010H25	10	M-HE25	2.5	.75	110

Standard Duty Drum Pulleys — M-HE Bushed

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
20	CSD20012H25	12	M-HE25	2.5	.75	119
20	CSD20020H25	20	M-HE25	2.5	.75	154
20	CSD20020H30	20	M-HE30	3	.875	162
20	CSD20024H30	24	M-HE30	3	.875	179
20	CSD20026H25	26	M-HE25	2.5	.75	181
20	CSD20026H30	26	M-HE30	3	.875	188
20	CSD20026H35	26	M-HE35	3.5	.875	187
20	CSD20026H40	26	M-HE40	4	1	196
20	CSD20026H50	26	M-HE50	5	1	231
20	CSD20028H25	28	M-HE25	2.5	.75	209
20	CSD20028H30	28	M-HE30	3	.875	215
20	CSD20028H35	28	M-HE35	3.5	.875	214
20	CSD20028H40	28	M-HE40	4	1	223
20	CSD20028H50	28	M-HE50	5	1	256
20	CSD20032H25	32	M-HE25	2.5	.75	227
20	CSD20032H30	32	M-HE30	3	.875	233
20	CSD20032H35	32	M-HE35	3.5	.875	232
20	CSD20032H40	32	M-HE40	4	1	241
20	CSD20032H50	32	M-HE50	5	1	273
20	CSD20034H25	34	M-HE25	2.5	.75	236
20	CSD20034H35	34	M-HE35	3.5	.875	241
20	CSD20034H40	34	M-HE40	4	1	250
20	CSD20034H45	34	M-HE45	4.5	1	273
20	CSD20036H70	36	M-HE70	7	1.25	325
20	CSD20038H25	38	M-HE25	2.5	.75	253
20	CSD20038H30	38	M-HE30	3	.875	259
20	CSD20038H35	38	M-HE35	3.5	.875	259
20	CSD20038H40	38	M-HE40	4	1	267
20	CSD20038H45	38	M-HE45	4.5	1	291
20	CSD20038H50	38	M-HE50	5	1	300
20	CSD20038H60	38	M-HE60	6	1.125	325
20	CSD20040H25	40	M-HE25	2.5	.75	281
20	CSD20040H30	40	M-HE30	3	.875	286
20	CSD20040H35	40	M-HE35	3.5	.875	286
20	CSD20040H40	40	M-HE40	4	1	293
20	CSD20040H45	40	M-HE45	4.5	1	316
20	CSD20040H50	40	M-HE50	5	1	324
20	CSD20044H30	44	M-HE30	3	.875	304
20	CSD20044H35	44	M-HE35	3.5	.875	303
20	CSD20044H40	44	M-HE40	4	1	311
20	CSD20044H45	44	M-HE45	4.5	1	334
20	CSD20046H35	46	M-HE35	3.5	.875	362
20	CSD20046H50	46	M-HE50	5	1	400
20	CSD20051H25	51	M-HE25	2.5	.75	385
20	CSD20051H30	51	M-HE30	3	.875	390
20	CSD20051H35	51	M-HE35	3.5	.875	389
20	CSD20051H40	51	M-HE40	4	1	397
20	CSD20051H50	51	M-HE50	5	1	428
20	CSD20054H50	54	M-HE50	5	1	444

* General position for Bushing face - for position per application consult *Martin*.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.



Standard Duty Drum Pulleys — M-HE Bushed

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
20	CSD20057H25	57	M-HE25	2.5	.75	418
20	CSD20057H30	57	M-HE30	3	.875	423
20	CSD20057H35	57	M-HE35	3.5	.875	422
20	CSD20057H40	57	M-HE40	4	1	430
20	CSD20057H45	57	M-HE45	4.5	1	452
20	CSD20057H50	57	M-HE50	5	1	461
20	CSD20060H50	60	M-HE50	5	1	492
20	CSD20063H25	63	M-HE25	2.5	.75	470
20	CSD20063H30	63	M-HE30	3	.875	474
20	CSD20063H35	63	M-HE35	3.5	.875	473
20	CSD20063H40	63	M-HE40	4	1	480
20	CSD20063H45	63	M-HE45	4.5	1	501
20	CSD20063H50	63	M-HE50	5	1	509
20	CSD20063H60	63	M-HE60	6	1.125	530
20	CSD20063H70	63	M-HE70	7	1.25	541
20	CSD20066H40	66	M-HE40	4	1	588
20	CSD20066H70	66	M-HE70	7	1.25	646
20	CSD20076H40	76	M-HE40	4	1	655
20	CSD20076H45	76	M-HE45	4.5	1	676
20	CSD20087H35	87	M-HE35	3.5	.875	723
20	CSD20087H45	87	M-HE45	4.5	1	750
24	CSD24014H35	14	M-HE35	3.5	.875	203
24	CSD24014H40	14	M-HE40	4	1	212
24	CSD24026H25	26	M-HE25	2.5	.75	261
24	CSD24026H30	26	M-HE30	3	.875	268
24	CSD24026H35	26	M-HE35	3.5	.875	267
24	CSD24026H40	26	M-HE40	4	1	276
24	CSD24026H50	26	M-HE50	5	1	293
24	CSD24028H25	28	M-HE25	2.5	.75	301
24	CSD24028H30	28	M-HE30	3	.875	306
24	CSD24028H40	28	M-HE40	4	1	313
24	CSD24028H50	28	M-HE50	5	1	328
24	CSD24028H60	28	M-HE60	6	1.125	354
24	CSD24030H40	30	M-HE40	4	1	323
24	CSD24032H25	32	M-HE25	2.5	.75	322
24	CSD24032H30	32	M-HE30	3	.875	327
24	CSD24032H35	32	M-HE35	3.5	.875	326
24	CSD24032H40	32	M-HE40	4	1	334
24	CSD24032H45	32	M-HE45	4.5	1	341
24	CSD24032H50	32	M-HE50	5	1	349
24	CSD24032H70	32	M-HE70	7	1.25	384
24	CSD24032H80	32	M-HE80	8	1.5	424
24	CSD24034H30	34	M-HE30	3	.875	338
24	CSD24034H45	34	M-HE45	4.5	1	351
24	CSD24036H60	36	M-HE60	6	1.125	385
24	CSD24038H25	38	M-HE25	2.5	.75	354
24	CSD24038H30	38	M-HE30	3	.875	359
24	CSD24038H35	38	M-HE35	3.5	.875	358
24	CSD24038H40	38	M-HE40	4	1	366

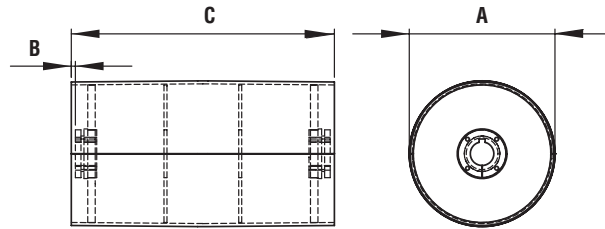
Standard Duty Drum Pulleys — M-HE Bushed

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
24	CSD24038H45	38	M-HE45	4.5	1	372
24	CSD24038H60	38	M-HE60	6	1.125	406
24	CSD24038H70	38	M-HE70	7	1.25	416
24	CSD24040H25	40	M-HE25	2.5	.75	394
24	CSD24040H45	40	M-HE45	4.5	1	409
24	CSD24040H50	40	M-HE50	5	1	417
24	CSD24040H60	40	M-HE60	6	1.125	490
24	CSD24040H70	40	M-HE70	7	1.25	447
24	CSD24044H25	44	M-HE25	2.5	.75	415
24	CSD24044H35	44	M-HE35	3.5	.875	417
24	CSD24044H40	44	M-HE40	4	1	424
24	CSD24044H45	44	M-HE45	4.5	1	430
24	CSD24044H50	44	M-HE50	5	1	440
24	CSD24044H60	44	M-HE60	6	1.125	461
24	CSD24044H70	44	M-HE70	7	1.25	468
24	CSD24044H80	44	M-HE80	8	1.5	505
24	CSD24046H40	46	M-HE40	4	1	494
24	CSD24046H45	46	M-HE45	4.5	1	500
24	CSD24046H50	46	M-HE50	5	1	508
24	CSD24046H60	46	M-HE60	6	1.125	531
24	CSD24046H70	46	M-HE70	7	1.25	538
24	CSD24051H25	51	M-HE25	2.5	.75	518
24	CSD24051H30	51	M-HE30	3	.875	521
24	CSD24051H35	51	M-HE35	3.5	.875	520
24	CSD24051H40	51	M-HE40	4	1	527
24	CSD24051H45	51	M-HE45	4.5	1	533
24	CSD24051H50	51	M-HE50	5	1	541
24	CSD24051H60	51	M-HE60	6	1.125	564
24	CSD24051H70	51	M-HE70	7	1.25	571
24	CSD24054H25	54	M-HE25	2.5	.75	537
24	CSD24054H30	54	M-HE30	3	.875	541
24	CSD24054H50	54	M-HE50	5	1	561
24	CSD24054H60	54	M-HE60	6	1.125	584
24	CSD24054H70	54	M-HE70	7	1.25	591
24	CSD24057H25	57	M-HE25	2.5	.75	557
24	CSD24057H30	57	M-HE30	3	.875	561
24	CSD24057H35	57	M-HE35	3.5	.875	560
24	CSD24057H45	57	M-HE45	4.5	1	572
24	CSD24057H50	57	M-HE50	5	1	580
24	CSD24057H60	57	M-HE60	6	1.125	603
24	CSD24057H70	57	M-HE70	7	1.25	610
24	CSD24057H80	57	M-HE80	8	1.5	647
24	CSD24063H25	63	M-HE25	2.5	.75	625
24	CSD24063H35	63	M-HE35	3.5	.875	627
24	CSD24063H40	63	M-HE40	4	1	632
24	CSD24063H45	63	M-HE45	4.5	1	637
24	CSD24063H50	63	M-HE50	5	1	644
24	CSD24063H60	63	M-HE60	6	1.125	665
24	CSD24063H70	63	M-HE70	7	1.25	670

* General position for Bushing face - for position per application consult *Martin*.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.

Drum Pulleys Standard Duty — M-HE Bushed



Standard Duty Drum Pulleys — M-HE Bushed

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
24	CSD24063H80	63	M-HE80	8	1.5	704
24	CSD24066H50	66	M-HE50	5	1	779
24	CSD24066H60	66	M-HE60	6	1.125	778
24	CSD24066H70	66	M-HE70	7	1.25	800
24	CSD24076H45	76	M-HE45	4.5	1	853
24	CSD24087H45	87	M-HE45	4.5	1	941
30	CSD30016H40	16	M-HE40	4	1	509
30	CSD30032H35	32	M-HE35	3.5	.875	516
30	CSD30032H40	32	M-HE40	4	1	523
30	CSD30032H45	32	M-HE45	4.5	1	616
30	CSD30032H50	32	M-HE50	5	1	638
30	CSD30036H60	36	M-HE60	6	1.125	670
30	CSD30038H40	38	M-HE40	4	1	566
30	CSD30038H45	38	M-HE45	4.5	1	572
30	CSD30038H60	38	M-HE60	6	1.125	687
30	CSD30038H70	38	M-HE70	7	1.25	691
30	CSD30040H50	40	M-HE50	5	1	717
30	CSD30040H60	40	M-HE60	6	1.125	726
30	CSD30040H70	40	M-HE70	7	1.25	745
30	CSD30044H40	44	M-HE40	4	1	659
30	CSD30044H50	44	M-HE50	5	1	757
30	CSD30044H60	44	M-HE60	6	1.125	776
30	CSD30044H70	44	M-HE70	7	1.25	778
30	CSD30044H80	44	M-HE80	8	1.5	810
30	CSD30046H30	46	M-HE30	3	.875	653
30	CSD30046H50	46	M-HE50	5	1	757
30	CSD30046H60	46	M-HE60	6	1.125	776
30	CSD30046H70	46	M-HE70	7	1.25	795
30	CSD30051H45	51	M-HE45	4.5	1	723
30	CSD30051H50	51	M-HE50	5	1	815
30	CSD30051H70	51	M-HE70	7	1.25	835
30	CSD30051H80	51	M-HE80	8	1.5	867
30	CSD30054H50	54	M-HE50	5	1	926
30	CSD30054H60	54	M-HE60	6	1.125	945
30	CSD30054H80	54	M-HE80	8	1.5	978
30	CSD30057H40	57	M-HE40	4	1	859
30	CSD30057H45	57	M-HE45	4.5	1	865
30	CSD30057H50	57	M-HE50	5	1	956
30	CSD30057H60	57	M-HE60	6	1.125	974
30	CSD30057H70	57	M-HE70	7	1.25	977
30	CSD30057H80	57	M-HE80	8	1.5	1008
30	CSD30060H50	60	M-HE50	5	1	1027
30	CSD30063H35	63	M-HE35	3.5	.875	956
30	CSD30063H45	63	M-HE45	4.5	1	967
30	CSD30063H50	63	M-HE50	5	1	1057
30	CSD30063H60	63	M-HE60	6	1.125	1072
30	CSD30063H70	63	M-HE70	7	1.25	1073
30	CSD30063H80	63	M-HE80	8	1.5	1102
30	CSD30076H80	76	M-HE80	8	1.5	1273

Standard Duty Drum Pulleys — M-HE Bushed

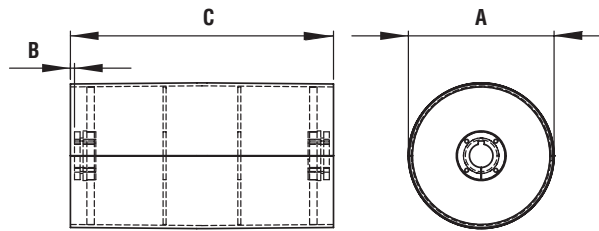
Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
36	CSD36044H50	44	M-HE50	5	1	1003
36	CSD36044H70	44	M-HE70	7	1.25	1023
36	CSD36044H80	44	M-HE80	8	1.5	1055
36	CSD36046H50	46	M-HE50	5	1	1022
36	CSD36046H60	46	M-HE60	6	1.125	1041
36	CSD36051H40	51	M-HE40	4	1	930
36	CSD36051H45	51	M-HE45	4.5	1	936
36	CSD36051H50	51	M-HE50	5	1	1072
36	CSD36051H60	51	M-HE60	6	1.125	1091
36	CSD36051H70	51	M-HE70	7	1.25	1092
36	CSD36051H80	51	M-HE80	8	1.5	1124
36	CSD36057H60	57	M-HE60	6	1.125	1260
36	CSD36057H70	57	M-HE70	7	1.25	1262
36	CSD36057H80	57	M-HE80	8	1.5	1293
36	CSD36060H40	60	M-HE40	4	1	1201
36	CSD36063H40	63	M-HE40	4	1	1237
36	CSD36063H50	63	M-HE50	5	1	1375
36	CSD36063H60	63	M-HE60	6	1.125	1392
36	CSD36063H70	63	M-HE70	7	1.25	1391
36	CSD36063H80	63	M-HE80	8	1.5	1420



Custom Shafting Available!

* General position for Bushing face - for position per application consult *Martin*.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.



Standard Duty Drum Pulleys – M-HE Bushed (Lagged)

Dia. A	Part Number	Face C	Hub	Max Bore	Setback B*	Lagging	Approx. Weight (lb)
6	CSD06020H25L3H	20	M-HE25	2.5	.75	.375	37
6	CSD06032H25L3H	32	M-HE25	2.5	.75	.375	54
8	CSD08026H25L3H	26	M-HE25	2.5	.75	.375	59
8	CSD08032H25L3H	32	M-HE25	2.5	.75	.375	72
10	CSD10026H25L3H	26	M-HE25	2.5	.75	.375	83
10	CSD10026H30L3H	26	M-HE30	3	.875	.375	84
10	CSD10032H25L3H	32	M-HE25	2.5	.75	.375	94
10	CSD10044H25L3H	44	M-HE25	2.5	.75	.375	132
10	CSD10044H30L3H	44	M-HE30	3	.875	.375	125
10	CSD10051H30L3H	51	M-HE30	3	.875	.375	148
12	CSD12020H25L3H	20	M-HE25	2.5	.75	.375	85
12	CSD12020H35L3H	20	M-HE35	3.5	.875	.375	85
12	CSD12026H25L3H	26	M-HE25	2.5	.75	.375	95
12	CSD12026H30L3H	26	M-HE30	3	.875	.375	102
12	CSD12032H25L3H	32	M-HE25	2.5	.75	.375	123
12	CSD12032H30L3H	32	M-HE30	2.5	.75	.375	123
12	CSD12032H35L3H	32	M-HE35	3.5	.875	.375	117
12	CSD12038H25L3H	38	M-HE25	2.5	.75	.375	133
12	CSD12038H30L3H	38	M-HE30	3	.875	.375	141
12	CSD12038H35L3H	38	M-HE35	3.5	.875	.375	140
12	CSD12044H25L3H	44	M-HE25	2.5	.75	.375	155
12	CSD12044H30L3H	44	M-HE30	3	.875	.375	163
12	CSD12051H25L3H	51	M-HE25	2.5	.75	.375	174
12	CSD12051H30L3H	51	M-HE30	3	.875	.375	182
12	CSD14020H30L3H	20	M-HE30	3	.875	.375	103
14	CSD14026H25L3H	26	M-HE25	2.5	.75	.375	115
14	CSD14026H30L3H	26	M-HE30	3	.875	.375	122
14	CSD14032H25L3H	32	M-HE25	2.5	.75	.375	143
14	CSD14032H30L3H	32	M-HE30	3	.875	.375	149
14	CSD14038H30L3H	38	M-HE30	3	.875	.375	168
14	CSD14038H35L3H	38	M-HE35	3.5	.875	.375	167
14	CSD14044H25L3H	44	M-HE25	2.5	.75	.375	189
14	CSD14044H30L3H	44	M-HE30	3	.875	.375	194
14	CSD14044H35L3H	44	M-HE35	3.5	.875	.375	193
14	CSD14051H30L3H	51	M-HE30	3	.875	.375	216
14	CSD14051H35L3H	51	M-HE35	3.5	.875	.375	215
14	CSD14051H40L3H	51	M-HE40	4	1	.375	226
14	CSD14063H35L3H	63	M-HE35	3.5	.875	.375	356
16	CSD16020H30L3H	20	M-HE30	3	.875	.375	122
16	CSD16026H25L3H	26	M-HE25	2.5	.75	.375	144
16	CSD16026H30L3H	26	M-HE30	3	.875	.375	144
16	CSD16026H35L3H	26	M-HE35	3.5	.875	.375	143
16	CSD16026H40L2H	26	M-HE40	4	1	.25	152
16	CSD16026H40L3H	26	M-HE40	4	1	.375	153
16	CSD16032H30L3H	32	M-HE30	3	.875	.375	175
16	CSD16032H35L3H	32	M-HE35	3.5	.875	.375	175
16	CSD16032H40L3H	32	M-HE40	4	1	.375	184

Standard Duty Drum Pulleys – M-HE Bushed (Lagged)

Dia. A	Part Number	Face C	Hub	Max Bore	Setback B*	Lagging	Approx. Weight (lb)
16	CSD16038H25L3H	38	M-HE25	2.5	.75	.375	192
16	CSD16038H30L3H	38	M-HE30	3	.875	.375	198
16	CSD16038H35L3H	38	M-HE35	3.5	.875	.375	197
16	CSD16038H40L3H	38	M-HE40	4	1	.375	206
16	CSD16044H30L3H	44	M-HE30	3	.875	.375	230
16	CSD16051H35L3H	51	M-HE35	3.5	.875	.375	299
16	CSD16063H35L3H	63	M-HE35	3.5	.875	.375	235
18	CSD18026H30L3H	26	M-HE30	3	.875	.375	176
18	CSD18026H35L3H	26	M-HE35	3.5	.875	.375	176
18	CSD18026H40L3H	26	M-HE40	4	1	.375	176
18	CSD18026H50L3H	26	M-HE50	5	1	.375	206
18	CSD18032H30L3H	32	M-HE30	3	.875	.375	205
18	CSD18032H35L3H	32	M-HE35	3.5	.875	.375	205
18	CSD18032H40L3H	32	M-HE40	4	1	.375	213
18	CSD18032H45L3H	32	M-HE45	4.5	1	.375	233
18	CSD18038H30L3H	38	M-HE30	3	.875	.375	230
18	CSD18038H35L3H	38	M-HE35	3.5	.875	.375	229
18	CSD18038H40L3H	38	M-HE40	4	1	.375	238
18	CSD18044H35L3H	44	M-HE35	3.5	.875	.375	267
18	CSD18044H40L3H	44	M-HE40	4	1	.375	275
18	CSD18051H35L3H	51	M-HE35	3.5	.875	.375	394
20	CSD20026H30L3H	26	M-HE30	3	.875	.375	191
20	CSD20026H35L3H	26	M-HE35	3.5	.875	.375	190
20	CSD20026H40L3H	26	M-HE40	4	1	.375	200
20	CSD20026H50L3H	26	M-HE50	5	1	.375	234
20	CSD20032H30L3H	32	M-HE30	3	.875	.375	236
20	CSD20032H35L3H	32	M-HE35	3.5	.875	.375	235
20	CSD20032H40L3H	32	M-HE40	4	1	.375	244
20	CSD20032H50L3H	32	M-HE50	5	1	.375	277
20	CSD20038H30L3H	38	M-HE30	3	.875	.375	263
20	CSD20038H35L3H	38	M-HE35	3.5	.875	.375	262
20	CSD20038H40L3H	38	M-HE40	4	1	.375	271
20	CSD20044H40L3H	44	M-HE40	4	1	.375	315
20	CSD20051H40L3H	51	M-HE40	4	1	.375	402
24	CSD24026H35L3H	26	M-HE35	3.5	.875	.375	270
24	CSD24026H40L3H	26	M-HE40	4	1	.375	279
24	CSD24026H45L3H	26	M-HE45	4.5	1	.375	286
24	CSD24032H30L3H	32	M-HE30	3	.875	.375	331
24	CSD24032H35L3H	32	M-HE35	3.5	.875	.375	330
24	CSD24032H40L3H	32	M-HE40	4	1	.375	338
24	CSD24032H45L3H	32	M-HE45	4.5	1	.375	344
24	CSD24038H35L3H	38	M-HE35	3.5	.875	.375	263
24	CSD24038H40L3H	38	M-HE40	4	1	.375	270
24	CSD24038H45L3H	38	M-HE45	4.5	1	.375	277
24	CSD24044H40L3H	44	M-HE40	4	1	.375	429
24	CSD24044H45L3H	44	M-HE45	4.5	1	.375	435
24	CSD24051H40L3H	51	M-HE40	4	1	.375	533

* General position for Bushing face - for position per application consult *Martin*.

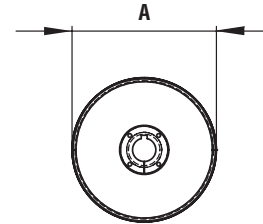
BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.

Drum Pulleys Mine Duty

Martin offers Mine Duty Drum Pulleys using a minimum .375" rim (up to 20" diameter), .5" minimum rim on 24" and larger diameter, 1" minimum end discs and .375" center discs. Each Mine Duty Drum Pulley features a rolled rim, which has been fabricated on either flat or custom crowned roll machines. The rims are trimmed and hydraulically seated around the heavy end discs to ensure maximum concentricity. Once the Pulley is formed, *Martin* utilizes a double or triple pass submerged arc weldment to ensure optimum connection of its individual components.

Features:

- 10" to 60" Diameter
- .375" Minimum Rim Thickness
- 1", 1.25", and Heavier End Discs
- .375" Center Plates
- Several Hub/Bushing Systems Available
- Double Sub-Arc Weldments



Martin's Mine Duty Drum Pulleys are manufactured with Crown face. Flat face available upon request.

Mine Duty Drum Pulleys

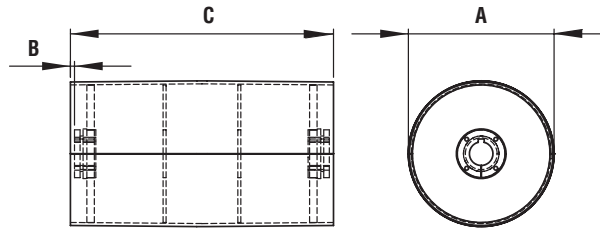
Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
10	CMD10026X30	26	MXT30	3	.875	112
10	CMD10032X30	32	MXT30	3	.875	138
10	CMD10044X30	44	MXT30	3	.875	183
10	CMD10051X35	51	MXT35	3.5	.875	203
12	CMD12012X30	12	MXT30	3	.875	88
12	CMD12012X35	12	MXT35	3.5	.875	97
12	CMD12014X30	14	MXT30	3	.875	96
12	CMD12014X35	14	MXT35	3.5	.875	106
12	CMD12016X30	16	MXT30	3	.875	104
12	CMD12016X35	16	MXT35	3.5	.875	114
12	CMD12018X30	18	MXT30	3	.875	112
12	CMD12018X35	18	MXT35	3.5	.875	122
12	CMD12020X30	20	MXT30	3	.875	120
12	CMD12020X35	20	MXT35	3.5	.875	130
12	CMD12022X30	22	MXT30	3	.875	128
12	CMD12022X35	22	MXT35	3.5	.875	138
12	CMD12024X30	24	MXT30	3	.875	136
12	CMD12024X35	24	MXT35	3.5	.875	146
12	CMD12026X30	26	MXT30	3	.875	144
12	CMD12026X35	26	MXT35	3.5	.875	154
12	CMD12026X40	26	MXT40	4	1	154
12	CMD12030X30	30	MXT30	3	.875	168
12	CMD12030X35	30	MXT35	3.5	.875	177
12	CMD12032X30	32	MXT30	3	.875	176
12	CMD12032X35	32	MXT35	3.5	.875	185
12	CMD12032X40	32	MXT40	4	1	185
12	CMD12036X30	36	MXT30	3	.875	192
12	CMD12036X35	36	MXT35	3.5	.875	201
12	CMD12038X30	38	MXT30	3	.875	200
12	CMD12038X35	38	MXT35	3.5	.875	209
12	CMD12038X40	38	MXT40	4	1	209
12	CMD12040X30	40	MXT30	3	.875	217

Mine Duty Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
12	CMD12040X35	40	MXT35	3.5	.875	225
12	CMD12040X40	40	MXT40	4	1	224
12	CMD12042X30	42	MXT30	3	.875	225
12	CMD12042X35	42	MXT35	3.5	.875	233
12	CMD12044X30	44	MXT30	3	.875	233
12	CMD12044X35	44	MXT35	3.5	.875	241
12	CMD12046X30	46	MXT30	3	.875	240
12	CMD12046X35	46	MXT35	3.5	.875	249
12	CMD12051X30	51	MXT30	3	.875	260
12	CMD12051X35	51	MXT35	3.5	.875	269
12	CMD12051X40	51	MXT40	4	1	267
12	CMD12057X30	57	MXT30	3	.875	284
12	CMD12057X35	57	MXT35	3.5	.875	293
12	CMD12057X45	57	MXT45	4.5	1	289
12	CMD12063X30	63	MXT30	3	.875	316
12	CMD12063X35	63	MXT35	3.5	.875	324
14	CMD14012X30	12	MXT30	3	.875	141
14	CMD14012X35	12	MXT35	3.5	.875	131
14	CMD14012X40	12	MXT40	4	1	135
14	CMD14014X30	14	MXT30	3	.875	150
14	CMD14014X35	14	MXT35	3.5	.875	140
14	CMD14014X40	14	MXT40	4	1	144
14	CMD14016X30	16	MXT30	3	.875	160
14	CMD14016X35	16	MXT35	3.5	.875	149
14	CMD14016X40	16	MXT40	4	1	153
14	CMD14018X30	18	MXT30	3	.875	169
14	CMD14018X35	18	MXT35	3.5	.875	158
14	CMD14018X40	18	MXT40	4	1	162
14	CMD14020X30	20	MXT30	3	.875	178
14	CMD14020X35	20	MXT35	3.5	.875	168
14	CMD14020X40	20	MXT40	4	1	172
14	CMD14022X30	22	MXT30	3	.875	187

* General position for Bushing face - for position per application consult *Martin*.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.



Mine Duty Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
14	CMD14022X35	22	MXT35	3.5	.875	177
14	CMD14022X40	22	MXT40	4	1	181
14	CMD14024X30	24	MXT30	3	.875	197
14	CMD14024X35	24	MXT35	3.5	.875	186
14	CMD14024X40	24	MXT40	4	1	190
14	CMD14026X30	26	MXT30	3	.875	206
14	CMD14026X35	26	MXT35	3.5	.875	195
14	CMD14026X40	26	MXT40	4	1	199
14	CMD14030X30	30	MXT30	3	.875	235
14	CMD14030X35	30	MXT35	3.5	.875	224
14	CMD14030X40	30	MXT40	4	1	229
14	CMD14032X30	32	MXT30	3	.875	244
14	CMD14032X35	32	MXT35	3.5	.875	234
14	CMD14032X40	32	MXT40	4	1	238
14	CMD14038X30	38	MXT30	3	.875	272
14	CMD14038X35	38	MXT35	3.5	.875	261
14	CMD14038X40	38	MXT40	4	1	266
14	CMD14040X30	40	MXT30	3	.875	291
14	CMD14040X35	40	MXT35	3.5	.875	281
14	CMD14040X40	40	MXT40	4	1	286
14	CMD14042X30	42	MXT30	3	.875	300
14	CMD14042X35	42	MXT35	3.5	.875	290
14	CMD14042X40	42	MXT40	4	1	295
14	CMD14044X30	44	MXT30	3	.875	310
14	CMD14044X35	44	MXT35	3.5	.875	299
14	CMD14044X40	44	MXT40	4	1	305
14	CMD14046X30	46	MXT30	3	.875	319
14	CMD14046X35	46	MXT35	3.5	.875	308
14	CMD14046X40	46	MXT40	4	1	314
14	CMD14051X30	51	MXT30	3	.875	342
14	CMD14051X35	51	MXT35	3.5	.875	331
14	CMD14051X40	51	MXT40	4	1	337
14	CMD14051X50	51	MXT50	5	1	335
14	CMD14054X30	54	MXT30	3	.875	355
14	CMD14054X35	54	MXT35	3.5	.875	345
14	CMD14054X40	54	MXT40	4	1	350
14	CMD14057X30	57	MXT30	3	.875	369
14	CMD14057X35	57	MXT35	3.5	.875	359
14	CMD14057X40	57	MXT40	4	1	364
14	CMD14060X30	60	MXT30	3	.875	393
14	CMD14060X35	60	MXT35	3.5	.875	383
14	CMD14060X40	60	MXT40	4	1	389
14	CMD14063X30	63	MXT30	3	.875	407
14	CMD14063X35	63	MXT35	3.5	.875	397
14	CMD14063X40	63	MXT40	4	1	403
14	CMD14066X30	66	MXT30	3	.875	441
14	CMD14066X35	66	MXT35	3.5	.875	431
14	CMD14066X40	66	MXT40	4	1	438
16	CMD16012X30	12	MXT30	3	.875	174

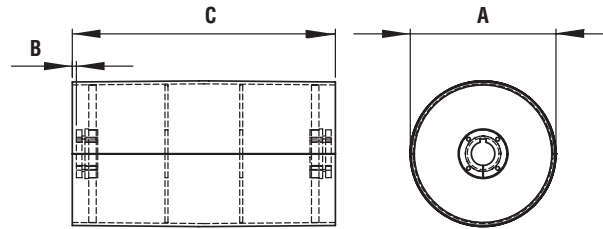
Mine Duty Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
16	CMD16012X35	12	MXT35	3.5	.875	164
16	CMD16012X40	12	MXT40	4	1	168
16	CMD16014X30	14	MXT30	3	.875	185
16	CMD16014X35	14	MXT35	3.5	.875	175
16	CMD16014X40	14	MXT40	4	1	179
16	CMD16016X30	16	MXT30	3	.875	196
16	CMD16016X35	16	MXT35	3.5	.875	185
16	CMD16016X40	16	MXT40	4	1	189
16	CMD16018X30	18	MXT30	3	.875	206
16	CMD16018X35	18	MXT35	3.5	.875	196
16	CMD16018X40	18	MXT40	4	1	200
16	CMD16020X30	20	MXT30	3	.875	217
16	CMD16020X35	20	MXT35	3.5	.875	206
16	CMD16020X40	20	MXT40	4	1	210
16	CMD16026X30	26	MXT30	3	.875	248
16	CMD16026X35	26	MXT35	3.5	.875	238
16	CMD16026X40	26	MXT40	4	1	242
16	CMD16030X30	30	MXT30	3	.875	285
16	CMD16030X35	30	MXT35	3.5	.875	274
16	CMD16030X40	30	MXT40	4	1	277
16	CMD16032X30	32	MXT30	3	.875	295
16	CMD16032X35	32	MXT35	3.5	.875	285
16	CMD16032X40	32	MXT40	4	1	287
16	CMD16036X30	36	MXT30	3	.875	316
16	CMD16036X35	36	MXT35	3.5	.875	306
16	CMD16036X40	36	MXT40	4	1	308
16	CMD16038X30	38	MXT30	3	.875	327
16	CMD16038X35	38	MXT35	3.5	.875	316
16	CMD16038X40	38	MXT40	4	1	319
16	CMD16038X45	38	MXT45	4.5	1	319
16	CMD16038X50	38	MXT50	5	1	322
16	CMD16040X30	40	MXT30	3	.875	352
16	CMD16040X35	40	MXT35	3.5	.875	342
16	CMD16040X40	40	MXT40	4	1	343
16	CMD16040X50	40	MXT50	5	1	346
16	CMD16044X30	44	MXT30	3	.875	373
16	CMD16044X35	44	MXT35	3.5	.875	363
16	CMD16044X40	44	MXT40	4	1	364
16	CMD16044X50	44	MXT50	5	1	367
16	CMD16046X30	46	MXT30	3	.875	384
16	CMD16046X35	46	MXT35	3.5	.875	373
16	CMD16046X40	46	MXT40	4	1	374
16	CMD16046X50	46	MXT50	5	1	378
16	CMD16051X30	51	MXT30	3	.875	410
16	CMD16051X35	51	MXT35	3.5	.875	400
16	CMD16051X40	51	MXT40	4	1	400
16	CMD16051X45	51	MXT45	4.5	1	400
16	CMD16051X50	51	MXT50	5	1	404
16	CMD16054X30	54	MXT30	3	.875	426

* General position for Bushing face - for position per application consult *Martin*.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.

Drum Pulleys Mine Duty



Mine Duty Drum Pulleys

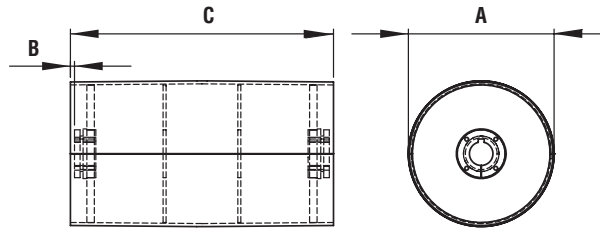
Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
16	CMD16054X35	54	MXT35	3.5	.875	415
16	CMD16054X40	54	MXT40	4	1	116
16	CMD16057X30	57	MXT30	3	.875	441
16	CMD16057X35	57	MXT35	3.5	.875	431
16	CMD16057X40	57	MXT40	4	1	432
16	CMD16057X45	57	MXT45	4.5	1	432
16	CMD16057X60	57	MXT60	6	1.125	439
16	CMD16060X30	60	MXT30	3	.875	472
16	CMD16060X35	60	MXT35	3.5	.875	462
16	CMD16060X40	60	MXT40	4	1	461
16	CMD16063X30	63	MXT30	3	.875	488
16	CMD16063X35	63	MXT35	3.5	.875	477
16	CMD16063X40	63	MXT40	4	1	476
16	CMD16063X45	63	MXT45	4.5	1	476
16	CMD16066X30	66	MXT30	3	.875	533
16	CMD16066X35	66	MXT35	3.5	.875	523
16	CMD16066X40	66	MXT40	4	1	518
18	CMD18012X30	12	MXT30	3	.875	211
18	CMD18012X35	12	MXT35	3.5	.875	201
18	CMD18012X40	12	MXT40	4	1	205
18	CMD18014X30	14	MXT30	3	.875	223
18	CMD18014X35	14	MXT35	3.5	.875	213
18	CMD18014X40	14	MXT40	4	1	217
18	CMD18014X45	14	MXT45	4.5	1	217
18	CMD18016X30	16	MXT30	3	.875	235
18	CMD18016X35	16	MXT35	3.5	.875	225
18	CMD18016X40	16	MXT40	4	1	229
18	CMD18016X45	16	MXT45	4.5	1	229
18	CMD18018X30	18	MXT30	3	.875	247
18	CMD18018X35	18	MXT35	3.5	.875	237
18	CMD18018X40	18	MXT40	4	1	241
18	CMD18018X45	18	MXT45	4.5	1	241
18	CMD18020X30	20	MXT30	3	.875	259
18	CMD18020X35	20	MXT35	3.5	.875	248
18	CMD18020X40	20	MXT40	4	1	252
18	CMD18020X45	20	MXT45	4.5	1	252
18	CMD18022X30	22	MXT30	3	.875	271
18	CMD18022X35	22	MXT35	3.5	.875	260
18	CMD18022X40	22	MXT40	4	1	264
18	CMD18022X45	22	MXT45	4.5	1	264
18	CMD18024X30	24	MXT30	3	.875	282
18	CMD18024X35	24	MXT35	3.5	.875	272
18	CMD18024X40	24	MXT40	4	1	276
18	CMD18024X45	24	MXT45	4.5	1	276
18	CMD18026X30	26	MXT30	3	.875	294
18	CMD18026X35	26	MXT35	3.5	.875	284
18	CMD18026X40	26	MXT40	4	1	288
18	CMD18026X45	26	MXT45	4.5	1	288
18	CMD18026X50	26	MXT50	5	1	292

Mine Duty Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
18	CMD18030X30	30	MXT30	3	.875	339
18	CMD18030X35	30	MXT35	3.5	.875	328
18	CMD18030X40	30	MXT40	4	1	331
18	CMD18030X45	30	MXT45	4.5	1	331
18	CMD18032X30	32	MXT30	3	.875	350
18	CMD18032X35	32	MXT35	3.5	.875	340
18	CMD18032X40	32	MXT40	4	1	342
18	CMD18032X45	32	MXT45	4.5	1	343
18	CMD18036X30	36	MXT30	3	.875	374
18	CMD18036X35	36	MXT35	3.5	.875	364
18	CMD18036X40	36	MXT40	4	1	366
18	CMD18036X45	36	MXT45	4.5	1	366
18	CMD18036X50	36	MXT50	5	1	368
18	CMD18038X30	38	MXT30	3	.875	386
18	CMD18038X35	38	MXT35	3.5	.875	376
18	CMD18038X40	38	MXT40	4	1	378
18	CMD18038X45	38	MXT45	4.5	1	378
18	CMD18038X50	38	MXT50	5	1	380
18	CMD18040X30	40	MXT30	3	.875	418
18	CMD18040X35	40	MXT35	3.5	.875	408
18	CMD18040X40	40	MXT40	4	1	409
18	CMD18040X45	40	MXT45	4.5	1	409
18	CMD18042X30	42	MXT30	3	.875	430
18	CMD18042X35	42	MXT35	3.5	.875	420
18	CMD18042X40	42	MXT40	4	1	420
18	CMD18042X45	42	MXT45	4.5	1	420
18	CMD18044X30	44	MXT30	3	.875	442
18	CMD18044X35	44	MXT35	3.5	.875	432
18	CMD18044X40	44	MXT40	4	1	432
18	CMD18044X45	44	MXT45	4.5	1	432
18	CMD18044X50	44	MXT50	5	1	432
18	CMD18044X60	44	MXT60	6	1.125	440
18	CMD18046X30	46	MXT30	3	.875	454
18	CMD18046X35	46	MXT35	3.5	.875	443
18	CMD18046X40	46	MXT40	4	1	444
18	CMD18046X45	46	MXT45	4.5	1	444
18	CMD18046X50	46	MXT50	5	1	444
18	CMD18051X30	51	MXT30	3	.875	483
18	CMD18051X35	51	MXT35	3.5	.875	473
18	CMD18051X40	51	MXT40	4	1	473
18	CMD18051X45	51	MXT45	4.5	1	474
18	CMD18051X50	51	MXT50	5	1	473
18	CMD18051X60	51	MXT60	6	1.125	481
18	CMD18054X30	54	MXT30	3	.875	501
18	CMD18054X35	54	MXT35	3.5	.875	491
18	CMD18054X40	54	MXT40	4	1	491
18	CMD18054X45	54	MXT45	4.5	1	491
18	CMD18057X35	57	MXT35	3.5	.875	508
18	CMD18057X40	57	MXT40	4	1	509

* General position for Bushing face - for position per application consult *Martin*.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.



Mine Duty Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
18	CMD18057X45	57	MXT45	4.5	1	509
18	CMD18057X50	57	MXT50	5	1	509
18	CMD18057X60	57	MXT60	6	1.125	516
18	CMD18060X30	60	MXT30	3	.875	556
18	CMD18060X35	60	MXT35	3.5	.875	546
18	CMD18060X40	60	MXT40	4	1	545
18	CMD18060X45	60	MXT45	4.5	1	545
18	CMD18063X30	63	MXT30	3	.875	574
18	CMD18063X35	63	MXT35	3.5	.875	564
18	CMD18063X40	63	MXT40	4	1	563
18	CMD18063X45	63	MXT45	4.5	1	563
18	CMD18063X50	63	MXT50	5	1	560
18	CMD18066X30	66	MXT30	3	.875	632
18	CMD18066X35	66	MXT35	3.5	.875	622
18	CMD18066X40	66	MXT40	4	1	617
18	CMD18066X45	66	MXT45	4.5	1	617
18	CMD18066X50	66	MXT50	5	1	610
20	CMD20012X30	12	MXT30	3	.875	251
20	CMD20012X35	12	MXT35	3.5	.875	241
20	CMD20012X40	12	MXT40	4	1	245
20	CMD20014X30	14	MXT30	3	.875	265
20	CMD20014X35	14	MXT35	3.5	.875	255
20	CMD20014X40	14	MXT40	4	1	259
20	CMD20014X45	14	MXT45	4.5	1	259
20	CMD20016X30	16	MXT30	3	.875	278
20	CMD20016X35	16	MXT35	3.5	.875	268
20	CMD20016X40	16	MXT40	4	1	272
20	CMD20016X45	16	MXT45	4.5	1	272
20	CMD20018X30	18	MXT30	3	.875	291
20	CMD20018X35	18	MXT35	3.5	.875	281
20	CMD20018X40	18	MXT40	4	1	285
20	CMD20018X45	18	MXT45	4.5	1	285
20	CMD20020X30	20	MXT30	3	.875	304
20	CMD20020X35	20	MXT35	3.5	.875	294
20	CMD20020X40	20	MXT40	4	1	298
20	CMD20020X45	20	MXT45	4.5	1	298
20	CMD20022X30	22	MXT30	3	.875	318
20	CMD20022X35	22	MXT35	3.5	.875	307
20	CMD20022X40	22	MXT40	4	1	311
20	CMD20022X45	22	MXT45	4.5	1	311
20	CMD20024X30	24	MXT30	3	.875	331
20	CMD20024X35	24	MXT35	3.5	.875	320
20	CMD20024X40	24	MXT40	4	1	324
20	CMD20024X45	24	MXT45	4.5	1	225
20	CMD20024X60	24	MXT60	6	1.125	337
20	CMD20024X70	24	MXT70	7	1.25	356
20	CMD20024X80	24	MXT80	8	1.5	388
20	CMD20026X30	26	MXT30	3	.875	344
20	CMD20026X35	26	MXT35	3.5	.875	334

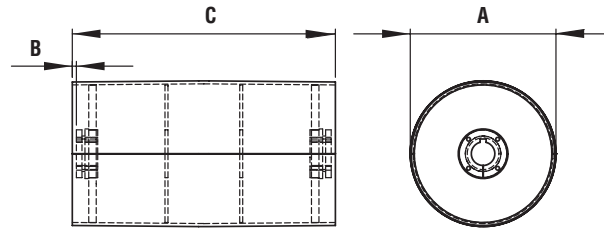
Mine Duty Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
20	CMD20026X40	26	MXT40	4	1	338
20	CMD20026X45	26	MXT45	4.5	1	338
20	CMD20030X30	30	MXT30	3	.875	397
20	CMD20030X35	30	MXT35	3.5	.875	387
20	CMD20030X40	30	MXT40	4	1	389
20	CMD20030X45	30	MXT45	4.5	1	389
20	CMD20032X30	32	MXT30	3	.875	410
20	CMD20032X35	32	MXT35	3.5	.875	400
20	CMD20032X40	32	MXT40	4	1	402
20	CMD20032X45	32	MXT45	4.5	1	402
20	CMD20036X30	36	MXT30	3	.875	436
20	CMD20036X35	36	MXT35	3.5	.875	426
20	CMD20036X40	36	MXT40	4	1	428
20	CMD20036X45	36	MXT45	4.5	1	428
20	CMD20038X30	38	MXT30	3	.875	450
20	CMD20038X35	38	MXT35	3.5	.875	439
20	CMD20038X40	38	MXT40	4	1	442
20	CMD20038X45	38	MXT45	4.5	1	442
20	CMD20038X50	38	MXT50	5	1	443
20	CMD20038X60	38	MXT60	6	1.125	449
20	CMD20040X30	40	MXT30	3	.875	489
20	CMD20040X35	40	MXT35	3.5	.875	479
20	CMD20040X40	40	MXT40	4	1	479
20	CMD20040X45	40	MXT45	4.5	1	480
20	CMD20040X50	40	MXT50	5	1	479
20	CMD20040X60	40	MXT60	6	1.125	482
20	CMD20042X30	42	MXT30	3	.875	502
20	CMD20042X35	42	MXT35	3.5	.875	492
20	CMD20042X40	42	MXT40	4	1	493
20	CMD20042X45	42	MXT45	4.5	1	493
20	CMD20044X30	44	MXT30	3	.875	515
20	CMD20044X35	44	MXT35	3.5	.875	505
20	CMD20044X40	44	MXT40	4	1	506
20	CMD20044X45	44	MXT45	4.5	1	506
20	CMD20044X50	44	MXT50	5	1	505
20	CMD20044X60	44	MXT60	6	1.125	508
20	CMD20046X30	46	MXT30	3	.875	529
20	CMD20046X35	46	MXT35	3.5	.875	518
20	CMD20046X40	46	MXT40	4	1	519
20	CMD20046X45	46	MXT45	4.5	1	519
20	CMD20046X50	46	MXT50	5	1	518
20	CMD20046X60	46	MXT60	6	1.125	521
20	CMD20051X30	51	MXT30	3	.875	561
20	CMD20051X35	51	MXT35	3.5	.875	551
20	CMD20051X40	51	MXT40	4	1	552
20	CMD20051X45	51	MXT45	4.5	1	552
20	CMD20051X50	51	MXT50	5	1	551
20	CMD20051X60	51	MXT60	6	1.125	554
20	CMD20051X70	51	MXT70	7	1.25	572

* General position for Bushing face - for position per application consult *Martin*.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.

Drum Pulleys Mine Duty



Mine Duty Drum Pulleys

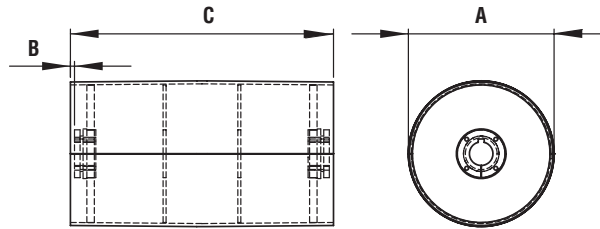
Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
20	CMD20054X30	54	MXT30	3	.875	581
20	CMD20054X35	54	MXT35	3.5	.875	571
20	CMD20054X40	54	MXT40	4	1	571
20	CMD20054X45	54	MXT45	4.5	1	571
20	CMD20054X50	54	MXT50	5	1	571
20	CMD20054X70	54	MXT70	7	1.25	592
20	CMD20057X30	57	MXT30	3	.875	601
20	CMD20057X35	57	MXT35	3.5	.875	590
20	CMD20057X40	57	MXT40	4	1	591
20	CMD20057X45	57	MXT45	4.5	1	591
20	CMD20057X50	57	MXT50	5	1	591
20	CMD20057X60	57	MXT60	6	1.125	593
20	CMD20060X30	60	MXT30	3	.875	646
20	CMD20060X35	60	MXT35	3.5	.875	636
20	CMD20060X40	60	MXT40	4	1	635
20	CMD20060X45	60	MXT45	4.5	1	635
20	CMD20063X30	63	MXT30	3	.875	666
20	CMD20063X35	63	MXT35	3.5	.875	656
20	CMD20063X40	63	MXT40	4	1	655
20	CMD20063X45	63	MXT45	4.5	1	655
20	CMD20063X50	63	MXT50	5	1	652
20	CMD20063X60	63	MXT60	6	1.125	652
20	CMD20063X70	63	MXT70	7	1.25	669
20	CMD20066X30	66	MXT30	3	.875	738
20	CMD20066X35	66	MXT35	3.5	.875	728
20	CMD20066X40	66	MXT40	4	1	723
20	CMD20066X45	66	MXT45	4.5	1	723
24	CMD24012X30	12	MXT30	3	.875	423
24	CMD24012X35	12	MXT35	3.5	.875	413
24	CMD24012X40	12	MXT40	4	1	415
24	CMD24014X30	14	MXT30	3	.875	445
24	CMD24014X35	14	MXT35	3.5	.875	435
24	CMD24014X40	14	MXT40	4	1	436
24	CMD24014X45	14	MXT45	4.5	1	436
24	CMD24016X30	16	MXT30	3	.875	466
24	CMD24016X35	16	MXT35	3.5	.875	456
24	CMD24016X40	16	MXT40	4	1	457
24	CMD24016X45	16	MXT45	4.5	1	458
24	CMD24016X50	16	MXT50	5	1	459
24	CMD24018X30	18	MXT30	3	.875	487
24	CMD24018X35	18	MXT35	3.5	.875	477
24	CMD24018X40	18	MXT40	4	1	478
24	CMD24018X45	18	MXT45	4.5	1	479
24	CMD24018X50	18	MXT50	5	1	480
24	CMD24020X30	20	MXT30	3	.875	508
24	CMD24020X35	20	MXT35	3.5	.875	498
24	CMD24020X40	20	MXT40	4	1	500
24	CMD24020X45	20	MXT45	4.5	1	500
24	CMD24020X50	20	MXT50	5	1	501

Mine Duty Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
24	CMD24022X30	22	MXT30	3	.875	529
24	CMD24022X35	22	MXT35	3.5	.875	519
24	CMD24022X40	22	MXT40	4	1	521
24	CMD24022X45	22	MXT45	4.5	1	521
24	CMD24022X50	22	MXT50	5	1	522
24	CMD24024X30	24	MXT30	3	.875	550
24	CMD24024X35	24	MXT35	3.5	.875	540
24	CMD24024X40	24	MXT40	4	1	542
24	CMD24024X45	24	MXT45	4.5	1	542
24	CMD24024X50	24	MXT50	5	1	543
24	CMD24026X30	26	MXT30	3	.875	571
24	CMD24026X35	26	MXT35	3.5	.875	561
24	CMD24026X40	26	MXT40	4	1	563
24	CMD24026X45	26	MXT45	4.5	1	563
24	CMD24026X50	26	MXT50	5	1	564
24	CMD24026X60	26	MXT60	6	1.125	569
24	CMD24030X30	30	MXT30	3	.875	653
24	CMD24030X35	30	MXT35	3.5	.875	643
24	CMD24030X40	30	MXT40	4	1	643
24	CMD24030X45	30	MXT45	4.5	1	643
24	CMD24030X50	30	MXT50	5	1	642
24	CMD24032X30	32	MXT30	3	.875	674
24	CMD24032X35	32	MXT35	3.5	.875	664
24	CMD24032X40	32	MXT40	4	1	664
24	CMD24032X45	32	MXT45	4.5	1	664
24	CMD24032X50	32	MXT50	5	1	663
24	CMD24032X60	32	MXT60	6	1.125	665
24	CMD24036X30	36	MXT30	3	.875	717
24	CMD24036X35	36	MXT35	3.5	.875	706
24	CMD24036X40	36	MXT40	4	1	706
24	CMD24036X45	36	MXT45	4.5	1	706
24	CMD24036X50	36	MXT50	5	1	705
24	CMD24036X60	36	MXT60	6	1.125	707
24	CMD24036X70	36	MXT70	7	1.25	716
24	CMD24036X80	36	MXT80	8	1.5	739
24	CMD24038X30	38	MXT30	3	.875	738
24	CMD24038X35	38	MXT35	3.5	.875	727
24	CMD24038X40	38	MXT40	4	1	727
24	CMD24038X45	38	MXT45	4.5	1	728
24	CMD24038X50	38	MXT50	5	1	726
24	CMD24038X60	38	MXT60	6	1.125	728
24	CMD24040X30	40	MXT30	3	.875	798
24	CMD24040X35	40	MXT35	3.5	.875	788
24	CMD24040X40	40	MXT40	4	1	786
24	CMD24040X45	40	MXT45	4.5	1	787
24	CMD24040X50	40	MXT50	5	1	783
24	CMD24042X30	42	MXT30	3	.875	819
24	CMD24042X35	42	MXT35	3.5	.875	809
24	CMD24042X40	42	MXT40	4	1	807

* General position for Bushing face - for position per application consult *Martin*.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.



Mine Duty Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
24	CMD24042X45	42	MXT45	4.5	1	808
24	CMD24042X50	42	MXT50	5	1	804
24	CMD24044X30	44	MXT30	3	.875	840
24	CMD24044X35	44	MXT35	3.5	.875	830
24	CMD24044X40	44	MXT40	4	1	828
24	CMD24044X45	44	MXT45	4.5	1	829
24	CMD24044X50	44	MXT50	5	1	825
24	CMD24044X60	44	MXT60	6	1.125	824
24	CMD24044X70	44	MXT70	7	1.25	829
24	CMD24046X30	46	MXT30	3	.875	861
24	CMD24046X35	46	MXT35	3.5	.875	851
24	CMD24046X40	46	MXT40	4	1	849
24	CMD24046X45	46	MXT45	4.5	1	850
24	CMD24046X50	46	MXT50	5	1	846
24	CMD24046X60	46	MXT60	6	1.125	845
24	CMD24051X30	51	MXT30	3	.875	914
24	CMD24051X35	51	MXT35	3.5	.875	904
24	CMD24051X40	51	MXT40	4	1	902
24	CMD24051X45	51	MXT45	4.5	1	902
24	CMD24051X50	51	MXT50	5	1	899
24	CMD24051X60	51	MXT60	6	1.125	897
24	CMD24051X70	51	MXT70	7	1.25	9903
24	CMD24054X30	54	MXT30	3	.875	945
24	CMD24054X35	54	MXT35	3.5	.875	935
24	CMD24054X40	54	MXT40	4	1	933
24	CMD24054X45	54	MXT45	4.5	1	934
24	CMD24054X50	54	MXT50	5	1	930
24	CMD24054X60	54	MXT60	6	1.125	929
24	CMD24054X70	54	MXT70	7	1.25	934
24	CMD24057X30	57	MXT30	3	.875	977
24	CMD24057X35	57	MXT35	3.444	.875	967
24	CMD24057X40	57	MXT40	4	1	965
24	CMD24057X45	57	MXT45	4.444	1	965
24	CMD24057X50	57	MXT50	5	1	962
24	CMD24057X60	57	MXT60	6	1.125	960
24	CMD24057X70	57	MXT70	7	1.25	966
24	CMD24057X80	57	MXT80	8	1.5	985
24	CMD24060X30	60	MXT30	3	.875	1048
24	CMD24060X35	60	MXT35	3.5	.875	1037
24	CMD24060X40	60	MXT40	4	1	1034
24	CMD24060X45	60	MXT45	4.5	1	1034
24	CMD24060X50	60	MXT50	5	1	1029
24	CMD24063X30	63	MXT30	3	.875	1079
24	CMD24063X35	63	MXT35	3.5	.875	1069
24	CMD24063X40	63	MXT40	4	1	1066
24	CMD24063X45	63	MXT45	4.5	1	1066
24	CMD24063X50	63	MXT50	5	1	1060
24	CMD24063X60	63	MXT60	6	1.125	1056
24	CMD24063X70	63	MXT70	7	1.25	1057

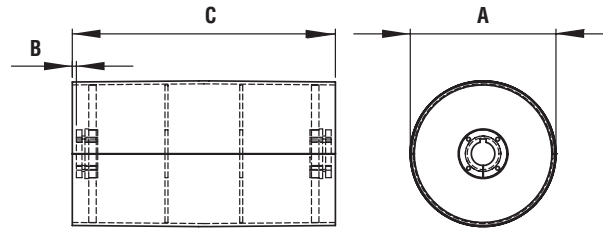
Mine Duty Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
24	CMD24063X80	63	MXT80	8	1.5	1072
24	CMD24066X30	66	MXT30	3	.875	1188
24	CMD24066X35	66	MXT35	3.5	.875	1179
24	CMD24066X40	66	MXT40	4	1	1172
24	CMD24066X45	66	MXT45	4.5	1	1172
24	CMD24066X50	66	MXT50	5	1	1162
30	CMD30012X35	12	MXT35	3.5	.875	618
30	CMD30012X40	12	MXT40	4	1	620
30	CMD30014X35	14	MXT35	3.5	.875	645
30	CMD30014X40	14	MXT40	4	1	647
30	CMD30016X35	16	MXT35	3.5	.875	671
30	CMD30016X40	16	MXT40	4	1	673
30	CMD30016X45	16	MXT45	4.5	1	673
30	CMD30016X50	16	MXT50	5	1	674
30	CMD30018X35	18	MXT35	3.5	.875	697
30	CMD30018X40	18	MXT40	4	1	700
30	CMD30018X45	18	MXT45	4.5	1	700
30	CMD30018X50	18	MXT50	5	1	701
30	CMD30020X35	20	MXT35	3.5	.875	724
30	CMD30020X40	20	MXT40	4	1	726
30	CMD30020X45	20	MXT45	4.5	1	726
30	CMD30020X50	20	MXT50	5	1	727
30	CMD30022X35	22	MXT35	3.5	.875	751
30	CMD30022X40	22	MXT40	4	1	752
30	CMD30022X45	22	MXT45	4.5	1	752
30	CMD30022X50	22	MXT50	5	1	754
30	CMD30024X35	24	MXT35	3.5	.875	777
30	CMD30024X40	24	MXT40	4	1	779
30	CMD30024X45	24	MXT45	4.5	1	779
30	CMD30024X50	24	MXT50	5	1	780
30	CMD30026X35	26	MXT35	3.5	.875	803
30	CMD30026X40	26	MXT40	4	1	805
30	CMD30026X45	26	MXT45	4.5	1	805
30	CMD30026X50	26	MXT50	5	1	806
30	CMD30030X35	30	MXT35	3.5	.875	922
30	CMD30030X40	30	MXT40	4	1	922
30	CMD30030X45	30	MXT45	4.5	1	922
30	CMD30030X50	30	MXT50	5	1	921
30	CMD30032X30	32	MXT30	3	.875	958
30	CMD30032X35	32	MXT35	3.5	.875	948
30	CMD30032X40	32	MXT40	4	1	948
30	CMD30032X45	32	MXT45	4.5	1	948
30	CMD30032X50	32	MXT50	5	1	947
30	CMD30036X35	36	MXT35	3.5	.875	1001
30	CMD30036X40	36	MXT40	4	1	1001
30	CMD30036X45	36	MXT45	4.5	1	1001
30	CMD30036X50	36	MXT50	5	1	1000
30	CMD30036X70	36	MXT70	7	1.25	1011
30	CMD30038X35	38	MXT35	3.5	.875	1027

* General position for Bushing face - for position per application consult *Martin*.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.

Drum Pulleys Mine Duty



Mine Duty Drum Pulleys

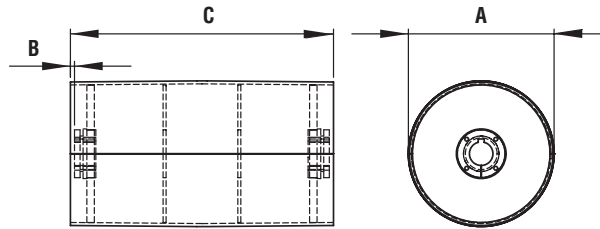
Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
30	CMD30038X40	38	MXT40	4	1	1027
30	CMD30038X45	38	MXT45	4.5	1	1027
30	CMD30038X50	38	MXT50	5	1	1026
30	CMD30038X60	38	MXT60	6	1.125	1028
30	CMD30038X70	38	MXT70	7	1.25	1037
30	CMD30040X35	40	MXT35	3.5	.875	1119
30	CMD30040X40	40	MXT40	4	1	1117
30	CMD30040X45	40	MXT45	4.5	1	1117
30	CMD30040X50	40	MXT50	5	1	1114
30	CMD30042X30	42	MXT30	3	.875	1155
30	CMD30042X35	42	MXT35	3.5	.875	1145
30	CMD30042X40	42	MXT40	4	1	113
30	CMD30042X45	42	MXT45	4.5	1	1144
30	CMD30044X35	44	MXT35	3.5	.875	1171
30	CMD30044X40	44	MXT40	4	1	1170
30	CMD30044X45	44	MXT45	4.5	1	1170
30	CMD30044X50	44	MXT50	5	1	1167
30	CMD30044X60	44	MXT60	6	1.125	1165
30	CMD30044X70	44	MXT70	7	1.25	1171
30	CMD30046X35	46	MXT35	3.5	.875	1198
30	CMD30046X40	46	MXT40	4	1	1196
30	CMD30046X45	46	MXT45	4.5	1	1196
30	CMD30046X50	46	MXT50	5	1	1193
30	CMD30046X60	46	MXT60	6	1.125	1191
30	CMD30046X80	46	MXT80	8	1.5	1216
30	CMD30051X35	51	MXT35	3.5	.875	1263
30	CMD30051X40	51	MXT40	4	1	1262
30	CMD30051X45	51	MXT45	4.5	1	1262
30	CMD30051X50	51	MXT50	5	1	1259
30	CMD30051X60	51	MXT60	6	1.125	1257
30	CMD30051X70	51	MXT70	7	1.25	1263
30	CMD30051X80	51	MXT80	8	1.5	1281
30	CMD30054X35	54	MXT35	3.5	.875	1303
30	CMD30054X40	54	MXT40	4	1	1301
30	CMD30054X45	54	MXT45	4.5	1	1301
30	CMD30054X50	54	MXT50	5	1	1298
30	CMD30054X60	54	MXT60	6	1.125	1296
30	CMD30057X35	57	MXT35	3.5	.875	1342
30	CMD30057X40	57	MXT40	4	1	1340
30	CMD30057X45	57	MXT45	4.5	1	1341
30	CMD30057X50	57	MXT50	5	1	1337
30	CMD30057X60	57	MXT60	6	1.125	1336
30	CMD30057X70	57	MXT70	7	1.25	1341
30	CMD30060X35	60	MXT35	3.5	.875	1446
30	CMD30060X40	60	MXT40	4	1	1443
30	CMD30060X45	60	MXT45	4.5	1	1443
30	CMD30060X50	60	MXT50	5	1	1438
30	CMD30063X35	63	MXT35	3.5	.875	1486
30	CMD30063X40	63	MXT40	4	1	1482

Mine Duty Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
30	CMD30063X45	63	MXT45	4.5	1	1483
30	CMD30063X50	63	MXT50	5	1	1477
30	CMD30063X60	63	MXT60	6	1.125	1473
30	CMD30063X70	63	MXT70	7	1.25	1474
30	CMD30063X80	63	MXT80	8	1.5	1489
30	CMD30066X35	66	MXT35	3.5	.875	1655
30	CMD30066X40	66	MXT40	4	1	1648
30	CMD30066X45	66	MXT45	4.5	1	1648
30	CMD30066X50	66	MXT50	5	1	1638
36	CMD36012X40	12	MXT40	4	1	865
36	CMD36014X40	14	MXT40	4	1	898
36	CMD36014X45	14	MXT45	4.5	1	898
36	CMD36016X40	16	MXT40	4	1	929
36	CMD36016X45	16	MXT45	4.5	1	929
36	CMD36016X50	16	MXT50	5	1	930
36	CMD36018X40	18	MXT40	4	1	961
36	CMD36018X45	18	MXT45	4.5	1	961
36	CMD36018X50	18	MXT50	5	1	962
36	CMD36018X60	18	MXT60	6	1.125	967
36	CMD36020X40	20	MXT40	4	1	992
36	CMD36020X45	20	MXT45	4.5	1	993
36	CMD36020X50	20	MXT50	5	1	994
36	CMD36020X60	20	MXT60	6	1.125	998
36	CMD36022X40	22	MXT40	4	1	1024
36	CMD36022X45	22	MXT45	4.5	1	1024
36	CMD36022X50	22	MXT50	5	1	1025
36	CMD36022X60	22	MXT60	6	1.125	1030
36	CMD36024X40	24	MXT40	4	1	1056
36	CMD36024X45	24	MXT45	4.5	1	1056
36	CMD36024X50	24	MXT50	5	1	1057
36	CMD36024X60	24	MXT60	6	1.125	1062
36	CMD36026X40	26	MXT40	4	1	1087
36	CMD36026X45	26	MXT45	4.5	1	1088
36	CMD36026X50	26	MXT50	5	1	1089
36	CMD36026X60	26	MXT60	6	1.125	1093
36	CMD36030X40	30	MXT40	4	1	1247
36	CMD36030X45	30	MXT45	4.5	1	1247
36	CMD36030X50	30	MXT50	5	1	1246
36	CMD36030X60	30	MXT60	6	1.125	1247
36	CMD36032X40	32	MXT40	4	1	1278
36	CMD36032X45	32	MXT45	4.5	1	1278
36	CMD36032X50	32	MXT50	5	1	1277
36	CMD36032X60	32	MXT60	6	1.125	1279
36	CMD36036X40	36	MXT40	4	1	1341
36	CMD36036X45	36	MXT45	4.5	1	1341
36	CMD36036X50	36	MXT50	5	1	1340
36	CMD36036X60	36	MXT60	6	1.125	1342
36	CMD36038X40	38	MXT40	4	1	1373
36	CMD36038X45	38	MXT45	4.5	1	1373

* General position for Bushing face - for position per application consult *Martin*.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.



Mine Duty Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
36	CMD36038X50	38	MXT50	5	1	1372
36	CMD36038X60	38	MXT60	6	1.125	1374
36	CMD36038X70	38	MXT70	7	1.25	1383
36	CMD36040X40	40	MXT40	4	1	1500
36	CMD36040X45	40	MXT45	4.5	1	1500
36	CMD36040X50	40	MXT50	5	1	1497
36	CMD36040X60	40	MXT60	6	1.125	1495
36	CMD36042X40	42	MXT40	4	1	1532
36	CMD36042X45	42	MXT45	4.5	1	1532
36	CMD36042X50	42	MXT50	5	1	1529
36	CMD36042X60	42	MXT60	6	1.125	1527
36	CMD36044X40	44	MXT40	4	1	1563
36	CMD36044X45	44	MXT45	4.5	1	1563
36	CMD36044X50	44	MXT50	5	1	1560
36	CMD36044X60	44	MXT60	6	1.125	1559
36	CMD36044X70	44	MXT70	7	1.25	1564
36	CMD36044X80	44	MXT80	8	1.5	1583
36	CMD36046X40	46	MXT40	4	1	1595
36	CMD36046X45	46	MXT45	4.5	1	1595
36	CMD36046X50	46	MXT50	5	1	1592
36	CMD36046X60	46	MXT60	6	1.125	1590
36	CMD36046X80	46	MXT80	8	1.5	1615
36	CMD36051X40	51	MXT40	4	1	1673
36	CMD36051X45	51	MXT45	4.5	1	1674
36	CMD36051X50	51	MXT50	5	1	1670
36	CMD36051X60	51	MXT60	6	1.125	1669
36	CMD36051X70	51	MXT70	7	1.25	1674
36	CMD36051X80	51	MXT80	8	1.5	1693
36	CMD36054X40	54	MXT40	4	1	1721
36	CMD36054X45	54	MXT45	4.5	1	1721
36	CMD36054X50	54	MXT50	5	1	1718
36	CMD36054X60	54	MXT60	6	1.125	1716
36	CMD36057X40	57	MXT40	4	1	1768
36	CMD36057X45	57	MXT45	4.5	1	1768
36	CMD36057X50	57	MXT50	5	1	1765
36	CMD36057X60	57	MXT60	6	1.125	1763
36	CMD36060X40	60	MXT40	4	1	1910
36	CMD36060X45	60	MXT45	4.5	1	1911
36	CMD36060X50	60	MXT50	5	1	1905
36	CMD36060X60	60	MXT60	6	1.125	1900
36	CMD36063X40	63	MXT40	4	1	1957
36	CMD36063X45	63	MXT45	4.5	1	1958
36	CMD36063X50	63	MXT50	5	1	1952
36	CMD36063X60	63	MXT60	6	1.125	1948
36	CMD36063X70	63	MXT70	7	1.25	1949
36	CMD36063X80	63	MXT80	8	1.5	1964
36	CMD36066X40	66	MXT40	4	1	2194
36	CMD36066X45	66	MXT45	4.5	1	2195
36	CMD36066X50	66	MXT50	5	1	2185

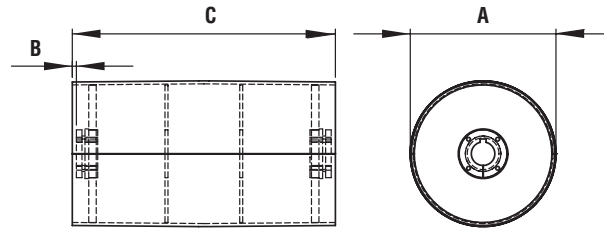
Mine Duty Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
36	CMD36066X60	66	MXT60	6	1.125	2174
42	CMD42018X40	18	MXT40	4	1	1262
42	CMD42018X45	18	MXT45	4.5	1	1262
42	CMD42018X50	18	MXT50	5	1	1263
42	CMD42018X60	18	MXT60	6	1.125	1268
42	CMD42020X40	20	MXT40	4	1	1299
42	CMD42020X45	20	MXT45	4.5	1	1299
42	CMD42020X50	20	MXT50	5	1	1300
42	CMD42020X60	20	MXT60	6	1.125	1305
42	CMD42022X40	22	MXT40	4	1	1336
42	CMD42022X45	22	MXT45	4.5	1	1336
42	CMD42022X50	22	MXT50	5	1	1337
42	CMD42022X60	22	MXT60	6	1.125	1342
42	CMD42024X40	24	MXT40	4	1	1373
42	CMD42024X45	24	MXT45	4.5	1	1373
42	CMD42024X50	24	MXT50	5	1	1374
42	CMD42024X60	24	MXT60	6	1.125	1379
42	CMD42026X40	26	MXT40	4	1	1410
42	CMD42026X45	26	MXT45	4.5	1	1410
42	CMD42026X50	26	MXT50	5	1	1411
42	CMD42026X60	26	MXT60	6	1.125	1416
42	CMD42030X40	30	MXT40	4	1	1617
42	CMD42030X45	30	MXT45	4.5	1	1618
42	CMD42030X50	30	MXT50	5	1	1616
42	CMD42030X60	30	MXT60	6	1.125	1618
42	CMD42032X40	32	MXT40	4	1	1654
42	CMD42032X45	32	MXT45	4.5	1	1654
42	CMD42032X50	32	MXT50	5	1	1653
42	CMD42032X60	32	MXT60	6	1.125	1655
42	CMD42036X40	36	MXT40	4	1	1728
42	CMD42036X45	36	MXT45	4.5	1	1728
42	CMD42036X50	36	MXT50	5	1	1727
42	CMD42036X60	36	MXT60	6	1.125	1729
42	CMD42038X40	38	MXT40	4	1	1765
42	CMD42038X45	38	MXT45	4.5	1	1765
42	CMD42038X50	38	MXT50	5	1	1764
42	CMD42038X60	38	MXT60	6	1.125	1765
42	CMD42040X40	40	MXT40	4	1	1935
42	CMD42040X45	40	MXT45	4.5	1	1935
42	CMD42040X50	40	MXT50	5	1	1932
42	CMD42040X60	40	MXT60	6	1.125	1931
42	CMD42042X40	42	MXT40	4	1	1972
42	CMD42042X45	42	MXT45	4.5	1	1972
42	CMD42042X50	42	MXT50	5	1	1969
42	CMD42042X60	42	MXT60	6	1.125	1967
42	CMD42044X40	44	MXT40	4	1	2009
42	CMD42044X45	44	MXT45	4.5	1	2009
42	CMD42044X50	44	MXT50	5	1	2006
42	CMD42044X60	44	MXT60	6	1.125	2004

* General position for Bushing face - for position per application consult *Martin*.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.

Drum Pulleys Mine Duty



Mine Duty Drum Pulleys

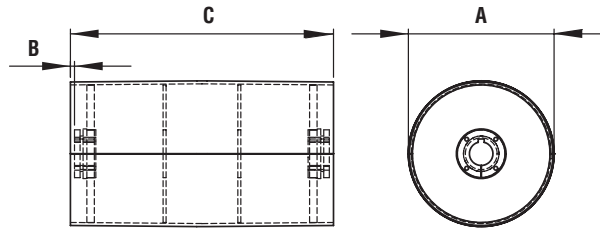
Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
42	CMD42046X40	46	MXT40	4	1	2045
42	CMD42046X45	46	MXT45	4.5	1	2046
42	CMD42046X50	46	MXT50	5	1	2042
42	CMD42046X60	46	MXT60	6	1.125	2041
42	CMD42051X40	51	MXT40	4	1	2137
42	CMD42051X45	51	MXT45	4.5	1	2138
42	CMD42051X50	51	MXT50	5	1	2134
42	CMD42051X60	51	MXT60	6	1.125	2133
42	CMD42054X40	54	MXT40	4	1	2192
42	CMD42054X45	54	MXT45	4.5	1	2193
42	CMD42054X50	54	MXT50	5	1	2189
42	CMD42054X60	54	MXT60	6	1.125	2188
42	CMD42057X40	57	MXT40	4	1	2248
42	CMD42057X45	57	MXT45	4.5	1	2248
42	CMD42057X50	57	MXT50	5	1	2245
42	CMD42057X60	57	MXT60	6	1.125	2243
42	CMD42060X40	60	MXT40	4	1	2435
42	CMD42060X45	60	MXT45	4.5	1	2436
42	CMD42060X50	60	MXT50	5	1	2430
42	CMD42060X60	60	MXT60	6	1.125	2426
42	CMD42063X40	63	MXT40	4	1	2491
42	CMD42063X45	63	MXT45	4.5	1	2491
42	CMD42063X50	63	MXT50	5	1	2485
42	CMD42063X60	63	MXT60	6	1.125	2481
42	CMD42066X40	66	MXT40	4	1	2811
42	CMD42066X45	66	MXT45	4.5	1	2811
42	CMD42066X50	66	MXT50	5	1	2801
42	CMD42066X60	66	MXT60	6	1.125	2791
48	CMD48018X40	18	MXT40	4	1	1603
48	CMD48018X45	18	MXT45	4.5	1	1604
48	CMD48018X50	18	MXT50	5	1	1605
48	CMD48018X60	18	MXT60	6	1.125	1609
48	CMD48020X40	20	MXT40	4	1	1646
48	CMD48020X45	20	MXT45	4.5	1	1646
48	CMD48020X50	20	MXT50	5	1	1647
48	CMD48020X60	20	MXT60	6	1.125	1652
48	CMD48022X40	22	MXT40	4	1	1688
48	CMD48022X45	22	MXT45	4.5	1	1688
48	CMD48022X50	22	MXT50	5	1	1689
48	CMD48022X60	22	MXT60	6	1.125	1694
48	CMD48024X40	24	MXT40	4	1	1730
48	CMD48024X45	24	MXT45	4.5	1	1730
48	CMD48024X50	24	MXT50	5	1	1731
48	CMD48024X60	24	MXT60	6	1.125	1736
48	CMD48026X40	26	MXT40	4	1	1772
48	CMD48026X45	26	MXT45	4.5	1	1772
48	CMD48026X50	26	MXT50	5	1	1773
48	CMD48026X60	26	MXT60	6	1.125	1778
48	CMD48030X40	30	MXT40	4	1	2034

Mine Duty Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
48	CMD48030X45	30	MXT45	4.5	1	2034
48	CMD48030X50	30	MXT50	5	1	2033
48	CMD48030X60	30	MXT60	6	1.125	2035
48	CMD48032X40	32	MXT40	4	1	2076
48	CMD48032X45	32	MXT45	4.5	1	2077
48	CMD48032X50	32	MXT50	5	1	2075
48	CMD48032X60	32	MXT60	6	1.125	2077
48	CMD48036X45	36	MXT45	4.5	1	2161
48	CMD48036X50	36	MXT50	5	1	2160
48	CMD48036X60	36	MXT60	6	1.125	2161
48	CMD48038X45	38	MXT45	4.5	1	2203
48	CMD48038X50	38	MXT50	5	1	2202
48	CMD48038X60	38	MXT60	6	1.125	2203
48	CMD48040X45	40	MXT45	4.5	1	2422
48	CMD48040X50	40	MXT50	5	1	2419
48	CMD48040X60	40	MXT60	6	1.125	2418
48	CMD48042X45	42	MXT45	4.5	1	2464
48	CMD48042X50	42	MXT50	5	1	2461
48	CMD48042X60	42	MXT60	6	1.125	2460
48	CMD48044X45	44	MXT45	4.5	1	2506
48	CMD48044X50	44	MXT50	5	1	2503
48	CMD48044X60	44	MXT60	6	1.125	2502
48	CMD48046X45	46	MXT45	4.5	1	2548
48	CMD48046X50	46	MXT50	5	1	2545
48	CMD48046X60	46	MXT60	6	1.125	2544
48	CMD48051X45	51	MXT45	4.5	1	2653
48	CMD48051X50	51	MXT50	5	1	2650
48	CMD48051X60	51	MXT60	6	1.125	2649
48	CMD48054X45	54	MXT45	4.5	1	2716
48	CMD48054X50	54	MXT50	5	1	2713
48	CMD48054X60	54	MXT60	6	1.125	2712
48	CMD48057X45	57	MXT45	4.5	1	2779
48	CMD48057X50	57	MXT50	5	1	2776
48	CMD48057X60	57	MXT60	6	1.125	2775
48	CMD48060X45	60	MXT45	4.5	1	3019
48	CMD48060X50	60	MXT50	5	1	3014
48	CMD48060X60	60	MXT60	6	1.125	3009
48	CMD48063X45	63	MXT45	4.5	1	3082
48	CMD48063X50	63	MXT50	5	1	3077
48	CMD48063X60	63	MXT60	6	1.125	3072
48	CMD48066X45	66	MXT45	4.5	1	3498
48	CMD48066X50	66	MXT50	5	1	3488
48	CMD48066X60	66	MXT60	6	1.125	3477
54	CMD54018X45	18	MXT45	4.5	1	1985
54	CMD54018X50	18	MXT50	5	1	1986
54	CMD54018X60	18	MXT60	6	1.125	1991
54	CMD54020X45	20	MXT45	4.5	1	2032
54	CMD54020X50	20	MXT50	5	1	2032
54	CMD54020X60	20	MXT60	6	1.125	2038

* General position for Bushing face - for position per application consult *Martin*.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.



Mine Duty Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
54	CMD54022X45	22	MXT45	4.5	1	2080
54	CMD54022X50	22	MXT50	5	1	2081
54	CMD54022X60	22	MXT60	6	1.125	2086
54	CMD54024X45	24	MXT45	4.5	1	2127
54	CMD54024X50	24	MXT50	5	1	2129
54	CMD54024X60	24	MXT60	6	1.125	2133
54	CMD54026X45	26	MXT45	4.5	1	2175
54	CMD54026X50	26	MXT50	5	1	2176
54	CMD54026X60	26	MXT60	6	1.125	2181
54	CMD54030X45	30	MXT45	4.5	1	2497
54	CMD54030X50	30	MXT50	5	1	2496
54	CMD54030X60	30	MXT60	6	1.125	2498
54	CMD54032X45	32	MXT45	4.5	1	2545
54	CMD54032X50	32	MXT50	5	1	2544
54	CMD54032X60	32	MXT60	6	1.125	2545
54	CMD54036X45	36	MXT45	4.5	1	2639
54	CMD54036X50	36	MXT50	5	1	2638
54	CMD54036X60	36	MXT60	6	1.125	2640
54	CMD54038X45	38	MXT45	4.5	1	2687
54	CMD54038X50	38	MXT50	5	1	2686
54	CMD54038X60	38	MXT60	6	1.125	2687
54	CMD54040X45	40	MXT45	4.5	1	2961
54	CMD54040X50	40	MXT50	5	1	2958
54	CMD54040X60	40	MXT60	6	1.125	2957
54	CMD54042X45	42	MXT45	4.5	1	3009
54	CMD54042X50	42	MXT50	5	1	3005
54	CMD54042X60	42	MXT60	6	1.125	3004
54	CMD54044X45	44	MXT45	4.5	1	3056
54	CMD54044X50	44	MXT50	5	1	3053
54	CMD54044X60	44	MXT60	6	1.125	3051
54	CMD54046X45	46	MXT45	4.5	1	3130
54	CMD54046X50	46	MXT50	5	1	3100
54	CMD54046X60	46	MXT60	6	1.125	3099
54	CMD54051X45	51	MXT45	4.5	1	3221
54	CMD54051X50	51	MXT50	5	1	3218
54	CMD54051X60	51	MXT60	6	1.125	3217
54	CMD54054X45	54	MXT45	4.5	1	3292
54	CMD54054X50	54	MXT50	5	1	3289
54	CMD54054X60	54	MXT60	6	1.125	3288
54	CMD54057X45	57	MXT45	4.5	1	3363
54	CMD54057X50	57	MXT50	5	1	3360
54	CMD54057X60	57	MXT60	6	1.125	3359
54	CMD54060X45	60	MXT45	4.5	1	3660
54	CMD54060X50	60	MXT50	5	1	3655
54	CMD54060X60	60	MXT60	6	1.125	3651
54	CMD54063X45	63	MXT45	4.5	1	3731
54	CMD54063X50	63	MXT50	5	1	3726
54	CMD54063X60	63	MXT60	6	1.125	3721
54	CMD54066X45	66	MXT45	4.5	1	4254

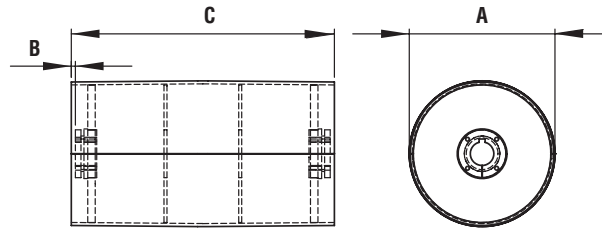
Mine Duty Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
54	CMD54066X50	66	MXT50	5	1	4244
54	CMD54066X60	66	MXT60	6	1.125	4234
60	CMD60018X45	18	MXT45	4.5	1	2406
60	CMD60018X50	18	MXT50	5	1	2408
60	CMD60018X60	18	MXT60	6	1.125	2412
60	CMD60020X45	20	MXT45	4.5	1	2459
60	CMD60020X60	20	MXT60	6	1.125	2465
60	CMD60022X45	22	MXT45	4.5	1	2512
60	CMD60022X50	22	MXT50	5	1	2513
60	CMD60022X60	22	MXT60	6	1.125	2518
60	CMD60024X45	24	MXT45	4.5	1	2565
60	CMD60024X50	24	MXT50	5	1	2566
60	CMD60024X60	24	MXT60	6	1.125	2570
60	CMD60026X45	26	MXT45	4.5	1	2617
60	CMD60026X50	26	MXT50	5	1	2618
60	CMD60026X60	26	MXT60	6	1.125	2623
60	CMD60030X45	30	MXT45	4.5	1	3005
60	CMD60030X50	30	MXT50	5	1	3005
60	CMD60030X60	30	MXT60	6	1.125	3007
60	CMD60032X45	32	MXT45	4.5	1	3060
60	CMD60032X50	32	MXT50	5	1	3058
60	CMD60032X60	32	MXT60	6	1.125	3060
60	CMD60036X50	36	MXT50	5	1	3163
60	CMD60036X60	36	MXT60	6	1.125	3165
60	CMD60038X50	38	MXT50	5	1	3216
60	CMD60038X60	38	MXT60	6	1.125	3217
60	CMD60040X50	40	MXT50	5	1	3549
60	CMD60040X60	40	MXT60	6	1.125	3548
60	CMD60042X50	42	MXT50	5	1	3602
60	CMD60042X60	42	MXT60	6	1.125	3601
60	CMD60044X50	44	MXT50	5	1	3654
60	CMD60044X60	44	MXT60	6	1.125	3653
60	CMD60046X50	46	MXT50	5	1	3707
60	CMD60046X60	46	MXT60	6	1.125	3706
60	CMD60051X50	51	MXT50	5	1	3838
60	CMD60051X60	51	MXT60	6	1.125	3837
60	CMD60054X50	54	MXT50	5	1	3917
60	CMD60054X60	54	MXT60	6	1.125	3916
60	CMD60057X50	57	MXT50	5	1	3996
60	CMD60057X60	57	MXT60	6	1.125	3994
60	CMD60060X50	60	MXT50	5	1	4355
60	CMD60060X60	60	MXT60	6	1.125	4350
60	CMD60063X50	63	MXT50	5	1	4433
60	CMD60063X60	63	MXT60	6	1.125	4429
60	CMD60066X50	66	MXT50	5	1	5071
60	CMD60066X60	66	MXT60	6	1.125	5061

* General position for Bushing face - for position per application consult *Martin*.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.

Drum Pulleys Mine Duty (Lagged)



Mine Duty Drum Pulleys (Lagged)

Dia. A	Part Number	Face C	Hub	Max Bore	Setback B*	Lagging	Approx. Weight (lb)
12	CMD12032X30L3H	32	MXT30	3	.875	.375	178
12	CMD12038X30L3H	38	MXT30	3	.875	.375	202
12	CMD12040X40L3H	40	MXT40	4	1	.375	219
12	CMD12044X30L3H	44	MXT30	3	.875	.375	235
12	CMD12051X35L4H	51	MXT35	3.5	.875	.5	273
14	CMD14032X30L3H	32	MXT30	3	.875	.375	246
14	CMD14038X35L4H	38	MXT35	3.5	.875	.5	265
14	CMD14038X40L3H	38	MXT40	4	1	.375	269
16	CMD16026X35L4H	26	MXT35	3.5	.875	.5	241
16	CMD16032X35L4H	32	MXT35	3.5	.875	.5	288
16	CMD16032X40L3H	32	MXT40	4	1	.375	290
16	CMD16038X25L4H	38	MXT25	2.5	.75	.5	322
16	CMD16038X30L3H	38	MXT30	3	.875	.375	330
16	CMD16038X30L4H	38	MXT30	3	.875	.5	331
16	CMD16038X35L4H	38	MXT35	3	.875	.5	331
16	CMD16040X50L3H	40	MXT50	5	1	.375	345
16	CMD16044X35L4H	44	MXT35	3.5	.875	.5	368
16	CMD16044X40L3H	44	MXT40	4	1	.375	367
16	CMD16044X40L4H	44	MXT40	4	1	.5	368
16	CMD16046X35L3H	46	MXT35	5	1	.375	377
16	CMD16051X40L4H	51	MXT40	4	1	.5	406
18	CMD18032X30L3H	32	MXT30	3	.875	.375	353
18	CMD18032X35L4H	32	MXT35	3.5	.875	.5	344
18	CMD18038X35L4H	38	MXT35	3.5	.875	.5	380
18	CMD18038X40L3H	38	MXT40	4	1	.375	381
18	CMD18040X45L3H	40	MXT45	4.5	1	.375	412

Mine Duty Drum Pulleys (Lagged)

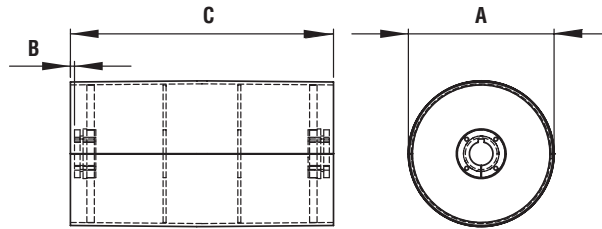
Dia. A	Part Number	Face C	Hub	Max Bore	Setback B*	Lagging	Approx. Weight (lb)
18	CMD18044X40L3H	44	MXT40	4	1	.375	436
18	CMD18044X40L4H	44	MXT40	4	1	.5	438
18	CMD18044X45L4H	44	MXT45	4.5	1	.5	438
18	CMD18046X50L3H	46	MXT50	5	1	.375	448
18	CMD18051X45L4H	51	MXT45	4.5	1	.5	480
20	CMD20026X35L4H	26	MXT35	3.5	.875	.5	337
20	CMD20032X35L4H	32	MXT35	3.5	.875	.5	404
20	CMD20032X40L3H	32	MXT40	4	1	.375	405
20	CMD20032X40L4H	32	MXT40	4	1	.5	407
20	CMD20038X40L3H	38	MXT40	4	1	.375	445
20	CMD20038X40L4H	38	MXT40	4	1	.5	447
20	CMD20044X40L4H	44	MXT40	4	1	.5	512
20	CMD20044X45L3H	44	MXT45	4.5	1	.375	510
20	CMD20044X45L4H	44	MXT45	4	1	.5	512
20	CMD20046X50L3H	46	MXT50	5	1	.375	524
20	CMD20051X45L4H	51	MXT45	4.5	1	.5	559
20	CMD20057X50L4H	57	MXT50	5	1	.5	598
24	CMD24032X40L3H	32	MXT40	4	1	.375	668
24	CMD24032X45L4H	32	MXT45	4.5	1	.5	670
24	CMD24038X40L3H	38	MXT40	4	1	.375	732
24	CMD24038X45L4H	38	MXT45	4.5	1	.5	774
24	CMD24040X50L3H	40	MXT50	5	1	.375	791
24	CMD24044X45L3H	44	MXT45	4.5	1	.375	834
24	CMD24044X45L4H	44	MXT45	4.5	1	.5	836
24	CMD24046X60L3H	46	MXT60	4.5	1.125	.375	855
24	CMD24051X50L4H	51	MXT50	5	1	.5	907



Custom Shafting Available!

* General position for Bushing face - for position per application consult *Martin*.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.



Mine Duty Drum Pulleys – M-HE Bushed

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
10	CMD10026H30	26	M-HE30	3	.875	111
10	CMD10032H30	32	M-HE30	3	.875	136
10	CMD10044H30	44	M-HE30	3	.875	181
10	CMD10051H35	51	M-HE35	3.5	.875	202
12	CMD12026H30	26	M-HE30	3	.875	148
12	CMD12026H35	26	M-HE35	3.5	.875	147
12	CMD12026H40	26	M-HE40	4	1	153
12	CMD12032H30	32	M-HE30	3	.875	180
12	CMD12032H35	32	M-HE35	3.5	.875	178
12	CMD12032H40	32	M-HE40	4	1	184
12	CMD12038H30	38	M-HE30	3	.875	204
12	CMD12038H35	38	M-HE35	3.5	.875	202
12	CMD12038H40	38	M-HE40	4	1	208
12	CMD12040H40	40	M-HE40	4	1	222
12	CMD12044H30	44	M-HE30	3	.875	236
12	CMD12044H35	44	M-HE35	3.5	.875	233
12	CMD12046H30	46	M-HE30	3	.875	244
12	CMD12051H30	51	M-HE30	3	.875	263
12	CMD12051H35	51	M-HE35	3.5	.875	261
12	CMD12051H40	51	M-HE40	4	1	266
12	CMD12057H30	57	M-HE30	3	.875	287
12	CMD12057H35	57	M-HE35	3.5	.875	285
12	CMD12057H45	57	M-HE45	4.5	1	293
12	CMD12063H30	63	M-HE30	3	.875	319
12	CMD12063H35	63	M-HE35	3.5	.875	316
14	CMD14026H30	26	M-HE30	3	.875	195
14	CMD14026H35	26	M-HE35	3.5	.875	195
14	CMD14032H30	32	M-HE30	3	.875	233
14	CMD14032H35	32	M-HE35	3.5	.875	233
14	CMD14032H40	32	M-HE40	4	1	237
14	CMD14038H30	38	M-HE30	3	.875	261
14	CMD14038H35	38	M-HE35	3.5	.875	260
14	CMD14038H40	38	M-HE40	4	1	265
14	CMD14040H30	40	M-HE30	3	.875	281
14	CMD14044H30	44	M-HE30	3	.875	299
14	CMD14044H35	44	M-HE35	3.5	.875	298
14	CMD14044H40	44	M-HE40	4	1	303
14	CMD14046H40	46	M-HE40	4	1	313
14	CMD14051H30	51	M-HE30	3	.875	331
14	CMD14051H35	51	M-HE35	3.5	.875	330
14	CMD14051H40	51	M-HE40	4	1	336
14	CMD14051H50	51	M-HE50	5	1	343
14	CMD14063H30	63	M-HE30	3	.875	396
14	CMD14063H35	63	M-HE35	3.5	.875	396
16	CMD16020H30	20	M-HE30	3	.875	206
16	CMD16026H30	26	M-HE30	3	.875	238
16	CMD16026H35	26	M-HE35	3.5	.875	237
16	CMD16032H30	32	M-HE30	3	.875	285
16	CMD16032H35	32	M-HE35	3.5	.875	284

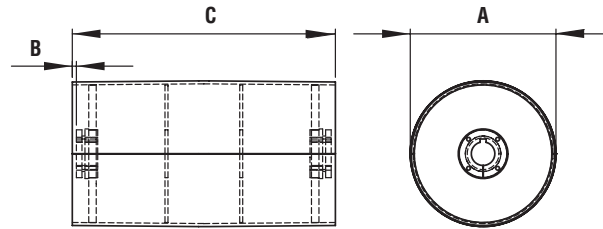
Mine Duty Drum Pulleys – M-HE Bushed

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
16	CMD16032H40	32	M-HE40	4	1	286
16	CMD16038H30	38	M-HE30	3	.875	316
16	CMD16038H35	38	M-HE35	3.5	.875	315
16	CMD16038H40	38	M-HE40	4	1	618
16	CMD16038H45	38	M-HE45	4.5	1	322
16	CMD16038H50	38	M-HE50	5	1	329
16	CMD16040H30	40	M-HE30	3	.875	342
16	CMD16040H35	40	M-HE35	3.5	.875	341
16	CMD16040H40	40	M-HE40	4	1	342
16	CMD16040H50	40	M-HE50	5	1	353
16	CMD16044H30	44	M-HE30	3	.875	363
16	CMD16044H35	44	M-HE35	3.5	.875	362
16	CMD16044H40	44	M-HE40	4	1	363
16	CMD16044H50	44	M-HE50	5	1	374
16	CMD16046H40	46	M-HE40	4	1	373
16	CMD16046H50	46	M-HE50	5	1	385
16	CMD16051H30	51	M-HE30	3	.875	400
16	CMD16051H35	51	M-HE35	3.5	.875	399
16	CMD16051H40	51	M-HE40	4	1	400
16	CMD16051H45	51	M-HE45	4.5	1	403
16	CMD16051H50	51	M-HE50	5	1	411
16	CMD16054H40	54	M-HE40	4	1	415
16	CMD16057H40	57	M-HE40	4	1	431
16	CMD16057H45	57	M-HE45	4.5	1	434
16	CMD16057H60	57	M-HE60	6	1.125	458
16	CMD16063H30	63	M-HE30	3	.875	477
16	CMD16063H35	63	M-HE35	3.5	.875	477
16	CMD16063H40	63	M-HE40	4	1	476
16	CMD16063H45	63	M-HE45	4.5	1	478
18	CMD18026H35	26	M-HE35	3.5	.875	283
18	CMD18026H40	26	M-HE40	4	1	287
18	CMD18026H45	26	M-HE45	4.5	1	292
18	CMD18026H50	26	M-HE50	5	1	298
18	CMD18032H30	32	M-HE30	3	.875	340
18	CMD18032H35	32	M-HE35	3.5	.875	339
18	CMD18032H40	32	M-HE40	4	1	342
18	CMD18032H45	32	M-HE45	4.5	1	346
18	CMD18036H40	36	M-HE40	4	1	365
18	CMD18036H50	36	M-HE50	5	1	374
18	CMD18038H30	38	M-HE30	3	.875	376
18	CMD18038H35	38	M-HE35	3.5	.875	378
18	CMD18038H40	38	M-HE40	4	1	377
18	CMD18038H45	38	M-HE45	4.5	1	381
18	CMD18038H50	38	M-HE50	5	1	386
18	CMD18040H30	40	M-HE30	3	.875	408
18	CMD18040H35	40	M-HE35	3.5	.875	407
18	CMD18040H40	40	M-HE40	4	1	408
18	CMD18040H45	40	M-HE45	4.5	1	411
18	CMD18044H30	44	M-HE30	3	.875	431

* General position for Bushing face - for position per application consult *Martin*.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.

Drum Pulleys Mine Duty — M-HE Bushed



Mine Duty Drum Pulleys – M-HE Bushed

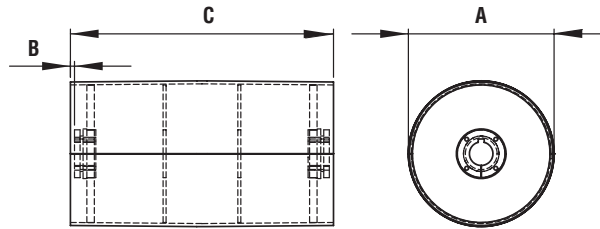
Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
18	CMD18044H35	44	M-HE35	3.5	.875	431
18	CMD18044H40	44	M-HE40	4	1	432
18	CMD18044H45	44	M-HE45	4.5	1	435
18	CMD18044H50	44	M-HE50	5	1	438
18	CMD18044H60	44	M-HE60	6	1.125	458
18	CMD18046H30	46	M-HE30	3	.875	443
18	CMD18046H35	46	M-HE35	3.5	.875	443
18	CMD18046H40	46	M-HE40	4	1	443
18	CMD18046H45	46	M-HE45	4.5	1	446
18	CMD18046H50	46	M-HE50	5	1	450
18	CMD18051H30	51	M-HE30	3	.875	473
18	CMD18051H35	51	M-HE35	3.5	.875	472
18	CMD18051H40	51	M-HE40	4	1	473
18	CMD18051H45	51	M-HE45	4.5	1	476
18	CMD18051H50	51	M-HE50	5	1	479
18	CMD18051H60	51	M-HE60	6	1.125	500
18	CMD18057H35	57	M-HE35	3.5	.875	507
18	CMD18057H40	57	M-HE40	4	1	508
18	CMD18057H45	57	M-HE45	4.5	1	511
18	CMD18057H50	57	M-HE50	5	1	515
18	CMD18057H60	57	M-HE60	6	1.125	535
18	CMD18063H35	63	M-HE35	3.5	.875	563
18	CMD18063H40	63	M-HE40	4	1	562
18	CMD18063H45	63	M-HE45	4.5	1	564
18	CMD18063H50	63	M-HE50	5	1	566
18	CMD18066H50	66	M-HE50	5	1	617
20	CMD20024H60	24	M-HE60	6	1.125	354
20	CMD20024H70	24	M-HE70	7	1.25	356
20	CMD20024H80	24	M-HE80	8	1.5	387
20	CMD20026H30	26	M-HE30	3	.875	334
20	CMD20026H35	26	M-HE35	3.5	.875	333
20	CMD20026H40	26	M-HE40	4	1	337
20	CMD20032H30	32	M-HE30	3	.875	400
20	CMD20032H35	32	M-HE35	3.5	.875	399
20	CMD20032H40	32	M-HE40	4	1	401
20	CMD20032H45	32	M-HE45	4.5	1	405
20	CMD20038H30	38	M-HE30	3	.875	439
20	CMD20038H35	38	M-HE35	3.5	.875	438
20	CMD20038H40	38	M-HE40	4	1	441
20	CMD20038H45	38	M-HE45	4.5	1	445
20	CMD20038H50	38	M-HE50	5	1	450
20	CMD20038H60	38	M-HE60	6	1.125	466
20	CMD20040H30	40	M-HE30	3	.875	479
20	CMD20040H35	40	M-HE35	3.5	.875	478
20	CMD20040H40	40	M-HE40	4	1	479
20	CMD20040H45	40	M-HE45	4.5	1	482
20	CMD20040H50	40	M-HE50	5	1	485
20	CMD20040H60	40	M-HE60	6	1.125	498
20	CMD20044H30	44	M-HE30	3	.875	505

Mine Duty Drum Pulleys – M-HE Bushed

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
20	CMD20044H35	44	M-HE35	3.5	.875	504
20	CMD20044H40	44	M-HE40	4	1	505
20	CMD20044H45	44	M-HE45	4.5	1	508
20	CMD20044H50	44	M-HE50	5	1	512
20	CMD20044H60	44	M-HE60	6	1.125	525
20	CMD20046H35	46	M-HE35	3.5	.875	517
20	CMD20046H40	46	M-HE40	4	1	518
20	CMD20046H45	46	M-HE45	4.5	1	521
20	CMD20046H50	46	M-HE50	5	1	525
20	CMD20046H60	46	M-HE60	6	1.125	538
20	CMD20051H30	51	M-HE30	3	.875	551
20	CMD20051H35	51	M-HE35	3.5	.875	550
20	CMD20051H40	51	M-HE40	4	1	551
20	CMD20051H45	51	M-HE45	4.5	1	554
20	CMD20051H50	51	M-HE50	5	1	558
20	CMD20051H60	51	M-HE60	6	1.125	561
20	CMD20051H70	51	M-HE70	7	1.25	571
20	CMD20054H40	54	M-HE40	4	1	571
20	CMD20054H45	54	M-HE45	4.5	1	574
20	CMD20054H50	54	M-HE50	5	1	577
20	CMD20054H70	54	M-HE70	7	1.25	592
20	CMD20057H40	57	M-HE40	4	1	590
20	CMD20057H45	57	M-HE45	4.5	1	593
20	CMD20057H50	57	M-HE50	5	1	597
20	CMD20057H60	57	M-HE60	6	1.125	610
20	CMD20063H40	63	M-HE40	4	1	654
20	CMD20063H45	63	M-HE45	4.5	1	656
20	CMD20063H50	63	M-HE50	5	1	658
20	CMD20063H60	63	M-HE60	6	1.125	668
20	CMD20063H70	63	M-HE70	7	1.25	669
24	CMD24026H30	26	M-HE30	3	.875	561
24	CMD24026H35	26	M-HE35	3.5	.875	560
24	CMD24026H40	26	M-HE40	4	1	562
24	CMD24026H60	26	M-HE60	6	1.125	585
24	CMD24032H30	32	M-HE30	3	.875	664
24	CMD24032H35	32	M-HE35	3.5	.875	663
24	CMD24032H40	32	M-HE40	4	1	664
24	CMD24032H45	32	M-HE45	4.5	1	666
24	CMD24032H50	32	M-HE50	5	1	670
24	CMD24032H60	32	M-HE60	6	1.125	681
24	CMD24036H60	36	M-HE60	6	1.125	710
24	CMD24036H70	36	M-HE70	7	1.25	716
24	CMD24036H80	36	M-HE80	8	1.5	739
24	CMD24038H30	38	M-HE30	3	.875	727
24	CMD24038H35	38	M-HE35	3.5	.875	727
24	CMD24038H40	38	M-HE40	4	1	727
24	CMD24038H45	38	M-HE45	4.5	1	730
24	CMD24038H50	38	M-HE50	5	1	733
24	CMD24038H60	38	M-HE60	6	1.125	745

* General position for Bushing face - for position per application consult *Martin*.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.



Mine Duty Drum Pulleys – M-HE Bushed

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
24	CMD24040H35	40	M-HE35	3.5	.875	787
24	CMD24040H40	40	M-HE40	4	1	786
24	CMD24040H45	40	M-HE45	4.5	1	788
24	CMD24040H50	40	M-HE50	5	1	790
24	CMD24044H30	44	M-HE30	3	.875	830
24	CMD24044H35	44	M-HE35	3.5	.875	830
24	CMD24044H40	44	M-HE40	4	1	828
24	CMD24044H45	44	M-HE45	4.5	1	830
24	CMD24044H50	44	M-HE50	5	1	832
24	CMD24044H60	44	M-HE60	6	1.125	840
24	CMD24044H70	44	M-HE70	7	1.25	845
24	CMD24046H35	46	M-HE35	3.5	.875	850
24	CMD24046H40	46	M-HE40	4	1	849
24	CMD24046H45	46	M-HE45	4.5	1	851
24	CMD24046H50	46	M-HE50	5	1	853
24	CMD24046H60	46	M-HE60	6	1.125	861
24	CMD24051H30	51	M-HE30	3	.875	904
24	CMD24051H35	51	M-HE35	3.5	.875	903
24	CMD24051H40	51	M-HE40	4	1	901
24	CMD24051H45	51	M-HE45	4.5	1	903
24	CMD24051H50	51	M-HE50	5	1	905
24	CMD24051H60	51	M-HE60	6	1.125	914
24	CMD24051H70	51	M-HE70	7	1.25	902
24	CMD24054H40	54	M-HE40	4	1	933
24	CMD24054H45	54	M-HE45	4.5	1	935
24	CMD24054H50	54	M-HE50	5	1	937
24	CMD24054H60	54	M-HE60	6	1.125	946
24	CMD24054H70	54	M-HE70	7	1.25	939
24	CMD24057H35	57	M-HE35	3.5	.875	966
24	CMD24057H40	57	M-HE40	4	1	964
24	CMD24057H45	57	M-HE45	4.5	1	966
24	CMD24057H50	57	M-HE50	5	1	968
24	CMD24057H60	57	M-HE60	6	1.125	977
24	CMD24057H70	57	M-HE70	7	1.25	965
24	CMD24057H80	57	M-HE80	8	1.5	984
24	CMD24063H35	63	M-HE35	3.5	.875	1068
24	CMD24063H40	63	M-HE40	4	1	1065
24	CMD24063H45	63	M-HE45	4.5	1	1066
24	CMD24063H50	63	M-HE50	5	1	1067
24	CMD24063H60	63	M-HE60	6	1.125	1072
24	CMD24063H70	63	M-HE70	7	1.25	1057
24	CMD24063H80	63	M-HE80	8	1.5	1072
30	CMD30032H30	32	M-HE30	3	.875	948
30	CMD30032H35	32	M-HE35	3.5	.875	947
30	CMD30032H40	32	M-HE40	4	1	948
30	CMD30032H45	32	M-HE45	4.5	1	950
30	CMD30036H70	36	M-HE70	7	1.25	1010
30	CMD30038H40	38	M-HE40	4	1	1027
30	CMD30038H45	38	M-HE45	4.5	1	1029

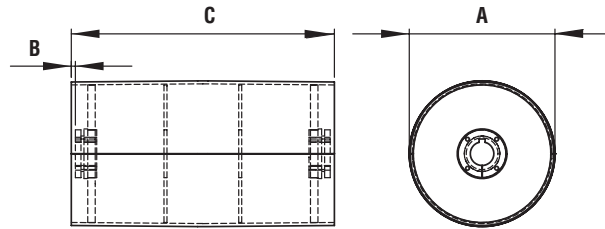
Mine Duty Drum Pulleys – M-HE Bushed

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
30	CMD30038H50	38	M-HE50	5	1	1033
30	CMD30038H60	38	M-HE60	6	1.125	1044
30	CMD30038H70	38	M-HE70	7	1.25	1037
30	CMD30040H50	40	M-HE50	5	1	1120
30	CMD30044H40	44	M-HE40	4	1	1169
30	CMD30044H45	44	M-HE45	4.5	1	1171
30	CMD30044H50	44	M-HE50	5	1	1173
30	CMD30044H60	44	M-HE60	6	1.125	1182
30	CMD30044H70	44	M-HE70	7	1.25	1170
30	CMD30046H60	46	M-HE60	6	1.125	1208
30	CMD30046H80	46	M-HE80	8	1.5	1215
30	CMD30051H40	51	M-HE40	4	1	1261
30	CMD30051H45	51	M-HE45	4.5	1	1263
30	CMD30051H50	51	M-HE50	5	1	1265
30	CMD30051H60	51	M-HE60	6	1.125	1274
30	CMD30051H70	51	M-HE70	7	1.25	1262
30	CMD30051H80	51	M-HE80	8	1.5	1281
30	CMD30054H60	54	M-HE60	6	1.125	1313
30	CMD30057H50	57	M-HE50	5	1	1344
30	CMD30057H60	57	M-HE60	6	1.125	1353
30	CMD30057H70	57	M-HE70	7	1.25	1341
30	CMD30063H45	63	M-HE45	4.5	1	1483
30	CMD30063H50	63	M-HE50	5	1	1848
30	CMD30063H60	63	M-HE60	6	1.125	1489
30	CMD30063H70	63	M-HE70	7	1.25	1474
30	CMD30063H80	63	M-HE80	8	1.5	1489
32	CMD32032H60	32	M-HE60	6	1.125	1070
36	CMD36038H70	38	M-HE70	7	1.25	1383
36	CMD36044H45	44	M-HE45	4.5	1	1565
36	CMD36044H50	44	M-HE50	5	1	1566
36	CMD36044H60	44	M-HE60	6	1.125	1575
36	CMD36044H70	44	M-HE70	7	1.25	1564
36	CMD36044H80	44	M-HE80	8	1.5	1583
36	CMD36046H80	46	M-HE80	8	1.5	1614
36	CMD36051H50	51	M-HE50	5	1	1677
36	CMD36051H60	51	M-HE60	6	1.125	1687
36	CMD36051H70	51	M-HE70	7	1.25	1674
36	CMD36051H80	51	M-HE80	8	1.5	1693
36	CMD36054H60	54	M-HE60	6	1.125	1733
36	CMD36057H60	57	M-HE60	6	1.125	1780
36	CMD36063H60	63	M-HE60	6	1.125	1965
36	CMD36063H70	63	M-HE70	7	1.25	1949
36	CMD36063H80	63	M-HE80	8	1.5	1964

* General position for Bushing face - for position per application consult *Martin*.
BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.

Drum Pulleys

Mine Duty — M-HE Bushed (Lagged)



Standard Duty Drum Pulleys (Lagged)

Dia. A	Part Number	Face C	Hub	Max Bore	Setback B*	Lagging	Approx. Weight (lb)
12	CMD12026H35L3H	26	M-HE35	35	.875	.375	151
12	CMD12032H25L3H	32	M-HE25	25	.75	.375	178
12	CMD12032H35L3H	32	M-HE35	3.5	.875	.375	167
12	CMD12038H25L3H	38	M-HE25	25	.75	.375	202
12	CMD12038H35L3H	38	M-HE35	35	.875	.375	224
12	CMD12040H30L3H	40	M-HE30	3	.875	.375	222
12	CMD12044H25L3H	44	M-HE25	25	.75	.375	235
14	CMD14032H25L3H	32	M-HE25	25	.75	.375	237
14	CMD14038H30L3H	38	M-HE30	3	.875	.375	264
14	CMD14038H35L3H	38	M-HE35	35	.875	.375	299
16	CMD16026H35L3H	26	M-HE35	35	.875	.375	281
16	CMD16032H30L3H	32	M-HE30	3	.875	.375	287
16	CMD16032H35L3H	32	M-HE35	35	.875	.375	312
16	CMD16038H30L3H	38	M-HE30	3	.875	.375	319
16	CMD16038H35L3H	38	M-HE35	35	.875	.375	315
16	CMD16040H35L3H	40	M-HE35	35	.875	.375	344
16	CMD16044H30L3H	44	M-HE30	3	.875	.375	366
16	CMD16044H40L3H	44	M-HE40	4	1	.375	375
16	CMD16046H40L3H	46	M-HE40	4	1	.375	377
18	CMD18026H35L3H	26	M-HE35	35	.875	.375	384
18	CMD18032H30L3H	32	M-HE30	3	.875	.375	343
18	CMD18032H40L3H	32	M-HE40	4	.875	.375	385
18	CMD18038H40L3H	38	M-HE40	4	1	.375	379
18	CMD18040H30L3H	40	M-HE30	3	.875	.375	412
18	CMD18044H40L3H	44	M-HE40	4	1	.375	436
18	CMD18046H40L3H	46	M-HE40	4	1	.375	448
20	CMD20032H35L3H	32	M-HE35	35	.875	.375	402
20	CMD20038H40L3H	38	M-HE40	4	1	.375	442
20	CMD20044H40L3H	44	M-HE40	4	1	.375	510
20	CMD20046H45L3H	46	M-HE45	45	1	.375	526
24	CMD24032H40L3H	32	M-HE40	4	1	.375	668
24	CMD24038H40L3H	38	M-HE40	4	1	.375	734
24	CMD24040H40L3H	40	M-HE40	4	1	.375	791
24	CMD24044H40L3H	44	M-HE40	4	1	.375	833
24	CMD24046H45L3H	46	M-HE45	45	1	.375	856



Custom Shafting Available!

* General position for Bushing face - for position per application consult *Martin*.

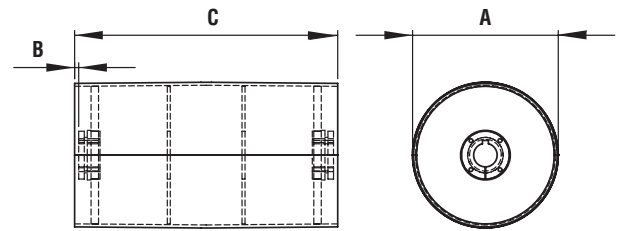
BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.

Martin offers Quarry Duty Drum Pulleys using a minimum .5" rim, 1.25" end discs, and .5" center discs, as well as an additional center disc. Each Quarry Duty Drum Pulley features a rolled rim, which has been fabricated on either of our flat or custom crowned roll machines. The rims are trimmed and hydraulically seated around the heavy end discs to ensure maximum concentricity. Once the Pulley is formed, *Martin* utilizes a double or triple pass submerged arc weldment to ensure optimum connection of its individual components.

Features:

- 12" to 60" Diameter
- .5" Minimum Rim Thickness
- 1.25" and Heavier End Discs
- .5" Center Plates
- Full Depth Key Bushings
- Double Sub-Arc Weldments

Martin's Quarry Duty Drum Pulleys are manufactured with Crown face. Flat face available upon request.



Quarry Duty Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
12	CQD12026X35	26	MXT35	3.5	.875	188
12	CQD12032X35	32	MXT35	3.5	.875	240
12	CQD12038X35	38	MXT35	3.5	.875	271
12	CQD12044X35	44	MXT35	3.5	.875	313
12	CQD12051X35	51	MXT35	3.5	.875	350
12	CQD12057X35	57	MXT35	3.5	.875	382
12	CQD12063X35	63	MXT35	3.5	.875	424
14	CQD14026X35	26	MXT35	3.5	.875	246
14	CQD14032X35	32	MXT35	3.5	.875	310
14	CQD14038X35	38	MXT35	3.5	.875	346
14	CQD14044X35	44	MXT35	3.5	.875	396
14	CQD14051X35	51	MXT35	3.5	.875	439
14	CQD14057X35	57	MXT35	3.5	.875	481
14	CQD14063X35	63	MXT35	3.5	.875	532
16	CQD16026X35	26	MXT35	3.5	.875	300
16	CQD16026X40	26	MXT40	4	1	302
16	CQD16032X35	32	MXT35	3.5	.875	381
16	CQD16032X40	32	MXT40	4	1	378
16	CQD16038X35	38	MXT35	3.5	.875	423
16	CQD16038X40	38	MXT40	4	1	420
16	CQD16044X35	44	MXT35	3.5	.875	484
16	CQD16044X40	44	MXT40	4	1	479
16	CQD16051X35	51	MXT35	3.5	.875	533
16	CQD16051X40	51	MXT40	4	1	528
16	CQD16057X35	57	MXT35	3.5	.875	575
16	CQD16057X40	57	MXT40	4	1	571
16	CQD16063X40	63	MXT40	4	1	629
16	CQD16063X35	63	MXT35	3.5	.875	636
18	CQD18026X35	26	MXT35	3.5	.875	359
18	CQD18026X40	26	MXT40	4	1	360
18	CQD18032X35	32	MXT35	3.5	.875	459
18	CQD18032X40	32	MXT40	4	1	456

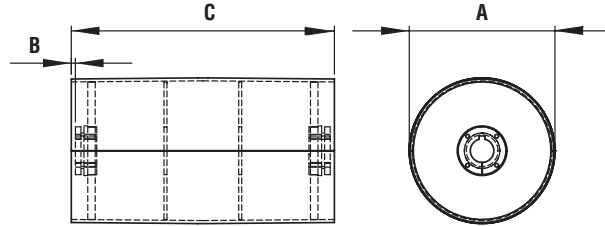
Quarry Duty Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
18	CQD18038X35	38	MXT35	3.5	.875	506
18	CQD18038X40	38	MXT40	4	1	504
18	CQD18044X35	44	MXT35	3.5	.875	580
18	CQD18044X40	44	MXT40	4	1	575
18	CQD18051X35	51	MXT35	3.5	.875	635
18	CQD18051X40	51	MXT40	4	1	630
18	CQD18057X35	57	MXT35	3.5	.875	682
18	CQD18057X40	57	MXT40	4	1	677
18	CQD18063X35	63	MXT35	3.5	.875	755
18	CQD18063X40	63	MXT40	4	1	748
20	CQD20026X35	26	MXT35	3.5	.875	421
20	CQD20032X35	32	MXT35	3.5	.875	543
20	CQD20032X40	32	MXT40	4	1	540
20	CQD20032X45	32	MXT45	4.5	1	541
20	CQD20038X35	38	MXT35	3.5	.875	560
20	CQD20038X40	38	MXT40	4	1	593
20	CQD20038X45	38	MXT45	4.5	1	593
20	CQD20044X35	44	MXT35	3.5	.875	682
20	CQD20044X40	44	MXT40	4	1	677
20	CQD20044X45	44	MXT45	4.5	1	677
20	CQD20051X35	51	MXT35	3.5	.875	744
20	CQD20051X40	51	MXT40	4	1	738
20	CQD20051X45	51	MXT45	4.5	1	739
20	CQD20057X35	57	MXT35	3.5	.875	796
20	CQD20057X40	57	MXT40	4	1	791
20	CQD20057X45	57	MXT45	4.5	1	791
20	CQD20063X35	63	MXT35	3.5	.875	882
20	CQD20063X40	63	MXT40	4	1	875
20	CQD20063X45	63	MXT45	4.5	1	875
24	CQD24026X35	26	MXT35	3.5	.875	561
24	CQD24026X40	26	MXT40	4	1	563
24	CQD24026X45	26	MXT45	4.5	1	563

* General position for Bushing face - for position per application consult *Martin*.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.

Drum Pulleys Quarry Duty



Quarry Duty Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
24	CQD24032X35	32	MXT35	3.5	.875	730
24	CQD24032X40	32	MXT40	4	1	727
24	CQD24032X45	32	MXT45	4.5	1	727
24	CQD24038X35	38	MXT35	3.5	.875	793
24	CQD24038X40	38	MXT40	4	1	790
24	CQD24038X45	38	MXT45	4.5	1	790
24	CQD24044X35	44	MXT35	3.5	.875	909
24	CQD24044X40	44	MXT40	4	1	904
24	CQD24044X45	44	MXT45	4.5	1	904
24	CQD24051X35	51	MXT35	3.5	.875	982
24	CQD24051X40	51	MXT40	4	1	977
24	CQD24051X45	51	MXT45	4.5	1	977
24	CQD24057X35	57	MXT35	3.5	.875	1,045
24	CQD24057X40	57	MXT40	4	1	1,040
24	CQD24057X45	57	MXT45	4.5	1	1,040
24	CQD24063X35	63	MXT35	3.5	.875	1,160
24	CQD24063X40	63	MXT40	4	1	1,153
24	CQD24063X45	63	MXT45	4.5	1	1,153
30	CQD30026X40	26	MXT40	4	1	805
30	CQD30026X45	26	MXT45	4.5	1	805
30	CQD30026X50	26	MXT50	5	1	806
30	CQD30032X40	32	MXT40	4	1	1,054
30	CQD30032X45	32	MXT45	4.5	1	1,055
30	CQD30032X50	32	MXT50	5	1	1,050
30	CQD30038X40	38	MXT40	4	1	1,133
30	CQD30038X45	38	MXT45	4.5	1	1,133
30	CQD30038X50	38	MXT50	5	1	1,128
30	CQD30044X40	44	MXT40	4	1	1,297
30	CQD30044X45	44	MXT45	4.5	1	1,297
30	CQD30044X50	44	MXT50	5	1	1,289
30	CQD30051X40	51	MXT40	4	1	1,388
30	CQD30051X45	51	MXT45	4.5	1	1,388
30	CQD30051X50	51	MXT50	5	1	1,381
30	CQD30057X40	57	MXT40	4	1	1,467
30	CQD30057X45	57	MXT45	4.5	1	1,467
30	CQD30057X50	57	MXT50	5	1	1,459
30	CQD30063X40	63	MXT40	4	1	1,629
30	CQD30063X45	63	MXT45	4.5	1	1,630
30	CQD30063X50	63	MXT50	5	1	1,619
36	CQD36026X40	26	MXT40	4	1	1,087
36	CQD36026X45	26	MXT45	4.5	1	1,087
36	CQD36026X50	26	MXT50	5	1	1,088
36	CQD36032X40	32	MXT40	4	1	1,438
36	CQD36032X45	32	MXT45	4.5	1	1,438
36	CQD36032X50	32	MXT50	5	1	1,433
36	CQD36038X40	38	MXT40	4	1	1,532
36	CQD36038X45	38	MXT45	4.5	1	1,532
36	CQD36038X50	38	MXT50	5	1	1,527
36	CQD36044X40	44	MXT40	4	1	1,754

Quarry Duty Drum Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
36	CQD36044X45	44	MXT45	4.5	1	1,754
36	CQD36044X50	44	MXT50	5	1	1,746
36	CQD36051X40	51	MXT40	4	1	1,864
36	CQD36051X45	51	MXT45	4.5	1	1,864
36	CQD36051X50	51	MXT50	5	1	1,856
36	CQD36057X40	57	MXT40	4	1	1,958
36	CQD36057X45	57	MXT45	4.5	1	1,958
36	CQD36057X50	57	MXT50	5	1	1,950
36	CQD36063X40	63	MXT40	4	1	2,179
36	CQD36063X45	63	MXT45	4.5	1	2,179
36	CQD36063X50	63	MXT50	5	1	2,168



Custom Shafting Available!

* General position for Bushing face - for position per application consult *Martin*.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.



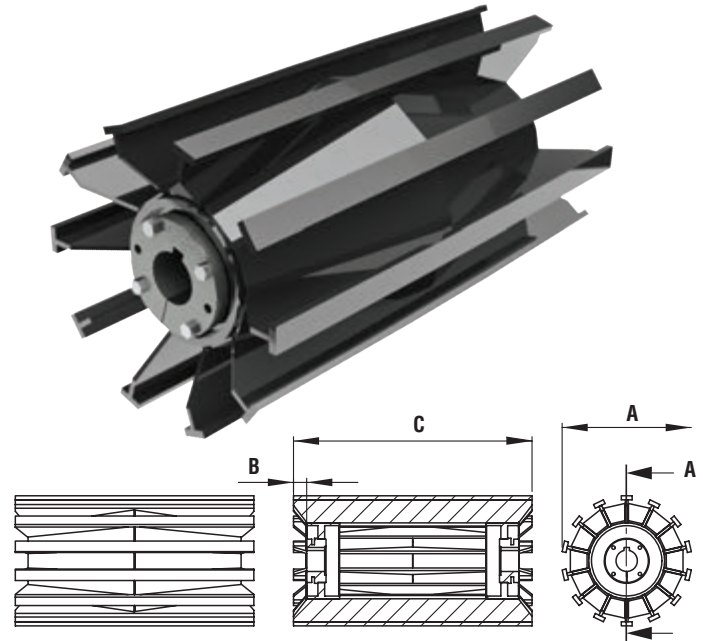
Wing Pulleys Standard Duty

Martin's Standard Duty Wing Pulleys are constructed from extremely heavy materials and are recognized in the industry as the most aggressive CEMA grade stock Pulley on the shelf. All *Martin* Wing Pulleys utilize the unique 'end-pipe' design, which offers ultimate protection against Wing folding and hub-weld fatigue. Our minimum .375" thick contact bar yields additional life in abrasive applications while our competitors thinner bar does not. Additionally, our .25" thick Wing offers greater structural support in aggressive applications.

Features:

- Available in 6" thru 60" Diameter
- Minimum .375" x 1.25" Contact Bars
- Minimum .25" Thick Wings
- Minimum 10 ga. Gussets
- Features Unique *Martin* 'End Pipe' Design
 - Better Protection Against Wing Folding
 - Better Protection Against Hub-Weld Fatigue
- Several Hub/Bushing Systems Available

Martin's Standard Duty Wing Pulleys are manufactured with Crown face. Flat face available upon request.



Standard Duty Wing Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
8	CSW08012X25	12	MXT25	2.5	2.625	36
8	CSW08014X25	14	MXT25	2.5	2.625	40
8	CSW08016X25	16	MXT25	2.5	2.625	46
8	CSW08018X25	18	MXT25	2.5	2.625	51
8	CSW08020X25	20	MXT25	2.5	2.625	56
8	CSW08022X25	22	MXT25	2.5	2.625	61
8	CSW08024X25	24	MXT25	2.5	2.625	66
8	CSW08026X25	26	MXT25	2.5	2.625	71
8	CSW08028X25	28	MXT25	2.5	2.625	75
8	CSW08030X25	30	MXT25	2.5	2.625	80
8	CSW08032X25	32	MXT25	2.5	2.625	85
8	CSW08038X25	38	MXT25	2.5	2.625	103
8	CSW08044X25	44	MXT25	2.5	2.625	118
8	CSW08051X25	51	MXT25	2.5	2.625	138
8	CSW08063X25	63	MXT25	2.5	2.625	171
8	CSW08063X30	63	MXT30	3	2.875	259
10	CSW10012X25	12	MXT25	2.5	2.625	40
10	CSW10012X30	12	MXT30	3	2.875	53
10	CSW10014X25	14	MXT25	2.5	2.625	47
10	CSW10014X30	14	MXT30	3	2.875	55
10	CSW10016X25	16	MXT25	2.5	2.625	54
10	CSW10016X30	16	MXT30	3	2.875	64
10	CSW10018X25	18	MXT25	2.5	2.625	60
10	CSW10018X30	18	MXT30	3	2.875	72
10	CSW10020X25	20	MXT25	2.5	2.625	67
10	CSW10020X30	20	MXT30	3	2.875	78
10	CSW10022X25	22	MXT25	2.5	2.625	73
10	CSW10022X30	22	MXT30	3	2.875	83
10	CSW10024X25	24	MXT25	2.5	2.625	79
10	CSW10024X30	24	MXT30	3	2.875	89
10	CSW10026X25	26	MXT25	2.5	2.625	86
10	CSW10026X30	26	MXT30	3	2.875	94

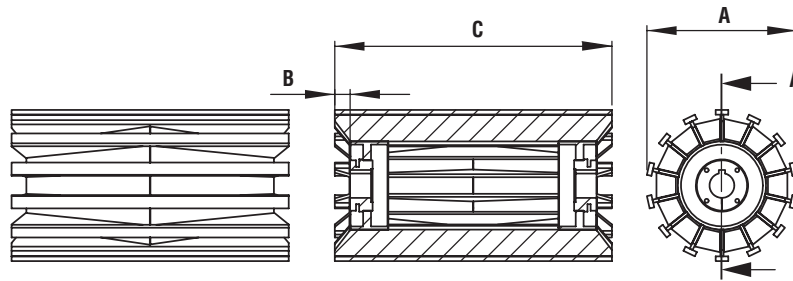
Standard Duty Wing Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
10	CSW10030X25	30	MXT25	2.5	2.625	98
10	CSW10030X30	30	MXT30	3	2.875	105
10	CSW10032X25	32	MXT25	2.5	2.625	104
10	CSW10032X30	32	MXT30	3	2.875	111
10	CSW10036X25	36	MXT25	2.5	2.625	117
10	CSW10036X30	36	MXT30	3	2.875	122
10	CSW10038X25	38	MXT25	2.5	2.625	126
10	CSW10038X35	38	MXT35	3.5	3.75	129
10	CSW10044X25	44	MXT25	2.5	2.625	145
10	CSW10044X30	44	MXT30	3	2.875	150
10	CSW10051X25	51	MXT25	2.5	2.625	170
10	CSW10051X30	51	MXT30	3	2.875	176
10	CSW10051X35	51	MXT35	3.5	3.75	170
10	CSW10057X30	57	MXT30	3	2.875	193
10	CSW10057X35	57	MXT35	3.5	3.75	186
10	CSW10063X25	63	MXT25	2.5	2.625	211
10	CSW10063X30	63	MXT30	3	2.875	216
10	CSW10063X35	63	MXT35	3.5	3.75	209
12	CSW12012X25	12	MXT25	2.5	2.625	51
12	CSW12012X30	12	MXT30	3	2.875	58
12	CSW12012X35	12	MXT35	3.5	3.75	53
12	CSW12014X25	14	MXT25	2.5	2.625	60
12	CSW12014X30	14	MXT30	3	2.875	65
12	CSW12014X35	14	MXT35	3.5	3.75	57
12	CSW12016X25	16	MXT25	2.5	2.625	68
12	CSW12016X30	16	MXT30	3	2.875	78
12	CSW12016X35	16	MXT35	3.5	3.75	74
12	CSW12018X25	18	MXT25	2.5	2.625	76
12	CSW12018X30	18	MXT30	3	2.875	86
12	CSW12018X35	18	MXT35	3.5	3.75	81
12	CSW12020X25	20	MXT25	2.5	2.625	84
12	CSW12020X30	20	MXT30	3	2.875	93

* General position for Bushing face - for position per application consult *Martin*.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.

Wing Pulleys Standard Duty



Standard Duty Wing Pulleys

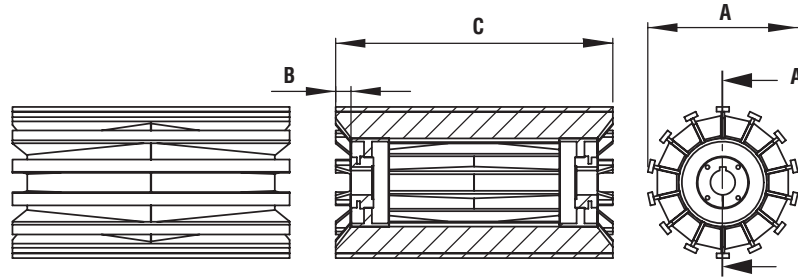
Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
12	CSW12020X35	20	MXT35	3.5	3.75	89
12	CSW12022X25	22	MXT25	2.5	2.625	93
12	CSW12022X30	22	MXT30	3	2.875	100
12	CSW12022X35	22	MXT35	3.5	3.75	96
12	CSW12024X25	24	MXT25	2.5	2.625	101
12	CSW12024X30	24	MXT30	3	2.875	108
12	CSW12024X35	24	MXT35	3.5	3.75	103
12	CSW12026X25	26	MXT25	2.5	2.625	110
12	CSW12026X30	26	MXT30	3	2.875	115
12	CSW12026X35	26	MXT35	3.5	3.75	111
12	CSW12028X25	28	MXT25	2.5	2.625	118
12	CSW12030X25	30	MXT25	2.5	2.625	126
12	CSW12030X30	30	MXT30	3	2.875	130
12	CSW12030X35	30	MXT35	3.5	3.75	125
12	CSW12032X25	32	MXT25	2.5	2.625	135
12	CSW12032X30	32	MXT30	3	2.875	137
12	CSW12032X35	32	MXT35	3.5	3.75	133
12	CSW12036X25	36	MXT25	2.5	2.625	152
12	CSW12036X30	36	MXT30	3	2.875	152
12	CSW12036X35	36	MXT35	3.5	3.75	147
12	CSW12038X25	38	MXT25	2.5	2.625	160
12	CSW12038X30	38	MXT30	3	2.875	159
12	CSW12038X35	38	MXT35	3.5	3.75	155
12	CSW12038X40	38	MXT40	4	4.125	161
12	CSW12040X25	40	MXT25	2.5	2.625	168
12	CSW12040X30	40	MXT30	3	2.875	166
12	CSW12040X35	40	MXT35	3.5	3.75	162
12	CSW12044X25	44	MXT25	2.5	2.625	185
12	CSW12044X30	44	MXT30	3	2.875	181
12	CSW12044X35	44	MXT35	3.5	3.75	177
12	CSW12044X40	44	MXT40	4	4.125	179
12	CSW12051X25	51	MXT25	2.5	2.625	218
12	CSW12051X30	51	MXT30	3	2.875	123
12	CSW12051X35	51	MXT35	3.5	3.75	209
12	CSW12057X35	57	MXT35	3.5	3.75	231
12	CSW12063X30	63	MXT30	3	2.875	264
14	CSW14012X25	12	MXT25	2.5	2.625	63
14	CSW14012X30	12	MXT30	3	2.875	68
14	CSW14012X35	12	MXT35	3.5	3.75	62
14	CSW14012X40	12	MXT40	4	4.125	74
14	CSW14014X25	14	MXT25	2.5	2.625	69
14	CSW14014X30	14	MXT30	3	2.875	80
14	CSW14014X35	14	MXT35	3.5	3.75	74
14	CSW14014X40	14	MXT40	4	4.125	87
14	CSW14016X25	16	MXT25	2.5	2.625	83
14	CSW14016X30	16	MXT30	3	2.875	93
14	CSW14016X35	16	MXT35	3.5	3.75	87

Standard Duty Wing Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
14	CSW14016X40	16	MXT40	4	4.125	99
14	CSW14018X25	18	MXT25	2.5	2.625	94
14	CSW14018X30	18	MXT30	3	2.875	102
14	CSW14018X35	18	MXT35	3.5	3.75	97
14	CSW14018X40	18	MXT40	4	4.125	112
14	CSW14020X25	20	MXT25	2.5	2.625	105
14	CSW14020X30	20	MXT30	3	2.875	112
14	CSW14020X35	20	MXT35	3.5	3.75	106
14	CSW14020X40	20	MXT40	4	4.125	125
14	CSW14022X25	22	MXT25	2.5	2.625	115
14	CSW14022X30	22	MXT30	3	2.875	121
14	CSW14022X35	22	MXT35	3.5	3.75	116
14	CSW14022X40	22	MXT40	4	4.125	128
14	CSW14024X25	24	MXT25	2.5	2.625	126
14	CSW14024X30	24	MXT30	3	2.875	131
14	CSW14024X35	24	MXT35	3.5	3.75	125
14	CSW14024X40	24	MXT40	4	4.125	136
14	CSW14026X25	26	MXT25	2.5	2.625	137
14	CSW14026X30	26	MXT30	3	2.875	140
14	CSW14026X35	26	MXT35	3.5	3.75	135
14	CSW14026X40	26	MXT40	4	4.125	145
14	CSW14030X25	30	MXT25	2.5	2.625	158
14	CSW14030X30	30	MXT30	3	2.875	159
14	CSW14030X35	30	MXT35	3.5	3.75	154
14	CSW14030X40	30	MXT40	4	4.125	161
14	CSW14032X25	32	MXT25	2.5	2.625	169
14	CSW14032X30	32	MXT30	3	2.875	169
14	CSW14032X35	32	MXT35	3.5	3.75	163
14	CSW14032X40	32	MXT40	4	4.125	170
14	CSW14034X25	34	MXT25	2.5	2.625	180
14	CSW14034X30	34	MXT30	3	2.875	178
14	CSW14036X25	36	MXT25	2.5	2.625	191
14	CSW14036X30	36	MXT30	3	2.875	188
14	CSW14036X35	36	MXT35	3.5	3.75	182
14	CSW14036X40	36	MXT40	4	4.125	186
14	CSW14038X25	38	MXT25	2.5	2.625	202
14	CSW14038X30	38	MXT30	3	2.875	198
14	CSW14038X40	38	MXT40	4	4.125	195
14	CSW14038X45	38	MXT45	4.5	4.25	192
14	CSW14038X50	38	MXT50	5	5.25	220
14	CSW14040X25	40	MXT25	2.5	2.625	212
14	CSW14040X30	40	MXT30	3	2.875	207
14	CSW14040X35	40	MXT35	3.5	3.75	201
14	CSW14040X40	40	MXT40	4	4.125	203
14	CSW14044X25	44	MXT25	2.5	2.625	234
14	CSW14044X30	44	MXT30	3	2.875	226
14	CSW14044X35	44	MXT35	3.5	3.75	221

* General position for Bushing face - for position per application consult *Martin*.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.



Standard Duty Wing Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
14	CSW14044X40	44	MXT40	4	4.125	220
14	CSW14046X25	46	MXT25	2.5	2.625	245
14	CSW14046X30	46	MXT30	3	2.875	236
14	CSW14046X35	46	MXT35	3.5	3.75	230
14	CSW14046X40	46	MXT40	4	4.125	228
14	CSW14051X25	51	MXT25	2.5	2.625	275
14	CSW14051X30	51	MXT30	3	2.875	267
14	CSW14051X35	51	MXT35	3.5	3.75	261
14	CSW14051X40	51	MXT40	4	4.125	261
14	CSW14051X45	51	MXT45	4.5	4.75	258
14	CSW14054X30	54	MXT30	3	2.875	281
14	CSW14057X30	57	MXT30	3	2.875	295
14	CSW14057X35	57	MXT35	3.5	3.75	290
14	CSW14057X40	57	MXT40	4	4.125	286
14	CSW14063X25	63	MXT25	2.5	2.625	343
14	CSW14063X30	63	MXT30	3	2.875	331
14	CSW14063X35	63	MXT35	3.5	3.75	325
14	CSW14063X40	63	MXT40	4	4.125	323
16	CSW16012X25	12	MXT25	2.5	2.625	71
16	CSW16012X30	12	MXT30	3	2.875	76
16	CSW16012X35	12	MXT35	3.5	3.75	69
16	CSW16012X40	12	MXT40	4	4.125	80
16	CSW16014X25	14	MXT25	2.5	2.625	79
16	CSW16014X30	14	MXT30	3	2.875	90
16	CSW16014X35	14	MXT35	3.5	3.75	83
16	CSW16014X40	14	MXT40	4	4.125	94
16	CSW16016X25	16	MXT25	2.5	2.625	93
16	CSW16016X30	16	MXT30	3	2.875	103
16	CSW16016X35	16	MXT35	3.5	3.75	96
16	CSW16016X40	16	MXT40	4	4.125	108
16	CSW16018X25	18	MXT25	2.5	2.625	107
16	CSW16018X30	18	MXT30	3	2.875	114
16	CSW16018X35	18	MXT35	3.5	3.75	108
16	CSW16018X40	18	MXT40	4	4.125	122
16	CSW16020X25	20	MXT25	2.5	2.625	119
16	CSW16020X30	20	MXT30	3	2.875	125
16	CSW16020X35	20	MXT35	3.5	3.75	119
16	CSW16020X40	20	MXT40	4	4.125	137
16	CSW16022X25	22	MXT25	2.5	2.625	131
16	CSW16022X30	22	MXT30	3	2.875	136
16	CSW16022X35	22	MXT35	3.5	3.75	130
16	CSW16022X40	22	MXT40	4	4.125	141
16	CSW16024X25	24	MXT25	2.5	2.625	143
16	CSW16024X30	24	MXT30	3	2.875	147
16	CSW16024X35	24	MXT35	3.5	3.75	141
16	CSW16024X40	24	MXT40	4	4.125	151
16	CSW16026X25	26	MXT25	2.5	2.625	156

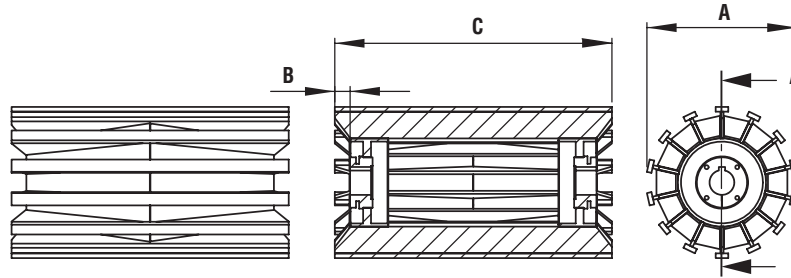
Standard Duty Wing Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
16	CSW16026X30	26	MXT30	3	2.875	158
16	CSW16026X35	26	MXT35	3.5	3.75	152
16	CSW16026X40	26	MXT40	4	4.125	161
16	CSW16028X25	28	MXT25	2.5	2.625	168
16	CSW16028X30	28	MXT30	3	2.875	170
16	CSW16028X35	28	MXT35	3.5	3.75	163
16	CSW16030X25	30	MXT25	2.5	2.625	180
16	CSW16030X30	30	MXT30	3	2.875	181
16	CSW16030X35	30	MXT35	3.5	3.75	174
16	CSW16030X40	30	MXT40	4	4.125	181
16	CSW16032X25	32	MXT25	2.5	2.625	193
16	CSW16032X30	32	MXT30	3	2.875	192
16	CSW16032X35	32	MXT35	3.5	3.75	185
16	CSW16032X40	32	MXT40	4	4.125	191
16	CSW16036X25	36	MXT25	2.5	2.625	218
16	CSW16036X30	36	MXT30	3	2.875	214
16	CSW16036X35	36	MXT35	3.5	2.875	208
16	CSW16036X40	36	MXT40	4	4.125	211
16	CSW16038X25	38	MXT25	2.5	2.625	230
16	CSW16038X30	38	MXT30	3	2.875	226
16	CSW16038X35	38	MXT35	3.5	3.75	219
16	CSW16038X45	38	MXT45	4.5	4.75	217
16	CSW16040X25	40	MXT25	2.5	2.625	242
16	CSW16040X30	40	MXT30	3	2.875	237
16	CSW16040X35	40	MXT35	3.5	3.75	230
16	CSW16040X40	40	MXT40	4	4.125	231
16	CSW16040X45	40	MXT45	4.5	4.75	227
16	CSW16044X25	44	MXT25	2.5	2.625	267
16	CSW16044X30	44	MXT30	3	2.875	259
16	CSW16044X35	44	MXT35	3.5	3.75	252
16	CSW16044X40	44	MXT40	4	4.125	251
16	CSW16044X45	44	MXT45	4.5	4.75	247
16	CSW16046X25	46	MXT25	2.5	2.625	280
16	CSW16046X30	46	MXT30	3	2.875	270
16	CSW16046X35	46	MXT35	3.5	3.75	264
16	CSW16046X40	46	MXT40	4	4.125	261
16	CSW16051X25	51	MXT25	2.5	2.625	314
16	CSW16051X30	51	MXT30	3	2.875	305
16	CSW16051X35	51	MXT35	3.5	3.75	298
16	CSW16051X40	51	MXT40	4	4.125	297
16	CSW16051X45	51	MXT45	4.5	4.75	294
16	CSW16057X40	57	MXT40	4	4.125	328
16	CSW16057X45	57	MXT45	4.5	4.75	324
16	CSW16063X25	63	MXT25	2.5	2.625	392
16	CSW16063X30	63	MXT30	3	2.875	379
16	CSW16063X35	63	MXT35	3.5	3.75	372
16	CSW16063X45	63	MXT45	4.5	4.75	365

* General position for Bushing face - for position per application consult *Martin*.

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Wing Pulleys Standard Duty



Standard Duty Wing Pulleys

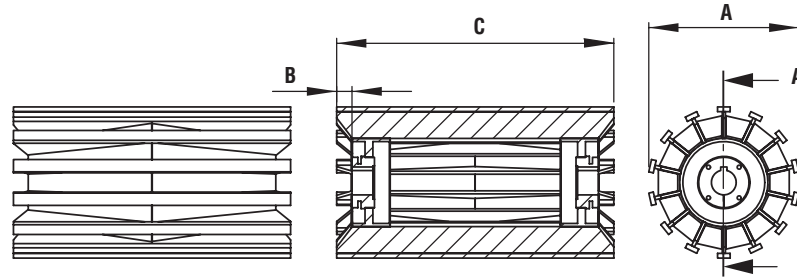
Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
16	CSW16063X50	63	MXT50	5	5.25	410
16	CSW16076X35	76	MXT35	3.5	3.75	452
18	CSW18012X25	12	MXT25	2.5	2.625	141
18	CSW18012X30	12	MXT30	3	2.875	113
18	CSW18012X35	12	MXT35	3.5	3.75	103
18	CSW18012X40	12	MXT40	4	4.125	112
18	CSW18012X45	12	MXT45	4.5	4.75	105
18	CSW18014X25	14	MXT25	2.5	2.625	110
18	CSW18014X30	14	MXT30	3	2.875	134
18	CSW18014X35	14	MXT35	3.5	3.75	123
18	CSW18014X40	14	MXT40	4	4.125	132
18	CSW18014X45	14	MXT45	4.5	4.75	125
18	CSW18016X25	16	MXT25	2.5	2.625	134
18	CSW18016X30	16	MXT30	3	2.875	152
18	CSW18016X35	16	MXT35	3.5	3.75	144
18	CSW18016X40	16	MXT40	4	4.125	153
18	CSW18016X45	16	MXT45	4.5	4.75	145
18	CSW18018X25	18	MXT25	2.5	2.625	158
18	CSW18018X30	18	MXT30	3	2.875	170
18	CSW18018X35	18	MXT35	3.5	3.75	161
18	CSW18018X40	18	MXT40	4	4.125	173
18	CSW18018X45	18	MXT45	4.5	4.75	166
18	CSW18020X25	20	MXT25	2.5	2.625	182
18	CSW18020X30	20	MXT30	3	2.875	187
18	CSW18020X35	20	MXT35	3.5	3.75	179
18	CSW18020X40	20	MXT40	4	1	194
18	CSW18020X45	20	MXT45	4.5	1	187
18	CSW18022X25	22	MXT25	2.5	.75	206
18	CSW18022X30	22	MXT30	3	2.875	205
18	CSW18022X35	22	MXT35	3.5	3.75	197
18	CSW18022X40	22	MXT40	4	1	205
18	CSW18022X45	22	MXT45	4.5	1	200
18	CSW18024X25	24	MXT25	2.5	.75	232
18	CSW18024X30	24	MXT30	3	2.875	223
18	CSW18024X35	24	MXT35	3.5	3.75	215
18	CSW18024X40	24	MXT40	4	1	221
18	CSW18024X45	24	MXT45	4.5	1	216
18	CSW18026X25	26	MXT25	2.5	.75	247
18	CSW18026X30	26	MXT30	3	2.875	241
18	CSW18026X35	26	MXT35	3.5	3.75	232
18	CSW18026X40	26	MXT40	4	1	238
18	CSW18026X45	26	MXT45	4.5	1	233
18	CSW18028X30	28	MXT30	3	2.875	259
18	CSW18028X35	28	MXT35	3.5	3.75	250
18	CSW18030X25	30	MXT25	2.5	.75	277
18	CSW18030X30	30	MXT30	3	2.875	277
18	CSW18030X35	30	MXT35	3.5	3.75	268

Standard Duty Wing Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
18	CSW18030X40	30	MXT40	4	1	271
18	CSW18030X45	30	MXT45	4.5	1	266
18	CSW18032X25	32	MXT25	2.5	.75	292
18	CSW18032X30	32	MXT30	3	2.875	295
18	CSW18032X35	32	MXT35	3.5	3.75	286
18	CSW18032X40	32	MXT40	4	1	287
18	CSW18032X45	32	MXT45	4.5	1	317
18	CSW18036X25	36	MXT25	2.5	.75	323
18	CSW18036X30	36	MXT30	3	2.875	331
18	CSW18036X35	36	MXT35	3.5	3.75	322
18	CSW18036X40	36	MXT40	4	1	320
18	CSW18036X45	36	MXT45	4.5	1	315
18	CSW18038X25	38	MXT25	2.5	.75	338
18	CSW18038X30	38	MXT30	3	2.875	349
18	CSW18038X35	38	MXT35	3.5	3.75	340
18	CSW18038X40	38	MXT40	4	1	337
18	CSW18038X45	38	MXT45	4.5	1	332
18	CSW18038X50	38	MXT50	5	1	353
18	CSW18040X25	40	MXT25	2.5	.75	353
18	CSW18040X30	40	MXT30	3	2.875	367
18	CSW18040X35	40	MXT35	3.5	3.75	358
18	CSW18040X40	40	MXT40	4	1	353
18	CSW18040X45	40	MXT45	4.5	1	348
18	CSW18044X25	44	MXT25	2.5	.75	384
18	CSW18044X30	44	MXT30	3	2.875	403
18	CSW18044X35	44	MXT35	3.5	3.75	394
18	CSW18044X40	44	MXT40	4	1	386
18	CSW18044X45	44	MXT45	4.5	1	381
18	CSW18044X50	44	MXT50	5	1	398
18	CSW18046X25	46	MXT25	2.5	.75	399
18	CSW18046X30	46	MXT30	3	2.875	421
18	CSW18046X35	46	MXT35	3.5	3.75	412
18	CSW18046X40	46	MXT40	4	1	403
18	CSW18046X45	46	MXT45	4.5	1	398
18	CSW18051X25	51	MXT25	2.5	.75	464
18	CSW18051X30	51	MXT30	3	2.875	473
18	CSW18051X35	51	MXT35	3.5	3.75	464
18	CSW18051X40	51	MXT40	4	1	456
18	CSW18051X45	51	MXT45	4.5	1	451
18	CSW18051X50	51	MXT50	5	1	479
18	CSW18057X30	57	MXT30	3	2.875	527
18	CSW18057X45	57	MXT45	4.5	1	500
18	CSW18063X45	63	MXT45	4.5	1	562
18	CSW18063X50	63	MXT50	5	1	597
18	CSW18063X60	63	MXT60	6	1.125	644
18	CSW18076X35	76	MXT35	3.5	3.75	703
18	CSW18087X40	87	MXT40	4	1	777

* General position for Bushing face - for position per application consult *Martin*.

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Standard Duty Wing Pulleys

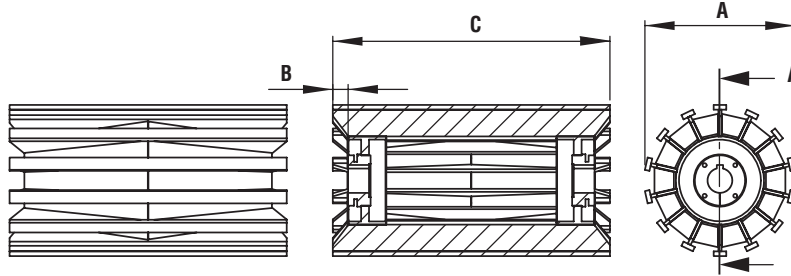
Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
20	CSW20012X25	12	MXT25	2.5	.75	112
20	CSW20012X30	12	MXT30	3	2.875	148
20	CSW20012X35	12	MXT35	3.5	3.75	139
20	CSW20012X40	12	MXT40	4	1	122
20	CSW20012X45	12	MXT45	4.5	1	112
20	CSW20014X25	14	MXT25	2.5	.75	131
20	CSW20014X30	14	MXT30	3	2.875	174
20	CSW20014X35	14	MXT35	3.5	3.75	165
20	CSW20014X40	14	MXT40	4	1	144
20	CSW20014X45	14	MXT45	4.5	1	133
20	CSW20016X25	16	MXT25	2.5	.75	188
20	CSW20016X30	16	MXT30	3	2.875	190
20	CSW20016X35	16	MXT35	3.5	3.75	162
20	CSW20016X40	16	MXT40	4	1	160
20	CSW20016X45	16	MXT45	4.5	1	153
20	CSW20018X25	18	MXT25	2.5	.75	204
20	CSW20018X30	18	MXT30	3	2.875	215
20	CSW20018X35	18	MXT35	3.5	3.75	204
20	CSW20018X40	18	MXT40	4	1	188
20	CSW20018X45	18	MXT45	4.5	1	178
20	CSW20020X25	20	MXT25	2.5	.75	199
20	CSW20020X30	20	MXT30	3	2.875	232
20	CSW20020X35	20	MXT35	3.5	3.75	219
20	CSW20020X40	20	MXT40	4	1	203
20	CSW20020X45	20	MXT45	4.5	1	200
20	CSW20022X25	22	MXT25	2.5	.75	225
20	CSW20022X30	22	MXT30	3	2.875	249
20	CSW20022X35	22	MXT35	3.5	3.75	235
20	CSW20022X40	22	MXT40	4	1	221
20	CSW20022X45	22	MXT45	4.5	4.75	215
20	CSW20024X25	24	MXT25	2.5	2.625	253
20	CSW20024X30	24	MXT30	3	2.875	266
20	CSW20024X35	24	MXT35	3.5	3.75	250
20	CSW20024X40	24	MXT40	4	4.125	239
20	CSW20024X45	24	MXT45	4.5	4.75	233
20	CSW20026X25	26	MXT25	2.5	2.625	270
20	CSW20026X30	26	MXT30	3	2.875	283
20	CSW20026X35	26	MXT35	3.5	3.75	266
20	CSW20026X40	26	MXT40	4	4.125	257
20	CSW20026X45	26	MXT45	4.5	4.75	251
20	CSW20028X30	28	MXT30	3	2.875	300
20	CSW20028X35	28	MXT35	3.5	3.75	282
20	CSW20030X25	30	MXT25	2.5	2.625	304
20	CSW20030X30	30	MXT30	3	2.875	317
20	CSW20030X35	30	MXT35	3.5	3.75	297
20	CSW20030X40	30	MXT40	4	4.125	294
20	CSW20030X45	30	MXT45	4.5	4.75	288

Standard Duty Wing Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
20	CSW20032X25	32	MXT25	2.5	2.625	321
20	CSW20032X30	32	MXT30	3	2.875	334
20	CSW20032X35	32	MXT35	3.5	3.75	313
20	CSW20032X40	32	MXT40	4	4.125	312
20	CSW20032X45	32	MXT45	4.5	4.75	306
20	CSW20036X25	36	MXT25	2.5	2.625	356
20	CSW20036X30	36	MXT30	3	2.875	368
20	CSW20036X35	36	MXT35	3.5	3.75	344
20	CSW20036X40	36	MXT40	4	4.125	349
20	CSW20036X45	36	MXT45	4.5	4.75	343
20	CSW20038X25	38	MXT25	2.5	2.625	373
20	CSW20038X30	38	MXT30	3	2.875	385
20	CSW20038X35	38	MXT35	3.5	3.75	360
20	CSW20038X40	38	MXT40	4	4.125	368
20	CSW20038X45	38	MXT45	4.5	4.75	361
20	CSW20038X50	38	MXT50	5	5.25	382
20	CSW20040X25	40	MXT25	2.5	2.625	390
20	CSW20040X30	40	MXT30	3	2.875	402
20	CSW20040X35	40	MXT35	3.5	3.75	376
20	CSW20040X40	40	MXT40	4	4.125	386
20	CSW20040X45	40	MXT45	4.5	4.75	380
20	CSW20044X25	44	MXT25	2.5	2.625	424
20	CSW20044X30	44	MXT30	3	2.875	436
20	CSW20044X35	44	MXT35	3.5	3.75	407
20	CSW20044X40	44	MXT40	4	4.125	423
20	CSW20044X45	44	MXT45	4.5	4.75	417
20	CSW20044X50	44	MXT50	5	5.25	432
20	CSW20044X60	44	MXT60	6	5.75	460
20	CSW20046X25	46	MXT25	2.5	2.625	441
20	CSW20046X30	46	MXT30	3	2.875	454
20	CSW20046X35	46	MXT35	3.5	3.75	423
20	CSW20046X40	46	MXT40	4	4.125	441
20	CSW20046X45	46	MXT45	4.5	4.75	435
20	CSW20051X25	51	MXT25	2.5	2.625	511
20	CSW20051X30	51	MXT30	3	2.875	524
20	CSW20051X35	51	MXT35	3.5	3.75	495
20	CSW20051X40	51	MXT40	4	4.125	499
20	CSW20051X45	51	MXT45	4.5	4.75	493
20	CSW20051X50	51	MXT50	5	5.25	520
20	CSW20051X60	51	MXT60	6	1.125	559
20	CSW20054X25	54	MXT25	2.5	2.625	537
20	CSW20054X35	54	MXT35	3.5	3.75	518
20	CSW20054X45	54	MXT45	4.5	4.75	521
20	CSW20057X25	57	MXT25	2.5	2.625	563
20	CSW20057X30	57	MXT30	3	2.875	575
20	CSW20057X35	57	MXT35	3.5	3.75	542
20	CSW20057X40	57	MXT40	4	4.125	555

* General position for Bushing face - for position per application consult *Martin*.
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Wing Pulleys Standard Duty



Standard Duty Wing Pulleys

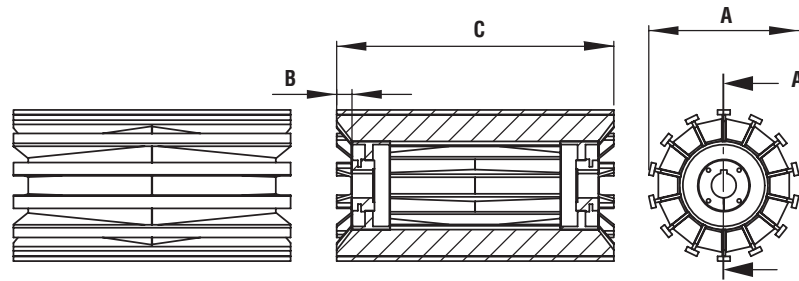
Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
20	CSW20057X45	57	MXT45	4.5	4.75	548
20	CSW20057X50	27	MXT50	5	5.25	571
20	CSW20060X25	60	MXT25	2.5	2.625	588
20	CSW20060X30	60	MXT30	3	2.875	601
20	CSW20060X35	60	MXT35	3.5	3.75	565
20	CSW20060X40	60	MXT40	4	4.125	582
20	CSW20060X45	60	MXT45	4.5	4.75	576
20	CSW20063X25	63	MXT25	2.5	2.625	641
20	CSW20063X30	63	MXT30	3	2.875	654
20	CSW20063X35	63	MXT35	3.5	3.75	622
20	CSW20063X40	63	MXT40	4	4.125	622
20	CSW20063X45	63	MXT45	4.5	4.75	615
20	CSW20063X50	63	MXT50	5	5.25	650
20	CSW20066X25	66	MXT25	2.5	2.625	667
20	CSW20066X30	66	MXT30	3	2.875	679
20	CSW20066X35	66	MXT35	3.5	3.75	645
20	CSW20066X40	66	MXT40	4	4.125	649
20	CSW20066X45	66	MXT45	4.5	4.75	643
24	CSW24012X25	12	MXT25	2.5	2.625	192
24	CSW24012X30	12	MXT30	3	2.875	185
24	CSW24012X35	12	MXT35	3.5	3.75	172
24	CSW24012X40	12	MXT40	4	4.125	159
24	CSW24012X45	12	MXT45	4.5	4.75	147
24	CSW24014X25	14	MXT25	2.5	2.625	168
24	CSW24014X30	14	MXT30	3	2.875	217
24	CSW24014X35	14	MXT35	3.5	3.75	204
24	CSW24014X40	14	MXT40	4	4.125	188
24	CSW24014X45	14	MXT45	4.5	4.75	176
24	CSW24016X25	16	MXT25	2.5	2.625	201
24	CSW24016X30	16	MXT30	3	2.875	249
24	CSW24016X35	16	MXT35	3.5	3.75	236
24	CSW24016X40	16	MXT40	4	4.125	218
24	CSW24016X45	16	MXT45	4.5	4.75	206
24	CSW24016X50	16	MXT50	5	5.25	248
24	CSW24018X25	18	MXT25	2.5	2.625	256
24	CSW24018X30	18	MXT30	3	2.875	268
24	CSW24018X35	18	MXT35	3.5	3.75	254
24	CSW24018X40	18	MXT40	4	4.125	248
24	CSW24018X45	18	MXT45	4.5	4.75	236
24	CSW24018X50	18	MXT50	5	5.25	280
24	CSW24020X25	20	MXT25	2.5	2.625	278
24	CSW24020X30	20	MXT30	3	2.875	290
24	CSW24020X35	20	MXT35	3.5	3.75	276
24	CSW24020X40	20	MXT40	4	4.125	266
24	CSW24020X45	20	MXT45	4.5	4.75	274
24	CSW24020X50	20	MXT50	5	5.25	317
24	CSW24022X25	22	MXT25	2.5	2.625	300

Standard Duty Wing Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
24	CSW24022X30	22	MXT30	3	2.875	311
24	CSW24022X35	22	MXT35	3.5	3.75	297
24	CSW24022X40	22	MXT40	4	4.125	288
24	CSW24022X45	22	MXT45	4.5	4.75	296
24	CSW24022X50	22	MXT50	5	5.25	345
24	CSW24024X25	24	MXT25	2.5	2.625	322
24	CSW24024X30	24	MXT30	3	2.875	333
24	CSW24024X35	24	MXT35	3.5	3.75	319
24	CSW24024X40	24	MXT40	4	4.125	310
24	CSW24024X45	24	MXT45	4.5	4.75	305
24	CSW24024X50	24	MXT50	5	5.25	378
24	CSW24026X25	26	MXT25	2.5	2.625	344
24	CSW24026X30	26	MXT30	3	2.875	355
24	CSW24026X35	26	MXT35	3.5	3.75	341
24	CSW24026X40	26	MXT40	4	4.125	332
24	CSW24026X45	26	MXT45	4.5	4.75	327
24	CSW24026X50	26	MXT50	5	5.25	380
24	CSW24028X30	28	MXT30	3	2.875	377
24	CSW24028X50	28	MXT50	5	5.25	402
24	CSW24030X25	30	MXT25	2.5	2.625	388
24	CSW24030X30	30	MXT30	3	2.875	399
24	CSW24030X35	30	MXT35	3.5	3.75	385
24	CSW24030X40	30	MXT40	4	4.125	375
24	CSW24030X45	30	MXT45	4.5	4.75	370
24	CSW24030X50	30	MXT50	5	5.25	424
24	CSW24032X25	32	MXT25	2.5	2.625	410
24	CSW24032X30	32	MXT30	3	2.875	421
24	CSW24032X35	32	MXT35	3.5	3.75	407
24	CSW24032X40	32	MXT40	4	4.125	397
24	CSW24032X45	32	MXT45	4.5	4.75	392
24	CSW24032X50	32	MXT50	5	5.25	446
24	CSW24036X25	36	MXT25	2.5	2.625	454
24	CSW24036X30	36	MXT30	3	2.875	465
24	CSW24036X35	36	MXT35	3.5	3.75	451
24	CSW24036X40	36	MXT40	4	4.125	440
24	CSW24036X45	36	MXT45	4.5	4.75	436
24	CSW24036X50	36	MXT50	5	5.25	490
24	CSW24036X60	36	MXT60	6	1.125	491
24	CSW24038X25	38	MXT25	2.5	2.625	476
24	CSW24038X30	38	MXT30	3	2.875	487
24	CSW24038X35	38	MXT35	3.5	3.75	473
24	CSW24038X40	38	MXT40	4	4.125	462
24	CSW24038X45	38	MXT45	4.5	4.75	457
24	CSW24038X50	38	MXT50	5	5.25	512
24	CSW24040X25	40	MXT25	2.5	2.625	498
24	CSW24040X30	40	MXT30	3	2.875	510
24	CSW24040X35	40	MXT35	3.5	3.75	495

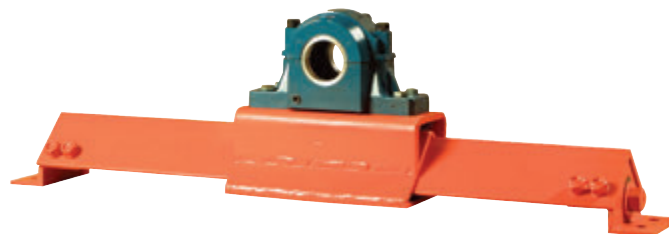
* General position for Bushing face - for position per application consult *Martin*.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.



Standard Duty Wing Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
24	CSW24040X40	40	MXT40	4	4.125	484
24	CSW24040X45	40	MXT45	4.5	4.75	479
24	CSW24040X50	40	MXT50	5	5.25	534
24	CSW24044X25	44	MXT25	2.5	2.625	542
24	CSW24044X30	44	MXT30	3	2.875	554
24	CSW24044X35	44	MXT35	3.5	3.75	539
24	CSW24044X40	44	MXT40	4	4.125	528
24	CSW24044X45	44	MXT45	4.5	4.75	523
24	CSW24044X50	44	MXT50	5	5.25	578
24	CSW24044X70	44	MXT70	7	1.5	581
24	CSW24046X25	46	MXT25	2.5	2.625	564
24	CSW24046X30	46	MXT30	3	2.875	576
24	CSW24046X35	46	MXT35	3.5	3.75	562
24	CSW24046X40	46	MXT40	4	4.125	550
24	CSW24046X45	46	MXT45	4.5	4.75	545
24	CSW24051X25	51	MXT25	2.5	2.625	652
24	CSW24051X30	51	MXT30	3	2.875	664
24	CSW24051X35	51	MXT35	3.5	3.75	650
24	CSW24051X40	51	MXT40	4	4.125	631
24	CSW24051X45	51	MXT45	4.5	4.75	621
24	CSW24051X50	51	MXT50	5	5.25	688
24	CSW24051X60	51	MXT60	6	1.125	699
24	CSW24054X25	54	MXT25	2.5	2.625	685
24	CSW24054X30	54	MXT30	3	2.875	697
24	CSW24054X35	54	MXT35	3.5	3.75	683
24	CSW24057X25	57	MXT25	2.5	2.625	719

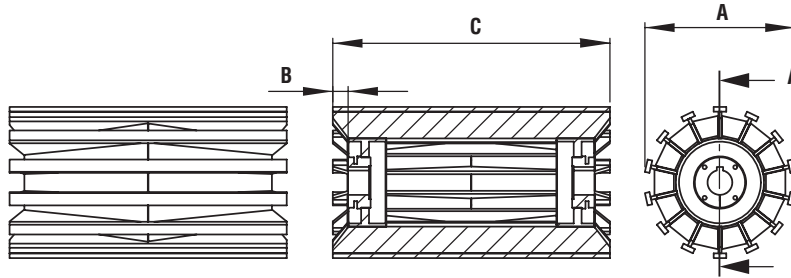


Take-Up Frames Available!

* General position for Bushing face - for position per application consult *Martin*.
BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.

Wing Pulleys

Standard Duty — M-HE Bushed



Standard Duty Wing Pulleys – M-HE Bushed

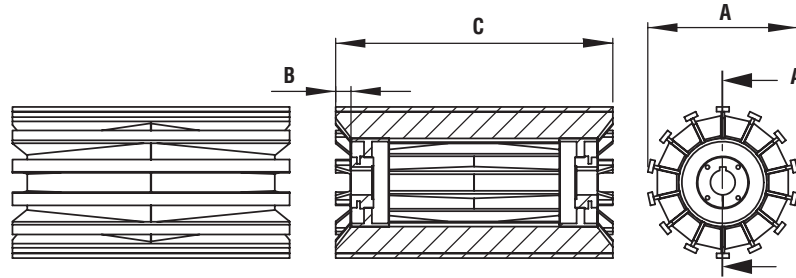
Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
8	CSW08020H25	20	M-HE25	2.5	2.649	65
8	CSW08026H25	26	M-HE25	2.5	2.649	71
8	CSW08028H25	28	M-HE25	2.5	2.649	76
8	CSW08030H25	30	M-HE25	2.5	2.629	81
8	CSW08032H25	32	M-HE25	2.5	2.649	86
8	CSW08038H25	38	M-HE25	2.5	2.649	103
8	CSW08051H25	51	M-HE25	2.5	2.649	138
8	CSW08063H25	63	M-HE25	2.5	2.649	171
8	CSW08063H30	63	M-HE30	3	2.932	258
10	CSW10020H25	20	M-HE25	2.5	2.649	67
10	CSW10026H25	26	M-HE25	2.5	2.649	86
10	CSW10026H30	26	M-HE30	3	2.932	93
10	CSW10032H25	32	M-HE25	2.5	2.649	105
10	CSW10038H25	38	M-HE25	2.5	2.649	127
10	CSW10038H35	38	M-HE35	3.5	3.136	132
10	CSW10044H25	44	M-HE25	2.5	2.649	146
10	CSW10044H30	44	M-HE30	3	2.932	148
10	CSW10051H25	51	M-HE25	2.5	2.649	171
10	CSW10051H30	51	M-HE30	3	2.932	179
10	CSW10051H35	51	M-HE35	3.5	3.136	175
10	CSW10057H30	57	M-HE30	3	2.932	190
10	CSW10057H35	57	M-HE35	3.5	3.136	191
10	CSW10063H25	63	M-HE25	2.5	2.649	212
10	CSW10063H30	63	M-HE30	3	2.933	213
10	CSW10063H35	63	M-HE35	3.5	3.136	215
12	CSW12020H25	20	M-HE25	2.5	2.649	85
12	CSW12026H25	26	M-HE25	2.5	2.649	110
12	CSW12026H30	26	M-HE30	3	2.932	115
12	CSW12026H35	26	M-HE35	3.5	3.136	114
12	CSW12028H25	28	M-HE25	2.5	2.649	118
12	CSW12032H25	32	M-HE25	2.5	2.649	135
12	CSW12032H30	32	M-HE30	3	2.932	137
12	CSW12038H25	38	M-HE25	2.5	2.649	160
12	CSW12038H30	38	M-HE30	3	2.932	159
12	CSW12038H35	38	M-HE35	3.5	3.136	158
12	CSW12038H40	38	M-HE40	4	3.261	162
12	CSW12044H25	44	M-HE25	2.5	2.649	186
12	CSW12044H30	44	M-HE30	3	2.932	181
12	CSW12044H35	44	M-HE35	3.5	3.136	180
12	CSW12044H40	44	M-HE40	4	3.261	181
12	CSW12051H25	51	M-HE25	2.5	2.649	218
12	CSW12051H30	51	M-HE30	3	2.932	214
12	CSW12051H35	51	M-HE35	3.5	3.136	212
12	CSW12057H35	57	M-HE35	3.5	3.136	234
12	CSW12063H25	63	M-HE25	2.5	2.649	285
14	CSW14026H25	26	M-HE25	2.5	2.649	138
14	CSW14026H30	26	M-HE30	3	2.932	141

Standard Duty Wing Pulleys – M-HE Bushed

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
14	CSW14026H35	26	M-HE35	3.5	3.136	139
14	CSW14032H25	32	M-HE25	2.5	2.649	170
14	CSW14032H30	32	M-HE30	3	2.932	169
14	CSW14034H25	34	M-HE25	2.5	2.649	181
14	CSW14034H30	34	M-HE30	3	2.932	179
14	CSW14036H30	36	M-HE30	3	2.932	189
14	CSW14038H25	38	M-HE25	2.5	2.649	202
14	CSW14038H30	38	M-HE30	3	2.932	198
14	CSW14038H40	38	M-HE40	4	3.261	198
14	CSW14038H45	38	M-HE45	4.5	3.636	206
14	CSW14038H50	38	M-HE50	5	4.061	231
14	CSW14044H25	44	M-HE25	2.5	2.649	235
14	CSW14044H30	44	M-HE30	3	2.932	227
14	CSW14044H40	44	M-HE40	4	3.261	223
14	CSW14046H30	46	M-HE30	3	2.932	236
14	CSW14051H25	51	M-HE25	2.5	2.649	275
14	CSW14051H30	51	M-HE30	3	2.932	267
14	CSW14051H40	51	M-HE40	4	3.261	264
14	CSW14051H45	51	M-HE45	4.5	3.636	272
14	CSW14054H30	54	M-HE30	3	2.932	282
14	CSW14057H30	57	M-HE30	3	2.932	296
14	CSW14057H35	57	M-HE35	3.5	3.136	294
14	CSW14057H40	57	M-HE40	4	3.261	289
14	CSW14063H25	63	M-HE25	2.5	2.649	343
14	CSW14063H30	63	M-HE30	3	2.932	331
14	CSW14063H35	63	M-HE35	3.5	3.136	329
14	CSW14063H40	63	M-HE40	4	3.261	326
16	CSW16020H25	20	M-HE25	2.5	2.649	120
16	CSW16022H30	22	M-HE30	3	2.932	137
16	CSW16026H25	26	M-HE25	2.5	2.649	156
16	CSW16026H30	26	M-HE30	3	2.932	159
16	CSW16028H25	28	M-HE25	2.5	2.649	169
16	CSW16028H30	28	M-HE30	3	2.932	170
16	CSW16028H35	28	M-HE35	3.5	3.136	168
16	CSW16032H25	32	M-HE25	2.5	2.649	194
16	CSW16032H30	32	M-HE30	3	2.932	200
16	CSW16038H25	38	M-HE25	2.5	2.649	231
16	CSW16038H30	38	M-HE30	3	2.932	226
16	CSW16038H35	38	M-HE35	3.5	3.136	224
16	CSW16038H45	38	M-HE45	4.5	3.636	233
16	CSW16040H40	40	M-HE40	4	3.261	235
16	CSW16040H45	40	M-HE45	4.5	3.636	243
16	CSW16044H25	44	M-HE25	2.5	2.649	268
16	CSW16044H30	44	M-HE30	3	2.932	260
16	CSW16044H35	44	M-HE35	3.5	3.136	257
16	CSW16044H40	44	M-HE40	4	3.261	255
16	CSW16044H45	44	M-HE45	4.5	3.636	263

* General position for Bushing face - for position per application consult *Martin*.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.



Standard Duty Wing Pulleys – M-HE Bushed

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
16	CSW16051H30	51	M-HE30	3	2.932	306
16	CSW16051H35	51	M-HE35	3.5	3.136	303
16	CSW16051H40	51	M-HE40	4	3.261	302
16	CSW16051H45	51	M-HE45	4.5	3.636	310
16	CSW16057H40	57	M-HE40	4	3.261	332
16	CSW16057H45	57	M-HE45	4.5	3.363	340
16	CSW16063H25	63	M-HE25	2.5	2.649	392
16	CSW16063H30	63	M-HE30	3	2.932	380
16	CSW16063H35	63	M-HE35	3.5	3.136	378
16	CSW16063H45	63	M-HE45	4.5	3.636	382
16	CSW16063H50	63	M-HE50	5	4.061	424
16	CSW16076H35	76	M-HE35	3.5	3.136	457
18	CSW18026H25	26	M-HE25	2.5	2.649	228
18	CSW18026H40	26	M-HE40	4	3.261	243
18	CSW18028H30	28	M-HE30	3	2.932	260
18	CSW18028H35	28	M-HE35	3.5	3.136	257
18	CSW18030H40	30	M-HE40	4	3.261	276
18	CSW18032H25	32	M-HE25	2.5	2.649	278
18	CSW18032H30	32	M-HE30	3	2.932	296
18	CSW18032H35	32	M-HE35	3.5	3.136	293
18	CSW18038H25	38	M-HE25	2.5	2.649	327
18	CSW18038H30	38	M-HE30	3	2.932	350
18	CSW18038H35	38	M-HE35	3.5	3.136	347
18	CSW18038H40	38	M-HE40	4	3.261	343
18	CSW18038H45	38	M-HE45	4.5	3.636	350
18	CSW18038H50	38	M-HE50	5	4.061	369
18	CSW18040H40	40	M-HE40	4	3.261	359
18	CSW18040H45	40	M-HE45	4.5	3.636	367
18	CSW18044H25	44	M-HE25	2.5	2.649	377
18	CSW18044H30	44	M-HE30	3	2.932	404
18	CSW18044H35	44	M-HE35	3.5	3.136	401
18	CSW18044H40	44	M-HE40	4	3.261	392
18	CSW18044H45	44	M-HE45	4.5	3.636	400
18	CSW18044H50	44	M-HE50	5	4.061	414
18	CSW18046H45	46	M-HE45	4.5	3.636	417
18	CSW18051H35	51	M-HE35	3.5	3.136	304
18	CSW18051H40	51	M-HE40	4	3.261	462
18	CSW18051H50	51	M-HE50	5	4.061	495
18	CSW18057H30	57	M-HE30	3	2.932	528
18	CSW18057H45	57	M-HE45	4.5	3.636	520
18	CSW18063H35	63	M-HE35	3.5	3.136	375
18	CSW18063H45	63	M-HE45	4.5	3.636	581
18	CSW18063H50	63	M-HE50	5	4.312	613
18	CSW18063H60	63	M-HE60	6	4.421	644
18	CSW18076H35	76	M-HE35	3.5	3.136	713
18	CSW18087H40	87	M-HE40	4	3.261	783
20	CSW20026H25	26	M-HE25	2.5	2.649	251

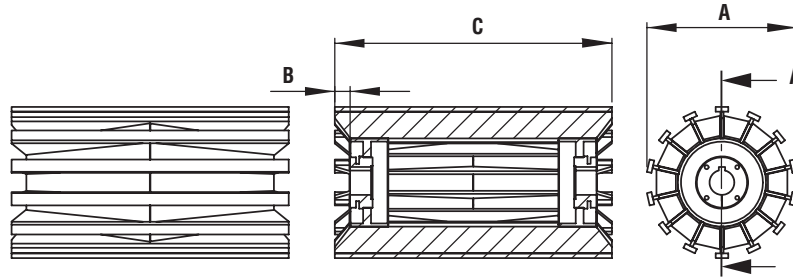
Standard Duty Wing Pulleys – M-HE Bushed

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
20	CSW20026H30	26	M-HE30	3	2.932	255
20	CSW20026H40	26	M-HE40	4	3.261	264
20	CSW20028H30	28	M-HE30	3	2.932	272
20	CSW20028H35	28	M-HE35	3.5	3.136	270
20	CSW20030H40	30	M-HE40	4	3.261	301
20	CSW20032H25	32	M-HE25	2.5	2.649	306
20	CSW20032H30	32	M-HE30	3	2.932	305
20	CSW20038H25	38	M-HE25	2.5	2.649	361
20	CSW20038H30	38	M-HE30	3	2.932	356
20	CSW20038H35	38	M-HE35	3.5	3.136	354
20	CSW20038H40	38	M-HE40	4	3.261	375
20	CSW20038H45	38	M-HE45	4.5	3.636	382
20	CSW20038H50	38	M-HE50	5	4.061	400
20	CSW20040H40	40	M-HE40	4	3.261	393
20	CSW20040H45	40	M-HE45	4.5	3.636	401
20	CSW20044H30	44	M-HE30	3	2.932	407
20	CSW20044H35	44	M-HE35	3.5	3.136	405
20	CSW20044H40	44	M-HE40	4	3.261	430
20	CSW20044H50	44	M-HE50	5	4.061	451
20	CSW20044H60	44	M-HE60	6	4.421	460
20	CSW20046H45	46	M-HE45	4.5	3.636	456
20	CSW20051H35	51	M-HE35	3.5	3.136	482
20	CSW20051H40	51	M-HE40	4	3.261	506
20	CSW20051H50	51	M-HE50	5	4.061	538
20	CSW20051H60	51	M-HE60	6	4.421	558
20	CSW20057H30	57	M-HE30	3	2.932	535
20	CSW20057H40	57	M-HE40	4	3.261	562
20	CSW20057H45	57	M-HE45	4.5	3.636	570
20	CSW20057H50	57	M-HE50	5	4.061	589
20	CSW20063H45	63	M-HE45	4.5	3.636	637
20	CSW20063H50	63	M-HE50	5	4.061	667
24	CSW24026H30	26	M-HE30	3	2.932	335
24	CSW24028H30	28	M-HE30	3	2.932	358
24	CSW24028H50	28	M-HE50	5	4.061	382
24	CSW24032H30	32	M-HE30	3	2.932	405
24	CSW24036H60	36	M-HE60	6	4.421	491
24	CSW24038H30	38	M-HE30	3	2.932	475
24	CSW24038H35	38	M-HE35	3.5	3.136	473
24	CSW24038H40	38	M-HE40	4	3.261	471
24	CSW24038H45	38	M-HE45	4.5	3.636	471
24	CSW24038H50	38	M-HE50	5	4.061	491
24	CSW24040H40	40	M-HE40	4	3.261	493
24	CSW24040H45	40	M-HE45	4.5	3.636	501
24	CSW24044H35	44	M-HE35	3.5	3.136	497
24	CSW24044H40	44	M-HE40	4	3.261	493
24	CSW24044H50	44	M-HE50	5	4.061	513
24	CSW24044H70	44	M-HE70	7	4.954	580

* General position for Bushing face - for position per application consult *Martin*.
BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.

Wing Pulleys

Standard Duty — M-HE Bushed



Standard Duty Wing Pulleys – M-HE Bushed

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
24	CSW24046H45	46	M-HE45	4.5	3.636	566
24	CSW24051H40	51	M-HE40	4	3.261	657
24	CSW24051H45	51	M-HE45	4.5	3.636	648
24	CSW24051H50	51	M-HE50	5	4.061	660
24	CSW24051H60	51	M-HE60	6	4.421	699
24	CSW24057H45	57	M-HE45	4.5	3.636	719
24	CSW24057H50	57	M-HE50	5	4.061	726
24	CSW24063H45	63	M-HE45	4.5	3.636	806
24	CSW24063H50	63	M-HE50	5	4.061	818
24	CSW24063H60	63	M-HE60	6	4.421	875
30	CSW30044H50	44	M-HE50	5	4.061	708
30	CSW30051H40	51	M-HE40	4	3.261	1018
30	CSW30051H45	51	M-HE45	4.5	3.636	837
30	CSW30051H50	51	M-HE50	5	4.061	849
30	CSW30057H50	57	M-HE50	5	4.061	932
30	CSW30057H60	57	M-HE60	6	4.421	921
30	CSW30057H70	57	M-HE70	7	4.954	987



Custom Shafting Available!

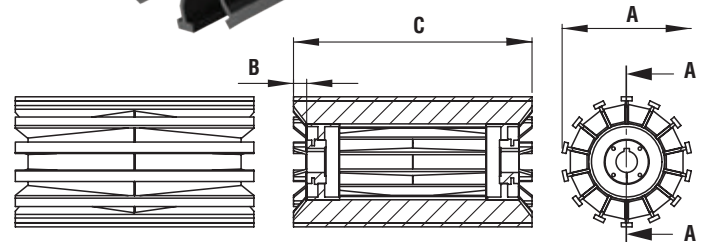
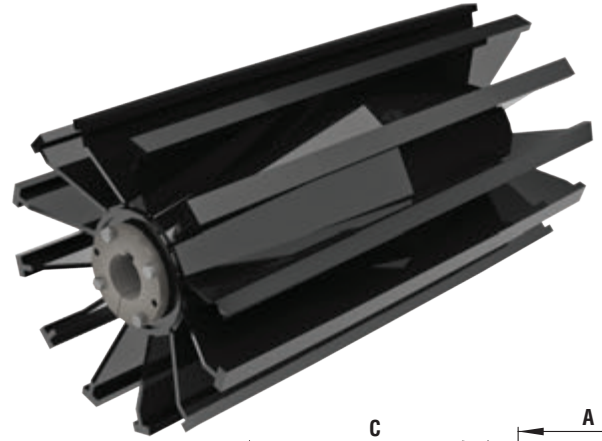
* General position for Bushing face - for position per application consult *Martin*.
BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.

Martin's Mine Duty Wing Pulleys are constructed from extremely heavy materials and are recognized in the industry as the most aggressive 'Mine Duty' stock Pulley on the shelf. All *Martin* Wing Pulleys utilize the unique 'end-pipe' design, which offers ultimate protection against Wing folding and hub-weld fatigue. Our minimum .625" thick contact bar yields additional life in abrasive applications while our competitors thinner bar does not. Additionally, our .375" thick Wing and .25" gussets offer greater structural support in aggressive applications.

Features:

- Available in 8" thru 60" Diameter
- Minimum .625" x 1.5" Contact Bars
- Minimum .375" Thick Wings
- Minimum .25" Gussets
- Features Unique *Martin* 'End Pipe' design
 - Better Protection Against Wing Folding
 - Better Protection Against Hub-Weld Fatigue
- Several Hub/Bushing Systems Available

Martin's Mine Duty Wing Pulleys are manufactured with Crown face. Flat face available upon request.



Mine Duty Wing Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
8	CMW08012X25	12	MXT25	2.5	2.625	55
8	CMW08014X25	14	MXT25	2.5	2.625	62
8	CMW08016X25	16	MXT25	2.5	2.625	72
8	CMW08018X25	18	MXT25	2.5	2.625	81
8	CMW08020X25	20	MXT25	2.5	2.625	90
8	CMW08022X25	22	MXT25	2.5	2.625	99
8	CMW08024X25	24	MXT25	2.5	2.625	108
8	CMW08026X25	26	MXT25	2.5	2.625	116
8	CMW08030X25	30	MXT25	2.5	2.625	134
8	CMW08032X25	32	MXT25	2.5	2.625	143
8	CMW08044X25	44	MXT25	2.5	2.625	198
10	CMW10012X25	12	MXT25	2.5	2.625	63
10	CMW10012X30	12	MXT30	3	2.875	73
10	CMW10014X25	14	MXT25	2.5	2.625	72
10	CMW10014X30	14	MXT30	3	2.875	77
10	CMW10016X25	16	MXT25	2.5	2.625	84
10	CMW10016X30	16	MXT30	3	2.875	90
10	CMW10018X25	18	MXT25	2.5	2.625	95
10	CMW10018X30	18	MXT30	3	2.875	102
10	CMW10020X25	20	MXT25	2.5	2.625	106
10	CMW10020X30	20	MXT30	3	2.875	112
10	CMW10022X25	22	MXT25	2.5	2.625	116
10	CMW10022X30	22	MXT30	3	2.875	122
10	CMW10024X25	24	MXT25	2.5	2.625	127
10	CMW10024X30	24	MXT30	3	2.875	131
10	CMW10026X25	26	MXT25	2.5	2.625	137
10	CMW10026X30	26	MXT30	3	2.875	141
10	CMW10030X25	30	MXT25	2.5	2.625	159
10	CMW10030X30	30	MXT30	3	2.875	160
10	CMW10032X25	32	MXT25	2.5	2.625	169
10	CMW10032X30	32	MXT30	3	2.875	170
10	CMW10036X25	36	MXT25	2.5	2.625	191

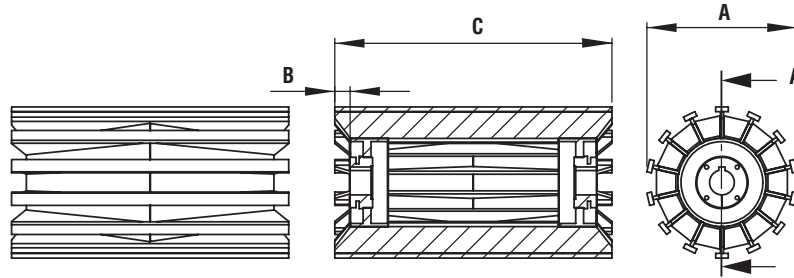
Mine Duty Wing Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
10	CMW10036X30	36	MXT30	3	2.875	189
10	CMW10038X25	38	MXT25	2.5	2.625	204
10	CMW10038X30	38	MXT30	3	2.875	206
10	CMW10044X25	44	MXT25	2.5	2.625	236
10	CMW10044X30	44	MXT30	3	2.875	235
10	CMW10051X25	51	MXT25	2.5	2.625	277
10	CMW10063X30	63	MXT30	3	2.875	340
12	CMW12012X25	12	MXT25	2.5	2.625	78
12	CMW12012X30	12	MXT30	3	2.875	88
12	CMW12012X35	12	MXT35	3.5	3.75	82
12	CMW12014X25	14	MXT25	2.5	2.625	91
12	CMW12014X30	14	MXT30	3	2.875	95
12	CMW12014X35	14	MXT35	3.5	3.75	85
12	CMW12016X25	16	MXT25	2.5	2.625	106
12	CMW12016X30	16	MXT30	3	2.875	110
12	CMW12016X35	16	MXT35	3.5	3.75	100
12	CMW12018X25	18	MXT25	2.5	2.625	120
12	CMW12018X30	18	MXT30	3	2.875	125
12	CMW12018X35	18	MXT35	3.5	3.75	116
12	CMW12020X25	20	MXT25	2.5	2.625	134
12	CMW12020X30	20	MXT30	3	2.875	138
12	CMW12020X35	20	MXT35	3.5	3.75	132
12	CMW12022X25	22	MXT25	2.5	2.625	148
12	CMW12022X30	22	MXT30	3	2.875	150
12	CMW12022X35	22	MXT35	3.5	3.75	144
12	CMW12024X25	24	MXT25	2.5	2.625	162
12	CMW12024X30	24	MXT30	3	2.875	163
12	CMW12024X35	24	MXT35	3.5	3.75	157
12	CMW12026X25	26	MXT25	2.5	2.625	176
12	CMW12026X30	26	MXT30	3	2.875	175
12	CMW12026X35	26	MXT35	3.5	3.75	169
12	CMW12030X25	30	MXT25	2.5	2.625	204

* General position for Bushing face - for position per application consult *Martin*.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.

Wing Pulleys Mine Duty



Mine Duty Wing Pulleys

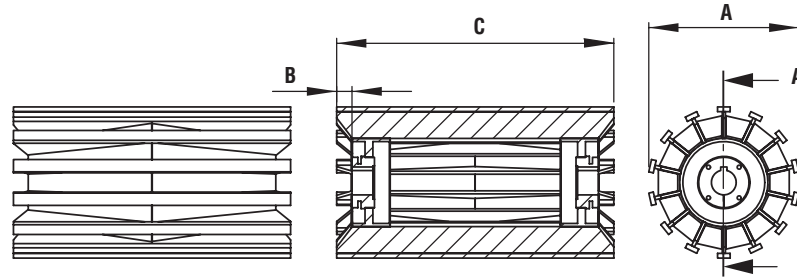
Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
12	CMW12030X30	30	MXT30	3	2.875	200
12	CMW12030X35	30	MXT35	3.5	3.75	194
12	CMW12032X25	32	MXT25	2.5	2.625	218
12	CMW12032X30	32	MXT30	3	2.875	213
12	CMW12032X35	32	MXT35	3.5	3.75	207
12	CMW12036X25	36	MXT25	2.5	2.625	246
12	CMW12036X30	36	MXT30	3	2.875	238
12	CMW12036X35	36	MXT35	3.5	3.75	231
12	CMW12038X25	38	MXT25	2.5	2.625	260
12	CMW12038X30	38	MXT30	3	2.875	250
12	CMW12038X35	38	MXT35	3.5	3.75	244
12	CMW12040X25	40	MXT25	2.5	2.625	274
12	CMW12040X30	40	MXT30	3	2.875	263
12	CMW12040X35	44	MXT35	3.5	3.75	256
12	CMW12044X25	44	MXT25	2.5	2.625	302
12	CMW12044X30	44	MXT30	3	2.875	288
12	CMW12044X35	44	MXT35	3.5	3.75	281
12	CMW12051X25	51	MXT25	2.5	2.625	354
12	CMW12051X30	51	MXT30	3	2.875	338
12	CMW12051X35	51	MXT35	3.5	3.75	332
12	CMW12051X40	51	MXT40	4	4.125	330
12	CMW12063X30	63	MXT30	3	2.875	420
14	CMW14012X25	63	MXT25	2.5	2.625	96
14	CMW14012X30	12	MXT30	3	2.875	104
14	CMW14012X35	12	MXT35	3.5	3.75	96
14	CMW14012X40	12	MXT40	4	4.125	111
14	CMW14014X25	14	MXT25	2.5	2.625	112
14	CMW14014X30	14	MXT30	3	2.875	114
14	CMW14014X35	14	MXT35	3.5	3.75	102
14	CMW14014X40	14	MXT40	4	4.125	111
14	CMW14016X25	16	MXT25	2.5	2.625	131
14	CMW14016X30	16	MXT30	3	2.875	133
14	CMW14016X35	16	MXT35	3.5	3.75	121
14	CMW14016X40	16	MXT40	4	4.125	130
14	CMW14018X25	18	MXT25	2.5	2.625	148
14	CMW14018X30	18	MXT30	3	2.875	152
14	CMW14018X35	18	MXT35	3.5	3.75	140
14	CMW14018X40	18	MXT40	4	4.125	149
14	CMW14020X25	20	MXT25	2.5	2.625	166
14	CMW14020X30	20	MXT30	3	2.875	167
14	CMW14020X35	20	MXT35	3.5	3.75	159
14	CMW14020X40	20	MXT40	4	4.125	168
14	CMW14022X25	22	MXT25	2.5	2.625	184
14	CMW14022X30	22	MXT30	3	2.875	183
14	CMW14022X35	22	MXT35	3.5	3.75	175
14	CMW14022X40	22	MXT40	4	4.125	186
14	CMW14024X25	24	MXT25	2.5	2.625	201

Mine Duty Wing Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
14	CMW14024X30	24	MXT30	3	2.875	199
14	CMW14024X35	24	MXT35	3.5	3.75	191
14	CMW14024X40	24	MXT40	4	4.125	197
14	CMW14026X25	26	MXT25	2.5	2.625	219
14	CMW14026X30	26	MXT30	3	2.875	215
14	CMW14026X35	26	MXT35	3.5	3.75	207
14	CMW14026X40	26	MXT40	4	4.125	211
14	CMW14030X25	30	MXT25	2.5	2.625	255
14	CMW14030X30	30	MXT30	3	2.875	248
14	CMW14030X35	30	MXT35	3.5	3.75	239
14	CMW14030X40	30	MXT40	4	4.125	240
14	CMW14032X25	32	MXT25	2.5	2.625	272
14	CMW14032X30	32	MXT30	3	2.875	264
14	CMW14032X35	32	MXT35	3.5	3.75	255
14	CMW14032X40	32	MXT40	4	4.125	254
14	CMW14036X25	36	MXT25	2.5	2.625	308
14	CMW14036X30	36	MXT30	3	2.875	296
14	CMW14036X35	36	MXT35	3.5	3.75	287
14	CMW14036X40	36	MXT40	4	4.125	283
14	CMW14038X25	38	MXT25	2.5	2.625	326
14	CMW14038X30	38	MXT30	3	2.875	312
14	CMW14038X35	38	MXT35	3.5	3.75	303
14	CMW14038X40	38	MXT40	4	4.125	297
14	CMW14040X25	40	MXT25	2.5	2.625	343
14	CMW14040X30	40	MXT30	3	2.875	328
14	CMW14040X35	40	MXT35	3.5	3.75	319
14	CMW14040X40	40	MXT40	4	4.125	311
14	CMW14044X25	44	MXT25	2.5	2.625	379
14	CMW14044X30	44	MXT30	3	2.875	360
14	CMW14044X35	44	MXT35	3.5	3.75	351
14	CMW14044X40	44	MXT40	4	4.125	340
14	CMW14046X25	46	MXT25	2.5	2.625	397
14	CMW14046X30	46	MXT30	3	2.875	376
14	CMW14046X35	46	MXT35	3.5	3.75	368
14	CMW14046X40	46	MXT40	4	4.125	354
14	CMW14051X25	51	MXT25	2.5	2.625	444
14	CMW14051X30	51	MXT30	3	2.875	423
14	CMW14051X35	51	MXT35	3.5	3.75	414
14	CMW14051X40	51	MXT40	4	4.125	402
14	CMW14063X25	63	MXT25	2.5	2.625	554
16	CMW16012X25	12	MXT25	2.5	2.625	109
16	CMW16012X30	12	MXT30	3	2.875	116
16	CMW16012X35	12	MXT35	3.5	3.75	107
16	CMW16012X40	12	MXT40	4	4.125	120
16	CMW16014X25	14	MXT25	2.5	2.625	127
16	CMW16014X30	14	MXT30	3	2.875	128
16	CMW16014X35	14	MXT35	3.5	3.75	115

* General position for Bushing face - for position per application consult *Martin*.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.



Mine Duty Wing Pulleys

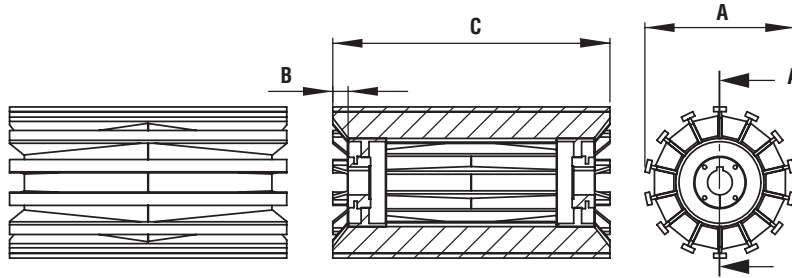
Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
16	CMW16014X40	14	MXT40	4	4.125	122
16	CMW16016X25	16	MXT25	2.5	2.625	148
16	CMW16016X30	16	MXT30	3	2.875	149
16	CMW16016X35	16	MXT35	3.5	3.75	136
16	CMW16016X40	16	MXT40	4	4.125	143
16	CMW16018X25	18	MXT25	2.5	2.625	168
16	CMW16018X30	18	MXT30	3	2.875	170
16	CMW16018X35	18	MXT35	3.5	3.75	157
16	CMW16018X40	18	MXT40	4	4.125	164
16	CMW16020X25	20	MXT25	2.5	2.625	188
16	CMW16020X30	20	MXT30	3	2.875	188
16	CMW16020X35	20	MXT35	3.5	3.75	179
16	CMW16020X40	20	MXT40	4	4.125	185
16	CMW16022X25	22	MXT25	2.5	2.625	208
16	CMW16022X30	22	MXT30	3	2.875	207
16	CMW16022X35	22	MXT35	3.5	3.75	197
16	CMW16022X40	22	MXT40	4	4.125	207
16	CMW16024X25	24	MXT25	2.5	2.625	228
16	CMW16024X30	24	MXT30	3	2.875	225
16	CMW16024X35	24	MXT35	3.5	3.75	215
16	CMW16024X40	24	MXT40	4	4.125	219
16	CMW16026X25	26	MXT25	2.5	2.625	248
16	CMW16026X30	26	MXT30	3	2.875	244
16	CMW16026X35	26	MXT35	3.5	3.75	234
16	CMW16026X40	26	MXT40	4	4.125	236
16	CMW16030X25	30	MXT25	2.5	2.625	288
16	CMW16030X30	30	MXT30	3	2.875	281
16	CMW16030X35	30	MXT35	3.5	3.75	271
16	CMW16030X40	30	MXT40	4	4.125	270
16	CMW16032X35	32	MXT35	3.5	2.875	289
16	CMW16036X25	36	MXT25	2.5	2.625	349
16	CMW16036X30	36	MXT30	3	2.875	336
16	CMW16036X35	36	MXT35	3.5	3.75	326
16	CMW16036X40	36	MXT40	4	4.125	320
16	CMW16038X25	38	MXT25	2.5	2.625	370
16	CMW16038X30	38	MXT30	3	2.875	355
16	CMW16038X35	38	MXT35	3.5	3.75	345
16	CMW16038X40	38	MXT40	4	4.125	337
16	CMW16040X25	40	MXT25	2.5	2.625	390
16	CMW16040X30	40	MXT30	3	2.875	374
16	CMW16040X35	40	MXT35	3.5	3.75	364
16	CMW16040X40	40	MXT40	4	4.125	354
16	CMW16044X25	44	MXT25	2.5	2.625	430
16	CMW16044X30	44	MXT30	3	2.875	411
16	CMW16044X35	44	MXT35	3.5	3.75	401
16	CMW16044X40	44	MXT40	4	4.125	388
16	CMW16046X25	46	MXT25	2.5	2.625	451

Mine Duty Wing Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
16	CMW16046X30	46	MXT30	3	2.875	429
16	CMW16046X35	46	MXT35	3.5	3.75	419
16	CMW16046X40	46	MXT40	4	4.125	405
16	CMW16051X25	51	MXT25	2.5	2.625	506
16	CMW16051X30	51	MXT30	3	2.875	483
16	CMW16051X35	51	MXT35	3.5	3.75	472
16	CMW16051X40	51	MXT40	4	4.125	458
16	CMW16063X25	63	MXT25	2.5	2.625	630
18	CMW18012X25	12	MXT25	2.5	2.625	165
18	CMW18012X30	12	MXT30	3	2.875	140
18	CMW18012X35	12	MXT35	3.5	3.75	121
18	CMW18012X40	12	MXT40	4	4.125	130
18	CMW18012X45	12	MXT45	4.5	4.75	120
18	CMW18014X25	14	MXT25	2.5	2.625	142
18	CMW18014X30	14	MXT30	3	2.875	166
18	CMW18014X35	14	MXT35	3.5	3.75	151
18	CMW18014X40	14	MXT40	4	4.125	155
18	CMW18014X45	14	MXT45	4.5	4.75	145
18	CMW18016X25	16	MXT25	2.5	2.625	168
18	CMW18016X30	16	MXT30	3	2.875	190
18	CMW18016X35	16	MXT35	3.5	3.75	178
18	CMW18016X40	16	MXT40	4	4.125	181
18	CMW18016X45	16	MXT45	4.5	4.75	171
18	CMW18018X25	18	MXT25	2.5	2.625	223
18	CMW18018X30	18	MXT30	3	2.875	214
18	CMW18018X35	18	MXT35	3.5	3.75	195
18	CMW18018X40	18	MXT40	4	4.125	207
18	CMW18018X45	18	MXT45	4.5	4.75	197
18	CMW18020X25	20	MXT25	2.5	2.625	226
18	CMW18020X30	20	MXT30	3	2.875	238
18	CMW18020X35	20	MXT35	3.5	3.75	224
18	CMW18020X40	20	MXT40	4	4.125	234
18	CMW18020X45	20	MXT45	4.5	4.75	223
18	CMW18022X25	22	MXT25	2.5	2.625	265
18	CMW18022X30	22	MXT30	3	2.875	262
18	CMW18022X35	22	MXT35	3.5	3.75	250
18	CMW18022X40	22	MXT40	4	4.125	250
18	CMW18022X45	22	MXT45	4.5	4.75	242
18	CMW18024X25	24	MXT25	2.5	2.625	286
18	CMW18024X30	24	MXT30	3	2.875	286
18	CMW18024X35	24	MXT35	3.5	3.75	274
18	CMW18024X40	24	MXT40	4	4.125	272
18	CMW18024X45	24	MXT45	4.5	4.75	264
18	CMW18026X25	26	MXT25	2.5	2.625	307
18	CMW18026X30	26	MXT30	3	2.875	311
18	CMW18026X35	26	MXT35	3.5	3.75	298
18	CMW18026X40	26	MXT40	4	4.125	294

* General position for Bushing face - for position per application consult *Martin*.
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Wing Pulleys Mine Duty



Mine Duty Wing Pulleys

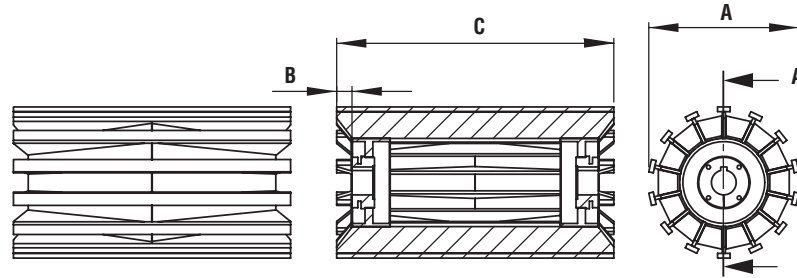
Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
18	CMW18026X45	26	MXT45	4.5	4.75	286
18	CMW18030X25	30	MXT25	2.5	2.625	347
18	CMW18030X30	30	MXT30	3	2.875	359
18	CMW18030X35	30	MXT35	3.5	3.75	346
18	CMW18030X40	30	MXT40	4	4.125	338
18	CMW18030X45	30	MXT45	4.5	4.75	330
18	CMW18032X25	32	MXT25	2.5	2.625	367
18	CMW18032X30	32	MXT30	3	2.875	384
18	CMW18032X35	32	MXT35	3.5	3.75	370
18	CMW18032X40	32	MXT40	4	4.125	361
18	CMW18032X45	32	MXT45	4.5	4.75	352
18	CMW18036X25	36	MXT25	2.5	2.625	408
18	CMW18036X30	36	MXT30	3	2.875	432
18	CMW18036X35	36	MXT35	3.5	3.75	419
18	CMW18036X40	36	MXT40	4	4.125	405
18	CMW18036X45	36	MXT45	4.5	4.75	397
18	CMW18038X25	38	MXT25	2.5	2.625	428
18	CMW18038X30	38	MXT30	3	2.875	457
18	CMW18038X35	38	MXT35	3.5	3.75	427
18	CMW18038X40	38	MXT40	4	4.125	427
18	CMW18038X45	38	MXT45	4.5	4.75	419
18	CMW18040X25	40	MXT25	2.5	2.625	449
18	CMW18040X30	40	MXT30	3	2.875	481
18	CMW18040X35	40	MXT35	3.5	3.75	468
18	CMW18040X40	40	MXT40	4	4.125	449
18	CMW18044X25	44	MXT25	2.5	2.625	489
18	CMW18044X30	44	MXT30	3	2.875	530
18	CMW18044X35	44	MXT35	3.5	3.75	517
18	CMW18044X40	44	MXT40	4	4.125	494
18	CMW18044X45	44	MXT45	4.5	4.75	486
18	CMW18046X25	46	MXT25	2.5	2.625	510
18	CMW18046X30	46	MXT30	3	2.875	554
18	CMW18046X35	46	MXT35	3.5	3.75	541
18	CMW18046X40	46	MXT40	4	4.125	516
18	CMW18046X45	46	MXT45	4.5	4.75	508
18	CMW18051X25	51	MXT25	2.5	2.625	588
18	CMW18051X30	51	MXT30	3	2.875	622
18	CMW18051X35	51	MXT35	3.5	3.75	609
18	CMW18051X40	51	MXT40	4	4.125	583
18	CMW18051X45	51	MXT45	4.5	4.75	575
18	CMW18054X25	54	MXT25	2.5	2.625	618
18	CMW18054X30	54	MXT30	3	2.875	659
18	CMW18063X25	63	MXT25	2.5	2.625	737
18	CMW18063X30	63	MXT30	3	2.875	775
20	CMW20012X25	12	MXT25	2.5	2.625	182
20	CMW20012X30	12	MXT30	3	2.875	179
20	CMW20012X35	12	MXT35	3.5	3.75	161

Mine Duty Wing Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
20	CMW20012X40	12	MXT40	4	4.125	145
20	CMW20012X45	12	MXT45	4.5	4.75	132
20	CMW20014X25	14	MXT25	2.5	2.625	158
20	CMW20014X30	14	MXT30	3	2.875	210
20	CMW20014X35	14	MXT35	3.5	3.75	192
20	CMW20014X40	14	MXT40	4	4.125	172
20	CMW20014X45	14	MXT45	4.5	4.75	159
20	CMW20016X25	16	MXT25	2.5	2.625	190
20	CMW20016X30	16	MXT30	3	2.875	242
20	CMW20016X35	16	MXT35	3.5	3.75	224
20	CMW20016X40	16	MXT40	4	4.125	201
20	CMW20016X45	16	MXT45	4.5	4.75	187
20	CMW20018X25	18	MXT25	2.5	2.625	250
20	CMW20018X30	18	MXT30	3	2.875	263
20	CMW20018X35	18	MXT35	3.5	3.75	241
20	CMW20018X40	18	MXT40	4	4.125	229
20	CMW20018X45	18	MXT45	4.5	4.75	215
20	CMW20020X25	20	MXT25	2.5	2.625	253
20	CMW20020X30	20	MXT30	3	2.875	286
20	CMW20020X35	20	MXT35	3.5	3.75	262
20	CMW20020X40	20	MXT40	4	4.125	250
20	CMW20020X45	20	MXT45	4.5	4.75	244
20	CMW20022X25	22	MXT25	2.5	2.625	285
20	CMW20022X30	22	MXT30	3	2.875	309
20	CMW20022X35	22	MXT35	3.5	3.75	284
20	CMW20022X40	22	MXT40	4	4.125	275
20	CMW20022X45	22	MXT45	4.5	4.75	266
20	CMW20024X25	24	MXT25	2.5	2.625	319
20	CMW20024X30	24	MXT30	3	2.875	332
20	CMW20024X35	24	MXT35	3.5	3.75	305
20	CMW20024X40	24	MXT40	4	4.125	300
20	CMW20024X45	24	MXT45	4.5	4.75	290
20	CMW20026X25	26	MXT25	2.5	2.625	343
20	CMW20026X30	26	MXT30	3	2.875	356
20	CMW20026X35	26	MXT35	3.5	3.75	326
20	CMW20026X40	26	MXT40	4	4.125	325
20	CMW20026X45	26	MXT45	4.5	4.75	315
20	CMW20030X25	30	MXT25	2.5	2.625	389
20	CMW20030X30	30	MXT30	3	2.875	402
20	CMW20030X35	30	MXT35	3.5	3.75	368
20	CMW20030X40	30	MXT40	4	4.125	375
20	CMW20030X45	30	MXT45	4.5	4.75	365
20	CMW20032X25	32	MXT25	2.5	2.625	412
20	CMW20032X30	32	MXT30	3	2.875	425
20	CMW20032X35	32	MXT35	3.5	3.75	389
20	CMW20032X40	32	MXT40	4	4.125	400
20	CMW20032X45	32	MXT45	4.5	4.75	390

* General position for Bushing face - for position per application consult *Martin*.

BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.



Mine Duty Wing Pulleys

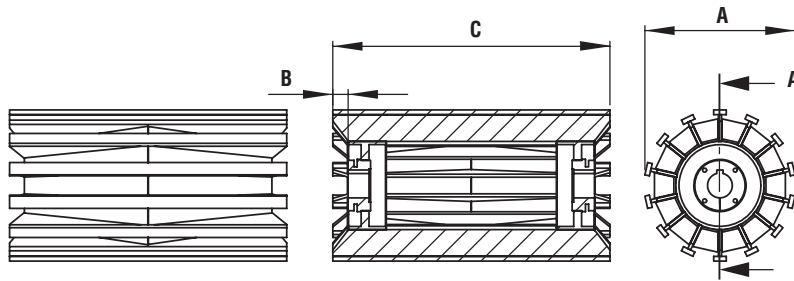
Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
20	CMW20036X25	36	MXT25	2.5	2.625	459
20	CMW20036X30	36	MXT30	3	2.875	472
20	CMW20036X35	36	MXT35	3.5	3.75	432
20	CMW20036X40	36	MXT40	4	4.125	450
20	CMW20036X45	36	MXT45	4.5	4.75	440
20	CMW20038X25	38	MXT25	2.5	2.625	482
20	CMW20038X30	38	MXT30	3	2.875	495
20	CMW20038X35	38	MXT35	3.5	3.75	453
20	CMW20038X40	38	MXT40	4	4.125	475
20	CMW20038X45	38	MXT45	4.5	4.75	465
20	CMW20040X25	40	MXT25	2.5	2.625	505
20	CMW20040X30	40	MXT30	3	2.875	518
20	CMW20040X35	40	MXT35	3.5	3.75	474
20	CMW20040X40	40	MXT40	4	4.125	500
20	CMW20040X45	40	MXT45	4.5	4.75	490
20	CMW20044X25	44	MXT25	2.5	2.625	552
20	CMW20044X30	44	MXT30	3	2.875	565
20	CMW20044X35	44	MXT35	3.5	3.75	517
20	CMW20044X40	44	MXT40	4	4.125	551
20	CMW20044X45	44	MXT45	4.5	4.75	541
20	CMW20046X25	46	MXT25	2.5	2.625	575
20	CMW20046X30	46	MXT30	3	2.875	588
20	CMW20046X35	46	MXT35	3.5	3.75	538
20	CMW20046X40	46	MXT40	4	4.125	576
20	CMW20046X45	46	MXT45	4.5	4.75	566
20	CMW20051X25	51	MXT25	2.5	2.625	661
20	CMW20051X30	51	MXT30	3	2.875	674
20	CMW20051X35	51	MXT35	3.5	3.75	624
20	CMW20051X40	51	MXT40	4	4.125	650
20	CMW20051X45	51	MXT45	4.5	4.75	641
20	CMW20054X25	54	MXT25	2.5	2.625	695
20	CMW20054X30	54	MXT30	3	2.875	709
20	CMW20054X35	54	MXT35	3.5	3.75	655
20	CMW20054X40	54	MXT40	4	4.125	688
20	CMW20054X45	54	MXT45	4.5	4.75	678
20	CMW20057X25	57	MXT25	2.5	2.625	730
20	CMW20057X30	57	MXT30	3	2.875	754
20	CMW20057X35	57	MXT35	3.5	3.75	687
20	CMW20057X40	57	MXT40	4	4.125	726
20	CMW20057X45	57	MXT45	4.5	4.75	716
20	CMW20060X25	60	MXT25	2.5	2.625	765
20	CMW20060X30	60	MXT30	3	2.875	779
20	CMW20060X35	60	MXT35	3.5	3.75	719
20	CMW20060X40	60	MXT40	4	4.125	764
20	CMW20060X45	60	MXT45	4.5	4.75	754
20	CMW20063X25	63	MXT25	2.5	2.625	828
20	CMW20063X30	63	MXT30	3	2.875	841

Mine Duty Wing Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
20	CMW20063X35	63	MXT35	3.5	3.75	784
20	CMW20063X40	63	MXT40	4	4.125	813
20	CMW20063X45	63	MXT45	4.5	4.75	804
20	CMW20066X25	66	MXT25	2.5	2.625	863
20	CMW20066X30	66	MXT30	3	2.875	876
20	CMW20066X35	66	MXT35	3.5	3.75	815
20	CMW20066X40	66	MXT40	4	4.125	851
20	CMW20066X45	66	MXT45	4.5	4.75	841
24	CMW24012X25	12	MXT25	2.5	2.625	235
24	CMW24012X30	12	MXT30	3	2.875	229
24	CMW24012X35	12	MXT35	3.5	3.75	209
24	CMW24012X40	12	MXT40	4	4.125	190
24	CMW24012X45	12	MXT45	4.5	4.75	176
24	CMW24014X25	14	MXT25	2.5	2.625	219
24	CMW24014X30	14	MXT30	3	2.875	268
24	CMW24014X35	14	MXT35	3.5	3.75	248
24	CMW24014X40	14	MXT40	4	4.125	226
24	CMW24014X45	14	MXT45	4.5	4.75	212
24	CMW24016X25	16	MXT25	2.5	2.625	259
24	CMW24016X30	16	MXT30	3	2.875	308
24	CMW24016X35	16	MXT35	3.5	3.75	288
24	CMW24016X40	16	MXT40	4	4.125	263
24	CMW24016X45	16	MXT45	4.5	4.75	249
24	CMW24016X50	16	MXT50	5	5.25	305
24	CMW24018X25	18	MXT25	2.5	2.625	323
24	CMW24018X30	18	MXT30	3	2.875	335
24	CMW24018X35	18	MXT35	3.5	3.75	315
24	CMW24018X40	18	MXT40	4	4.125	301
24	CMW24018X45	18	MXT45	4.5	4.75	286
24	CMW24018X50	18	MXT50	5	5.25	345
24	CMW24020X25	20	MXT25	2.5	2.625	353
24	CMW24020X30	20	MXT30	3	2.875	365
24	CMW24020X35	20	MXT35	3.5	3.75	343
24	CMW24020X40	20	MXT40	4	4.125	339
24	CMW24020X45	20	MXT45	4.5	4.75	324
24	CMW24020X50	20	MXT50	5	5.25	385
24	CMW24022X25	22	MXT25	2.5	2.625	383
24	CMW24022X30	22	MXT30	3	2.875	395
24	CMW24022X35	22	MXT35	3.5	3.75	373
24	CMW24022X40	22	MXT40	4	4.125	357
24	CMW24022X45	22	MXT45	4.5	4.75	362
24	CMW24022X50	22	MXT50	5	5.25	426
24	CMW24024X25	24	MXT25	2.5	2.625	413
24	CMW24024X30	24	MXT30	3	2.875	425
24	CMW24024X35	24	MXT35	3.5	3.75	403
24	CMW24024X40	24	MXT40	4	4.125	387
24	CMW24024X45	24	MXT45	4.5	4.75	380

* General position for Bushing face - for position per application consult *Martin*.
BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.

Wing Pulleys Mine Duty

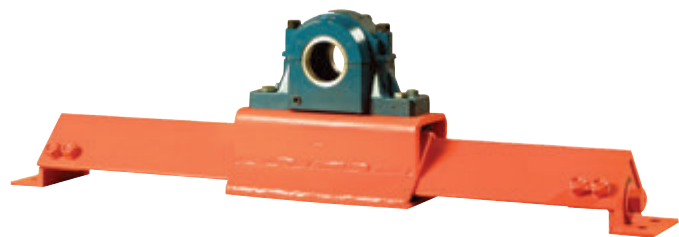


Mine Duty Wing Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
24	CMW24024X50	24	MXT50	5	5.25	467
24	CMW24026X25	26	MXT25	2.5	2.625	443
24	CMW24026X30	26	MXT30	3	2.875	455
24	CMW24026X35	26	MXT35	3.5	3.75	433
24	CMW24026X40	26	MXT40	4	4.125	417
24	CMW24026X45	26	MXT45	4.5	4.75	409
24	CMW24026X50	26	MXT50	5	5.25	477
24	CMW24030X25	30	MXT25	2.5	2.625	504
24	CMW24030X30	30	MXT30	3	2.875	515
24	CMW24030X35	30	MXT35	3.5	3.75	493
24	CMW24030X40	30	MXT40	4	4.125	476
24	CMW24030X45	30	MXT45	4.5	4.75	469
24	CMW24030X50	30	MXT50	5	5.25	537
24	CMW24032X25	32	MXT25	2.5	2.625	534
24	CMW24032X30	32	MXT30	3	2.875	546
24	CMW24032X35	32	MXT35	3.5	3.75	524
24	CMW24032X40	32	MXT40	4	4.125	506
24	CMW24032X45	32	MXT45	4.5	4.75	499
24	CMW24032X50	32	MXT50	5	5.25	567
24	CMW24032X60	32	MXT60	6	1.125	543
24	CMW24036X25	36	MXT25	2.5	2.625	595
24	CMW24036X30	36	MXT30	3	2.875	606
24	CMW24036X35	36	MXT35	3.5	3.75	584
24	CMW24036X40	36	MXT40	4	4.125	566
24	CMW24036X45	36	MXT45	4.5	4.75	559
24	CMW24036X50	36	MXT50	5	5.25	628
24	CMW24038X25	38	MXT25	2.5	2.625	625
24	CMW24038X30	38	MXT30	3	2.875	637
24	CMW24038X35	38	MXT35	3.5	3.75	615
24	CMW24038X40	38	MXT40	4	4.125	596
24	CMW24038X45	38	MXT45	4.5	4.75	589
24	CMW24038X50	38	MXT50	5	5.25	658
24	CMW24038X60	38	MXT60	6	1.125	633
24	CMW24040X25	40	MXT25	2.5	2.625	656
24	CMW24040X30	40	MXT30	3	2.875	667
24	CMW24040X35	40	MXT35	3.5	3.75	645
24	CMW24040X40	40	MXT40	4	4.125	626
24	CMW24040X45	40	MXT45	4.5	4.75	619
24	CMW24040X50	40	MXT50	5	5.25	688
24	CMW24044X25	44	MXT25	2.5	2.625	716
24	CMW24044X30	44	MXT30	3	2.875	728
24	CMW24044X35	44	MXT35	3.5	3.75	706
24	CMW24044X40	44	MXT40	4	4.125	687
24	CMW24044X45	44	MXT45	4.5	4.75	679
24	CMW24044X50	44	MXT50	5	5.25	749
24	CMW24044X60	44	MXT60	6	5.75	723
24	CMW24046X25	46	MXT25	2.5	2.625	747

Mine Duty Wing Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
24	CMW24046X30	46	MXT30	3	2.875	758
24	CMW24046X35	46	MXT35	3.5	3.75	736
24	CMW24046X40	46	MXT40	4	4.125	717
24	CMW24046X45	46	MXT45	4.5	4.75	709
24	CMW24051X25	51	MXT25	2.5	2.625	856
24	CMW24051X30	51	MXT30	3	2.875	867
24	CMW24051X35	51	MXT35	3.5	3.75	845
24	CMW24051X45	51	MXT45	4.5	4.75	811
24	CMW24051X60	51	MXT60	6	5.75	872
24	CMW24054X25	54	MXT25	2.5	2.625	901
24	CMW24054X30	54	MXT30	3	2.875	913
24	CMW24054X35	54	MXT35	3.5	3.75	891
24	CMW24054X40	54	MXT40	4	4.125	869
24	CMW24054X45	54	MXT45	4.5	4.75	856
24	CMW24054X50	54	MXT50	5	5.25	933
24	CMW24054X60	54	MXT60	6	5.75	918
24	CMW24057X25	57	MXT25	2.5	2.625	947



Take-Up Frames Available!

* General position for Bushing face - for position per application consult *Martin*.
BOLD TYPE INDICATES PRODUCT CARRIED IN STOCK. Other sizes are available for quick delivery from nearest *Martin* facility.

Mine Duty Wing Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
16	CMW16044H25	44	M-HE25	2.5	.75	432
16	CMW16051H25	51	M-HE25	2.5	.75	506
18	CMW18038H25	38	M-HE25	2.5	.75	427
18	CMW18044H25	44	M-HE25	2.5	.75	493
18	CMW18051H25	51	M-HE25	2.5	.75	583
18	CMW18054H25	54	M-HE25	2.5	.75	616
18	CMW18054H30	54	M-HE30	3	.875	660
18	CMW18063H25	63	M-HE25	2.5	.75	728
18	CMW18063H30	63	M-HE30	3	.875	777
20	CMW20026H30	26	M-HE30	3	.875	323
20	CMW20026H35	26	M-HE35	3.5	.875	320
20	CMW20026H40	26	M-HE40	4	1	336
20	CMW20026H45	26	M-HE45	4.5	1	343
20	CMW20032H35	32	M-HE35	3.5	.875	389
20	CMW20032H45	32	M-HE45	4.5	1	418
20	CMW20038H35	38	M-HE35	3.5	.875	458
20	CMW20038H45	38	M-HE45	4.5	1	494
20	CMW20044H25	44	M-HE25	2.5	.75	555
20	CMW20044H30	44	M-HE30	3	.875	530
20	CMW20051H25	51	M-HE25	2.5	.75	655
20	CMW20051H30	51	M-HE30	3	.875	628
20	CMW20051H40	51	M-HE40	4	1	662
20	CMW20054H25	54	M-HE25	2.5	.75	692
20	CMW20054H30	54	M-HE30	3	.875	663
20	CMW20054H35	54	M-HE35	3.5	.875	660
20	CMW20054H40	54	M-HE40	4	1	700
20	CMW20054H45	54	M-HE45	4.5	1	707
20	CMW20057H35	57	M-HE35	3.5	.875	695
20	CMW20057H40	57	M-HE40	4	1	738
20	CMW20063H25	63	M-HE25	2.5	.75	818
20	CMW20063H30	63	M-HE30	3	.875	784
20	CMW20063H35	63	M-HE35	3.5	.875	782
20	CMW20063H40	63	M-HE40	4	1	825
20	CMW20063H45	63	M-HE45	4.5	1	833
24	CMW24032H40	32	M-HE40	4	1	521
24	CMW24032H50	32	M-HE50	5	1	539
24	CMW24032H60	32	M-HE60	6	1.125	542
24	CMW24038H50	38	M-HE50	5	1	629
24	CMW24038H60	38	M-HE60	6	1.125	634
24	CMW24044H45	44	M-HE45	4.5	1	708
24	CMW24044H50	44	M-HE50	5	1	719
24	CMW24044H60	44	M-HE60	6	1.125	722
24	CMW24051H30	51	M-HE30	3	.875	861
24	CMW24051H45	51	M-HE45	4.5	1	840
24	CMW24051H60	51	M-HE60	6	1.125	872
24	CMW24054H30	54	M-HE30	3	.875	926
24	CMW24054H35	54	M-HE35	3.5	.875	923
24	CMW24054H40	54	M-HE40	4	1	893
24	CMW24054H45	54	M-HE45	4.5	1	901
24	CMW24054H50	54	M-HE50	5	1	912
24	CMW24054H60	54	M-HE60	6	1.125	917
24	CMW24057H60	57	M-HE60	6	1.125	962
24	CMW24063H30	63	M-HE30	3	.875	1075
24	CMW24063H35	63	M-HE35	3.5	.875	11072
24	CMW24063H45	63	M-HE45	4.5	1	1048
24	CMW24063H50	63	M-HE50	5	1	1059
24	CMW24063H60	63	M-HE60	6	1.125	1097
30	CMW30038H30	38	M-HE30	3	.875	789

Mine Duty Wing Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
30	CMW30038H35	38	M-HE35	3.5	.875	486
30	CMW30038H40	38	M-HE40	4	1	793
30	CMW30038H45	38	M-HE45	4.5	1	800
30	CMW30038H50	38	M-HE50	5	1	810
30	CMW30038H60	38	M-HE60	6	1.125	782
30	CMW30044H30	44	M-HE30	3	.875	905
30	CMW30044H35	44	M-HE35	3.5	.875	901
30	CMW30044H50	44	M-HE50	5	1	926
30	CMW30044H60	44	M-HE60	6	1.125	897
30	CMW30051H30	51	M-HE30	3	.875	1084
30	CMW30051H35	51	M-HE35	3.5	.875	1080
30	CMW30051H50	51	M-HE50	5	1	1104
30	CMW30051H60	51	M-HE60	6	1.125	1076
30	CMW30054H30	54	M-HE30	3	.875	1142
30	CMW30054H35	54	M-HE35	3.5	.875	1138
30	CMW30054H40	54	M-HE40	4	1	1145
30	CMW30054H45	54	M-HE45	4.5	1	1152
30	CMW30054H50	54	M-HE50	5	1	1162
30	CMW30054H60	54	M-HE60	6	1.125	1134
30	CMW30063H30	63	M-HE30	3	.875	1360
30	CMW30063H35	63	M-HE35	3.5	.875	1356
30	CMW30063H40	63	M-HE40	4	1	1363
30	CMW30063H45	63	M-HE45	4.5	1	1370
30	CMW30063H50	63	M-HE50	5	1	1380
30	CMW30063H60	63	M-HE60	6	1.125	1351
36	CMW36044H30	44	M-HE30	3	.875	974
36	CMW36044H35	44	M-HE35	3.5	.875	970
36	CMW36044H40	44	M-HE40	4	1	976
36	CMW36044H45	44	M-HE45	4.5	1	983
36	CMW36044H50	44	M-HE50	5	1	993
36	CMW36044H60	44	M-HE60	6	1.125	958
36	CMW36051H30	51	M-HE30	3	.875	1157
36	CMW36051H35	51	M-HE35	3.5	.875	1153
36	CMW36051H50	51	M-HE50	5	1	1175
36	CMW36051H60	51	M-HE60	6	1.125	1140
36	CMW36054H30	54	M-HE30	3	.875	1222
36	CMW36054H35	54	M-HE35	3.5	.875	1217
36	CMW36054H40	54	M-HE40	4	1	1224
36	CMW36054H45	54	M-HE45	4.5	1	1230
36	CMW36054H50	54	M-HE50	5	1	1240
36	CMW36054H60	54	M-HE60	6	1.125	1205
36	CMW36063H30	63	M-HE30	3	.875	1448
36	CMW36063H35	63	M-HE35	3.5	.875	1444
36	CMW36063H40	63	M-HE40	4	1	1450
36	CMW36063H45	63	M-HE45	4.5	1	1456
36	CMW36063H50	63	M-HE50	5	1	1467
36	CMW36063H60	63	M-HE60	6	1.125	1431



Custom Shafting Available!

* General position for Bushing face - for position per application consult *Martin*.

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Wing Pulleys Quarry Duty



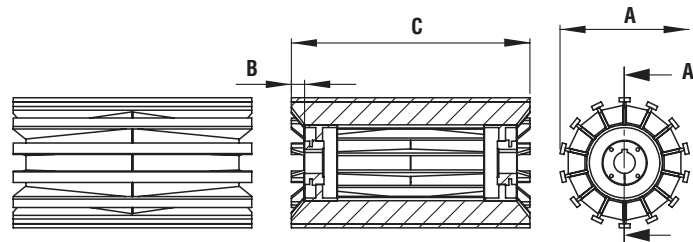
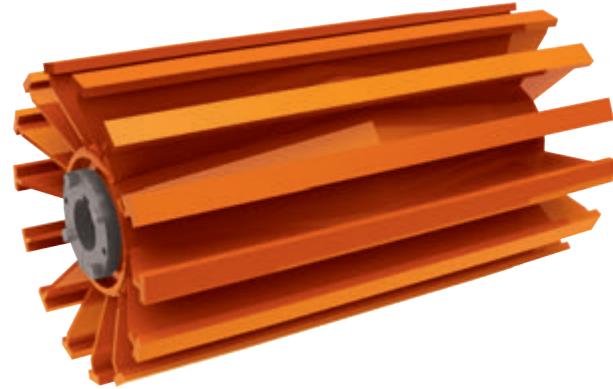
Martin's Quarry Duty Wing Pulleys are constructed from extremely heavy materials and are recognized in the industry as the most aggressive Wing Pulley in the business. All *Martin* Wing Pulleys utilize the unique 'end-pipe' design, which offers ultimate protection against Wing folding and hub-weld fatigue. Our minimum .75" thick contact bar yields additional life in abrasive applications while our competitors thinner bar does not. Additionally, our .375" thick Wing and .25" gussets offer higher structural support in aggressive applications.

All *Martin* Quarry Duty Wing Pulleys utilize full depth keyed Bushings which offer maximum clamping force on the Shaft and minimize "Pulley walking." The Quarry Duty Wing Pulley has changed the industry and has spawned many 'knock-offs,' but none have been able to reproduce the original!

For the most aggressive applications, specify the best, specify the *Martin* Quarry Duty Wing Pulley!

Features:

- Available in 10" thru 60" Diameter
- Minimum .75" x 2" Contact Bars
- Minimum .375" Thick Wings
- Minimum .25" Gussets
- Several Hub/Bushing Systems Available
- Features Unique *Martin* "End Pipe" Design
 - Better Protection Against Wing Folding
 - Better Protection Against Hub-Weld Fatigue
- Features Full Depth Keyed Bushings for Higher Clamping to Shaft



Martin's Quarry Duty Wing Pulleys are manufactured with Crown face. Flat face available upon request.

Quarry Duty Wing Pulleys

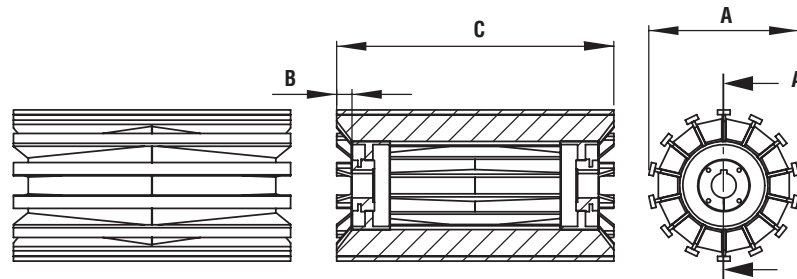
Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
12	CQW12026X35	26	MXT35	3.5	3.75	211
12	CQW12038X35	38	MXT35	3.5	3.75	307
14	CQW14026X25	26	MXT25	2.5	2.625	275
14	CQW14032X25	32	MXT25	2.5	2.625	330
14	CQW14038X25	38	MXT25	2.5	2.625	395
14	CQW14044X25	44	MXT25	2.5	2.625	459
14	CQW14051X25	51	MXT25	2.5	2.625	537
16	CQW16026X25	26	MXT25	2.5	2.625	296
16	CQW16026X30	26	MXT30	3	2.875	293
16	CQW16026X35	26	MXT35	3.5	3.75	282
16	CQW16032X25	32	MXT25	2.5	2.625	367
16	CQW16032X30	32	MXT30	3	2.875	360
16	CQW16032X35	32	MXT35	3.5	3.75	350
16	CQW16038X25	38	MXT25	2.5	2.625	440
16	CQW16038X30	38	MXT30	3	2.875	428
16	CQW16038X35	38	MXT35	3.5	3.75	417
16	CQW16044X25	44	MXT25	2.5	2.625	513
16	CQW16044X30	44	MXT30	3	2.875	495
16	CQW16044X35	44	MXT35	3.5	3.75	484
16	CQW16044X40	44	MXT40	4	4.75	473
16	CQW16051X25	51	MXT25	2.5	2.625	600
16	CQW16051X30	51	MXT30	3	2.875	581
16	CQW16051X35	51	MXT35	3.5	3.75	570
16	CQW16051X45	51	MXT45	4.5	4.75	551
18	CQW18026X25	26	MXT25	2.5	2.625	378
18	CQW18026X30	26	MXT30	3	2.875	369
18	CQW18026X35	26	MXT35	3.5	3.75	355

Quarry Duty Wing Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
18	CQW18026X40	26	MXT40	4	4.125	352
18	CQW18032X25	32	MXT25	2.5	2.625	471
18	CQW18032X30	32	MXT30	3	2.875	456
18	CQW18032X35	32	MXT35	3.5	3.75	442
18	CQW18032X40	32	MXT40	4	4.125	433
18	CQW18038X25	38	MXT25	2.5	2.625	569
18	CQW18038X30	38	MXT30	3	2.875	543
18	CQW18038X35	38	MXT35	3.5	3.75	529
18	CQW18038X40	38	MXT40	4	4.125	514
18	CQW18044X25	44	MXT25	2.5	2.625	657
18	CQW18044X30	44	MXT30	3	2.875	630
18	CQW18044X35	44	MXT35	3.5	3.75	616
18	CQW18044X40	44	MXT40	4	4.125	595
18	CQW18051X25	51	MXT25	2.5	2.625	769
18	CQW18051X30	51	MXT30	3	2.875	738
18	CQW18051X35	51	MXT35	3.5	3.75	724
18	CQW18051X40	51	MXT40	4	4.125	701
18	CQW18051X45	51	MXT45	3.5	3.75	692
18	CQW18051X50	51	MXT50	3.5	3.75	705
18	CQW18063X25	63	MXT25	2.5	2.625	959
18	CQW18063X30	63	MXT30	3	2.875	920
18	CQW18063X35	63	MXT35	3.5	3.75	905
18	CQW18063X40	63	MXT40	4	4.125	874
20	CQW20026X30	26	MXT30	3	2.875	404
20	CQW20026X35	26	MXT35	3.5	3.75	389
20	CQW20026X40	26	MXT40	4	4.125	384
20	CQW20026X45	26	MXT45	4.5	4.75	374

* General position for Bushing face - for position per application consult *Martin*.

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Quarry Duty Wing Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
20	CQW20032X30	32	MXT30	3	2.875	500
20	CQW20032X35	32	MXT35	3.5	.875	484
20	CQW20032X40	32	MXT40	4	4.125	473
20	CQW20032X45	32	MXT45	4.5	4.75	463
20	CQW20038X30	38	MXT30	3	2.875	596
20	CQW20038X35	38	MXT35	3.5	3.75	580
20	CQW20038X40	38	MXT40	4	4.125	563
20	CQW20038X45	38	MXT45	4.5	4.75	553
20	CQW20044X30	44	MXT30	3	2.875	692
20	CQW20044X35	44	MXT35	3.5	3.75	676
20	CQW20044X40	44	MXT40	4	4.125	653
20	CQW20044X45	44	MXT45	4.5	4.75	643
20	CQW20051X30	51	MXT30	3	2.875	811
20	CQW20051X35	51	MXT35	3.5	3.75	795
20	CQW20051X40	51	MXT40	4	4.125	770
20	CQW20051X45	51	MXT45	4.5	4.75	760
20	CQW20063X30	63	MXT30	3	2.875	1011
20	CQW20063X35	63	MXT35	3.5	3.75	994
20	CQW20063X40	63	MXT40	4	4.125	962
20	CQW20063X45	63	MXT45	4.5	4.75	952
24	CQW24032X30	32	MXT30	3	2.875	638
24	CQW24032X35	32	MXT35	3.5	3.75	614
24	CQW24032X40	32	MXT40	4	4.125	596
24	CQW24032X45	32	MXT45	4.5	4.75	587
24	CQW24032X50	32	MXT50	5	5.25	659
24	CQW24032X60	32	MXT60	6	5.75	630
24	CQW24038X30	38	MXT30	3	2.875	746
24	CQW24038X35	38	MXT35	3.5	3.75	723
24	CQW24038X40	38	MXT40	4	4.125	703
24	CQW24038X45	38	MXT45	4.5	4.25	695
24	CQW24038X50	38	MXT50	5	5.25	767
24	CQW24038X60	38	MXT60	6	5.75	736
24	CQW24044X30	44	MXT30	3	2.875	855
24	CQW24044X35	44	MXT35	3.5	3.75	831
24	CQW24044X40	44	MXT40	4	4.125	811
24	CQW24044X45	44	MXT45	4.5	4.25	803
24	CQW24044X50	44	MXT50	5	5.25	875
24	CQW24044X60	44	MXT60	6	5.75	845
24	CQW24051X30	51	MXT30	3	2.875	1015
24	CQW24051X35	51	MXT35	3.5	3.75	991
24	CQW24051X40	51	MXT40	4	4.125	964
24	CQW24051X45	51	MXT45	4.5	4.25	956
24	CQW24051X50	51	MXT50	5	5.25	1035
24	CQW24051X60	51	MXT60	6	5.75	1015
24	CQW24057X50	57	MXT50	5	5.25	1144
24	CQW24063X30	63	MXT30	3	2.875	1266
24	CQW24063X35	63	MXT35	3.5	3.75	1242

Quarry Duty Wing Pulleys

Diameter A	Part Number	Face C	Hub	Max Bore	Setback B*	Approx. Weight (lb)
24	CQW24063X40	63	MXT40	4	4.125	1207
24	CQW24063X45	63	MXT45	4.5	4.25	1199
24	CQW24063X50	63	MXT50	5	5.25	1285
24	CQW24063X60	63	MXT60	6	5.75	1275
30	CQW30038X35	38	MXT35	3.5	3.75	896
30	CQW30038X40	38	MXT40	4	4.125	901
30	CQW30038X45	38	MXT45	4.5	4.75	890
30	CQW30038X50	38	MXT50	5	5.25	898
30	CQW30038X60	38	MXT60	6	5.75	908
30	CQW30044X35	44	MXT35	3.5	3.75	1033
30	CQW30044X40	44	MXT40	4	4.125	1037
30	CQW30044X45	44	MXT45	4.5	4.25	1027
30	CQW30044X50	44	MXT50	5	5.25	1034
30	CQW30044X60	44	MXT60	6	5.75	1044
30	CQW30051X35	51	MXT35	3.5	3.75	1236
30	CQW30051X40	51	MXT40	4	4.125	1241
30	CQW30051X45	51	MXT45	4.5	4.25	1230
30	CQW30051X50	51	MXT50	5	5.25	1238
30	CQW30051X60	51	MXT60	6	5.75	1247
30	CQW30063X35	63	MXT35	3.5	3.75	1554
30	CQW30063X40	63	MXT40	4	4.125	1559
30	CQW30063X45	63	MXT45	4.5	4.25	1548
30	CQW30063X50	63	MXT50	5	5.25	1556
30	CQW30063X60	63	MXT60	6	5.75	1565
30	CQW36044X35	44	MXT35	3.5	3.75	1033
36	CQW36044X40	44	MXT40	4	4.125	1129
36	CQW36044X45	44	MXT45	4.5	4.25	1116
36	CQW36044X50	44	MXT50	5	5.25	1123
36	CQW36044X60	44	MXT60	6	5.75	1130
36	CQW36051X35	51	MXT35	3.5	3.75	1236
36	CQW36051X40	51	MXT40	4	4.125	1341
36	CQW36051X45	51	MXT45	4.5	4.25	1328
36	CQW36051X50	51	MXT50	5	5.25	1335
36	CQW36051X60	51	MXT60	6	5.75	1342
36	CQW36063X35	63	MXT35	3.5	3.75	1679
36	CQW36063X40	63	MXT40	4	4.125	1682
36	CQW36063X45	63	MXT45	4.5	4.25	1669
36	CQW36063X50	63	MXT50	5	5.25	1676
36	CQW36063X60	63	MXT60	6	5.75	1683



Custom Shafting Available!

* General position for Bushing face - for position per application consult *Martin*.
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Wing Pulleys Quarry Duty AR

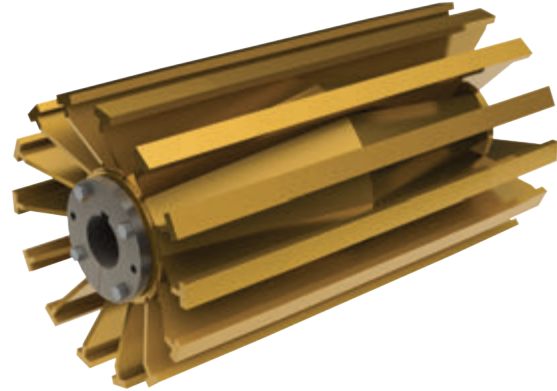


Martin Quarry Duty “AR” (abrasive resistant) Wing Pulleys are constructed with AR400 .75” x 2” heavy contact bars and are recognized in the industry as a true problem solving Pulley. All *Martin* Quarry Duty “AR” Wing Pulleys utilize the unique ‘end-pipe’ design, which offers ultimate protection against Wing folding and hub-weld fatigue. Our .75” AR400 contact bar yields maximum life in super abrasive applications while our competitors thinner A36 mild steel bar does not. Additionally, our .5” thick Wing and .25” gussets offer higher structural support in aggressive applications.

All *Martin* Quarry Duty “AR” Wing Pulleys utilize full depth keyed Bushings which offer maximum clamping force on the Shaft and minimize “Pulley walking.” The Quarry Duty “AR” Wing Pulley has changed the industry and solved the problem of premature bar wear plaguing users in some of the most aggressive applications.

Features:

- Available in 10” thru 60” Diameter
- Minimum .75” x 2” Contact Bars “AR400” Abrasive Resistant Steel
- Minimum .5” Thick Wings
- Minimum .25” Gussets
- Features Unique *Martin* “End Pipe” Design
 - Better Protection Against Wing Folding
 - Better Protection Against Hub-Weld Fatigue
- Features Full Depth Keyed Bushings for Higher Clamping to Shaft



Martin Engineered Class Pulleys are Designed to Provide Long Life and Reliability

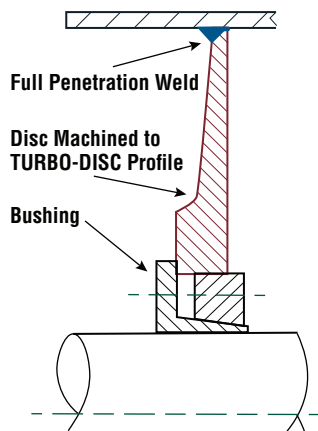
The *Martin* Engineered Class Pulley (ECP) line is not limited to just high tonnage and extreme applications. This class of Pulley can be used effectively in every industry to ensure optimum performance and Pulley longevity. The Conveyor Equipment Manufacturers Association (CEMA) defines Engineered Class Pulleys as “One which has been specifically designed to meet load conditions of a particular Conveyor Pulley”.

Martin Engineered Class Pulleys are manufactured with the following processes:

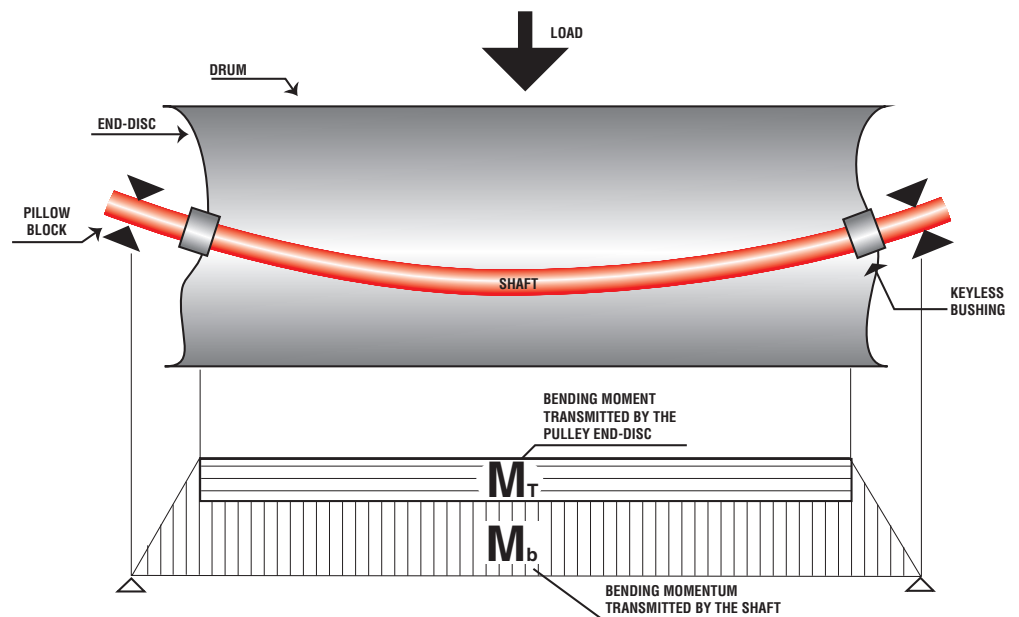
- Full penetration weld using a high-strength submerged arc process
- Keyless locking device reduces stress at the Pulley-to-Shaft assembly, eliminating a weld failure
- CNC Machining of end-discs and Shafts
- Ultrasonic Tested Weldment is available
- Magnetic Particle Testing Weldment is available
- Thermal Stress Relieving ensures each component in the Pulley operates as a Pulley system
- Static Balancing is standard and Dynamic Balancing is available
- Integral hub, profiled, turbine and T-Bottom end disc designs

Martin Engineered Pulley Design

The diagram below represents the flexible design featured in our Engineering Class Pulleys. As the load is applied, the rim, end-discs, keyless lockers, and the Shaft, all operate in unison, so as to not introduce stress risers.



Engineered Drum Pulley with full penetration weld that provides added strength at high stress points. Additionally, the keyless locking device reduces stress at the Pulley-to-Shaft connection, eliminating weld failure.



Illustrative purposes only. Not reflective of actual loads.

Engineered Class Pulleys MTO Capabilities



Specifications

Martin's Engineered Class Pulleys (ECP) are available as:

- EMD (Engineered Mine Duty)
- TD (Turbo Disc)
- TB (T-Bottom)
- DSP (Dead Shaft Pulley)

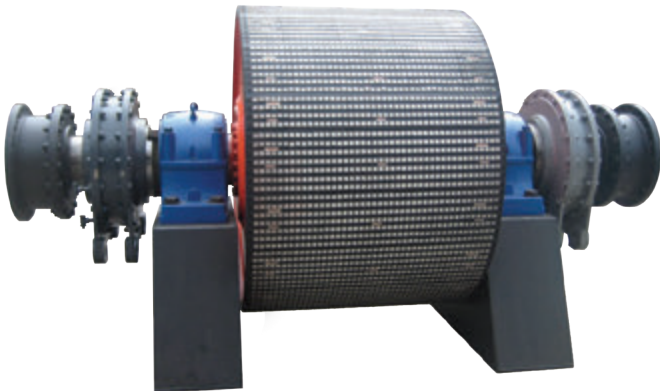
ECP's feature:

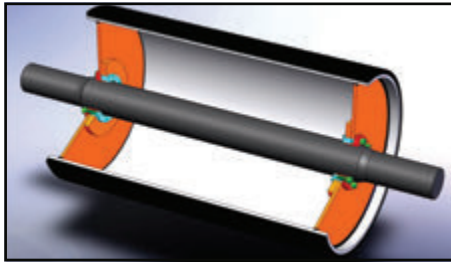
- Keyless locking devices (single engagement in EMD and TD, double engagement in TB's)
 - Higher contact pressures for greater torque transmission
 - No backlash due to fit tolerances
 - Ability to adjust axial position and angular timing
- Full penetration weld in rims and end-disc to rim
- Integral hub design, allowing for pre-stress elimination at lockers
- Profiled end-disc (in Turbo Disc and T-Bottom)
- No center discs
- Statically balanced



Available options include:

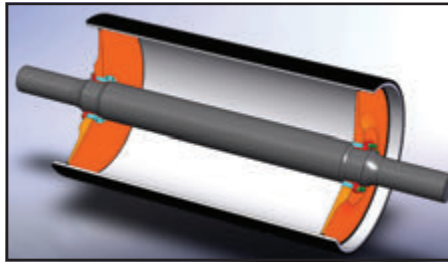
- Lagging
 - 45/60/90 Durometer SBR
 - MSHA (Mine Safety and Hazard Administration) Approved Lagging for Underground Applications
 - Ceramic Lagging (Hot Vulcanized)
 - AR – Abrasive Resistant Lagging
 - SOF (Static Conductive/Oil Resistant/Flame Resistant) Lagging
 - EPDM
 - Molded Urethane Lagging
- Mounted Bearings
- Machined Shafting
 - Available in these Common Grades: 1045 CF, 1045 HR, 4140, Stainless Steel
- Shaft Couplings
- External Backstops
- Fully Assembled Drive Packages





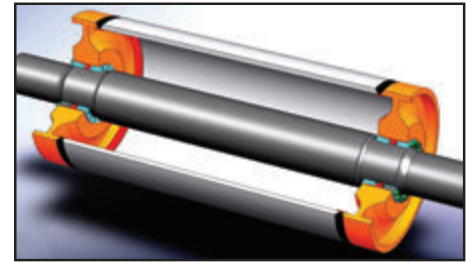
EMD — Engineered Mine Duty

- Solid plate end-discs with backing rings to support reaction forces of keyless locking elements
- End-Discs are Welded Internally and Externally to the rim
- Single engagement keyless locking device for improved torque and bending moment transmission without reducing Shaft strength by adding keyways
- Full penetration weld between end-discs and rim. Pre-qualified weld joint to proper AWS specification, applied by certified welders with semi-automatic, submerged arc welding equipment
- Full penetration longitudinal weld in rim



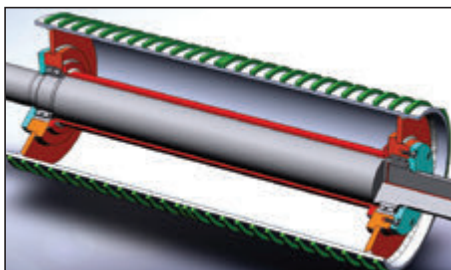
TD — Engineered Turbo-Disc

- One piece machined and profiled end-disc with a custom engineered radius at the transition between the locking element and the rim
- End-Discs are Welded Internally and Externally to the rim
- Single engagement keyless locking device for improved torque and bending moment transmission without reducing Shaft strength by adding keyways
- Full penetration weld between end-discs and rim. Pre-qualified weld joint to proper AWS specification, applied by certified welders with semi-automatic, submerged arc welding equipment
- Full penetration longitudinal weld in rim



TB — Engineered T-Bottom

- Integral Rim and Double Profiled End-Disc with submerged arc weldment fusing T-Bottom end-discs with rim
- Double engagement keyless locking device for maximized torque and bending moment transmission without reducing Shaft strength by adding keyways
- Full penetration weld between end-discs and rim. Pre-qualified weld joint to proper AWS specification, applied by certified welders with semi-automatic, submerged arc welding equipment
- Full penetration longitudinal weld in rim



DSP — Dead Shaft Pulley

- Problem Solving Design for heavy contamination, space restrictions, reduced moment arm at bearings
- Spherical Roller Bearings feature double lip seals for contamination protection
- Lubrication Through Shaft while Pulley is rotating. Sealed for life designs are available for heavy-duty applications
- Inner Grease Tube in place of backside bearing seals to prevent grease from entering Pulley shell instead of lubricating the bearing
- Support Pedestals are sized to replace standard or existing pillow blocks. Same bolt pattern and Shaft height. Shaft held in pedestals with keyless locking device

EMD, TD and TB come Statically balanced and are available with Machined Face

All Engineered Class Pulleys come with Two Year Warranty

Clean Flight® Wing Pulley



Martin Clean Flight® Wing Pulley distinct construction advantages:

- Each flight lies perpendicular to the Pulley core, resulting in a much stronger design
- The CFW is constructed with distinctly aggressive materials and thick flights
- An open herringbone flight placement allows for better material rejection

Operational Advantages:

- **Noise Reduction.**
Users report a reduction in operating decibels from 14% to 22%, depending on belt speed and belt width.
- **Less Vibration in Operation.**
Since the belt is in constant contact with the Clean Flight® Wing outside diameter (OD), the “belt-slapping” observed in traditional Wing Pulley operation is eliminated, as is the operational ambient noise. Decreased vibration also means less stress on the belt, splice, and bearings.
- **Enhanced Belt Tracking.**
Each CFW flight contacts the belt at a helix angle that contributes to the tracking of the belt. The CFW flight operates much like a traditional “spiral” Wing Pulley in assisting belt tracking. The *Martin* CFW is also offered in a crown-face profile.
- **Optimized Belt Cleaning.**
As well as reducing vibration, noise and improving belt tracking, the CFW also cleans the belt more effectively while in operation by shedding materials away from the belt surface. Additionally, the CFW operates with less vibration at the skirt board zones, reducing fines at the loading zone.
- **Improved Material Rejection.**
Traditional Wing Pulley flights contact the conveyed material at a right angle, whereas the CFW actually “plows” material out of harm's way, toward the end of the Pulley, where it safely falls away from the Pulley and belt contact surface. There is never a need for reinforcing rings with a CFW.



Typical Construction Specs:

All Clean Flight® Wing Pulleys (CFW) use the longest pitch possible for each diameter and face width

STANDARD DUTY:
.5" Flight Thickness

MINE DUTY:
.75" Flight Thickness

QUARRY DUTY:
1" Flight Thickness

Special Features:

ASSEMBLY OPTIONS

- Bearing Assemblies
- Take Up Frame Assemblies
- Keyless Lockers for Shaft Connection

BUSHING OPTIONS

- MXT
- M-HE
- QD
- Taper Bushed
- Keyless Locking Device

PULLEY OPTIONS

- Hard Surfacing
- Custom Epoxy Paint
- Special Flight Spacing
- Special Pitch
- Continuous Welding of Flights

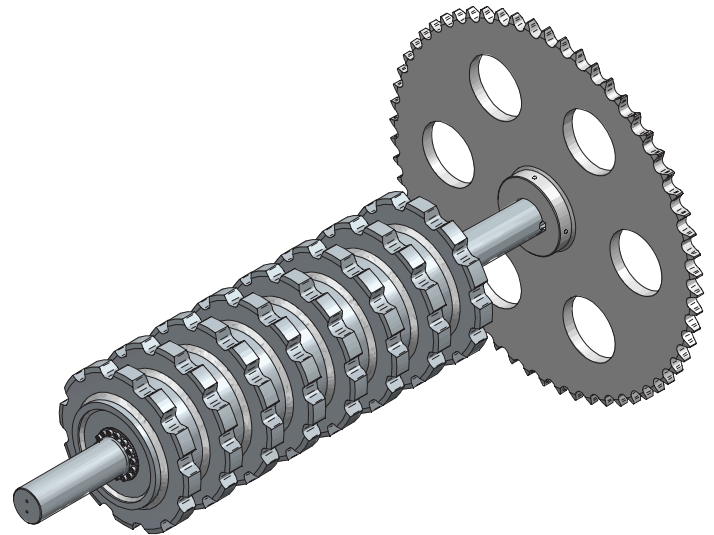
Martin manufactures Sprocket Rollers in any diameter and length in either through Shaft designs, detachable Bushing designs, or stub Shaft “gudgeon” designs. Whatever specific assembly pattern requirements are needed, *Martin* can attach any Accu-Torch® sprocket or Wide Drag Sprocket to the roller core.

Martin can also provide full custom ready to install assemblies with bearings, Shaft, and Drive Sprocket.

Whether it is for a replacement part or a new design, *Martin* is your one stop shop for MTO Sprocket Rollers.



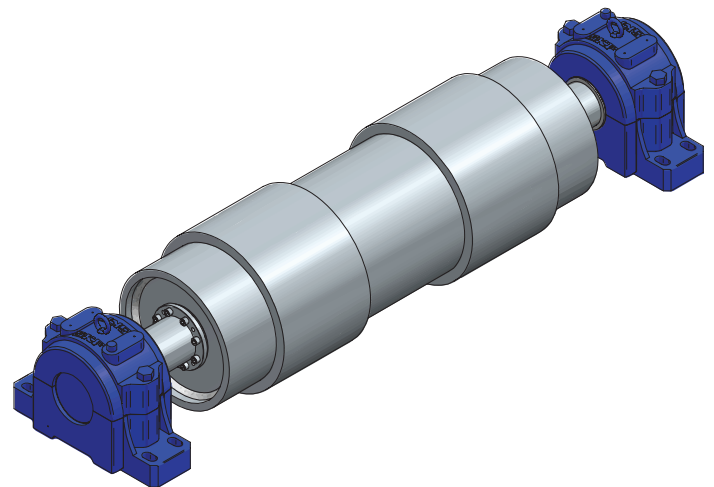
Mill or Engineered Class Chain Sprocket



Sprocket Roller with Driven Sprocket



Drag Chain Sprocket



Complete Traction Wheel Drum Assembly

STYLES

- Complete multiple strand assemblies mounted on Heavy-Duty Drums and supplied with Shafts and bearings
- All steel Wide Drag style using forged teeth
- Double Single style using high carbon steel
- Complete multiple strand assemblies
- Traction wheels

SPROCKET

- Any type of Mill, Engineered Class Chain or Wide Drag Sprockets
- Any taper-bushed system, keyless locking device or weld in Shaft systems can be installed
- Bore Concentric to pitch line, pitch tolerance maintained
- Extensive custom capabilities available

ROLLER BEARING

- Any style Pillow Block Bearing can be mounted on the Sprocket Roller Shaft

ADDITIONAL BENEFITS:

- Induction and flame hardening
- Flanged drums

Other Special Construction Pulleys



Special manufacturing processes require special Pulleys. Whether the equipment is used in mining, chemical, waste processing, or any other demanding application *Martin* has the experience to solve your problem.

With regional manufacturing facilities and knowledgeable sales teams strategically located across North America, *Martin* can meet your needs. *Martin* is the one you can rely on for manufacturing expertise, application experience, and a quick delivery to get you what you need, when you need it.

Martin routinely manufactures special construction Pulleys to provide exceptional wear in even the roughest conditions. Below is a sample of some of the more common specialty Pulleys *Martin* can manufacture.

- Available in Wide Variety of MTO Sizes

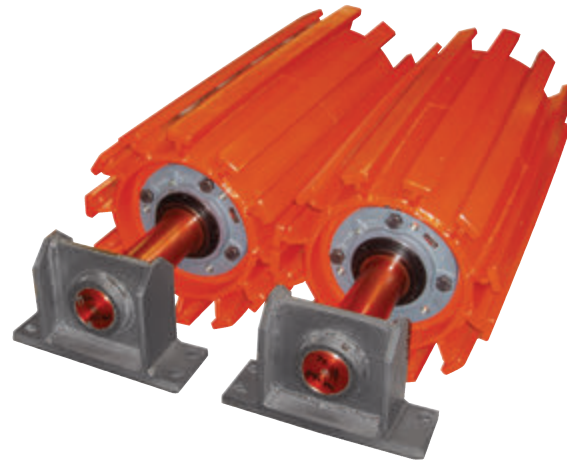
- Meet or Exceed CEMA Standards
- Superior Strength
- Aggressive Construction
- Fast Reliable Service

DSP — Dead Shaft Pulleys

The *Martin* Dead Shaft Pulley (DSP) is designed to withstand the most rugged applications in any harsh environment. The DSP has been used in the industry to help reduce damage to conventional externally mounted pillow block bearings. The DSP features an internal bearing, tucked back close to the Pulley where falling material is less likely to damage the bearings and seals. The *Martin* DSP features an off-the-shelf piloted flange cartridge (interchangeable with multiple bearing manufacturers) suited with harsh environment seals and external end caps for maximum protection against material contamination.

Each *Martin* DSP Pulley is shipped with an aggressively constructed pedestal which is fabricated to drop into the same dimensional footprint of the pillow block which it is replacing (this must be specified at the time of order).

The DSP is available as either Wing or Drum Pulleys.

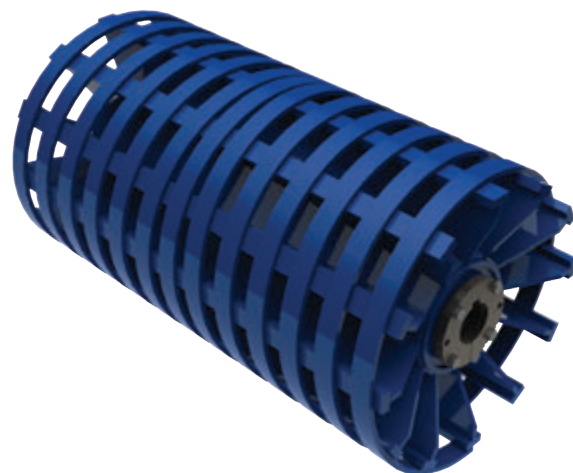


Spiral Pulleys

The *Martin* Spiral Pulley is manufactured with two reverse helix flights wrapped around the Pulley core. The spiral material can vary in thickness and width and is subject to customer specification. The Spiral Pulley is very effective in cleaning the belt while suppressing noise.



Spiral Drum Pulley with 1" x 1" Flight



Spiral Wing Pulley

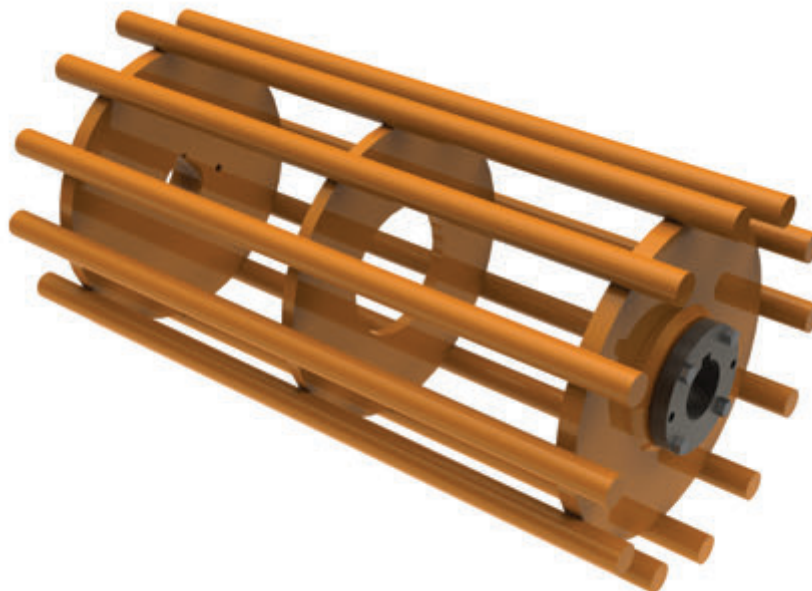
Gudgeon Rollers

Martin offers gudgeon rollers, fabricated from thick wall pipe or tube and fitted with a specially designed end assembly that eliminates Shaft and end disc weld fatigue. Each of these rollers is designed to convey bulk product without a conveyor belt directly over the roller face. Industries such as logging, lumber mills, steel mills and palletized product applications are perfect for the *Martin* Gudgeon Roll.



Cage Rollers

Martin manufactures cage rollers for belt conveyors in almost any custom size requested. Cage rollers are very effective in allowing material to fall through the Pulley. The roller is also known as a “beater roll” and actually shakes the material loose from the belt as it passes over the Pulley.



NOMENCLATURE

VRL

Vulcanized Rubber Lagging

In any conveying application, conveyor belt slippage can be a problem. There are basically three different factors that can cause slippage between a conveyor belt and a Drive Pulley.

1. The coefficient of friction might be too low.
2. The wrap angle of the belt on the Conveyor Pulley might be too small.
3. The tension on the belt might be too low.

The most cost efficient way to reduce the risk of slippage is to install the right type of Pulley lagging on the Drive Pulley. The use of lagging on the Conveyor Pulley performs two functions:

1. Its primary function is to aid in gripping the conveyor belt, thus helping transmit torque from the drive to the Pulley in order to carry the load on the conveyor belt.
2. Lagging also prolongs the wear life of the Pulley.

Vulcanized lagging is a rubber compound that has been cured in an autoclave, which typically results in a 60-70 durometer material. After curing, the lagging can be grooved and/or machined.

HBL

Herringbone Lagging

Martin offers vulcanized rubber lagging on all of our Drum Pulleys. After preparation of the Pulley, rubber is applied directly to the face by extrusion. Our lagging department has perfected the process and can apply rubber in any thickness to any diameter Pulley. The precise pressure, temperature and curing time ensures a quality bond on each Pulley.

We offer several grooving patterns in the cured rubber, but among the most popular are Herringbone and Diamond Groove. The standard hardness for Pulley lagging ranges from 60-70, but other durometers are available upon request.

DGL

Diamond Grooved Lagging

Vulcanized Lagging - Plain

Plain vulcanized lagging is suitable for any Pulley in the conveyor system where watershed is not necessary. It provides additional protection against belt wear and increases the life of the Pulley.

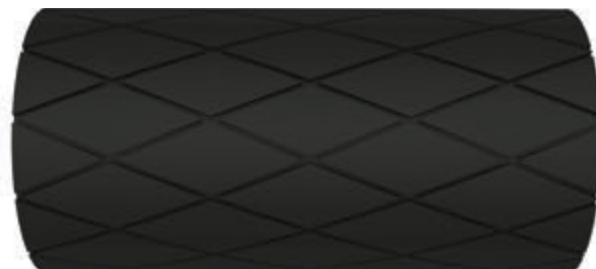


Vulcanized Lagging - Herringbone

Herringbone Grooved Lagging offers superior tractive properties and is desired on all Drive Pulley applications. Each groove offers a path for water and other liquids to escape between the Pulley face and the conveyor belt. Herringbone grooved Pulleys are directional and should be applied to the conveyor in a manner in which the grooves point toward the direction of belt travel.

Vulcanized Lagging - Diamond Grooved

Diamond Grooved Lagging also offers superior tractive properties and should be specified on all reversing conveyor applications.



MSHA — Mine and Safety Hazard Approved

Mine and Safety Hazard Approved Lagging (MSHA) should be used in all underground coal mining applications and any application where fire safety is imperative. *Martin's* MSHA lagging compound has been approved by the United States Federal Government to apply on all Pulleys in mining applications where fire safety is required. The MSHA compound is clearly labeled on each Pulley and stamped with our government ID on each Pulley. Minimum required thickness for MSHA lagging is .5".

The MSHA compound can be shipped as plain, herringbone or diamond grooved



AR — Abrasive Resistant

Abrasive Resistant Lagging is a very popular compound in the most rugged applications where protection against highly abrasive conveyed materials is required. *Martin's* AR (abrasive resistant) compound was developed with the engineering support and technical experience of chemists from the tire industry. The AR compound mimics the substance used in the tires of the giant "quarry loaders" where resistance to puncture, wear, and chunking has been essential. Our suppliers have learned through the years that the same technology can be applied to our rubber lagging compounds.

For maximum protection against premature lagging failure, specify *Martin's* AR Lagging!

Ceramic (Hot Vulcanized)

Vulcanized Ceramic Lagging by *Martin* has proven to be the best in the industry. *Martin* has worked closely with independent testing labs to study adhesion strengths of several bonding methods. Our studies found that the *Martin* VC Lagg yield an 83% higher bonding strength than conventional cold bonding methods for ceramic lagging compounds.



Lagging



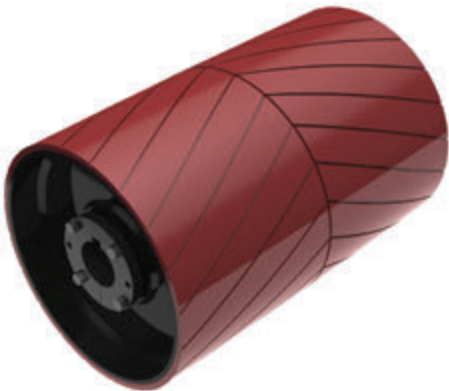
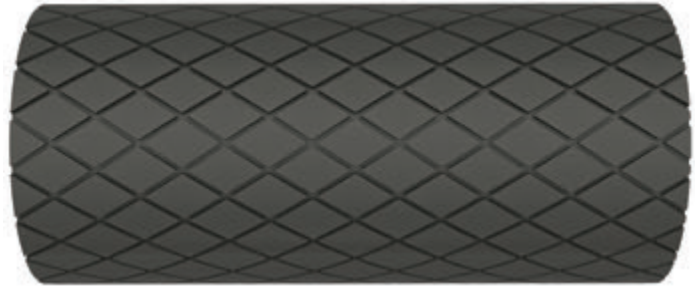
Weld-On Strip Lagging

Weld-On Strip Lagging is available from *Martin's* stock and is easily installed on Drum Pulleys either in our facilities or in the field. We stock 72" long strips with retainers in diameters from 10" to 48". Not only do we have standard 60 durometer SBR available, but we can provide special compounds like; 40 durometer rubber, EPDM and SOF (Static Conductive Oil and Fire resistant).

Cold Bond

Cold Bond Lagging is another product available from *Martin*. We stock full rolls of pre-cured rubber suitable for installation directly to the face of the Pulley. Our Cold Bond rubber is available in plain or diamond grooved pattern. This product is typically used when Pulleys on the conveyor must be re-lagged while still in operation, and can reduce the change-out time required to install a complete new assembly.

Simply tell us the diameter and face width of the Pulley on which you would like to install our Cold Bond Lagging, and we will generate a quote for a "Cold Bond Kit" which will include all necessary materials required to lag the subject Pulley.



Molded Urethane

Molded Urethane Lagging is yet another product offered by *Martin* which will protect Pulleys from extreme abrasion. Our urethane lagging is actually poured in a liquid state into a fabricated form, which encases the Pulley. Once the urethane is cured and hardened, we machine the outside diameter to a concentric OD. We can additionally alter the urethane lagging to either a herringbone or diamond grooved pattern.

SOF (Static Conductive/Oil Resistant/Flame Resistant)

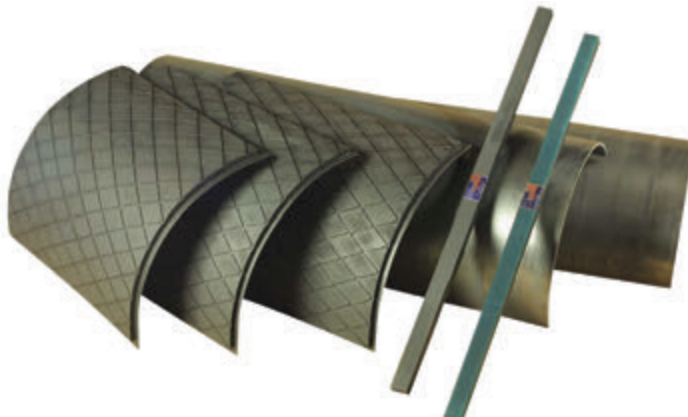
SOF (Static Conductive/Oil Resistant/Flame Resistant): Static Conductive, Oil Resistant, and Flame Resistant properties are combined to reduce the risk of explosion, and fire or oil related lagging failures. The static reducing qualities allow the accumulation of static to dissipate through the lagging to ground (in a grounded system). Oil resistance is appropriate for moderately oily conditions involving hydrocarbons, fats, oils, greases, hydraulic fluids, solvents and other moderate chemicals. The self extinguishing characteristics of SOF make it ideal for use in grain and fertilizer applications.



Shell Lagging

Shell Lagging is one product offered by *Martin* that allows our customers to Relag Drum Pulleys while they are still on the conveyor. Our field installable shell lagging kits are available in 3 piece, 4 piece and 5 piece construction depending upon the diameter of the core Pulley to which the shells will be applied. Each shell is available in either flat construction or crowned construction.

Pulley Diameter	# Shells
12	3
14	3
16	4
18	4
20	4
24	4
30	4
36	5

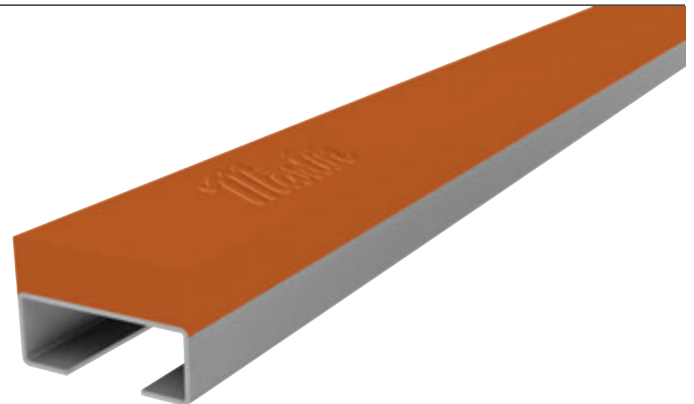


Wear Rims

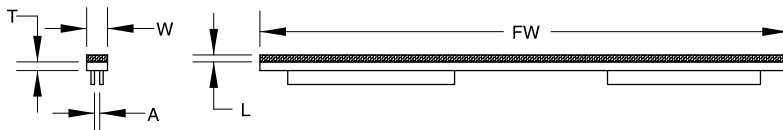
The *Martin* Steel Wear Rims are an additional item offered by *Martin* that allows the Pulley to be patched while it is on the conveyor. Each rim is available in a 2 piece shell in .25", .313", .375" or .5" thick material. Stainless steel is also available.

Wing Lagging

Martin Wing Lagging is designed to slide over the *Martin* Wing Pulley contact bars and is available in sizes suitable for all duties of our Wing Pulleys. Wing lagging is an excellent method of extending life on Wing Pulleys contact bars where belt abrasion typically causes premature wear. The *Martin* Wing Lagging product is easily installed either in the shop or in the field and can be supplied in either 72" long strips for your inventory, or in cut to length sizes for immediate installation.



Lagged Replacement Contact Bars



Must be approved by customer:

FW _____ W _____
 T _____ A _____
 L _____

The *Martin* Replacement contact bars are intended for use on all manufacturer's Wing Pulleys and are field installable as well as shop installable. This product features vulcanized lagging on flatbars which have 1/4" x 1" clips on the bottom side designed to slide over the vertical Wing flights on Wing Pulleys that have worn contact bars. It is imperative that the specific Wing flight thickness be specified at the time of order so that our fabrication team can space the clips properly to slip over the existing wings.

Frequently Asked Questions

Once Again, *Martin* has the answer when it comes to offering a solution to field replacements on Conveyor Pulleys, Steel Wear Rims, Shell Lagging, Wing Lagging and Lagged Replacement Bars. There are many applications that require a simple fix in the field while the Pulley is still on the conveyor structure. The *Martin* Wear Item line up addresses these types of situations. We offer replacement parts for both Drum Pulleys and Wing Pulleys; each intended for installation on an existing Pulley in the field.

Some common questions to address regarding the *Martin* Wear Parts are:

Q: When does it make sense to install the *Martin* Shell Lagging on a Drum Pulley?

A: If the conveyor belt has worn through the rubber lagging on a Pulley but not had time to wear into the Drum Pulley shell, the *Martin* Shell Lagging may be a good solution.

Q: Can I install the *Martin* Shell Lagging on new Pulleys?

A: Absolutely! However it is not recommended that the shell lagging be used in Drive Pulley applications where tensions are high. The *Martin* Shell Lagging is primarily intended for field installation as a means of avoiding down time.

Q: Does the *Martin* Wing Lagging fit on all manufacturers' Wing Pulleys?

A: No, the *Martin* Wing Lagging product is intended for application on flatbar of dimensions equal to what is supplied on the *Martin* Wing Pulley.

Q: Does the *Martin* Wing Lagging Require any tools to install?

A: Yes, but very few (Dead-Blow Hammer and a Welder). Each Wing lagging strip is installed by gently pounding it over the existing contact bar on each individual Wing. Once the Wing has been rotated on the conveyor to a point where the inside wings are exposed; then the cut-to-length strips are positioned and pounded on with a *Martin* dead-blow hammer. The product will essentially "self-seat" itself when it hits the crown of the Pulley, but should be driven on the balance of the distance across the face of the Pulley. Once the Lagged Wing is properly positioned, a stitch weld should be placed along the bottom side of the bar, while watching for delamination of lagging from too much heat.

Q: Do the *Martin* Lagged Replacement Contact Bars fit all manufacturers' Wing Pulleys?

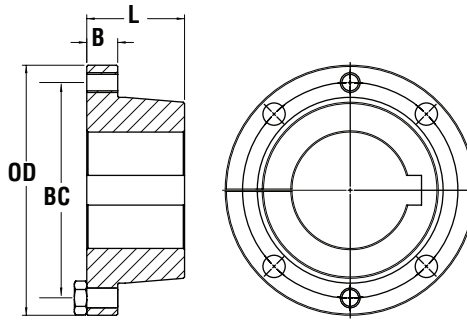
A: Yes they do. However, it is imperative that the Wing flight thickness be submitted to our factory prior to manufacturing the replacement bars. Most Pulley manufacturers utilize different thickness materials on their Wing flights and in order to ensure a tight fit of our bar onto the Wing, we must know that dimension. Please ask one of our *Martin* factory representatives for a Lagged Replaceable Contact Bar sheet.

Q: Do the *Martin* Steel Wear Rims fit on all manufacturers Pulleys?

A: Yes, however we need to know the outside diameter and face width of the Drum Pulley on which it will be installed. We typically manufacture the Steel Wear Rims in 2 halves which need to be clamped to the core Pulley. Each half-shell is trimmed ¼" short of the core face so that there is room to run a weld to fasten the Wear Rim to the Pulley. It is also important that the core is clean and free of debris prior to installation for maximum operating performance.

** MANUFACTURERS NOTE **

Martin Wear Rims, Shell Lagging, Wing Lagging and Replacement Lagged Contact bars are intended for wear and tractive properties only, and NOT intended for structural enhancement of the underlying Conveyor Pulley.



QD Short Bushings and Taper Bushings also Available. Please See The Big Catalog, Section B For More Information.

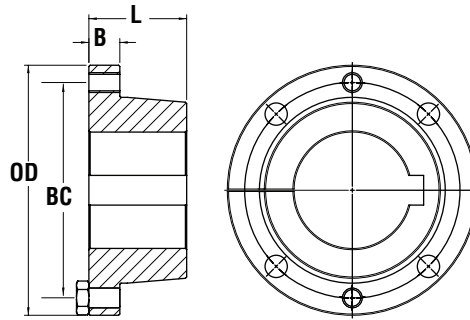
Martin's MXT® and MXT-STL® Bushings are available from stock to fit all popular Pulley sizes. Martin stocks both MXT® and MXT-STL® Bushings in a wide range of bore sizes per hub. Both the MXT® and MXT-STL® Bushing offers a 2" per foot taper, which reduces end disc pre-stressing, as well as increasing clamping force.

All Bushings size 50 and larger feature full depth keys.

MXT®/ MXT-STL® Bushing Dimensions

Part Number		Max Bore	Dimensions				Cap Screws		Approx. Weight (lb)	Standard Stock Bores		Wrench Torque (Ft/lb)
Cast or Ductile	Steel		Length Thru Bore (L)	Flange Width (B)	Flange O.D. (OD)	Bolt Circle (BC)	No.	Size		Stock Bore	Keyway	
MXT15	MXT-STL15	1.5	1.125	.375	2.875	2.438	4	.25 x 1	0.7	.625, .75, .875 1, 1.125, 1.188, 1.25 1.438, 1.5	.188 x .094 .25 x .125 .375 x .125*	8
MXT20	MXT-STL20	2	1.406	.469	3.75	3.188	4	.313 x 1.25	1.5	.75 1, 1.188, 1.25 1.438, 1.5, 1.688 1.938, 2	.188 x .094 .25 x .125 .375 x .188 .5 x .188*	17
MXT25	MXT-STL25	2.5	1.875	.625	4.438	3.75	4	.375 x 1.75	2.6	1, 1.188, 1.25 1.438, 1.5, 1.688 1.938, 2, 2.188 2.438	.25 x .125 .375 x .188 .5 x .25 .625 x .125*	29
MXT30	MXT-STL30	3	2.063	.688	5.313	4.562	4	.438 x 1.5	4.2	1.438, 1.5 1.938, 2.188 2.438, 2.5, 2.688 2.938	.375 x .188 .5 x .25 .625 x .313 .75 x .188*	46
MXT35	MXT-STL35	3.5	2.469	.758	6.313	5.438	4	.5 x 1.75	7.4	1.938, 2.188 2.438, 2.5, 2.688 2.938 3, 3.438	.5 x .25 .625 x .313 .75 x .375 .875 x .313*	70
MXT40	MXT-STL40	4	2.813	.875	7.125	6.125	4	.562 x 2	10.5	2.188 2.438 2.938 3.438, 3.5 3.938	.5 x .25 .625 x .313 .75 x .375 .875 x .438 1 x .375*	100
MXT45	MXT-STL45	4.5	3.313	.938	8	6.875	4	.625 x 2.25	14.8	2.938 3.438 3.938 4.438 4.438	.75 x .375 .875 x .438 1 x .5 1 x .375*	140
MXT50	MXT-STL50	5	3.75	1	10.125	8.313	4	.75 x 2.5	27.8	3.438 3.938, 4.438 4.938, 5	.875 x .438 1 x .5 1.25 x .625	250
MXT60	MXT-STL60	6	4.125	1.125	11.938	9.875	4	.875 x 2.5	42.8	4.938, 5.438, 5.5 5.938, 6	1.25 x .625 1.5 x .75	400
MXT70	MXT-STL70	7	4.688	1.313	13.938	11.562	4	1 x 3	66.3	6.25, 6.438, 6.5 6.938, 7	1.5 x .75 1.75 x .75	600
MXT80	MXT-STL80	8	5.125	1.375	15.625	12.875	4	1.125 x 3.5	85.7	7.25, 7.438, 7.5 7.938, 8	1.75 x .75 2 x .75	750
MXT100	MXT-STL100	10	6.188	1.562	17.938	15.562	6	1.125 x 3.5	146.0	8, 8.5, 9 9.438, 9.5, 10	2 x .75 2.5 x .875	750
MXT120	MXT-STL120	12	7.063	1.75	20.625	18.188	8	1.125 x 3.5	216.0	10.5, 11 11.5, 12	2.5 x .875 3 x 1	750

Conveyor Bushings

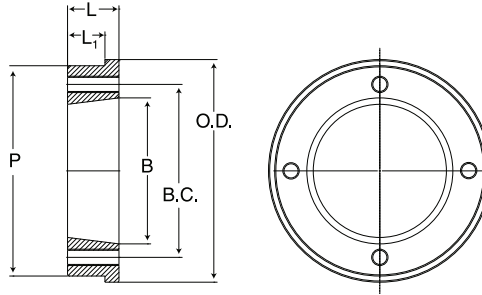


**QD Short Bushings
and Taper Bushings
also Available.
Please See
The Big Catalog,
Section B
For More Information.**

Martin's M-HE® Bushings are available from stock to fit all popular Pulley sizes. *Martin* stocks M-HE® Bushings in a wide range of bore sizes per hub. The M-HE Bushing offers a 3" per foot taper, which reduces end disc pre-stressing.

M-HE® Bushing Dimensions

Part Number	Max Bore	Dimensions				Cap Screws		Approx. Weight (lb)	Standard Stock Bores		Wrench Torque (Ft/lb)
		Length Thru Bore (L)	Flange Width (B)	Flange O.D. (OD)	Bolt Circle (BC)	No.	Size		Stock Bore	Keyway	
M-HE25	2.5	2.25	0.75	4.625	3.938	4	.375-16 × 1.5	3	1, 1.125, 1.188, 1.25 1.313, 1.375 1.438, 1.5, 1.688, 1.75 1.813, 1.875, 1.938, 2, 2.125, 2.188, 2.25 2.313, 2.375, 2.438, 2.5	.25 × .125 .313 × .156 .375 × .188 .5 × .25 .625 × .188	30
M-HE30	3	2.75	0.875	5.625	4.688	4	.5-13 × 1.75	6	1.375 1.438, 1.5, 1.688, 1.75 1.938, 2, 2.188 2.438, 2.5, 2.563, 2.688, 2.75 2.813, 2.875, 2.938, 3	.313 × .156 .375 × .188 .5 × .25 .625 × .313 .75 × .125	60
M-HE35	3.5	3	0.875	6.625	5.563	4	.563-12 × 2.5	8	1.188 1.438, 1.5, 1.688, 1.75 1.938, 2, 2.188, 2.25 2.375, 2.438, 2.5, 2.688, 2.75 2.875, 2.938, 3, 3.188 3.375, 3.438, 3.5	.25 × .5 .375 × .188 .5 × .25 .625 × .313 .75 × .375 .875 × .188	90
M-HE40	4	3.5	1	7.5	6.313	4	.625-11 × 2.5	13	1.938, 2.188 2.438, 2.5, 2.688 2.938, 3.188 3.438, 3.688 3.875, 3.938, 4	.5 × .25 .625 × .313 .75 × .375 .875 × .438 1 × .25	140
M-HE45	4.5	4	1.25	8.75	7.313	6	.625-11 × 2.5	22	1.938 2.438 2.938 3.438, 3.5 3.938 4.188, 4.438, 4.5	.5 × .25 .625 × .313 .75 × .375 .875 × .438 1 × .5 1 × .25	140
M-HE50	5	4.5	1.5	9.625	8	6	.75-10 × 3	40	2.938 3.438 3.938, 4.438 4.938, 5	.75 × .375 .875 × .438 1 × .5 1.25 × .25	200
M-HE60	6	5.25	1.75	11.125	9.25	6	.875-9 × 3.5	50	3.938, 4.25, 4.438 4.938, 5.438, 5.5 5.938, 6	1 × .5 1.25 × .625 1.5 × .25	350
M-HE70	7	4.45	2	12.75	10.5	6	1-8 × .25	74	4.438 4.938, 5.438 5.438, 6, 6.438, 6.5 6.938, 7	1 × .5 1.25 × .625 1.5 × .75 1.75 × .25	350
M-HE80	8	5.2	2.25	14.5	12.125	6	1.125-7 × 4.5	114	5.938, 6.438 6.75, 6.938, 7, 7.188, 7.5, 7.438 7.75, 7.938, 8	1.5 × .75 1.75 × .75 2 × .75	350



**QD and Taper Hubs
also Available.
Please See
The Big Catalog,
Section B
For More Information.**

Martin's weld-on hubs are specifically designed for use on Conveyor Pulleys. Hubs are available from stock to fit all popular Pulley sizes. Martin's weld-on hubs are available in MXT® and M-HE® styles.

MXTH® Weld-On Hubs

Part Number	Dimensions (Inches)						Tapped Holes		Approx. Weight (lb)
	OD	LTB (L)	Step OD (P)	Step LTB (L ₁)	Taper Fit (B)	B.C.	No.	Size	
MXTH-15	3.250	0.625	2.875	0.375	2.000	2.438	4	.25 - 20	0.7
MXTH-20	4.188	0.812	3.813	0.562	2.688	3.188	4	.313 - 18	1.5
MXTH-25	4.690	1.125	4.500	0.812	3.188	3.750	4	.375 - 16	2.7
MXTH-30	6.950	1.250	6.625	0.750	3.875	4.562	4	.438 - 14	8.5
MXTH-35	6.950	1.500	6.625	1.000	4.688	5.438	4	.5 - 13	7.9
MXTH-40	8.420	1.750	8.000	1.250	5.313	6.125	4	.563 - 12	14.5
MXTH-45	8.410	2.125	8.000	1.500	5.938	6.875	4	.625 - 11	15.0
MXTH-50	9.910	2.500	9.500	1.780	7.250	8.312	4	.75 - 10	22.9
MXTH-60	11.900	2.750	11.250	2.000	8.625	9.875	4	.875 - 9	35.4
MXTH-70	13.628	3.125	13.188	2.188	10.000	11.562	4	1 - 8	55.4
MXTH-80	15.250	3.625	14.750	2.625	11.125	12.875	4	1.125 - 7	81.4
MXTH-100	18.000	4.125	17.500	3.000	13.688	15.562	6	1.125 - 7	117.0
MXTH-120	20.940	4.813	20.500	3.500	16.188	18.1875	8	1.125 - 7	183.8

M-HEH® Weld-On Hubs

Part Number	Dimensions (Inches)						Tapped Holes		Approx. Weight (lb)
	OD	LTB (L)	Step OD (P)	Step LTB (L ₁)	Taper Fit (B)	B.C.	No.	Size	
M-HEH-25	4.700	1.140	4.499	0.822	3.312	3.938	4	.375 - 16	4.1
M-HEH-30	6.950	1.265	6.624	0.885	3.907	4.688	4	.5 - 13	8.4
M-HEH-35	6.910	1.515	6.627	1.010	4.717	5.563	4	.563 - 12	7.9
M-HEH-40	8.420	1.765	8.002	1.260	5.445	6.313	4	.625 - 11	14.6
M-HEH-45	9.000	2.140	7.999	1.510	6.124	7.313	6	.625 - 11	19.0
M-HEH-50	10.000	2.515	9.499	1.790	6.685	8.000	6	.75 - 10	27.7
M-HEH-60	11.906	2.765	11.249	2.010	7.808	9.250	6	.875 - 9	43.7
M-HEH-70	13.642	3.140	13.187	2.198	9.994	11.563	6	1 - 8	60.0
M-HEH-80	15.265	3.640	14.749	2.635	11.119	12.875	6	1.125 - 7	76.0

MXT® Bushing Installation and Removal Instructions



BEFORE INSTALLATION:

1. Make sure that the Shaft, barrel, bore, key and keyways of the Bushing and hub are clean and free of burrs, paint, etc.
2. For proper operation, make sure that the Shaft size is within the tolerance limits shown in Table A.

⚠ CAUTION Mounting an MXT® Bushing on a Shaft deviating from its nominal size by more than the limits shown in Table A may result in a faulty assembly. The assembly may come off the Shaft or undesirable assembly runout may result.

MOUNTING:

3. It may be necessary to wedge the saw slot open slightly on some Bushings in order to start and/or position the Bushing on the Shaft. A narrow edged regular screw driver may be used.

⚠ CAUTION Excessive wedging forces in Bushing saw slot may damage or break Bushing. AVOID.

4. Align the Shaft keyseat with the Bushing bore keyway and install the key. Make sure the key runs the entire length of the Bushing bore.

⚠ CAUTION To assure proper transmission of torque, all Bushings used in Drive Pulleys must be keyed to the Shaft.

5. Align the non-threaded holes (A) in the Bushing flanges with the threaded holes in the hubs (B). Insert the cap screws and thread them by hand three or four turns. See Drawing 1.

6. Position the assembly axially on the Shaft such that it is aligned with the running mate(s). Be sure to check for adequate clearance between the assembly and other nearby components if applicable.

7. Using a torque wrench and appropriate socket, tighten the cap screws sequentially in order as shown by the drawings below. Tighten to the torque shown in Table B. When the cap screw torque is at or near recommended torque, make at least two more sequential rounds to assure all cap screws are at Table B values.

⚠ CAUTION Tightening the cap screws to a torque higher than shown in Table B may lead to product failure. AVOID.

8. When two Bushings are used, completely tighten the screws on one Bushing before proceeding to tighten the other one.

9. Since tightening the cap screws may affect the axial position of the product, confirm that it is still properly aligned with its running mate. If not, determine how much the assembly must be moved to be in proper alignment.

10. If axial adjustment is required, follow REMOVAL procedure, reposition the assembly, and repeat steps 7 and 8.

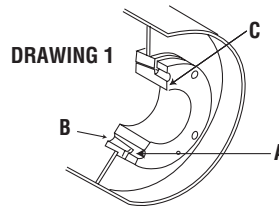
11. Check installation gap. There must be a gap between the Bushing flange and the hub face, if there is no gap between them, disassemble the parts, follow REMOVAL procedure, and determine the reason(s) for the faulty assembly.

MAINTENANCE:

During the first 30 days of operation, Bushings and capscrews should be inspected for proper seating at least once a week and during scheduled maintenance.

REMOVAL:

1. Remove all screws sequentially as shown on Drawing 2, 3, 4 and 5 using the Roman numeral sequence.
2. Insert cap screws in all threaded Bushing flange holes (C). Tighten the cap screws against hub face of the product until the screw force releases the product from the Bushing. If the Bushing does not release immediately, tap on the hub with a hammer.
3. When two Bushings are used, completely loosen the screws on one Bushing before proceeding to loosen the other one.
4. Remove the Bushing(s) and product from the Shaft using appropriate means.



	⚠ WARNING Disconnect power before installation and maintenance. Failure to do so can result in severe injury or death
	⚠ WARNING To avoid damage, supporting structure including shafts and bearings must be designed to handle transmitted loads and belt tension(s).
	⚠ WARNING Lubricant on bushing barrel, hub or screws could lead to breakage.
	⚠ WARNING Operating drives without guards in place can result in severe injury or death

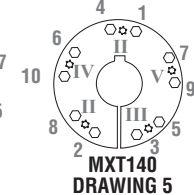
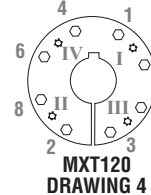
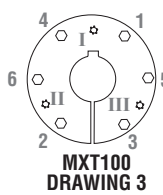
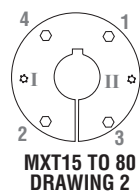


TABLE A: Recommended Wrench Torque

Shaft Size Range (in)		Lower Shaft Size Limit (in)
Above	Through	
-	1 1/2	-0.003
1 1/2	2 1/2	-0.004
2 1/2	4	-0.005
4	6	-0.006
6	8	-0.007
8	9	-0.008
9	-	-0.009

Note: Upper Limit is +0.

TABLE B: Recommended Wrench Torque

MXT® Size	SAE Grade 8 Cap Screw		Cap Screw Torque		
	No.	Size	(lb-in)	(ft-lb)	(N-m)
15	4	1/4 - 20UNC	95	8	10.7
20	4	5/16 - 18UNC	192	16	21.7
25	4	3/8 - 16UNC	348	29	39.3
30	4	7/16 - 14UNC	552	46	62.4
35	4	1/2 - 13UNC	840	70	94.9
40	4	9/16 - 12UNC	1200	100	135.6
45	4	5/8 - 11UNC	1680	140	189.8
50	4	3/4 - 10UNC	3000	250	339.0
60	4	7/8 - 9UNC	4800	400	542.3
70	4	1 - 8UNC	7200	600	813.5
80	4	1 1/8 - 7UNC	9000	750	1016.9
100	6	1 1/8 - 7UNC	9000	750	1016.9
120	8	1 1/8 - 7UNC	9000	750	1016.9
140	10	1 1/8 - 7UNC	9000	750	1016.9



Martin offers a wide variety of solutions for your Shafting needs. We offer a number of materials from cold finish 1/2" diameter to hot roll material in excess of 15" diameter. Stock Shafting material is available in several grades including 1144, 1045, 4140 and stainless steel. Our machining capabilities are virtually unlimited featuring CNC lathes, as well as engine lathes, vertical milling machines, horizontal milling machines and more to modify every Shaft exactly to your specifications for your unique application.

Diameters shown in table are standard sizes recommended for general use. Standard Bushings, Bearings, Couplings, Pulleys, Sheaves, Clutches, Backstops, and other Conveyor items are commonly found in these diameters.

Shaft Keyseats

Shaft keyseats are commonly used beneath Pulley Bushings and with a drive. Pulley keyseats for standard Pulleys start .5" inside the face and are keyed through the Bushing. Location of drive keyseats are standard and the size is determined by the Shaft diameter. Additional keyseats or non-standard sizes can be manufactured per request.

Shaft Turn Downs (Stepped Shafts)

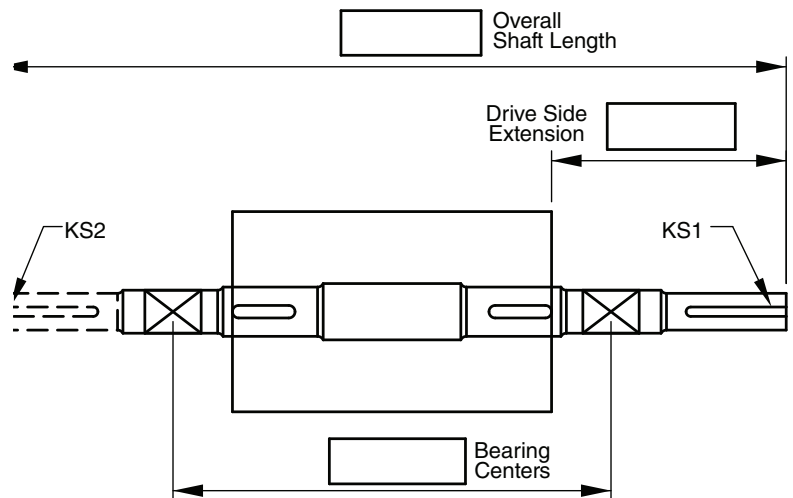
For larger Shafting it is common to turn the Shaft down for a more economical selection of bearings and drives. The turndown is generally less than 25% of the original diameter and the two different diameters should be joined with a generous and smooth fillet to reduce stress concentrations.

Conveyor Shafting should be selected to keep deflection to a minimum and maintain the integrity of the Pulley assembly core. Call your *Martin* representative to properly select the Shaft for your Pulley and Conveying needs.

Standard Shaft Diameters
.938
1.188
1.438
1.688
1.938
2.188
2.438
2.688
2.938
3.438
3.938
4.438
4.938
5.438
5.938
6.5
7
7.5

* Tolerances for Shafting diameters are as follows:		
	Plus	Minus
Up to 1.5"	0.000	0.002
Over 1.5" to 2.5"	0.000	0.003
Over 2.5" to 4"	0.000	0.004
Over 4" to 6"	0.000	0.005
Over 6" to 8"	0.000	0.006
Over 8" to 9"	0.000	0.007
Over 9"	0.000	0.008

* Special tolerances available upon request.



_____ Major Shaft Diameter Keyseat 1 _____ x _____ x _____
 _____ Shaft Diameter at Hub Keyseat 2 _____ x _____ x _____
 _____ Shaft Diameter at Bearing Direction of Rotation From Drive End _____
 _____ Shaft Diameter at KS1 Thickness _____
 _____ Shaft Diameter at KS2 Lagging Type _____

Take-Up Frames



A properly designed belt conveyor will require the use of a take-up device. This device will take up the stretch in the conveyor belt and keep proper tension at the Drive Pulley to reduce slippage. A dynamic type, like a gravity take-up, is generally preferred but not always practical due to space or cost. *Martin* Screw Take-Up Frames are a good solution for these applications. *Martin* offers several types of frames that accommodate most bearings, mounting positions, and travel. *Martin* Take-Up Frames are available in stock or made-to-order for all of your mechanical take-up needs.

Martin's Take-Up Frames are fabricated from steel, offering superior strength and durability in the most rugged conditions.

- Available in Top Angle, Heavy-Duty, Center Pull, Wide Slot, Tube Take-Up & Light Duty
- Accommodate bearing Shafts sizes from 1" to 5.938"
- Available in standard travel lengths from 9" to 60"
- Stainless Steel, ACME thread & MTO lengths available
- Suitable for most manufacturers' housing styles including center pull wide slot, pillow block and top angle protected screw

CROSS REFERENCE

Top Angle Take-Up Frames (MTA)*

<i>Martin</i>	Dodge	Precision
MTA10	TP10	PTA200
MTA20	TP20	PTA203
MTA30	TP30	PTA208
MTA40	TP40	PTA300
MTA50	TP50	PTA308
MTA60	TP60	PTA400

* For bearing compatibility see page M-113.

Center Pull Take-Up Frames (MCP)*

<i>Martin</i>	Dodge	Precision	Rexnord	Browning
MCP308	CP308	PCP108	ZHT6	T1000D
MCP400	CP400	PCP200	ZHT7	T1000EL
MCP408	CP408	PCP203	ZHT7	T1000EH
MCP502	CP502	PCP208	ZHT8	T1000F
MCP515	CP515	PCP300	ZHT9	T1000GL, GH
MCP613	CP613	PCP308	ZHT10	T1000JL, JH
MCP810	CP810	PCP400	ZHT11	T1000K

* For bearing compatibility see page M-113.

Light Duty Take-Up Frames (MLD)*

<i>Martin</i>	Dodge	Precision
MLD10	LD10	PMD-100
MLD20	LD20	PMD-108
MLD30	LD30	PMD-200
MLD40	LD40	PMD-208
MLD45	LD45	PMD-300
MLD50	LD50	PMD-308

* For bearing compatibility see page M-113.

Wide Slot Take-Up Frames (MWS)*

<i>Martin</i>	Dodge	Precision
MWS300	WS300	PWS100
MWS308	WS308	PWS108
MWS400	WS400	PWS200
MWS502	WS502	PWS208
MWS515	WS515	PWS300
MWS608	WS608	PWS308

* For bearing compatibility see page M-113.

Heavy-Duty Take-Up Frames (MHD)*

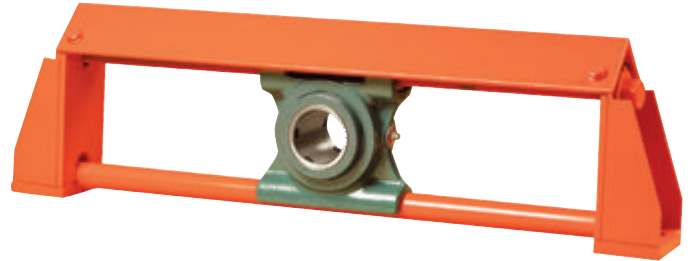
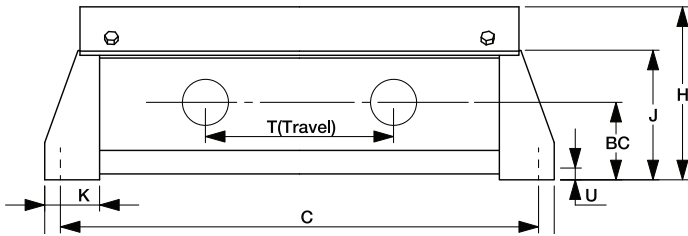
<i>Martin</i>	Dodge	Precision	Linkbelt	Browning	SKF
MHD200	HD200	PHD200	LHD20	T2000 A/B/C	TFT01
MHD250	HD250	PHD250	LHD25	T2000 D/E	TFT03, TFT43
MHD300	HD300	PHD300	LHD30	T2000 F/G	TFT04/5, TFT34/44
MHD350	HD350	PHD350	LHD35	T2000 H/J	TFT06, TFT46
MHD400	HD400	PHD400	LHD40	T2000 K	TFT37
MHD500	HD500	PHD500	LHD50	T2000 M/N	TFT38, TFT48

* For bearing compatibility see page M-113.

Tube Take-Up Frames (MTTU)*

<i>Martin</i>	Precision	Bryant	Linkbelt
MTTU10	PST100	100	100
MTTU25	PST250	250	250
MTTU30	PST300	300	300
MTTU35	PST350	350	-
MTTU40	PST400	400	400
MTTU50	PST500	500	-

* For bearing compatibility see page M-113.

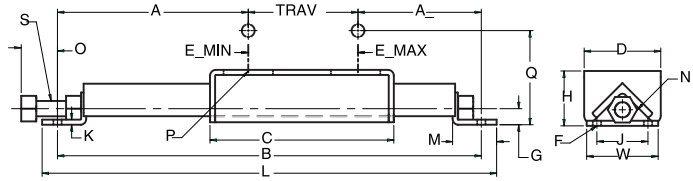


Top Angle Take-Up Frames (MTA)

Frame Size	Nominal Travel (T)	Part Number	Approx. Weight (lb)	BC	C	H	J	K	L	U	2b	W
MTA10	12	MTA10-12	32	3.938	26.5	8.5	6.281	3	28.5	.75	-	3.5
	18	MTA10-18	36		32.5				34.5			
	24	MTA10-24	40		38.5				40.5			
MTA20	12	MTA20-12	34	4.188	27.5	9.125	6.75	3	29.5	.75	-	3.5
	18	MTA20-18	39		33.5				35.5			
	24	MTA20-24	43		39.5				41.5			
MTA30	12	MTA30-12	50	4.375	28.5	10.125	7.25	3.5	30.5	.75	-	4
	18	MTA30-18	58		34.5				36.5			
	24	MTA30-24	66		40.5				42.5			
	30	MTA30-30	74		46.5				48.5			
	36	MTA30-36	82		52.5				54.5			
MTA40	12	MTA40-12	56	4.938	30.5	11.063	8.094	3.5	32.5	.75	2	4.5
	18	MTA40-18	63		36.5				38.5			
	24	MTA40-24	70		42.5				44.5			
	30	MTA40-30	77		48.5				50.5			
	36	MTA40-36	84		54.5				56.5			
MTA50	12	MTA50-12	68	5.438	32	12.5	9.25	4	34.5	.75	2	4.5
	18	MTA50-18	76		38				40.5			
	24	MTA50-24	84		44				46.5			
	30	MTA50-30	92		50				52.5			
	36	MTA50-36	100		56				58.5			
MTA60	12	MTA60-12	96	7	36	14.25	11.094	4.5	38.5	.75	2.5	5.5
	18	MTA60-18	106		42				44.5			
	24	MTA60-24	116		48				50.5			
	30	MTA60-30	126		54				56.5			
	36	MTA60-36	136		60				62.5			
	48	MTA60-48	156		72				74.5			

For bearing compatibility see page M-113.

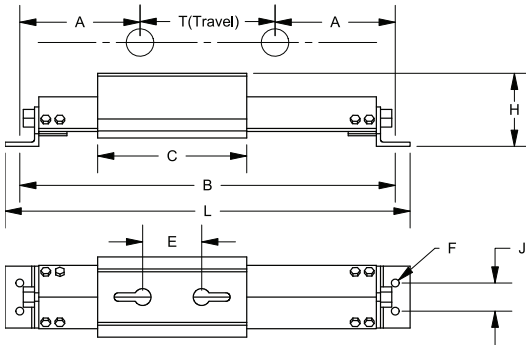
Light Duty Take-Up Frames



Light Duty Take-Up Frames (MLD)

Frame Size	Nominal Travel	Part Number	Approx. Weight (lb)	A	B	C	D	E		F	G	H	J	K	L	M	N	O	P	S	W	Angle Iron
								Min.	Max.													
MLD10	6	MLD10-6	10	4.875	18	6.625	3.5	2.875	4.375	.375	1.063	2.75	2.5	.25	19.5	2.125	1.125	1.625	.375 x 1.5	.75	3.5	2 x 2 x .25
	9	MLD10-9	11		20.5										22							
	12	MLD10-12	12		23.5										25							
	18	MLD10-18	15		29.5										31							
	30	MLD10-30	19		41.5										43							
	36	MLD10-36	22		47.5										49							
	42	MLD10-42	24		53.5										55							
	48	MLD10-48	26		59.5										61							
MLD20	6	MLD20-6	10	5.75	18	8.25	3.75	4.438	6.25	.5	.813	2.564	2.5	.25	19.5	2.125	1.125	1.625	.5 x 2.5	.75	3.5	2 x 2 x .25
	9	MLD20-9	11		20.5										22							
	12	MLD20-12	13		23.5										25							
	18	MLD20-18	16		32										33.5							
	24	MLD20-24	18		38										39.5							
	30	MLD20-30	20		44										45.5							
	36	MLD20-36	24		50										51.5							
	42	MLD20-42	25		56										57.5							
48	MLD20-48	27	62	63.5																		
MLD30	12	MLD30-12	17	6.25	26.75	9	4	5.75	7	.5	.813	2.688	2.5	.25	28.25	2.25	1.125	1.625	.625 x 2.5	.75	3.5	2 x 2 x .25
	18	MLD30-18	19		32.75										34.25							
	24	MLD30-24	22		38.75										40.25							
	30	MLD30-30	24		44.75										46.25							
	36	MLD30-36	26		50.75										52.25							
	42	MLD30-42	29		56.75										58.25							
48	MLD30-48	31	62.75	64.25																		
MLD40	12	MLD40-12	22	6.25	26.5	9.875	4.75	6.375	7.875	.625	1.125	3.188	3	.313	28.25	2.25	1.125	1.75	.625 x 3	.75	4.75	2.5 x 2.5 x .25
	18	MLD40-18	25		32.5										34.25							
	24	MLD40-24	28		38.5										40.25							
	30	MLD40-30	31		44.5										46.25							
	36	MLD40-36	34		50.5										52.25							
	42	MLD40-42	36		56.5										58.25							
48	MLD40-48	39	62.5	64.25																		
MLD45	12	MLD45-12	64	9.75	31.25	16.75	5.5	6	11.25	.75	1.375	4.125	3	.5	33.375	2.5	1.5	2.25	.75 x 3.5	1	5.875	3 x 3 x .5
	18	MLD45-18	70		37.5										39.625							
	24	MLD45-24	76		43.5										45.625							
	30	MLD45-30	82		49.5										51.625							
	36	MLD45-36	87		55.5										57.625							
	42	MLD45-42	93		61.5										63.625							
48	MLD45-48	99	67.5	69.625																		
MLD50	6	MLD50-6	58	9.75	25.25	16.75	5.5	6	11.125	.75	1.375	4.125	3	.5	27.375	2.5	1.5	2.25	.75 x 3.5	1	5.875	3 x 3 x .5
	12	MLD50-12	64		31.25										33.375							
	18	MLD50-18	70		37.5										39.625							
	24	MLD50-24	76		43.5										45.625							
	30	MLD50-30	81		49.5										51.625							
	36	MLD50-36	87		55.5										57.625							
	42	MLD50-42	93		61.5										63.625							
	48	MLD50-48	99		67.5										69.625							

For bearing compatibility see page M-113.



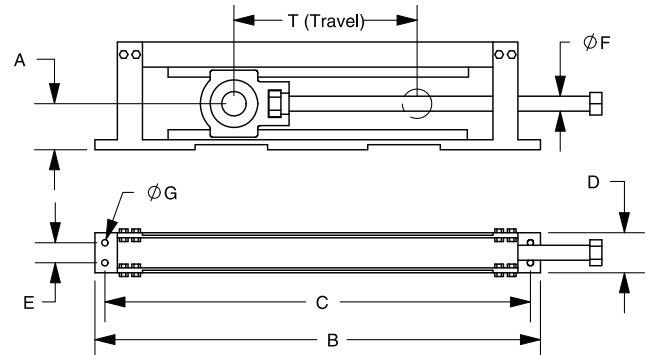
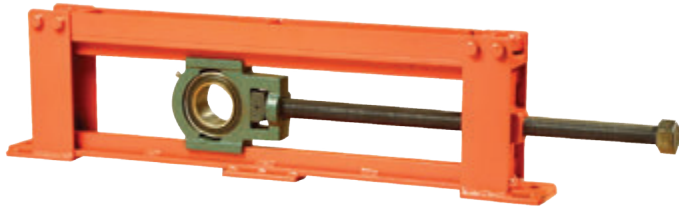
Heavy-Duty Take-Up Frames (MHD)

Frame Size	Nominal Travel	Part Number	Approx. Weight (lb)	A	B	C	D	E	F	H	J	K	L	W
MHD200	12	MHD200-12	50	8.5	29	11	4	Drilled To Order	.625	5.25	2.5	6.125	31	5
	18	MHD200-18	53		35								37	
	24	MHD200-24	56		41								43	
	30	MHD200-30	60		47								49	
	36	MHD200-36	64		53								55	
MHD250	12	MHD250-12	84	10.375	32.75	13.25	5	Drilled To Order	.625	6.25	3	7.125	35.25	5.5
	18	MHD250-18	89		38.75								41.25	
	24	MHD250-24	95		44.75								47.25	
	30	MHD250-30	100		50.75								53.25	
	36	MHD250-36	106		56.75								59.25	
MHD300	12	MHD300-12	140	11.75	35.5	14.25	6	Drilled To Order	.75	7	3	8.75	38.25	6.5
	18	MHD300-18	147		41.5								44.25	
	24	MHD300-24	155		47.5								50.25	
	30	MHD300-30	165		53.5								56.25	
	36	MHD300-36	175		59.5								62.25	
	42	MHD300-42	186		65.5								68.25	
MHD350	12	MHD350-12	150	12.625	37.25	16	6	Drilled To Order	.75	7	3	8.75	40	6.5
	18	MHD350-18	160		43.25								46	
	24	MHD350-24	170		49.25								52	
	30	MHD350-30	180		55.25								58	
	36	MHD350-36	190		61.25								64	
	42	MHD350-42	200		67.25								70	
MHD400	12	MHD400-12	179	14.625	41.25	20	7	Drilled To Order	.75	7	3	8.75	44	6.5
	18	MHD400-18	189		47.25								50	
	24	MHD400-24	199		53.25								56	
	30	MHD400-30	209		59.25								62	
	36	MHD400-36	219		65.25								68	
	42	MHD400-42	230		71.25								74	
MHD500	12	MHD500-12	305	17.5	47	23.5	8.5	Drilled To Order	.875	7.75	4	11.25	49.5	7
	18	MHD500-18	322		53								55.5	
	24	MHD500-24	340		59								61.5	
	30	MHD500-30	355		65								67.5	
	36	MHD500-36	370		71								73.5	
	42	MHD500-42	386		77								79.5	
48	MHD500-48	401	83	85.5										

For bearing compatibility see page M-113.

MTO Frames available upon request.

Center Pull Take-Up Frames

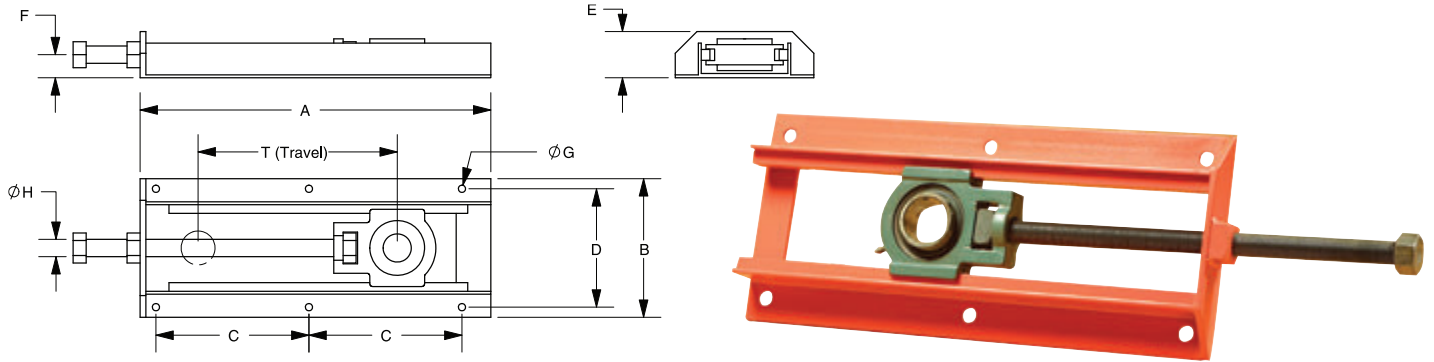


Center Pull Take-Up Frames (MCP)

Frame Size	Nominal Travel	Part Number	Approx. Weight (lb)	A	B	C	D	E	F	G	
										Qty.	Dia.
MCP308	12	MCP308-12	30	3.438	28	26	3	NA	.75	2	.5
	18	MCP308-18	36		34	32					
	24	MCP308-24	40		40	38					
	30	MCP308-30	45		46	44					
	36	MCP308-36	50		52	50					
MCP400	12	MCP400-12	57	3.938	29.5	27.5	4	NA	1	2	.625
	18	MCP400-18	66		35.5	33.5					
	24	MCP400-24	75		41.5	39.5					
	30	MCP400-30	85		47.5	45.5					
	36	MCP400-36	93		53.5	51.5					
MCP408	12	MCP408-12	62	4.438	29.5	27.5	4	NA	1.125	2	.625
	18	MCP408-18	71		35.5	33.5					
	24	MCP408-24	82		41.5	39.5					
	30	MCP408-30	91		47.5	45.5					
	36	MCP408-36	102		53.5	51.5					
MCP502	12	MCP502-12	68	4.375	30.5	28.5	4	NA	1.25	2	.75
	18	MCP502-18	79		36.5	34.5					
	24	MCP502-24	89		42.5	40.5					
	30	MCP502-30	101		48.5	46.5					
	36	MCP502-36	110		54.5	52.5					
MCP515	12	MCP515-12	112	5.125	32.5	30.5	5	2	1.5	4	.625
	18	MCP515-18	134		38.5	36.5					
	24	MCP515-24	152		44.5	42.5					
	30	MCP515-30	166		50.5	48.5					
	36	MCP515-36	186		56.5	54.5					
MCP613	12	MCP613-12	128	5.625	34.25	32	5	2	1.75	4	.75
	18	MCP613-18	146		40.25	38					
	24	MCP613-24	165		46.25	44					
	30	MCP613-30	184		52.25	50					
	36	MCP613-36	202		58.25	56					
MCP810	12	MCP810-12	200	7	38.5	36	6	2.5	2	4	.75
	18	MCP810-18	242		44.5	42					
	24	MCP810-24	252		50.5	48					
	30	MCP810-30	278		56.5	54					
	36	MCP810-36	304		62.5	60					

For bearing compatibility see page M-113.

MTO Frames available upon request.



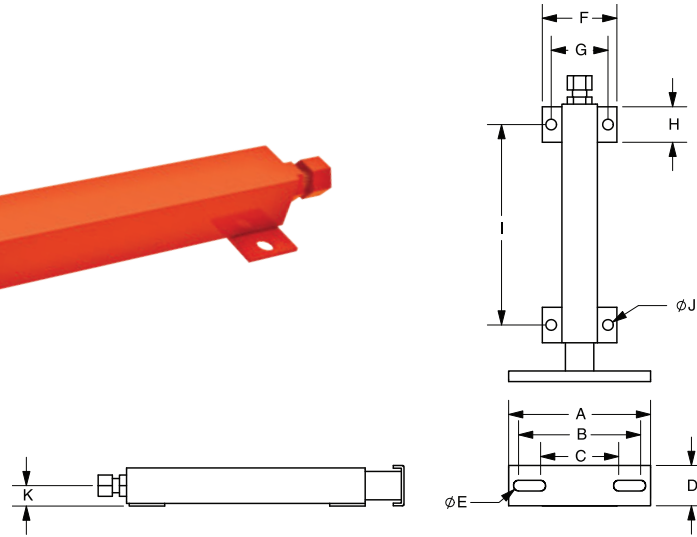
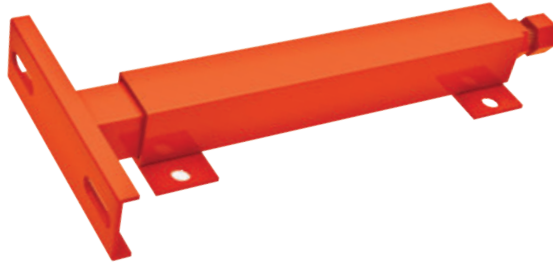
Wide Slot Take-Up Frames (MWS)

Frame Size	Nominal Travel	Part Number	Approx. Weight (lb)	A	B	C	D	E	F	G		H
										Qty.	Dia.	
MWS300	6	MWS300-6	7	12	6.563	4.938	5.563	1.75	1.063	6	.438	.625
	9	MWS300-9	8.5	15		6.438						
	12	MWS300-12	10	18		7.938						
	18	MWS300-18	13	24		10.938						
	24	MWS300-24	16	30		13.938						
MWS308	6	MWS308-6	9	12	7.063	9.438	6.063	2	1.25	4	.438	.75
	9	MWS308-9	10.5	15		6.25						
	12	MWS308-12	12	18		7.75						
	18	MWS308-18	15	24		10.75						
	24	MWS308-24	18	30		13.75						
MWS400	6	MWS400-6	14	13.75	8.813	11.5	7.313	2.25	1.438	4	.5	1
	9	MWS400-9	16.5	16.75		7.25						
	12	MWS400-12	19	19.75		8.75						
	18	MWS400-18	24	25.75		11.75						
	24	MWS400-24	29	31.75		14.75						
MWS502	6	MWS502-6	20	14.75	10.438	12.5	8.625	2.5	1.5	4	.563	1.25
	9	MWS502-9	23.5	17.75		15.5						
	12	MWS502-12	27	20.75		9.25						
	18	MWS502-18	34	26.75		12.25						
	24	MWS502-24	41	32.75		15.25						
MWS515	6	MWS515-6	31	17.875	12	14.5	10.25	3	2	4	.625	1.5
	9	MWS515-9	36	20.875		17.5						
	12	MWS515-12	41	23.875		10.25						
	18	MWS515-18	51	29.875		13.25						
	24	MWS515-24	61	35.875		16.25						
MWS608	6	MWS608-6	31	17.875	12.563	14.5	10.813	3	2	4	.625	1.5
	9	MWS608-9	36	20.875		17.5						
	12	MWS608-12	41	23.875		10.25						
	18	MWS608-18	51	29.875		13.25						
	24	MWS608-24	61	35.875		16.25						
	30	MWS608-30	71	41.875	19.25							

For bearing compatibility see page M-113.

MTO Frames available upon request.

Tube Take-Up Frames



Tube Take-Up Frames (MTTU)

Frame Size	Stroke	Part Number	A	B	C	D	E	F	G	H	L	J	K	Table Size		Threaded Rod
														Bolt	Other		Inner
MTTU10	3	MTTU10-3	5.25	4.375	3	1.5	.375	3.688	2.625	1.5	3.563	.5	.875	1.25	1	.625 — 11
	6	MTTU10-6									7.063					
	9	MTTU10-9									11.063					
	12	MTTU10-12									14.063					
MTTU25	6	MTTU25-6	7	5.688	3.875	2	.5	4	3	2	7.375	.5	1.125	1.75	1.5	.75 — 10
	9	MTTU25-9									10.375					
	12	MTTU25-12									13.375					
	18	MTTU25-18									19.375					
MTTU30	9	MTTU30-9	10	8.625	5.5	2.875	.625	5.25	4	2.5	10.125	.625	1.5	2.5	2.25	.875 — 9
	12	MTTU30-12									14.125					
	18	MTTU30-18									21.125					
	24	MTTU30-24									27.125					
MTTU35	9	MTTU35-9	10	8.625	5.5	2.875	.625	5.75	4.5	2.5	13	.625	1.75	3	2.5	.875 — 6 ACME
	12	MTTU35-12									16					
	18	MTTU35-18									22					
	24	MTTU35-24									28					
MTTU40	12	MTTU40-12	14	11.75	8.5	3.5	.875	7.5	5.5	3.5	20	.75	2.125	3.5	3	1.25 — 5 ACME
	18	MTTU40-18									26					
	24	MTTU40-24									32					
	36	MTTU40-36									44					
	48	MTTU40-48									56					
MTTU50	12	MTTU50-12	Made-to-Order Per Bearing Specification					11.5	9	5	25	1	3.5	6	5	2.25 — 4 ACME
	18	MTTU50-18									31					
	24	MTTU50-24									37					
	36	MTTU50-36									49					
	48	MTTU50-48									61					

For bearing compatibility see page M-113.

MTO Frames available upon request.

Martin Take-Up Frames Bearing Compatibility

Popular Bearing / Frame Combinations (& Other Things to Remember) REFERENCE ONLY - IS NOT DEFINITIVE NOR ALL ENCOMPASSING

Top Angle Take-Up Frames (MTA)

Martin	Common Bearings	
MTA10	LB ETP-B22431H x 1 15/16	D TP-E-115R
MTA20	LB ETP-B224345H x 2 3/16	D TP-E-203R
MTA30	LB ETP-B22439H x 2 7/16	D TP-E-207R
MTA40	LB ETP-B22447H x 2 15/16	D TP-E-215R
MTA50	LB ETP-B22455H x 3 7/16	D TP-E-307R
MTA60	LB ETP-B22463H x 3 15/16	D TP-E-315R

Center Pull Take-Up Frames (MCP)*

Martin	Common Bearings		
MCP308	ZT4-5107	WSTU-E-107R	WSTU-S2-107R
MCP400	ZT6-5115	WSTU-E-115R	WSTU-S2-115R
MCP408	ZT7-5203	WSTU-E-203R	WSTU-S2-203R
MCP502	ZT8-5207	WSTU-E-207R	WSTU-S2-207R
MCP515	ZT9-5215	WSTU-E-215R	WSTU-S2-215R
MCP613	ZT10-5307		WSTU-S2-307R
MCP810	ZT11-5315		WSTU-S2-315R

* Note: No wide slot ball bearings for this frame, roller only.

Heavy-Duty Take-Up Frames (MHD)

Martin	Common Bearings				
MHD200	ZEP-5115	ZEP-5207	SAF 1 15/16	SAF 2 3/16	
MHD250	ZEP-5215	SAF 2 7/16	SAF 2 15/16		
MHD300	SAF x 3 3/16 *				
MHD350	ZEP-5307	SAF 3 7/16			
MHD400	ZEP-5315	ZEP-5407	ZEP-5415	SAF 3 15/16	SAF 4 7/16
MHD500	SAF 4 15/16	SAF 5 7/16			

* Not a popular frame

Tube Take-Up Frames (MTTU)

Martin	Common Bearings					
MTTU10	Normal Duty Ball Bearings 1" and Under ONLY					
MTTU25	ZEP-5107	VPS-323	VPS-219 to 227			
MTTU30	ZEP-5115	ZEP-5203	ZEP-5207	ZEP-5215	VPS-331	VPS-231 to 239
MTTU35	Same Bearing Mount as MTTU30 just heavier built Frame with ACME					
MTTU40	ZEP-5307	ZEP-5315	VPS-339	VPS-247		
MTTU50	Bearing Mount Custom Per Order					

Wide Slot Take-Up Frames (MWS)*

Martin	Common Bearings	
	Normal Duty BB	Medium Duty BB
MWS300	1/2 to 1"	NA
MWS308	1 1/16 to 1 7/16	1 to 1 3/16
MWS400	1 1/2 to 1 15/16	1 7/16 to 1 11/16
MWS502	2 3/16 to 2 7/16	1 15/16 to 2 3/16
MWS515	2 15/16	2 7/16 to 2 11/16
MWS608		2 15/16

*Ball bearings only. No roller bearings. (i.e. No Type E, No S2)

Conveyor Pulley and Shaft Engineering



This information can be used for *Martin* Pulleys with rigid end plate design. That includes the Standard Duty, Mine Duty and Quarry Duty products that are designed using CEMA/ANSI standards. The foundation of that design is accomplished by designing around a maximum designated Shaft deflection. Any questions in design should be run through *Martin* Engineering.

- Calculate effective tension, T_e

$$T_e = \frac{HP \times 33,000}{FPM}$$

- Calculate belt slack side tension, T_2

$$T_2 = K \times T_e$$

Table 1: K-factor

Single Drive	Auto TU		Manual / Screw TU	
	Belt Wrap	Bare	Lagged	Bare	Lagged
180	0.84	0.5	1.2	0.8
190	0.77	0.46	1.1	0.8
200	0.72	0.42	1.1	0.7
210	0.67	0.38	1	0.7
220	0.62	0.35	0.9	0.6
230	0.58	0.33	0.9	0.6
240	0.54	0.3	0.8	0.6

- Calculate belt tight side tension, T_1

$$T_1 = T_2 + T_e$$

- Calculate resultant load for each non-Drive Pulley, R

$$R = T_2 \times \text{Wrap Factor}$$

Table 2: Non Drive Wrap Factor

Belt Wrap	Factor	Belt Wrap	Factor	Belt Wrap	Factor
10°	0.174	90°	1.414	175°	1.998
15°	0.261	95°	1.475	180°	2
20°	0.347	100°	1.532	185°	1.998
25°	0.433	105°	1.587	190°	1.992
30°	0.518	110°	1.638	195°	1.983
35°	0.601	115°	1.687	200°	1.97
40°	0.684	120°	1.732	205°	1.953
45°	0.765	130°	1.813	210°	1.932
50°	0.845	135°	1.848	215°	1.907
55°	0.923	140°	1.879	220°	1.879
60°	1	145°	1.907	225°	1.848
65°	1.075	150°	1.932	230°	1.813
70°	1.147	155°	1.953	235°	1.774
75°	1.218	160°	1.97	240°	1.732
80°	1.286	165°	1.983		
85°	1.351	170°	1.992		

- Calculate resultant load for the Drive Pulley. Divide T_1 by T_2 (T_1/T_2) to look up in table 4.

Then calculate drive R:

$$R = T_2 \times \text{Factor}$$

- Belt and Pulley width relationship

$$PW = BW + 2 \text{ (Belting } < 48\text{")}$$

$$PW = BW + 3 \text{ (Belting } \geq 48\text{")}$$

- Determine minimum Shaft size by using Table 5 (next page). Subtract the face width from the bearing centers. Using the face width column go down and across from the proper bearing center minus face (interpolate if necessary) until a Shaft load rating shows higher than the calculated resultant load from above.

- Pulley diameters are recommended by the belt manufacturer and generally have greater impact on pulley diameter selection than the load itself. Table 3 is used to compare the recommended diameter from the belt manufacturer to the PIW ratings for standard duty Pulleys.

Table 3: Pulley PIW Rating

Arc of Contact	Pulley Diameter (Inches)													
	8	10	12	14	16	18	20	24	30	36	42	48	54	60
10	65	80	95	120	145	175	205	260	345	430	520	605	690	775
20	50	60	75	95	115	135	160	200	265	335	400	465	535	600
30	45	55	65	80	100	115	140	175	230	290	345	405	460	520
40	35	45	55	70	85	100	120	150	200	245	295	345	395	445
50	30	40	45	60	70	85	100	130	170	215	255	300	340	385
60	30	40	45	60	70	85	100	125	165	205	250	290	330	375
70	30	40	50	60	75	85	105	130	175	220	260	305	350	395
80	30	45	50	65	80	95	115	140	190	235	285	330	375	425
90	35	45	55	70	85	100	120	150	200	255	305	355	405	455
100	40	50	60	75	90	110	130	160	215	270	325	380	430	485
110	45	55	65	80	100	115	140	175	230	290	345	405	460	520
120	45	55	65	85	105	120	145	185	245	305	365	425	490	550
130	50	60	75	95	115	135	160	200	265	335	400	465	535	600
140	55	70	80	105	125	150	180	225	300	375	450	525	600	675
150	60	75	90	115	140	170	200	250	335	420	505	590	670	755
160	70	85	100	130	160	185	225	280	375	465	560	650	745	840
170	75	95	115	145	175	205	250	310	415	520	620	725	830	930
180	85	105	125	160	195	230	275	345	460	575	690	805	920	1035
190	75	95	115	145	175	205	250	310	415	520	620	725	830	930
200	70	85	100	130	160	185	225	280	375	465	560	650	745	840
210	60	75	90	115	140	170	200	250	335	420	505	590	670	755
220	55	70	80	105	125	150	180	225	300	375	450	525	600	675
230	50	60	75	95	115	135	160	200	265	335	400	465	535	600
240	45	55	65	85	105	120	145	185	245	305	365	425	490	550

Table 4: Resultant Load Factor, Drive Pulleys

T_1 / T_2	Angle of Wrap														
	180	185	190	195	200	205	210	215	220	225	230	235	240		
1.8	2.8	2.798	2.79	2.778	2.761	2.739	2.713	2.681	2.645	2.605	2.56	2.511	2.458		
2	3	2.998	2.99	2.977	2.96	2.937	2.909	2.887	2.84	2.798	2.752	2.701	2.646		
2.2	3.2	3.197	3.19	3.177	3.158	3.135	3.107	3.073	3.035	2.992	2.944	2.892	2.836		
2.4	3.4	3.394	3.389	3.376	3.357	3.333	3.304	3.27	3.231	3.187	3.138	3.085	3.027		
2.6	3.6	3.597	3.589	3.575	3.556	3.532	3.502	3.467	3.427	3.382	3.332	3.278	3.219		
2.8	3.8	3.797	3.789	3.775	3.755	3.73	3.7	3.664	3.624	3.578	3.527	3.472	3.412		
3	4	3.997	3.989	3.974	3.955	3.929	3.898	3.862	3.821	3.774	3.723	3.667	3.606		
3.2	4.2	4.197	4.188	4.174	4.154	4.128	4.097	4.06	4.018	3.971	3.919	3.862	3.8		
3.4	4.4	4.397	4.388	4.374	4.353	4.327	4.295	4.258	4.215	4.168	4.115	4.057	3.995		
3.6	4.6	4.597	4.588	4.573	4.553	4.526	4.494	4.456	4.413	4.365	4.312	4.253	4.191		
3.8	4.8	4.797	4.788	4.773	4.752	4.725	4.693	4.655	4.611	4.562	4.509	4.45	4.387		
4	5	4.997	4.988	4.973	4.952	4.925	4.892	4.853	4.809	4.76	4.706	4.647	4.583		
4.2	5.2	5.197	5.188	5.172	5.151	5.124	5.091	5.052	5.008	4.958	4.903	4.844	4.779		
4.4	5.4	5.397	5.388	5.372	5.351	5.323	5.29	5.251	5.206	5.156	5.101	5.041	4.976		



Conveyor Pulley and Shaft Engineering

Table 4: Allowable Shaft Loads (lb) for Pulleys

Shaft Diameter	Bearing Centers Minus Face	Pulley Face Width (in)															
		12	14	16	18	20	22	26	32	38	44	51	57	63	66		
1.188	2	1000	920	780	670	590	530	440	350	290	240	210	180	170	160		
	6	570	520	440	380	340	300	250	200	160	140	120	100	94	90		
	10	400	370	310	270	230	210	170	140	110	96	82	73	66	63		
	14	300	280	240	200	180	160	130	110	87	74	63	56	51	48		
1.438	3	1500		1400	1200	1100	950	790	620	510	440	370	330	300	290		
	6	1000		950	820	720	640	530	420	350	300	250	220	200	190		
	10	700		660	570	500	450	370	290	240	210	180	160	140	130		
	14	540		510	440	390	350	290	230	190	160	140	120	110	100		
1.688	3	2400			2300	2000	1800	1500	1200	980	830	710	630	570	540		
	6	1600			1600	1400	1200	1000	800	660	560	480	430	380	370		
	10	1100			1100	960	850	700	560	460	390	340	300	270	260		
	16	780			750	660	590	490	380	320	270	230	210	180	180		
1.938	3	3700				3500	3100	2600	2100	1700	1400	1200	1100	990	940		
	6	2500				2400	2100	1800	1400	1100	980	840	740	670	640		
	10	1700				1700	1500	1200	970	800	680	580	520	470	440		
	16	1200				1100	1000	840	670	550	470	400	360	320	310		
2.188	3	5300					5100	4200	3300	2800	2400	2000	1800	1600	1500		
	8	2900					2800	2300	1900	1500	1300	1100	990	890	850		
	12	2200					2100	1700	1400	1100	970	820	730	660	630		
	18	1500					1500	1200	980	810	690	590	530	470	450		
2.438	4	6300						5600	4400	3700	3100	2700	2400	2100	2000		
	8	4000						3600	2900	2400	2000	1700	1500	1400	1300		
	12	3000						2700	2100	1700	1500	1300	1100	1000	970		
	18	2100						1900	1500	1300	1100	910	810	730	690		
2.688	4	8100							6400	5300	4500	3800	3400	3100	2900		
	8	5300							4200	3400	2900	2500	2200	2000	1900		
	12	3900							3100	2600	2200	1900	1600	1500	1400		
	18	2800							2200	1800	1600	1300	1200	1100	1000		
2.938	4	10600								9100	7500	6400	5500	4900	4400	4200	
	8	6900								6000	4900	4200	3600	3200	2900	2700	
	14	4600								3900	3200	2800	2300	2100	1900	1800	
	20	3400								2900	2400	2000	1700	1600	1400	1300	
3.438	6	11600									10100	8500	7200	6400	5700	5500	
	10	8500									7400	6300	5300	4700	4200	4000	
	14	6700									5800	4900	4200	3700	3300	3200	
	20	5100									4400	3800	3200	2800	2500	2400	
3.938	6	16700										14200	12000	10600	9500	9000	
	10	12400										10600	8900	7900	7100	6700	
	14	9800										8400	7100	6300	5600	5300	
	20	7500										6400	5400	4800	4300	4100	
4.438	8	19600											19100	16100	14200	12700	12100
	12	15300											14800	12500	11100	9900	9400
	16	12500											12100	10300	9100	8100	7700
	22	9800											9500	8100	7100	6400	6000
4.938	8	25200												23600	20800	18500	17600
	12	19900												18600	16400	14600	13900
	16	16400												15400	13500	12100	11500
	22	13000												12200	10700	9600	9100
5.438	10	26600													25100	22300	21100
	14	22000													20700	18400	17500
	18	18700													17700	15700	14900
	24	15300													14500	12800	12200
6	10	35700														33100	31300
	14	29500														27300	25900
	18	25100														23300	22100
	24	20600														19000	19000
6.5	12	39200														38000	
	16	33200														32100	
	20	28800														27800	
	26	24000														23200	
7	12	49000															
	16	41400															
	20	35900															
	26	29900															
7.5	14	54100															
	18	46500															
	22	40800															
	28	34400															

Belt Conveyor Data Sheet



Date: _____

By: _____

Company Name: _____

Contact: _____

Conveyor ID: _____

Project: _____

Required Capacity: _____ TPH

Length: _____ ft.

Lift: _____ ft. of angle of incline

Material Conveyed: _____ Density: _____ lb/cu.ft Repose Angle: _____

Belt Speed: _____

Belt Width: _____

Belt Construction: _____

Carrying Idler Angle: _____ Spacing: _____ Return Spacing: _____

Number of Plows: _____

Number of Scrapers: _____

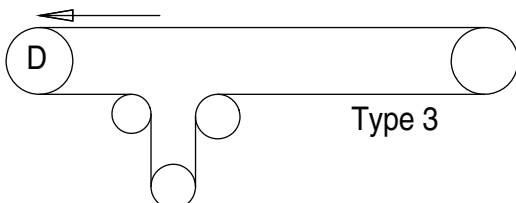
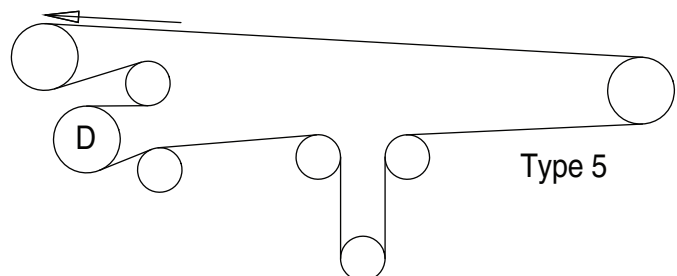
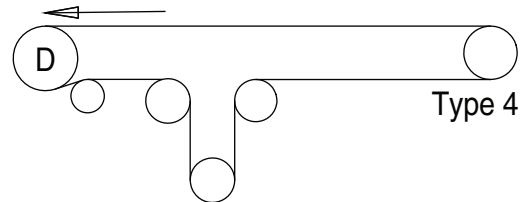
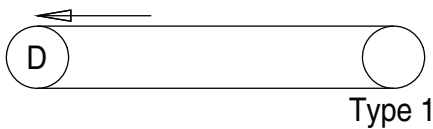
Skirtboard Length: _____ Height of Material on Skirtboard: _____

Horsepower: _____

Soft Start Type: _____ (electronic, fluid, etc.)

Bearing Centers: _____ inches

Conveyor Type: _____ (see diagrams)





HD Pulley Data Sheet

Salesperson: _____ Date: _____

Customer: _____ Contact: _____

Address: _____

Phone: _____ Email: _____

Pulley Tag/Callout: _____ Quantity: _____

1. Type of Pulley: Drum Wing

2. Crown or Flat Face: Crown Flat

3. Duty of Pulley: Standard Mine Quarry Quarry AR (Wing) Engineered

4. Diameter (in): 4 6 8 10 12 14 16 18 20 24 30 36 42 48
 Other: _____

5. Face Width (in): 12 14 16 20 26 32 38 44 51 57 63 75
 Other: _____

(Standard face is belt width +2" up to and including 42" belt and belt width +3" above 42")

6. Hub Style: MXT QD TL MHE Keyless Locker _____

7. Pulley Bushing Bore: _____

8. Lagging (Drum): Vulcanized SBR (select thickness and pattern below):
Thickness (in): .25 .375 .5 .75 _____
Pattern: Smooth Herringbone Diamond _____

* If used underground please specify **MSHA** and call for assistance.

* If used in a grain handling application and/or explosive air born particulate application specify **SOF** and call for assistance.

Weld-On Replaceable

Urethane

Ceramic:

Cold Bond

Vulcanized

9. Lagging (Wing): Slide on Replaceable Weld-On (with tabs)

Vulcanized SBR Urethane

10. Shafting (Basic): Diameter: _____ x Length: _____ Bearing Centers: _____

Drive Side Extension Right Hand Left Hand

11. Shafting (More Detail - A sketch or drawing may be required before manufacturing):

_____ Major Shaft Diameter (inside Pulley)

_____ Shaft Diameter at Drive

_____ Shaft Diameter at Bushing

_____ Drive Key Length

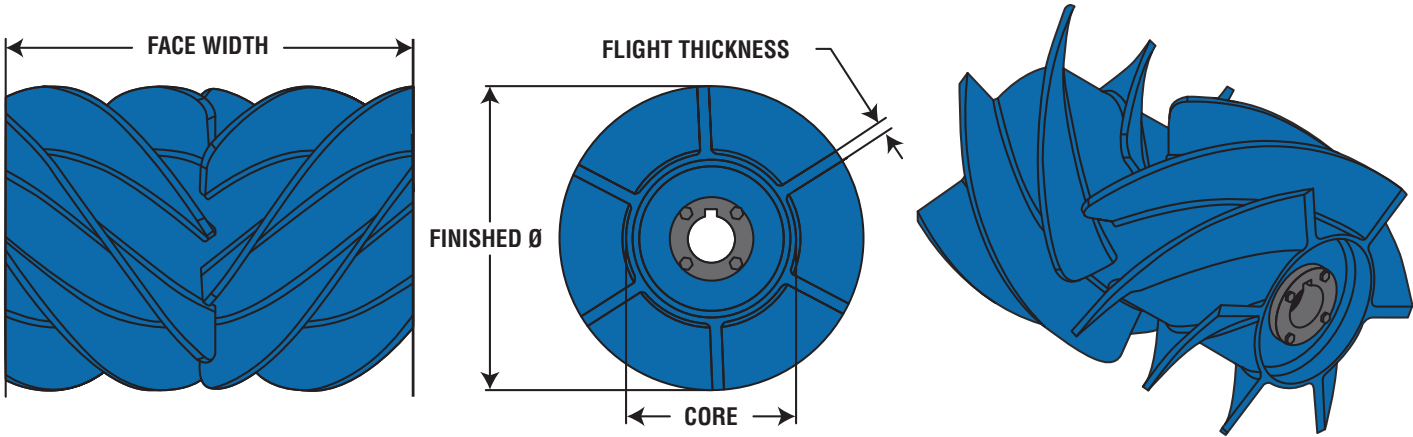
_____ Shaft Diameter at Bearing

_____ Drive Key Details

12. Bearing and Drive Information Include with Quote For Information Only

13. Notes: _____

Clean Flight® Wing Data Sheet

Salesperson: _____ Date: _____
 Customer: _____ Contact: _____
 Address: _____
 Phone: _____ Email: _____
 Pulley Tag/Callout: _____ Quantity: _____

Basic Pulley Data:

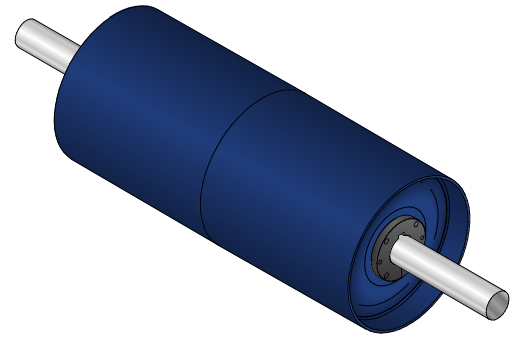
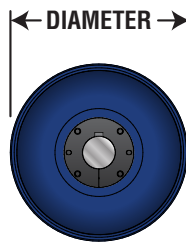
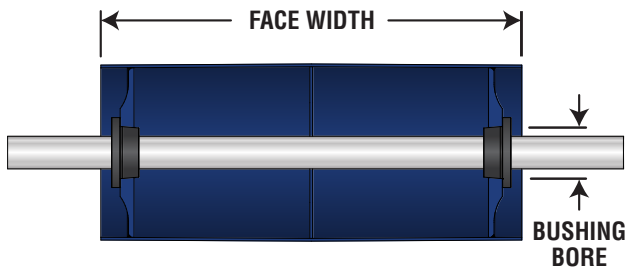
Finished Diameter: _____ Face Width: _____ Bushing Bore: _____
 Conveyed Material Lump Size: _____ Location on Conveyor: _____
 Application: _____
 Notes: _____

Additional Data and Options

Duty: _____ Flight Thickness: _____ Core Diameter: _____
 Pulley Material: _____
 Shaft Diameter: _____ × OAL: _____
 Notes: _____
 Horsepower: _____ Belt Speed: _____ Belt Wrap: _____
 Conveyor Take-Up Style (Mechanical or Gravity/Automatic): _____
 Bearing Diameter: _____ Bearing Centers: _____
 Belt Width: _____ Belt PIW: _____



Martin Elite Series Data Sheet



Salesperson: _____ Date: _____
 Customer: _____ Contact: _____
 Address: _____
 Phone: _____ Email: _____
 Pulley Tag/Callout: _____ Quantity: _____

1. Crown or Flat Face: Crown Flat
 2. Diameter (in): 14 16 18 20 24 30 36 Other: _____
 3. Face Width (in): 20 26 32 38 44 51 63 Other: _____
 (Standard face is belt width +2" up to and including 42" belt and belt width +3" above 42")

4. Hub Style: MXT Keyless Locker Other: _____

5. Pulley Bushing Bore: _____

6. Lagging: Vulcanized SBR (select thickness and pattern below):
 Thickness (in): .25 .375 .5 .75 Other: _____
 Pattern: Smooth Herringbone Diamond Other: _____

* If used underground please specify **MSHA** and call for assistance.

* If used in a grain handling application and/or explosive air born particulate application specify **SOF** and call for assistance.

Weld-On Replaceable

Urethane

Ceramic:

Cold Bond

Vulcanized

7. Shafting (Basic): Diameter: _____ × Length: _____ Bearing Centers: _____

Drive Side Extension

Right Hand

Left Hand

8. Shafting (More Detail - A sketch or drawing may be required before manufacturing):

_____ Major Shaft Diameter (inside Pulley)

_____ Shaft Diameter at Drive

_____ Shaft Diameter at Bushing

_____ Drive Key Length

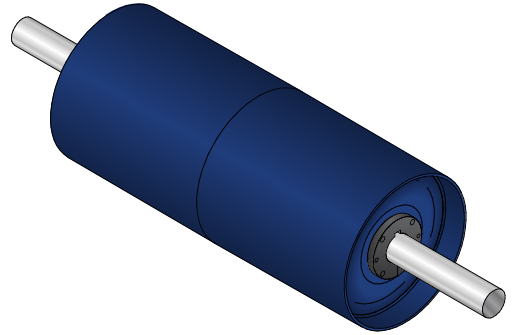
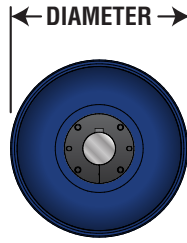
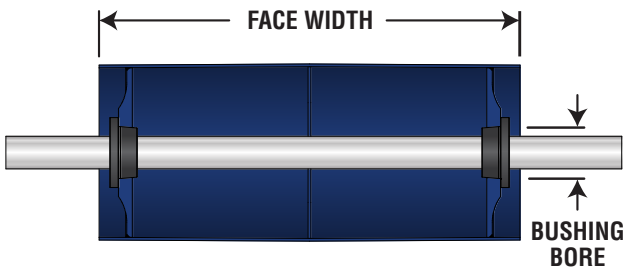
_____ Shaft Diameter at Bearing

_____ Drive Key Details

9. Bearing and Drive Information Include with Quote For Information Only

10. Notes: _____

Martin Elite Series Data Sheet



Salesperson: _____ Date: _____
 Customer: _____ Contact: _____
 Address: _____
 Phone: _____ Email: _____
 Pulley Tag/Callout: _____ Quantity: _____

1. Crown or Flat Face: Crown Flat
 2. Diameter (in): 14 16 18 20 24 30 36 Other: _____
 3. Face Width (in): 20 26 32 38 44 51 63 Other: _____
 (Standard face is belt width +2" up to and including 42" belt and belt width +3" above 42")

4. Hub Style: MXT Keyless Locker Other: _____

5. Pulley Bushing Bore: _____

6. Lagging: Vulcanized SBR (select thickness and pattern below):
 Thickness (in): .25 .375 .5 .75 Other: _____
 Pattern: Smooth Herringbone Diamond Other: _____

* If used underground please specify **MSHA** and call for assistance.
 * If used in a grain handling application and/or explosive air born particulate application specify **SOF** and call for assistance.

- Weld-On Replaceable
 Urethane
 Ceramic:
 Cold Bond Vulcanized

7. Shafting (Basic): Diameter: _____ × Length: _____ Bearing Centers: _____
 Drive Side Extension Right Hand Left Hand

8. Shafting (More Detail - A sketch or drawing may be required before manufacturing):
 _____ Major Shaft Diameter (inside Pulley) _____ Shaft Diameter at Drive
 _____ Shaft Diameter at Bushing _____ Drive Key Length
 _____ Shaft Diameter at Bearing _____ Drive Key Details

9. Bearing and Drive Information Include with Quote For Information Only

10. Notes: _____

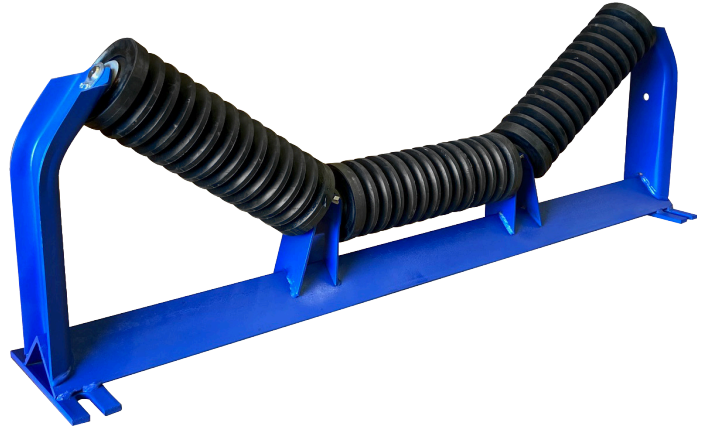
IDLERS

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Idler Types



Equal Idlers are designed to support the belt and transport material on the carrying side of the belt. Troughing Idlers typically consist of 3 rolls with wing rolls at 20, 35 or 45 degree inclinations.



Impact Idlers are located at loading and transfer points. The rolls are equipped with rubber discs that cushion the impact and reduce costly belt damage. Impact Idler frames are reinforced to reduce frame flexing under load.



Equal Self-Aligners are used to assist with belts that may be misaligned due to environmental conditions. Equal Self-Aligners pivot to guide the belt back to the center of the troughing Idlers. Equal Self-Aligners can be troughing, steel return or flat carrying.



Unequal Idlers (Picking Idlers) are used due to their lower profile design. They typically consist of one longer roll in the center and two shorter inclined wing rolls. This design lays out the material and allows for easy sorting and separation. Unequal Idlers are available with steel or impact rolls.



Steel Channel Inset Idlers mount down inside a channel frame or vertical mounting surface and bolt horizontally. The low profile design is often used on portable equipment where reducing height is critical. Channel Inset Idlers are available in steel and reinforced impact designs.



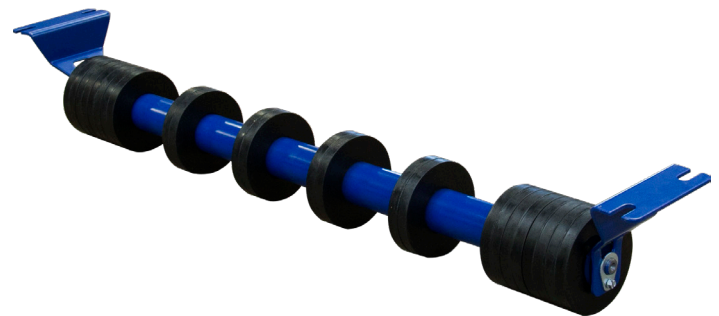
Impact Beds can be used at a material transfer point in place of impact idlers to help with material impact or conveyor sealing. Impact beds are able to handle a much heavier impact force. The replaceable impact bars are made of rubber with a UHMW cap to reduce conveyor belt drag.



Live Shaft Rolls can be provided with pillow block bearings. They are typically used in feeder applications or applications with higher belt tensions not suitable for conventional flat rolls with internal bearings. Live Shaft rolls are available in impact, spaced rubber disc and steel configurations.



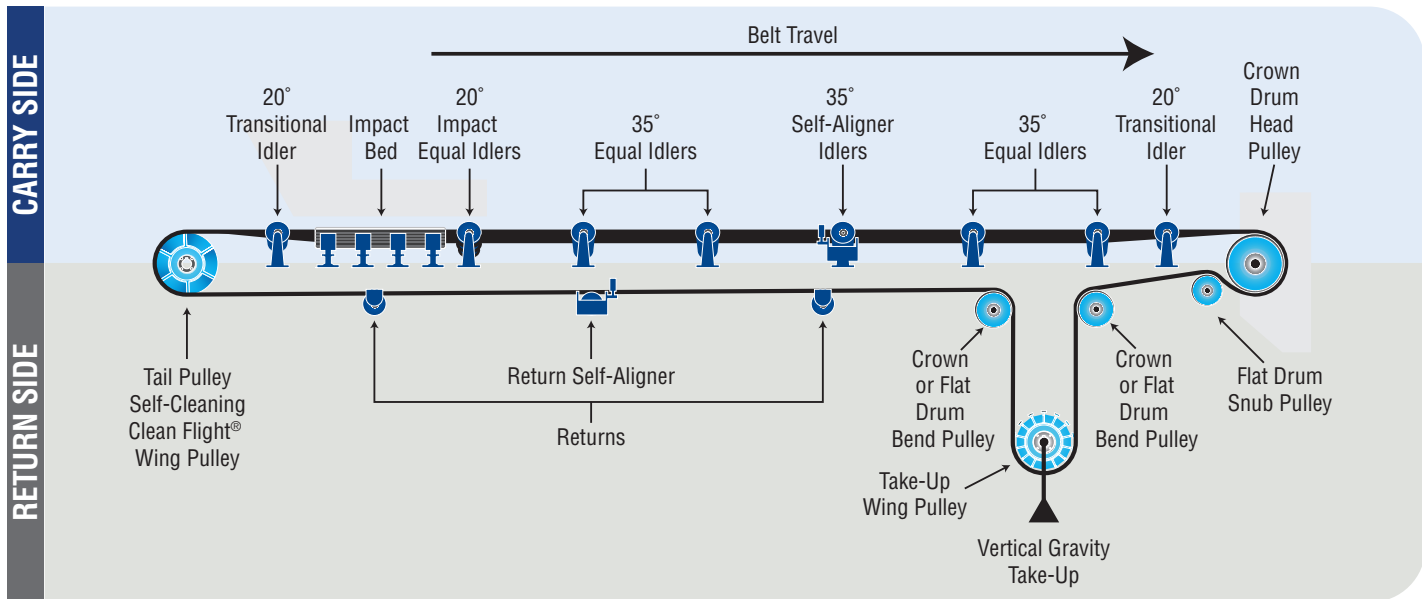
Steel Returns are used to support the belt on the return side when the conveyed material is not sticky, corrosive or excessively abrasive. These rolls are available with a variety of coatings suitable for the specific application.



Rubber Disc Returns are used to support the belt on the return side when the conveyed material is sticky or abrasive. The spaced rubber discs flex and offer relief to avoid material build-up caused by excessive carryback. Rolls have flat, massed rubber ends to offer support if the belt mistracks from center.

Application

The following is a simplified conveyor used to illustrate basic belt conveyor components. Many variations of elevation, loading, discharge, Idlers and Idler spacing, pulleys, and accessories are possible.



CARRY SIDE

Tail Pulley. A Pulley at the tail of the belt conveyor opposite the normal discharge end; may be a Wing Pulley, Clean Flight® Wing or Drum Pulley.

Transitional Idler. Typically found on either end of the conveyor. These Idlers have a smaller wing roll angle and help transition the conveyor belt to or from flat to full trough angle.

Impact Beds. Can be used at a material transfer point in place of impact Idlers to help with material impact or conveyor sealing. Impact beds are able to handle a much heavier impact force. The replaceable impact bars are made of rubber with a UHMW cap to reduce conveyor belt drag.

Impact Idlers. Rubber discs help to absorb and dissipate impact forces without transferring it through the shaft, bearings, Idler frames and conveyor structure. Impact Idler frames are reinforced for added strength.

Idlers. Support the conveyor belt and provide a trough to contain the material conveyed.

Equal Self-Aligners. Also known as training Idlers are a solution for a mistracking belt. If the belt contacts the guide rolls or the self-actuating shoe the top of the Idler pivots to steer the belt back into the trough.

Steel Flat Carry. Some conveyors might require the belt to run flat for various needs like picking, sorting, or inspecting.

Head Pulley. The Pulley at the discharge end of a conveyor belt; may be either a non-drive or a drive pulley. Usually it has a larger diameter than other pulleys in the system and is often lagged to increase traction and pulley life.

RETURN SIDE

Snub Pulley. Mounted close to the Drive Pulley on the return side of the belt, the Snub Pulley's primary job is to increase the angle of wrap around the Drive Pulley, thereby increasing traction. Its secondary purpose is reducing belt tension, which is important in maximizing conveyor component life. The Snub Pulley may be lagged for longer wear life.

Bend Pulley. The Bend Pulley is used for changing the direction of the belt running to the gravity take-up. It may be lagged for longer wear life.

Take-Up Pulley. A floating pulley with a counter weight to maintain adequate belt tension.

Return Idlers. Can be steel or spaced rubber discs. Typically mounted in drop brackets on the underside of the conveyor structure. The primary purpose of a Return roll is to support the empty belt on the return side of the conveyor.

Return Self-Aligner Idlers. Mounted on the return side of the belt. Supports an empty flat belt. The assembly pivots if the return side of the belt begins to mistrack guiding the belt back into the center of the Steel Return rolls.

V-Return. 2 rolls typically in a 10 degree V assembly. The V profile aids with belt tracking. Should be used on higher tension systems and when steel cord belts are used in the application.

Inverted V-Return. Mounted on the inside of the belt to aid with belt tracking on the return side into the tail pulley.

Live Shaft Rolls. Steel, spaced rubber disc or feeder impact solid rubber discs mounted on external pillow block or flange bearings. Typically used in applications with excessive impact and material load or in areas of a conveyor belt with elevated belt tensions.

C 5 - 10 V 4 G - 36 - 09

CEMA Class

C, D, E

Roll Diameter

4, 5, 6, 7

Angle (Not for Steel Return & Flat Idlers)

10° V-Return

15° Inverted V-Return

20°, 35°, 45° Idler

Idler Type

CARRY SIDE	RETURN SIDE
T Equal Steel Idler	R Steel Return**
TI Equal Impact Idler	RRD Rubber Disc Return**
TSA Equal Steel Self-Aligner	RSA Steel Return Self-Aligner*
TSS Equal Steel Self-Aligner Shoe-Type	RSS Steel Return Self-Aligner Shoe-Type*
TO Offset Idler	RRDSA Rubber Disc Return Self-Aligner*
U Unequal Steel Idler	CR Steel Channel Inset Return
UI Unequal Impact Idler	CRRD Rubber Disc Channel Inset Return
CT Steel Channel Inset Idler	V Steel V-Return*
CTI Impact Channel Inset Idler	VRD Rubber Disc V-Return*
F Steel Flat Carry**	IV Steel Inverted V-Return
FRD Impact Flat Carry**	IVRD Rubber Disc Inverted V-Return
FSA Steel Flat Carry Self-Aligner	LR Steel Live Shaft Roll
	LI Impact Live Shaft Roll
	LRRD Rubber Disc Live Shaft Roll

Wall Thickness Gauge

(Only Steel Rolls)

09, 07, 04

Belt Width

C 18" to 60"

D 24" to 72"

E 36" to 96"

Special Construction

- A** Grain
- B** Box Frame Idler
- C** Catenary
- G** Galvanized Frame
- L** Urethane-Lagged Rolls
- Q** Scale Quality
- R** Removable Wing Bracket
- RET** Retractable
- TT** Adjustable/Transitional Idler
- W** Wide Base
- WR** Wire Rope

*Frame Rise/Drop for V, VRD, RSA, RRDSA

1 1.5" Standard

4 4.5" Standard

4S 4.5" Belt Saver

7S 7" Belt Saver

**Bracket Rise/Drop for R, RRD, F, FRD

Add the end of part number, examples:

C 5 - R - 36 - 09 - 4S

C 5 - FRD - 36 - 1

CEMA C Series Idler Features & Benefits

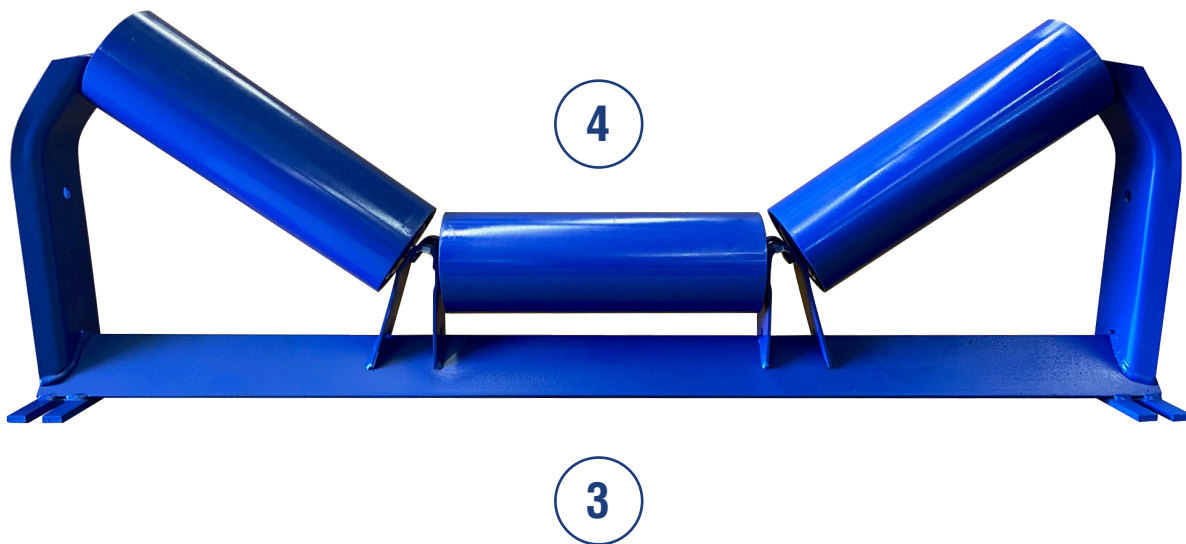


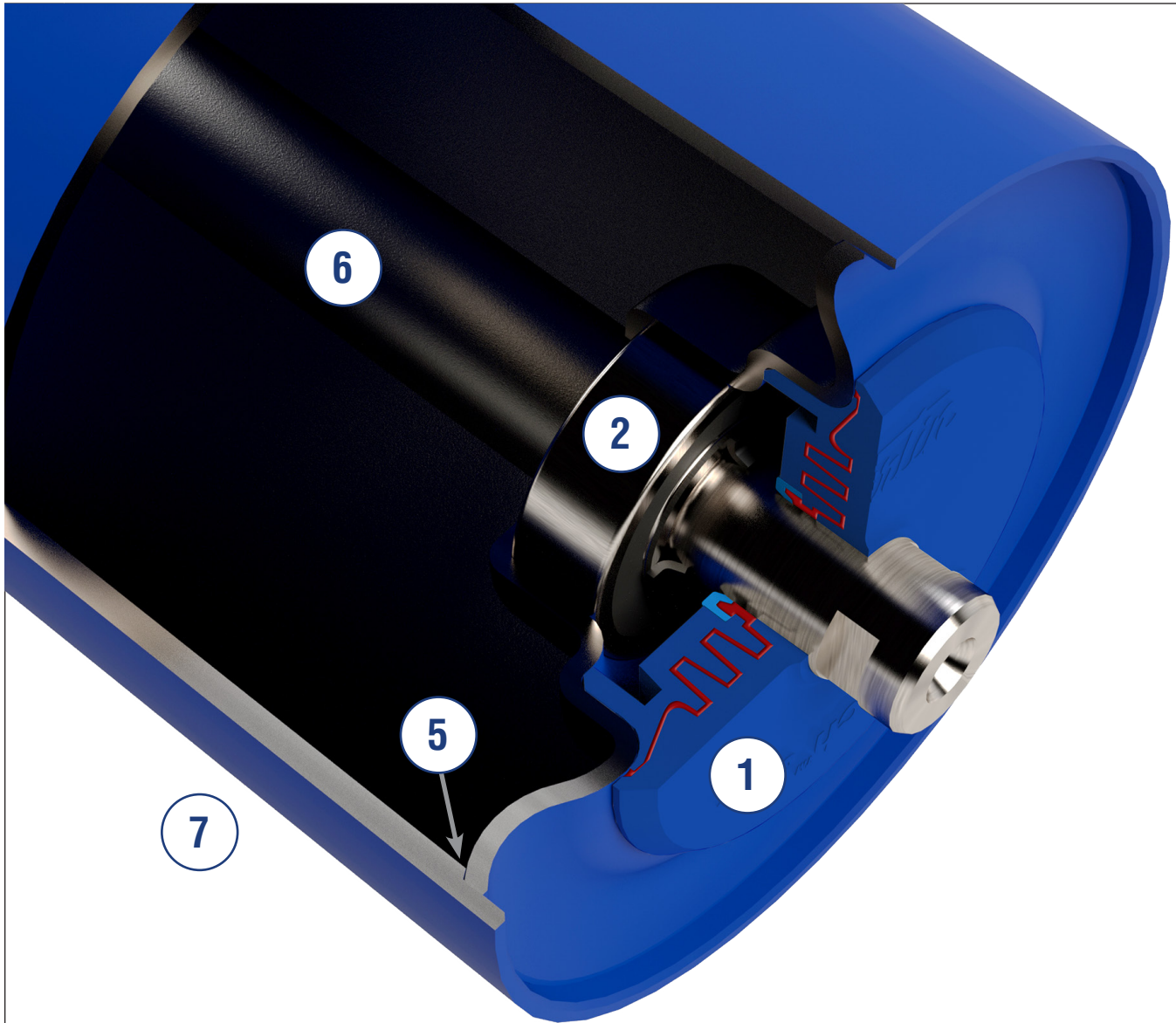
The C Series Idler sets a standard for the industry

- Manufactured using sealed for life ball bearings for long maintenance free operation
- *Martin* Premium Triple Labyrinth Seal guard bearing protection
- Conform to all CEMA C load and dimensional requirements
- Protected roll weld
- *Martin* Triple Labyrinth Seal guard offers a balance of seal performance and low rolling resistance

CEMA C Load Ratings

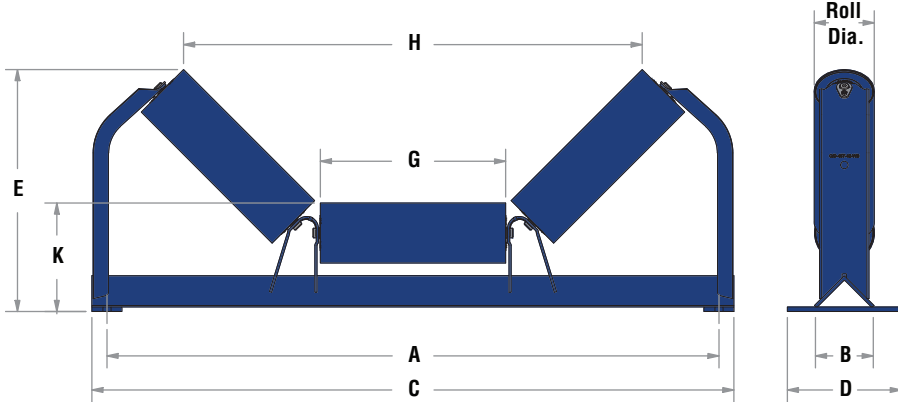
Belt Width	Troughing Angle			Steel Return & Flat	Unequal Picking	Live Shaft
	20°	35°	45°			
18	900	900	900	475	-	1200
24	900	900	900	325	475	1200
30	900	900	900	250	475	1200
36	900	837	810	200	325	1200
42	850	791	765	150	250	1100
48	800	744	720	125	200	1000
54	750	698	675	CEMA D	150	875
60	700	650	630	CEMA D	125	780
Two Steel V>Returns (All)				500	-	-





1	<p><i>Martin</i> Triple Labyrinth Seal design offers the following exclusive <i>Martin</i> bearing protection</p> <ul style="list-style-type: none"> • External shield deters impurities from entering the bearing housing • Flinger design removes contaminants away from the bearing housing by centrifugal force • Grease is injected into the labyrinth chambers during manufacturing to add an additional layer of protection against bearing contamination • The contact lip seal adds an additional level of protection against moisture & fine particulate contaminants
2	CEMA C Idlers have sealed for life ball bearings
3	CEMA C Idlers standard product line is 18" to 60" belt widths
4	<i>Martin</i> CEMA C Idlers offer low rolling resistance that allows for lower operating cost
5	Recessed & protected bearing housing weld protects against wear from belt
6	Oversized, solid steel shaft machined to 20 mm for bearings
7	<i>Martin</i> Idlers have low TIR

CEMA C Equal Steel Idlers



Belt Width	Standard Dimensions					Wide Base	
	A	B	C	D	G	Aw*	Cw*
18	27	5.5	29.5	8	6.75	33	35.5
20	29	5.5	31.5	8	7.63	35	37.5
24	33	5.5	35.5	8	8.94	39	41.5
30	39	5.5	41.5	9.5	11.13	45	47.5
36	45	5.5	47.5	9.5	13.25	51	53.5
42	51	5.5	53.5	9.5	15.44	57	59.5
48	57	5.5	59.5	9.5	17.63	63	65.5
54	63	7	65.5	11	19.75	69	71.5
60	69	7	71.5	11	21.75	75	77.5

*Dimension not shown; for wide base.

20° Equal Steel Idlers

Belt Width	4" Roll Diameter						5" Roll Diameter						6" Roll Diameter					
	Part Number	E	H	K	Wt.	Replace-ment Roll	Part Number	E	H	K	Wt.	Replace-ment Roll	Part Number	E	H	K	Wt.	Replace-ment Roll
18	C4-20T-18-09	10.5	21	8	38	C4-T-18-09	C5-20T-18-09	10.94	20.63	8.5	42	C5-T-18-09	C6-20T-18-09	11.44	20.25	9	46	C6-T-18-09
20	C4-20T-20-09	10.75	23.56	8	41	C4-T-20-09	C5-20T-20-09	11.25	23.25	8.5	45	C5-T-20-09	C6-20T-20-09	11.69	22.88	9	50	C6-T-20-09
24	C4-20T-24-09	11.25	27.25	8	45	C4-T-24-09	C5-20T-24-09	11.75	26.94	8.5	49	C5-T-24-09	C6-20T-24-09	12.19	26.63	9	54	C6-T-24-09
30	C4-20T-30-09	12.13	33.56	8.13	53	C4-T-30-09	C5-20T-30-09	12.63	33.25	8.63	59	C5-T-30-09	C6-20T-30-09	13.06	32.88	9.13	64	C6-T-30-09
36	C4-20T-36-09	12.81	39.68	8.13	60	C4-T-36-09	C5-20T-36-09	13.31	39.31	8.63	66	C5-T-36-09	C6-20T-36-09	13.75	39	9.13	73	C6-T-36-09
42	C4-20T-42-09	14	46	8.5	69	C4-T-42-09	C5-20T-42-09	14.44	45.63	9	76	C5-T-42-09	C6-20T-42-09	14.94	45.31	9.5	84	C6-T-42-09
48	C4-20T-48-09	14.75	52.31	8.5	76	C4-T-48-09	C5-20T-48-09	15.25	51.94	9	84	C5-T-48-09	C6-20T-48-09	15.68	51.63	9.5	92	C6-T-48-09
54	C4-20T-54-09	15.44	58.44	8.5	83	C4-T-54-09	C5-20T-54-09	15.94	58.06	9	93	C5-T-54-09	C6-20T-54-09	16.44	57.75	9.5	102	C6-T-54-09
60	C4-20T-60-09	16.5	64.19	8.88	90	C4-T-60-09	C5-20T-60-09	16.94	63.81	9.38	100	C5-T-60-09	C6-20T-60-09	17.44	63.5	9.88	110	C6-T-60-09

35° Equal Steel Idlers

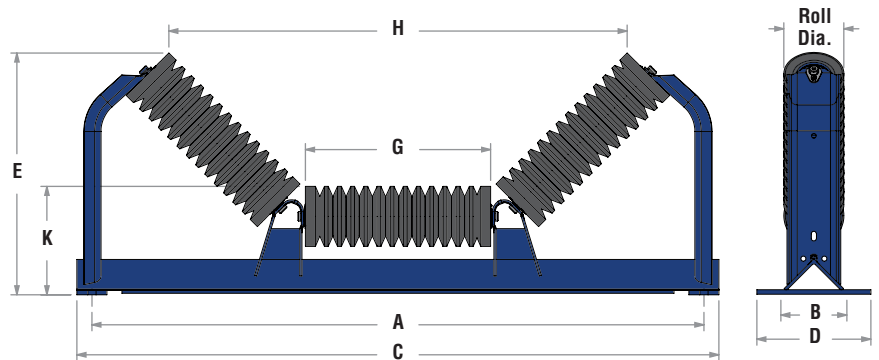
Belt Width	4" Roll Diameter						5" Roll Diameter						6" Roll Diameter					
	Part Number	E	H	K	Wt.	Replace-ment Roll	Part Number	E	H	K	Wt.	Replace-ment Roll	Part Number	E	H	K	Wt.	Replace-ment Roll
18	C4-35T-18-09	12.13	19.13	8	39	C4-T-18-09	C5-35T-18-09	12.5	18.5	8.5	43	C5-T-18-09	C6-35T-18-09	12.94	17.88	9	47	C6-T-18-09
20	C4-35T-20-09	12.63	21.69	8	42	C4-T-20-09	C5-35T-20-09	13.06	21.13	8.5	45	C5-T-20-09	C6-35T-20-09	13.5	20.56	9	51	C6-T-20-09
24	C4-35T-24-09	13.38	24.94	8	46	C4-T-24-09	C5-35T-24-09	13.81	24.31	8.5	51	C5-T-24-09	C6-35T-24-09	14.18	23.75	9	56	C6-T-24-09
30	C4-35T-30-09	14.75	30.68	8.13	55	C4-T-30-09	C5-35T-30-09	15.19	30.13	8.63	61	C5-T-30-09	C6-35T-30-09	15.63	29.5	9.13	66	C6-T-30-09
36	C4-35T-36-09	16	36.25	8.13	62	C4-T-36-09	C5-35T-36-09	16.38	35.68	8.63	68	C5-T-36-09	C6-35T-36-09	16.81	35.13	9.13	75	C6-T-36-09
42	C4-35T-42-09	17.63	42.06	8.5	72	C4-T-42-09	C5-35T-42-09	18.06	41.5	9	79	C5-T-42-09	C6-35T-42-09	18.44	40.94	9.5	86	C6-T-42-09
48	C4-35T-48-09	18.88	47.81	8.5	79	C4-T-48-09	C5-35T-48-09	19.31	47.25	9	87	C5-T-48-09	C6-35T-48-09	19.69	46.69	9.5	95	C6-T-48-09
54	C4-35T-54-09	20.06	53.44	8.5	87	C4-T-54-09	C5-35T-54-09	20.5	52.88	9	96	C5-T-54-09	C6-35T-54-09	20.88	52.25	9.5	105	C6-T-54-09
60	C4-35T-60-09	21.56	58.69	8.88	94	C4-T-60-09	C5-35T-60-09	22	58.13	9.38	103	C5-T-60-09	C6-35T-60-09	22.44	57.5	9.88	113	C6-T-60-09

45° Equal Steel Idlers

Belt Width	4" Roll Diameter						5" Roll Diameter						6" Roll Diameter					
	Part Number	E	H	K	Wt.	Replace-ment Roll	Part Number	E	H	K	Wt.	Replace-ment Roll	Part Number	E	H	K	Wt.	Replace-ment Roll
18	C4-45T-18-09	13.19	17.94	8	41	C4-T-18-09	C5-45T-18-09	13.5	17.25	8.5	45	C5-T-18-09	C6-45T-18-09	13.88	16.5	9	49	C6-T-18-09
20	C4-45T-20-09	13.75	20.31	8	44	C4-T-20-09	C5-45T-20-09	14.13	19.63	8.5	48	C5-T-20-09	C6-45T-20-09	14.5	18.94	9	51	C6-T-20-09
24	C4-45T-24-09	14.75	23.25	8	48	C4-T-24-09	C5-45T-24-09	15.06	22.5	8.5	53	C5-T-24-09	C6-45T-24-09	15.44	21.81	9	58	C6-T-24-09
30	C4-45T-30-09	16.38	28.5	8.13	57	C4-T-30-09	C5-45T-30-09	16.75	27.75	8.63	63	C5-T-30-09	C6-45T-30-09	17.06	27.06	9.13	69	C6-T-30-09
36	C4-45T-36-09	17.88	33.63	8.13	64	C4-T-36-09	C5-45T-36-09	18.25	32.94	8.63	71	C5-T-36-09	C6-45T-36-09	18.63	32.18	9.13	77	C6-T-36-09
42	C4-45T-42-09	19.81	38.94	8.5	75	C4-T-42-09	C5-45T-42-09	20.19	38.19	9	82	C5-T-42-09	C6-45T-42-09	20.5	37.5	9.5	89	C6-T-42-09
48	C4-45T-48-09	21.38	44.18	8.5	82	C4-T-48-09	C5-45T-48-09	21.68	43.5	9	90	C5-T-48-09	C6-45T-48-09	22.06	42.75	9.5	98	C6-T-48-09
54	C4-45T-54-09	22.81	49.31	8.5	90	C4-T-54-09	C5-45T-54-09	23.25	48.63	9	99	C5-T-54-09	C6-45T-54-09	23.56	47.94	9.5	108	C6-T-54-09
60	C4-45T-60-09	24.63	54.13	8.88	97	C4-T-60-09	C5-45T-60-09	25	53.44	9.38	107	C5-T-60-09	C6-45T-60-09	25.31	52.75	9.88	117	C6-T-60-09

Belt Width	Standard Dimensions					Wide Base	
	A	B	C	D	G	Aw*	Cw*
18	27	5.5	29.5	8	6.75	33	35.5
20	29	5.5	31.5	8	7.63	35	37.5
24	33	5.5	35.5	8	8.94	39	41.5
30	39	5.5	41.5	9.5	11.13	45	47.5
36	45	5.5	47.5	9.5	13.25	51	53.5
42	51	5.5	53.5	9.5	15.44	57	59.5
48	57	5.5	59.5	9.5	17.63	63	65.5
54	63	7	65.5	11	19.75	69	71.5
60	69	7	71.5	11	21.75	75	77.5

*Dimension not shown; for wide base.



20° Equal Impact Idlers

Belt Width	4" Roll Diameter						5" Roll Diameter						6" Roll Diameter					
	Part Number	E	H	K	Wt.	Replace-ment Roll	Part Number	E	H	K	Wt.	Replace-ment Roll	Part Number	E	H	K	Wt.	Replace-ment Roll
18	C4-20TI-18	10.5	21	8	44	C4-TI-18	C5-20TI-18	10.94	20.63	8.5	48	C5-TI-18	C6-20TI-18	11.44	20.25	9	51	C6-TI-18
20	C4-20TI-20	10.75	23.56	8	49	C4-TI-20	C5-20TI-20	11.25	23.25	8.5	52	C5-TI-20	C6-20TI-20	11.69	22.88	9	56	C6-TI-20
24	C4-20TI-24	11.25	27.25	8	55	C4-TI-24	C5-20TI-24	11.75	26.94	8.5	58	C5-TI-24	C6-20TI-24	12.19	26.63	9	65	C6-TI-24
30	C4-20TI-30	12.13	33.56	8.13	65	C4-TI-30	C5-20TI-30	12.63	33.25	8.63	71	C5-TI-30	C6-20TI-30	13.06	32.88	9.13	77	C6-TI-30
36	C4-20TI-36	12.81	39.68	8.13	75	C4-TI-36	C5-20TI-36	13.31	39.31	8.63	81	C5-TI-36	C6-20TI-36	13.75	39	9.13	88	C6-TI-36
42	C4-20TI-42	14	46	8.5	90	C4-TI-42	C5-20TI-42	14.44	45.63	9	96	C5-TI-42	C6-20TI-42	14.94	45.31	9.5	107	C6-TI-42
48	C4-20TI-48	14.75	52.31	8.5	99	C4-TI-48	C5-20TI-48	15.25	51.94	9	107	C5-TI-48	C6-20TI-48	15.68	51.63	9.5	117	C6-TI-48
54	C4-20TI-54	15.44	58.44	8.5	110	C4-TI-54	C5-20TI-54	15.94	58.06	9	119	C5-TI-54	C6-20TI-54	16.44	57.75	9.5	130	C6-TI-54
60	C4-20TI-60	16.5	64.19	8.88	119	C4-TI-60	C5-20TI-60	16.94	63.81	9.38	130	C5-TI-60	C6-20TI-60	17.44	63.5	9.88	142	C6-TI-60

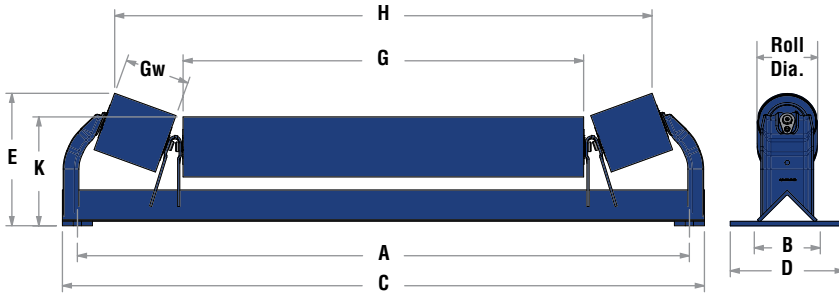
35° Equal Impact Idlers

Belt Width	4" Roll Diameter						5" Roll Diameter						6" Roll Diameter					
	Part Number	E	H	K	Wt.	Replace-ment Roll	Part Number	E	H	K	Wt.	Replace-ment Roll	Part Number	E	H	K	Wt.	Replace-ment Roll
18	C4-35TI-18	12.13	19.13	8	46	C4-TI-18	C5-35TI-18	12.5	18.5	8.5	49	C5-TI-18	C6-35TI-18	12.94	17.88	9	53	C6-TI-18
20	C4-35TI-20	12.63	21.69	8	50	C4-TI-20	C5-35TI-20	13.06	21.13	8.5	53	C5-TI-20	C6-35TI-20	13.5	20.56	9	58	C6-TI-20
24	C4-35TI-24	13.38	24.94	8	57	C4-TI-24	C5-35TI-24	13.81	24.31	8.5	60	C5-TI-24	C6-35TI-24	14.18	23.75	9	67	C6-TI-24
30	C4-35TI-30	14.75	30.68	8.13	67	C4-TI-30	C5-35TI-30	15.19	30.13	8.63	73	C5-TI-30	C6-35TI-30	15.63	29.5	9.13	79	C6-TI-30
36	C4-35TI-36	16	36.25	8.13	77	C4-TI-36	C5-35TI-36	16.38	35.68	8.63	83	C5-TI-36	C6-35TI-36	16.81	35.13	9.13	91	C6-TI-36
42	C4-35TI-42	17.63	42.06	8.5	93	C4-TI-42	C5-35TI-42	18.06	41.5	9	99	C5-TI-42	C6-35TI-42	18.44	40.94	9.5	109	C6-TI-42
48	C4-35TI-48	18.88	47.81	8.5	102	C4-TI-48	C5-35TI-48	19.31	47.25	9	110	C5-TI-48	C6-35TI-48	19.69	46.69	9.5	120	C6-TI-48
54	C4-35TI-54	20.06	53.44	8.5	113	C4-TI-54	C5-35TI-54	20.5	52.88	9	122	C5-TI-54	C6-35TI-54	20.88	52.25	9.5	133	C6-TI-54
60	C4-35TI-60	21.56	58.69	8.88	123	C4-TI-60	C5-35TI-60	22	58.13	9.38	133	C5-TI-60	C6-35TI-60	22.44	57.5	9.88	146	C6-TI-60

45° Equal Impact Idlers

Belt Width	4" Roll Diameter						5" Roll Diameter						6" Roll Diameter					
	Part Number	E	H	K	Wt.	Replace-ment Roll	Part Number	E	H	K	Wt.	Replace-ment Roll	Part Number	E	H	K	Wt.	Replace-ment Roll
18	C4-45TI-18	13.19	17.94	8	48	C4-TI-18	C5-45TI-18	13.5	17.25	8.5	51	C5-TI-18	C6-45TI-18	13.88	16.5	9	55	C6-TI-18
20	C4-45TI-20	13.75	20.31	8	50	C4-TI-20	C5-45TI-20	14.13	19.63	8.5	55	C5-TI-20	C6-45TI-20	14.5	18.94	9	60	C6-TI-20
24	C4-45TI-24	14.75	23.25	8	59	C4-TI-24	C5-45TI-24	15.06	22.5	8.5	62	C5-TI-24	C6-45TI-24	15.44	21.81	9	69	C6-TI-24
30	C4-45TI-30	16.38	28.5	8.13	70	C4-TI-30	C5-45TI-30	16.75	27.75	8.63	75	C5-TI-30	C6-45TI-30	17.06	27.06	9.13	81	C6-TI-30
36	C4-45TI-36	17.88	33.63	8.13	80	C4-TI-36	C5-45TI-36	18.25	32.94	8.63	86	C5-TI-36	C6-45TI-36	18.63	32.18	9.13	93	C6-TI-36
42	C4-45TI-42	19.81	38.94	8.5	95	C4-TI-42	C5-45TI-42	20.19	38.19	9	102	C5-TI-42	C6-45TI-42	20.5	37.5	9.5	112	C6-TI-42
48	C4-45TI-48	21.38	44.18	8.5	105	C4-TI-48	C5-45TI-48	21.68	43.5	9	114	C5-TI-48	C6-45TI-48	22.06	42.75	9.5	123	C6-TI-48
54	C4-45TI-54	22.81	49.31	8.5	117	C4-TI-54	C5-45TI-54	23.25	48.63	9	126	C5-TI-54	C6-45TI-54	23.56	47.94	9.5	137	C6-TI-54
60	C4-45TI-60	24.63	54.13	8.88	127	C4-TI-60	C5-45TI-60	25	53.44	9.38	137	C5-TI-60	C6-45TI-60	25.31	52.75	9.88	149	C6-TI-60

CEMA C Unequal Steel Idlers



Belt Width	Standard Dimensions				Wide Base	
	A	B	C	D	Aw*	Cw*
24	33	5.5	35.5	9.5	39	41.5
30	39	5.5	41.5	9.5	45	47.5
36	45	5.5	47.5	9.5	51	53.5
42	51	5.5	53.5	9.5	57	59.5
48	57	5.5	59.5	9.5	63	65.5
54	63	7	65.5	11	69	71.5
60	69	7	71.5	11	75	77.5

*Dimension not shown; for wide base.

20° Unequal Steel Idlers

Belt Width	G	Gw	4" Roll Diameter							5" Roll Diameter						
			Part Number	E	H	K	Wt.	Replacement Center Roll	Replacement Wing Roll	Part Number	E	H	K	Wt.	Replacement Center Roll	Replacement Wing Roll
24	15.44	5.44	C4-20U-24-09	10.00	27.19	8.00	43	C4-T-42-09		C5-20U-24-09	10.50	26.88	8.50	48	C5-T-42-09	
30	21.38	5.44	C4-20U-30-09	10.19	33.13	8.13	51	C4-R-18-09		C5-20U-30-09	10.63	32.81	8.63	56	C5-R-18-09	
36	27.38	5.44	C4-20U-36-09	10.19	39.13	8.13	57	C4-R-24-09		C5-20U-36-09	10.63	38.81	8.63	63	C5-R-24-09	
42	33.38	5.44	C4-20U-42-09	10.56	45.13	8.50	65	C4-R-30-09	C4-T-14-09	C5-20U-42-09	11.00	44.81	9.00	72	C5-R-30-09	C5-T-14-09
48	39.38	5.44	C4-20U-48-09	10.56	51.13	8.50	72	C4-R-36-09		C5-20U-48-09	11.00	50.81	9.00	79	C5-R-36-09	
54	45.38	5.44	C4-20U-54-09	10.56	57.13	8.50	79	C4-R-42-09		C5-20U-54-09	11.00	56.81	9.00	87	C5-R-42-09	
60	51.38	5.44	C4-20U-60-09	10.56	63.13	8.88	85	C4-R-48-09		C5-20U-60-09	11.00	62.81	9.38	94	C5-R-48-09	

Belt Width	G	Gw	6" Roll Diameter						
			Part Number	E	H	K	Wt.	Replacement Center Roll	Replacement Wing Roll
24	15.44	5.44	C6-20U-24-09	11.00	26.50	9.00	53	C6-T-42-09	
30	21.38	5.44	C6-20U-30-09	11.13	32.44	9.13	62	C6-R-18-09	
36	27.38	5.44	C6-20U-36-09	11.13	38.44	9.13	69	C6-R-24-09	
42	33.38	5.44	C6-20U-42-09	11.50	44.44	9.50	80	C6-R-30-09	C6-T-14-09
48	39.38	5.44	C6-20U-48-09	11.50	50.44	9.50	87	C6-R-36-09	
54	45.38	5.44	C6-20U-54-09	11.50	56.44	9.50	96	C6-R-42-09	
60	51.38	5.44	C6-20U-60-09	11.50	62.44	9.88	104	C6-R-48-09	

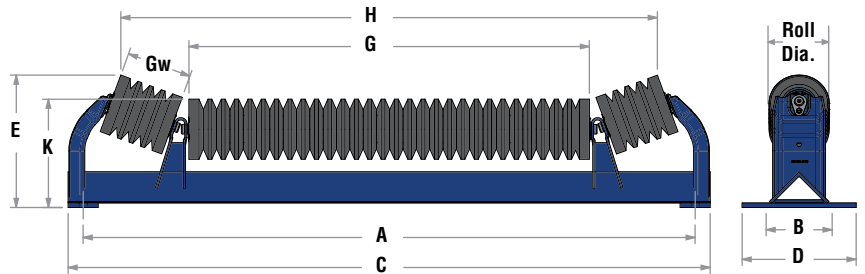
35° Unequal Steel Idlers

Belt Width	G	Gw	4" Roll Diameter							5" Roll Diameter						
			Part Number	E	H	K	Wt.	Replacement Center Roll	Replacement Wing Roll	Part Number	E	H	K	Wt.	Replacement Center Roll	Replacement Wing Roll
24	13.25	6.75	C4-35U-24-09	12.13	25.63	8.00	46	C4-T-36-09	C4-T-18-09	C5-35U-24-09	12.50	25.00	8.50	50	C5-T-36-09	C5-T-18-09
30	15.44	8.94	C4-35U-30-09	13.50	31.44	8.13	54	C4-T-42-09		C5-35U-30-09	13.94	30.81	8.63	60	C5-T-42-09	
36	19.75	8.94	C4-35U-36-09	13.50	35.69	8.13	59	C4-T-54-09	C4-T-24-09	C5-35U-36-09	13.94	35.13	8.63	65	C5-T-54-09	C5-T-24-09
42	21.38	11.13	C4-35U-42-09	15.19	40.94	8.50	69	C4-R-18-09		C5-35U-42-09	15.56	40.38	9.00	76	C5-R-18-09	
48	27.38	11.13	C4-35U-48-09	15.19	46.94	8.50	75	C4-R-24-09	C4-T-30-09	C5-35U-48-09	15.56	46.38	9.00	82	C5-R-24-09	C5-T-30-09
54	33.38	11.13	C4-35U-54-09	15.19	52.94	8.50	82	C4-R-30-09		C5-35U-54-09	15.56	52.38	9.00	90	C5-R-30-09	
60	39.38	11.13	C4-35U-60-09	15.19	58.94	8.88	88	C4-R-36-09		C5-35U-60-09	15.56	58.38	9.38	97	C5-R-36-09	

Belt Width	G	Gw	6" Roll Diameter						
			Part Number	E	H	K	Wt.	Replacement Center Roll	Replacement Wing Roll
24	13.25	6.75	C6-35U-24-09	12.94	24.50	9.00	55	C6-T-36-09	C6-T-18-09
30	15.44	8.94	C6-35U-30-09	14.31	30.25	9.13	66	C6-T-42-09	C6-T-24-09
36	19.75	8.94	C6-35U-36-09	14.31	34.56	9.13	72	C6-T-54-09	
42	21.38	11.13	C6-35U-42-09	16.00	39.75	9.50	83	C6-R-18-09	
48	27.38	11.13	C6-35U-48-09	16.00	45.75	9.50	90	C6-R-24-09	C6-T-30-09
54	33.38	11.13	C6-35U-54-09	16.00	51.75	9.50	99	C6-R-30-09	
60	39.38	11.13	C6-35U-60-09	16.00	57.75	9.88	107	C6-R-36-09	

Belt Width	Standard Dimensions				Wide Base	
	A	B	C	D	Aw*	Cw*
24	33	5.5	35.5	9.5	39	41.5
30	39	5.5	41.5	9.5	45	47.5
36	45	5.5	47.5	9.5	51	53.5
42	51	5.5	53.5	9.5	57	59.5
48	57	5.5	59.5	9.5	63	65.5
54	63	7	65.5	11	69	71.5
60	69	7	71.5	11	75	77.5

*Dimension not shown; for wide base.



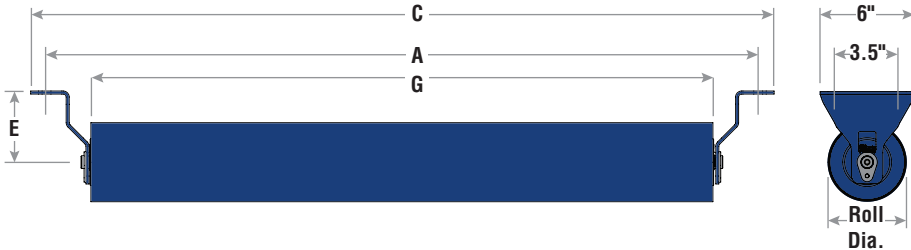
20° Unequal Impact Idlers

Belt Width	G	GW	5" Roll Diameter							6" Roll Diameter						
			Part Number	E	H	K	Wt.	Replacement Center Roll	Replacement Wing Roll	Part Number	E	H	K	Wt.	Replacement Center Roll	Replacement Wing Roll
24	15.44	5.44	C5-20UI-24	10.50	26.88	8.50	57	C5-TI-42	C5-TI-14	C6-20UI-24	11.00	26.50	9.00	62	C6-TI-42	C6-TI-14
30	21.38	5.44	C5-20UI-30	10.63	32.81	8.63	68	C5-FRD-18		C6-20UI-30	11.13	32.44	9.13	74	C6-FRD-18	
36	27.38	5.44	C5-20UI-36	10.63	38.81	8.63	78	C5-FRD-24		C6-20UI-36	11.13	38.44	9.13	85	C6-FRD-24	
42	33.38	5.44	C5-20UI-42	11.00	44.81	9.00	92	C5-FRD-30		C6-20UI-42	11.50	44.44	9.50	100	C6-FRD-30	
48	39.38	5.44	C5-20UI-48	11.00	50.81	9.00	102	C5-FRD-36		C6-20UI-48	11.50	50.44	9.50	111	C6-FRD-36	
54	45.38	5.44	C5-20UI-54	11.00	56.81	9.00	113	C5-FRD-42		C6-20UI-54	11.50	56.44	9.50	123	C6-FRD-42	
60	51.38	5.44	C5-20UI-60	11.00	62.81	9.38	123	C5-FRD-48		C6-20UI-60	11.50	62.44	9.88	134	C6-FRD-48	

35° Unequal Impact Idlers

Belt Width	G	GW	5" Roll Diameter							6" Roll Diameter						
			Part Number	E	H	K	Wt.	Replacement Center Roll	Replacement Wing Roll	Part Number	E	H	K	Wt.	Replacement Center Roll	Replacement Wing Roll
24	13.25	6.75	C5-35UI-24	12.50	25.00	8.50	59	C5-TI-36	C5-TI-18	C6-35UI-24	12.94	24.50	9.00	64	C6-TI-36	C6-TI-18
30	15.44	8.94	C5-35UI-30	13.94	30.81	8.63	72	C5-TI-42	C5-TI-24	C6-35UI-30	14.31	30.25	9.13	80	C6-TI-42	C6-TI-24
36	19.75	8.94	C5-35UI-36	13.94	35.13	8.63	80	C5-TI-54		C6-35UI-36	14.31	34.56	9.13	88	C6-TI-54	
42	21.38	11.13	C5-35UI-42	15.56	40.38	9.00	95	C5-FRD-18	C5-TI-30	C6-35UI-42	16.00	39.75	9.50	103	C6-FRD-18	C6-TI-30
48	27.38	11.13	C5-35UI-48	15.56	46.38	9.00	105	C5-FRD-24		C6-35UI-48	16.00	45.75	9.50	114	C6-FRD-24	
54	33.38	11.13	C5-35UI-54	15.56	52.38	9.00	116	C5-FRD-30		C6-35UI-54	16.00	51.75	9.50	126	C6-FRD-30	
60	39.38	11.13	C5-35UI-60	15.56	58.38	9.38	126	C5-FRD-36		C6-35UI-60	16.00	57.75	9.88	137	C6-FRD-36	

CEMA C Steel Returns



Belt Width	Standard Dimensions		
	A	C	G
18	27	29	21.38
20	29	31	23.38
24	33	35	27.38
30	39	41	33.38
36	45	47	39.38
42	51	53	45.38
48	57	59	51.38
54	63	65	57.38
60	69	71	63.38

Steel Returns (E = 1.5")

Belt Width	4" Roll Diameter			5" Roll Diameter			6" Roll Diameter		
	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll
18	C4-R-18-09-1	17	C4-R-18-09	C5-R-18-09-1	20	C5-R-18-09	C6-R-18-09-1	24	C6-R-18-09
20	C4-R-20-09-1	19	C4-R-20-09	C5-R-20-09-1	22	C5-R-20-09	C6-R-20-09-1	26	C6-R-20-09
24	C4-R-24-09-1	21	C4-R-24-09	C5-R-24-09-1	25	C5-R-24-09	C6-R-24-09-1	30	C6-R-24-09
30	C4-R-30-09-1	25	C4-R-30-09	C5-R-30-09-1	30	C5-R-30-09	C6-R-30-09-1	35	C6-R-30-09
36	C4-R-36-09-1	29	C4-R-36-09	C5-R-36-09-1	35	C5-R-36-09	C6-R-36-09-1	41	C6-R-36-09
42	C4-R-42-09-1	33	C4-R-42-09	C5-R-42-09-1	40	C5-R-42-09	C6-R-42-09-1	46	C6-R-42-09
48	C4-R-48-09-1	37	C4-R-48-09	C5-R-48-09-1	45	C5-R-48-09	C6-R-48-09-1	52	C6-R-48-09
*54	C4-R-54-09-1	42	C4-R-54-09	C5-R-54-09-1	49	C5-R-54-09	C6-R-54-09-1	57	C6-R-54-09
*60	C4-R-60-09-1	46	C4-R-60-09	C5-R-60-09-1	54	C5-R-60-09	C6-R-60-09-1	63	C6-R-60-09

Steel Returns (E = 4.5")

Belt Width	4" Roll Diameter			5" Roll Diameter			6" Roll Diameter		
	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll
18	C4-R-18-09-4	19	C4-R-18-09	C5-R-18-09-4	22	C5-R-18-09	C6-R-18-09-4	26	C6-R-18-09
20	C4-R-20-09-4	21	C4-R-20-09	C5-R-20-09-4	24	C5-R-20-09	C6-R-20-09-4	28	C6-R-20-09
24	C4-R-24-09-4	23	C4-R-24-09	C5-R-24-09-4	27	C5-R-24-09	C6-R-24-09-4	32	C6-R-24-09
30	C4-R-30-09-4	27	C4-R-30-09	C5-R-30-09-4	32	C5-R-30-09	C6-R-30-09-4	37	C6-R-30-09
36	C4-R-36-09-4	31	C4-R-36-09	C5-R-36-09-4	37	C5-R-36-09	C6-R-36-09-4	43	C6-R-36-09
42	C4-R-42-09-4	35	C4-R-42-09	C5-R-42-09-4	42	C5-R-42-09	C6-R-42-09-4	48	C6-R-42-09
48	C4-R-48-09-4	39	C4-R-48-09	C5-R-48-09-4	47	C5-R-48-09	C6-R-48-09-4	54	C6-R-48-09
*54	C4-R-54-09-4	44	C4-R-54-09	C5-R-54-09-4	51	C5-R-54-09	C6-R-54-09-4	59	C6-R-54-09
*60	C4-R-60-09-4	48	C4-R-60-09	C5-R-60-09-4	56	C5-R-60-09	C6-R-60-09-4	65	C6-R-60-09

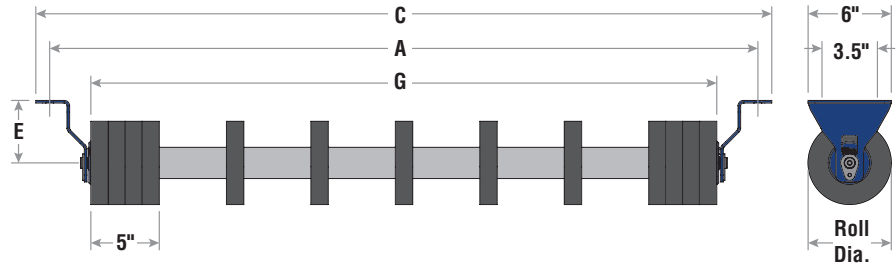
Steel Returns (E = 4.5", Belt Saver)

Belt Width	4" Roll Diameter			5" Roll Diameter			6" Roll Diameter		
	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll
18	C4-R-18-09-4S	20	C4-R-18-09	C5-R-18-09-4S	23	C5-R-18-09	C6-R-18-09-4S	27	C6-R-18-09
20	C4-R-20-09-4S	22	C4-R-20-09	C5-R-20-09-4S	25	C5-R-20-09	C6-R-20-09-4S	29	C6-R-20-09
24	C4-R-24-09-4S	24	C4-R-24-09	C5-R-24-09-4S	28	C5-R-24-09	C6-R-24-09-4S	33	C6-R-24-09
30	C4-R-30-09-4S	28	C4-R-30-09	C5-R-30-09-4S	33	C5-R-30-09	C6-R-30-09-4S	38	C6-R-30-09
36	C4-R-36-09-4S	32	C4-R-36-09	C5-R-36-09-4S	38	C5-R-36-09	C6-R-36-09-4S	44	C6-R-36-09
42	C4-R-42-09-4S	36	C4-R-42-09	C5-R-42-09-4S	43	C5-R-42-09	C6-R-42-09-4S	49	C6-R-42-09
48	C4-R-48-09-4S	40	C4-R-48-09	C5-R-48-09-4S	48	C5-R-48-09	C6-R-48-09-4S	55	C6-R-48-09
*54	C4-R-54-09-4S	45	C4-R-54-09	C5-R-54-09-4S	52	C5-R-54-09	C6-R-54-09-4S	60	C6-R-54-09
*60	C4-R-60-09-4S	49	C4-R-60-09	C5-R-60-09-4S	57	C5-R-60-09	C6-R-60-09-4S	66	C6-R-60-09

*CEMA recommends class D.

Note: Brackets Also Sold Separately (page N-65).

Belt Width	Standard Dimensions		
	A	C	G
18	27	29	21.13
20	29	31	23.13
24	33	35	27.13
30	39	41	33.13
36	45	47	39.13
42	51	53	45.13
48	57	59	51.13
54	63	65	57.13
60	69	71	63.13



Rubber Disc Returns (E = 1.5")

Belt Width	4" Roll Diameter			5" Roll Diameter			6" Roll Diameter		
	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll
18	C4-RRD-18-1	19	C4-RRD-18	C5-RRD-18-1	22	C5-RRD-18	C6-RRD-18-1	25	C6-RRD-18
20	C4-RRD-20-1	20	C4-RRD-20	C5-RRD-20-1	23	C5-RRD-20	C6-RRD-20-1	26	C6-RRD-20
24	C4-RRD-24-1	23	C4-RRD-24	C5-RRD-24-1	26	C5-RRD-24	C6-RRD-24-1	30	C6-RRD-24
30	C4-RRD-30-1	27	C4-RRD-30	C5-RRD-30-1	30	C5-RRD-30	C6-RRD-30-1	35	C6-RRD-30
36	C4-RRD-36-1	31	C4-RRD-36	C5-RRD-36-1	35	C5-RRD-36	C6-RRD-36-1	39	C6-RRD-36
42	C4-RRD-42-1	35	C4-RRD-42	C5-RRD-42-1	39	C5-RRD-42	C6-RRD-42-1	44	C6-RRD-42
48	C4-RRD-48-1	39	C4-RRD-48	C5-RRD-48-1	43	C5-RRD-48	C6-RRD-48-1	49	C6-RRD-48
*54	C4-RRD-54-1	43	C4-RRD-54	C5-RRD-54-1	48	C5-RRD-54	C6-RRD-54-1	53	C6-RRD-54
*60	C4-RRD-60-1	47	C4-RRD-60	C5-RRD-60-1	52	C5-RRD-60	C6-RRD-60-1	58	C6-RRD-60

Rubber Disc Returns (E = 4.5")

Belt Width	4" Roll Diameter			5" Roll Diameter			6" Roll Diameter		
	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll
18	C4-RRD-18-4	21	C4-RRD-18	C5-RRD-18-4	24	C5-RRD-18	C6-RRD-18-4	27	C6-RRD-18
20	C4-RRD-20-4	22	C4-RRD-20	C5-RRD-20-4	25	C5-RRD-20	C6-RRD-20-4	28	C6-RRD-20
24	C4-RRD-24-4	25	C4-RRD-24	C5-RRD-24-4	28	C5-RRD-24	C6-RRD-24-4	32	C6-RRD-24
30	C4-RRD-30-4	29	C4-RRD-30	C5-RRD-30-4	32	C5-RRD-30	C6-RRD-30-4	37	C6-RRD-30
36	C4-RRD-36-4	33	C4-RRD-36	C5-RRD-36-4	37	C5-RRD-36	C6-RRD-36-4	41	C6-RRD-36
42	C4-RRD-42-4	37	C4-RRD-42	C5-RRD-42-4	41	C5-RRD-42	C6-RRD-42-4	46	C6-RRD-42
48	C4-RRD-48-4	41	C4-RRD-48	C5-RRD-48-4	45	C5-RRD-48	C6-RRD-48-4	51	C6-RRD-48
*54	C4-RRD-54-4	45	C4-RRD-54	C5-RRD-54-4	50	C5-RRD-54	C6-RRD-54-4	55	C6-RRD-54
*60	C4-RRD-60-4	49	C4-RRD-60	C5-RRD-60-4	54	C5-RRD-60	C6-RRD-60-4	60	C6-RRD-60

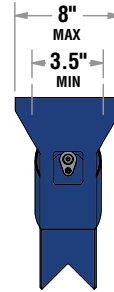
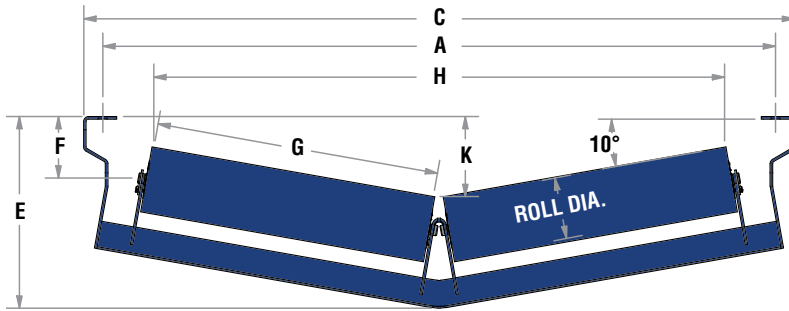
Rubber Disc Returns (E = 4.5", Belt Saver)

Belt Width	4" Roll Diameter			5" Roll Diameter			6" Roll Diameter		
	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll
18	C4-RRD-18-4S	22	C4-RRD-18	C5-RRD-18-4S	25	C5-RRD-18	C6-RRD-18-4S	28	C6-RRD-18
20	C4-RRD-20-4S	23	C4-RRD-20	C5-RRD-20-4S	26	C5-RRD-20	C6-RRD-20-4S	29	C6-RRD-20
24	C4-RRD-24-4S	26	C4-RRD-24	C5-RRD-24-4S	29	C5-RRD-24	C6-RRD-24-4S	33	C6-RRD-24
30	C4-RRD-30-4S	30	C4-RRD-30	C5-RRD-30-4S	33	C5-RRD-30	C6-RRD-30-4S	38	C6-RRD-30
36	C4-RRD-36-4S	34	C4-RRD-36	C5-RRD-36-4S	38	C5-RRD-36	C6-RRD-36-4S	42	C6-RRD-36
42	C4-RRD-42-4S	38	C4-RRD-42	C5-RRD-42-4S	42	C5-RRD-42	C6-RRD-42-4S	47	C6-RRD-42
48	C4-RRD-48-4S	42	C4-RRD-48	C5-RRD-48-4S	46	C5-RRD-48	C6-RRD-48-4S	52	C6-RRD-48
*54	C4-RRD-54-4S	46	C4-RRD-54	C5-RRD-54-4S	51	C5-RRD-54	C6-RRD-54-4S	56	C6-RRD-54
*60	C4-RRD-60-4S	50	C4-RRD-60	C5-RRD-60-4S	55	C5-RRD-60	C6-RRD-60-4S	61	C6-RRD-60

*CEMA recommends class D.

Note: Brackets Also Sold Separately (page N-65).

CEMA C Steel V>Returns



Belt Width	Standard Dimensions		
	A	C	G
24	33	35.88	13.25
30	39	41.88	17.63
36	45	47.88	19.75
42	51	53.88	21.38
48	57	59.88	26.00
54	63	65.88	28.88
60	69	71.88	31.88

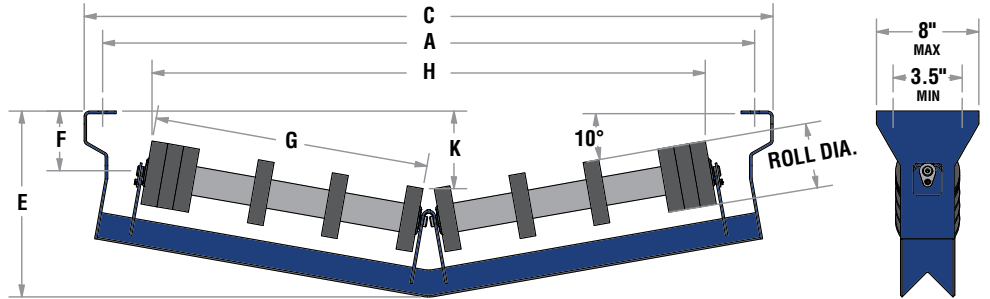
Steel V>Returns (F = 4.5")

Belt Width	5" Roll Diameter						6" Roll Diameter					
	Part Number	E	H	K	Wt.	Replacement Roll	Part Number	E	H	K	Wt.	Replacement Roll
24	C5-10V4-24-09	12.94	26.75	4.50	46	C5-T-36-09	C6-10V4-24-09	12.94	26.56	4.00	51	C6-T-36-09
30	C5-10V4-30-09	13.44	35.31	5.00	55	C5-T-48-09	C6-10V4-30-09	13.44	35.19	4.50	61	C6-T-48-09
36	C5-10V4-36-09	14.00	39.50	5.56	60	C5-T-54-09	C6-10V4-36-09	14.00	39.38	5.00	67	C6-T-54-09
42	C5-10V4-42-09	14.50	43.50	6.00	66	C5-T-60-09	C6-10V4-42-09	14.50	43.31	5.38	72	C6-T-60-09
48	C5-10V4-48-09	15.00	51.81	6.63	80	D5-T-72-09	C6-10V4-48-09	15.00	51.69	6.13	88	D6-T-72-09
54	C5-10V4-54-09	15.56	57.50	7.13	81	C5-V-54-09	C6-10V4-54-09	15.56	57.31	6.63	89	C6-V-54-09
60	C5-10V4-60-09	16.13	63.44	7.69	88	C5-V-60-09	C6-10V4-60-09	16.13	63.25	7.19	97	C6-V-60-09

Steel V>Returns (F = 7")

Belt Width	5" Roll Diameter						6" Roll Diameter					
	Part Number	E	H	K	Wt.	Replacement Roll	Part Number	E	H	K	Wt.	Replacement Roll
24	C5-10V7-24-09	15.56	26.75	7.13	48	C5-T-36-09	C6-10V7-24-09	15.56	26.56	6.63	52	C6-T-36-09
30	C5-10V7-30-09	16.06	35.31	7.63	55	C5-T-48-09	C6-10V7-30-09	16.06	35.19	7.13	61	C6-T-48-09
36	C5-10V7-36-09	16.63	39.50	8.19	62	C5-T-54-09	C6-10V7-36-09	16.63	39.38	7.69	68	C6-T-54-09
42	C5-10V7-42-09	17.13	43.50	8.69	67	C5-T-60-09	C6-10V7-42-09	17.13	43.31	8.25	74	C6-T-60-09
48	C5-10V7-48-09	17.69	51.81	9.25	82	D5-T-72-09	C6-10V7-48-09	17.69	51.69	8.75	89	D6-T-72-09
54	C5-10V7-54-09	18.19	57.50	9.75	82	C5-V-54-09	C6-10V7-54-09	18.19	57.31	9.25	91	C6-V-54-09
60	C5-10V7-60-09	18.75	63.44	10.25	89	C5-V-60-09	C6-10V7-60-09	18.75	63.25	9.81	98	C6-V-60-09

Belt Width	Standard Dimensions		
	A	C	G
24	33	35.88	13.25
30	39	41.88	17.63
36	45	47.88	19.75
42	51	53.88	21.38
48	57	59.88	26.00
54	63	65.88	28.88
60	69	71.88	31.88



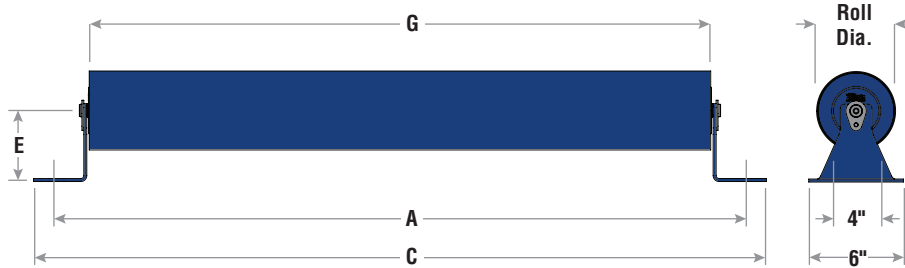
Rubber Disc V>Returns (F = 4.5")

Belt Width	5" Roll Diameter						6" Roll Diameter					
	Part Number	E	H	K	Wt.	Replacement Roll	Part Number	E	H	K	Wt.	Replacement Roll
24	C5-10VRD4-24	12.94	26.75	4.50	44	C5-VRD-24	C6-10VRD4-24	12.94	26.56	4.00	48	C6-VRD-24
30	C5-10VRD4-30	13.44	35.31	5.00	51	C5-VRD-30	C6-10VRD4-30	13.44	35.19	4.50	56	C6-VRD-30
36	C5-10VRD4-36	14.00	39.50	5.56	54	C5-VRD-36	C6-10VRD4-36	14.00	39.38	5.00	59	C6-VRD-36
42	C5-10VRD4-42	14.50	43.50	6.00	59	C5-VRD-42	C6-10VRD4-42	14.50	43.31	5.38	65	C6-VRD-42
48	C5-10VRD4-48	15.00	51.81	6.63	64	C5-VRD-48	C6-10VRD4-48	15.00	51.69	6.13	72	C6-VRD-48
54	C5-10VRD4-54	15.56	57.50	7.13	69	C5-VRD-54	C6-10VRD4-54	15.56	57.31	6.63	77	C6-VRD-54
60	C5-10VRD4-60	16.13	63.44	7.69	75	C5-VRD-60	C6-10VRD4-60	16.13	63.25	7.19	82	C6-VRD-60

Rubber Disc V>Returns (F = 7")

Belt Width	5" Roll Diameter						6" Roll Diameter					
	Part Number	E	H	K	Wt.	Replacement Roll	Part Number	E	H	K	Wt.	Replacement Roll
24	C5-10VRD7-24	15.56	26.75	7.13	46	C5-VRD-24	C6-10VRD7-24	15.56	26.56	6.63	50	C6-VRD-24
30	C5-10VRD7-30	16.06	35.31	7.63	53	C5-VRD-30	C6-10VRD7-30	16.06	35.19	7.13	58	C6-VRD-30
36	C5-10VRD7-36	16.63	39.50	8.19	56	C5-VRD-36	C6-10VRD7-36	16.63	39.38	7.69	61	C6-VRD-36
42	C5-10VRD7-42	17.13	43.50	8.69	61	C5-VRD-42	C6-10VRD7-42	17.13	43.31	8.25	67	C6-VRD-42
48	C5-10VRD7-48	17.69	51.81	9.25	66	C5-VRD-48	C6-10VRD7-48	17.69	51.69	8.75	74	C6-VRD-48
54	C5-10VRD7-54	18.19	57.50	9.75	71	C5-VRD-54	C6-10VRD7-54	18.19	57.31	9.25	79	C6-VRD-54
60	C5-10VRD7-60	18.75	63.44	10.25	77	C5-VRD-60	C6-10VRD7-60	18.75	63.25	9.81	84	C6-VRD-60

CEMA C Steel Flat Carry



Belt Width	Standard Dimensions		
	A	C	G
18	27	28.44	21.38
20	29	30.44	23.38
24	33	34.44	27.38
30	39	40.44	33.38
36	45	46.44	39.38
42	51	52.44	45.38
48	57	58.44	51.38
54	63	64.44	57.38
60	69	70.44	63.38

Steel Flat Carry (E = 1.5")

Belt Width	4" Roll Diameter			5" Roll Diameter			6" Roll Diameter		
	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll
18	C4-F-18-09-1	18	C4-R-18-09	C5-F-18-09-1	22	C5-R-18-09	C6-F-18-09-1	25	C6-R-18-09
20	C4-F-20-09-1	20	C4-R-20-09	C5-F-20-09-1	24	C5-R-20-09	C6-F-20-09-1	27	C6-R-20-09
24	C4-F-24-09-1	23	C4-R-24-09	C5-F-24-09-1	27	C5-R-24-09	C6-F-24-09-1	31	C6-R-24-09
30	C4-F-30-09-1	27	C4-R-30-09	C5-F-30-09-1	32	C5-R-30-09	C6-F-30-09-1	37	C6-R-30-09
36	C4-F-36-09-1	31	C4-R-36-09	C5-F-36-09-1	36	C5-R-36-09	C6-F-36-09-1	42	C6-R-36-09
42	C4-F-42-09-1	35	C4-R-42-09	C5-F-42-09-1	41	C5-R-42-09	C6-F-42-09-1	48	C6-R-42-09
48	C4-F-48-09-1	39	C4-R-48-09	C5-F-48-09-1	46	C5-R-48-09	C6-F-48-09-1	54	C6-R-48-09
*54	C4-F-54-09-1	43	C4-R-54-09	C5-F-54-09-1	51	C5-R-54-09	C6-F-54-09-1	59	C6-R-54-09
*60	C4-F-60-09-1	47	C4-R-60-09	C5-F-60-09-1	56	C5-R-60-09	C6-F-60-09-1	65	C6-R-60-09

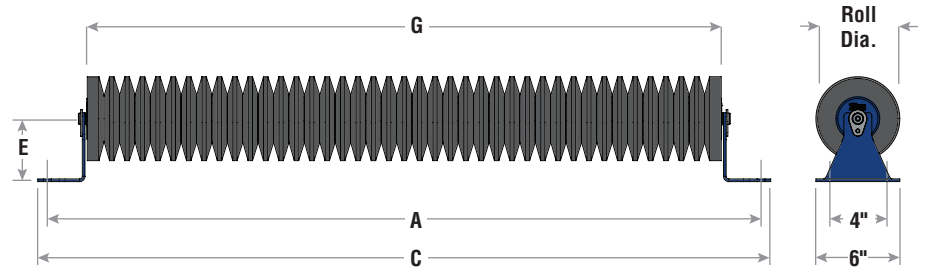
Steel Flat Carry (E = 4.5")

Belt Width	4" Roll Diameter			5" Roll Diameter			6" Roll Diameter		
	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll
18	C4-F-18-09-4	20	C4-R-18-09	C5-F-18-09-4	23	C5-R-18-09	C6-F-18-09-4	26	C6-R-18-09
20	C4-F-20-09-4	21	C4-R-20-09	C5-F-20-09-4	25	C5-R-20-09	C6-F-20-09-4	28	C6-R-20-09
24	C4-F-24-09-4	24	C4-R-24-09	C5-F-24-09-4	28	C5-R-24-09	C6-F-24-09-4	32	C6-R-24-09
30	C4-F-30-09-4	28	C4-R-30-09	C5-F-30-09-4	33	C5-R-30-09	C6-F-30-09-4	38	C6-R-30-09
36	C4-F-36-09-4	32	C4-R-36-09	C5-F-36-09-4	37	C5-R-36-09	C6-F-36-09-4	43	C6-R-36-09
42	C4-F-42-09-4	36	C4-R-42-09	C5-F-42-09-4	42	C5-R-42-09	C6-F-42-09-4	49	C6-R-42-09
48	C4-F-48-09-4	40	C4-R-48-09	C5-F-48-09-4	47	C5-R-48-09	C6-F-48-09-4	55	C6-R-48-09
*54	C4-F-54-09-4	44	C4-R-54-09	C5-F-54-09-4	52	C5-R-54-09	C6-F-54-09-4	60	C6-R-54-09
*60	C4-F-60-09-4	48	C4-R-60-09	C5-F-60-09-4	57	C5-R-60-09	C6-F-60-09-4	66	C6-R-60-09

*CEMA recommends class D.

Note: Brackets Also Sold Separately (page N-65).

Belt Width	Standard Dimensions		
	A	C	G
18	27	28.44	21.38
20	29	30.44	23.38
24	33	34.44	27.38
30	39	40.44	33.38
36	45	46.44	39.38
42	51	52.44	45.38
48	57	58.44	51.38
54	63	64.44	57.38
60	69	70.44	63.38



Impact Flat Carry (E = 1.5")

Belt Width	5" Roll Diameter			6" Roll Diameter		
	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll
18	C5-FRD-18-1	24	C5-FRD-18	C6-FRD-18-1	28	C6-FRD-18
20	C5-FRD-20-1	26	C5-FRD-20	C6-FRD-20-1	30	C6-FRD-20
24	C5-FRD-24-1	30	C5-FRD-24	C6-FRD-24-1	35	C6-FRD-24
30	C5-FRD-30-1	36	C5-FRD-30	C6-FRD-30-1	42	C6-FRD-30
36	C5-FRD-36-1	42	C5-FRD-36	C6-FRD-36-1	49	C6-FRD-36
42	C5-FRD-42-1	48	C5-FRD-42	C6-FRD-42-1	56	C6-FRD-42
48	C5-FRD-48-1	54	C5-FRD-48	C6-FRD-48-1	63	C6-FRD-48
*54	C5-FRD-54-1	60	C5-FRD-54	C6-FRD-54-1	70	C6-FRD-54
*60	C5-FRD-60-1	67	C5-FRD-60	C6-FRD-60-1	77	C6-FRD-60

Impact Flat Carry (E = 4.5")

Belt Width	5" Roll Diameter			6" Roll Diameter		
	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll
18	C5-FRD-18-4	25	C5-FRD-18	C6-FRD-18-4	29	C6-FRD-18
20	C5-FRD-20-4	27	C5-FRD-20	C6-FRD-20-4	31	C6-FRD-20
24	C5-FRD-24-4	31	C5-FRD-24	C6-FRD-24-4	36	C6-FRD-24
30	C5-FRD-30-4	37	C5-FRD-30	C6-FRD-30-4	43	C6-FRD-30
36	C5-FRD-36-4	43	C5-FRD-36	C6-FRD-36-4	50	C6-FRD-36
42	C5-FRD-42-4	49	C5-FRD-42	C6-FRD-42-4	57	C6-FRD-42
48	C5-FRD-48-4	55	C5-FRD-48	C6-FRD-48-4	64	C6-FRD-48
*54	C5-FRD-54-4	61	C5-FRD-54	C6-FRD-54-4	71	C6-FRD-54
*60	C5-FRD-60-4	68	C5-FRD-60	C6-FRD-60-4	78	C6-FRD-60

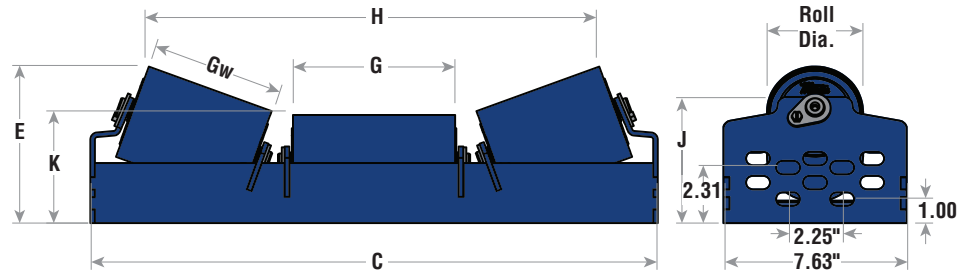
*CEMA recommends class D.

Note: Brackets Also Sold Separately (page N-65).

CEMA C Steel Channel Inset Idlers



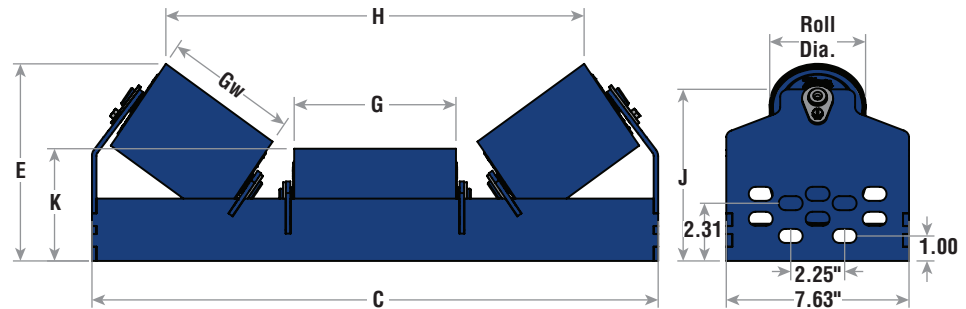
Belt Width	Standard Dimensions		
	C	G	GW
18	23.63	6.75	5.44
24	29.63	8.94	7.63
30	35.63	11.13	8.94
36	41.63	13.25	11.13
42	47.63	15.44	13.25
48	53.63	17.63	15.44
54	59.63	19.75	17.63
60	65.63	21.75	19.75



20° Steel Channel Inset Idlers

Belt Width	4" Roll Diameter							5" Roll Diameter								
	Part Number	E	H	K	J	Wt.	Replacement Roll		Part Number	E	H	K	J	Wt.	Replacement Roll	
							Center Roll	Wing Roll							Center Roll	Wing Roll
18	C4-20CT-18-09	6.50	18.51	4.5	5.23	30.04	C4-T-18-09	C4-T-14-09	C5-20CT-18-09	6.97	18.17	5	5.23	33.53	C5-T-18-09	C4-T-14-09
24	C4-20CT-24-09	7.24	24.81		5.98	36.04	C4-T-24-09	C4-T-20-09	C5-20CT-24-09	7.71	24.47		5.98	40.39	C5-T-24-09	C5-T-20-09
30	C4-20CT-30-09	7.69	29.46		6.43	41.53	C4-T-30-09	C4-T-24-09	C5-20CT-30-09	8.16	29.12		6.43	46.51	C5-T-30-09	C5-T-24-09
36	C4-20CT-36-09	8.44	35.70		7.17	47.99	C4-T-36-09	C4-T-30-09	C5-20CT-36-09	8.91	35.36		7.17	53.81	C5-T-36-09	C5-T-30-09
42	C4-20CT-42-09	9.17	41.88		7.90	54.40	C4-T-42-09	C4-T-36-09	C5-20CT-42-09	9.64	41.54		7.9	61.05	C5-T-42-09	C5-T-36-09
48	C4-20CT-48-09	9.92	48.18		8.65	60.88	C4-T-48-09	C4-T-42-09	C5-20CT-48-09	10.39	47.84		8.65	68.39	C5-T-48-09	C5-T-42-09
54	C4-20CT-54-09	10.66	54.42		9.40	67.33	C4-T-54-09	C4-T-48-09	C5-20CT-54-09	11.13	54.07		9.4	75.69	C5-T-54-09	C5-T-48-09
60	C4-20CT-60-09	11.39	60.41		10.12	73.67	C4-T-60-09	C4-T-54-09	C5-20CT-60-09	11.86	60.07		10.12	82.84	C5-T-60-09	C5-T-54-09

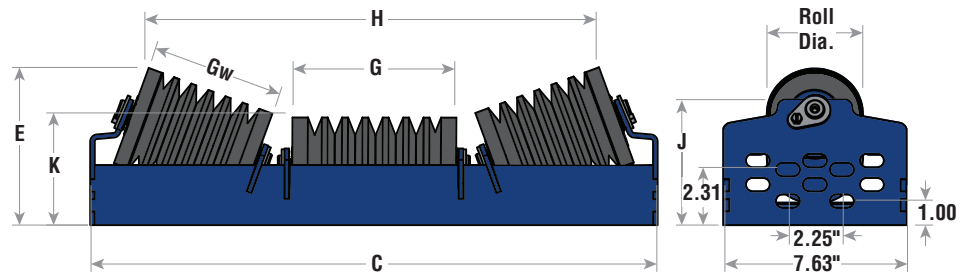
Belt Width	Standard Dimensions		
	C	G	GW
18	23.63	6.75	5.44
24	29.63	8.94	7.63
30	35.63	11.13	8.94
36	41.63	13.25	11.13
42	47.63	15.44	13.25
48	53.63	17.63	15.44
54	59.63	19.75	17.63
60	65.63	21.75	19.75



35° Steel Channel Inset Idlers

Belt Width	4" Roll Diameter							5" Roll Diameter								
	Part Number	E	H	K	J	Wt.	Replacement Roll		Part Number	E	H	K	J	Wt.	Replacement Roll	
							Center Roll	Wing Roll							Center Roll	Wing Roll
18	C4-35CT-18-09	7.81	17.41	4.5	6.89	31.67	C4-T-18-09	C4-T-14-09	C5-35CT-18-09	8.19	16.88	5	6.89	35.16	C5-T-18-09	C4-T-14-09
24	C4-35CT-24-09	9.61	23.18		8.14	38.87	C4-T-24-09	C4-T-20-09	C5-35CT-24-09	9.44	22.66		8.14	43.22	C5-T-24-09	C5-T-20-09
30	C4-35CT-30-09	9.82	27.52		8.89	44.69	C4-T-30-09	C4-T-24-09	C5-35CT-30-09	10.19	26.99		8.89	49.66	C5-T-30-09	C5-T-24-09
36	C4-35CT-36-09	11.08	33.23		10.15	51.86	C4-T-36-09	C4-T-30-09	C5-35CT-36-09	11.45	32.70		10.15	57.68	C5-T-36-09	C5-T-30-09
42	C4-35CT-42-09	12.30	38.90		11.37	58.96	C4-T-42-09	C4-T-36-09	C5-35CT-42-09	12.67	38.37		11.37	65.62	C5-T-42-09	C5-T-36-09
48	C4-35CT-48-09	13.55	44.67		12.62	66.16	C4-T-48-09	C4-T-42-09	C5-35CT-48-09	13.92	44.14		12.62	73.67	C5-T-48-09	C5-T-42-09
54	C4-35CT-54-09	14.80	50.38		13.88	73.33	C4-T-54-09	C4-T-48-09	C5-35CT-54-09	15.18	49.85		13.88	81.68	C5-T-54-09	C5-T-48-09
60	C4-35CT-60-09	16.02	55.86		15.09	80.33	C4-T-60-09	C4-T-54-09	C5-35CT-60-09	16.40	55.33		15.09	89.50	C5-T-60-09	C5-T-54-09

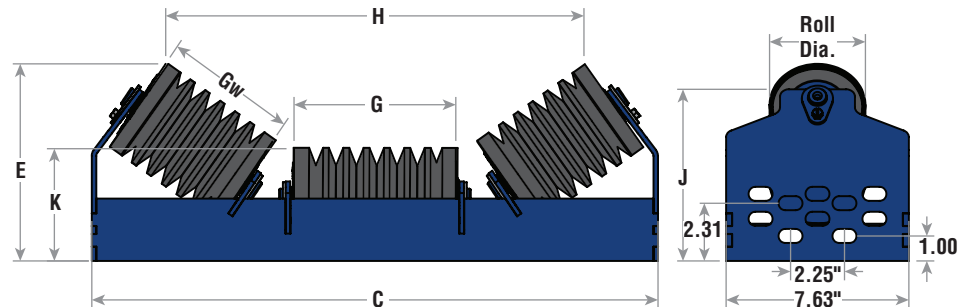
Belt Width	Standard Dimensions		
	C	G	GW
18	23.63	6.75	5.44
24	29.63	8.94	7.63
30	35.63	11.13	8.94
36	41.63	13.25	11.13
42	47.63	15.44	13.25
48	53.63	17.63	15.44
54	59.63	19.75	17.63
60	65.63	21.75	19.75



20° Impact Channel Inset Idlers

Belt Width	4" Roll Diameter							5" Roll Diameter								
	Part Number	E	H	K	J	Wt.	Replacement Roll		Part Number	E	H	K	J	Wt.	Replacement Roll	
							Center Roll	Wing Roll							Center Roll	Wing Roll
18	C4-20CTI-18	6.50	18.51	4.5	5.23	39.89	C4-TI-18	C4-TI-14	C5-20CTI-18	6.97	18.17	5	5.23	40.86	C5-TI-18	C5-TI-14
24	C4-20CTI-24	7.24	24.81		5.98	48.13	C4-TI-24	C4-TI-20	C5-20CTI-24	7.71	24.47		5.98	51.85	C5-TI-24	C5-TI-20
30	C4-20CTI-30	7.69	29.46		6.43	56.41	C4-TI-30	C4-TI-24	C5-20CTI-30	8.16	29.12		6.43	61.21	C5-TI-30	C5-TI-24
36	C4-20CTI-36	8.44	35.70		7.17	66.62	C4-TI-36	C4-TI-30	C5-20CTI-36	8.91	35.36		7.17	71.74	C5-TI-36	C5-TI-30
42	C4-20CTI-42	9.17	41.88		7.90	76.47	C4-TI-42	C4-TI-36	C5-20CTI-42	9.64	41.54		7.90	82.88	C5-TI-42	C5-TI-36
48	C4-20CTI-48	9.92	48.18		8.65	86.48	C4-TI-48	C4-TI-42	C5-20CTI-48	10.39	47.84		8.65	93.69	C5-TI-48	C5-TI-42
54	C4-20CTI-54	10.66	54.42		9.40	96.41	C4-TI-54	C4-TI-48	C5-20CTI-54	11.13	54.07		9.40	104.93	C5-TI-54	C5-TI-48
60	C4-20CTI-60	11.39	60.41		10.12	106.08	C4-TI-60	C4-TI-54	C5-20CTI-60	11.86	60.07		10.12	115.36	C5-TI-60	C5-TI-54

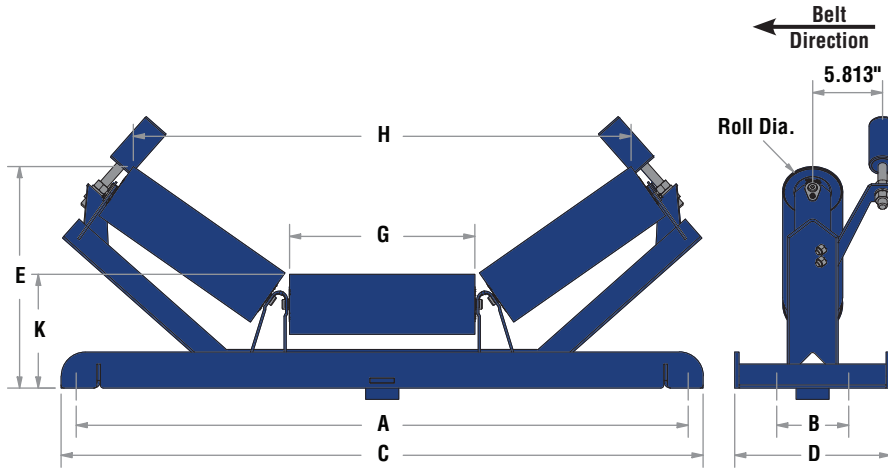
Belt Width	Standard Dimensions		
	C	G	GW
18	23.63	6.75	5.44
24	29.63	8.94	7.63
30	35.63	11.13	8.94
36	41.63	13.25	11.13
42	47.63	15.44	13.25
48	53.63	17.63	15.44
54	59.63	19.75	17.63
60	65.63	21.75	19.75



35° Impact Channel Inset Idlers

Belt Width	4" Roll Diameter							5" Roll Diameter								
	Part Number	E	H	K	J	Wt.	Replacement Roll		Part Number	E	H	K	J	Wt.	Replacement Roll	
							Center Roll	Wing Roll							Center Roll	Wing Roll
18	C4-35CTI-18	7.81	17.41	4.5	6.89	43.15	C4-TI-18	C4-TI-14	C5-35CTI-18	8.19	16.88	5	6.89	44.12	C5-TI-18	C5-TI-14
24	C4-35CTI-24	9.61	23.18		8.14	53.79	C4-TI-24	C4-TI-20	C5-35CTI-24	9.44	22.66		8.14	57.51	C5-TI-24	C5-TI-20
30	C4-35CTI-30	9.82	27.52		8.89	62.73	C4-TI-30	C4-TI-24	C5-35CTI-30	10.19	26.99		8.89	67.51	C5-TI-30	C5-TI-24
36	C4-35CTI-36	11.08	33.23		10.15	74.36	C4-TI-36	C4-TI-30	C5-35CTI-36	11.45	32.70		10.15	79.48	C5-TI-36	C5-TI-30
42	C4-35CTI-42	12.30	38.90		11.37	85.59	C4-TI-42	C4-TI-36	C5-35CTI-42	12.67	38.37		11.37	92.02	C5-TI-42	C5-TI-36
48	C4-35CTI-48	13.55	44.67		12.62	97.04	C4-TI-48	C4-TI-42	C5-35CTI-48	13.92	44.14		12.62	104.25	C5-TI-48	C5-TI-42
54	C4-35CTI-54	14.80	50.38		13.88	108.41	C4-TI-54	C4-TI-48	C5-35CTI-54	15.18	49.85		13.88	116.91	C5-TI-54	C5-TI-48
60	C4-35CTI-60	16.02	55.86		15.09	119.40	C4-TI-60	C4-TI-54	C5-35CTI-60	16.40	55.33		15.09	128.68	C5-TI-60	C5-TI-54

CEMA C Equal Steel Idler Self-Aligners



Belt Width	Standard Dimensions					Wide Base	
	A	B	C	D	G	Aw*	Cw*
18	27	3.69	29.5	13	6.75	33	31.5
20	29	3.69	31.5	13	7.63	35	35.5
24	33	3.69	35.5	13	8.94	39	41.5
30	39	3.69	41.5	13	11.13	45	47.5
36	45	3.69	47.5	13	13.25	51	53.5
42	51	3.69	53.5	13	15.44	57	59.5
48	57	3.69	59.5	13	17.63	63	65.5
54	63	3.69	65.5	13	19.75	69	71.5
60	69	3.69	71.5	13	21.75	75	77.5

*Dimension not shown; for wide base.

20° Equal Steel Idler Self-Aligners

Belt Width	4" Roll Diameter						5" Roll Diameter					
	Part Number	E	H	K	Wt.	Replacement Roll	Part Number	E	H	K	Wt.	Replacement Roll
18	C4-20TSA-18-09	11.44	21.00	9	83	C4-T-18-09	C5-20TSA-18-09	11.94	20.63	9.5	87	C5-T-18-09
20	C4-20TSA-20-09	11.75	23.50	9	87	C4-T-20-09	C5-20TSA-20-09	12.25	23.13	9.5	92	C5-T-20-09
24	C4-20TSA-24-09	12.19	27.25	9	94	C4-T-24-09	C5-20TSA-24-09	12.69	26.94	9.5	99	C5-T-24-09
30	C4-20TSA-30-09	12.94	33.56	9	105	C4-T-30-09	C5-20TSA-30-09	13.44	33.25	9.5	111	C5-T-30-09
36	C4-20TSA-36-09	13.69	39.69	9	116	C4-T-36-09	C5-20TSA-36-09	14.13	39.31	9.5	122	C5-T-36-09
42	C4-20TSA-42-09	14.44	46.00	9	127	C4-T-42-09	C5-20TSA-42-09	14.88	45.63	9.5	134	C5-T-42-09
48	C4-20TSA-48-09	15.19	52.25	9	138	C4-T-48-09	C5-20TSA-48-09	15.63	51.94	9.5	146	C5-T-48-09
54	C4-20TSA-54-09	15.88	58.38	9	148	C4-T-54-09	C5-20TSA-54-09	16.38	58.06	9.5	157	C5-T-54-09
60	C4-20TSA-60-09	16.56	64.13	9	158	C4-T-60-09	C5-20TSA-60-09	17.06	63.81	9.5	168	C5-T-60-09

Belt Width	6" Roll Diameter					
	Part Number	E	H	K	Wt.	Replacement Roll
18	C6-20TSA-18-09	12.38	20.25	10	91	C6-T-18-09
20	C6-20TSA-20-09	12.69	22.81	10	96	C6-T-20-09
24	C6-20TSA-24-09	13.13	26.56	10	104	C6-T-24-09
30	C6-20TSA-30-09	13.88	32.88	10	116	C6-T-30-09
36	C6-20TSA-36-09	14.63	39.00	10	129	C6-T-36-09
42	C6-20TSA-42-09	15.38	45.31	10	141	C6-T-42-09
48	C6-20TSA-48-09	16.13	51.56	10	154	C6-T-48-09
54	C6-20TSA-54-09	16.81	57.69	10	166	C6-T-54-09
60	C6-20TSA-60-09	17.50	63.44	10	178	C6-T-60-09

Shoe-Type Self-Aligner Available



CEMA C Equal Steel Idler Self-Aligners

35° Equal Steel Idler Self-Aligners

Belt Width	4" Roll Diameter					Replacement Roll	5" Roll Diameter					Replacement Roll
	Part Number	E	H	K	Wt.		Part Number	E	H	K	Wt.	
18	C4-35TSA-18-09	13.06	19.13	9	85	C4-T-18-09	C5-35TSA-18-09	13.44	18.56	9.5	89	C5-T-18-09
20	C4-35TSA-20-09	13.56	21.44	9	90	C4-T-20-09	C5-35TSA-20-09	13.94	20.88	9.5	94	C5-T-20-09
24	C4-35TSA-24-09	14.31	24.94	9	96	C4-T-24-09	C5-35TSA-24-09	14.69	24.31	9.5	101	C5-T-24-09
30	C4-35TSA-30-09	15.56	30.69	9	107	C4-T-30-09	C5-35TSA-30-09	16.00	30.13	9.5	113	C5-T-30-09
36	C4-35TSA-36-09	16.81	36.31	9	118	C4-T-36-09	C5-35TSA-36-09	17.19	35.69	9.5	124	C5-T-36-09
42	C4-35TSA-42-09	18.06	42.06	9	129	C4-T-42-09	C5-35TSA-42-09	18.44	41.50	9.5	136	C5-T-42-09
48	C4-35TSA-48-09	19.31	47.81	9	140	C4-T-48-09	C5-35TSA-48-09	19.69	47.25	9.5	148	C5-T-48-09
54	C4-35TSA-54-09	20.50	53.44	9	150	C4-T-54-09	C5-35TSA-54-09	20.98	52.88	9.5	159	C5-T-54-09
60	C4-35TSA-60-09	21.69	58.69	9	160	C4-T-60-09	C5-35TSA-60-09	22.06	58.13	9.5	170	C5-T-60-09

Belt Width	6" Roll Diameter					Replacement Roll
	Part Number	E	H	K	Wt.	
18	C6-35TSA-18-09	13.88	18.00	10	93	C6-T-18-09
20	C6-35TSA-20-09	14.38	20.31	10	98	C6-T-20-09
24	C6-35TSA-24-09	15.13	23.75	10	106	C6-T-24-09
30	C6-35TSA-30-09	16.38	29.50	10	119	C6-T-30-09
36	C6-35TSA-36-09	17.63	35.13	10	131	C6-T-36-09
42	C6-35TSA-42-09	18.88	40.94	10	144	C6-T-42-09
48	C6-35TSA-48-09	20.13	46.69	10	156	C6-T-48-09
54	C6-35TSA-54-09	21.31	52.31	10	168	C6-T-54-09
60	C6-35TSA-60-09	22.50	57.56	10	180	C6-T-60-09

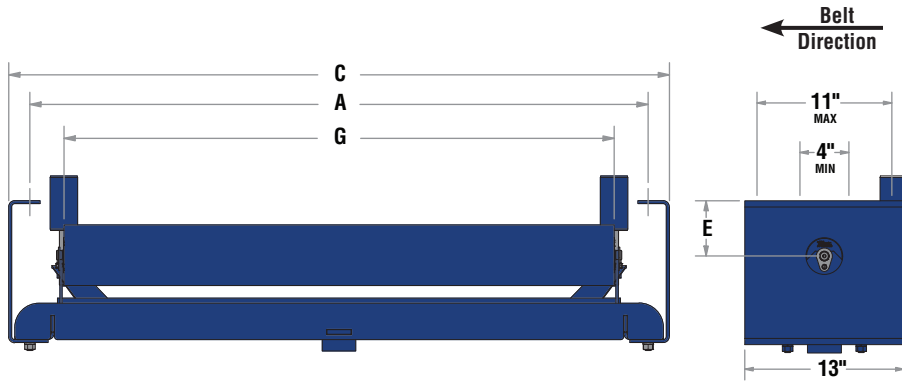
45° Equal Steel Idler Self-Aligners

Belt Width	4" Roll Diameter					Replacement Roll	5" Roll Diameter					Replacement Roll
	Part Number	E	H	K	Wt.		Part Number	E	H	K	Wt.	
18	C4-45TSA-18-09	14.13	17.94	9	87	C4-T-18-09	C5-45TSA-18-09	14.44	17.25	9.5	91	C5-T-18-09
20	C4-45TSA-20-09	14.69	20.06	9	91	C4-T-20-09	C5-45TSA-20-09	15.06	19.31	9.5	95	C5-T-20-09
24	C4-45TSA-24-09	15.63	23.25	9	98	C4-T-24-09	C5-45TSA-24-09	16.00	22.50	9.5	102	C5-T-24-09
30	C4-45TSA-30-09	17.19	28.50	9	109	C4-T-30-09	C5-45TSA-30-09	17.56	27.75	9.5	114	C5-T-30-09
36	C4-45TSA-36-09	18.69	33.63	9	119	C4-T-36-09	C5-45TSA-36-09	19.06	32.94	9.5	126	C5-T-36-09
42	C4-45TSA-42-09	20.25	38.94	9	130	C4-T-42-09	C5-45TSA-42-09	20.63	38.25	9.5	137	C5-T-42-09
48	C4-45TSA-48-09	21.75	44.19	9	141	C4-T-48-09	C5-45TSA-48-09	22.13	43.50	9.5	149	C5-T-48-09
54	C4-45TSA-54-09	23.25	49.31	9	152	C4-T-54-09	C5-45TSA-54-09	23.63	48.63	9.5	161	C5-T-54-09
60	C4-45TSA-60-09	24.69	54.13	9	162	C4-T-60-09	C5-45TSA-60-09	25.06	53.38	9.5	172	C5-T-60-09

Belt Width	6" Roll Diameter					Replacement Roll
	Part Number	E	H	K	Wt.	
18	C6-45TSA-18-09	14.81	16.50	10	95	C6-T-18-09
20	C6-45TSA-20-09	15.44	18.63	10	99	C6-T-20-09
24	C6-45TSA-24-09	16.31	21.81	10	107	C6-T-24-09
30	C6-45TSA-30-09	17.88	27.06	10	120	C6-T-30-09
36	C6-45TSA-36-09	19.38	32.25	10	133	C6-T-36-09
42	C6-45TSA-42-09	20.94	37.50	10	145	C6-T-42-09
48	C6-45TSA-48-09	22.50	42.75	10	158	C6-T-48-09
54	C6-45TSA-54-09	24.00	47.94	10	170	C6-T-54-09
60	C6-45TSA-60-09	25.44	52.75	10	182	C6-T-60-09

Shoe-Type Self-Aligner Available

CEMA C Steel Return Self-Aligners



Belt Width	Standard Dimensions			Wide Base	
	A	C	G	Aw*	Cw*
18	27	30.5	21.38	33	32.5
20	29	32.5	23.38	35	36.5
24	33	36.5	27.38	39	42.5
30	39	42.5	33.38	45	48.5
36	45	48.5	39.38	51	54.5
42	51	54.5	45.38	57	60.5
48	57	60.5	51.38	63	66.5
54	63	66.5	57.38	69	72.5
60	69	72.5	63.38	75	78.5

*Dimension not shown; for wide base.

Steel Return Self-Aligners (E = 1.5")

Belt Width	4" Roll Diameter			5" Roll Diameter			6" Roll Diameter		
	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll
18	C4-RSA1-18-09	100	C4-R-18-09	C5-RSA1-18-09	103	C5-R-18-09	C6-RSA1-18-09	107	C6-R-18-09
20	C4-RSA1-20-09	103	C4-R-20-09	C5-RSA1-20-09	107	C5-R-20-09	C6-RSA1-20-09	111	C6-R-20-09
24	C4-RSA1-24-09	110	C4-R-24-09	C5-RSA1-24-09	114	C5-R-24-09	C6-RSA1-24-09	118	C6-R-24-09
30	C4-RSA1-30-09	121	C4-R-30-09	C5-RSA1-30-09	126	C5-R-30-09	C6-RSA1-30-09	131	C6-R-30-09
36	C4-RSA1-36-09	131	C4-R-36-09	C5-RSA1-36-09	137	C5-R-36-09	C6-RSA1-36-09	142	C6-R-36-09
42	C4-RSA1-42-09	142	C4-R-42-09	C5-RSA1-42-09	148	C5-R-42-09	C6-RSA1-42-09	154	C6-R-42-09
48	C4-RSA1-48-09	152	C4-R-48-09	C5-RSA1-48-09	159	C5-R-48-09	C6-RSA1-48-09	166	C6-R-48-09
*54	C4-RSA1-54-09	162	C4-R-54-09	C5-RSA1-54-09	170	C5-R-54-09	C6-RSA1-54-09	178	C6-R-54-09
*60	C4-RSA1-60-09	173	C4-R-60-09	C5-RSA1-60-09	181	C5-R-60-09	C6-RSA1-60-09	190	C6-R-60-09

Steel Return Self-Aligners (E = 4.5")

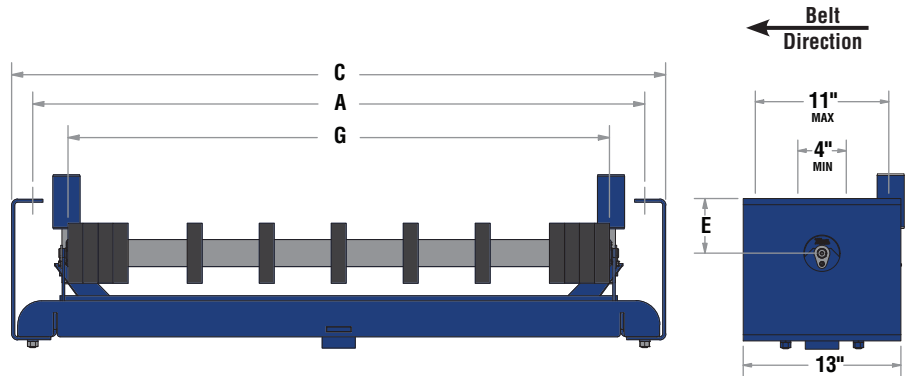
Belt Width	4" Roll Diameter			5" Roll Diameter			6" Roll Diameter		
	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll
18	C4-RSA4-18-09	105	C4-R-18-09	C5-RSA4-18-09	108	C5-R-18-09	C6-RSA4-18-09	111	C6-R-18-09
20	C4-RSA4-20-09	108	C4-R-20-09	C5-RSA4-20-09	112	C5-R-20-09	C6-RSA4-20-09	115	C6-R-20-09
24	C4-RSA4-24-09	115	C4-R-24-09	C5-RSA4-24-09	119	C5-R-24-09	C6-RSA4-24-09	123	C6-R-24-09
30	C4-RSA4-30-09	126	C4-R-30-09	C5-RSA4-30-09	130	C5-R-30-09	C6-RSA4-30-09	135	C6-R-30-09
36	C4-RSA4-36-09	136	C4-R-36-09	C5-RSA4-36-09	142	C5-R-36-09	C6-RSA4-36-09	147	C6-R-36-09
42	C4-RSA4-42-09	146	C4-R-42-09	C5-RSA4-42-09	153	C5-R-42-09	C6-RSA4-42-09	159	C6-R-42-09
48	C4-RSA4-48-09	157	C4-R-48-09	C5-RSA4-48-09	164	C5-R-48-09	C6-RSA4-48-09	171	C6-R-48-09
*54	C4-RSA4-54-09	167	C4-R-54-09	C5-RSA4-54-09	175	C5-R-54-09	C6-RSA4-54-09	183	C6-R-54-09
*60	C4-RSA4-60-09	177	C4-R-60-09	C5-RSA4-60-09	186	C5-R-60-09	C6-RSA4-60-09	195	C6-R-60-09

*CEMA recommends Class D

Shoe-Type Self-Aligner Available

Belt Width	Standard Dimensions			Wide Base	
	A	C	G	Aw*	Cw*
18	27	30.5	21.13	33	36.5
20	29	32.5	23.13	35	38.5
24	33	36.5	27.13	39	42.5
30	39	42.5	33.13	45	48.5
36	45	48.5	39.13	51	54.5
42	51	54.5	45.13	57	60.5
48	57	60.5	51.13	63	66.5
54	63	66.5	57.13	69	72.5
60	69	72.5	63.13	75	78.5

*Dimension not shown; for wide base.



Rubber Disc Return Self-Aligners (E = 1.5")

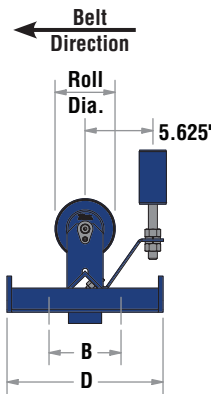
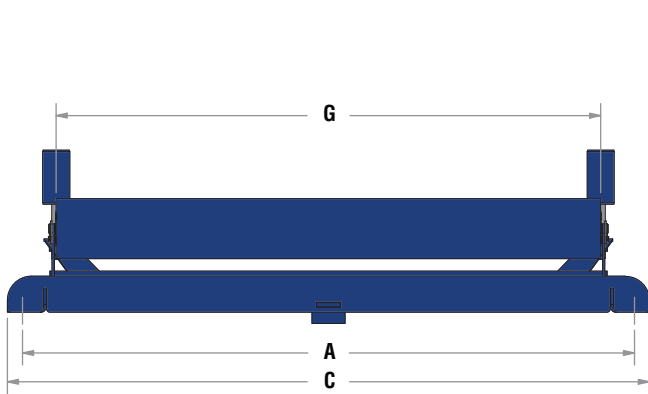
Belt Width	4" Roll Diameter			5" Roll Diameter			6" Roll Diameter		
	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll
18	C4-RRDSA1-18	100	C4-RRD-18	C5-RRDSA1-18	103	C5-RRD-18	C6-RRDSA1-18	106	C6-RRD-18
20	C4-RRDSA1-20	104	C4-RRD-20	C5-RRDSA1-20	106	C5-RRD-20	C6-RRDSA1-20	110	C6-RRD-20
24	C4-RRDSA1-24	111	C4-RRD-24	C5-RRDSA1-24	114	C5-RRD-24	C6-RRDSA1-24	117	C6-RRD-24
30	C4-RRDSA1-30	121	C4-RRD-30	C5-RRDSA1-30	124	C5-RRD-30	C6-RRDSA1-30	128	C6-RRD-30
36	C4-RRDSA1-36	131	C4-RRD-36	C5-RRDSA1-36	135	C5-RRD-36	C6-RRDSA1-36	139	C6-RRD-36
42	C4-RRDSA1-42	142	C4-RRD-42	C5-RRDSA1-42	146	C5-RRD-42	C6-RRDSA1-42	150	C6-RRD-42
48	C4-RRDSA1-48	152	C4-RRD-48	C5-RRDSA1-48	156	C5-RRD-48	C6-RRDSA1-48	161	C6-RRD-48
*54	C4-RRDSA1-54	162	C4-RRD-54	C5-RRDSA1-54	167	C5-RRD-54	C6-RRDSA1-54	172	C6-RRD-54
*60	C4-RRDSA1-60	173	C4-RRD-60	C5-RRDSA1-60	177	C5-RRD-60	C6-RRDSA1-60	183	C6-RRD-60

Rubber Disc Return Self-Aligners (E = 4.5")

Belt Width	4" Roll Diameter			5" Roll Diameter			6" Roll Diameter		
	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll
18	C4-RRDSA4-18	105	C4-RRD-18	C5-RRDSA4-18	108	C5-RRD-18	C6-RRDSA4-18	111	C6-RRD-18
20	C4-RRDSA4-20	108	C4-RRD-20	C5-RRDSA4-20	111	C5-RRD-20	C6-RRDSA4-20	114	C6-RRD-20
24	C4-RRDSA4-24	115	C4-RRD-24	C5-RRDSA4-24	118	C5-RRD-24	C6-RRDSA4-24	122	C6-RRD-24
30	C4-RRDSA4-30	126	C4-RRD-30	C5-RRDSA4-30	129	C5-RRD-30	C6-RRDSA4-30	133	C6-RRD-30
36	C4-RRDSA4-36	136	C4-RRD-36	C5-RRDSA4-36	140	C5-RRD-36	C6-RRDSA4-36	144	C6-RRD-36
42	C4-RRDSA4-42	146	C4-RRD-42	C5-RRDSA4-42	150	C5-RRD-42	C6-RRDSA4-42	155	C6-RRD-42
48	C4-RRDSA4-48	157	C4-RRD-48	C5-RRDSA4-48	161	C5-RRD-48	C6-RRDSA4-48	166	C6-RRD-48
*54	C4-RRDSA4-54	167	C4-RRD-54	C5-RRDSA4-54	172	C5-RRD-54	C6-RRDSA4-54	177	C6-RRD-54
*60	C4-RRDSA4-60	177	C4-RRD-60	C5-RRDSA4-60	182	C5-RRD-60	C6-RRDSA4-60	188	C6-RRD-60

*CEMA recommends Class D

CEMA C Flat Carry Self-Aligners

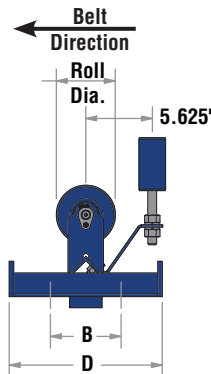
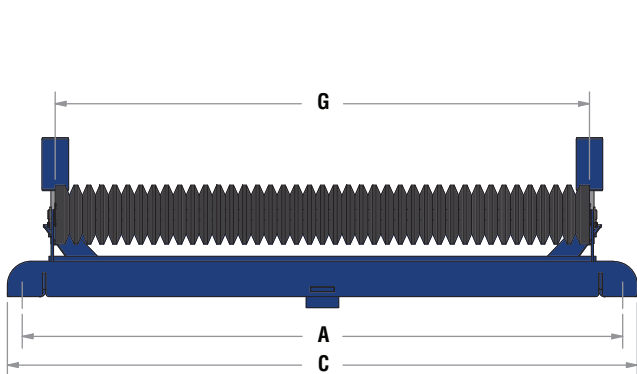


Belt Width	Standard Dimensions					Wide Base	
	A	B	C	D	G	Aw*	Cw*
18	27	3.69	29.5	13	21.38	33	35.5
20	29	3.69	31.5	13	23.38	35	37.5
24	33	3.69	35.5	13	27.38	39	41.5
30	39	3.69	41.5	13	33.38	45	47.5
36	45	3.69	47.5	13	39.38	51	53.5
42	51	3.69	53.5	13	45.38	57	59.5
48	57	3.69	59.5	13	51.38	63	65.5
54	63	3.69	65.5	13	57.38	69	71.5
60	69	3.69	71.5	13	63.38	75	77.5

Steel Flat Carry Self-Aligners

Belt Width	4" Roll Diameter			5" Roll Diameter			6" Roll Diameter		
	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll
18	C4-FSA-18-09	75	C4-R-18-09	C5-FSA-18-09	78	C5-R-18-09	C6-FSA-18-09	81	C6-R-18-09
20	C4-FSA-20-09	78	C4-R-20-09	C5-FSA-20-09	82	C5-R-20-09	C6-FSA-20-09	85	C6-R-20-09
24	C4-FSA-24-09	85	C4-R-24-09	C5-FSA-24-09	89	C5-R-24-09	C6-FSA-24-09	93	C6-R-24-09
30	C4-FSA-30-09	95	C4-R-30-09	C5-FSA-30-09	100	C5-R-30-09	C6-FSA-30-09	105	C6-R-30-09
36	C4-FSA-36-09	106	C4-R-36-09	C5-FSA-36-09	111	C5-R-36-09	C6-FSA-36-09	117	C6-R-36-09
42	C4-FSA-42-09	116	C4-R-42-09	C5-FSA-42-09	122	C5-R-42-09	C6-FSA-42-09	129	C6-R-42-09
48	C4-FSA-48-09	126	C4-R-48-09	C5-FSA-48-09	134	C5-R-48-09	C6-FSA-48-09	141	C6-R-48-09
*54	C4-FSA-54-09	137	C4-R-54-09	C5-FSA-54-09	145	C5-R-54-09	C6-FSA-54-09	153	C6-R-54-09
*60	C4-FSA-60-09	147	C4-R-60-09	C5-FSA-60-09	156	C5-R-60-09	C6-FSA-60-09	165	C6-R-60-09

*CEMA recommends Class D



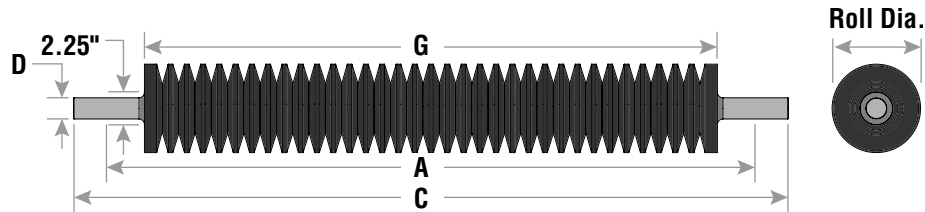
Belt Width	Standard Dimensions					Wide Base	
	A	B	C	D	G	Aw*	Cw*
18	27	3.69	29.5	13	21.38	33	35.5
20	29	3.69	31.5	13	23.38	35	37.5
24	33	3.69	35.5	13	27.38	39	41.5
30	39	3.69	41.5	13	33.38	45	47.5
36	45	3.69	47.5	13	39.38	51	53.5
42	51	3.69	53.5	13	45.38	57	59.5
48	57	3.69	59.5	13	51.38	63	65.5
54	63	3.69	65.5	13	57.38	69	71.5
60	69	3.69	71.5	13	63.38	75	77.5

Rubber Disc Flat Carry Self-Aligner

Belt Width	4" Roll Diameter			5" Roll Diameter			6" Roll Diameter		
	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll
18	C4-FRDSA-18	77	C4-FRD-18	C5-FRDSA-18	80	C5-FRD-18	C6-FRDSA-18	84	C6-FRD-18
20	C4-FRDSA-20	81	C4-FRD-20	C5-FRDSA-20	84	C5-FRD-20	C6-FRDSA-20	88	C6-FRD-20
24	C4-FRDSA-24	88	C4-FRD-24	C5-FRDSA-24	93	C5-FRD-24	C6-FRDSA-24	97	C6-FRD-24
30	C4-FRDSA-30	100	C4-FRD-30	C5-FRDSA-30	105	C5-FRD-30	C6-FRDSA-30	111	C6-FRD-30
36	C4-FRDSA-36	111	C4-FRD-36	C5-FRDSA-36	117	C5-FRD-36	C6-FRDSA-36	124	C6-FRD-36
42	C4-FRDSA-42	123	C4-FRD-42	C5-FRDSA-42	129	C5-FRD-42	C6-FRDSA-42	137	C6-FRD-42
48	C4-FRDSA-48	134	C4-FRD-48	C5-FRDSA-48	142	C5-FRD-48	C6-FRDSA-48	151	C6-FRD-48
54	C4-FRDSA-54	145	C4-FRD-54	C5-FRDSA-54	154	C5-FRD-54	C6-FRDSA-54	164	C6-FRD-54
60	C4-FRDSA-60	157	C4-FRD-60	C5-FRDSA-60	166	C5-FRD-60	C6-FRDSA-60	177	C6-FRD-60

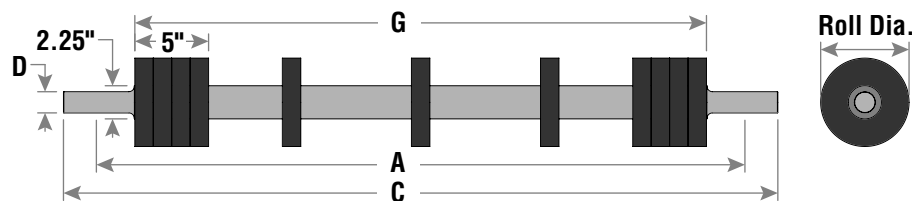
*CEMA recommends Class D

Shoe-Type Self-Aligner Available



Impact Live Shaft Roll

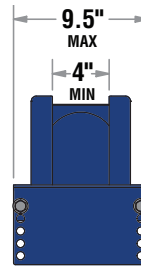
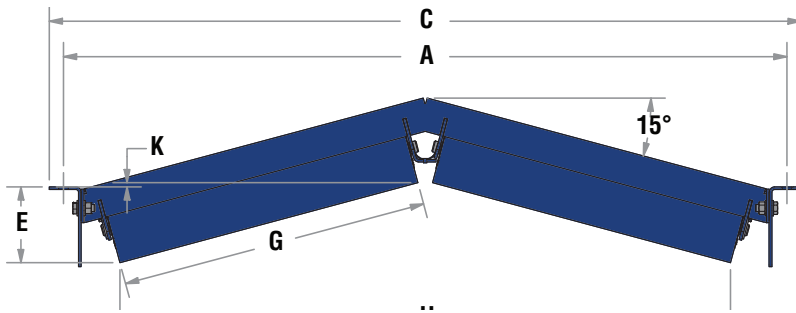
Belt Width	Standard Dimensions			5" Roll Diameter				6" Roll Diameter			
				D = 1.44"		D = 1.94"		D = 1.44"		D = 1.94"	
	A	C	G	Part Number	Wt.	Part Number	Wt.	Part Number	Wt.	Part Number	Wt.
18	27	30.75	21.38	C5-LI23-18	36	C5-LI31-18	40	C6-LI23-18	40	C6-LI31-18	44
20	29	32.75	23.38	C5-LI23-20	40	C5-LI31-20	43	C6-LI23-20	44	C6-LI31-20	47
24	33	36.75	27.38	C5-LI23-24	45	C5-LI31-24	49	C6-LI23-24	50	C6-LI31-24	55
30	39	42.75	33.38	C5-LI23-30	55	C5-LI31-30	58	C6-LI23-30	60	C6-LI31-30	64
36	45	48.75	39.38	C5-LI23-36	63	C5-LI31-36	67	C6-LI23-36	70	C6-LI31-36	74
42	51	54.75	45.38	C5-LI23-42	73	C5-LI31-42	76	C6-LI23-42	81	C6-LI31-42	84
48	57	60.75	51.38	C5-LI23-48	82	C5-LI31-48	85	C6-LI23-48	90	C6-LI31-48	94
54	63	66.75	57.38	C5-LI23-54	90	C5-LI31-54	94	C6-LI23-54	100	C6-LI31-54	104
60	69	72.75	63.38	C5-LI23-60	100	C5-LI31-60	103	C6-LI23-60	111	C6-LI31-60	114



Rubber Disc Return Live Shaft Roll

Belt Width	Standard Dimensions			5" Roll Diameter				6" Roll Diameter			
				D = 1.44"		D = 1.94"		D = 1.44"		D = 1.94"	
	A	C	G	Part Number	Wt.	Part Number	Wt.	Part Number	Wt.	Part Number	Wt.
18	27	30.75	21.38	C5-LRRD23-18	34	C5-LRRD31-18	38	C6-LRRD23-18	37	C6-LRRD31-18	41
20	29	32.75	23.38	C5-LRRD23-20	36	C5-LRRD31-20	40	C6-LRRD23-20	40	C6-LRRD31-20	43
24	33	36.75	27.38	C5-LRRD23-24	42	C5-LRRD31-24	45	C6-LRRD23-24	45	C6-LRRD31-24	49
30	39	42.75	33.38	C5-LRRD23-30	49	C5-LRRD31-30	53	C6-LRRD23-30	53	C6-LRRD31-30	57
36	45	48.75	39.38	C5-LRRD23-36	56	C5-LRRD31-36	60	C6-LRRD23-36	61	C6-LRRD31-36	60
42	51	54.75	45.38	C5-LRRD23-42	64	C5-LRRD31-42	67	C6-LRRD23-42	68	C6-LRRD31-42	72
48	57	60.75	51.38	C5-LRRD23-48	71	C5-LRRD31-48	75	C6-LRRD23-48	76	C6-LRRD31-48	80
54	63	66.75	57.38	C5-LRRD23-54	79	C5-LRRD31-54	82	C6-LRRD23-54	84	C6-LRRD31-54	88
60	69	72.75	63.38	C5-LRRD23-60	86	C5-LRRD31-60	90	C6-LRRD23-60	92	C6-LRRD31-60	95

CEMA C Steel Inverted V>Returns

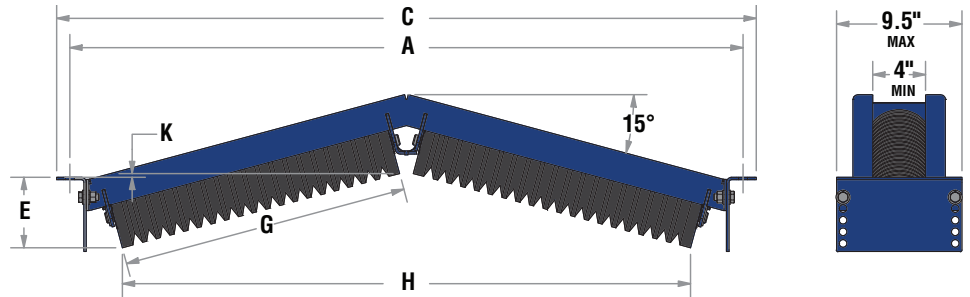


Belt Width	Standard Dimensions		
	A	C	G
18	27	29	8.94
24	33	35	13.25
30	39	41	15.44
36	45	47	17.63
42	51	53	21.75
48	57	59	23.38
54	63	65	27.38
60	69	71	30.88

Steel Inverted V>Returns

Belt Width	5" Roll Diameter						6" Roll Diameter					
	Part Number	E	H	K	Wt.	Replacement Rolls	Part Number	E	H	K	Wt.	Replacement Rolls
18	C5-15IV-18-09	5.19	18.25	2.88	42	C5-T-24-09	C6-15IV-18-09	5.63	18.00	3.31	45	C6-T-24-09
24	C5-15IV-24-09	5.50	26.63	2.00	51	C5-T-36-09	C6-15IV-24-09	6.00	26.38	2.50	55	C6-T-36-09
30	C5-15IV-30-09	5.25	30.94	1.25	57	C5-T-42-09	C6-15IV-30-09	5.75	30.63	1.75	62	C6-T-42-09
36	C5-15IV-36-09	5.00	35.00	0.44	63	C5-T-48-09	C6-15IV-36-09	5.50	34.81	0.94	68	C6-T-48-09
42	C5-15IV-42-09	5.25	43.00	0.38	72	C5-T-60-09	C6-15IV-42-09	5.75	42.75	0.13	78	C6-T-60-09
48	C5-15IV-48-09	4.88	46.19	1.13	76	C5-R-20-09	C6-15IV-48-09	5.38	45.94	0.69	84	C6-R-20-09
54	C5-15IV-54-09	5.13	53.94	2.00	85	C5-R-24-09	C6-15IV-54-09	5.63	53.69	1.50	93	C6-R-24-09
60	C5-15IV-60-09	5.25	60.69	2.75	93	C5-IV-60-09	C6-15IV-60-09	5.75	60.44	2.25	102	C6-IV-60-09

Belt Width	Standard Dimensions		
	A	C	G
18	27	29	8.94
24	33	35	13.25
30	39	41	15.44
36	45	47	17.63
42	51	53	21.75
48	57	59	23.38
54	63	65	27.38
60	69	71	30.88



Rubber Disc Inverted V>Returns

Belt Width	Part Number	5" Roll Diameter					6" Roll Diameter					
		E	H	K	Wt.	Replacement Roll	Part Number	E	H	K	Wt.	Replacement Roll
18	C5-15IVRD-18	5.19	18.25	2.88	42	C5-TI-24	C6-15IVRD-18	5.63	18.00	3.31	45	C6-TI-24
24	C5-15IVRD-24	5.50	26.63	2.00	53	C5-TI-36	C6-15IVRD-24	6.00	26.38	2.50	57	C6-TI-36
30	C5-15IVRD-30	5.25	30.94	1.25	60	C5-TI-42	C6-15IVRD-30	5.75	30.63	1.75	65	C6-TI-42
36	C5-15IVRD-36	5.00	35.00	0.44	66	C5-TI-48	C6-15IVRD-36	5.50	34.81	0.94	72	C6-TI-48
42	C5-15IVRD-42	5.25	43.00	0.38	77	C5-TI-60	C6-15IVRD-42	5.75	42.75	0.13	84	C6-TI-60
48	C5-15IVRD-48	4.88	46.19	1.13	81	C5-FRD-20	C6-15IVRD-48	5.38	45.94	0.69	90	C6-FRD-20
54	C5-15IVRD-54	5.13	53.94	2.00	92	C5-FRD-24	C6-15IVRD-54	5.63	53.69	1.50	102	C6-FRD-24
60	C5-15IVRD-60	5.25	60.69	2.75	101	C5-IVRD-60	C6-15IVRD-60	5.75	60.44	2.25	113	C6-IVRD-60

CEMA D Series Idler Features & Benefits

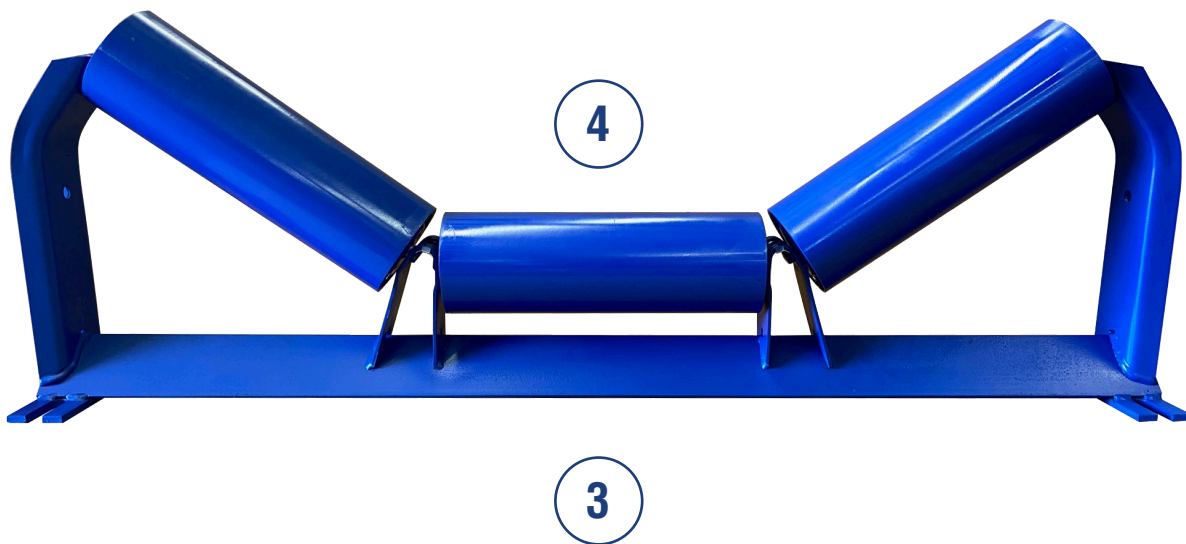


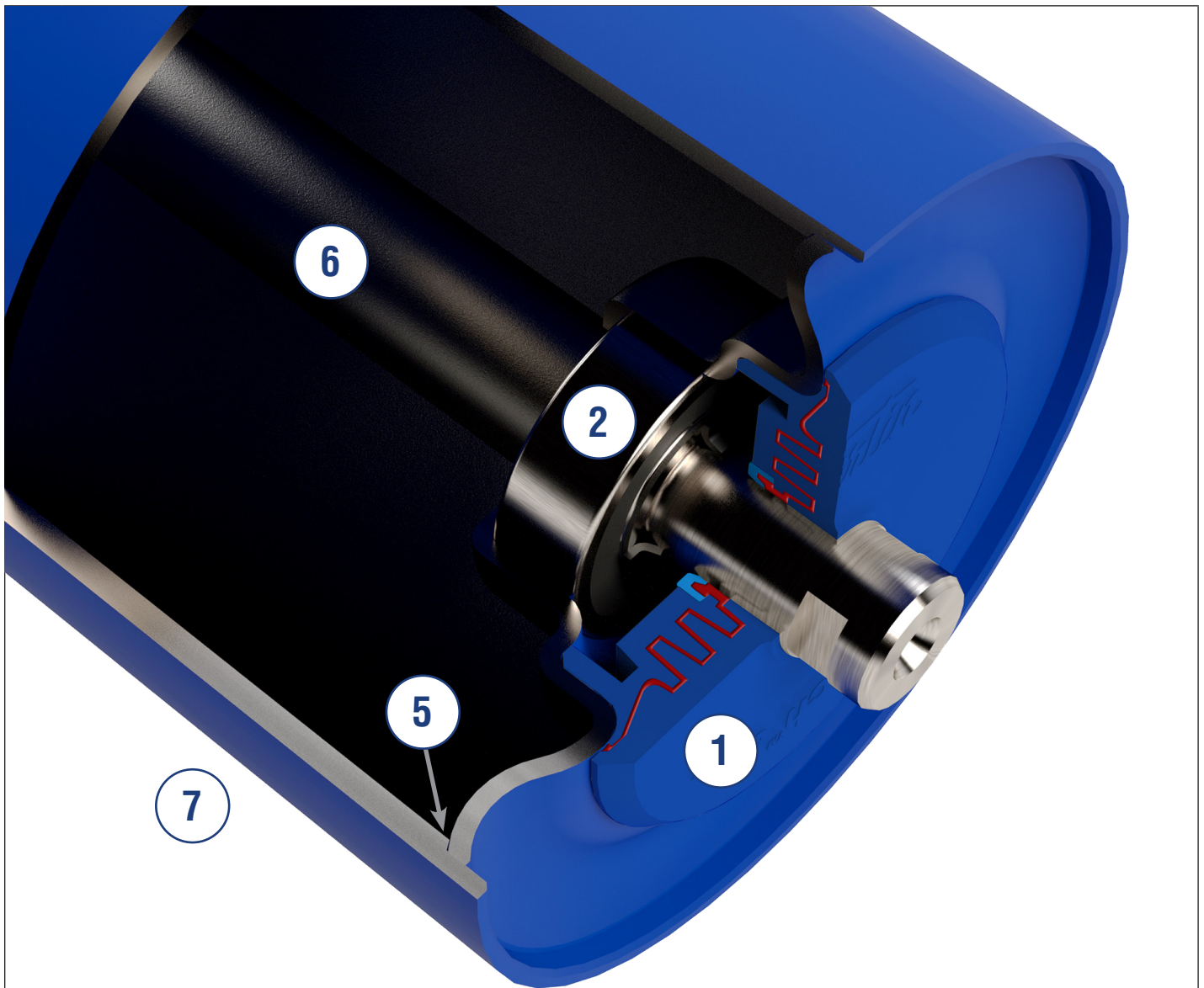
The D Series Idler sets a standard for the industry

- Manufactured using sealed for life ball bearings for long maintenance free operation
- *Martin* Premium Triple Labyrinth Seal guard bearing protection
- Conform to all CEMA D load and dimensional requirements
- Minimum 9 Gauge tubing on all CEMA D rolls
- Protected roll weld
- *Martin* Triple Labyrinth Seal guard offers a balance of seal performance and low rolling resistance

CEMA D Load Ratings

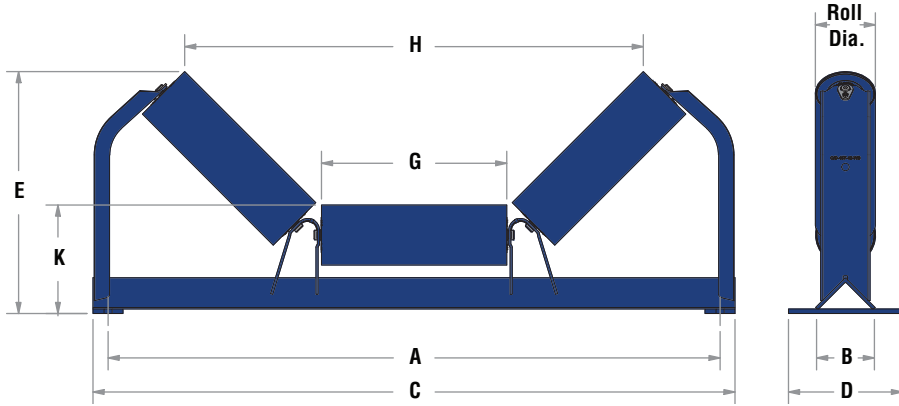
Belt Width	Troughing Angle			Steel Return & Flat	Unequal (Picking)	Live Shaft
	20°	35°	45°			
18	1,200	1,200	1,200	600	–	–
24	1,200	1,200	1,200	600	600	1,400
30	1,200	1,200	1,200	600	600	1,400
36	1,200	1,200	1,200	600	600	1,400
42	1,200	1,200	1,200	500	600	1,400
48	1,200	1,200	1,200	425	530	1,275
54	1,200	1,116	1,080	375	440	1,150
60	1,150	1,070	1,035	280	440	1,000
72	1,050	977	945	155	280	850
Two Steel V>Returns (All)				850	–	–





1	<p><i>Martin</i> Triple Labyrinth Seal design offers the following exclusive <i>Martin</i> bearing protection</p> <ul style="list-style-type: none"> • External shield deters impurities from entering the bearing housing • Flinger design removes contaminants away from the bearing housing by centrifugal force • Grease is injected into the labyrinth chambers during manufacturing to add an additional layer of protection against bearing contamination • The contact lip seal adds an additional level of protection against moisture & fine particulate contaminants
2	CEMA D Idlers have sealed for life ball bearings
3	CEMA D Idlers standard product line is 24" to 72" belt widths
4	<i>Martin</i> CEMA D Idlers offer low rolling resistance that allows for lower operating cost
5	Recessed & protected bearing housing weld protects against wear from belt
6	Oversized, solid steel shaft machined to 25 mm for bearings
7	<i>Martin</i> Idlers have low TIR

CEMA D Equal Steel Idlers



Belt Width	Standard Dimensions					Wide Base	
	A	B	C	D	G	Aw*	Cw*
24	33	5.5	35.5	8	8.94	39	41.5
30	39	5.5	41.5	9.5	11.13	45	47.5
36	45	5.5	47.5	9.5	13.25	51	53.5
42	51	5.5	53.5	9.5	15.44	57	59.5
48	57	5.5	59.5	9.5	17.63	63	65.5
54	63	7	65.5	11	19.75	69	71.5
60	69	7	71.5	11	21.75	75	77.5
72	81	7	83.5	11	26	87	89.5

*Dimension not shown; for wide base.

20° Equal Steel Idlers

Belt Width	5" Roll Diameter						6" Roll Diameter					
	Part Number	E	H	K	Wt.	Replacement Roll	Part Number	E	H	K	Wt.	Replacement Roll
24	D5-20T-24-09	11.75	26.94	8.5	54	D5-T-24-09	D6-20T-24-09	12.19	26.63	9	59	D6-T-24-09
30	D5-20T-30-09	12.63	33.25	8.63	64	D5-T-30-09	D6-20T-30-09	13.06	32.88	9.13	70	D6-T-30-09
36	D5-20T-36-09	13.31	39.31	8.63	72	D5-T-36-09	D6-20T-36-09	13.75	39	9.13	78	D6-T-36-09
42	D5-20T-42-09	14.44	45.63	9	83	D5-T-42-09	D6-20T-42-09	14.94	45.31	9.5	90	D6-T-42-09
48	D5-20T-48-09	15.25	51.94	9	91	D5-T-48-09	D6-20T-48-09	15.68	51.63	9.5	99	D6-T-48-09
54	D5-20T-54-09	15.94	58.06	9	112	D5-T-54-09	D6-20T-54-09	16.44	57.75	9.5	121	D6-T-54-09
60	D5-20T-60-09	16.94	63.81	9.38	120	D5-T-60-09	D6-20T-60-09	17.44	63.5	9.88	130	D6-T-60-09
72	D5-20T-72-09	18.39	76.06	9.38	139	D5-T-72-09	D6-20T-72-09	18.88	75.68	9.88	151	D6-T-72-09

35° Equal Steel Idlers

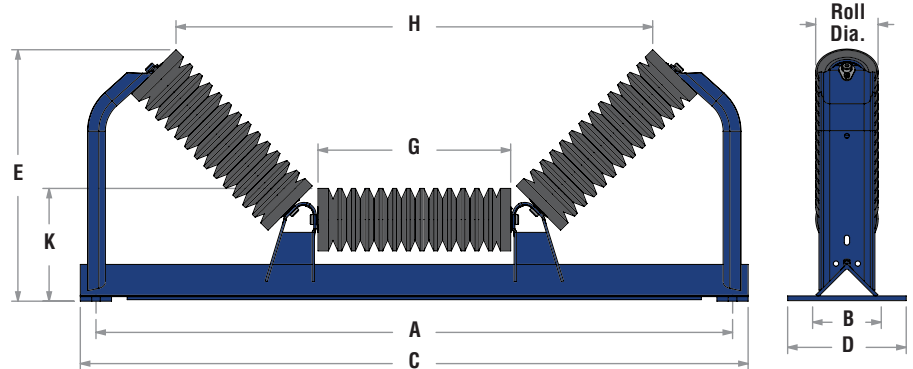
Belt Width	5" Roll Diameter						6" Roll Diameter					
	Part Number	E	H	K	Wt.	Replacement Roll	Part Number	E	H	K	Wt.	Replacement Roll
24	D5-35T-24-09	13.81	24.31	8.5	56	D5-T-24-09	D6-35T-24-09	14.18	23.75	9	61	D6-T-24-09
30	D5-35T-30-09	15.19	30.13	8.63	66	D5-T-30-09	D6-35T-30-09	15.63	29.5	9.13	72	D6-T-30-09
36	D5-35T-36-09	16.38	35.68	8.63	74	D5-T-36-09	D6-35T-36-09	16.81	35.13	9.13	81	D6-T-36-09
42	D5-35T-42-09	18.06	41.5	9	85	D5-T-42-09	D6-35T-42-09	18.44	40.94	9.5	93	D6-T-42-09
48	D5-35T-48-09	19.31	47.25	9	94	D5-T-48-09	D6-35T-48-09	19.69	46.69	9.5	102	D6-T-48-09
54	D5-35T-54-09	20.5	52.88	9	115	D5-T-54-09	D6-35T-54-09	20.88	52.25	9.5	124	D6-T-54-09
60	D5-35T-60-09	22	58.13	9.38	124	D5-T-60-09	D6-35T-60-09	22.44	57.5	9.88	134	D6-T-60-09
72	D5-35T-72-09	24.44	69.31	9.38	143	D5-T-72-09	D6-35T-72-09	24.81	68.75	9.88	155	D6-T-72-09

45° Equal Steel Idlers

Belt Width	5" Roll Diameter						6" Roll Diameter					
	Part Number	E	H	K	Wt.	Replacement Roll	Part Number	E	H	K	Wt.	Replacement Roll
24	D5-45T-24-09	15.06	22.5	8.5	57	D5-T-24-09	D6-45T-24-09	15.44	21.81	9	62	D6-T-24-09
30	D5-45T-30-09	16.75	27.75	8.63	68	D5-T-30-09	D6-45T-30-09	17.06	27.06	9.13	74	D6-T-30-09
36	D5-45T-36-09	18.25	32.94	8.63	76	D5-T-36-09	D6-45T-36-09	18.63	32.18	9.13	83	D6-T-36-09
42	D5-45T-42-09	20.19	38.19	9	88	D5-T-42-09	D6-45T-42-09	20.5	37.5	9.5	95	D6-T-42-09
48	D5-45T-48-09	21.68	43.5	9	97	D5-T-48-09	D6-45T-48-09	22.06	42.75	9.5	105	D6-T-48-09
54	D5-45T-54-09	23.25	48.63	9	118	D5-T-54-09	D6-45T-54-09	23.56	47.94	9.5	127	D6-T-54-09
60	D5-45T-60-09	25	53.44	9.38	128	D5-T-60-09	D6-45T-60-09	25.31	52.75	9.88	138	D6-T-60-09
72	D5-45T-72-09	28	63.69	9.38	147	D5-T-72-09	D6-45T-72-09	28.31	63	9.88	159	D6-T-72-09

Belt Width	Standard Dimensions					Wide Base	
	A	B	C	D	G	Aw*	Cw*
24	33	5.5	35.5	8	8.94	39	41.5
30	39	5.5	41.5	9.5	11.13	45	47.5
36	45	5.5	47.5	9.5	13.25	51	53.5
42	51	5.5	53.5	9.5	15.44	57	59.5
48	57	5.5	59.5	9.5	17.63	63	65.5
54	63	7	65.5	11	19.75	69	71.5
60	69	7	71.5	11	21.75	75	77.5
72	81	7	83.5	11	26	87	89.5

*Dimension not shown; for wide base.



20° Equal Impact Idlers

Belt Width	5" Roll Diameter						6" Roll Diameter					
	Part Number	E	H	K	Wt.	Replacement Roll	Part Number	E	H	K	Wt.	Replacement Roll
24	D5-20TI-24	11.75	26.94	8.5	64	D5-TI-24	D6-20TI-24	12.19	26.63	9	69	D6-TI-24
30	D5-20TI-30	12.63	33.25	8.63	77	D5-TI-30	D6-20TI-30	13.06	32.88	9.13	84	D6-TI-30
36	D5-20TI-36	13.31	39.31	8.63	89	D5-TI-36	D6-20TI-36	13.75	39	9.13	96	D6-TI-36
42	D5-20TI-42	14.44	45.63	9	105	D5-TI-42	D6-20TI-42	14.94	45.31	9.5	114	D6-TI-42
48	D5-20TI-48	15.25	51.94	9	117	D5-TI-48	D6-20TI-48	15.68	51.63	9.5	127	D6-TI-48
54	D5-20TI-54	15.94	58.06	9	144	D5-TI-54	D6-20TI-54	16.44	57.75	9.5	155	D6-TI-54
60	D5-20TI-60	16.94	63.81	9.38	157	D5-TI-60	D6-20TI-60	17.44	63.5	9.88	169	D6-TI-60
72	D5-20TI-72	18.39	76.06	9.38	183	D5-TI-72	D6-20TI-72	18.88	75.68	9.88	198	D6-TI-72

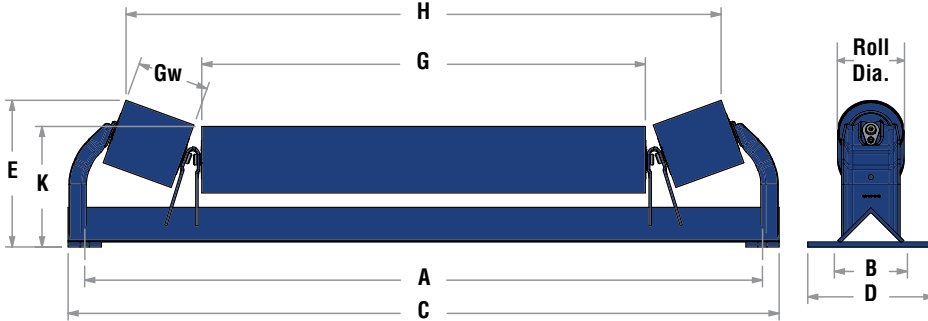
35° Equal Impact Idlers

Belt Width	5" Roll Diameter						6" Roll Diameter					
	Part Number	E	H	K	Wt.	Replacement Roll	Part Number	E	H	K	Wt.	Replacement Roll
24	D5-35TI-24	13.81	24.31	8.5	66	D5-TI-24	D6-35TI-24	14.18	23.75	9	71	D6-TI-24
30	D5-35TI-30	15.19	30.13	8.63	79	D5-TI-30	D6-35TI-30	15.63	29.5	9.13	86	D6-TI-30
36	D5-35TI-36	16.38	35.68	8.63	91	D5-TI-36	D6-35TI-36	16.81	35.13	9.13	99	D6-TI-36
42	D5-35TI-42	18.06	41.5	9	108	D5-TI-42	D6-35TI-42	18.44	40.94	9.5	117	D6-TI-42
48	D5-35TI-48	19.31	47.25	9	120	D5-TI-48	D6-35TI-48	19.69	46.69	9.5	130	D6-TI-48
54	D5-35TI-54	20.5	52.88	9	147	D5-TI-54	D6-35TI-54	20.88	52.25	9.5	158	D6-TI-54
60	D5-35TI-60	22	58.13	9.38	160	D5-TI-60	D6-35TI-60	22.44	57.5	9.88	173	D6-TI-60
72	D5-35TI-72	24.44	69.31	9.38	187	D5-TI-72	D6-35TI-72	24.81	68.75	9.88	203	D6-TI-72

45° Equal Impact Idlers

Belt Width	5" Roll Diameter						6" Roll Diameter					
	Part Number	E	H	K	Wt.	Replacement Roll	Part Number	E	H	K	Wt.	Replacement Roll
24	D5-45TI-24	15.06	22.5	8.5	68	D5-TI-24	D6-45TI-24	15.44	21.81	9	73	D6-TI-24
30	D5-45TI-30	16.75	27.75	8.63	82	D5-TI-30	D6-45TI-30	17.06	27.06	9.13	88	D6-TI-30
36	D5-45TI-36	18.25	32.94	8.63	94	D5-TI-36	D6-45TI-36	18.63	32.18	9.13	101	D6-TI-36
42	D5-45TI-42	20.19	38.19	9	111	D5-TI-42	D6-45TI-42	20.5	37.5	9.5	120	D6-TI-42
48	D5-45TI-48	21.68	43.5	9	123	D5-TI-48	D6-45TI-48	22.06	42.75	9.5	134	D6-TI-48
54	D5-45TI-54	23.25	48.63	9	151	D5-TI-54	D6-45TI-54	23.56	47.94	9.5	162	D6-TI-54
60	D5-45TI-60	25	53.44	9.38	164	D5-TI-60	D6-45TI-60	25.31	52.75	9.88	177	D6-TI-60
72	D5-45TI-72	28	63.69	9.38	192	D5-TI-72	D6-45TI-72	28.31	63	9.88	207	D6-TI-72

CEMA D Unequal Steel Idlers



Belt Width	Standard Dimensions				Wide Base	
	A	B	C	D	Aw*	Cw*
24	33	5.5	35.5	9.5	39	41.5
30	39	5.5	41.5	9.5	45	47.5
36	45	5.5	47.5	9.5	51	53.5
42	51	5.5	53.5	9.5	57	59.5
48	57	5.5	59.5	9.5	63	65.5
54	63	7	65.5	11	69	71.5
60	69	7	71.5	11	75	77.5
72	81	7	83.5	11	87	89.5

*Dimension not shown; for wide base.

20° Unequal Steel Idlers

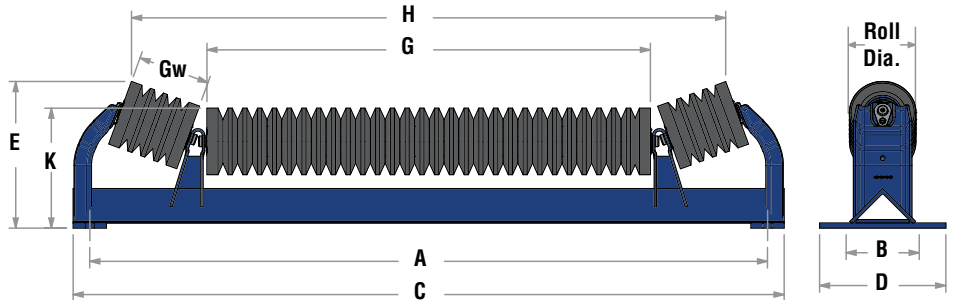
Belt Width	G	Gw	5" Roll Diameter							6" Roll Diameter						
			Part Number	E	H	K	Wt.	Replacement Center Roll	Replacement Wing Roll	Part Number	E	H	K	Wt.	Replacement Center Roll	Replacement Wing Roll
24	15.44	5.44	D5-20U-24-09	10.50	26.88	8.5	53	D5-T-42-09	D5-T-14-09	D6-20U-24-09	11	26.5	9	57	D6-T-42-09	D6-T-14-09
30	21.38	5.44	D5-20U-30-09	10.63	32.81	8.63	61	D5-R-18-09		D6-20U-30-09	11.13	32.44	9.13	67	D6-R-18-09	
36	27.38	5.44	D5-20U-36-09	10.63	38.81	8.63	69	D5-R-24-09		D6-20U-36-09	11.13	38.44	9.13	75	D6-R-24-09	
42	33.38	5.44	D5-20U-42-09	11.00	44.81	9	78	D5-R-30-09		D6-20U-42-09	11.5	44.44	9.5	86	D6-R-30-09	
48	39.38	5.44	D5-20U-48-09	11.00	50.81	9	86	D5-R-36-09		D6-20U-48-09	11.5	50.44	9.5	94	D6-R-36-09	
54	45.38	5.44	D5-20U-54-09	11.39	56.81	9	106	D5-R-42-09		D6-20U-54-09	11.81	56.44	9.5	115	D6-R-42-09	
60	51.38	5.44	D5-20U-60-09	11.39	62.81	9.38	114	D5-R-48-09		D6-20U-60-09	11.81	62.44	9.88	124	D6-R-48-09	
72	63.38	5.44	D5-20U-72-09	11.39	74.79	9.38	131	D5-R-60-09		D6-20U-72-09	11.81	74.44	9.88	142	D6-R-60-09	

35° Unequal Steel Idlers

Belt Width	G	Gw	5" Roll Diameter							6" Roll Diameter						
			Part Number	E	H	K	Wt.	Replacement Center Roll	Replacement Wing Roll	Part Number	E	H	K	Wt.	Replacement Center Roll	Replacement Wing Roll
24	13.25	6.75	D5-35U-24-09	12.5	25.06	8.5	55	D5-T-36-09	D5-T-18-09	D6-35U-24-09	12.94	24.5	9	60	D6-T-36-09	D6-T-18-09
30	15.44	8.94	D5-35U-30-09	13.94	30.81	8.63	65	D5-T-42-09	D5-T-24-09	D6-35U-30-09	14.31	30.25	9.13	71	D6-T-42-09	D6-T-24-09
36	19.75	8.94	D5-35U-36-09	13.94	35.13	8.63	71	D5-T-54-09		D6-35U-36-09	14.31	34.56	9.13	77	D6-T-54-09	
42	21.38	11.13	D5-35U-42-09	15.56	40.38	9	81	D5-R-18-09	D5-T-30-09	D6-35U-42-09	16	39.75	9.5	89	D6-R-18-09	D6-T-30-09
48	27.38	11.13	D5-35U-48-09	15.56	46.38	9	89	D5-R-24-09		D6-35U-48-09	16	45.75	9.5	97	D6-R-24-09	
54	33.38	11.13	D5-35U-54-09	15.88	52.38	9	109	D5-R-30-09		D6-35U-54-09	16.31	51.75	9.5	118	D6-R-30-09	
60	39.38	11.13	D5-35U-60-09	15.88	58.38	9.38	117	D5-R-36-09		D6-35U-60-09	16.31	57.75	9.88	127	D6-R-36-09	
72	51.38	11.13	D5-35U-72-09	15.88	70.38	9.38	134	D5-R-48-09	D6-35U-72-09	16.31	69.75	9.88	145	D6-R-48-09		

Belt Width	Standard Dimensions				Wide Base	
	A	B	C	D	Aw*	Cw*
24	33	5.5	35.5	9.5	39	41.5
30	39	5.5	41.5	9.5	45	47.5
36	45	5.5	47.5	9.5	51	53.5
42	51	5.5	53.5	9.5	57	59.5
48	57	5.5	59.5	9.5	63	65.5
54	63	7	65.5	11	69	71.5
60	69	7	71.5	11	75	77.5
72	81	7	83.5	11	87	89.5

*Dimension not shown; for wide base.



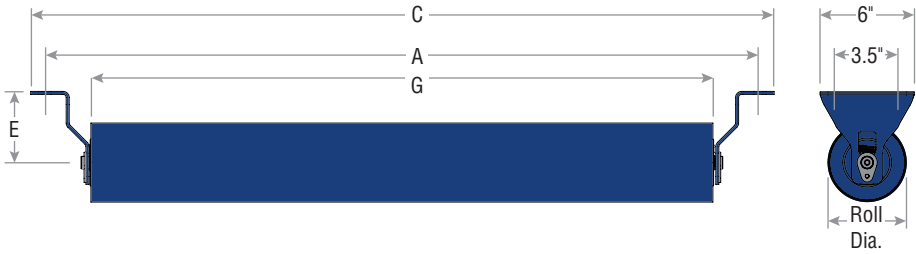
20° Unequal Impact Idlers

Belt Width	G	Gw	5" Roll Diameter							6" Roll Diameter						
			Part Number	E	H	K	Wt.	Replacement Center Roll	Replacement Wing Roll	Part Number	E	H	K	Wt.	Replacement Center Roll	Replacement Wing Roll
24	15.44	5.44	D5-20UI-24	10.50	26.88	8.5	62	D5-TI-42	D5-TI-14	D6-20UI-24	11	26.5	9	68	D6-TI-42	D6-TI-14
30	21.38	5.44	D5-20UI-30	10.63	32.81	8.63	75	D5-FRD-18		D6-20UI-30	11.13	32.44	9.13	81	D6-FRD-18	
36	27.38	5.44	D5-20UI-36	10.63	38.81	8.63	85	D5-FRD-24		D6-20UI-36	11.13	38.44	9.13	93	D6-FRD-24	
42	33.38	5.44	D5-20UI-42	11.00	44.81	9	101	D5-FRD-30		D6-20UI-42	11.5	44.44	9.5	109	D6-FRD-30	
48	39.38	5.44	D5-20UI-48	11.00	50.81	9	111	D5-FRD-36		D6-20UI-48	11.5	50.44	9.5	121	D6-FRD-36	
54	45.38	5.44	D5-20UI-54	11.39	56.81	9	137	D5-FRD-42		D6-20UI-54	11.81	56.44	9.5	148	D6-FRD-42	
60	51.38	5.44	D5-20UI-60	11.39	62.81	9.38	149	D5-FRD-48		D6-20UI-60	11.81	62.44	9.88	161	D6-FRD-48	
72	63.38	5.44	D5-20UI-72	11.39	74.79	9.38	174	D5-FRD-60		D6-20UI-72	11.81	74.44	9.88	189	D6-FRD-60	

35° Unequal Impact Idlers

Belt Width	G	Gw	5" Roll Diameter							6" Roll Diameter						
			Part Number	E	H	K	Wt.	Replacement Center Roll	Replacement Wing Roll	Part Number	E	H	K	Wt.	Replacement Center Roll	Replacement Wing Roll
24	13.25	6.75	D5-35UI-24	12.5	25.06	8.5	65	D5-TI-36	D5-TI-18	D6-35UI-24	12.94	24.5	9	70	D6-TI-36	D6-TI-18
30	15.44	8.94	D5-35UI-30	13.94	30.81	8.63	79	D5-TI-42	D5-TI-24	D6-35UI-30	14.31	30.25	9.13	85	D6-TI-42	D6-TI-24
36	19.75	8.94	D5-35UI-36	13.94	35.13	8.63	87	D5-TI-54		D6-35UI-36	14.31	34.56	9.13	95	D6-TI-54	
42	21.38	11.13	D5-35UI-42	15.56	40.38	9	103	D5-FRD-18	D5-TI-30	D6-35UI-42	16	39.75	9.5	112	D6-FRD-18	D6-TI-30
48	27.38	11.13	D5-35UI-48	15.56	46.38	9	114	D5-FRD-24		D6-35UI-48	16	45.75	9.5	124	D6-FRD-24	
54	33.38	11.13	D5-35UI-54	15.88	52.38	9	140	D5-FRD-30		D6-35UI-54	16.31	51.75	9.5	151	D6-FRD-30	
60	39.38	11.13	D5-35UI-60	15.88	58.38	9.38	152	D5-FRD-36	D6-35UI-60	16.31	57.75	9.88	164	D6-FRD-36		
72	51.38	11.13	D5-35UI-72	15.88	70.38	9.38	177	D5-FRD-48	D6-35UI-72	16.31	69.75	9.88	191	D6-FRD-48		

CEMA D Steel Returns



Belt Width	Standard Dimensions		
	A	C	G
24	33	35	27.38
30	39	41	33.38
36	45	47	39.38
42	51	53	45.38
48	57	59	51.38
54	63	65	57.38
60	69	71	63.38
72	81	83	75.38

Steel Returns (E = 1.5")

Belt Width	5" Roll Diameter			6" Roll Diameter		
	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll
24	D5-R-24-09-1	28	D5-R-24-09	D6-R-24-09-1	32	D6-R-24-09
30	D5-R-30-09-1	34	D5-R-30-09	D6-R-30-09-1	38	D6-R-30-09
36	D5-R-36-09-1	39	D5-R-36-09	D6-R-36-09-1	44	D6-R-36-09
42	D5-R-42-09-1	44	D5-R-42-09	D6-R-42-09-1	51	D6-R-42-09
48	D5-R-48-09-1	49	D5-R-48-09	D6-R-48-09-1	57	D6-R-48-09
54	D5-R-54-09-1	55	D5-R-54-09	D6-R-54-09-1	63	D6-R-54-09
60	D5-R-60-09-1	60	D5-R-60-09	D6-R-60-09-1	69	D6-R-60-09
72	D5-R-72-09-1	71	D5-R-72-09	D6-R-72-09-1	81	D6-R-72-09

Steel Returns (E = 4.5")

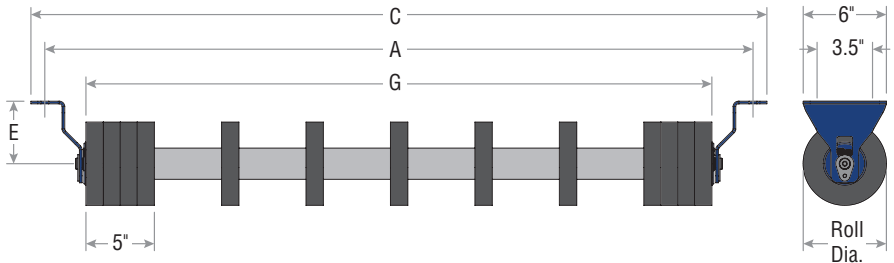
Belt Width	5" Roll Diameter			6" Roll Diameter		
	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll
24	D5-R-24-09-4	30	D5-R-24-09	D6-R-24-09-4	34	D6-R-24-09
30	D5-R-30-09-4	36	D5-R-30-09	D6-R-30-09-4	40	D6-R-30-09
36	D5-R-36-09-4	41	D5-R-36-09	D6-R-36-09-4	46	D6-R-36-09
42	D5-R-42-09-4	46	D5-R-42-09	D6-R-42-09-4	53	D6-R-42-09
48	D5-R-48-09-4	51	D5-R-48-09	D6-R-48-09-4	59	D6-R-48-09
54	D5-R-54-09-4	57	D5-R-54-09	D6-R-54-09-4	65	D6-R-54-09
60	D5-R-60-09-4	62	D5-R-60-09	D6-R-60-09-4	71	D6-R-60-09
72	D5-R-72-09-4	73	D5-R-72-09	D6-R-72-09-4	83	D6-R-72-09

Steel Returns (E = 4.5", Belt Saver)

Belt Width	5" Roll Diameter			6" Roll Diameter		
	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll
24	D5-R-24-09-4S	31	D5-R-24-09	D6-R-24-09-4S	35	D6-R-24-09
30	D5-R-30-09-4S	37	D5-R-30-09	D6-R-30-09-4S	41	D6-R-30-09
36	D5-R-36-09-4S	42	D5-R-36-09	D6-R-36-09-4S	47	D6-R-36-09
42	D5-R-42-09-4S	47	D5-R-42-09	D6-R-42-09-4S	54	D6-R-42-09
48	D5-R-48-09-4S	52	D5-R-48-09	D6-R-48-09-4S	60	D6-R-48-09
54	D5-R-54-09-4S	58	D5-R-54-09	D6-R-54-09-4S	66	D6-R-54-09
60	D5-R-60-09-4S	63	D5-R-60-09	D6-R-60-09-4S	72	D6-R-60-09
72	D5-R-72-09-4S	74	D5-R-72-09	D6-R-72-09-4S	84	D6-R-72-09

Note: Brackets Also Sold Separately (page N-65).

Belt Width	Standard Dimensions		
	A	C	G
24	33	35	27.13
30	39	41	33.13
36	45	47	39.13
42	51	53	45.13
48	57	59	51.13
54	63	65	57.13
60	69	71	63.13
72	81	83	75.13



Rubber Disc Returns (E = 1.5")

Belt Width	5" Roll Diameter			6" Roll Diameter		
	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll
24	D5-RRD-24-1	31	D5-RRD-24	D6-RRD-24-1	35	D6-RRD-24
30	D5-RRD-30-1	36	D5-RRD-30	D6-RRD-30-1	41	D6-RRD-30
36	D5-RRD-36-1	42	D5-RRD-36	D6-RRD-36-1	46	D6-RRD-36
42	D5-RRD-42-1	47	D5-RRD-42	D6-RRD-42-1	52	D6-RRD-42
48	D5-RRD-48-1	52	D5-RRD-48	D6-RRD-48-1	58	D6-RRD-48
54	D5-RRD-54-1	58	D5-RRD-54	D6-RRD-54-1	64	D6-RRD-54
60	D5-RRD-60-1	63	D5-RRD-60	D6-RRD-60-1	69	D6-RRD-60
72	D5-RRD-72-1	74	D5-RRD-72	D6-RRD-72-1	81	D6-RRD-72

Rubber Disc Returns (E = 4.5")

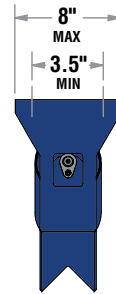
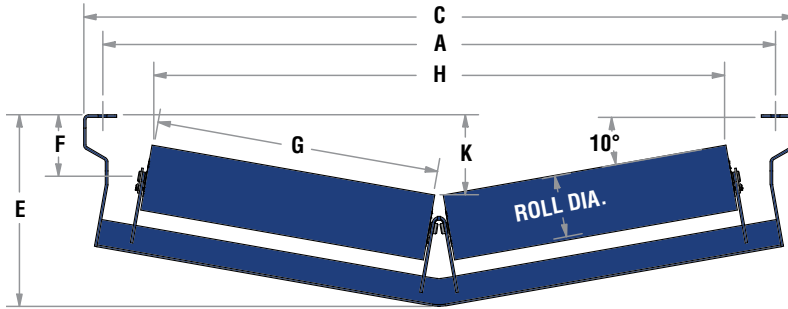
Belt Width	5" Roll Diameter			6" Roll Diameter		
	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll
24	D5-RRD-24-4	33	D5-RRD-24	D6-RRD-24-4	37	D6-RRD-24
30	D5-RRD-30-4	38	D5-RRD-30	D6-RRD-30-4	43	D6-RRD-30
36	D5-RRD-36-4	44	D5-RRD-36	D6-RRD-36-4	48	D6-RRD-36
42	D5-RRD-42-4	49	D5-RRD-42	D6-RRD-42-4	54	D6-RRD-42
48	D5-RRD-48-4	54	D5-RRD-48	D6-RRD-48-4	60	D6-RRD-48
54	D5-RRD-54-4	60	D5-RRD-54	D6-RRD-54-4	66	D6-RRD-54
60	D5-RRD-60-4	65	D5-RRD-60	D6-RRD-60-4	71	D6-RRD-60
72	D5-RRD-72-4	76	D5-RRD-72	D6-RRD-72-4	83	D6-RRD-72

Rubber Disc Returns (E = 4.5", Belt Saver)

Belt Width	5" Roll Diameter			6" Roll Diameter		
	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll
24	D5-RRD-24-4S	34	D5-RRD-24	D6-RRD-24-4S	38	D6-RRD-24
30	D5-RRD-30-4S	39	D5-RRD-30	D6-RRD-30-4S	44	D6-RRD-30
36	D5-RRD-36-4S	45	D5-RRD-36	D6-RRD-36-4S	49	D6-RRD-36
42	D5-RRD-42-4S	50	D5-RRD-42	D6-RRD-42-4S	55	D6-RRD-42
48	D5-RRD-48-4S	55	D5-RRD-48	D6-RRD-48-4S	61	D6-RRD-48
54	D5-RRD-54-4S	61	D5-RRD-54	D6-RRD-54-4S	67	D6-RRD-54
60	D5-RRD-60-4S	66	D5-RRD-60	D6-RRD-60-4S	72	D6-RRD-60
72	D5-RRD-72-4S	77	D5-RRD-72	D6-RRD-72-4S	84	D6-RRD-72

Note: Brackets Also Sold Separately (page N-65).

CEMA D Steel V>Returns



Belt Width	Standard Dimensions		
	A	C	G
24	33	35.88	13.25
30	39	41.88	17.63
36	45	47.88	19.75
42	51	53.88	21.38
48	57	59.88	26.00
54	63	65.88	28.88
60	69	71.88	31.88
72	81	83.88	38.00

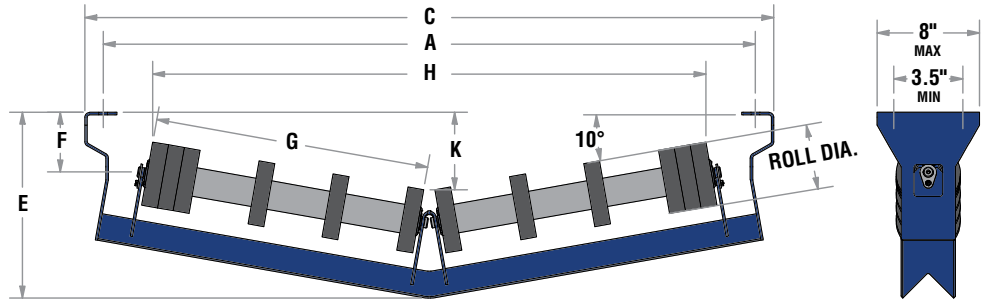
Steel V>Returns (F = 4.5")

Belt Width	5" Roll Diameter						6" Roll Diameter					
	Part Number	E	H	K	Wt.	Replacement Roll	Part Number	E	H	K	Wt.	Replacement Roll
24	D5-10V4-24-09	12.94	26.75	4.50	48	D5-T-36-09	D6-10V4-24-09	12.94	26.56	4.00	55	D6-T-36-09
30	D5-10V4-30-09	13.44	35.31	5.00	57	D5-T-48-09	D6-10V4-30-09	13.44	35.19	4.50	65	D6-T-48-09
36	D5-10V4-36-09	14.00	39.50	5.56	64	D5-T-54-09	D6-10V4-36-09	14.00	39.38	5.00	71	D6-T-54-09
42	D5-10V4-42-09	14.50	43.50	6.00	70	D5-T-60-09	D6-10V4-42-09	14.50	43.31	5.38	78	D6-T-60-09
48	D5-10V4-48-09	15.00	51.81	6.63	80	D5-T-72-09	D6-10V4-48-09	15.00	51.69	6.13	88	D6-T-72-09
54	D5-10V4-54-09	15.56	57.50	7.13	87	D5-V-54-09	D6-10V4-54-09	15.56	57.31	6.63	96	D6-V-54-09
60	D5-10V4-60-09	16.13	63.44	7.69	94	D5-V-60-09	D6-10V4-60-09	16.13	63.25	7.19	104	D6-V-60-09
72	D5-10V4-72-09	17.13	75.5	8.75	109	D5-V-72-09	D6-10V4-72-09	17.13	75.25	8.25	120	D6-V-72-09

Steel V>Returns (F = 7")

Belt Width	5" Roll Diameter						6" Roll Diameter					
	Part Number	E	H	K	Wt.	Replacement Roll	Part Number	E	H	K	Wt.	Replacement Roll
24	D5-10V7-24-09	15.56	26.75	7.13	52	D5-T-36-09	D6-10V7-24-09	15.56	26.56	6.63	59	D6-T-36-09
30	D5-10V7-30-09	16.06	35.31	7.63	61	D5-T-48-09	D6-10V7-30-09	16.06	35.19	7.13	69	D6-T-48-09
36	D5-10V7-36-09	16.63	39.50	8.19	68	D5-T-54-09	D6-10V7-36-09	16.63	39.38	7.69	75	D6-T-54-09
42	D5-10V7-42-09	17.13	43.50	8.69	74	D5-T-60-09	D6-10V7-42-09	17.13	43.31	8.25	82	D6-T-60-09
48	D5-10V7-48-09	17.69	51.81	9.25	84	D5-T-72-09	D6-10V7-48-09	17.69	51.69	8.75	92	D6-T-72-09
54	D5-10V7-54-09	18.19	57.50	9.75	91	D5-V-54-09	D6-10V7-54-09	18.19	57.31	9.25	100	D6-V-54-09
60	D5-10V7-60-09	18.75	63.44	10.25	98	D5-V-60-09	D6-10V7-60-09	18.75	63.25	9.81	108	D6-V-60-09
72	D5-10V7-72-09	19.94	75.5	11.5	113	D5-V-72-09	D6-10V7-72-09	19.75	75.31	10.88	124	D6-V-72-09

Belt Width	Standard Dimensions		
	A	C	G
24	33	35.88	13.25
30	39	41.88	15.44
36	45	47.88	17.63
42	51	53.88	21.75
48	57	59.88	23.38
54	63	65.88	27.38
60	69	71.88	30.88
72	81	83.88	37



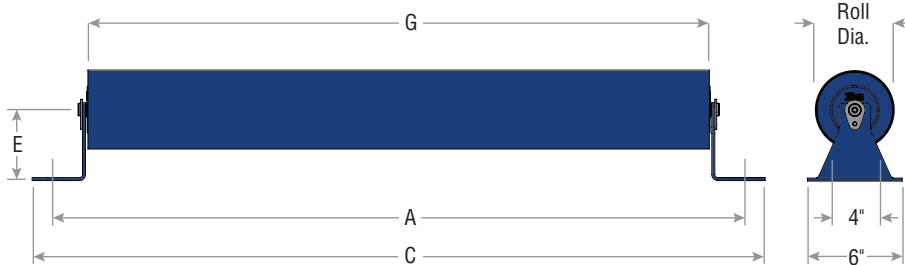
Rubber Disc V>Returns (F = 4.5")

Belt Width	5" Roll Diameter						6" Roll Diameter					
	Part Number	E	H	K	Wt.	Replacement Roll	Part Number	E	H	K	Wt.	Replacement Roll
24	D5-10VRD4-24	12.94	26.75	4.50	46	D5-VRD-24	D6-10VRD4-24	12.94	26.56	4.00	51	D6-VRD-24
30	D5-10VRD4-30	13.44	35.31	5.00	53	D5-VRD-30	D6-10VRD4-30	13.44	35.19	4.50	60	D6-VRD-30
36	D5-10VRD4-36	14.00	39.50	5.56	58	D5-VRD-36	D6-10VRD4-36	14.00	39.38	5.00	66	D6-VRD-36
42	D5-10VRD4-42	14.50	43.50	6.00	63	D5-VRD-42	D6-10VRD4-42	14.50	43.31	5.38	71	D6-VRD-42
48	D5-10VRD4-48	15.00	51.81	6.63	70	D5-VRD-48	D6-10VRD4-48	15.00	51.69	6.13	80	D6-VRD-48
54	D5-10VRD4-54	15.56	57.50	7.13	83	D5-VRD-54	D6-10VRD4-54	15.56	57.31	6.63	90	D6-VRD-54
60	D5-10VRD4-60	16.13	63.44	7.69	90	D5-VRD-60	D6-10VRD4-60	16.13	63.25	7.19	98	D6-VRD-60
72	D5-10VRD4-72	17.13	75.5	8.75	101	D5-VRD-72	D6-10VRD4-72	17.13	75.25	8.25	113	D6-VRD-72

Rubber Disc V>Returns (F = 7")

Belt Width	5" Roll Diameter						6" Roll Diameter					
	Part Number	E	H	K	Wt.	Replacement Roll	Part Number	E	H	K	Wt.	Replacement Roll
24	D5-10VRD7-24	15.56	26.75	7.13	50	D5-VRD-24	D6-10VRD7-24	15.56	26.56	6.63	54	D6-VRD-24
30	D5-10VRD7-30	16.06	35.31	7.63	57	D5-VRD-30	D6-10VRD7-30	16.06	35.19	7.13	65	D6-VRD-30
36	D5-10VRD7-36	16.63	39.50	8.19	62	D5-VRD-36	D6-10VRD7-36	16.63	39.38	7.69	70	D6-VRD-36
42	D5-10VRD7-42	17.13	43.50	8.69	67	D5-VRD-42	D6-10VRD7-42	17.13	43.31	8.25	77	D6-VRD-42
48	D5-10VRD7-48	17.69	51.81	9.25	74	D5-VRD-48	D6-10VRD7-48	17.69	51.69	8.75	86	D6-VRD-48
54	D5-10VRD7-54	18.19	57.50	9.75	87	D5-VRD-54	D6-10VRD7-54	18.19	57.31	9.25	94	D6-VRD-54
60	D5-10VRD7-60	18.75	63.44	10.25	94	D5-VRD-60	D6-10VRD7-60	18.75	63.25	9.81	102	D6-VRD-60
72	D5-10VRD7-72	19.94	75.5	11.5	105	D5-VRD-72	D6-10VRD7-72	19.75	75.31	10.88	117	D6-VRD-72

CEMA D Steel Flat Carry



Belt Width	Standard Dimensions		
	A	C	G
24	33	35.44	27.38
30	39	41.44	33.38
36	45	47.44	39.38
42	51	53.44	45.38
48	57	59.44	51.38
54	63	65.44	57.38
60	69	71.44	63.38
72	81	83.44	75.38

Steel Flat Carry (E = 1.5")

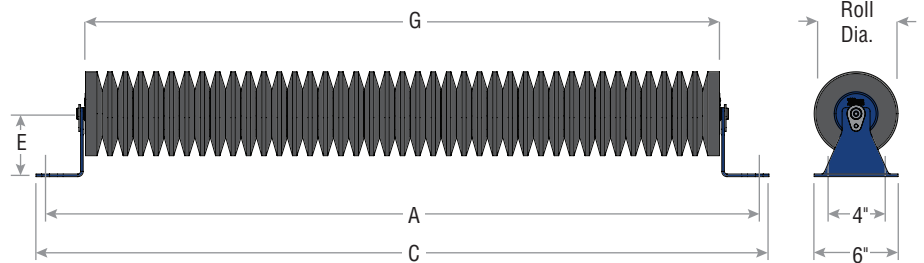
Belt Width	5" Roll Diameter			6" Roll Diameter		
	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll
24	D5-F-24-09-1	30	D5-R-24-09	D6-F-24-09-1	34	D6-R-24-09
30	D5-F-30-09-1	36	D5-R-30-09	D6-F-30-09-1	40	D6-R-30-09
36	D5-F-36-09-1	41	D5-R-36-09	D6-F-36-09-1	46	D6-R-36-09
42	D5-F-42-09-1	46	D5-R-42-09	D6-F-42-09-1	53	D6-R-42-09
48	D5-F-48-09-1	51	D5-R-48-09	D6-F-48-09-1	59	D6-R-48-09
54	D5-F-54-09-1	57	D5-R-54-09	D6-F-54-09-1	65	D6-R-54-09
60	D5-F-60-09-1	62	D5-R-60-09	D6-F-60-09-1	71	D6-R-60-09
72	D5-F-72-09-1	73	D5-R-72-09	D6-F-72-09-1	83	D6-R-72-09

Steel Flat Carry (E = 4.5")

Belt Width	5" Roll Diameter			6" Roll Diameter		
	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll
24	D5-F-24-09-4	32	D5-R-24-09	D6-F-24-09-4	36	D6-R-24-09
30	D5-F-30-09-4	38	D5-R-30-09	D6-F-30-09-4	42	D6-R-30-09
36	D5-F-36-09-4	43	D5-R-36-09	D6-F-36-09-4	48	D6-R-36-09
42	D5-F-42-09-4	48	D5-R-42-09	D6-F-42-09-4	55	D6-R-42-09
48	D5-F-48-09-4	53	D5-R-48-09	D6-F-48-09-4	61	D6-R-48-09
54	D5-F-54-09-4	59	D5-R-54-09	D6-F-54-09-4	67	D6-R-54-09
60	D5-F-60-09-4	64	D5-R-60-09	D6-F-60-09-4	73	D6-R-60-09
72	D5-F-72-09-4	75	D5-R-72-09	D6-F-72-09-4	85	D6-R-72-09

Note: Brackets Also Sold Separately (page N-65).

Belt Width	Standard Dimensions		
	A	C	G
24	33	35.44	27.38
30	39	41.44	33.38
36	45	47.44	39.38
42	51	53.44	45.38
48	57	59.44	51.38
54	63	65.44	57.38
60	69	71.44	63.38
72	81	83.44	75.38



Impact Flat Carry (E = 1.5")

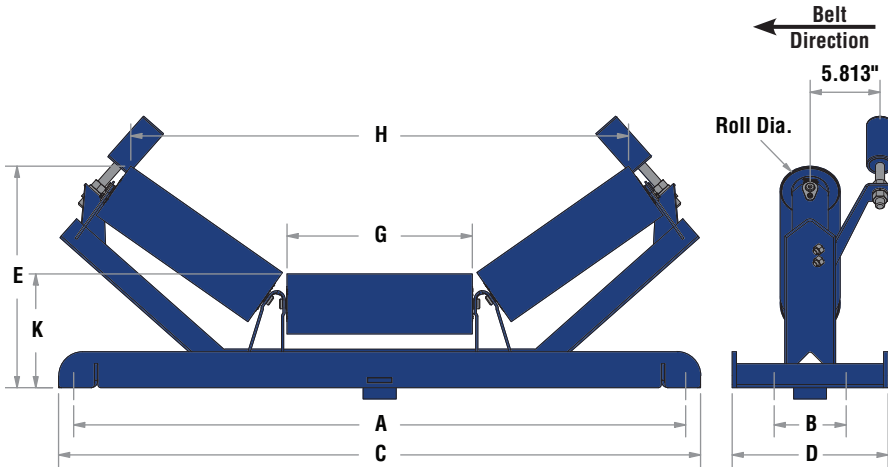
Belt Width	5" Roll Diameter			6" Roll Diameter		
	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll
24	D5-FRD-24-1	37	D5-FRD-24	D6-FRD-24-1	42	D6-FRD-24
30	D5-FRD-30-1	44	D5-FRD-30	D6-FRD-30-1	50	D6-FRD-30
36	D5-FRD-36-1	51	D5-FRD-36	D6-FRD-36-1	58	D6-FRD-36
42	D5-FRD-42-1	58	D5-FRD-42	D6-FRD-42-1	67	D6-FRD-42
48	D5-FRD-48-1	65	D5-FRD-48	D6-FRD-48-1	75	D6-FRD-48
54	D5-FRD-54-1	72	D5-FRD-54	D6-FRD-54-1	83	D6-FRD-54
60	D5-FRD-60-1	79	D5-FRD-60	D6-FRD-60-1	92	D6-FRD-60
72	D5-FRD-72-1	94	D5-FRD-72	D6-FRD-72-1	108	D6-FRD-72

Impact Flat Carry (E = 4.5")

Belt Width	5" Roll Diameter			6" Roll Diameter		
	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll
24	D5-FRD-24-4	39	D5-FRD-24	D6-FRD-24-4	44	D6-FRD-24
30	D5-FRD-30-4	46	D5-FRD-30	D6-FRD-30-4	52	D6-FRD-30
36	D5-FRD-36-4	53	D5-FRD-36	D6-FRD-36-4	60	D6-FRD-36
42	D5-FRD-42-4	60	D5-FRD-42	D6-FRD-42-4	69	D6-FRD-42
48	D5-FRD-48-4	67	D5-FRD-48	D6-FRD-48-4	77	D6-FRD-48
54	D5-FRD-54-4	74	D5-FRD-54	D6-FRD-54-4	85	D6-FRD-54
60	D5-FRD-60-4	81	D5-FRD-60	D6-FRD-60-4	94	D6-FRD-60
72	D5-FRD-72-4	96	D5-FRD-72	D6-FRD-72-4	110	D6-FRD-72

Note: Brackets Also Sold Separately (page N-65).

CEMA D Equal Steel Idler Self-Aligners



Belt Width	Standard Dimensions					Wide Base	
	A	B	C	D	G	Aw*	Cw*
24	33	3.69	35.5	13	8.94	39	41.5
30	39	3.69	41.5	13	11.13	45	47.5
36	45	3.69	47.5	13	13.25	51	53.5
42	51	3.69	53.5	13	15.44	57	59.5
48	57	3.69	59.5	13	17.63	63	65.5
54	63	3.69	65.5	13	19.75	69	71.5
60	69	3.69	71.5	13	21.75	75	77.5
72	81	3.69	83.5	13	26	87	89.5

*Dimension not shown; for wide base.

20° Equal Steel Idler Self-Aligners

Belt Width	5" Roll Diameter						6" Roll Diameter					
	Part Number	E	H	K	Wt.	Replacement Roll	Part Number	E	H	K	Wt.	Replacement Roll
24	D5-20TSA-24-09	12.69	26.94	9.5	102	D5-T-24-09	D6-20TSA-24-09	13.13	26.56	10	110	D6-T-24-09
30	D5-20TSA-30-09	13.44	33.25	9.5	114	D5-T-30-09	D6-20TSA-30-09	13.88	32.88	10	122	D6-T-30-09
36	D5-20TSA-36-09	14.13	39.31	9.5	128	D5-T-36-09	D6-20TSA-36-09	14.63	39.00	10	135	D6-T-36-09
42	D5-20TSA-42-09	14.88	45.63	9.5	140	D5-T-42-09	D6-20TSA-42-09	15.38	45.31	10	150	D6-T-42-09
48	D5-20TSA-48-09	15.63	51.94	9.5	155	D5-T-48-09	D6-20TSA-48-09	16.13	51.56	10	163	D6-T-48-09
54	D5-20TSA-54-09	16.38	58.06	9.5	166	D5-T-54-09	D6-20TSA-54-09	16.81	57.69	10	178	D6-T-54-09
60	D5-20TSA-60-09	17.06	63.81	9.5	177	D5-T-60-09	D6-20TSA-60-09	17.50	63.44	10	190	D6-T-60-09
72	D5-20TSA-72-09	18.25	76.06	9.5	200	D5-T-72-09	D6-20TSA-72-09	18.94	75.69	10	212	D6-T-72-09

35° Equal Steel Idler Self-Aligners

Belt Width	5" Roll Diameter						6" Roll Diameter					
	Part Number	E	H	K	Wt.	Replacement Roll	Part Number	E	H	K	Wt.	Replacement Roll
24	D5-35TSA-24-09	14.69	24.31	9.5	104	D5-T-24-09	D6-35TSA-24-09	15.13	23.75	10	111	D6-T-24-09
30	D5-35TSA-30-09	16.00	30.13	9.5	116	D5-T-30-09	D6-35TSA-30-09	16.38	29.50	10	123	D6-T-30-09
36	D5-35TSA-36-09	17.19	35.69	9.5	130	D5-T-36-09	D6-35TSA-36-09	17.63	35.13	10	137	D6-T-36-09
42	D5-35TSA-42-09	18.44	41.50	9.5	142	D5-T-42-09	D6-35TSA-42-09	18.88	40.94	10	151	D6-T-42-09
48	D5-35TSA-48-09	19.69	47.25	9.5	157	D5-T-48-09	D6-35TSA-48-09	20.13	46.69	10	165	D6-T-48-09
54	D5-35TSA-54-09	20.98	52.88	9.5	168	D5-T-54-09	D6-35TSA-54-09	21.31	52.31	10	180	D6-T-54-09
60	D5-35TSA-60-09	22.06	58.13	9.5	179	D5-T-60-09	D6-35TSA-60-09	22.50	57.56	10	191	D6-T-60-09
72	D5-35TSA-72-09	24.50	69.38	9.5	203	D5-T-72-09	D6-35TSA-72-09	24.94	68.75	10	215	D6-T-72-09

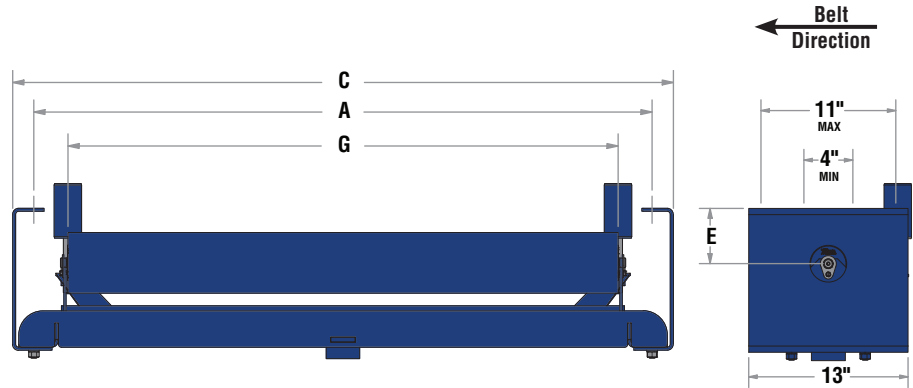
45° Equal Steel Idler Self-Aligners

Belt Width	5" Roll Diameter						6" Roll Diameter					
	Part Number	E	H	K	Wt.	Replacement Roll	Part Number	E	H	K	Wt.	Replacement Roll
24	D5-45TSA-24-09	16.00	22.50	9.5	105	D5-T-24-09	D6-45TSA-24-09	16.31	21.81	10	113	D6-T-24-09
30	D5-45TSA-30-09	17.56	27.75	9.5	117	D5-T-30-09	D6-45TSA-30-09	17.88	27.06	10	126	D6-T-30-09
36	D5-45TSA-36-09	19.06	32.94	9.5	132	D5-T-36-09	D6-45TSA-36-09	19.38	32.25	10	139	D6-T-36-09
42	D5-45TSA-42-09	20.63	38.25	9.5	143	D5-T-42-09	D6-45TSA-42-09	20.94	37.50	10	154	D6-T-42-09
48	D5-45TSA-48-09	22.13	43.50	9.5	158	D5-T-48-09	D6-45TSA-48-09	22.50	42.75	10	167	D6-T-48-09
54	D5-45TSA-54-09	23.63	48.63	9.5	170	D5-T-54-09	D6-45TSA-54-09	24.00	47.94	10	182	D6-T-54-09
60	D5-45TSA-60-09	25.06	53.38	9.5	179	D5-T-60-09	D6-45TSA-60-09	25.44	52.75	10	194	D6-T-60-09
72	D5-45TSA-72-09	28.00	63.69	9.5	204	D5-T-72-09	D6-45TSA-72-09	28.44	63.00	10	216	D6-T-72-09

Shoe-Type Self-Aligner Available

Belt Width	Standard Dimensions					Wide Base	
	A	B	C	D	G	Aw*	Cw*
24	33	3.69	36.5	13	8.94	39	42.5
30	39	3.69	42.5	13	11.13	45	48.5
36	45	3.69	48.5	13	13.25	51	54.5
42	51	3.69	54.5	13	15.44	57	60.5
48	57	3.69	60.5	13	17.63	63	66.5
54	63	3.69	66.5	13	19.75	69	72.5
60	69	3.69	72.5	13	21.75	75	78.5
72	81	3.69	84.5	13	26	87	90.5

*Dimension not shown; for wide base.



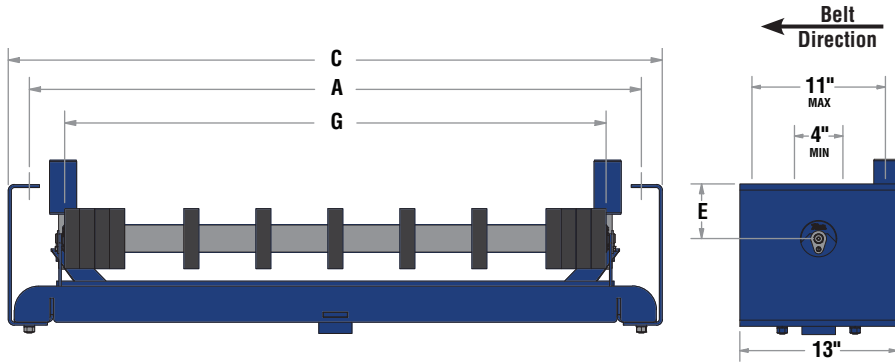
Steel Return Self-Aligners (E = 1.5")

Belt Width	5" Roll Diameter			6" Roll Diameter		
	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll
24	D5-RSA1-24-09	117	D5-R-24-09	D6-RSA1-24-09	121	D6-R-24-09
30	D5-RSA1-30-09	130	D5-R-30-09	D6-RSA1-30-09	135	D6-R-30-09
36	D5-RSA1-36-09	142	D5-R-36-09	D6-RSA1-36-09	146	D6-R-36-09
42	D5-RSA1-42-09	153	D5-R-42-09	D6-RSA1-42-09	158	D6-R-42-09
48	D5-RSA1-48-09	164	D5-R-48-09	D6-RSA1-48-09	171	D6-R-48-09
54	D5-RSA1-54-09	176	D5-R-54-09	D6-RSA1-54-09	184	D6-R-54-09
60	D5-RSA1-60-09	188	D5-R-60-09	D6-RSA1-60-09	196	D6-R-60-09
72	D5-RSA1-72-09	211	D5-R-72-09	D6-RSA1-72-09	221	D6-R-72-09

Steel Return Self-Aligners (E = 4.5")

Belt Width	5" Roll Diameter			6" Roll Diameter		
	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll
24	D5-RSA4-24-09	122	D5-R-24-09	D6-RSA4-24-09	126	D6-R-24-09
30	D5-RSA4-30-09	134	D5-R-30-09	D6-RSA4-30-09	139	D6-R-30-09
36	D5-RSA4-36-09	149	D5-R-36-09	D6-RSA4-36-09	151	D6-R-36-09
42	D5-RSA4-42-09	158	D5-R-42-09	D6-RSA4-42-09	163	D6-R-42-09
48	D5-RSA4-48-09	169	D5-R-48-09	D6-RSA4-48-09	176	D6-R-48-09
54	D5-RSA4-54-09	181	D5-R-54-09	D6-RSA4-54-09	189	D6-R-54-09
60	D5-RSA4-60-09	193	D5-R-60-09	D6-RSA4-60-09	201	D6-R-60-09
72	D5-RSA4-72-09	216	D5-R-72-09	D6-RSA4-72-09	226	D6-R-72-09

CEMA D Rubber Disc Return Self-Aligners



Belt Width	Standard Dimensions					Wide Base	
	A	B	C	D	G	Aw*	Cw*
24	33	3.69	36.5	13	8.94	39	42.5
30	39	3.69	42.5	13	11.13	45	48.5
36	45	3.69	48.5	13	13.25	51	54.5
42	51	3.69	54.5	13	15.44	57	60.5
48	57	3.69	60.5	13	17.63	63	66.5
54	63	3.69	66.5	13	19.75	69	72.5
60	69	3.69	72.5	13	21.75	75	78.5
72	81	3.69	84.5	13	26	87	90.5

*Dimension not shown; for wide base.

Rubber Disc Return Self-Aligners (E = 1.5")

Belt Width	5" Roll Diameter			6" Roll Diameter		
	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll
24	D5-RRDSA1-24	116	D5-RRD-24	D6-RRDSA1-24	120	D6-RRD-24
30	D5-RRDSA1-30	129	D5-RRD-30	D6-RRDSA1-30	134	D6-RRD-30
36	D5-RRDSA1-36	140	D5-RRD-36	D6-RRDSA1-36	143	D6-RRD-36
42	D5-RRDSA1-42	151	D5-RRD-42	D6-RRDSA1-42	155	D6-RRD-42
48	D5-RRDSA1-48	161	D5-RRD-48	D6-RRDSA1-48	167	D6-RRD-48
54	D5-RRDSA1-54	173	D5-RRD-54	D6-RRDSA1-54	180	D6-RRD-54
60	D5-RRDSA1-60	185	D5-RRD-60	D6-RRDSA1-60	192	D6-RRD-60
72	D5-RRDSA1-72	209	D5-RRD-72	D6-RRDSA1-72	217	D6-RRD-72

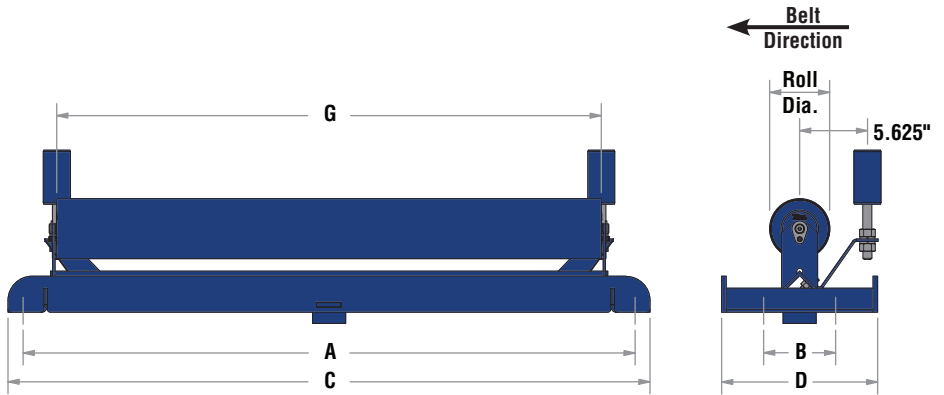
Rubber Disc Return Self-Aligners (E = 4.5")

Belt Width	5" Roll Diameter			6" Roll Diameter		
	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll
24	D5-RRDSA4-24	121	D5-RRD-24	D6-RRDSA4-24	125	D6-RRD-24
30	D5-RRDSA4-30	133	D5-RRD-30	D6-RRDSA4-30	138	D6-RRD-30
36	D5-RRDSA4-36	147	D5-RRD-36	D6-RRDSA4-36	148	D6-RRD-36
42	D5-RRDSA4-42	156	D5-RRD-42	D6-RRDSA4-42	160	D6-RRD-42
48	D5-RRDSA4-48	166	D5-RRD-48	D6-RRDSA4-48	173	D6-RRD-48
54	D5-RRDSA4-54	178	D5-RRD-54	D6-RRDSA4-54	185	D6-RRD-54
60	D5-RRDSA4-60	190	D5-RRD-60	D6-RRDSA4-60	197	D6-RRD-60
72	D5-RRDSA4-72	213	D5-RRD-72	D6-RRDSA4-72	222	D6-RRD-72

Shoe-Type Self-Aligner Available

Belt Width	Standard Dimensions					Wide Base	
	A	B	C	D	G	Aw*	Cw*
24	33	3.69	35.5	13	27.38	39	41.5
30	39	3.69	41.5	13	33.38	45	47.5
36	45	3.69	47.5	13	39.38	51	53.5
42	51	3.69	53.5	13	45.38	57	59.5
48	57	3.69	59.5	13	51.38	63	65.5
54	63	3.69	65.5	13	57.38	69	71.5
60	69	3.69	71.5	13	63.38	75	77.5
72	81	3.69	83.5	13	75.38	87	89.5

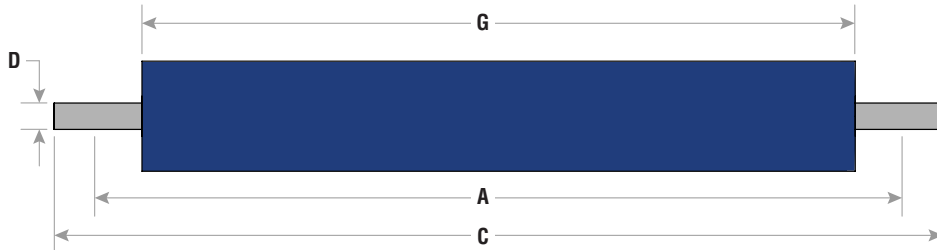
*Dimension not shown; for wide base.



Steel Flat Carry Self-Aligners

Belt Width	5" Roll Diameter			6" Roll Diameter		
	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll
24	D5-FSA-24-09	93	D5-R-24-09	D6-FSA-24-09	97	D6-R-24-09
30	D5-FSA-30-09	106	D5-R-30-09	D6-FSA-30-09	111	D6-R-30-09
36	D5-FSA-36-09	118	D5-R-36-09	D6-FSA-36-09	122	D6-R-36-09
42	D5-FSA-42-09	129	D5-R-42-09	D6-FSA-42-09	134	D6-R-42-09
48	D5-FSA-48-09	140	D5-R-48-09	D6-FSA-48-09	147	D6-R-48-09
54	D5-FSA-54-09	152	D5-R-54-09	D6-FSA-54-09	160	D6-R-54-09
60	D5-FSA-60-09	164	D5-R-60-09	D6-FSA-60-09	172	D6-R-60-09
72	D5-FSA-72-09	187	D5-R-72-09	D6-FSA-72-09	197	D6-R-72-09

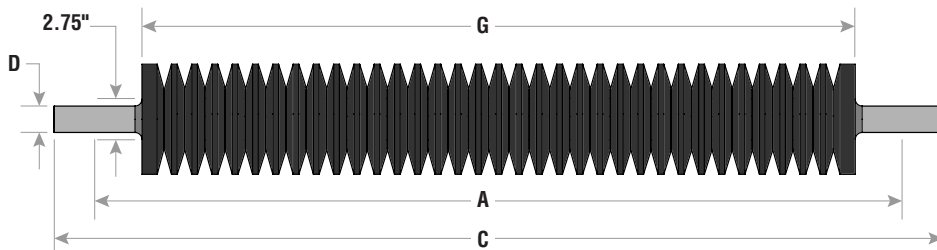
CEMA D Live Shaft Rolls



Belt Width	Standard Dimensions		
	A	C	G
24	33	37.75	27.38
30	39	43.75	33.38
36	45	49.75	39.38
42	51	55.75	45.38
48	57	61.75	51.38
54	63	67.75	57.38
60	69	73.75	63.38
72	81	85.75	75.38

Steel Live Shaft Roll

Belt Width	5" Roll Diameter		6" Roll Diameter	
	Part Number	Wt.	Part Number	Wt.
	D = 1.94"		D = 1.94"	
24	D5-LR31-24-09	59	D6-LR31-24-09	64
30	D5-LR31-30-09	71	D6-LR31-30-09	77
36	D5-LR31-36-09	81	D6-LR31-36-09	89
42	D5-LR31-42-09	93	D6-LR31-42-09	101
48	D5-LR31-48-09	103	D6-LR31-48-09	112
54	D5-LR31-54-09	115	D6-LR31-54-09	125
60	D5-LR31-60-09	125	D6-LR31-60-09	136
72	D5-LR31-72-09	148	D6-LR31-72-09	159

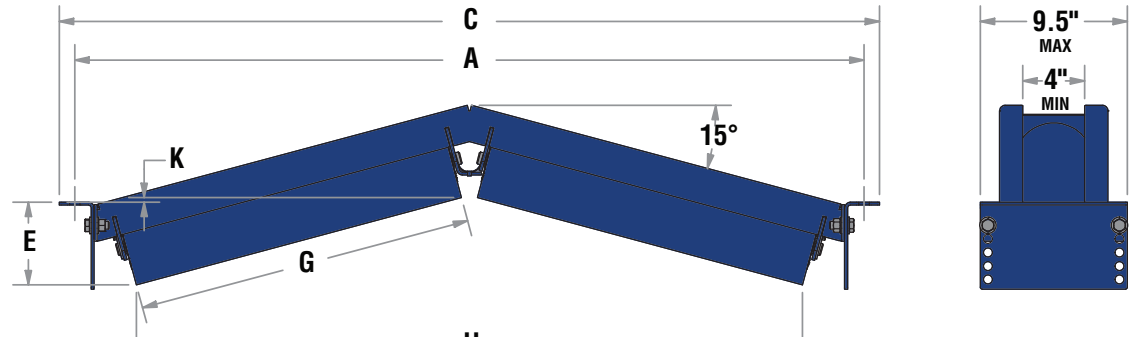


Belt Width	Standard Dimensions		
	A	C	G
24	33	37.75	27.38
30	39	43.75	33.38
36	45	49.75	39.38
42	51	55.75	45.38
48	57	61.75	51.38
54	63	67.75	57.38
60	69	73.75	63.38
72	81	85.75	75.38

Impact Live Shaft Roll

Belt Width	5" Roll Diameter		6" Roll Diameter	
	Part Number	Wt.	Part Number	Wt.
	D = 1.94"		D = 1.94"	
24	D5-LI31-24	78	D6-LI31-24	85
30	D5-LI31-30	94	D6-LI31-30	101
36	D5-LI31-36	108	D6-LI31-36	118
42	D5-LI31-42	123	D6-LI31-42	134
48	D5-LI31-48	137	D6-LI31-48	150
54	D5-LI31-54	153	D6-LI31-54	167
60	D5-LI31-60	166	D6-LI31-60	183
72	D5-LI31-72	195	D6-LI31-72	216

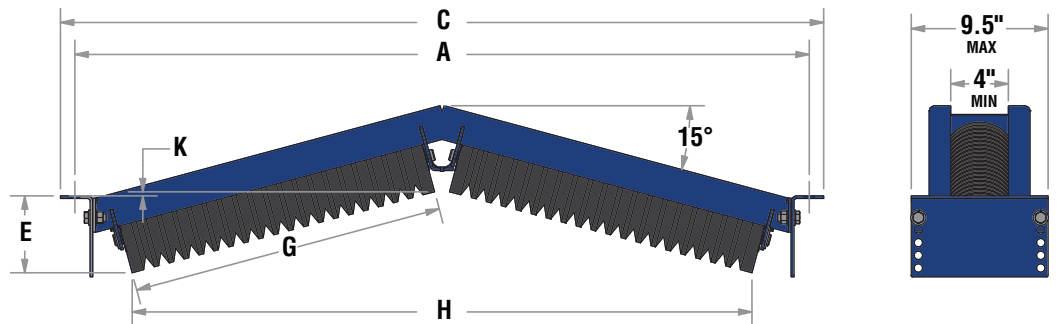
Belt Width	Standard Dimensions		
	A	C	G
24	33	35	13.25
30	39	41	15.44
36	45	47	17.63
42	51	53	21.75
48	57	59	23.38
54	63	65	27.38
60	69	71	30.88
72	81	83	37



Steel Inverted V>Returns

Belt Width	5" Roll Diameter						6" Roll Diameter					
	Part Number	E	H	K	Wt.	Replacement Rolls	Part Number	E	H	K	Wt.	Replacement Rolls
24	D5-15IV-24-09	5.50	26.63	2.00	55	D5-T-36-09	D6-15IV-24-09	6.00	26.38	2.50	59	D6-T-36-09
30	D5-15IV-30-09	5.25	30.94	1.25	61	D5-T-42-09	D6-15IV-30-09	5.75	30.63	1.75	66	D6-T-42-09
36	D5-15IV-36-09	5.00	35.00	0.44	69	D5-T-48-09	D6-15IV-36-09	5.50	34.81	0.94	74	D6-T-48-09
42	D5-15IV-42-09	5.25	43.00	0.38	78	D5-T-60-09	D6-15IV-42-09	5.75	42.75	0.13	84	D6-T-60-09
48	D5-15IV-48-09	4.88	46.19	1.13	81	D5-R-20-09	D6-15IV-48-09	5.38	45.94	0.69	89	D6-R-20-09
54	D5-15IV-54-09	5.13	53.94	2.00	91	D5-R-24-09	D6-15IV-54-09	5.63	53.69	1.50	99	D6-R-24-09
60	D5-15IV-60-09	5.25	60.69	2.75	100	D5-IV-60-09	D6-15IV-60-09	5.75	60.44	2.25	110	D6-IV-60-09
72	D5-15IV-72-09	5.25	75.5	4.31	116	D5-IV-72-09	D6-15IV-72-09	5.75	72.25	3.81	127	D6-IV-72-09

Belt Width	Standard Dimensions		
	A	C	G
24	33	35	13.25
30	39	41	15.44
36	45	47	17.63
42	51	53	21.75
48	57	59	23.38
54	63	65	27.38
60	69	71	30.88
72	81	83	37



Rubber Disc Inverted V>Returns

Belt Width	5" Roll Diameter						6" Roll Diameter					
	Part Number	E	H	K	Wt.	Replacement Roll	Part Number	E	H	K	Wt.	Replacement Roll
24	D5-15IVRD-24	5.50	26.63	2.00	55	D5-TI-36	D6-15IVRD-24	6.00	26.38	2.50	59	D6-TI-36
30	D5-15IVRD-30	5.25	30.94	1.25	63	D5-TI-42	D6-15IVRD-30	5.75	30.63	1.75	68	D6-TI-42
36	D5-15IVRD-36	5.00	35.00	0.44	72	D5-TI-48	D6-15IVRD-36	5.50	34.81	0.94	78	D6-TI-48
42	D5-15IVRD-42	5.25	43.00	0.38	82	D5-TI-60	D6-15IVRD-42	5.75	42.75	0.13	88	D6-TI-60
48	D5-15IVRD-48	4.88	46.19	1.13	86	D5-FRD-20	D6-15IVRD-48	5.38	45.94	0.69	95	D6-FRD-20
54	D5-15IVRD-54	5.13	53.94	2.00	96	D5-FRD-24	D6-15IVRD-54	5.63	53.69	1.50	106	D6-FRD-24
60	D5-15IVRD-60	5.25	60.69	2.75	107	D5-IVRD-60	D6-15IVRD-60	5.75	60.44	2.25	117	D6-IVRD-60
72	D5-15IVRD-72	5.25	75.5	4.31	124	D5-IVRD-72	D6-15IVRD-72	5.75	72.25	3.81	138	D6-IVRD-72

CEMA E Series Idler Features & Benefits

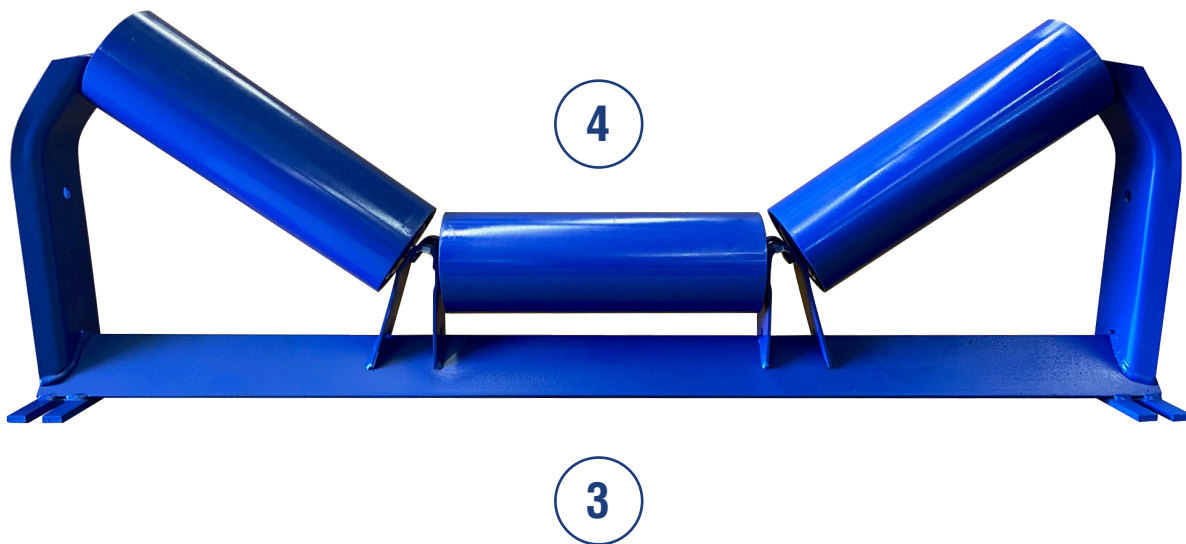


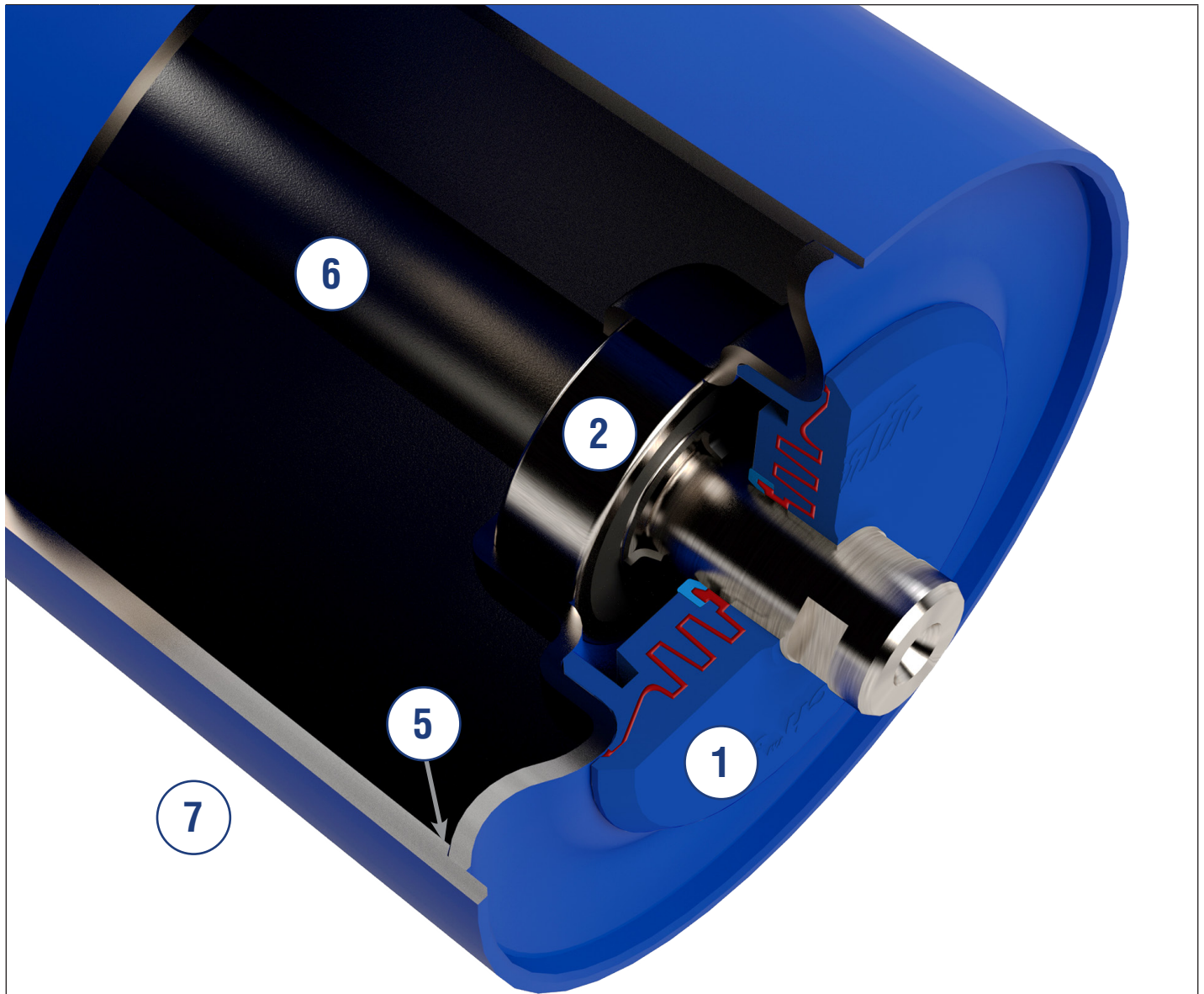
The E Series Idler sets a standard for the industry

- Manufactured using sealed for life ball bearings for long maintenance free operation
- *Martin* Triple Labyrinth Seal guard bearing protection
- Conform to all CEMA E load and dimensional requirements
- *Martin* Triple Labyrinth Seal Guard offers a balance of seal performance and low rolling resistance
- Protected roll weld

CEMA E Load Ratings

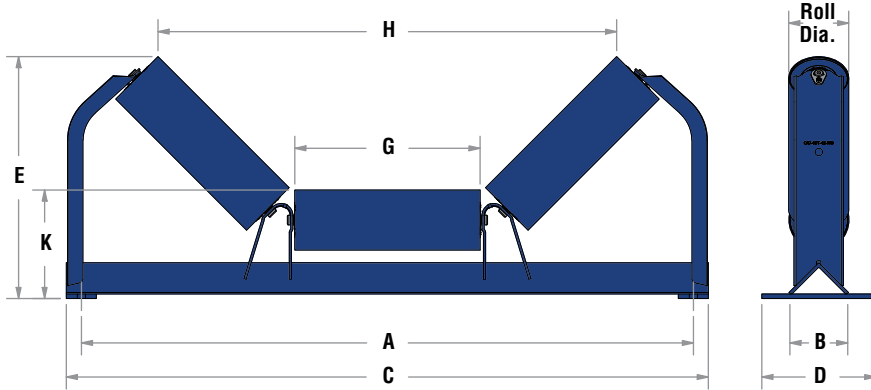
Belt Width	Troughing Angle			Steel Return & Flat	Unequal (Picking)	Live Shaft
	20°	35°	45°			
36	1800	1800	1800	1000	1260	–
42	1800	1800	1800	1000	1200	2100
48	1800	1800	1800	1000	1000	2100
54	1800	1800	1800	925	1000	2100
60	1800	1800	1800	850	1000	2100
66	1800	1800	1800	775	1000	2100
72	1800	1800	1800	700	925	2100
78	–	–	–	625	–	–
84	1800	1674	1620	550	775	1825
90	–	–	–	475	–	–
96	1750	1628	1575	400	625	–
102	–	–	–	250	–	–
Two Steel V>Returns (All)				1300	–	–





1	<p><i>Martin</i> Triple Labyrinth Seal design offers the following exclusive <i>Martin</i> bearing protection</p> <ul style="list-style-type: none"> • External shield deters impurities from entering the bearing housing • Flinger design removes contaminants away from the bearing housing by centrifugal force • Grease is injected into the labyrinth chambers during manufacturing to add an additional layer of protection against bearing contamination • The contact lip seal adds an additional level of protection against moisture & fine particulate contaminants
2	CEMA E Idlers have sealed for life ball bearings.
3	CEMA E Idlers standard product line is 36" to 96" belt widths.
4	<i>Martin</i> CEMA E Idlers offer low rolling resistance that allows for lower operating cost
5	Recessed & protected bearing housing weld protects against wear from belt
6	Oversized, solid steel shaft machined to 40 mm for bearings
7	<i>Martin</i> Idlers have low TIR

CEMA E Equal Steel Idlers



Belt Width	Standard Dimensions					Wide Base	
	A	B	C	D	G	Aw*	Cw*
36	45	7.5	48.5	12	13	51	54.5
42	51	7.5	54.5	12	15	57	62.5
48	57	7.5	62.5	12	17.75	63	68
54	63	7.5	68	12	19.75	69	74
60	69	7.5	74	12	21.75	75	80
66	75	7.5	80	12	23.75	81	85.5
72	81	7.5	85.5	12	25.75	87	91.5
84	93	9	97	14.5	29.75	99	103.5
96	105	9	108.5	14.5	33.75	111	115.5

*Dimension not shown; for wide base.

20° Equal Steel Idlers

Belt Width	6" Roll Diameter						7" Roll Diameter					
	Part Number	E	H	K	Wt.	Replacement Roll	Part Number	E	H	K	Wt.	Replacement Roll
36	E6-20T-36-07	15.38	39.50	10.75	132	E6-T-36-07	E7-20T-36-04	15.81	39.19	11.25	158	E7-T-36-04
42	E6-20T-42-07	16.06	45.25	10.75	145	E6-T-42-07	E7-20T-42-04	16.50	44.94	11.25	173	E7-T-42-04
48	E6-20T-48-07	17.00	53.19	10.75	163	E6-T-48-07	E7-20T-48-04	17.44	52.81	11.25	197	E7-T-48-04
54	E6-20T-54-07	17.69	58.94	10.75	176	E6-T-54-07	E7-20T-54-04	18.13	58.63	11.25	214	E7-T-54-04
60	E6-20T-60-07	18.38	64.69	10.75	190	E6-T-60-07	E7-20T-60-04	18.81	64.38	11.25	231	E7-T-60-04
66	E6-20T-66-07	19.41	70.44	11.50	229	E6-T-66-07	E7-20T-66-04	19.88	70.13	12.00	271	E7-T-66-04
72	E6-20T-72-07	20.44	76.19	11.50	242	E6-T-72-07	E7-20T-72-04	20.94	75.88	12.00	290	E7-T-72-04
84	E6-20T-84-07	21.94	87.75	11.63	275	E6-T-84-07	E7-20T-84-04	22.44	87.38	12.13	331	E7-T-84-04
96	E6-20T-96-07	23.31	99.25	11.63	305	E6-T-96-07	E7-20T-96-04	23.81	98.94	12.13	368	E7-T-96-04

35° Equal Steel Idlers

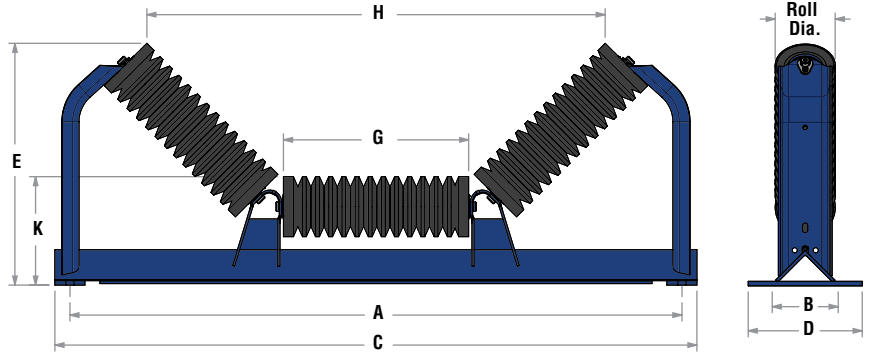
Belt Width	6" Roll Diameter						7" Roll Diameter					
	Part Number	E	H	K	Wt.	Replacement Roll	Part Number	E	H	K	Wt.	Replacement Roll
36	E6-35T-36-07	18.44	35.63	10.75	136	E6-T-36-07	E7-35T-36-04	18.81	35.06	11.25	161	E7-T-36-04
42	E6-35T-42-07	19.56	40.94	10.75	150	E6-T-42-07	E7-35T-42-04	19.94	40.31	11.25	177	E7-T-42-04
48	E6-35T-48-07	21.13	48.19	10.75	169	E6-T-48-07	E7-35T-48-04	21.56	47.56	11.25	201	E7-T-48-04
54	E6-35T-54-07	22.25	53.44	10.75	182	E6-T-54-07	E7-35T-54-04	22.69	52.88	11.25	218	E7-T-54-04
60	E6-35T-60-07	23.44	58.69	10.75	196	E6-T-60-07	E7-35T-60-04	23.81	58.13	11.25	236	E7-T-60-04
66	E6-35T-66-07	24.94	63.97	11.50	235	E6-T-66-07	E7-35T-66-04	25.34	63.41	12.00	277	E7-T-66-04
72	E6-35T-72-07	26.44	69.25	11.50	250	E6-T-72-07	E7-35T-72-04	26.88	68.69	12.00	296	E7-T-72-04
84	E6-35T-84-07	28.88	79.81	11.63	285	E6-T-84-07	E7-35T-84-04	29.25	79.25	12.13	338	E7-T-84-04
96	E6-35T-96-07	31.19	90.38	11.63	315	E6-T-96-07	E7-35T-96-04	31.56	89.81	12.13	375	E7-T-96-04

45° Equal Steel Idlers

Belt Width	6" Roll Diameter						7" Roll Diameter					
	Part Number	E	H	K	Wt.	Replacement Roll	Part Number	E	H	K	Wt.	Replacement Roll
36	E6-45T-36-07	20.25	32.88	10.75	138	E6-T-36-07	E7-45T-36-04	20.63	32.19	11.25	163	E7-T-36-04
42	E6-45T-42-07	21.69	37.75	10.75	152	E6-T-42-07	E7-45T-42-04	22.00	37.00	11.25	180	E7-T-42-04
48	E6-45T-48-07	23.63	44.38	10.75	171	E6-T-48-07	E7-45T-48-04	24.00	43.69	11.25	204	E7-T-48-04
54	E6-45T-54-07	25.00	49.19	10.75	184	E6-T-54-07	E7-45T-54-04	25.38	48.50	11.25	221	E7-T-54-04
60	E6-45T-60-07	26.44	54.00	10.75	198	E6-T-60-07	E7-45T-60-04	26.81	53.31	11.25	239	E7-T-60-04
66	E6-45T-66-07	28.22	58.84	11.50	237	E6-T-66-07	E7-45T-66-04	28.59	58.16	12.00	279	E7-T-66-04
72	E6-45T-72-07	30.00	63.69	11.50	252	E6-T-72-07	E7-45T-72-04	30.38	63.00	12.00	299	E7-T-72-04
84	E6-45T-84-07	33.00	73.31	11.63	287	E6-T-84-07	E7-45T-84-04	33.31	72.63	12.13	342	E7-T-84-04
96	E6-45T-96-07	35.81	83.00	11.63	318	E6-T-96-07	E7-45T-96-04	36.19	82.31	12.13	379	E7-T-96-04

Belt Width	Standard Dimensions					Wide Base	
	A	B	C	D	G	Aw*	Cw*
36	45	7.5	48.5	12	13	51	54.5
42	51	7.5	54.5	12	15	57	62.5
48	57	7.5	62.5	12	17.75	63	68
54	63	7.5	68	12	19.75	69	74
60	69	7.5	74	12	21.75	75	80
66	75	7.5	80	12	23.75	81	85.5
72	81	7.5	85.5	12	25.75	87	91.5
84	93	9	97	14.5	29.75	99	103.5
96	105	9	108.5	14.5	33.75	111	115.5

*Dimension not shown; for wide base.



20° Equal Impact Idlers

Belt Width	6" Roll Diameter						7" Roll Diameter					
	Part Number	E	H	K	Wt.	Replacement Roll	Part Number	E	H	K	Wt.	Replacement Roll
36	E6-20TI-36	15.38	39.50	10.75	178	E6-TI-36	E7-20TI-36	15.81	39.19	11.25	188	E7-TI-36
42	E6-20TI-42	16.06	45.25	10.75	198	E6-TI-42	E7-20TI-42	16.50	44.94	11.25	210	E7-TI-42
48	E6-20TI-48	17.00	53.19	10.75	226	E6-TI-48	E7-20TI-48	17.44	52.81	11.25	239	E7-TI-48
54	E6-20TI-54	17.69	58.94	10.75	246	E6-TI-54	E7-20TI-54	18.13	58.63	11.25	260	E7-TI-54
60	E6-20TI-60	18.38	64.69	10.75	268	E6-TI-60	E7-20TI-60	18.81	64.38	11.25	285	E7-TI-60
66	E6-20TI-66	19.41	70.44	11.50	310	E6-TI-66	E7-20TI-66	19.88	70.13	12.00	328	E7-TI-66
72	E6-20TI-72	20.44	76.19	11.50	351	E6-TI-72	E7-20TI-72	20.94	75.88	12.00	370	E7-TI-72
84	E6-20TI-84	21.94	87.75	11.63	404	E6-TI-84	E7-20TI-84	22.44	87.38	12.13	426	E7-TI-84
96	E6-20TI-96	23.31	99.25	11.63	453	E6-TI-96	E7-20TI-96	23.81	98.94	12.13	479	E7-TI-96

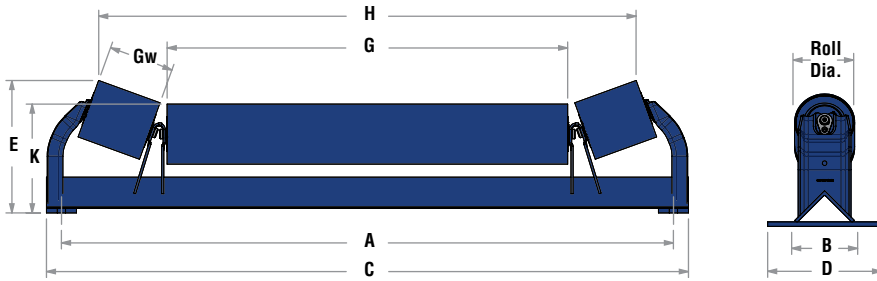
35° Equal Impact Idlers

Belt Width	6" Roll Diameter						7" Roll Diameter					
	Part Number	E	H	K	Wt.	Replacement Roll	Part Number	E	H	K	Wt.	Replacement Roll
36	E6-35TI-36	18.44	35.63	10.75	182	E6-TI-36	E7-35TI-36	18.81	35.06	11.25	193	E7-TI-36
42	E6-35TI-42	19.56	40.94	10.75	203	E6-TI-42	E7-35TI-42	19.94	40.31	11.25	215	E7-TI-42
48	E6-35TI-48	21.13	48.19	10.75	231	E6-TI-48	E7-35TI-48	21.56	47.56	11.25	245	E7-TI-48
54	E6-35TI-54	22.25	53.44	10.75	252	E6-TI-54	E7-35TI-54	22.69	52.88	11.25	267	E7-TI-54
60	E6-35TI-60	23.44	58.69	10.75	275	E6-TI-60	E7-35TI-60	23.81	58.13	11.25	292	E7-TI-60
66	E6-35TI-66	24.94	63.97	11.50	317	E6-TI-66	E7-35TI-66	25.34	63.41	12.00	335	E7-TI-66
72	E6-35TI-72	26.44	69.25	11.50	358	E6-TI-72	E7-35TI-72	26.88	68.69	12.00	378	E7-TI-72
84	E6-35TI-84	28.88	79.81	11.63	412	E6-TI-84	E7-35TI-84	29.25	79.25	12.13	435	E7-TI-84
96	E6-35TI-96	31.19	90.38	11.63	461	E6-TI-96	E7-35TI-96	31.56	89.81	12.13	488	E7-TI-96

45° Equal Impact Idlers

Belt Width	6" Roll Diameter						7" Roll Diameter					
	Part Number	E	H	K	Wt.	Replacement Roll	Part Number	E	H	K	Wt.	Replacement Roll
36	E6-45TI-36	20.25	32.88	10.75	186	E6-TI-36	E7-45TI-36	20.63	32.19	11.25	196	E7-TI-36
42	E6-45TI-42	21.69	37.75	10.75	207	E6-TI-42	E7-45TI-42	22.00	37.00	11.25	218	E7-TI-42
48	E6-45TI-48	23.63	44.38	10.75	235	E6-TI-48	E7-45TI-48	24.00	43.69	11.25	249	E7-TI-48
54	E6-45TI-54	25.00	49.19	10.75	256	E6-TI-54	E7-45TI-54	25.38	48.50	11.25	271	E7-TI-54
60	E6-45TI-60	26.44	54.00	10.75	279	E6-TI-60	E7-45TI-60	26.81	53.31	11.25	296	E7-TI-60
66	E6-45TI-66	28.22	58.84	11.50	321	E6-TI-66	E7-45TI-66	28.59	58.16	12.00	340	E7-TI-66
72	E6-45TI-72	30.00	63.69	11.50	363	E6-TI-72	E7-45TI-72	30.38	63.00	12.00	383	E7-TI-72
84	E6-45TI-84	33.00	73.31	11.63	417	E6-TI-84	E7-45TI-84	33.31	72.63	12.13	440	E7-TI-84
96	E6-45TI-96	35.81	83.00	11.63	467	E6-TI-96	E7-45TI-96	36.19	82.31	12.13	494	E7-TI-96

CEMA E Unequal Steel Idlers



Belt Width	Standard Dimensions				Wide Base	
	A	B	C	D	Aw*	Cw*
36	45	7.5	48.5	12	51	54.5
42	51	7.5	54.5	12	57	62.5
48	57	7.5	62.5	12	63	68
54	63	7.5	68	12	69	74
60	69	7.5	74	12	75	80
66	75	7.5	80	12	81	85.5
72	81	7.5	85.5	12	87	91.5
84	93	9	97	14.5	99	103.5
96	105	9	108.5	14.5	111	115.5

*Dimension not shown; for wide base.

20° Unequal Steel Idlers

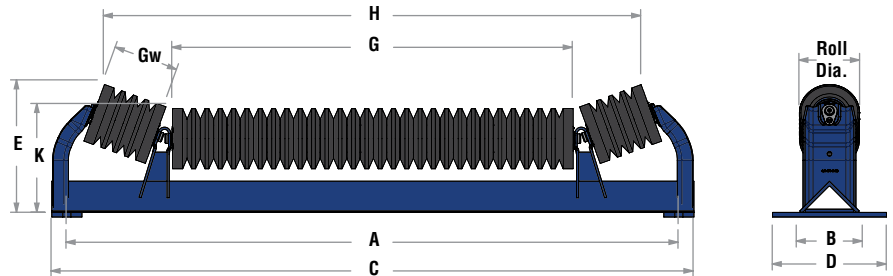
Belt Width	G	Gw	6" Roll Diameter						
			Part Number	E	H	K	Wt.	Replacement Center Roll	Replacement Wing Roll
36	21.75	7.5	E6-20U-36-07	13.5	37.94	10.75	128	E6-T-60-07	E6-T-20-07
42	25.75	7.5	E6-20U-42-07	13.5	41.94	10.75	137	E6-T-72-07	
48	33.75	7.5	E6-20U-48-07	13.5	49.94	10.75	155	E6-T-96-07	
54	40	7.5	E6-20U-54-07	13.5	56.19	10.75	167	E6-R-36-07	
60	46	7.5	E6-20U-60-07	13.5	62.19	10.75	180	E6-R-42-07	
66	52	7.5	E6-20U-66-07	14.25	68.19	11.5	218	E6-R-48-07	
72	58	7.5	E6-20U-72-07	14.25	74.19	11.5	232	E6-R-54-07	
84	70	7.5	E6-20U-84-07	14.38	86.19	11.63	261	E6-R-66-07	
96	83.5	7.5	E6-20U-96-07	14.38	99.19	11.63	284	E6-UC-96-07	

Belt Width	G	Gw	7" Roll Diameter						
			Part Number	E	H	K	Wt.	Replacement Center Roll	Replacement Wing Roll
36	21.75	7.5	E7-20U-36-04	13.94	37.5625	11.25	151	E7-T-60-04	E7-T-20-04
42	25.75	7.5	E7-20U-42-04	13.94	41.5625	11.25	163	E7-T-72-04	
48	33.75	7.5	E7-20U-48-04	13.94	49.5625	11.25	185	E7-T-96-04	
54	40	7.5	E7-20U-54-04	13.94	55.8125	11.25	201	E7-R-36-04	
60	46	7.5	E7-20U-60-04	13.94	61.8125	11.25	217	E7-R-42-04	
66	52	7.5	E7-20U-66-04	14.75	67.8125	12	259	E7-R-48-04	
72	58	7.5	E7-20U-72-04	14.75	73.8125	12	275.5	E7-R-54-04	
84	70	7.5	E7-20U-84-04	14.81	85.81	12.13	312	E7-R-66-04	
96	83.5	7.5	E7-20U-96-04	14.81	98.31	12.13	348	E7-UC-96-04	

Split Center Roll Available

Belt Width	Standard Dimensions				Wide Base	
	A	B	C	D	Aw*	Cw*
36	45	7.5	48.5	12	51	54.5
42	51	7.5	54.5	12	57	62.5
48	57	7.5	62.5	12	63	68
54	63	7.5	68	12	69	74
60	69	7.5	74	12	75	80
66	75	7.5	80	12	81	85.5
72	81	7.5	85.5	12	87	91.5
84	93	9	97	14.5	99	103.5
96	105	9	108.5	14.5	111	115.5

*Dimension not shown; for wide base.

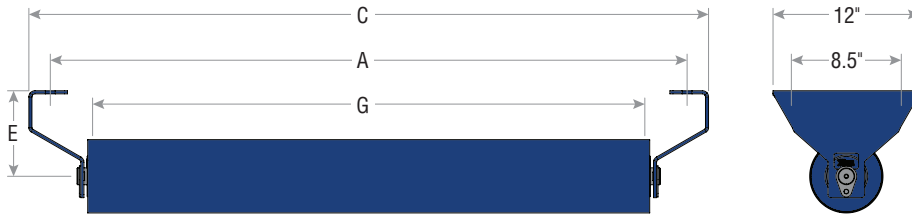


20° Unequal Impact Idlers

Belt Width	G	Gw	6" Roll Diameter						
			Part Number	E	H	K	Wt.	Replacement Center Roll	Replacement Wing Roll
36	21.75	7.5	E6-20UI-36	13.5	37.94	10.75	172	E6-TI-60	E6-TI-20
42	25.75	7.5	E6-20UI-42	13.5	41.94	10.75	188	E6-TI-72	
48	33.75	7.5	E6-20UI-48	13.5	49.94	10.75	214	E6-TI-96	
54	40	7.5	E6-20UI-54	13.5	56.19	10.75	235	E6-FRD-36	
60	46	7.5	E6-20UI-60	13.5	62.19	10.75	255	E6-FRD-42	
66	52	7.5	E6-20UI-66	14.25	68.19	11.5	296.5	E6-FRD-48	
72	58	7.5	E6-20UI-72	14.25	74.19	11.5	338	E6-FRD-54	
84	70	7.5	E6-20UI-84	14.38	86.19	11.63	385	E6-FRD-66	
96	83.5	7.5	E6-20UI-96	14.38	99.19	11.63	423	E6-UIC-96	

Belt Width	G	Gw	7" Roll Diameter						
			Part Number	E	H	K	Wt.	Replacement Center Roll	Replacement Wing Roll
36	21.75	7.5	E7-20UI-36	13.94	37.56	11.25	177	E7-TI-60	E7-TI-20
42	25.75	7.5	E7-20UI-42	13.94	41.56	11.25	194	E7-TI-72	
48	33.75	7.5	E7-20UI-48	13.94	49.56	11.25	223	E7-TI-96	
54	40	7.5	E7-20UI-54	13.94	55.81	11.25	245	E7-FRD-36	
60	46	7.5	E7-20UI-60	13.94	61.81	11.25	267	E7-FRD-42	
66	52	7.5	E7-20UI-66	14.75	67.81	12	310.5	E7-FRD-48	
72	58	7.5	E7-20UI-72	14.75	73.81	12	354	E7-FRD-54	
84	70	7.5	E7-20UI-84	14.81	85.81	12.13	403	E7-FRD-66	
96	83.5	7.5	E7-20UI-96	14.81	98.31	12.13	443	E7-UIC-96	

CEMA E Steel Returns



Belt Width	Standard Dimensions		
	A	C	G
36	45	48	40
42	51	54	46
48	57	60	52
54	63	66	58
60	69	72	64
66	75	78	70
72	81	84	76
84	93	96	88
96	105	108	100
102	111	114	106

Steel Returns (E = 4.5", Belt Saver)

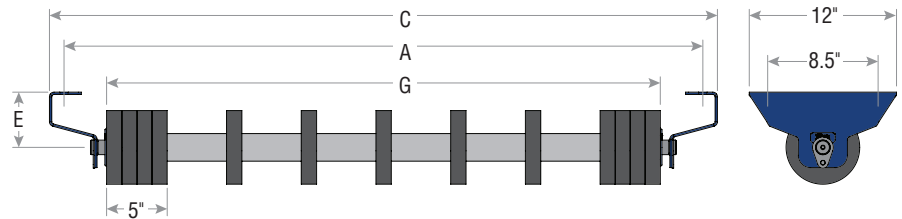
Belt Width	6" Roll Diameter			7" Roll Diameter		
	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll
36	E6-R-36-07-4S	63	E6-R-36-07	E7-R-36-04-4S	70	E7-R-36-04
42	E6-R-42-07-4S	71	E6-R-42-07	E7-R-42-04-4S	79	E7-R-42-04
48	E6-R-48-07-4S	79	E6-R-48-07	E7-R-48-04-4S	87	E7-R-48-04
54	E6-R-54-07-4S	86	E6-R-54-07	E7-R-54-04-4S	96	E7-R-54-04
60	E6-R-60-07-4S	94	E6-R-60-07	E7-R-60-04-4S	104	E7-R-60-04
66	E6-R-66-07-4S	101	E6-R-66-07	E7-R-66-04-4S	113	E7-R-66-04
72	E6-R-72-07-4S	109	E6-R-72-07	E7-R-72-04-4S	121	E7-R-72-04
84	E6-R-84-07-4S	124	E6-R-84-07	E7-R-84-04-4S	139	E7-R-84-04
96	E6-R-96-07-4S	139	E6-R-96-07	E7-R-96-04-4S	156	E7-R-96-04
102	E6-R-102-07-4S	147	E6-R-102-07	E7-R-102-04-4S	164	E7-R-102-04

Steel Returns (E = 7", Belt Saver)

Belt Width	6" Roll Diameter			7" Roll Diameter		
	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll
36	E6-R-36-07-7S	68	E6-R-36-07	E7-R-36-04-7S	75	E7-R-36-04
42	E6-R-42-07-7S	76	E6-R-42-07	E7-R-42-04-7S	84	E7-R-42-04
48	E6-R-48-07-7S	83	E6-R-48-07	E7-R-48-04-7S	92	E7-R-48-04
54	E6-R-54-07-7S	91	E6-R-54-07	E7-R-54-04-7S	101	E7-R-54-04
60	E6-R-60-07-7S	99	E6-R-60-07	E7-R-60-04-7S	109	E7-R-60-04
66	E6-R-66-07-7S	106	E6-R-66-07	E7-R-66-04-7S	118	E7-R-66-04
72	E6-R-72-07-7S	114	E6-R-72-07	E7-R-72-04-7S	126	E7-R-72-04
84	E6-R-84-07-7S	129	E6-R-84-07	E7-R-84-04-7S	143	E7-R-84-04
96	E6-R-96-07-7S	144	E6-R-96-07	E7-R-96-04-7S	161	E7-R-96-04
102	E6-R-102-07-7S	152	E6-R-102-07	E7-R-102-04-7S	169	E7-R-102-04

Note: Brackets Also Sold Separately (page N-66).

Belt Width	Standard Dimensions		
	A	C	G
36	45	48	40
42	51	54	46
48	57	60	52
54	63	66	58
60	69	72	64
66	75	78	70
72	81	84	76
84	93	96	88
96	105	108	100
102	111	114	106



Rubber Disc Returns (E = 4.5" Belt Saver)

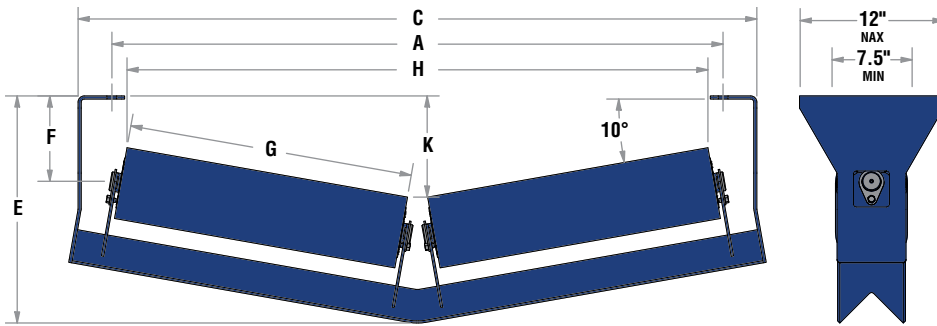
Belt Width	6" Roll Diameter			7" Roll Diameter		
	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll
36	E6-RRD-36-4S	59	E6-RRD-36	E7-RRD-36-4S	65	E7-RRD-36
42	E6-RRD-42-4S	66	E6-RRD-42	E7-RRD-42-4S	72	E7-RRD-42
48	E6-RRD-48-4S	73	E6-RRD-48	E7-RRD-48-4S	79	E7-RRD-48
54	E6-RRD-54-4S	80	E6-RRD-54	E7-RRD-54-4S	87	E7-RRD-54
60	E6-RRD-60-4S	87	E6-RRD-60	E7-RRD-60-4S	94	E7-RRD-60
66	E6-RRD-66-4S	93	E6-RRD-66	E7-RRD-66-4S	101	E7-RRD-66
72	E6-RRD-72-4S	100	E6-RRD-72	E7-RRD-72-4S	109	E7-RRD-72
84	E6-RRD-84-4S	114	E6-RRD-84	E7-RRD-84-4S	123	E7-RRD-84
96	E6-RRD-96-4S	128	E6-RRD-96	E7-RRD-96-4S	138	E7-RRD-96
102	E6-RRD-102-4S	135	E6-RRD-102	E7-RRD-102-4S	145	E7-RRD-102

Rubber Disc Returns (E = 7", Belt Saver)

Belt Width	6" Roll Diameter			7" Roll Diameter		
	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll
36	E6-RRD-36-7S	64	E6-RRD-36	E7-RRD-36-7S	69	E7-RRD-36
42	E6-RRD-42-7S	71	E6-RRD-42	E7-RRD-42-7S	77	E7-RRD-42
48	E6-RRD-48-7S	78	E6-RRD-48	E7-RRD-48-7S	84	E7-RRD-48
54	E6-RRD-54-7S	85	E6-RRD-54	E7-RRD-54-7S	91	E7-RRD-54
60	E6-RRD-60-7S	91	E6-RRD-60	E7-RRD-60-7S	99	E7-RRD-60
66	E6-RRD-66-7S	98	E6-RRD-66	E7-RRD-66-7S	106	E7-RRD-66
72	E6-RRD-72-7S	105	E6-RRD-72	E7-RRD-72-7S	113	E7-RRD-72
84	E6-RRD-84-7S	119	E6-RRD-84	E7-RRD-84-7S	128	E7-RRD-84
96	E6-RRD-96-7S	133	E6-RRD-96	E7-RRD-96-7S	143	E7-RRD-96
102	E6-RRD-102-7S	140	E6-RRD-102	E7-RRD-102-7S	150	E7-RRD-102

Note: Brackets Also Sold Separately (page N-65).

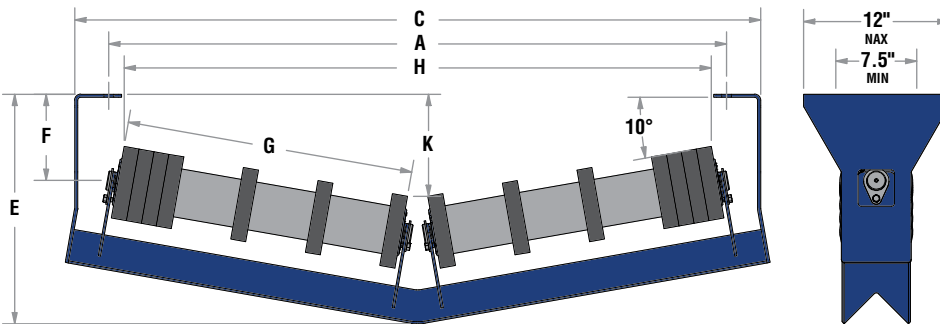
CEMA E V>Returns



Belt Width	Standard Dimensions		
	A	C	G
36	45	50.63	19.75
42	51	56.63	23.75
48	57	62.63	25.75
54	63	68.63	29.75
60	69	74.63	33.75
66	75	80.63	35.75
72	81	86.63	40
84	93	98.63	46
96	105	110.63	52

Steel V>Returns (F = 7")

Belt Width	6" Roll Diameter						7" Roll Diameter					
	Part Number	E	H	K	Wt.	Replacement Roll	Part Number	E	H	K	Wt.	Replacement Roll
36	E6-10V7-36-07	18.44	40.56	7.94	131	E6-T-54-07	E7-10V7-36-04	18.44	40.44	7.44	154	E7-T-54-04
42	E6-10V7-42-07	18.94	48.44	8.44	147	E6-T-66-07	E7-10V7-42-04	18.94	48.31	7.94	175	E7-T-66-04
48	E6-10V7-48-07	19.44	52.38	8.94	157	E6-T-72-07	E7-10V7-48-04	19.44	52.25	8.50	187	E7-T-72-04
54	E6-10V7-54-07	20	63.06	9.50	173	E6-T-84-07	E7-10V7-54-04	20	60.13	9.00	208	E7-T-84-04
60	E6-10V7-60-07	20.5	68.00	10.00	189	E6-T-96-07	E7-10V7-60-04	20.5	67.88	9.50	229	E7-T-96-04
66	E6-10V7-66-07	21.06	72.00	10.56	199	E6-V-66-07	E7-10V7-66-04	21.06	71.81	10.00	241	E7-V-66-04
72	E6-10V7-72-07	21.56	80.25	11.13	216	E6-R-36-07	E7-10V7-72-04	21.56	80.00	10.63	263	E7-R-36-04
84	E6-10V7-84-07	22.63	92.25	12.13	242	E6-R-42-07	E7-10V7-84-04	22.63	92.13	11.63	296	E7-R-42-04
96	E6-10V7-96-07	23.69	104.00	13.19	268	E6-R-48-07	E7-10V7-96-04	23.69	103.94	12.69	328	E7-R-48-04

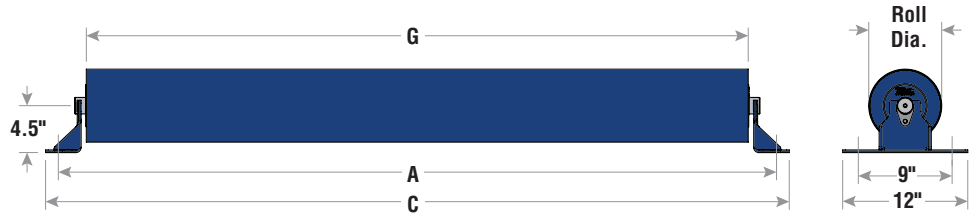


Belt Width	Standard Dimensions		
	A	C	G
36	45	50.63	19.75
42	51	56.63	23.75
48	57	62.63	25.75
54	63	68.63	29.75
60	69	74.63	33.75
66	75	80.63	35.75
72	81	86.63	40
84	93	98.63	46
96	105	110.63	52

Rubber Disc V>Returns (F = 7")

Belt Width	6" Roll Diameter						7" Roll Diameter					
	Part Number	E	H	K	Wt.	Replacement Roll	Part Number	E	H	K	Wt.	Replacement Roll
36	E6-10VRD7-36	18.44	40.56	7.94	135	E6-VRD-36	E7-10VRD7-36	18.44	40.44	7.44	139	E7-VRD-36
42	E6-10VRD7-42	18.94	48.44	8.44	151	E6-VRD-42	E7-10VRD7-42	18.94	48.31	7.94	155	E7-VRD-42
48	E6-10VRD7-48	19.44	52.38	8.94	161	E6-VRD-48	E7-10VRD7-48	19.44	52.25	8.50	167	E7-VRD-48
54	E6-10VRD7-54	20	63.06	9.50	177	E6-VRD-54	E7-10VRD7-54	20	60.13	9.00	181	E7-VRD-54
60	E6-10VRD7-60	20.5	68.00	10.00	193	E6-VRD-60	E7-10VRD7-60	20.5	67.88	9.50	203	E7-VRD-60
66	E6-10VRD7-66	21.06	72.00	10.56	207	E6-VRD-66	E7-10VRD7-66	21.06	71.81	10.00	215	E7-VRD-66
72	E6-10VRD7-72	21.56	80.25	11.13	229	E6-VRD-72	E7-10VRD7-72	21.56	80.00	10.63	242	E7-VRD-72
84	E6-10VRD7-84	22.63	92.25	12.13	257	E6-VRD-84	E7-10VRD7-84	22.63	92.13	11.63	270	E7-VRD-84
96	E6-10VRD7-96	23.69	104.00	13.19	279	E6-VRD-96	E7-10VRD7-96	23.69	103.94	12.69	298	E7-VRD-96

Belt Width	Standard Dimensions		
	A	C	G
36	45	47.5	40
42	51	53.5	46
48	57	59.5	52
54	63	65.5	58
60	69	71.5	64
66	75	77.5	70
72	81	83.5	76
84	93	95.5	88
96	105	107.5	100
102	111	113.5	106

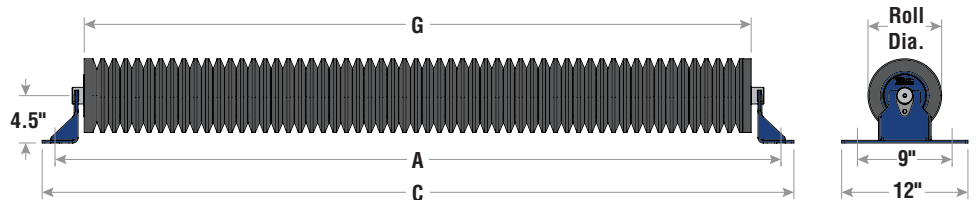


Steel Flat Carry (E = 4.5")

Belt Width	6" Roll Diameter			7" Roll Diameter		
	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll
36	E6-F-36-07-4	83	E6-R-36-07	E7-F-36-04-4	106	E7-R-36-04
42	E6-F-42-07-4	92	E6-R-42-07	E7-F-42-04-4	120	E7-R-42-04
48	E6-F-48-07-4	102	E6-R-48-07	E7-F-48-04-4	133	E7-R-48-04
54	E6-F-54-07-4	112	E6-R-54-07	E7-F-54-04-4	146	E7-R-54-04
60	E6-F-60-07-4	121	E6-R-60-07	E7-F-60-04-4	159	E7-R-60-04
66	E6-F-66-07-4	131	E6-R-66-07	E7-F-66-04-4	172	E7-R-66-04
72	E6-F-72-07-4	141	E6-R-72-07	E7-F-72-04-4	185	E7-R-72-04
84	E6-F-84-07-4	160	E6-R-84-07	E7-F-84-04-4	211	E7-R-84-04
96	E6-F-96-07-4	179	E6-R-96-07	E7-F-96-04-4	237	E7-R-96-04
102	E6-F-102-07-4	189	E6-R-102-07	E7-F-102-04-4	251	E7-R-102-04

Note: Brackets Also Sold Separately (page N-65).

Belt Width	Standard Dimensions		
	A	C	G
36	45	47.5	40
42	51	53.5	46
48	57	59.5	52
54	63	65.5	58
60	69	71.5	64
66	75	77.5	70
72	81	83.5	76
84	93	95.5	88
96	105	107.5	100
102	111	113.5	106

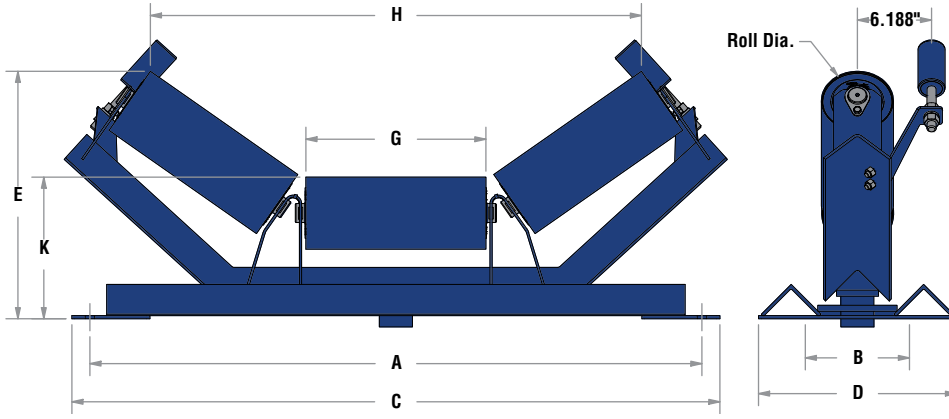


Impact Flat Carry (E = 4.5")

Belt Width	6" Roll Diameter			7" Roll Diameter		
	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll
36	E6-FRD-36-4	92	E6-FRD-36	E7-FRD-36-4	103	E7-FRD-36
42	E6-FRD-42-4	104	E6-FRD-42	E7-FRD-42-4	116	E7-FRD-42
48	E6-FRD-48-4	116	E6-FRD-48	E7-FRD-48-4	129	E7-FRD-48
54	E6-FRD-54-4	127	E6-FRD-54	E7-FRD-54-4	142	E7-FRD-54
60	E6-FRD-60-4	134	E6-FRD-60	E7-FRD-60-4	155	E7-FRD-60
66	E6-FRD-66-4	150	E6-FRD-66	E7-FRD-66-4	169	E7-FRD-66
72	E6-FRD-72-4	162	E6-FRD-72	E7-FRD-72-4	182	E7-FRD-72
84	E6-FRD-84-4	185	E6-FRD-84	E7-FRD-84-4	208	E7-FRD-84
96	E6-FRD-96-4	208	E6-FRD-96	E7-FRD-96-4	234	E7-FRD-96
102	E6-FRD-102-4	220	E6-FRD-102	E7-FRD-102-4	248	E7-FRD-102

Note: Brackets Included.

CEMA E Equal Steel Idler Self-Aligners



Belt Width	Standard Dimensions					Wide Base	
	A	B	C	D	G	Aw*	Cw*
36	45	9.5	48	16.5	13	51	54
42	51	9.5	54	16.5	15	57	60
48	57	9.5	60	16.5	17.75	63	66
54	63	9.5	66	16.5	19.75	69	72
60	69	9.5	72	16.5	21.75	75	78
66	75	9.5	78	16.5	23.75	81	84
72	81	9.5	84	16.5	25.75	87	90
84	93	9.5	96	21.5	29.75	99	102
96	105	9.5	108	21.5	33.75	111	114

*Dimension not shown; for wide base.

20° Equal Steel Idler Self-Aligners

Belt Width	6" Roll Diameter						7" Roll Diameter					
	Part Number	E	H	K	Wt.	Replacement Roll	Part Number	E	H	K	Wt.	Replacement Roll
36	E6-20TSA-36-07	16.44	39.50	11.75	196	E6-T-36-07	E7-20TSA-36-04	16.88	39.19	12.25	220	E7-T-36-04
42	E6-20TSA-42-07	17.13	45.25	11.75	214	E6-T-42-07	E7-20TSA-42-04	17.56	44.94	12.25	241	E7-T-42-04
48	E6-20TSA-48-07	18.06	53.19	11.75	238	E6-T-48-07	E7-20TSA-48-04	18.50	52.81	12.25	269	E7-T-48-04
54	E6-20TSA-54-07	18.75	58.94	11.75	256	E6-T-54-07	E7-20TSA-54-04	19.19	58.63	12.25	292	E7-T-54-04
60	E6-20TSA-60-07	19.44	64.69	11.75	275	E6-T-60-07	E7-20TSA-60-04	19.88	64.38	12.25	314	E7-T-60-04
66	E6-20TSA-66-07	20.38	70.44	12.06	294	E6-T-66-07	E7-20TSA-66-04	20.81	70.13	12.56	336	E7-T-66-04
72	E6-20TSA-72-07	21.06	76.19	12.06	312	E6-T-72-07	E7-20TSA-72-04	21.50	75.88	12.56	357	E7-T-72-04
84	E6-20TSA-84-07	22.63	87.75	12.25	423	E6-T-84-07	E7-20TSA-84-04	23.06	87.38	12.75	475	E7-T-84-04
96	E6-20TSA-96-07	23.94	99.25	12.25	469	E6-T-96-07	E7-20TSA-96-04	24.44	98.94	12.75	528	E7-T-96-04

35° Equal Steel Idler Self-Aligners

Belt Width	6" Roll Diameter						7" Roll Diameter					
	Part Number	E	H	K	Wt.	Replacement Roll	Part Number	E	H	K	Wt.	Replacement Roll
36	E6-35TSA-36-07	19.44	35.63	11.75	199	E6-T-36-07	E7-35TSA-36-04	19.88	35.06	12.25	223	E7-T-36-04
42	E6-35TSA-42-07	20.63	40.94	11.75	217	E6-T-42-07	E7-35TSA-42-04	21.00	40.31	12.25	244	E7-T-42-04
48	E6-35TSA-48-07	22.19	48.19	11.75	241	E6-T-48-07	E7-35TSA-48-04	22.63	47.56	12.25	272	E7-T-48-04
54	E6-35TSA-54-07	23.31	53.44	11.75	259	E6-T-54-07	E7-35TSA-54-04	23.75	52.88	12.25	295	E7-T-54-04
60	E6-35TSA-60-07	24.50	58.69	11.75	278	E6-T-60-07	E7-35TSA-60-04	24.88	58.13	12.25	317	E7-T-60-04
66	E6-35TSA-66-07	25.88	64.00	12.06	297	E6-T-66-07	E7-35TSA-66-04	26.31	63.44	12.56	339	E7-T-66-04
72	E6-35TSA-72-07	27.00	69.25	12.06	315	E6-T-72-07	E7-35TSA-72-04	27.44	68.69	12.56	360	E7-T-72-04
84	E6-35TSA-84-07	29.50	79.81	12.25	426	E6-T-84-07	E7-35TSA-84-04	29.94	79.25	12.75	478	E7-T-84-04
96	E6-35TSA-96-07	31.81	90.38	12.25	472	E6-T-96-07	E7-35TSA-96-04	32.19	89.81	12.75	531	E7-T-96-04

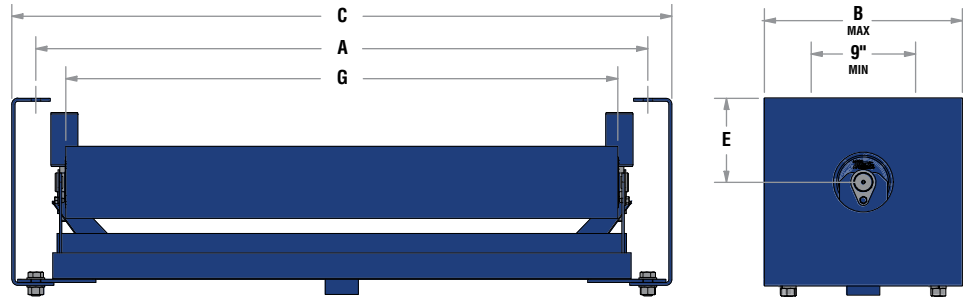
45° Equal Steel Idler Self-Aligners

Belt Width	6" Roll Diameter						7" Roll Diameter					
	Part Number	E	H	K	Wt.	Replacement Roll	Part Number	E	H	K	Wt.	Replacement Roll
36	E6-45TSA-36-07	21.31	32.88	11.75	203	E6-T-36-07	E7-45TSA-36-04	21.69	32.19	12.25	227	E7-T-36-04
42	E6-45TSA-42-07	22.75	37.75	11.75	221	E6-T-42-07	E7-45TSA-42-04	23.06	37.00	12.25	248	E7-T-42-04
48	E6-45TSA-48-07	24.69	44.38	11.75	245	E6-T-48-07	E7-45TSA-48-04	25.06	43.69	12.25	276	E7-T-48-04
54	E6-45TSA-54-07	26.13	49.19	11.75	263	E6-T-54-07	E7-45TSA-54-04	26.44	48.50	12.25	299	E7-T-54-04
60	E6-45TSA-60-07	27.50	54.00	11.75	282	E6-T-60-07	E7-45TSA-60-04	27.88	53.31	12.25	321	E7-T-60-04
66	E6-45TSA-66-07	29.19	58.88	12.06	301	E6-T-66-07	E7-45TSA-66-04	29.50	58.13	12.56	343	E7-T-66-04
72	E6-45TSA-72-07	30.56	63.69	12.06	319	E6-T-72-07	E7-45TSA-72-04	30.94	63.00	12.56	364	E7-T-72-04
84	E6-45TSA-84-07	33.63	73.31	12.25	430	E6-T-84-07	E7-45TSA-84-04	31.94	72.63	12.75	482	E7-T-84-04
96	E6-45TSA-96-07	36.44	83.00	12.25	476	E6-T-96-07	E7-45TSA-96-04	36.81	82.31	12.75	535	E7-T-96-04

Shoe-Type Self-Aligner Available

Belt Width	Standard Dimensions				Wide Base	
	A	B	C	G	Aw*	Cw*
36	45	16.5	49	40	51	55
42	51	16.5	55	46	57	61
48	57	16.5	61	52	63	67
54	63	16.5	67	58	69	73
60	69	16.5	73	64	75	79
66	75	16.5	79	70	81	85
72	81	16.5	85	76	87	91
84	93	21.5	97	88	99	103
96	105	21.5	109	100	111	115

*Dimension not shown; for wide base.



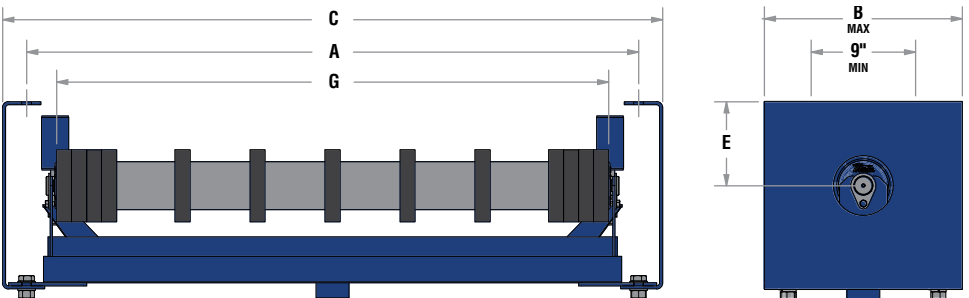
Steel Return Self-Aligners (E = 7")

Belt Width	6" Roll Diameter			7" Roll Diameter		
	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll
36	E6-RSA7-36-07	197	E6-R-36-07	E7-RSA7-36-04	221	E7-R-36-04
42	E6-RSA7-42-07	213	E6-R-42-07	E7-RSA7-42-04	240	E7-R-42-04
48	E6-RSA7-48-07	228	E6-R-48-07	E7-RSA7-48-04	258	E7-R-48-04
54	E6-RSA7-54-07	243	E6-R-54-07	E7-RSA7-54-04	277	E7-R-54-04
60	E6-RSA7-60-07	258	E6-R-60-07	E7-RSA7-60-04	295	E7-R-60-04
66	E6-RSA7-66-07	273	E6-R-66-07	E7-RSA7-66-04	314	E7-R-66-04
72	E6-RSA7-72-07	289	E6-R-72-07	E7-RSA7-72-04	333	E7-R-72-04
84	E6-RSA7-84-07	365	E6-R-84-07	E7-RSA7-84-04	416	E7-R-84-04
96	E6-RSA7-96-07	398	E6-R-96-07	E7-RSA7-96-04	456	E7-R-96-04

Shoe-Type Self-Aligner Available for Reversing Belts

Belt Width	Standard Dimensions				Wide Base	
	A	B	C	G	Aw*	Cw*
36	45	16.5	49	40	51	55
42	51	16.5	55	46	57	61
48	57	16.5	61	52	63	67
54	63	16.5	67	58	69	73
60	69	16.5	73	64	75	79
66	75	16.5	79	70	81	85
72	81	16.5	85	76	87	91
84	93	21.5	97	88	99	103
96	105	21.5	109	100	111	115

*Dimension not shown; for wide base.



Rubber Disc Return Self-Aligners (E = 7")

Belt Width	6" Roll Diameter			7" Roll Diameter		
	Part Number	Wt.	Replacement Roll	Part Number	Wt.	Replacement Roll
36	E6-RRDSA7-36	205	E6-RRD-36	E7-RRDSA7-36	229	E7-RRD-36
42	E6-RRDSA7-42	221	E6-RRD-42	E7-RRDSA7-42	248	E7-RRD-42
48	E6-RRDSA7-48	236	E6-RRD-48	E7-RRDSA7-48	264	E7-RRD-48
54	E6-RRDSA7-54	256	E6-RRD-54	E7-RRDSA7-54	290	E7-RRD-54
60	E6-RRDSA7-60	271	E6-RRD-60	E7-RRDSA7-60	308	E7-RRD-60
66	E6-RRDSA7-66	286	E6-RRD-66	E7-RRDSA7-66	327	E7-RRD-66
72	E6-RRDSA7-72	306	E6-RRD-72	E7-RRDSA7-72	350	E7-RRD-72
84	E6-RRDSA7-84	382	E6-RRD-84	E7-RRDSA7-84	433	E7-RRD-84
96	E6-RRDSA7-96	415	E6-RRD-96	E7-RRDSA7-96	473	E7-RRD-96

Shoe-Type Self-Aligner Available

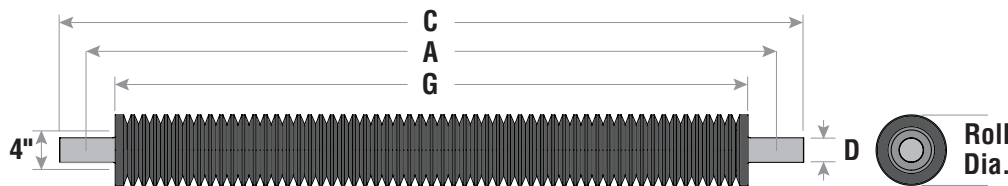
CEMA E Live Shaft Rolls



Belt Width	Standard Dimensions		
	A	C	G
36	45	50	40
42	51	56	46
48	57	62	52
54	63	68	58
60	69	74	64
66	75	80	70
72	81	86	76
78	87	92	82
84	93	98	88
90	99	104	94
96	105	110	100
102	111	116	106

Steel Live Shaft Roll

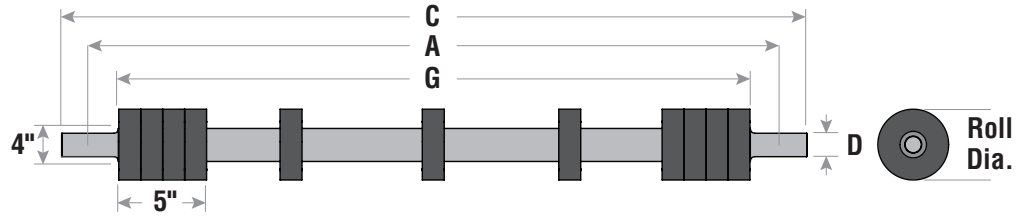
Belt Width	6" Roll Diameter		7" Roll Diameter	
	Part Number	Wt.	Part Number	Wt.
	D = 2.44"		D = 2.44"	
36	E6-LR39-36-07	112	E7-LR39-36-04	126
42	E6-LR39-42-07	126	E7-LR39-42-04	141
48	E6-LR39-48-07	140	E7-LR39-48-04	157
54	E6-LR39-54-07	154	E7-LR39-54-04	172
60	E6-LR39-60-07	168	E7-LR39-60-04	194
66	E6-LR39-66-07	181	E7-LR39-66-04	202
72	E6-LR39-72-07	194	E7-LR39-72-04	218
78	E6-LR39-78-07	208	E7-LR39-78-04	234
84	E6-LR39-84-07	222	E7-LR39-84-04	249
90	E6-LR39-90-07	235	E7-LR39-90-04	263
96	E6-LR39-96-07	249	E7-LR39-96-04	279
102	E6-LR39-102-07	263	E7-LR39-102-04	295



Impact Live Shaft Roll

Belt Width	6" Roll Diameter		7" Roll Diameter	
	Part Number	Wt.	Part Number	Wt.
	D = 2.44"		D = 2.44"	
36	E6-LI39-36	207	E7-LI39-36	210
42	E6-LI39-42	233	E7-LI39-42	235
48	E6-LI39-48	258	E7-LI39-48	262
54	E6-LI39-54	283	E7-LI39-54	286
60	E6-LI39-60	309	E7-LI39-60	323
66	E6-LI39-66	333	E7-LI39-66	337
72	E6-LI39-72	358	E7-LI39-72	363
78	E6-LI39-78	384	E7-LI39-78	389
84	E6-LI39-84	409	E7-LI39-84	414
90	E6-LI39-90	434	E7-LI39-90	439
96	E6-LI39-96	459	E7-LI39-96	465
102	E6-LI39-102	485	E7-LI39-102	492

Belt Width	Standard Dimensions		
	A	C	G
36	45	50	40
42	51	56	46
48	57	62	52
54	63	68	58
60	69	74	64
66	75	80	70
72	81	86	76
78	87	92	82
84	93	98	88
90	99	104	94
96	105	110	100
102	111	116	106



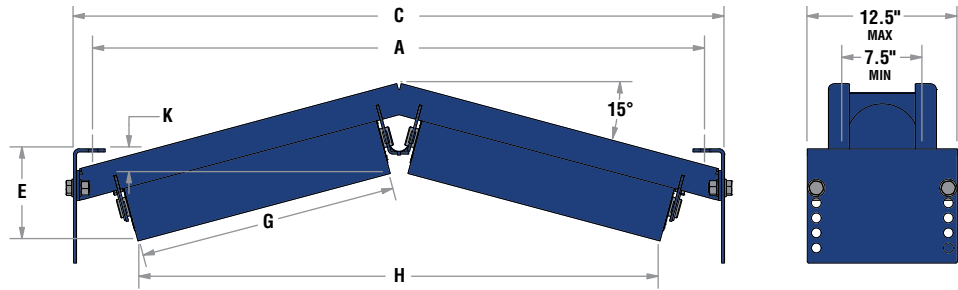
Rubber Disc Return Live Shaft Roll

Belt Width	6" Roll Diameter		7" Roll Diameter	
	Part Number	Wt.	Part Number	Wt.
	D = 2.44"		D = 2.44"	
36	E6-LRRD39-36	207	E7-LRRD39-36	210
42	E6-LRRD39-42	233	E7-LRRD39-42	235
48	E6-LRRD39-48	258	E7-LRRD39-48	262
54	E6-LRRD39-54	283	E7-LRRD39-54	286
60	E6-LRRD39-60	309	E7-LRRD39-60	323
66	E6-LRRD39-66	333	E7-LRRD39-66	337
72	E6-LRRD39-72	358	E7-LRRD39-72	363
78	E6-LRRD39-78	384	E7-LRRD39-78	389
84	E6-LRRD39-84	409	E7-LRRD39-84	414
90	E6-LRRD39-90	434	E7-LRRD39-90	439
96	E6-LRRD39-96	459	E7-LRRD39-96	465
102	E6-LRRD39-102	485	E7-LRRD39-102	492

CEMA E Inverted V>Returns



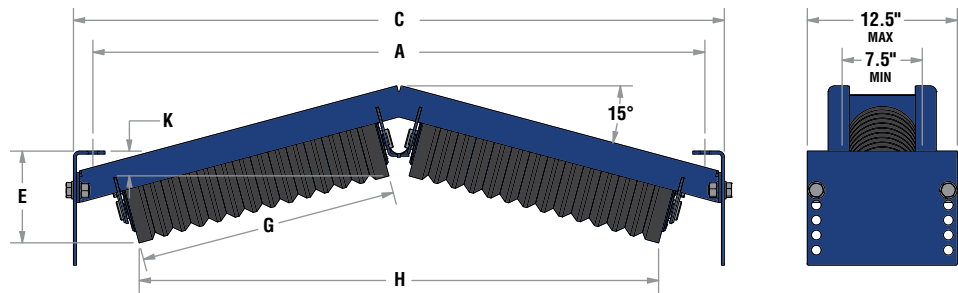
Belt Width	Standard Dimensions		
	A	C	G
36	45	48.25	19.75
42	51	54.25	21.75
48	57	60.25	25.75
54	63	66.25	29.75
60	69	72.25	31.75
66	75	78.25	35.75
72	81	84.25	37.25
84	93	96.25	43.75
96	105	108.25	49.75



Steel Inverted V>Returns

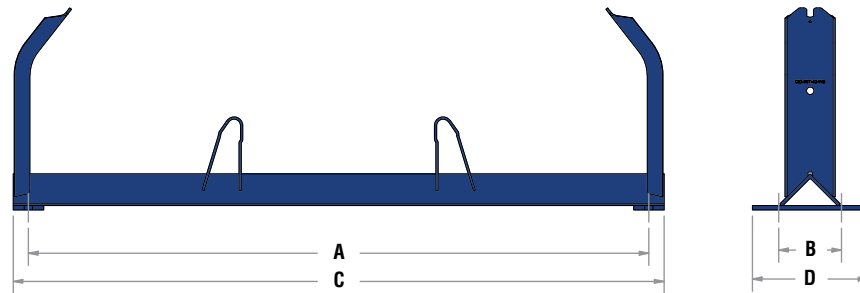
Belt Width	6" Roll Diameter						7" Roll Diameter					
	Part Number	E	H	K	Wt.	Replacement Roll	Part Number	E	H	K	Wt.	Replacement Roll
36	E6-15IV-36-07	7.94	39.63	2.81	137	E6-T-54-07	E7-15IV-36-04	8.44	39.38	3.31	161	E7-T-54-07
42	E6-15IV-42-07	7.69	43.50	2.00	147	E6-T-60-07	E7-15IV-42-04	8.13	43.25	2.50	173	E7-T-60-07
48	E6-15IV-48-07	7.88	51.25	1.25	164	E6-T-72-07	E7-15IV-48-04	8.38	51.00	1.69	194	E7-T-72-07
54	E6-15IV-54-07	8.13	58.94	0.44	180	E6-T-84-07	E7-15IV-54-04	8.63	58.69	0.94	215	E7-T-84-07
60	E6-15IV-60-07	7.81	62.81	0.38	190	E6-IV-60-07	E7-15IV-60-04	8.31	62.56	0.13	227	E7-IV-60-07
66	E6-15IV-66-07	8.06	70.50	1.19	207	E6-V-66-07	E7-15IV-66-04	8.56	70.25	0.69	248	E7-V-66-07
72	E6-15IV-72-07	7.75	74.44	2.00	216	E6-IV-72-07	E7-15IV-72-04	8.25	74.13	1.50	260	E7-IV-72-07
84	E6-15IV-84-07	7.75	86.00	3.56	242	E6-IV-84-07	E7-15IV-84-04	8.25	85.75	3.13	294	E7-IV-84-07
96	E6-15IV-96-07	7.75	98.00	5.13	268	E6-IV-96-07	E7-15IV-96-04	8.25	97.81	4.63	327	E7-IV-96-07

Belt Width	Standard Dimensions		
	A	C	G
36	45	48.25	19.75
42	51	54.25	21.75
48	57	60.25	25.75
54	63	66.25	29.75
60	69	72.25	31.75
66	75	78.25	35.75
72	81	84.25	37.25
84	93	96.25	43.75
96	105	108.25	49.75



Rubber Disc Inverted V>Returns

Belt Width	6" Roll Diameter						7" Roll Diameter					
	Part Number	E	H	K	Wt.	Replacement Roll	Part Number	E	H	K	Wt.	Replacement Roll
36	E6-15IVRD-36	7.94	39.63	2.81	150	E6-TI-54	E7-15IVRD-36	8.44	39.38	3.31	174	E7-TI-54
42	E6-15IVRD-42	7.69	43.50	2.00	160	E6-TI-60	E7-15IVRD-42	8.13	43.25	2.50	186	E7-TI-60
48	E6-15IVRD-48	7.88	51.25	1.25	177	E6-TI-72	E7-15IVRD-48	8.38	51.00	1.69	207	E7-TI-72
54	E6-15IVRD-54	8.13	58.94	0.44	197	E6-TI-84	E7-15IVRD-54	8.63	58.69	0.94	232	E7-TI-84
60	E6-15IVRD-60	7.81	62.81	0.38	207	E6-IVRD-60	E7-15IVRD-60	8.31	62.56	0.13	244	E7-IVRD-60
66	E6-15IVRD-66	8.06	70.50	1.19	224	E6-IVRD-66	E7-15IVRD-66	8.56	70.25	0.69	265	E7-IVRD-66
72	E6-15IVRD-72	7.75	74.44	2.00	241	E6-IVRD-72	E7-15IVRD-72	8.25	74.13	1.50	285	E7-IVRD-72
84	E6-15IVRD-84	7.75	86.00	3.56	267	E6-IVRD-84	E7-15IVRD-84	8.25	85.75	3.13	319	E7-IVRD-84
96	E6-15IVRD-96	7.75	98.00	5.13	293	E6-IVRD-96	E7-15IVRD-96	8.25	97.81	4.63	352	E7-IVRD-96



20° Equal Steel Idler Frame

Belt Width	Standard Dimensions					
	Part Number	A	B	C	D	Wt.
18	C-20T-18	27	5.5	29.5	8	19
20	C-20T-20	29	5.5	31.5	8	20
24	C/D-20T-24	33	5.5	35.5	8	21
30	C/D-20T-30	39	5.5	41.5	9.5	25
36	C/D-20T-36	45	5.5	47.5	9.5	27
42	C/D-20T-42	51	5.5	53.5	9.5	38
48	C/D-20T-48	57	5.5	59.5	9.5	41
54	C/D-20T-54	63	7	65.5	11	46
60	C/D-20T-60	69	7	71.5	11	49
72	D-20T-72	81	7	83.5	11	61

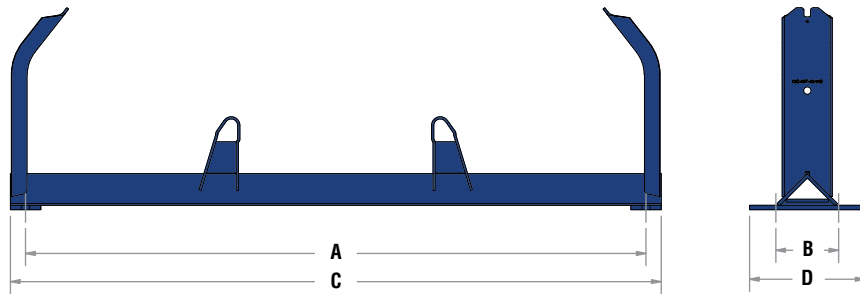
35° Equal Steel Idler Frame

Belt Width	Standard Dimensions					
	Part Number	A	B	C	D	Wt.
18	C-35T-18	27	5.5	29.5	8	20
20	C-35T-20	29	5.5	31.5	8	21
24	C/D-35T-24	33	5.5	35.5	8	23
30	C/D-35T-30	39	5.5	41.5	9.5	27
36	C/D-35T-36	45	5.5	47.5	9.5	30
42	C/D-35T-42	51	5.5	53.5	9.5	41
48	C/D-35T-48	57	5.5	59.5	9.5	45
54	C/D-35T-54	63	7	65.5	11	49
60	C/D-35T-60	69	7	71.5	11	53
72	D-35T-72	81	7	83.5	11	66

45° Equal Steel Idler Frame

Belt Width	Standard Dimensions					
	Part Number	A	B	C	D	Wt.
18	C-45T-18	27	5.5	29.5	8	22
20	C-45T-20	29	5.5	31.5	8	23
24	C/D-45T-24	33	5.5	35.5	8	25
30	C/D-45T-30	39	5.5	41.5	9.5	29
36	C/D-45T-36	45	5.5	47.5	9.5	32
42	C/D-45T-42	51	5.5	53.5	9.5	44
48	C/D-45T-48	57	5.5	59.5	9.5	48
54	C/D-45T-54	63	7	65.5	11	52
60	C/D-45T-60	69	7	71.5	11	56
72	D-45T-72	81	7	83.5	11	70

CEMA C/D Reinforced Equal Impact Idler Frames



20° Equal Impact Idler Frame

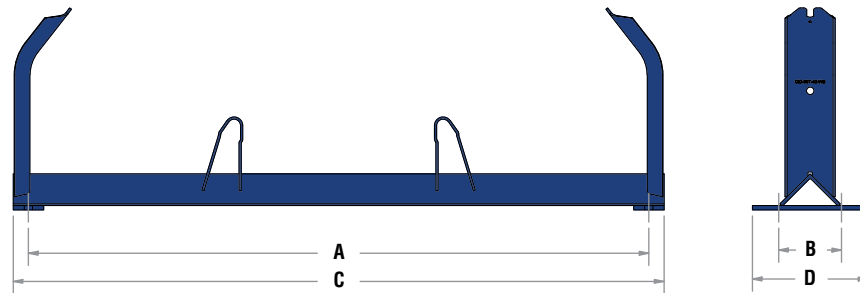
Belt Width	Standard Dimensions					
	Part Number	A	B	C	D	Wt.
18	C-20TI-18	27	5.5	29.5	8	23
20	C-20TI-20	29	5.5	31.5	8	25
24	C/D-20TI-24	33	5.5	35.5	8	27
30	C/D-20TI-30	39	5.5	41.5	9.5	32
36	C/D-20TI-36	45	5.5	47.5	9.5	35
42	C/D-20TI-42	51	5.5	53.5	9.5	48
48	C/D-20TI-48	57	5.5	59.5	9.5	53
54	C/D-20TI-54	63	7	65.5	11	58
60	C/D-20TI-60	69	7	71.5	11	63
72	D-20TI-72	81	7	83.5	11	80

35° Equal Impact Idler Frame

Belt Width	Standard Dimensions					
	Part Number	A	B	C	D	Wt.
18	C-35TI-18	27	5.5	29.5	8	25
20	C-35TI-20	29	5.5	31.5	8	27
24	C/D-35TI-24	33	5.5	35.5	8	29
30	C/D-35TI-30	39	5.5	41.5	9.5	34
36	C/D-35TI-36	45	5.5	47.5	9.5	38
42	C/D-35TI-42	51	5.5	53.5	9.5	52
48	C/D-35TI-48	57	5.5	59.5	9.5	56
54	C/D-35TI-54	63	7	65.5	11	62
60	C/D-35TI-60	69	7	71.5	11	67
72	D-35TI-72	81	7	83.5	11	85

45° Equal Impact Idler Frame

Belt Width	Standard Dimensions					
	Part Number	A	B	C	D	Wt.
18	C-45TI-18	27	5.5	29.5	8	27
20	C-45TI-20	29	5.5	31.5	8	29
24	C/D-45TI-24	33	5.5	35.5	8	31
30	C/D-45TI-30	39	5.5	41.5	9.5	36
36	C/D-45TI-36	45	5.5	47.5	9.5	40
42	C/D-45TI-42	51	5.5	53.5	9.5	54
48	C/D-45TI-48	57	5.5	59.5	9.5	59
54	C/D-45TI-54	63	7	65.5	11	65
60	C/D-45TI-60	69	7	71.5	11	70
72	D-45TI-72	81	7	83.5	11	89



20° Equal Steel Idler Frame

Belt Width	Standard Dimensions					Wt.
	Part Number	A	B	C	D	
36	E-20T-36	45	7.5	47.5	12	60
42	E-20T-42	51	7.5	53.5	12	65
48	E-20T-48	57	7.5	59.5	12	69
54	E-20T-54	63	7.5	65.5	12	75
60	E-20T-60	69	7.5	71.5	12	81
66	E-20T-66	75	7.5	77.5	12	95
72	E-20T-72	81	7.5	83.5	12	109
84	E-20T-84	93	9	95.5	14.5	126
96	E-20T-96	105	9	107.5	14.5	140

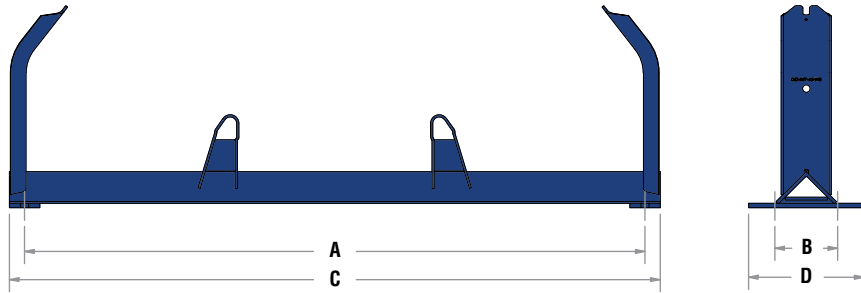
35° Equal Steel Idler Frame

Belt Width	Standard Dimensions					Wt.
	Part Number	A	B	C	D	
36	E-35T-36	45	7.5	47.5	12	63
42	E-35T-42	51	7.5	53.5	12	69
48	E-35T-48	57	7.5	59.5	12	74
54	E-35T-54	63	7.5	65.5	12	80
60	E-35T-60	69	7.5	71.5	12	86
66	E-35T-66	75	7.5	77.5	12	101
72	E-35T-72	81	7.5	83.5	12	115
84	E-35T-84	93	9	95.5	14.5	133
96	E-35T-96	105	9	107.5	14.5	147

45° Equal Steel Idler Frame

Belt Width	Standard Dimensions					Wt.
	Part Number	A	B	C	D	
36	E-45T-36	45	7.5	47.5	12	66
42	E-45T-42	51	7.5	53.5	12	73
48	E-45T-48	57	7.5	59.5	12	79
54	E-45T-54	63	7.5	65.5	12	85
60	E-45T-60	69	7.5	71.5	12	91
66	E-45T-66	75	7.5	77.5	12	106
72	E-45T-72	81	7.5	83.5	12	121
84	E-45T-84	93	9	95.5	14.5	140
96	E-45T-96	105	9	107.5	14.5	154

CEMA E Reinforced Equal Impact Idler Frames



20° Equal Impact Idler Frame

Belt Width	Standard Dimensions					
	Part Number	A	B	C	D	Wt.
36	E-20TI-36	45	7.5	47.5	12	68
42	E-20TI-42	51	7.5	53.5	12	77
48	E-20TI-48	57	7.5	59.5	12	83
54	E-20TI-54	63	7.5	65.5	12	89
60	E-20TI-60	69	7.5	71.5	12	96
66	E-20TI-66	75	7.5	77.5	12	116
72	E-20TI-72	81	7.5	83.5	12	135
84	E-20TI-84	93	9	95.5	14.5	154
96	E-20TI-96	105	9	107.5	14.5	173

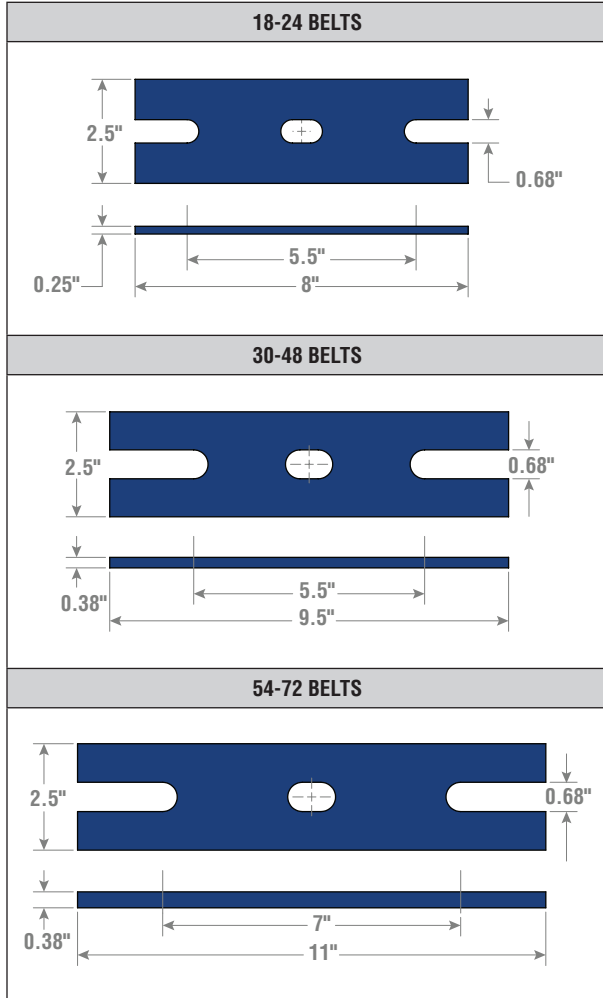
35° Equal Impact Idler Frame

Belt Width	Standard Dimensions					
	Part Number	A	B	C	D	Wt.
36	E-35TI-36	45	7.5	47.5	12	75
42	E-35TI-42	51	7.5	53.5	12	83
48	E-35TI-48	57	7.5	59.5	12	90
54	E-35TI-54	63	7.5	65.5	12	97
60	E-35TI-60	69	7.5	71.5	12	104
66	E-35TI-66	75	7.5	77.5	12	124
72	E-35TI-72	81	7.5	83.5	12	143
84	E-35TI-84	93	9	95.5	14.5	164
96	E-35TI-96	105	9	107.5	14.5	183

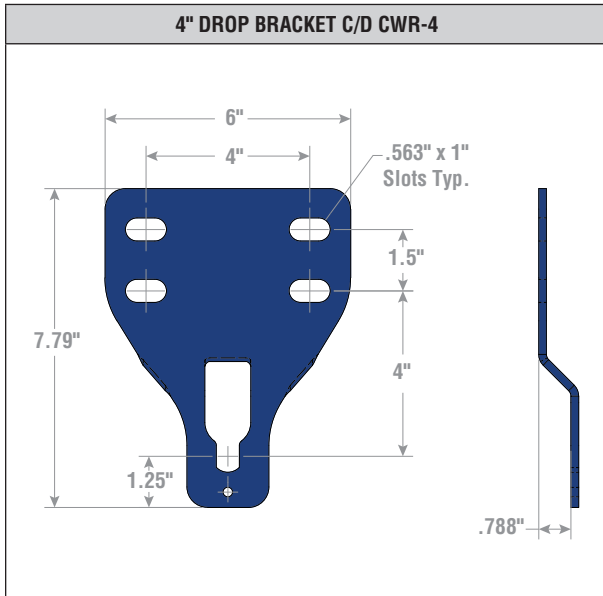
45° Equal Impact Idler Frame

Belt Width	Standard Dimensions					
	Part Number	A	B	C	D	Wt.
36	E-45TI-36	45	7.5	47.5	12	82
42	E-45TI-42	51	7.5	53.5	12	89
48	E-45TI-48	57	7.5	59.5	12	97
54	E-45TI-54	63	7.5	65.5	12	105
60	E-45TI-60	69	7.5	71.5	12	112
66	E-45TI-66	75	7.5	77.5	12	132
72	E-45TI-72	81	7.5	83.5	12	151
84	E-45TI-84	93	9	95.5	14.5	174
96	E-45TI-96	105	9	107.5	14.5	193

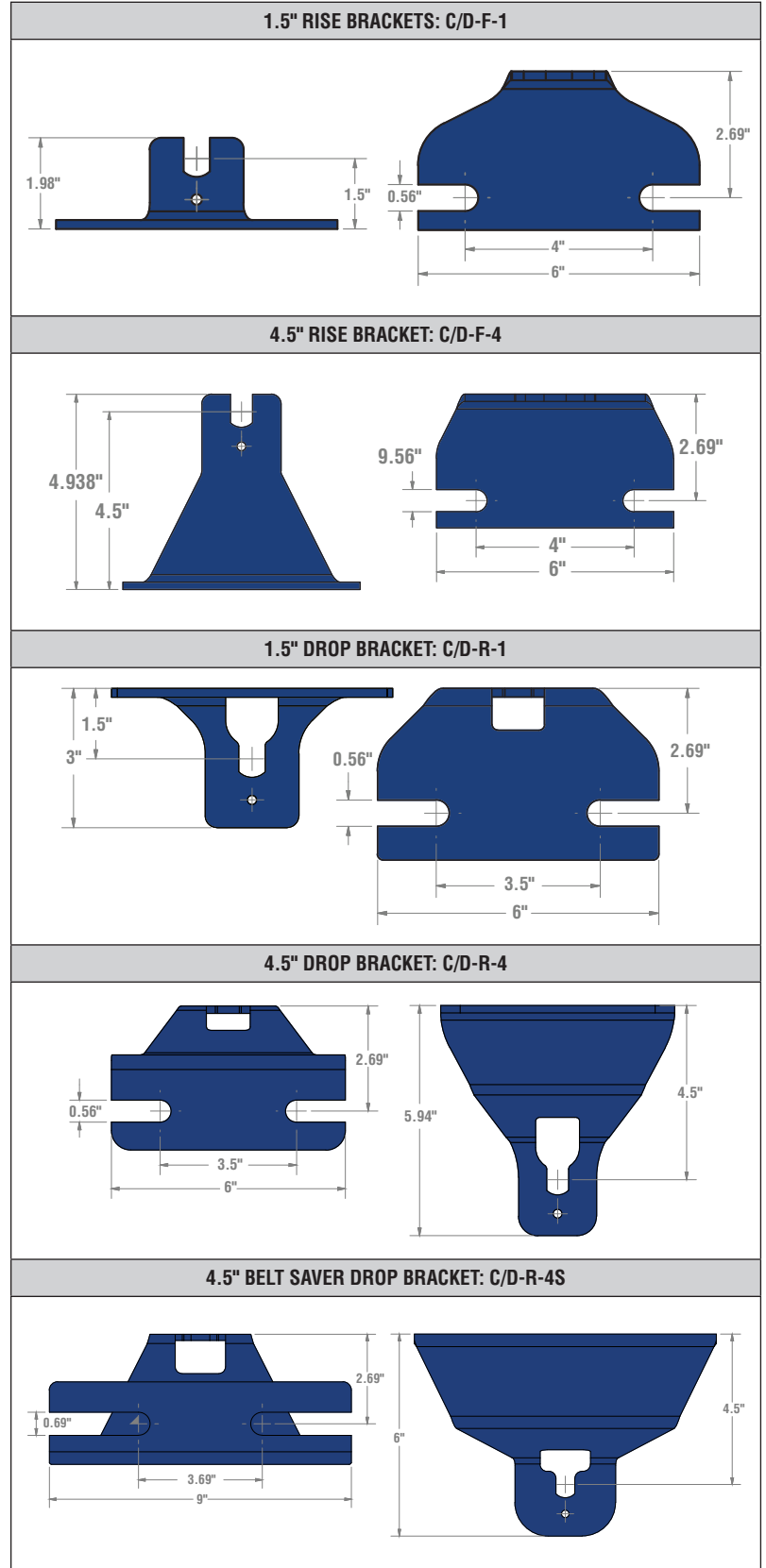
Footpads for CEMA C & D Idlers



Channel Inset Bracket



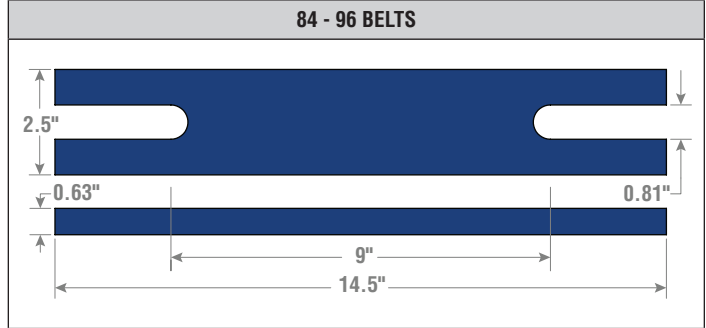
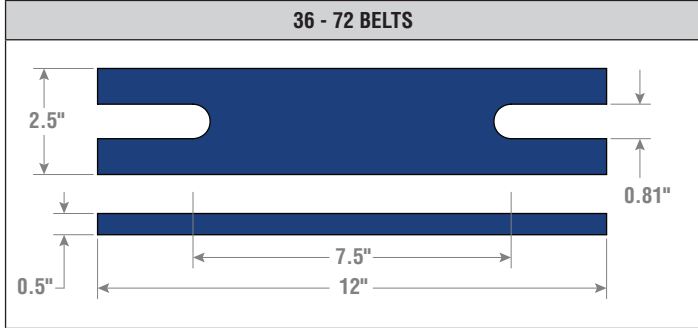
Rise & Drop Brackets for CEMA C & D



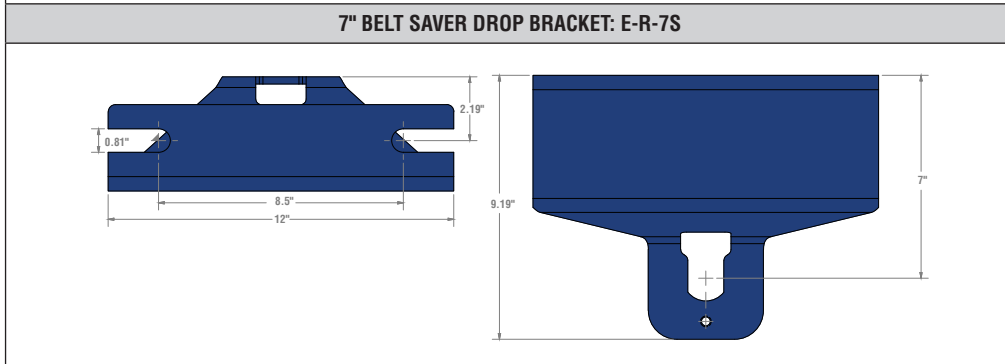
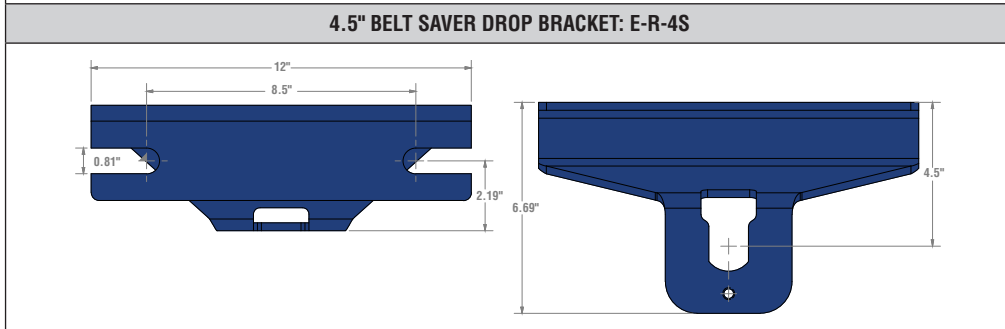
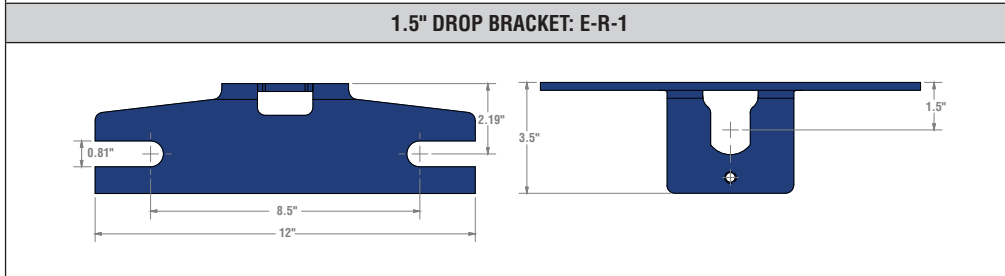
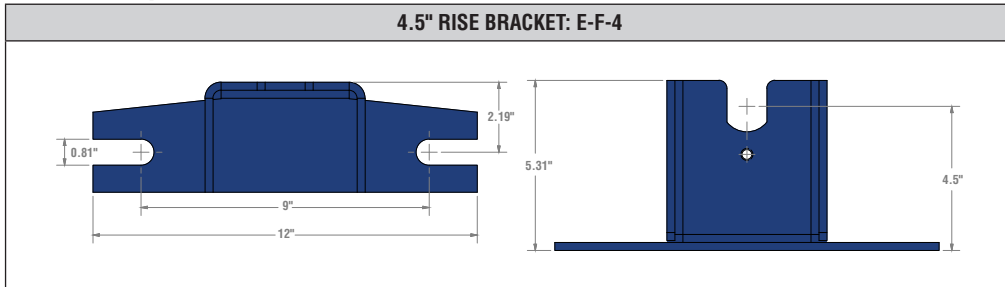
CEMA E Footpads & Brackets



Footpads for CEMA E



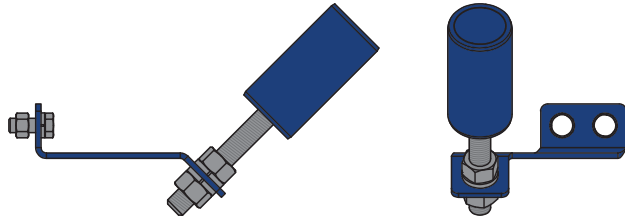
Rise & Drop Brackets for CEMA E



Self-Aligner Guide Rolls

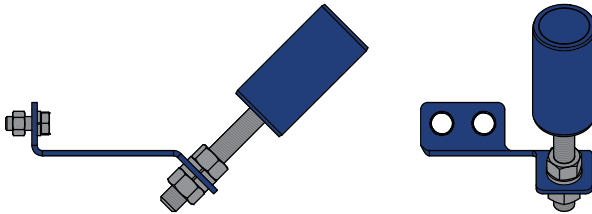
Self-Aligner Left Arm Guide Roll Kit

SA-LARM-KIT



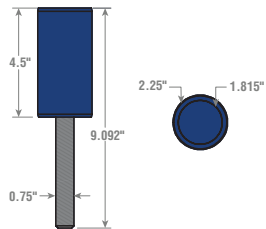
Self-Aligner right Arm Guide Roll Kit

SA-RARM-KIT



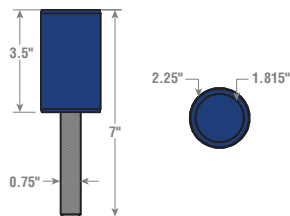
TSA Steel Actuator Roll

C/D-TSA-SROLL



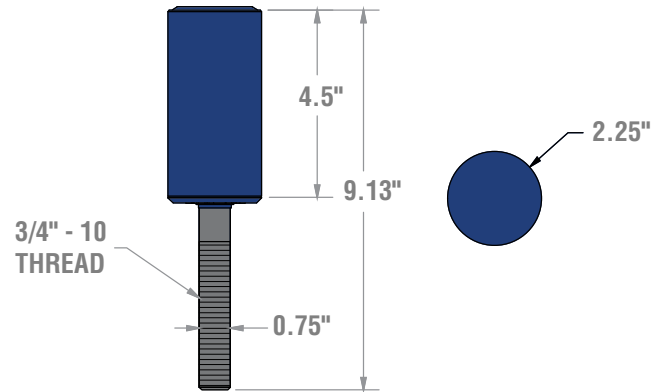
Short Steel Actuator Roll

C/D-RSA-SROLL



Self-Aligner Treaded Guide Roll

SA-TROLL



Impact Beds



Features:

- **Absorbs Impacts** – Designed with heavy-duty C-channel steel framework and standard 3" x 4" rubber impact bars that absorb the shock of heavy loads.
- **3/4" UHMW cap** on the bar provides a wear surface. The UHMW has a low coefficient of friction, reducing drag.
- **Construction** – 4' beds have 4 legs & 5' beds have 5 legs.
- **Standard Models (4' & 5' lengths)** – Adjustable to 20° or 35° and can be laid flat if needed.
- **MTO 45° *Martin* Impact Beds** are available.

Benefits:

Martin Impact Beds are engineered to offer an efficient and safe means of dispersing impact force, reducing material rebound and assisting in eliminating spillage in the loading zone. *Martin* Impact beds are designed to meet today's demanding material handling applications by offering the following benefits:

- Protects the conveyor belt
- Easy and safe installation
- Improved transfer point sealing over standard impact idlers
- Adjustable Wing Angle
- Medium Duty – up to 750 lb-ft impact force
- Impact Beds are stocked in 24" – 48" belt widths
- Compliments roll height or CEMA C and D Idlers

Uses:

- Material (lump) size, density and drop height can cause considerable impact force that damages the conveyor belt and structure. The proper *Martin* Impact Bed should be selected to absorb impact energy and reduce the chances of belt, component or conveyor structure damage.
- *Martin* Impact Beds allow skirting to be installed against a solid bar creating a better sealed transfer point, potentially reducing material spillage.

Selection Requirements:

- Belt Width
- Troughing Angle
- Roll Diameter and CEMA Rating (typically 5" or 6" and CEMA C, D, and E)
- Bed Length
- Drop Height, Lump Size, and Material Density

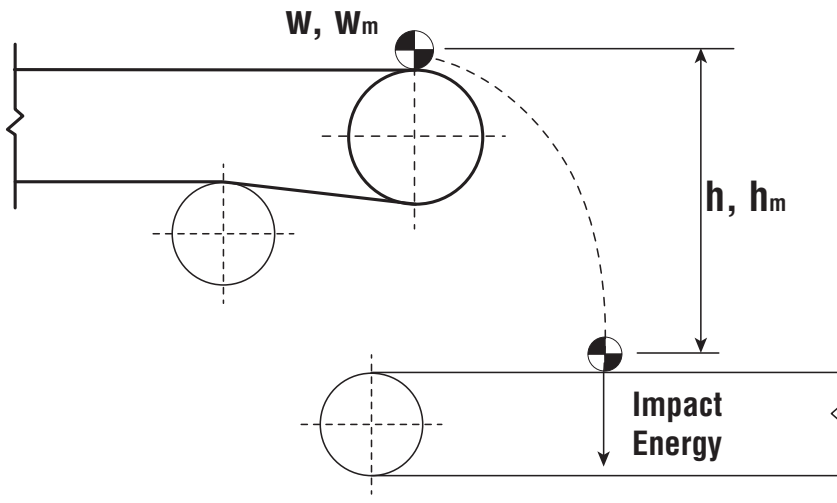
MTO *Martin* 'H' beds can be designed for custom heavy applications



Impact Beds

Part Number	Belt Width	Length
S4-35IB-18-4	18"	4'
S4-35IB-18-5	18"	5'
S4-35IB-24-4	24"	4'
S4-35IB-24-5	24"	5'
S4-35IB-30-4	30"	4'
S4-35IB-30-5	30"	5'
S4-35IB-36-4	36"	4'
S4-35IB-36-5	36"	5'
S4-35IB-42-4	42"	4'
S4-35IB-42-5	42"	5'
S4-35IB-48-4	48"	4'
S4-35IB-48-5	48"	5'
S4-35IB-54-4	54"	4'
S4-35IB-54-5	54"	5'
S4-35IB-60-4	60"	4'
S4-35IB-60-5	60"	5'
S4-35IB-72-4	72"	4'
S4-35IB-72-5	72"	5'
S5-35IB-18-4	18"	4'
S5-35IB-18-5	18"	5'
S5-35IB-24-4	24"	4'
S5-35IB-24-5	24"	5'
S5-35IB-30-4	30"	4'
S5-35IB-30-5	30"	5'
S5-35IB-36-4	36"	4'
S5-35IB-36-5	36"	5'
S5-35IB-42-4	42"	4'
S5-35IB-42-5	42"	5'
S5-35IB-48-4	48"	4'
S5-35IB-48-5	48"	5'
S5-35IB-54-4	54"	4'
S5-35IB-54-5	54"	5'
S5-35IB-60-4	60"	4'
S5-35IB-60-5	60"	5'
S5-35IB-72-4	72"	4'
S5-35IB-72-5	72"	5'
S6-35IB-18-4	18"	4'
S6-35IB-18-5	18"	5'
S6-35IB-24-4	24"	4'
S6-35IB-24-5	24"	5'
S6-35IB-30-4	30"	4'
S6-35IB-30-5	30"	5'
S6-35IB-36-4	36"	4'
S6-35IB-36-5	36"	5'
S6-35IB-42-4	42"	4'
S6-35IB-42-5	42"	5'
S6-35IB-48-4	48"	4'
S6-35IB-48-5	48"	5'
S6-35IB-54-4	54"	4'
S6-35IB-54-5	54"	5'
S6-35IB-60-4	60"	4'
S6-35IB-60-5	60"	5'
S6-35IB-72-4	72"	4'
S6-35IB-72-5	72"	5'

Impact Energy Calculation Chart



Lump Weight (w) = Lump Size (cu. ft.)
× Density
= _____ lb

Drop Height (h) = _____ ft

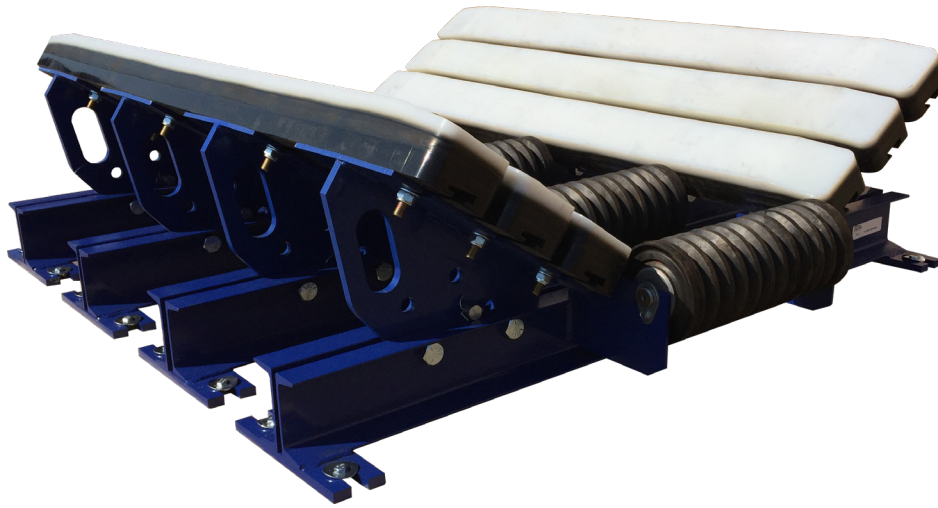
Impact Energy = Lump Weight
× Drop Height
= _____ lb-ft

Martin 'S' bed rated to 750 lb-ft

Replacement Impact Bars

Part Number	Length
IBB-48	4'
IBB-60	5'

Impact Slider Beds



Features:

- **Absorbs Impacts** – Designed with heavy-duty C-channel steel framework and standard 3" x 4" rubber impact bars on the wings that absorb the shock of heavy loads.
- **3/4" UHMW cap** on the bar provides a wear surface. The UHMW has a low coefficient of friction, reducing drag.
- **Uses stock Impact Bed frames** with center roll brackets welded in place
- **Construction** – 4' beds have 4 legs & 5' beds have 5 legs.
- **Standard Models (4' & 5' lengths)** – *Martin* Impact Slider Beds are adjustable to 20° or 35° and can be laid flat if needed.
- **MTO 45° *Martin* Impact Slider Bed** are available.

Benefits:

Martin Impact Slider Beds offer an efficient and safe means of dispersing impact force, reducing material rebound and to assist in eliminating spillage in the loading zone.

Martin Impact slider bed reduces the additional belt to bar friction generated by regular impact beds. This can be important if motor HP is a concern.

Martin Impact Slider Beds are designed to meet today's demanding material handling applications by offering the following benefits:

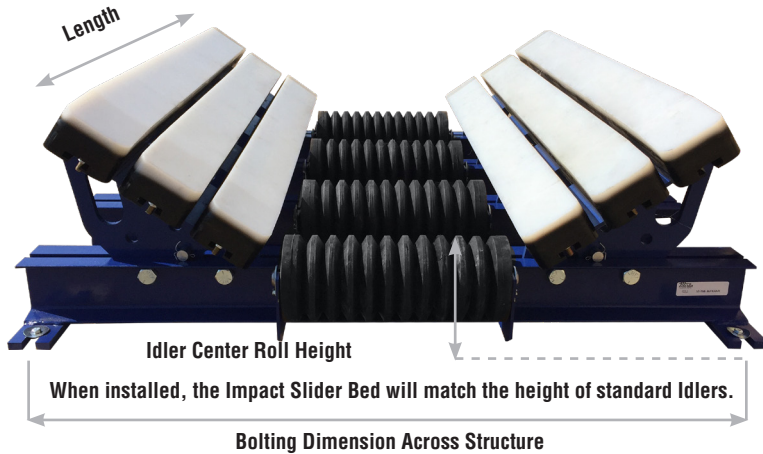
- Protects the conveyor belt
- Easy and safe installation
- Improved transfer point sealing over standard impact Idlers
- Adjustable Wing Angle
- Medium Duty – up to 750 lb-ft
 - » Compliments roll height of CEMA C and D Idlers
- Heavy-Duty – engineered upon request
 - » Compliments roll height of CEMA E Idlers

Uses:

- A combination of material (lump) size, density and drop height can cause considerable impact force that damages the conveyor belt and structure. The proper *Martin* Impact Slider should be chosen to absorb the impact energy and minimize damage.
- *Martin* Impact Slider Beds allow skirting to seal down against a solid impact bar, potentially reducing material spillage.

Selection Requirements:

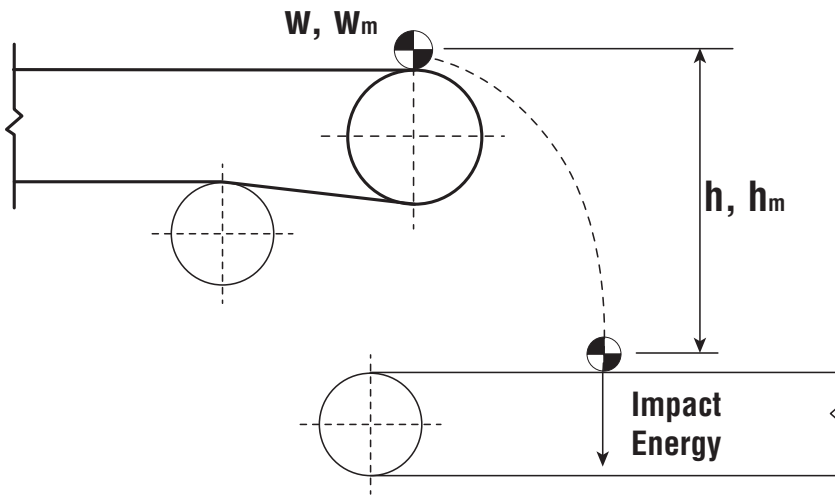
- Belt Width
- Troughing Angle
- Roll Diameter and CEMA Class (typically 5" or 6" and CEMA C, D, and E)
- If system HP is a concern, an Impact Slider Bed will have reduced drag versus a conventional Impact Bed
- Bed Length
- Drop Height, Lump Size, and Material Density



Impact Slider Beds

Part Number	Description
S4-35ISB-18-4	18" BW 4' IMPACT SLIDER BED
S4-35ISB-18-5	18" BW 5' IMPACT SLIDER BED
S4-35ISB-24-4	24" BW 4' IMPACT SLIDER BED
S4-35ISB-24-5	24" BW 5' IMPACT SLIDER BED
S4-35ISB-30-4	30" BW 4' IMPACT SLIDER BED
S4-35ISB-30-5	30" BW 5' IMPACT SLIDER BED
S4-35ISB-36-4	36" BW 4' IMPACT SLIDER BED
S4-35ISB-36-5	36" BW 5' IMPACT SLIDER BED
S4-35ISB-42-4	42" BW 4' IMPACT SLIDER BED
S4-35ISB-42-5	42" BW 5' IMPACT SLIDER BED
S4-35ISB-48-4	48" BW 4' IMPACT SLIDER BED
S4-35ISB-48-5	48" BW 5' IMPACT SLIDER BED
S4-35ISB-54-4	54" BW 4' IMPACT SLIDER BED
S4-35ISB-54-5	54" BW 5' IMPACT SLIDER BED
S4-35ISB-60-4	60" BW 4' IMPACT SLIDER BED
S4-35ISB-60-5	60" BW 5' IMPACT SLIDER BED
S4-35ISB-72-4	72" BW 4' IMPACT SLIDER BED
S4-35ISB-72-5	72" BW 5' IMPACT SLIDER BED
S5-35ISB-18-4	18" BW 4' IMPACT SLIDER BED
S5-35ISB-18-5	18" BW 5' IMPACT SLIDER BED
S5-35ISB-24-4	24" BW 4' IMPACT SLIDER BED
S5-35ISB-24-5	24" BW 5' IMPACT SLIDER BED
S5-35ISB-30-4	30" BW 4' IMPACT SLIDER BED
S5-35ISB-30-5	30" BW 5' IMPACT SLIDER BED
S5-35ISB-36-4	36" BW 4' IMPACT SLIDER BED
S5-35ISB-36-5	36" BW 5' IMPACT SLIDER BED
S5-35ISB-42-4	42" BW 4' IMPACT SLIDER BED
S5-35ISB-42-5	42" BW 5' IMPACT SLIDER BED
S5-35ISB-48-4	48" BW 4' IMPACT SLIDER BED
S5-35ISB-48-5	48" BW 5' IMPACT SLIDER BED
S5-35ISB-54-4	54" BW 4' IMPACT SLIDER BED
S5-35ISB-54-5	54" BW 5' IMPACT SLIDER BED
S5-35ISB-60-4	60" BW 4' IMPACT SLIDER BED
S5-35ISB-60-5	60" BW 5' IMPACT SLIDER BED
S5-35ISB-72-4	72" BW 4' IMPACT SLIDER BED
S5-35ISB-72-5	72" BW 5' IMPACT SLIDER BED
S6-35ISB-18-4	18" BW 4' IMPACT SLIDER BED
S6-35ISB-18-5	18" BW 5' IMPACT SLIDER BED
S6-35ISB-24-4	24" BW 4' IMPACT SLIDER BED
S6-35ISB-24-5	24" BW 5' IMPACT SLIDER BED
S6-35ISB-30-4	30" BW 4' IMPACT SLIDER BED
S6-35ISB-30-5	30" BW 5' IMPACT SLIDER BED
S6-35ISB-36-4	36" BW 4' IMPACT SLIDER BED
S6-35ISB-36-5	36" BW 5' IMPACT SLIDER BED
S6-35ISB-42-4	42" BW 4' IMPACT SLIDER BED
S6-35ISB-42-5	42" BW 5' IMPACT SLIDER BED
S6-35ISB-48-4	48" BW 4' IMPACT SLIDER BED
S6-35ISB-48-5	48" BW 5' IMPACT SLIDER BED
S6-35ISB-54-4	54" BW 4' IMPACT SLIDER BED
S6-35ISB-54-5	54" BW 5' IMPACT SLIDER BED
S6-35ISB-60-4	60" BW 4' IMPACT SLIDER BED
S6-35ISB-60-5	60" BW 5' IMPACT SLIDER BED
S6-35ISB-72-4	72" BW 4' IMPACT SLIDER BED
S6-35ISB-72-5	72" BW 5' IMPACT SLIDER BED

Impact Energy Calculation Chart



Lump Weight (w) = Lump Size (cu.ft.)
× Density
= _____ lb

Drop Height (h) = _____ ft

Impact Energy = Lump Weight
× Drop Height
= _____ lb-ft

Martin 'S' bed rated to 750 lb-ft

Replacement Impact Roll

Part Number	Description
D5-TI-BW	CEMA D 5" Impact Roll Replacement
D6-TI-BW	CEMA D 6" Impact Roll Replacement

Replacement Impact Bars

Part Number	Description
IBB-48	Replacement bar for 4ft impact beds
IBB-60	Replacement bar for 5ft impact beds

Retrofit Rolls



Martin manufactures Retrofit Rolls that fit other manufacturer's frames. You get the benefits & performance of the *Martin* Roll in your existing frame or drop brackets

C5 - T - 36 FN - 09

CEMA Class & Diameter

C, D, or E CEMA Class
4, 5, 6, or 7 Diameter (Inches)

Wall Thickness Gauge

09, 07, 04

Manufacturer Code

Roll Type

- T** Steel Equal Idler
- TI** Impact Equal Idler
- F** Steel Flat Carry
- FRD** Impact Flat Carry
- R** Steel Return
- RRD** Rubber Disc Return
- V** Steel V-Return
- VRD** Rubber Disc V-Return

Belt Width in Inches

Slot End:

- CCS** Continental Canada Slot
- CS** Continental/Joy Slot
- DS** Douglas Slot
- FS** FMC/Syntron Slot
- GS** Goodman Slot
- LS** Luff Slot End
- MS** Melco Slot
- PS** Prok Slot
- RS** Rulmeca Slot
- SAS** Stephens Adamson/Metso Slot
- SS** Superior Slot
- VS** Van Gorp Slot

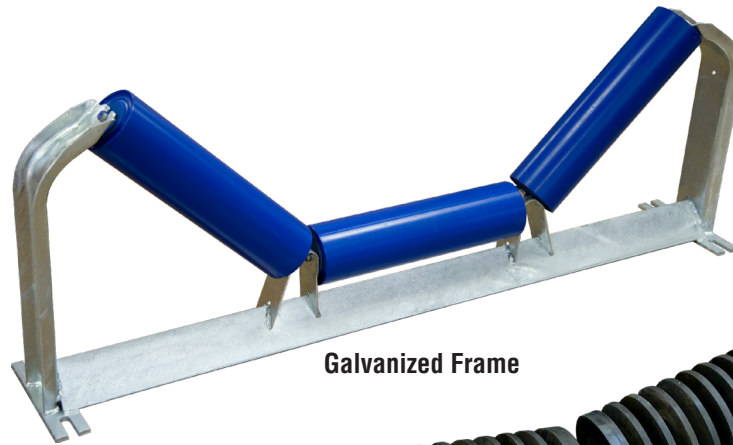
Hex Nut End:

- CN** Continental/Joy Hex Nut
- FN** FMC/Syntron Hex Nut
- GN** Goodman Hex Nut
- HN** Hewitt Hex Nut
- RN** Rexnord Hex Nut
- SAN** Stephens Adamson/Metso Hex Nut
- SN** Superior Hex Nut

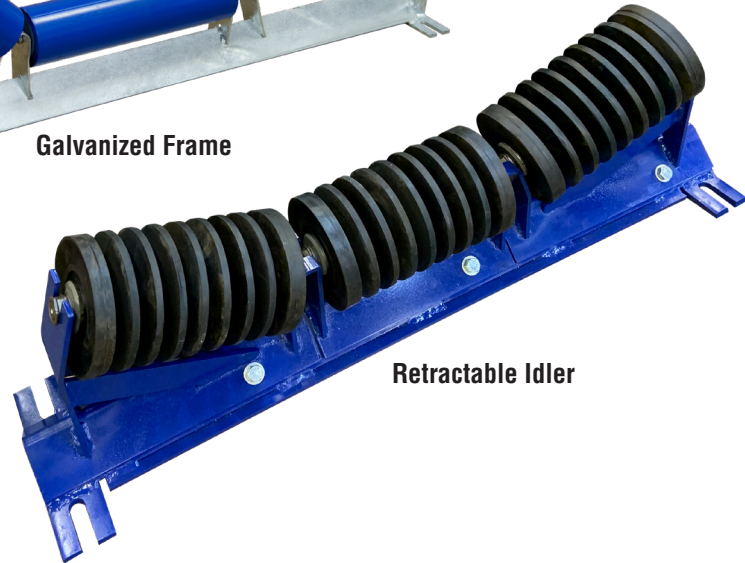


Special Construction

- Adjustable/Transitional Idlers
- Box Style Idlers
- Catenary
- Galvanized Frames
- Grain Idlers
- Removable Wing Bracket
- Retractable Idlers
- Scale Quality Idlers
- Split Center Roll Idlers
- Urethane-Covered Rolls
- Wide Base Idlers
- Wire Rope Idlers
- And more



Galvanized Frame



Retractable Idler

Scale Quality Idlers

Martin offers Scale Quality Idlers as part of our product line.

Add "Q" after the roll type in the part number for Scale Quality Idler Part number. For Example C5-35TQ-36-09.

Martin Scale Quality Idlers are available for CEMA C, D, and E for all belt widths.

CEMA Standard Scale Quality Idlers

- *Martin* SQ rolls have a TIR (Total Indicator Runout) within .015"
- Roll Axis is +/- .031" from perpendicular through center of base
- Wing Brackets are perpendicular within 1°
- Center roll height is +0, -.125"
- Troughing angles are within 1°



Retrofit Roll Data Sheet



Date: _____ By: _____

Company Name: _____

Contact: _____

Idler ID: _____ Project/Quote: _____

1. Choose your Roll and fill out all the required information for it:

Quantity: _____

Roll Length (RL): _____

Roll Diameter (RD): _____

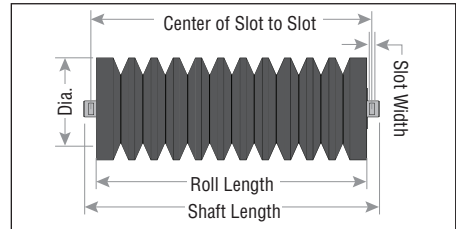
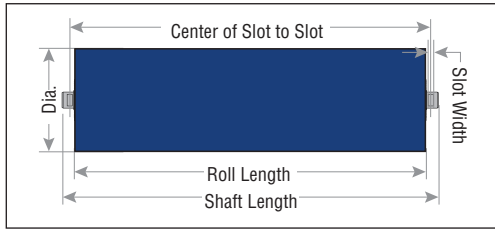
Shaft Length (SL): _____

Shaft Diameter (SD): _____

Center of Slot to Slot (C/C): _____

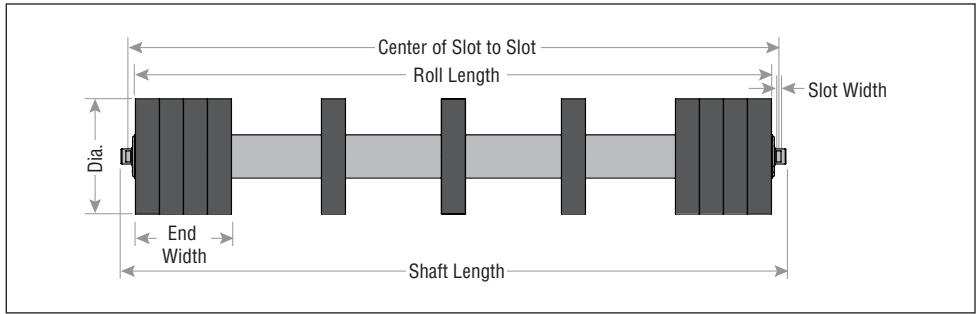
CEMA Series: _____

Manufacturer: _____



Steel Roll

Impact Roll



Rubber Roll

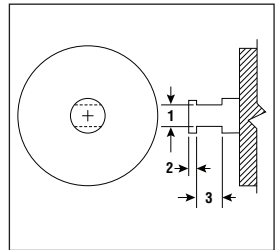
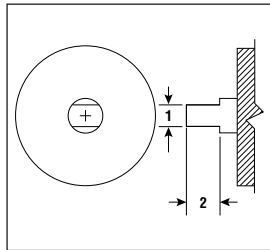
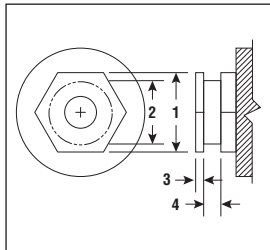
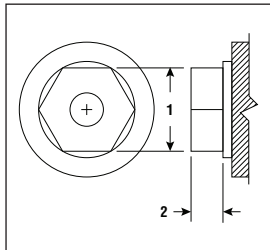
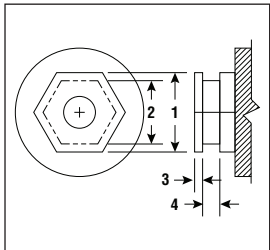
2. Choose your style and fill out all the required information for it:

KEY:

Across Flats (AF)

Shoulder (SH)

Slot Width (SW)



Style A: Hex Hex

Style B: Hex No Shoulder

Style C: Hex Round

Style D: Milled Flat

Style E: Slot

1. Outer Hex AF _____

1. Hex AF _____

1. Outer Hex AF _____

1. AF _____

1. AF _____

2. Inner Hex AF _____

2. Hex Length _____

2. Inner Dia _____

2. SW _____

2. SH _____

3. SH _____

3. SH _____

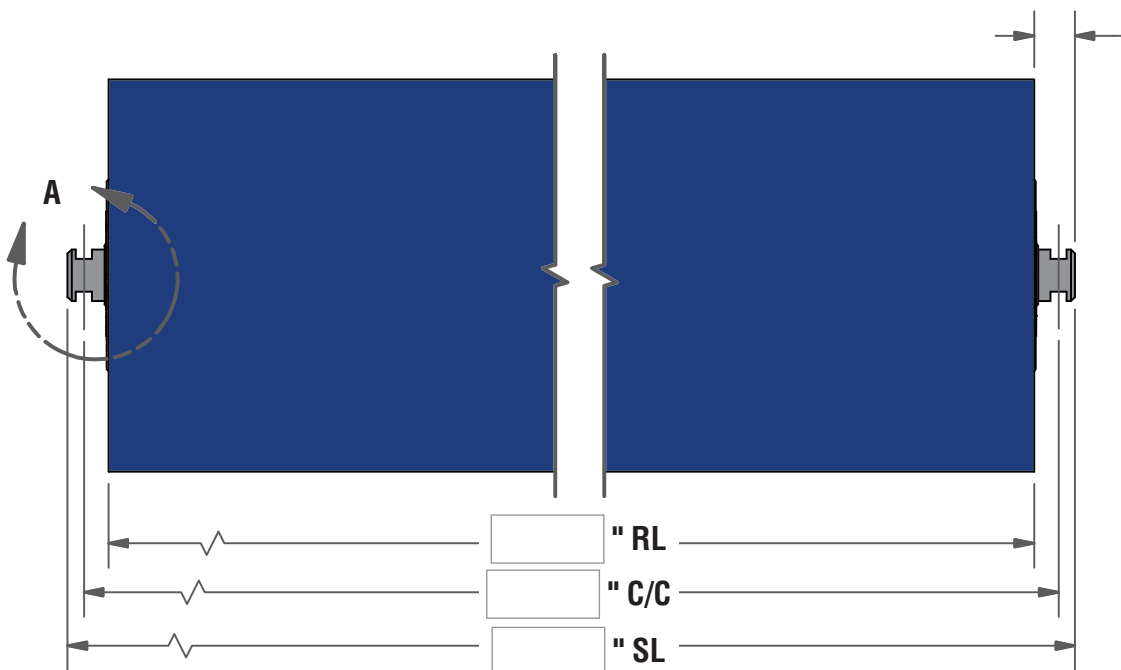
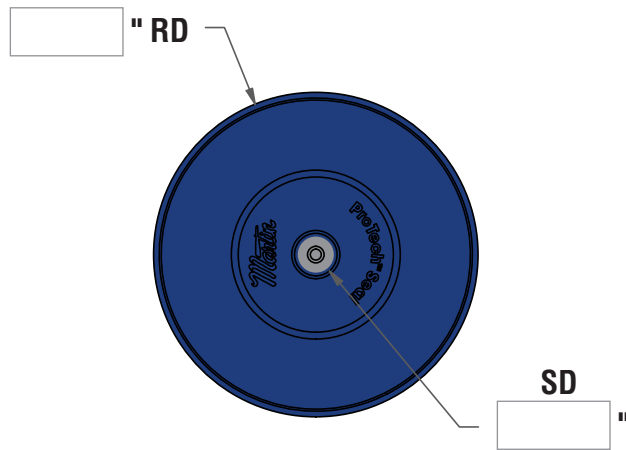
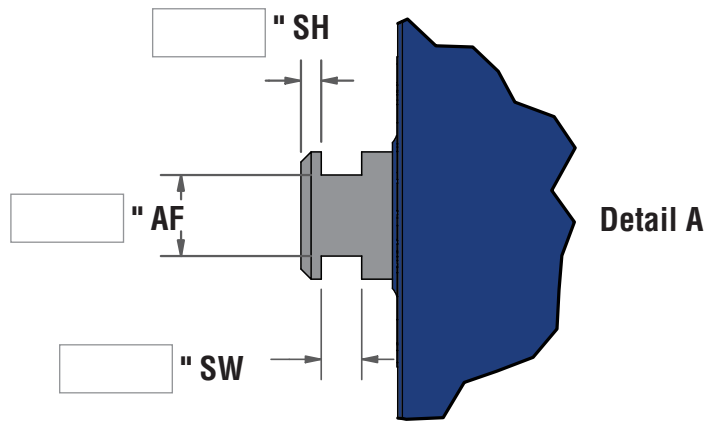
3. SW _____

4. SW _____

4. SW _____

KEY:

- Across Flats (AF)
- Shoulder (SH)
- Slot Width (SW)



Notes

Martin

GENERAL ENGINEERING INFORMATION

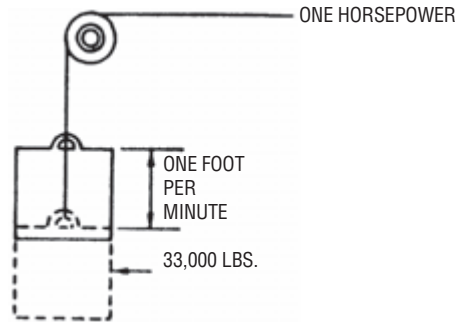
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ELECTRICAL MOTORS	<i>i-8</i>
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Horsepower/Torque



Horsepower

One HP is the rate of work required to raise 33,000 pounds one foot in one minute.



$$HP = \frac{\text{Force} \times \text{FPM}}{33,000}$$

$$HP = \frac{\text{Torque (in Pound-Inches)} \times \text{RPM}}{63,025}$$

$$HP = \frac{\text{Torque (in Pound-Feet)} \times \text{RPM}}{5,252}$$

Torque: The twisting or turning effort around a shaft tending to cause rotation. Torque is determined by multiplying the applied force times the distance from the point where force is applied to the shaft center.

$$TQ = F (\text{force}) \times R (\text{radius})$$

$$\begin{aligned} \text{Torque (in Pound-Inches)} &= \frac{63,025 \times \text{HP}}{\text{RPM}} \\ &= \text{Force} \times \text{Lever Arm (in Inches)} \\ \text{Torque (in Pound-Feet)} &= \frac{5,252 \times \text{HP}}{\text{RPM}} \\ &= \text{Force} \times \text{Lever Arm (in Feet)} \end{aligned}$$

Torque Calculation Example

20 HP at 100 RPM = 12,605 Pound-Inches Torque

2.0 HP at 10 RPM = 12,605 Pound-Inches Torque

Force = Working Loads in Pounds

FPM = Feet per Minute

RPM = Revolutions per Minute

Lever Arm = Distance from the Force to the center of rotation on Inches or Feet

Overhung Loads

An overhung load is a bending force imposed on a shaft due to the torque transmitted by V-drives, chain drives, and other power transmission devices, other than flexible couplings.

Most motor and reducer manufacturers list the maximum values allowable for overhung loads. It is desirable that these figures be compared with the load actually imposed by the connected drive.

Overhung loads may be calculated as follows:

$$O.H.L. = \frac{63,000 \times \text{HP} \times F}{N \times R}$$

Where: HP = Transmitted HP × Service Factor

N = RPM of shaft

R = Radius of sprocket, pulley, etc.

F = Factor

Weights of the drive components are usually negligible. The formula is based on the assumption that the load is applied at a point equal to one shaft diameter from the bearing face. Factor F depends on the type of drive used:

F =	1.00 for single chain drives
	1.10 for TIMING belt drives
	1.25 for spur or helical gear or double chain drives
	1.50 for V-belt drives
	2.50 for flat belt drives

Example: Find the overhung load imposed on a reducer by a double chain drive transmitting 7 HP @ 30 RPM. The pitch diameter of the sprocket is 10"; service factor is 1.3.

Solution:

$$O.H.L. = \frac{(63,000)(7 \times 1.3)}{(30)} \frac{(1.25)}{(5)} = 4,780 \text{ lbs.}$$

Horsepower/Speed/Torque Relationships

HP	Speed (RPM)	Torque
Constant	Increases	Decreases
Constant	Decreases	Increases
Increases	Constant	Increases
Decreases	Constant	Decreases
Increases	Increases	Constant
Decreases	Decreases	Constant



Torque (in Pound-Inches) For Horsepower/RPM

Torque for 1-50 HP @ 50-220 RPM

HP	Revolutions per Minute																	
	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220
1	1261	1050	900	788	700	630	573	525	485	450	420	394	371	350	332	315	300	286
2	2521	2101	1801	1576	1401	1260	1145	1050	969	900	840	787	741	700	663	630	600	572
3	3782	3151	2701	2363	2101	1890	1718	1575	1454	1350	1260	1181	1112	1050	995	945	900	859
4	5042	4202	3601	3151	2801	2521	2291	2100	1939	1800	1680	1575	1482	1400	1326	1260	1200	1145
5	6303	5252	4502	3939	3501	3151	2864	2626	2424	2250	2100	1969	1853	1750	1658	1575	1500	1432
6	7563	6303	5402	4727	4202	3781	3437	3151	2908	2701	2521	2363	2224	2100	1990	1890	1800	1718
7	8824	7353	6302	5515	4902	4411	4010	3676	3393	3151	2941	2757	2595	2450	2321	2205	2100	2005
8	10084	8403	7203	6303	5602	5042	4583	4201	3878	3601	3361	3151	2965	2801	2653	2521	2400	2291
9	11345	9454	8103	7090	6303	5672	5156	4726	4363	4051	3781	3545	3336	3151	2985	2836	2701	2578
10	12605	10504	9004	7878	7003	6302	5729	5252	4848	4501	4201	3939	3707	3501	3317	3151	3001	2864
11	13866	11555	9904	8666	7703	6932	6302	5777	5332	4951	4621	4332	4078	3851	3648	3466	3301	3151
12	15126	12605	10804	9454	8403	7563	6875	6302	5817	5402	5042	4726	4448	4201	3980	3781	3601	3437
13	16387	13655	11705	10242	9104	8193	7448	6827	6302	5852	5462	5120	4819	4551	4312	4096	3901	3724
14	17647	14706	12605	11029	9804	8823	8021	7352	6787	6302	5882	5514	5190	4901	4643	4411	4201	4010
15	18908	15756	13505	11817	10504	9453	8594	7878	7272	6752	6302	5908	5561	5252	4975	4726	4501	4297
16	20168	16807	14406	12605	11204	10084	9167	8403	7756	7202	6722	6302	5931	5602	5307	5042	4801	4583
17	21429	17857	15306	13393	11905	10714	9740	8928	8241	7653	7142	6696	6302	5952	5639	5357	5102	4870
18	22689	18908	16206	14181	12605	11344	10313	9453	8726	8103	7563	7090	6673	6302	5970	5672	5402	5156
19	23950	19958	17107	14968	13305	11974	10886	9979	9211	8553	7983	7484	7044	6652	6302	5987	5702	5443
20	25210	21008	18007	15756	14006	12605	11459	10504	9696	9003	8403	7878	7414	7002	6634	6302	6002	5729
21	26471	22059	18907	16544	14706	13235	12032	11029	10181	9453	8823	8272	7785	7352	6965	6617	6302	6016
22	27731	23109	19808	17332	15406	13865	12605	11554	10665	9903	9243	8665	8156	7703	7297	6932	6602	6302
23	28992	24160	20708	18120	16106	14495	13178	12079	11150	10354	9663	9059	8526	8053	7629	7247	6902	6588
24	30252	25210	21609	18908	16807	15126	13750	12605	11635	10804	10084	9453	8897	8403	7961	7563	7202	6875
25	31513	26260	22509	19695	17507	15756	14323	13130	12120	11254	10504	9847	9268	8753	8292	7878	7503	7161
26	32773	27311	23409	20483	18207	16386	14896	13655	12605	11704	10924	10241	9639	9103	8624	8193	7803	7448
27	34034	28361	24310	21271	18908	17016	15469	14180	13089	12154	11344	10635	10009	9453	8956	8508	8103	7734
28	35294	29412	25210	22059	19608	17647	16042	14705	13574	12605	11764	11029	10380	9803	9287	8823	8403	8021
29	36555	30462	26110	22847	20308	18277	16615	15231	14059	13055	12184	11423	10751	10154	9619	9138	8703	8307
30	37815	31513	27011	23634	21008	18907	17188	15756	14544	13505	12605	11817	11122	10504	9951	9453	9003	8594
31	39076	32563	27911	24422	21709	19537	17761	16281	15029	13955	13025	12211	11492	10854	10283	9768	9303	8880
32	40336	33613	28811	25210	22409	20168	18334	16806	15513	14405	13445	12605	11863	11204	10614	10084	9603	9167
33	41597	34664	29712	25998	23109	20798	18907	17331	15998	14855	13865	12998	12234	11554	10946	10399	9903	9453
34	42857	35714	30612	26786	23809	21428	19480	17857	16483	15306	14285	13392	12605	11904	11278	10714	10204	9740
35	44118	36767	31512	27573	24510	22058	20053	18382	16968	15756	14705	13786	12975	12254	11609	11029	10504	10026
36	45378	37815	32413	28361	25210	22689	20626	18907	17453	16206	15126	14180	13346	12605	11941	11344	10804	10313
37	46639	38865	33313	29149	25910	23319	21199	19432	17937	16656	15546	14574	13717	12955	12273	11659	11104	10599
38	47899	39916	34214	29937	26611	23949	21772	19958	18422	17106	15966	14968	14088	13305	12605	11974	11404	10886
39	49160	40996	35114	30725	27311	24579	22345	20483	18907	17557	16386	15362	14458	13655	12936	12289	11704	11172
40	50420	42017	36014	31513	28011	25210	22918	21008	19392	18007	16806	15756	14829	14005	13268	12605	12004	11459
41	51681	43067	36915	32300	28711	25840	23491	21533	19877	18457	17226	16150	15200	14355	13600	12920	12304	11745
42	52941	44118	37815	33088	29412	26470	24064	22058	20362	18907	17647	16544	15570	14705	13931	13235	12605	12032
43	54202	45168	38715	33876	30112	27100	24637	22584	20846	19357	18067	16938	15941	15056	14263	13550	12905	12318
44	55462	46218	39616	34664	30812	27731	25210	23109	21331	19807	18487	17331	16312	15406	14595	13865	13205	12605
45	56723	47269	40516	35452	31513	28361	25783	23634	21816	20258	18907	17725	16683	15756	14927	14180	13505	12891
46	57383	48319	41416	36239	32213	28991	26356	24159	22301	20708	19327	18119	17053	16106	15258	14495	13805	13177
47	59244	49370	42317	37027	32913	29621	26928	24684	22786	21158	19747	18513	17424	16456	15590	14810	14105	13464
48	60504	50420	43217	37815	33613	30252	27501	25210	23270	21608	20168	18907	17795	16806	14922	15126	14405	13750
49	61764	51470	44117	38603	34314	30882	28074	25735	23755	22058	20588	19301	18166	17156	16253	15441	14705	14037
50	63025	52521	45018	39319	35014	31512	28647	26260	24240	22509	21008	19695	18536	17507	16585	15756	15006	14323

Torque (in Pound-Inches) For Horsepower/RPM



Torque for 1-50 HP @ 230-1000 RPM

HP	Revolutions per Minute																		
	230	240	250	260	270	280	290	300	350	400	450	500	550	600	650	700	800	900	1000
1	274	263	252	242	233	225	217	210	180	157	140	126	114	105	96	90	78	70	63
2	548	525	504	484	466	450	434	420	360	315	280	252	229	210	193	180	157	140	126
3	822	787	756	727	700	675	651	630	540	472	420	378	343	315	290	270	236	210	189
4	1096	1050	1008	969	933	900	869	840	720	630	560	504	458	420	387	360	315	280	252
5	1370	1313	1260	1212	1167	1125	1087	1050	900	787	700	630	572	525	484	450	393	350	315
6	1644	1575	1512	1454	1401	1350	1303	1260	1080	945	840	756	687	630	581	540	472	420	378
7	1918	1838	1764	1696	1633	1575	1521	1470	1260	1102	980	882	802	735	678	630	551	490	441
8	2192	2100	2016	1939	1867	1800	1738	1680	1440	1260	1120	1008	916	840	775	720	630	560	504
9	2466	2363	2268	2181	2100	2025	1955	1890	1620	1418	1260	1134	1031	945	872	810	709	630	567
10	2740	2626	2521	2424	2334	2250	2173	2100	1800	1575	1400	1260	1145	1050	969	900	787	700	630
11	3014	2888	2773	2666	2567	2475	2390	2310	1980	1733	1540	1386	1260	1155	1066	990	866	770	693
12	3288	3151	3025	2908	2801	2701	2607	2521	2160	1890	1680	1512	1375	1260	1163	1080	945	840	756
13	3562	3413	3277	3151	3034	2926	2825	2731	2340	2048	1820	1638	1489	1365	1260	1170	1024	910	819
14	3836	3676	3529	3393	3267	3151	3042	2941	2521	2205	1960	1764	1604	1470	1357	1260	1102	980	882
15	4110	3939	3781	3636	3501	3376	3259	3151	2701	2363	2100	1890	1718	1575	1454	1350	1181	1050	945
16	4384	4201	4033	3878	3734	3601	3477	3361	2881	2521	2240	2016	1833	1680	1551	1440	1260	1120	1008
17	4658	4464	4285	4120	3968	3826	3694	3571	3061	2678	2380	2142	1948	1785	1648	1530	1339	1190	1071
18	4932	4726	4537	4363	4201	4051	3911	3781	3241	2836	2521	2268	2062	1890	1745	1620	1418	1260	1134
19	5206	4989	4789	4605	4435	4276	4129	3991	3421	2993	2661	2394	2177	1995	1842	1710	1496	1330	1197
20	5480	5252	5042	4848	4668	4501	4346	4201	3601	3151	2801	2521	2291	2100	1939	1800	1575	1400	1260
21	5754	5514	5294	5090	4901	4726	4563	4411	3781	3308	2941	2647	2406	2205	2036	1890	1654	1470	1323
22	6028	5777	5546	5332	5135	4951	4781	4621	3961	3466	3081	2773	2521	2310	2133	1980	1733	1540	1386
23	6302	6039	5798	5575	5368	5177	4998	4831	4141	3623	3221	2899	2635	2415	2230	2070	1811	1610	1449
24	6576	6302	6050	5817	5602	5402	5215	5042	4321	3781	3361	3025	2750	2521	2327	2160	1890	1680	1512
25	6850	6565	6302	6060	5835	5627	5433	5252	4501	3939	3501	3151	2864	2626	2424	2250	1969	1750	1575
26	7124	6827	6554	6302	6069	5852	5650	5462	4681	4096	3641	3277	2979	2731	2521	2340	2048	1820	1638
27	7398	7090	6806	6544	6302	6077	5867	5672	4861	4254	3781	3403	3093	2836	2617	2430	2127	1890	1701
28	7672	7352	7058	6787	6535	6302	6085	5882	5042	4411	3921	3529	3208	2941	2714	2521	2205	1960	1764
29	7946	7615	7310	7029	6769	6527	6302	6092	5222	4569	4061	3655	3323	3046	2811	2611	2284	2030	1827
30	8220	7878	7563	7272	7002	6752	6519	6302	5402	4726	4201	3781	3437	3151	2908	2701	2363	2100	1890
31	8494	8140	7815	7514	7236	6977	6737	6512	5582	4884	4341	3907	3552	3256	3005	2791	2442	2170	1953
32	8768	8403	8067	7756	7469	7202	6954	6722	5762	5042	4481	4033	3666	3361	3102	2881	2520	2240	2016
33	9042	8665	8319	7999	7703	7427	7171	6932	5942	5199	4621	4159	3781	3466	3199	2971	2599	2310	2079
34	9316	8928	8571	8241	7936	7653	7389	7142	6122	5357	4761	4285	3896	3571	3296	3061	2678	2380	2142
35	9590	9191	8823	8484	8169	7878	7606	7352	6302	5514	4901	4411	4010	3676	3393	3151	2757	2450	2205
36	9864	9453	9075	8726	8403	8103	7823	7563	6482	5672	5042	4537	4125	3781	3490	3241	2836	2521	2268
37	10138	9716	9327	8968	8636	8328	8041	7773	6662	5829	5182	4663	4239	3886	3587	3331	2913	2591	2331
38	10412	9978	9579	9211	8870	8553	8258	7983	6842	5987	5322	4789	4354	3991	3684	3421	2993	2661	2394
39	10686	10241	9831	9453	9103	8778	8475	8193	7022	6144	5462	4915	4469	4096	3781	3511	3072	2731	2457
40	10960	10504	10084	9696	9337	9003	8693	8403	7202	6302	5602	5042	4583	4201	3878	3601	3151	2801	2521
41	11234	10766	10336	9938	9570	9228	8910	8613	7382	6460	5742	5168	4698	4306	3975	3691	3230	2871	2584
42	11508	11029	10588	10181	9803	9453	9127	8823	7563	6617	5882	5294	4812	4411	4072	3781	3308	2941	2647
43	11782	11292	10840	10423	10037	9678	9345	9033	7743	6775	6022	5420	4927	4516	4169	3871	3387	3011	2710
44	12056	11554	11092	10665	10270	9903	9562	9243	7923	6932	6162	5546	5042	4621	4266	3961	3466	3081	2773
45	12331	11817	11344	10908	10504	10129	9779	9453	8103	7090	6302	5672	5156	4726	4363	4051	3545	3151	2836
46	12605	12079	11596	11150	10737	10354	9997	9663	8283	7247	6442	5798	5271	4831	4460	4141	3623	3221	2899
47	12879	12342	11848	11393	10971	10579	10214	9873	8463	7405	6582	5924	5385	4936	4557	4231	3702	3291	2962
48	13153	12605	12100	11635	11204	10804	10431	10084	8643	7563	6722	6050	5500	5042	4654	4321	3781	3361	3025
49	13427	12867	12352	11877	11437	11029	10649	10294	8823	7720	6862	6176	5614	5147	4751	4411	3860	3431	3088
50	13701	13130	12605	12120	11671	11254	10866	10504	9003	7878	7002	6302	5729	5252	4848	4501	3939	3501	3151



Torque (in Pound-Inches) For Horsepower/RPM

Torque for 51-100 HP @ 50-220 RPM

HP	Revolutions per Minute																	
	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220
51	64286	53571	45918	40178	35714	32142	29220	26785	24725	22959	21428	20089	18907	17857	16917	16071	15306	14610
52	65546	54622	46819	40966	36414	32773	29793	27310	25210	23409	21848	20483	19278	18207	17249	16386	15606	14896
53	66807	55672	47719	41754	37115	33403	30366	27836	25694	23859	22268	20877	19649	18557	17580	16701	15906	15183
54	68067	56723	48619	42542	37815	34033	30939	28361	26179	24309	22689	21271	20019	18907	17912	17016	16206	15469
55	69328	57773	49520	43330	38515	34663	31512	28886	26664	24760	23109	21664	20390	19257	18244	17331	16506	15756
56	70588	58823	50420	44118	39216	35294	32085	29411	27149	25210	23529	22058	20761	19607	18575	17647	16806	16042
57	71849	59874	51320	44905	39916	35924	32658	29937	27634	25660	23950	22452	21132	19957	18907	17962	17106	16329
58	73109	60924	52221	45693	40616	36554	33231	30462	28118	26110	24370	22846	21502	20308	19239	18277	17406	16615
59	74370	61975	53121	46481	41316	37184	33804	30987	28603	26560	24790	23240	21873	20658	19571	18592	17707	16902
60	75630	63025	54021	47269	42017	37815	34377	31512	29088	27010	25210	23634	22244	21008	19902	18907	18007	17188
61	76891	64075	54922	48057	42717	38445	34950	32037	29573	27461	25630	24028	22614	21358	20234	19222	18307	17475
62	78151	65126	55822	48844	43417	39075	35523	32563	30058	27911	26050	24422	22985	21708	20566	19537	18607	17761
63	79412	66176	56722	49632	44118	39705	36096	33088	30543	28361	26470	24816	23356	22058	20897	19852	18907	18048
64	80672	67227	57623	50420	44818	40336	36669	33613	31027	28811	26890	25210	23727	22408	21229	20168	19207	18334
65	81933	68277	58523	51208	45518	40966	37242	34138	31512	29261	27310	25604	24097	22759	21561	20483	19507	18621
66	83193	69328	59423	51996	46218	41596	37815	34663	31997	29711	27731	25997	24468	23109	21892	20798	19807	18907
67	84454	70378	60324	52783	46919	42226	38388	35189	32482	30162	28151	26391	24839	23459	22224	21113	20108	19194
68	85714	71428	61224	53571	47619	42857	38961	35714	32967	30612	28571	26785	25210	23809	22556	21428	20408	19480
69	86975	72479	62125	54359	48319	43487	39534	36239	33451	31062	28991	27179	25580	24159	22888	21743	20708	19766
70	88235	73529	63025	55147	49019	44117	40106	36764	33936	31512	29411	27573	25951	24509	23219	22058	21008	20053
71	89496	74580	63925	55935	49720	44747	40679	37289	34421	31962	29831	27967	26322	24859	23551	22373	21308	20339
72	90756	75630	64826	56723	50420	45378	41252	37815	34906	32413	30252	28361	26693	25210	23883	22689	21608	20626
73	92017	76680	65726	57510	51120	46008	41825	38340	35391	32863	30672	28755	27063	25560	24214	23004	21908	20912
74	93277	77731	66626	58298	51821	46638	42398	38865	35875	33313	31092	29149	27434	25910	24546	23319	22208	21199
75	94538	78781	67527	59086	52521	47268	42971	39390	36360	33763	31512	29543	27805	26260	24878	23634	22509	21485
76	95798	79832	68427	59874	53221	47899	43544	39916	36845	34213	31932	29937	28176	26610	25210	23949	22809	21772
77	97059	80882	69327	60662	53921	48529	44117	40441	37330	34663	32353	30330	28546	26960	25541	24264	23109	22058
78	98319	81933	70228	61449	54622	49159	44690	40966	37815	35114	32773	30724	28917	27310	25873	24579	23409	22345
79	99580	82983	71128	62237	55322	49789	45263	41491	38299	35564	33193	31118	29288	27661	26205	24894	23709	22631
80	100804	84033	72029	63024	56022	50420	45836	42016	38784	36014	33613	31512	29658	28011	26536	25210	24009	22918
81	102101	85084	72929	63813	56722	51050	46409	42542	39269	36464	34033	31906	30029	28361	26868	25525	24309	23204
82	103361	86134	73829	64601	57423	51680	46982	43067	39754	36914	34453	32300	30400	28711	27200	25840	24609	23491
83	104622	87185	74730	65388	58123	52310	47555	43592	40239	37365	34874	32694	30771	29061	27532	26155	24909	23777
84	105882	88235	75630	66176	58823	52941	48128	44117	40724	37815	35294	33088	31141	29411	27863	26470	25210	24064
85	107143	89285	76530	66964	59524	53571	48701	44642	41208	38265	35714	33482	31512	29761	28195	26785	25510	24350
86	108403	90336	77430	67752	60224	54201	49274	45168	41693	38715	36134	33876	31883	30112	28527	27100	25810	24637
87	109664	91386	78331	68540	60924	54831	49847	45693	42178	39165	36554	34269	32254	30462	28858	27415	26110	24923
88	110924	92437	79231	69328	61624	55462	50420	46218	42663	39615	36974	34663	32624	30812	29190	27731	26410	25210
89	112185	93487	80132	70115	62325	56092	50993	46743	43148	40066	37395	35057	32995	31163	29522	28046	26710	25496
90	113445	94538	81032	70903	63025	56722	51566	47268	43632	40516	37815	35451	33366	31512	29854	28361	27010	25783
91	114706	95588	81932	71691	63725	57352	52139	47794	44117	40966	38235	35845	33737	31862	30185	28676	27310	26069
92	115967	96638	82833	72479	64426	57983	52712	48319	44602	41416	38655	36239	34107	32212	30517	28991	27611	26355
93	117227	97689	83733	73267	65126	58613	53285	48844	45087	41866	39075	36633	34478	32563	30849	29306	27911	26642
94	118487	98739	84634	74054	65826	59243	53857	49369	45572	42317	39495	37027	34849	32913	31180	29621	28211	26928
95	119748	99790	85534	74842	66526	59873	54430	49895	46056	42767	39916	37421	35220	33263	31512	29936	28511	27215
96	121008	100840	86434	75630	67227	60504	55003	50420	46541	43217	40336	37815	35590	33613	31844	30252	28811	27501
97	122269	101890	87335	76418	67927	61134	55576	50945	47026	43667	40756	38209	35961	33963	32176	30567	29111	27788
98	123529	102941	88235	77206	68627	61764	56149	51470	47511	44117	41176	38602	36332	34313	32507	30882	29411	28074
99	124780	103991	89135	77993	69328	62394	56722	51995	47996	44567	41596	38996	36702	34663	32839	31197	29711	28361
100	126050	105042	90036	78781	70028	63025	57295	52521	48481	45018	42016	39390	37073	35014	33171	31512	30012	28647

Torque (in Pound-Inches) For Horsepower/RPM



Torque for 51-100 HP @ 230-1000 RPM

HP	Revolutions per Minute																		
	230	240	250	260	270	280	290	300	350	400	450	500	550	600	650	700	800	900	1000
51	13975	13392	12857	12362	11904	11479	11083	10714	9183	8035	7141	6428	5844	5357	4945	4591	4017	3571	3314
52	14249	13655	13109	12605	12138	11704	11301	10924	9363	8193	7282	6554	5958	5462	5042	4681	4096	3641	3277
53	14523	13918	13361	12847	12371	11929	11518	11134	9543	8350	7422	6680	6073	5567	5138	4771	4175	3711	3340
54	14797	14180	13613	13089	12605	12154	11735	11344	9723	8508	7563	6806	6187	5672	5235	4861	4254	3781	3403
55	15071	14443	13865	13332	12838	12379	11953	11554	9903	8665	7703	6932	6302	5777	5332	4951	4332	3851	3466
56	15345	14705	14117	13574	13071	12605	12170	11764	10084	8823	7843	7058	6417	5882	5429	5042	4411	3921	3529
57	15619	14968	14369	13817	13305	12830	12387	11974	10264	8981	7983	7184	6531	5987	5526	5132	4490	3991	3592
58	15893	15231	14621	14059	13538	13055	12605	12184	10444	9138	8123	7310	6646	6092	5623	5222	4569	4061	3655
59	16167	15493	14873	14301	13772	13280	12822	12394	10624	9296	8263	7436	6760	6197	5720	5312	4648	4131	3718
60	16441	15756	15126	14544	14055	13505	13039	12605	10804	9453	8403	7563	6875	6302	5817	5402	4726	4201	3781
61	16715	16018	15378	14786	14239	13730	13257	12815	10984	9611	8543	7689	6990	6407	5914	5492	4805	4271	3844
62	16989	16281	15630	15029	14472	13955	13474	13025	11164	9768	8683	7815	7104	6512	6011	5582	4884	4341	3907
63	17263	16544	15882	15271	14705	14180	13691	13235	11344	9926	8823	7941	7219	6617	6108	5672	4963	4411	3970
64	17537	16806	16134	15513	14939	14405	13908	13445	11524	10084	8963	8067	7333	6722	6205	5762	5041	4481	4033
65	17811	17069	16386	15756	15172	14630	14126	13655	11704	10241	9103	8193	7448	6827	6302	5852	5120	4551	4096
66	18085	17331	16638	15998	15406	14855	14343	13865	11884	10399	9243	8319	7563	6932	6399	5942	5199	4621	4159
67	18359	17594	16890	16241	15639	15081	14560	14075	12064	10556	9383	8445	7677	7037	6496	6032	5278	4691	4222
68	18633	17857	17142	16483	15873	15306	14778	14285	12244	10714	9523	8571	7792	7142	6593	6122	5357	4761	4285
69	18907	18119	17394	16725	16106	15531	14995	14495	12424	10871	9663	8697	7906	7247	6690	6212	5435	4831	4348
70	19181	18382	17647	16968	16339	15756	15212	14705	12605	11029	9803	8823	8021	7352	6787	6302	5514	4901	4411
71	19455	18644	17899	17210	16573	15981	15430	14915	12785	11186	9943	8949	8135	7457	6884	6392	5593	4971	4474
72	19729	18907	18151	17453	16806	16206	15647	15126	12965	11344	10084	9075	8250	7563	6981	6482	5672	5042	4537
73	20003	19170	18403	17695	17040	16431	15864	15336	13145	11502	10224	9201	8365	7668	7078	6572	5751	5112	4600
74	20277	19432	18655	17937	17273	16656	16082	15546	13325	11659	10364	9327	8479	7773	7175	6662	5829	5182	4663
75	20551	19695	18907	18180	17507	16881	16299	15756	13505	11817	10504	9453	8594	7878	7272	6752	5908	5252	4726
76	20825	19957	19159	18422	17740	17106	16516	15966	13685	11974	10644	9579	8708	7983	7369	6842	5987	5322	4789
77	21099	20220	19411	18665	17973	17331	16734	16176	13865	12132	10784	9705	8823	8088	7466	6932	6066	5392	4852
78	21373	20483	19663	18907	18207	17557	16951	16386	14045	12289	10924	9831	8938	8193	7563	7022	6144	5462	4915
79	21647	20745	19915	19149	18440	17782	17168	16596	14225	12447	11064	9957	9052	8298	7659	7112	6223	5532	4978
80	21921	21008	20168	19392	18674	18007	17386	16806	14405	12605	11204	10084	9167	8403	7756	7202	6302	5602	5042
81	22195	21271	20420	19634	18907	18232	17603	17016	14585	12762	11344	10210	9281	8508	7853	7292	6381	5672	5105
82	22469	21533	20672	19877	19141	18457	17820	17226	14765	12920	11484	10336	9396	8613	7950	7382	6460	5742	5168
83	22743	21796	20924	20119	19374	18682	18038	17436	14945	13077	11624	10462	9511	8718	8047	7472	6538	5812	5231
84	23017	22058	21176	20362	19607	18907	18255	17647	15126	13235	11764	10588	9625	8823	8144	7563	6617	5882	5294
85	23291	22321	21428	20604	19841	19132	18472	17857	15306	13392	11904	10714	9740	8928	8241	7653	6696	5952	5357
86	23565	22584	21680	20846	20074	19357	18690	18067	15486	13550	12044	10840	9854	9033	8338	7743	6775	6022	5420
87	23840	22846	21932	21089	20308	19582	18907	18277	15666	13707	12184	10966	9969	9138	8435	7833	6853	6092	5483
88	24114	23109	22184	21331	20541	19807	19124	18487	15846	13865	12324	11092	10084	9243	8532	7923	6932	6162	5546
89	24388	23371	22436	21574	20775	20033	19342	18697	16026	14023	12464	11218	10198	9348	8629	8013	7011	6232	5609
90	24662	23634	22689	21816	21008	20258	19559	18907	16206	14180	12605	11344	10313	9453	8726	8103	7090	6302	5672
91	24936	23897	22941	22058	21241	20483	19776	19117	16386	14338	12745	11470	10427	9558	8823	8193	7169	6372	5735
92	25210	24159	23193	22301	21475	20708	19994	19327	16566	14495	12885	11596	10542	9663	8920	8283	7247	6442	5798
93	25484	24422	23445	22543	21708	20933	20211	19537	16746	14653	13025	11722	10656	9768	9017	8373	7326	6512	5861
94	25758	24684	23697	22786	21942	21158	20428	19747	16926	14810	13165	11848	10771	9873	9114	8463	7405	6582	5924
95	26032	24947	23949	23028	22175	21383	20646	19957	17106	14968	13305	11974	10886	9978	9211	8553	7484	6652	5987
96	26306	25210	24201	23270	22408	21608	20863	20168	17286	15126	13445	12100	11000	10084	9308	8643	7562	6722	6050
97	26580	25472	24453	23513	22642	21833	21080	20378	17466	15383	13585	12226	11115	10189	9405	8733	7641	6792	6113
98	26854	25735	24705	23755	22875	22058	21298	20588	17647	15441	13725	12352	11229	10294	9502	8823	7720	6862	6176
99	27128	25997	24957	23998	23109	22283	21515	20798	17827	15598	13865	12478	11344	10399	9599	8913	7799	6932	6239
100	27402	26260	25210	24240	23342	22509	21732	21008	18007	15756	14005	12605	11459	10504	9696	9003	7878	7002	6302

Electrical Formulas

To Find	Alternating Current		To Find	Alternating or Direct Current
	Single-Phase	Three-Phase		
Amperes when horsepower is known	$\frac{HP \times 746}{E \times \text{Eff.} \times \text{pf}}$	$\frac{HP \times 746}{1.73 \times E \times \text{Eff.} \times \text{pf}}$	Amperes when voltage and resistance is known	$\frac{E}{R}$
Amperes when kilowatts are known	$\frac{Kw \times 1000}{E \times \text{pf}}$	$\frac{Kw \times 1000}{1.73 \times E \times \text{pf}}$	Voltage when resistance and current are known	IR
Amperes when Kva are known	$\frac{Kva \times 1000}{E}$	$\frac{Kva \times 1000}{1.73 \times E}$	Resistance when voltage and current are known	$\frac{E}{I}$
Kilowatts	$\frac{I \times E \times \text{pf}}{1000}$	$\frac{1.73 \times I \times E \times \text{pf}}{1000}$	General Information (Approximation) All Values At 100% Load { At 1800 RPM, a motor develops 36 lb.-in. per hp At 1200 RPM, a motor develops 54 lb.-in. per hp At 575 volts, a 3-phase motor draws 1 amp per hp At 460 volts, a 3-phase motor draws 1.25 amp per hp At 230 volts, a 3-phase motor draws 2.5 amp per hp At 230 volts, a single-phase motor draws 5 amp per hp At 115 volts, a single-phase motor draws 10 amp per hp	
Kva	$\frac{I \times E}{1000}$	$\frac{1.73 \times I \times E}{1000}$		
Horsepower = (Output)	$\frac{I \times E \times \text{Eff.} \times \text{pf}}{746}$	$\frac{1.73 \times I \times E \times \text{Eff.} \times \text{pf}}{746}$		
I = Amperes; E = Volts; Eff. = Efficiency; pf = power factor; Kva = Kilovolt amperes; Kw = Kilowatts; R = Ohms				
Temperature Conversion: Deg C = (Deg F - 32) × ⅕ Deg F = (Deg C × ⅑) + 32				

Motor Amps @ Full Load †

HP	Alternating Current		DC	HP	Alternating Current		DC	HP	Alternating Current		DC	HP	Alternating Current		DC
	Single Phase	3-Phase			Single Phase	3-Phase			Single Phase	3-Phase			Single Phase	3-Phase	
½	4.9	2.0	2.7	5	28	14.4	20	25	....	60	92	75	....	180	268
1	8.0	3.4	4.8	7½	40	21.0	29	30	....	75	110	100	....	240	355
1½	10.0	4.8	6.6	10	50	26.0	38	40	....	100	146	125	....	300	443
2	12.0	6.2	8.5	15	....	38.0	56	50	....	120	180	150	....	360	534
3	17.0	8.6	12.5	20	....	50.0	74	60	....	150	215	200	....	480	712

† Values are for all speeds and frequencies @ 230 volts.
 Amperage other than 230 volts can be figured:

$$V = \frac{230 \times \text{Amp from Table}}{\text{New Voltage}}$$

Example:

For 60 HP, 3 phase @ 550 volts: $\frac{(230 \times 150)}{550} = 62$ amps.

Power Factor estimated @ 80% for most motors. Efficiency is usually 80-90%.

NEMA Electrical Enclosure Types

Type	Description	Type	Description
NEMA Type 1 (General Purpose)	For indoor use wherever oil, dust, or water is not a problem	NEMA Type 5 Dust Tight (Non-Hazardous)	Used for excluding dust (All NEMA 12 and JIC enclosures are usually suitable for NEMA 5 use)
NEMA Type 2 (Driptight)	Used indoors to exclude falling moisture and dirt	NEMA Type 9 Dust Tight (Hazardous)*	For locations where combustible dusts are present
NEMA Type 3 (Weatherproof)	Provides protection against rain, sleet, and snow	NEMA Type 12 (Industrial Use)	Used for excluding oil, coolant, flying dust, lint, etc
NEMA Type 4 (Watertight) †	Needed when subject to great amounts of water from any angle — such as areas which are repeatedly hosed down		

NOTE: Joint Industry Conference (JIC) enclosures are similar in design to NEMA 12's. For more complete details see NEMA or JIC Standards for enclosures.

† Not designed to be submerged.

* Class II Groups E, F, and G.

NEMA Frame Designation



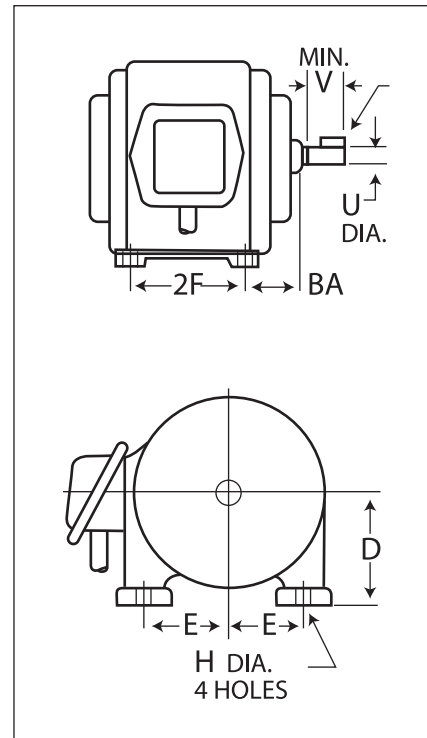
NEMA Frame Designation

Frame Assignments

HP	Motor Speed, RPM				HP	Motor Speed, RPM			
	3600	1800	1200	900		3600	1800	1200	900
1/4-1/2	—	48	—	—	15	215T, 256U	254T, 284U	284T, 324U	286T, 326U
1/2-1	48	—	56	—	20	254T, 284U	256T, 286U	286T, 326U	324T, 364U
3/4-1	—	56	—	—	25	256T, 286U	284T, 324U	324T, 364U	326T, 365U
1-1 1/2	—	—	—	—	30	284TS, 324S	286T, 326U	326T, 365U	364T, 404U
1 1/2-2	56	—	—	—	40	286TS, 326S	324T, 364U	364T, 404U	365T, 405U
3/2	—	—	—	143T	50	324TS, 364US	326T, 365U, 365US	365T, 405U	404T, 444U
2	—	—	143T	145T	60	326TS, 365US	364TS▲, 404U, 404US	404T, 444U	405T, 445U
3	—	143T	145T	182T	75	364TS, 404US	365TS▲, 405U, 405US	405T, 445U	444T
4	143T	145T	182T	184T	100	365TS, 405US	404TS▲, 444US	444T	445T
5	145T	145T	184T	213T	125	404TS, 444US	405TS▲, 445US	445T	—
7 1/2	—	182T	213T	215T, 254U	150	405TS, 445US	444TS▲	—	—
10	184T	184T	215T, 254U	215T, 254U	200	—	445TS▲	—	—
10	213T, 254U	213T, 254U	254T, 256U	254T, 256U	250	—	—	—	—
10	—	215T, 256U	256T, 284U	284T, 286U	—	—	—	—	—

Motor Frame Dimensions

Frame Size	D	E	2F	H Dia. (4) Holes	U Dia.	BA	V Min.	Key
48	3	2 1/2	2 3/4	1 1/2	1/2	2 1/2	...	3/16 FLAT
56	3 1/2	2 1/2	3	1 1/2	3/4	2 3/4	...	3/16 x 3/16 x 1 1/2
143T	3 1/2	2 3/4	4	1 1/2	3/4	2 3/4	2	3/16 x 3/16 x 1 3/4
145T	3 1/2	2 3/4	5	1 1/2	3/4	2 3/4	2	3/16 x 3/16 x 1 3/4
182T	4 1/2	3 3/4	4 1/2	1 3/2	1 1/4	2 1/2	2 1/2	1/4 x 1/4 x 1 3/4
184T	4 1/2	3 3/4	5 1/2	1 3/2	1 1/4	2 3/4	2 1/2	1/4 x 1/4 x 1 3/4
213T	5 1/4	4 1/4	5 1/2	1 3/2	1 1/4	3 1/2	3 1/2	3/16 x 3/16 x 2 3/4
215T	5 1/4	4 1/4	7	1 3/2	1 1/4	3 1/2	3 1/2	3/16 x 3/16 x 2 3/4
254U	6 1/4	5	8 1/4	1 3/2	1 1/4	4 1/2	3 1/2	3/16 x 3/16 x 2 3/4
254T	6 1/4	5	8 1/4	1 3/2	1 1/4	4 1/2	3 1/2	3/16 x 3/16 x 2 3/4
256U	6 1/4	5	10	1 3/2	1 1/4	4 1/2	3 1/2	3/16 x 3/16 x 2 3/4
256T	6 1/4	5	10	1 3/2	1 1/4	4 1/2	3 1/2	3/16 x 3/16 x 2 3/4
284U	7	5 1/2	9 1/2	1 3/2	1 1/4	4 3/4	4 1/2	3/8 x 3/8 x 3 3/4
284T	7	5 1/2	9 1/2	1 3/2	1 1/4	4 3/4	4 1/2	1/2 x 1/2 x 3 1/4
284TS	7	5 1/2	9 1/2	1 3/2	1 1/4	4 3/4	3	3/8 x 3/8 x 1 1/2
286U	7	5 1/2	11	1 3/2	1 1/4	4 3/4	4 1/2	3/8 x 3/8 x 3 3/4
286T	7	5 1/2	11	1 3/2	1 1/4	4 3/4	4 1/2	1/2 x 1/2 x 3 1/4
286TS	7	5 1/2	11	1 3/2	1 1/4	4 3/4	3	3/8 x 3/8 x 1 1/2
324U	8	6 1/4	10 1/2	2 1/2	1 1/4	5 1/2	5 1/2	1/2 x 1/2 x 4 1/4
324T	8	6 1/4	10 1/2	2 1/2	1 1/4	5 1/2	5	1/2 x 1/2 x 3 3/4
324TS	8	6 1/4	10 1/2	2 1/2	1 1/4	5 1/2	3 1/2	1/2 x 1/2 x 2
326U	8	6 1/4	12	2 1/2	1 1/4	5 1/2	5 1/2	1/2 x 1/2 x 4 1/4
326T	8	6 1/4	12	2 1/2	1 1/4	5 1/2	5	1/2 x 1/2 x 3 3/4
326TS	8	6 1/4	12	2 1/2	1 1/4	5 1/2	3 1/2	1/2 x 1/2 x 2
364U	9	7	11 1/4	2 1/2	2 1/2	5 3/4	6 1/2	1/2 x 1/2 x 5 1/4
364US	9	7	11 1/4	2 1/2	1 1/2	5 3/4	3 1/2	1/2 x 1/2 x 2
364T	9	7	11 1/4	2 1/2	2 1/2	5 3/4	5 1/2	3/8 x 3/8 x 4 1/4
364TS	9	7	11 1/4	2 1/2	1 1/2	5 3/4	3 1/2	1/2 x 1/2 x 2
365U	9	7	12 1/4	2 1/2	2 1/2	5 3/4	6 1/2	1/2 x 1/2 x 5 1/4
365US	9	7	12 1/4	2 1/2	1 1/2	5 3/4	3 1/2	1/2 x 1/2 x 2
365T	9	7	12 1/4	2 1/2	2 1/2	5 3/4	5 1/2	3/8 x 3/8 x 4 1/4
365TS	9	7	12 1/4	2 1/2	1 1/2	5 3/4	3 1/2	1/2 x 1/2 x 2
404U	10	8	12 1/4	3 1/2	2 1/2	6 1/2	6 1/2	3/8 x 3/8 x 5 1/4
404US	10	8	12 1/4	3 1/2	2 1/2	6 1/2	4	1/2 x 1/2 x 2 3/4
404T	10	8	12 1/4	3 1/2	2 1/2	6 1/2	7	3/4 x 3/4 x 5 1/4
404TS	10	8	12 1/4	3 1/2	2 1/2	6 1/2	4	1/2 x 1/2 x 2 3/4
405U	10	8	13 3/4	3 1/2	2 1/2	6 1/2	6 1/2	3/8 x 3/8 x 5 1/4
405US	10	8	13 3/4	3 1/2	2 1/2	6 1/2	4	1/2 x 1/2 x 2 3/4
405T	10	8	13 3/4	3 1/2	2 1/2	6 1/2	7	3/4 x 3/4 x 5 1/4
405TS	10	8	13 3/4	3 1/2	2 1/2	6 1/2	4	1/2 x 1/2 x 2 3/4
444U	11	9	14 1/2	3 1/2	2 1/2	7 1/2	8 1/2	3/4 x 3/4 x 7 1/4
444US	11	9	14 1/2	3 1/2	2 1/2	7 1/2	4	1/2 x 1/2 x 2 3/4
444T	11	9	14 1/2	3 1/2	3 1/2	7 1/2	8 1/2	7/8 x 7/8 x 6 1/4
444TS	11	9	14 1/2	3 1/2	2 1/2	7 1/2	4 1/2	3/8 x 3/8 x 3
445U	11	9	16 1/2	3 1/2	2 1/2	7 1/2	8 3/8	3/4 x 3/4 x 7 1/4
445US	11	9	16 1/2	3 1/2	2 1/2	7 1/2	4	1/2 x 1/2 x 2 3/4
445T	11	9	16 1/2	3 1/2	3 1/2	7 1/2	8 1/2	7/8 x 7/8 x 6 1/4
445TS	11	9	16 1/2	3 1/2	2 1/2	7 1/2	4 1/2	3/8 x 3/8 x 3



Shaded area indicates typical single phase standard squirrel-cage, open type, a-c motors. Balance of table same except three phase, design A and B.

▲ When these motors are used with V-belt or chain drives, the correct frame size is the one with the suffix "S" omitted — consult manufacturer.

Shaft Selection

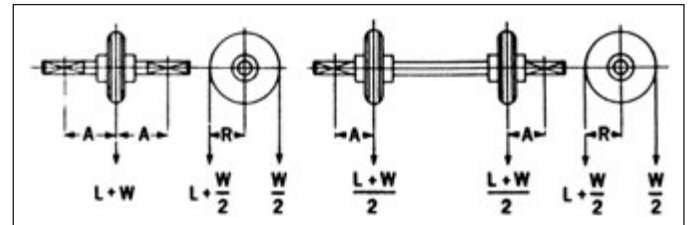
Important factors to consider when calculating shaft size

- shafting is subject to a **bending moment** and a **torsional moment**.
- bending moment is that force which tends to **bend** a shaft.
- torsional moment is that force which tends to **twist** a shaft.
- shaft size is determined by the **combined action** of the bending and torsional moments.

Refer to Shaft Selection Charts 2 and 3 developed by the American Society of Mechanical Engineers to simplify selection. The charts should be used in conjunction with Service Factors (Table 1) to modify the selection for conditions under which the shaft will operate.

A = Shaft length from center of bearing to center of load

- L = Unbalanced load in pounds
 W = Suspended weight of elevator (chain, buckets, etc.) in pounds
 R = Radius of wheel in inches
 B = Bending moment
 T = Torsional moment
 $B = A \frac{L + W}{2}$ inch pounds
 $T = R \times L$ inch pounds



Selection Procedure

- compute the Bending Moment from the above formula.
- determine the Service Factor for bending that will suit conditions from Table 1.
- compute the Torsional Moment from the above formula.
- determine the Service Factor for torsion that will suit conditions from Table 1.
- draw a horizontal line across Selection Chart 2 or 3 on pages M-10 and M-11, from the point where the **torsional moment intersects** its selected Service Factor line.
- draw a vertical line up Selection Chart 2 or 3 from the point where the **bending moment intersects** its selected factor line.
- intersection of above lines will give required shaft size.
- for shafts not weakened by keyways, multiply the shaft size obtained by .91 for the corrected shaft size. See note at the bottom of Selection Chart 3.

Horsepower required may be computed directly from the righthand side of Selection Charts by correcting the figure in line with the horizontal torsional moment line by the speed in RPM.

Table 1 • Service Factors

Type of Loading	Service Factor	
	For Bending	For Torsion
Stationary Shafts –		
Gradually applied loads	1.0	1.0
Suddenly applied loads	1.5 to 2.0	1.5 to 2.0
Rotating Shafts –		
Gradually applied or steady loads	1.5	1.0
Suddenly applied loads –		
Minor shock only	1.5 to 2.0	1.0 to 1.5
Suddenly applied loads –		
Heavy shock	2.0 to 2.5	1.5 to 2.5

Selection Example:

Select shaft size for head shaft of chain conveyor subject to following requirements:

- Torsion (inch/lbs) — 20,500
- Bending moment (inch/lbs) — 13,300
- Service Factors:
 - torsion — 1.0
 - bending — 1.5

At the extreme left on Selection Chart 2, the torsion moment may be found for the Service Factor of 1.0. Draw a horizontal line to the right from the 20,500 point. The bending moment is given at the bottom of the chart. Find the 13,300 point; draw a line from this point to the right on the diagonal until it intersects the 1.5 Service Factor line, then project the line upward vertically until it intersects the horizontal line drawn from the 20,500 torsion point. At this intersection point, it is found that a shaft of approximately $2^{13/16}$ " diameter is required.

Select the nearest standard size shaft which is $2^{15/16}$ ".

For a shaft subjected to the same conditions, but not weakened by keyways, the size of the shaft required would be $(.91 \times 2.8125)$ or 2.56 ($2^{9/16}$ "). See note at the bottom of the charts.

On this same chart at the right, the horsepower ratings at 100 RPM are given based on the formula:

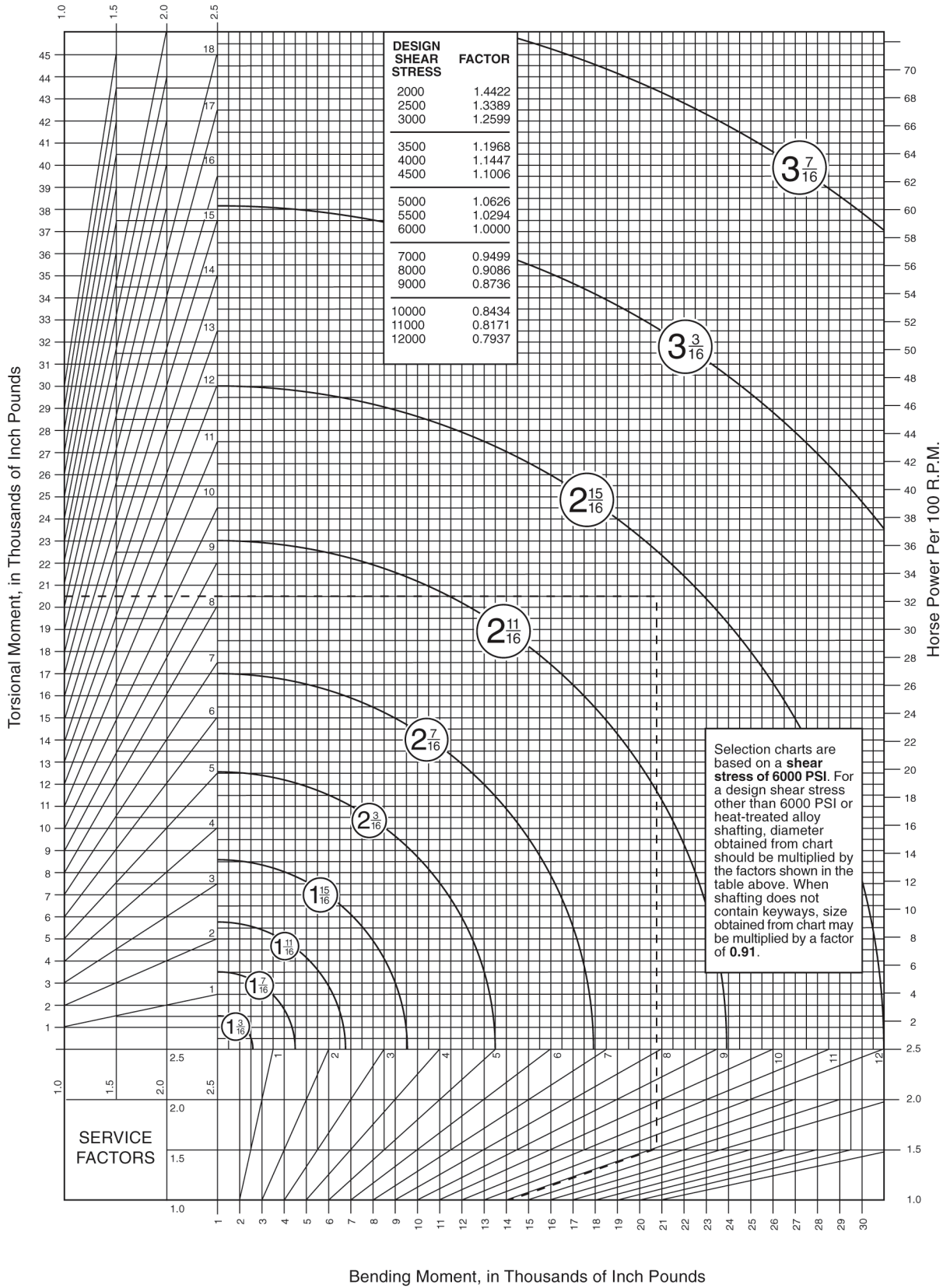
$$HP = \frac{TS}{63,000}$$

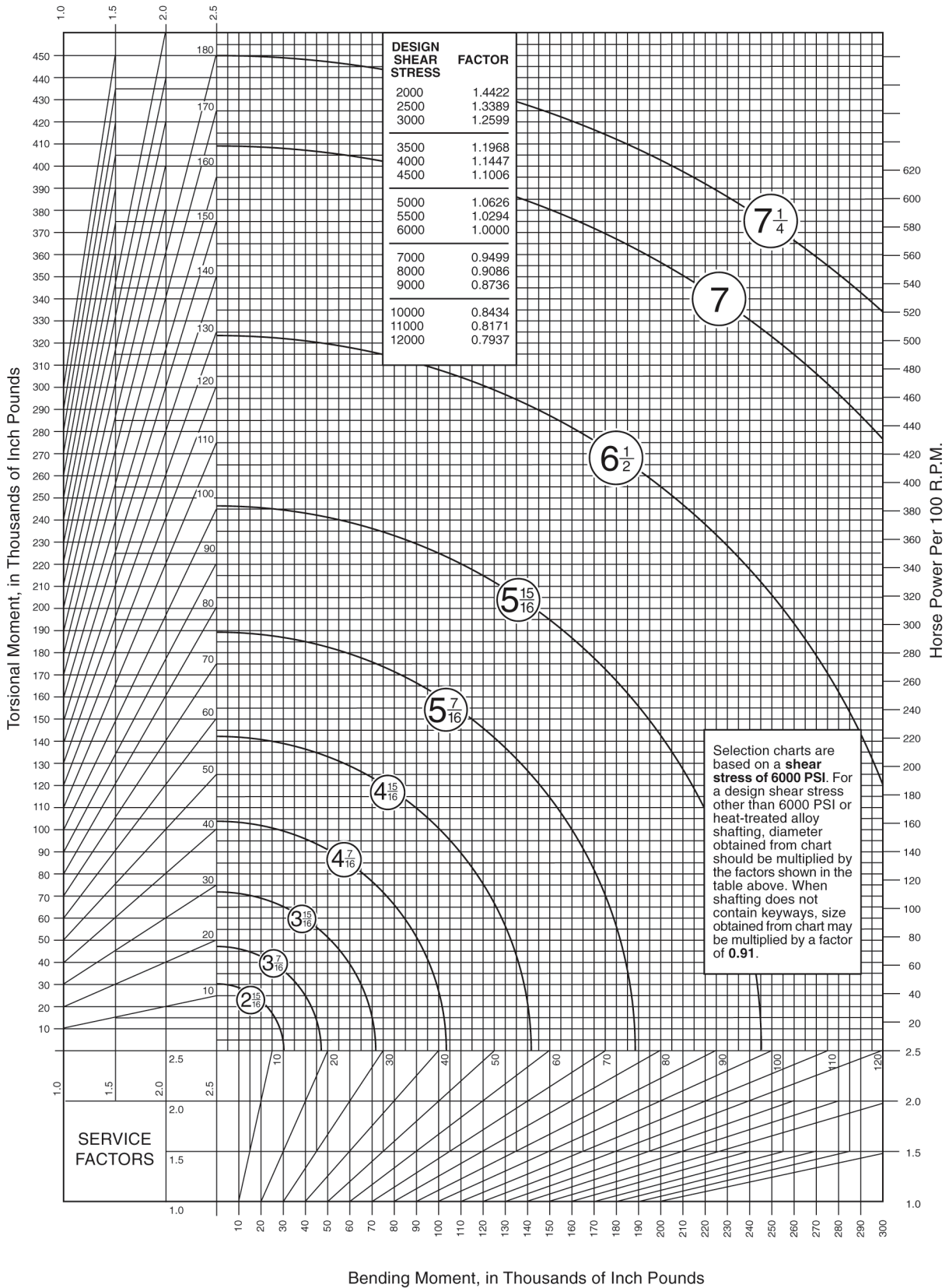
T = Torque in inch-pounds

S = Speed in RPM

The horsepower is directly proportional to the speed of the shaft in RPM.

Shaft Tables





Flywheel Formulas



Flywheels are occasionally used on a few machines, such as air compressors, to even out load pulsations. These formulas are useful in designing entire flywheel rims. It is also possible to use V-Belt sheaves as a flywheel thus eliminating the need for a separate flywheel in the system. Consult *Martin* with specific requirements.

Formulas for Entire Flywheel

W = weight (pounds)
 R = radius of gyration (feet)
 N = speed (RPM)
 t = time to change from N₁ to N₂ (seconds)
 F = face of rim (inches)
 D = outside diameter of rim (inches)
 d = inside diameter of rim (inches)
 P = weight per cubic inch of material (pounds)

where N₂ = final RPM and N₁ = initial RPM
 Velocity at outside diameter (feet per minute) = 0.2618 ND

*WR² = flywheel effect (pounds × feet²). See table below for WR² of rims. Ordinarily the WR² of the rim only is considered. In unusual instances the relatively small WR² values of the hub and arms or web can be added directly to the WR² of the rim if desired. To find the WR² of a hub or web use the WR² formula for rims, substituting the hub or web outside diameter, inside diameter, and width for D, d, and F respectively. When arms are used instead of a web an approximate WR² value of the arms is the total weight of the arms in pounds times the square of the radius in feet from the shaft center line to the mid-point of the arms between hub and rim.

Kinetic energy of rotation of a flywheel (foot pounds) = .0001705 N₂(WR²)^{*}.

Torque to accelerate or decelerate a flywheel uniformly =
$$\frac{.03908(N_2 - N_1)(WR^2)^*}{t}$$
 (pound inches)

Formulas for Flywheel Rims

Property	Cast Iron Rim (Based on .26 lbs per cubic inch)	Steel Rim Rim (Based on .283 lbs per cubic inch)	Rim of any Material (Weighing P Pounds per cubic inch)
Volume (Cubic Inches)	.7854F(D ² - d ²)	.7854F(D ² - d ²)	.7854F(D ² - d ²)
W Weight (Pounds)	.2042F(D ² - d ²)	.2223F(D ² - d ²)	.7854FP(D ² - d ²)
R Radius of Gyration (Feet)	$\sqrt{\frac{.8681(D^2 + d^2)}{1000}}$	$\sqrt{\frac{.8681(D^2 + d^2)}{1000}}$	$\sqrt{\frac{.8681(D^2 + d^2)}{1000}}$
WR ² Wt. × Sq. of Radius of Gyration (Lbs. × Ft. ²)	$\frac{.1773F(D^2 - d^2)}{1000}$	$\frac{.1929F(D^2 - d^2)}{1000}$	$\frac{.6818FP(D^2 - d^2)}{1000}$
Ts Tensile Load in Rim (Lbs.)	$\frac{.3078FN_2(D^2 - d^2)}{1,000,000}$	$\frac{.3350FN_2(D^2 - d^2)}{1,000,000}$	$\frac{1.184PFN_2(D^2 - d^2)}{1,000,000}$

▲ Centrifugal force causes this tensile load at each and every section of the rim. Thus on rims split into two or more sections, the fastening at each joint should be designed to take the full load as calculated from the formula below.

Centrifugal Force

R = Distance from the axis of rotation to the center of gravity of the body (feet)

N = Revolutions per minute (RPM)

v = Velocity of the center of gravity of the body (feet per second)

g = Acceleration due to gravity (32.16 commonly)

$$F = \frac{Wv^2}{gR} = \frac{WRN^2}{2933} = .000341 WRN^2$$

F = Centrifugal force tending to move the body outward from the axis of rotation (pounds)

W = Weight of body (pounds)



Weights of Steel

NOTE: The steel weights in this section are nominal and are based on an approximate weight of 40.80 pounds per square foot, one inch thick. There may be differences between nominal weights and actual scale weights because of variation in manufacturing practices.

Hot Rolled and Cold Finished Steel Products Nominal Weight

Product	Thickness	Width	Length	Formulas		Thickness	Diameter		
Plates, Strip and Flats	Inches	Inches	Inches	$.2833 \times T \times W \times L$	Plate Circles	Inches	Inches	$.2225 \times T \times D^2$	
	Inches	Inches	Feet	$3.4 \times T \times W \times L$		Inches	Feet	$32.05 \times T \times D^2$	
	Inches	Feet	Feet	$40.8 \times T \times W \times L$	Sheet Circles	Inches	Inches	$.228 \times T \times D^2$	
	USS. Ga No.	Feet	Feet	$Wt./Sq. Ft. \times W \times L$		Inches	Feet	$32.85 \times T \times D^2$	
	Wt. per Sq. Ft.	Feet	Feet	$Wt./Sq. Ft. \times W \times L$		Diameter	Length		
Hot and C.R. Sheets	Inches	Inches	Inches	$.2904 \times T \times W \times L$	Bars	Square Round Hexagon Octagon	Inches	Feet	$3.4 \times D^2 \times L$
	Inches	Inches	Feet	$3.485 \times T \times W \times L$			Inches	Feet	$2.67 \times D^2 \times L$
	Inches	Feet	Feet	$41.82 \times T \times W \times L$			Inches	Feet	$2.945 \times D^2 \times L$
	USS. Ga No.	Feet	Feet	$Wt./Sq. Ft. \times W \times L$			Inches	Feet	$2.817 \times D^2 \times L$
	Wt. per Sq. Ft.	Feet	Feet	$Wt./Sq. Ft. \times W \times L$			T = thickness	L = length	W = width	D = diameter

Steel Rounds

Size in Inches	Pounds Per Foot	Size in Inches	Pounds Per Foot
3/8	2.04	2 1/16	23.04
1/2	2.35	3	24.03
5/8	2.67	3 1/16	25.05
3/4	3.01	3 1/8	26.08
7/8	3.38	3 3/16	27.13
1	3.77	3 1/4	28.20
1 1/16	4.17	3 5/16	29.30
1 1/8	4.60	3 3/8	30.42
1 1/4	5.05	3 1/2	31.55
1 1/2	5.52	3 5/8	32.71
1 3/4	6.01	3 3/4	33.89
2	6.52	3 7/8	35.09
2 1/8	7.05	3 7/8	36.31
2 1/4	7.60	3 7/8	37.55
2 1/2	8.18	3 7/8	38.81
2 3/4	8.77	3 7/8	40.10
3	9.39	3 7/8	41.40
3 1/8	10.02	4	42.73
3 1/4	10.68	4 1/16	44.07
3 1/2	11.36	4 1/8	45.44
3 3/4	12.06	4 1/4	46.83
4	12.78	4 1/2	48.23
4 1/8	13.52	4 3/4	49.66
4 1/4	14.28	4 3/4	51.11
4 1/2	15.06	4 3/4	52.58
4 3/4	15.87	4 3/4	54.08
5	16.69	4 3/4	55.59
5 1/8	17.53	4 3/4	57.12
5 1/4	18.40	4 3/4	58.68
5 1/2	19.29	4 3/4	60.25
5 3/4	20.19	4 3/4	61.85
6	21.12	4 3/4	63.46
6 1/8	22.07	4 3/4	65.10

Standard Sheet Weights

Ga. Number	Thickness in Inches	Weight Per Square Foot in Pounds
Over 3/16" are plates		
7	.1793	7.500
8	.1644	6.875
9	.1494	6.250
10	.1345	5.625
11	.1196	5.000
12	.1046	4.375
13	.0897	3.750
14	.0747	3.125
15	.0673	2.812
16	.0598	2.500

Carbon Steel Plates

Size in Inches	Weight Per Square Foot in Pounds
3/16	7.76
1/4	10.20
5/16	12.75
3/8	15.30
7/16	17.85
1/2	20.40
9/16	22.95
5/8	25.50
3/4	30.60
7/8	33.15
1	35.70
1 1/8	40.80
1 1/4	45.90
1 1/2	51.00
1 3/4	56.10
2	61.20

NOTE: Stainless Steel weighs approximately 10% more than Carbon Steel.

Properties of Steel

The information shown below is offered as a general guide to physical properties of steel in common use. Lower tensile properties are to be expected in large sections; the values of strength decrease as the size of the section increases. These values are not guaranteed and must **NOT** be used in specifying the raw materials or as a basis for acceptance or rejection of material. It must not be assumed that these properties will be obtained in all cases as they vary widely with permissible variations in analysis, size of section, rolling conditions, grain size, and methods of heat treatment. Dependable physical properties can only be obtained through carefully controlled analysis and heat treatment.

Average Properties of Standard Steels

AISI Number	SAE Number	Condition of Steel	Strength in 1000 PSI		% Elong. in 2'	% Red. of Area	Hardness		Machinability % of B1112 CD
			Tensile	Yield			Brinell	Rockwell	
B1112	1112	COLD DRAWN BESSEMER	75-90	60-70	12-16	40-50	170-185	80-95B	100
C1018	1018	NATURAL HOT ROLLED	55-70	40-50	25-35	50-65	120-140	.....	55
		COLD DRAWN	70-85	50-70	18-25	45-55	160-180	80-90B	65
		1" RD. CARBURIZED AT 1700°F, COOLED IN BOX, REHEATED, QUENCHED – CORE PROPERTIES	90-100	60-80	10-22	35-50	200-230	93-98B	.....
C1020	1020	NATURAL HOT ROLLED	60-80	40-50	25-35	50-65	120-145	60-98B	50
		COLD DRAWN	70-80	45-70	15-25	45-60	120-160	70-85B	60
C1117	1117	NATURAL HOT ROLLED	60-70	37-47	20-30	45-60	135-150	.....	80
		COLD DRAWN	80-90	60-75	15-20	40-50	160-190	80-90B	90
		1" RD. CARBURIZED AT 1700°F, COOLED IN BOX, REHEATED, QUENCHED – CORE PROPERTIES	95-110	60-85	10-25	35-50	210-240	15-22C	.....
C1035	1035	NATURAL HOT ROLLED	75-85	40-55	18-25	40-55	155-175	.....	60
		COLD DRAWN	85-95	65-80	15-25	40-50	170-200	85-95B	65
		1" RD. QUENCHED, TEMPERED 1000°F	95-105	70-80	20-25	55-60	195-220	93-98B	55
C1040	1040	NATURAL HOT ROLLED	80-90	45-55	18-25	35-50	165-185	.....	60
		COLD DRAWN	90-100	70-85	14-20	35-50	190-215	91-98B	62
		1" RD. QUENCHED, TEMPERED 1000°F	100-110	75-85	15-25	45-60	210-240	17-23C	52
C1042	1042	NATURAL HOT ROLLED	85-95	50-60	15-25	35-50	175-205	.....	58
		COLD DRAWN	90-105	75-90	12-20	30-45	185-215	.....	60
		1" RD. QUENCHED, TEMPERED 1000°F	105-120	80-90	15-25	40-60	215-250	.....	.....
C1045	1045	NATURAL HOT ROLLED	85-105	50-65	15-25	35-45	175-215	.....	55
		COLD DRAWN	90-110	75-90	12-20	30-45	195-230	95-99B	58
		1" RD. QUENCHED, TEMPERED 1000°F	110-130	80-95	12-25	40-55	235-260	22-26C	47
C1141	1141	NATURAL HOT ROLLED	90-110	60-80	15-25	25-45	180-220	.....	65
		COLD DRAWN	100-120	85-105	8-18	20-50	195-230	.....	70
		1" RD. QUENCHED, TEMPERED 1000°F	120-145	100-130	10-20	35-50	270-310	.....	.....
C1144	1144	NATURAL HOT ROLLED	95-110	60-85	15-25	30-45	200-240	.....	75
		COLD DRAWN	100-120	90-115	7-17	20-45	210-245	17-23C	85
		1" RD. QUENCHED, TEMPERED 1000°F	130-150	110-130	15	45	286-302	29-31C	.....
C1050	1050	NATURAL HOT ROLLED	95-110	55-70	15-20	25-40	210-325	.....	50
		1" RD. QUENCHED, TEMPERED 1000°F	115-135	85-100	10-22	35-50	240-265	23-27C	.....
4140	4140	HOT ROLLED, ANNEALED	90-100	60-70	20-30	50-60	185-210	91-95B	55
		COLD DRAWN, ANNEALED	110-120	85-95	15-25	45-55	230-250	20-25C	65
		HEAT TREATED, COLD DRAWN	140-155	125-140	12-20	45-55	270-300	26-30C	45
		1" RD. QUENCHED, TEMPERED 1000°F	150-160	130-140	15-20	50-60	320-350	34-37C	.....
		2" RD. QUENCHED, TEMPERED 1000°F	145-155	125-135	15-20	50-60	320-345	33-36C	.....
		3" RD. QUENCHED, TEMPERED 1000°F	130-145	115-125	15-20	55-65	280-310	28-32C	.....
E52100	52100	HOT ROLLED, ANNEALED	100-110	75-85	20-25	50-60	210-235	.....	45
		1" RD. QUENCHED, TEMPERED 1000°F	180-195	65-80	10-15	35-45	375-415	40-43C	.....
8620	8620	NATURAL HOT ROLLED	90-95	55-65	18-25	45-60	160-200	85-95B	55
		COLD DRAWN	90-105	65-80	15-25	40-50	185-215	90-96B	60-70
		1" RD. CARBURIZED 1700°F, COOLED IN BOX, REHEATED, QUENCHED – CORE PROPERTIES	120-135	90-110	15-20	40-50	285-350	28-40C	.....
8645	8645	NATURAL HOT ROLLED	105-125	55-75	15-25	35-50	220-270	20-28C	48-55
		HOT ROLLED, ANNEALED	100-110	50-60	20-25	40-55	210-230	17-21C	54
		2" RD. QUENCHED, TEMPERED 1000°F	140-150	110-125	15-20	45-55	300-320	30-34C	.....
		3" RD. QUENCHED, TEMPERED 1000°F	130-140	105-115	15-20	50-60	285-310	29-32C	.....
8742	8742	NATURAL HOT ROLLED	110-125	50-70	15-25	35-50	230-270	22-28C	45-50
		COLD DRAWN, ANNEALED	105-120	95-105	10-18	35-45	210-235	95-99B	60
		1" RD. QUENCHED, TEMPERED 1000°F	155-165	135-145	15-20	45-52	330-335	35-38C	.....
		2" RD. QUENCHED, TEMPERED 1000°F	135-145	110-120	15-20	50-60	290-320	30-33C	.....

Physical Properties of Various Metals

Metals and Alloys	Stress in Thousands of Pounds per Square Inch				Modulus of Elasticity 1,000,000 Lbs.	Elongation %
	Tension Ultimate	Tension Yield Point	Compression Ultimate	Shear Ultimate		
ALUMINUM, TYPE 3003-0, ANNEALED	16	6	.....	11	10	40
ALUMINUM, TYPE 3003-H18, HARD	29	27	.....	16	10	10
ALUMINUM, TYPE 5052-0, ANNEALED	28	13	.....	18	10.2	30
ALUMINUM, TYPE 5052-H38, HARD	42	37	.....	24	10.2	8
ALUMINUM, TYPE 5056-0, ANNEALED	42	22	.....	26	10.3	35
ALUMINUM, TYPE 2014-0, ANNEALED	27	14	.....	18	10.6	18
ALUMINUM, TYPE 2014-T4, HEAT TREATED	62	42	.....	38	10.6	20
ALUMINUM, TYPE C4A, CASTING, SOLUTION HEAT TREAT	32	16	16▲	24	.....	8.5
ALUMINUM, TYPE S5C, AS DIE CAST	30	16	16▲	19	.....	9
BRASS, ALUMINUM, ANNEALED	60	27	.....	.....	16	55
BRASS, RED, 15% ZN, ANNEALED	39	10	.....	31	17	48
BRASS, RED, 15% ZN, HARD	70	57	.....	42	17	5
BRASS, RED, LEADED, CAST, GRADE 4A	33-46	17-24	10-12▲	.....	9.1-14.8	20-35
BRASS, RED, LEADED, CAST, GRADE 4B	30-38	12-17	11-12▲	.....	.....	15-27
BRASS, YELLOW, 35% ZN, ANNEALED	46	14	.....	32	15	65
BRASS, YELLOW, 35% ZN, HARD	74	60	.....	43	15	8
BRONZE, ALUMINUM, AS CAST	67-95	27-45	.....	.....	15-18	5-35
BRONZE, COMMERCIAL, 10% ZN, ANNEALED	37†	10†	.....	28†	17	45†
BRONZE, MANGANESE, ANNEALED	65†	30†	.....	42†	15	33†
BRONZE, PHOSPHOR, ANNEALED	40-66	14-24	.....	.....	16-17	48-70
BRONZE, TIN, HIGH LEADED, CAST	23-38	11-22	12-16▲	.....	8.5-13	7-20
BRONZE, TIN, LEADED, CAST	33-48	16-26	9-15▲	.....	10.6-16	15-40
COPPER, BERYLLIUM, ANNEALED	60-80†	25-35†	.....	50-60†	19	35-50†
INCONEL, CAST	65-90	.....	.....	.....	23	10-20
INCONEL, S, CAST	90-120	80-100	.....	.....	25	1-3
IRON, CAST, CLASS 30	30-34	.....	115	44	15	.....
IRON, CAST, CLASS 35	35-40	.....	125	43	16	.....
IRON, MALLEABLE, CLASS 32510	50	33	90	46	25	10-18
IRON, MALLEABLE, CLASS 35018	55	37	90	51	25	18-25
IRON, NODULAR (DUCTILE) CLASS 60-45-10	60	45	120	.....	22-25	10-25
IRON, NODULAR (DUCTILE) CLASS 80-60-3	80	60	160	.....	22-25	3-10
IRON, PEARLITIC, MALLEABLE	60-90	40-70	.....	.....	28	3-12
IRON, WROUGHT, HOT ROLLED	34-47	23-24	.....	.....	29	7-35
LEAD, HARD, ROLLED	4.0-4.6	.....	.....	.....	.....	31-48
MONEL, CAST	65-90	32-45	.....	.....	23	20-50
MONEL, S, CAST	120-145	80-130	.....	.....	24.2	1-4
MONEL, SHAPES, PLATE, ETC., ANNEALED	70-85†	25-45†	.....	.....	26	35-50†
NICKEL, CAST	50-65	15-30	.....	.....	21.5	15-30
NICKEL, SILVER, ANNEALED	49-63†	18-30†	.....	.....	17-18	35-60†
STEEL, CAST CARBON, CLASS 70,000 NORMALIZED	70	38	.....	.....	30	28
STEEL, CAST LOW ALLOY, CLASS 100,000, NORMALIZE & TEMPERED	100	68	.....	.....	29-30	20
STEEL, CAST LOW ALLOY, CLASS 120,000, QUENCHED AND TEMPERED	120	95	.....	.....	29-30	16
STEEL, CAST LOW ALLOY, CLASS 200,000, QUENCHED AND TEMPERED	200	170	.....	.....	29-30	5
STEEL, SHEETS	48	25	.....	.....	29-30	18-27
STEEL, STAINLESS, AUSTENITIC, TYPES 304, 316	85	35	.....	.....	28	55-60
STEEL, STAINLESS, MARTENSITIC, TYPE 416	75	40	.....	.....	29	30
STEEL, STRUCTURAL, BRIDGE AND BUILDING, ASTM A7	60-72	33	33▲	45-54	29-30	21
STEEL, STRUCTURAL, HIGH STRENGTH, LOW ALLOY, ASTM A242	63-72	42-50	42-50▲	47-53	29-30	18-24
ZINC, DIE CAST ALLOY, XXIII	41	.....	60▲	31	.....	10

† When hardened, strength values are higher, elongation less.

▲ Compression yield point.

Hardness Conversion Chart



Brinell, Rockwell, and Scleroscope Hardness Numbers with Corresponding Tensile Strength

Brinell 10 MM Ball 3000 Kg.	Rockwell "C" 120 Cone 150 Kg.	Scleroscope Shore Model C	Tensile Strength 1000 Pound Per Square Inch
745	68	100	368
712	66	95	352
682	64	91	337
653	62	87	324
627	60	84	311
601	58	81	298
578	57	78	287
555	55	75	276
534	53	72	266
514	52	70	256
495	50	67	247
477	49	65	238
461	47	63	229
444	46	61	220
429	45	59	212
415	44	57	204
401	42	55	196
388	41	54	189
375	40	52	182
362	38	51	176
351	37	49	170
341	36	48	165
331	35	46	160
321	34	45	155
311	33	44	150
302	32	43	146
293	31	42	142
285	30	40	138
277	29	39	134
269	28	38	131
262	26	37	128
255	25	37	125
248	24	36	122
241	23	35	119
235	22	34	116
229	21	33	113
223	20	32	110
	Rockwell "B" 1/16" Ball 100 Kg.		
217	97	31	107
212	96	31	104
207	95	30	101
202	94	30	99
197	93	29	97
192	92	28	95
187	91	28	93
183	90	27	91
179	89	27	89
174	88	26	87



Decimal Equivalent Table

Decimal and Millimeter Equivalents of Fractions

Inches			Inches			Inches		
Fractions	Decimals	Millimeters	Fractions	Decimals	Millimeters	Fractions	Decimals	Millimeters
1/64.....	.015625	.397	1 1/32.....	.34375	8.731	1 1/16.....	.6875	17.463
1/32.....	.03125	.794	23/64.....	.359375	9.128	45/64.....	.703125	17.859
3/64.....	.406875	1.191	1/8.....	.375	9.525	23/32.....	.71875	18.256
1/16.....	.0625	1.588	29/64.....	.390625	9.922	47/64.....	.734375	18.653
5/64.....	.078125	1.984	19/32.....	.40625	10.319	3/4.....	.750	19.050
3/32.....	.09375	2.381	27/64.....	.421875	10.716	49/64.....	.765625	19.447
7/64.....	.109375	2.778	1/16.....	.4375	11.113	29/32.....	.78125	19.844
1/8.....	.125	3.175	29/64.....	.453125	11.509	51/64.....	.796875	20.241
9/64.....	.140625	3.572	15/32.....	.46875	11.906	19/16.....	.8125	20.638
5/32.....	.15625	3.969	31/64.....	.484375	12.303	53/64.....	.828125	21.034
11/64.....	.171875	4.366	1/2.....	.500	12.700	27/32.....	.84375	21.431
13/64.....	.1875	4.763	33/64.....	.515625	13.097	55/64.....	.859375	21.828
3/16.....	.203125	5.159	17/32.....	.53125	13.494	7/8.....	.875	22.225
7/32.....	.21875	5.556	35/64.....	.546875	13.891	57/64.....	.890625	22.622
15/64.....	.234375	5.953	1/16.....	.5625	14.288	29/32.....	.90625	23.019
1/4.....	.250	6.350	37/64.....	.578125	14.684	59/64.....	.921875	23.416
17/64.....	.265625	6.747	19/32.....	.59375	15.081	15/16.....	.9375	23.813
9/32.....	.28125	7.144	39/64.....	.609375	15.478	61/64.....	.953125	24.209
19/64.....	.296875	7.541	1/8.....	.625	15.875	31/32.....	.96875	24.606
5/16.....	.3125	7.938	41/64.....	.640625	16.272	63/64.....	.984375	25.003
21/64.....	.328125	8.334	21/32.....	.65625	16.669	1.....	1.000	25.400
			43/64.....	.671875	17.066			

Decimal Equivalents of Millimeters

MM	Inches	MM	Inches	MM	Inches	MM	Inches	MM	Inches	MM	Inches	MM	Inches	MM	Inches
0.1	.00394	9.5	0.37401	22.5	0.88582	35.5	1.39763	48.5	1.90944	61.5	2.42125	74.5	2.93306	87.5	3.44487
0.2	.00787	10.0	0.39370	23.0	0.90551	36.0	1.41732	49.0	1.92913	62.0	2.44094	75.0	2.95275	88.0	3.46456
0.3	.01181	10.5	0.41338	23.5	0.92519	36.5	1.43700	49.5	1.94881	62.5	2.46062	75.5	2.97243	88.5	3.48424
0.4	.01575	11.0	0.43307	24.0	0.94488	37.0	1.45669	50.0	1.96850	63.0	2.48031	76.0	2.99212	89.0	3.50393
0.5	.01968	11.5	0.45275	24.5	0.96456	37.5	1.47637	50.5	1.98818	63.5	2.49999	76.5	3.01180	89.5	3.52361
0.6	.02362	12.0	0.47244	25.0	0.98425	38.0	1.49606	51.0	2.00787	64.0	2.51968	77.0	3.03149	90.0	3.54330
0.7	.02756	12.5	0.49212	25.5	1.00393	38.5	1.51574	51.5	2.02755	64.5	2.53936	77.5	3.05117	90.5	3.56298
0.8	.03149	13.0	0.51181	26.0	1.02362	39.0	1.53543	52.0	2.04724	65.0	2.55905	78.0	3.07086	91.0	3.58267
0.9	.03543	13.5	0.53149	26.5	1.04330	39.5	1.55511	52.5	2.06692	65.5	2.57873	78.5	3.09054	91.5	3.60235
1.0	.03937	14.0	0.55118	27.0	1.06299	40.0	1.57480	53.0	2.08661	66.0	2.59842	79.0	3.11023	92.0	3.62204
1.5	.05905	14.5	0.57086	27.5	1.08267	40.5	1.59448	53.5	2.10629	66.5	2.61810	79.5	3.12991	92.5	3.64172
2.0	.07874	15.0	0.59055	28.0	1.10236	41.0	1.61417	54.0	2.12598	67.0	2.63779	80.0	3.14960	93.0	3.66141
2.5	.09842	15.5	0.61023	28.5	1.12204	41.5	1.63385	54.5	2.14566	67.5	2.65747	80.5	3.16928	93.5	3.68109
3.0	.11811	16.0	0.62992	29.0	1.14173	42.0	1.65354	55.0	2.16535	68.0	2.67716	81.0	3.18897	94.0	3.70078
3.5	.13779	16.5	0.64960	29.5	1.16141	42.5	1.67322	55.5	2.18503	68.5	2.69684	81.5	3.20865	94.5	3.72046
4.0	.15748	17.0	0.66929	30.0	1.18110	43.0	1.69291	56.0	2.20472	69.0	2.71653	82.0	3.22834	95.0	3.74015
4.5	.17716	17.5	0.68897	30.5	1.20078	43.5	1.71259	56.5	2.22440	69.5	2.73621	82.5	3.24802	95.5	3.75983
5.0	.19685	18.0	0.70866	31.0	1.22047	44.0	1.73228	57.0	2.24409	70.0	2.75590	83.0	3.26771	96.0	3.77952
5.5	.21653	18.5	0.72834	31.5	1.24015	44.5	1.75196	57.5	2.26377	70.5	2.77558	83.5	3.28739	96.5	3.79920
6.0	.23622	19.0	0.74803	32.0	1.25984	45.0	1.77165	58.0	2.28346	71.0	2.79527	84.0	3.30708	97.0	3.81889
6.5	.25590	19.5	0.76771	32.5	1.27952	45.5	1.79133	58.5	2.30314	71.5	2.81495	84.5	3.32676	97.5	3.83857
7.0	.27559	20.0	0.78740	33.0	1.29921	46.0	1.81102	59.0	2.32283	72.0	2.83464	85.0	3.34645	98.0	3.85826
7.5	.29527	20.5	0.80708	33.5	1.31889	46.5	1.83070	59.5	2.34251	72.5	2.85432	85.5	3.36613	98.5	3.87794
8.0	.31496	21.0	0.82677	34.0	1.33858	47.0	1.85039	60.0	2.36220	73.0	2.87401	86.0	3.38682	99.0	3.89763
8.5	.34464	21.5	0.84645	34.5	1.35826	47.5	1.87007	60.5	2.38188	73.5	2.89369	86.5	3.40550	99.5	3.91731
9.0	.35433	22.0	0.86614	35.0	1.37795	48.0	1.88976	61.0	2.40157	74.0	2.91338	87.0	3.42519	100.0	3.93700

English Metric System Equivalents



Length Equivalents

Unit	Millimeters	Centimeters	Inches	Feet	Yards	Meters
1 MILLIMETER =	1	.1	.03937	.003281	.001094	.001
1 CENTIMETER =	10	1	.3937	.032808	.010936	.01
1 INCH =	25.4001	2.54001	1	.083333	.027778	.025400
1 FOOT =	304.801	30.4801	12	1	.333333	.304801
1 YARD =	914.402	91.4402	36	3	1	.914402
1 METER =	1000	100	39.37	3.28083	1.09361	1
Unit	Feet	Yards	Meters	Rods	Furlongs	Miles (Statute)
1 ROD =	16.5	5.5	5.02921	1	.025 (1/40)	.003125 (1/320)
1 FURLONG =	660	220	201.168	40	1	.125 (1/8)
1 KILOMETER =	3280.8	1093.6	1000	199	4.971	.62137
1 MILE (STATUTE) =	5280	1760	1609.35	320	8	1

1 NAUTICAL MILE = 6080.2 FEET = 1.15155 STATUTE MILES = 1/2 LEAGUE.
1 LIGHT YEAR = 5.879 TRILLION MILES = 9.46 TRILLION KILOMETERS.

Weight Equivalents

Unit	Grains	Grams	Ounces (Troy)	Ounces (Avoir.)	Pounds (Troy)	Pounds (Avoir.)	Kilograms
1 GRAIN =	1	.064799	.002083	.002286	.000174	.000143	.000065
1 GRAM =	15.4324	1	.032151	.035274	.002679	.002205	.001
1 OUNCE (TROY) =	480	31.1035	1	1.09714	.083333	.068571	.031104
1 OUNCE (AVOIR.) =	437.5	28.3495	.911458	1	.075955	.0625	.028350
1 POUND (TROY) =	5760	373.242	12	13.1657	1	.822857	.373242
1 POUND (AVOIR.) =	7000	453.592	14.5833	16	1.21528	1	.453592
1 KILOGRAM =	15432.4	1000	32.1507	35.2740	2.67923	2.20462	1
Unit	Kilograms	Pounds (Troy)	Pounds (Avoir.)	Metric Tons	Net (Short) Tons	Gross (Long) Tons	
1 METRIC TON =	1000	2679.23	2204.62	1	1.10231	.984206	
1 NET (SHORT) TON =	907.185	2430.56	2000	.907185	1	.892857	
1 GROSS (LONG) TON =	1016.05	2722.22	2240	1.01605	1.12	1	

Volume and Capacity Equivalents

Unit	Cubic Centimeters	Cubic Inches	Liters	Quarts (Liquid)	Quarts (Dry)	Gallons (Liquid)	Gallons (Dry)	Cubic Feet
1 CU. CENTIMETER =	1	.06102	.001	.00106	.00091	.00026	.00023	.00004
1 CU. INCH =	16.387	1	.01639	.01732	.01488	.00433	.00372	.00058
1 GILL =	118.29	7.2188	.11829	.125	.10742	.03125	.02686	.00418
1 PINT (LIQUID) =	473.18	28.875	.47318	.5	.42968	.125	.10742	.01671
1 PINT (DRY) =	550.62	33.600	.55062	.58182	.5	.14546	.125	.01945
1 LITER =	1000	61.023	1	1.0567	.90808	.26417	.22702	.03531
1 QUART (LIQUID) =	946.36	57.75	.94636	1	.85937	.25	.21484	.03342
1 QUART (DRY) =	1101.2	67.201	1.1012	1.1637	1	.29091	.25	.03889
1 GALLON (LIQUID) =	3785.4	231	3.7854	4	3.4375	1	.85937	.13368
1 GALLON (DRY) =	4404.9	268.80	4.4049	4.6546	4	1.1636	1	.15556
1 PECK =	8809.8	537.61	8.8098	9.3092	8	2.3273	2	.31111
1 CU. FOOT =	28317.0	1728	28.317	29.922	25.714	7.4805	6.4285	1
1 BUSHEL =	35239.3	2150.4	35.239	37.237	32	9.3092	8	1.2445
1 BARREL =	119241.2	7276.5	119.24	126	108.28	31.5	27.070	4.2109
1 CU. YARD =	764559.4	46656	764.56	807.90	694.28	201.97	173.57	27
1 CU. METER =	1000000	61023.4	1000	1056.7	908.08	264.17	227.02	35.314

Area Equivalents

Unit	Square Inches	Square Feet	Square Yards	Square Meters
1 SQUARE FOOT =	144	1	.1111	.09290
1 SQUARE YARD =	1296	9	1	.83613
1 SQUARE METER =	1550	10.7639	1.19599	1
1 SQUARE ROD =	39204	272.25	30.25	25.293
1 ARE =	155000	1076.39	119.599	100
1 ACRE =	6272640	43560	4840	4046.86
1 SQUARE MILE (640 ACRES) =	–	27878400	3097600	2589999
1 SQUARE KILOMETER =	–	10763867	1195985	1000000

Power Equivalents

Unit	BTU/Hour	Foot-Pound/Hour	Foot-Pound/Minute	HP	HP (Metric)	Watt	Kilowatt
1 BTU/HR. =	1	778.1688	12.96948	.000393	.000398	.293071	.000293
1 FT.LB./HR. =	.001285	1	–	5.05×10^{-7}	5.12×10^{-7}	.0003766	3.766×10^{-7}
1 FT.LB./MIN. =	.077104	–	1	3.0303×10^{-5}	3.072×10^{-7}	.022597	2.26×10^{-5}
1 HP =	2544.43	1980000	33000	1	1.01387	745.699	.7457
1 HP MET. =	2509.622	1952914	32548.56	.986320	1	735.499	.735499
1 WATT =	3.41214	2655.224	44.2537	.0013410	.0013596	1	.001

NOTE: Foot-Pounds indicates energy.
Pound-Feet indicates torque (Page M-2).

Metric System

Length

1 meter (m)	=	{	10 decimeters(dm)
			100 centimeters(cm)
			1,000 millimeters(mm)
1 dekameter (dkm)	=		10 meters (m)
1 hectometer (hm)	=		100 meters (m)
1 kilometer (km)	=		1,000 meters (m)

Weight

1 gram (g)	=	{	10 decigrams (dg)
			100 centigrams (cg)
			1,000 milligrams (mg)
1 dekagram (dkg)	=		10 grams (g)
1 hectogram (hg)	=		100 grams (g)
1 kilogram (kg)	=		1000 grams (g)
1 metric ton	=	{	1000 kilograms (kg)
			1,000,000 grams (g)

Volume & Capacity

1 liter (l)	=	{	1 cubic decimeter(dm ³)
			10 deciliters (dl)
			100 centiliters(cl)
			1,000 milliliters (ml)
			1,000 cubic centimeters (cm ³ or cc)
1 dekaliter (dkl)	=		10 liters (l)
1 hectoliter (hl)	=		100 liters (l)
1 kiloliter (kl)	=	{	1 cubic meter (m ³)
			1 stere (s)
			1,000 liters (l)

Area

1 centare (ca)	=	{	1 square meter (m ²)
			100 square decimeters (dm ²)
			10,000 square centimeters (cm ²)
			1,000,000 square millimeters (mm ²)
1 are (a)	=	{	1 square dekameter (dkm ²)
			100 square meters (m ²)
1 hectare (ha)	=	{	100 ares (a)
			10,000 square meters (m ²)
1 square kilometer (km ²)	=		1,000,000 square meters (m ²)

Other prefixes commonly used:

micro — one millionth
deca — 10 times (same as deka)
myria — 10,000 times
mega — 1,000,000 times

Engineering Formulas and Constants

Circle

Area = Square of Diameter \times .7854
or square of Radius \times 3.1416

Circumference = Diameter \times 3.1416

Diameter = Circumference \times .3183

Doubling diameter increases area four times; tripling diameter increases area nine times, etc.

Square

Area = Square of Side

Diagonal = Side \times 1.4142

Side = Diagonal \times .7071

Square Inscribed in Circle

Side of Square = Diameter of Circle \times .7071
or Circumference of Circle \times .2251

Diameter of Circle = Side of Square \times 1.4142

Circumference of Circle = Side of Square \times 4.4429

Square and Circle with Equal Area

Side of Square = Diameter of Circle \times .8862

Diameter of Circle = Side of Square \times 1.128

Circumference of Circle = Side of Square \times 3.545

Rectangle

Area = Length \times Width

Diagonal = Square root of sum of squares of Width and Length

Triangle

Area = Base \times $\frac{1}{2}$ of Perpendicular Height

Sphere

Area of Surface = Square of Diameter \times 3.1416

Volume = Cube of Diameter \times .5236

Cube

Area of Surface = Square of Side \times 6

Volume = Cube of Side

Diagonal = Side \times 1.732

Cylinder

Area of Curved Surface = Diameter \times Length \times 3.1416

Volume = Square of Diameter \times Length \times .7854

Cone

Area of Curved Surface = Diameter of Base \times Slant Height
 \times 1.5708

Volume = Diameter of Base Squared \times Perpendicular Height
 \times .2618 or Area of Base \times $\frac{1}{3}$ Perpendicular Height

- 1 HP = 33,000 Foot-pounds of work per minute.
- 1 BTU = Heat required to raise 1 pound of water °F.
- 1 Kilowatt Hour = 3415 BTU
- 1 Radian = 57.296 degrees.
- 1 Register Ton = 100 cubic feet
- 1 U.S. Shipping Ton = 40 cubic feet
- 1 British Shipping Ton = 42 cubic feet
- 1 Cubic Foot/Minute = 471.9474 cubic cm/second
- 1 Cubic Foot/Minute = .1246753 gallons (U.S.)/second
- 1 Cubic Foot/Second = 2.2222 cubic yards/minute
- 1 Gallon (U.S.)/Minute = 8.020834 cubic feet/hour
- 1 Gallon (U.S.)/Minute = 3.785412 liter/minute
- 1 Liter/Minute = 2.118880 cubic feet/hour
- 1 Cubic Metre/Minute = 264.1720 Gallons (U.S.)/Minute
- 1 Pound/Gallon (U.S.) = 7.480519 pound/cubic feet
- 1 Mile/Hour = 88 feet/minute
- 1 Foot/Minute = .01136364 miles/hour

- 1 Pound per Square Inch Pressure (PSI) = 144 pounds/square foot = 2.3095 feet fresh water at 62°F = 2.0355 inches mercury at 32°F = 2.0416 inches mercury at 62°F = .068 atmospheres.
- Water Pressure (pounds per square inch) = .433 \times height of water in feet (Fresh water at 62°F).
- Weight of 1 cubic foot of fresh water = 62.355 pounds at 62°F = 59.76 pounds at 212°F.
- Weight of 1 gallon (U.S.) water = 8.34 pounds
- Weight of 1 cubic foot of Air at 14.7 lbs per square inch Pressure = .07608 pounds at 62°F = .08703 pounds at 32°F.
- Watts = Amperes \times Volts
- 1 Watt-Hour = 3.41214 BTU = 859.845 Calorie = 3600 Joule.
- g = Acceleration due to gravity at Sea Level, Latitude 45° = 32.1726 Feet/Second squared.
- 1 pound-foot (torque) = 1.355818 Newton-Metre.

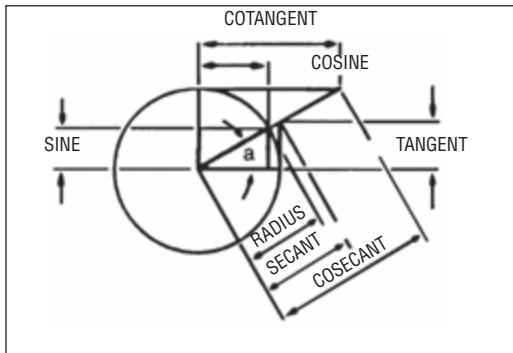


Area/Circumference Table

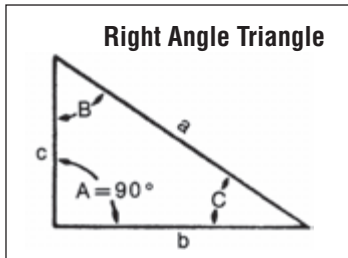
Circumferences and Areas of Circles (1 — 31 7/8 Diameters)

Diameter	Circumference	Area	Diameter	Circumference	Area	Diameter	Circumference	Area	Diameter	Circumference	Area
1	3.1416	0.7854	5 1/2	17.2788	23.758	14	43.9823	153.94	23	72.2566	415.48
1 1/16	3.3379	0.8866	5 5/16	17.4751	24.301	14 1/4	44.3750	156.70	23 1/4	72.6493	420.00
1 1/8	3.5343	0.9940	5 7/8	17.6715	24.850	14 1/2	44.7677	159.48	23 1/2	73.0420	424.56
1 1/4	3.7306	1.1075	5 9/16	17.8678	25.406	14 3/4	45.1604	162.30	23 3/4	73.4347	429.13
1 1/2	3.9270	1.2272	5 11/16	18.0642	25.967	15	45.5531	165.13	24	73.8274	433.74
1 5/8	4.1233	1.3530	5 13/16	18.2605	26.535	15 1/4	45.9458	167.99	24 1/4	74.2201	438.36
1 3/4	4.3197	1.4849	5 3/4	18.4569	27.100	15 1/2	46.3385	170.87	24 1/2	74.6128	443.01
1 7/8	4.5160	1.6230	5 7/8	18.6532	27.688	15 3/4	46.7312	173.78	24 3/4	75.0055	447.69
2	4.7124	1.7671	6	18.8496	28.274	16	47.1239	176.71	25	75.3982	452.39
2 1/16	4.9087	1.9175	6 1/16	19.2423	29.465	16 1/4	47.5166	179.67	25 1/4	75.7909	457.11
2 1/8	5.1051	2.0739	6 1/8	19.6350	30.680	16 1/2	47.9093	182.65	25 1/2	76.1836	461.86
2 1/4	5.3014	2.2365	6 1/4	20.0277	31.919	16 3/4	48.3020	185.66	25 3/4	76.5763	466.64
2 1/2	5.4978	2.4053	6 3/8	20.4204	33.183	17	48.6947	188.69	26	76.9690	471.44
2 3/8	5.6941	2.5802	6 1/2	20.8131	34.472	17 1/4	49.0874	191.75	26 1/4	77.3617	476.26
2 1/2	5.8905	2.7612	6 3/4	21.2058	35.785	17 1/2	49.4801	194.83	26 1/2	77.7544	481.11
2 5/8	6.0868	2.9483	6 7/8	21.5984	37.122	17 3/4	49.8728	197.93	26 3/4	78.1471	485.98
3	6.2832	3.1416	7	21.9911	38.485	18	50.2655	201.06	27	78.5398	490.87
3 1/16	6.4795	3.3410	7 1/16	22.3838	39.871	18 1/4	50.6582	204.22	27 1/4	78.9325	495.79
3 1/8	6.6759	3.5466	7 1/8	22.7765	41.282	18 1/2	51.0509	207.39	27 1/2	79.3252	500.74
3 1/4	6.8722	3.7583	7 1/4	23.1692	42.718	18 3/4	51.4436	210.60	27 3/4	79.7179	505.71
3 1/2	7.0686	3.9761	7 3/8	23.5619	44.179	19	51.8363	213.82	28	80.1106	510.71
3 3/8	7.2649	4.2000	7 1/2	23.9546	45.664	19 1/4	52.2290	217.08	28 1/4	80.5033	515.72
3 1/2	7.4613	4.4301	7 3/4	24.3473	47.173	19 1/2	52.6217	220.35	28 1/2	80.9060	520.77
3 5/8	7.6576	4.6664	7 7/8	24.7400	48.707	19 3/4	53.0144	223.65	28 3/4	81.2887	525.84
4	7.8540	4.9087	8	25.1327	50.265	20	53.4071	226.98	29	81.6814	530.93
4 1/16	8.0503	5.1572	8 1/16	25.5254	51.849	20 1/4	53.7998	230.33	29 1/4	82.0741	536.05
4 1/8	8.2467	5.4119	8 1/8	25.9181	53.456	20 1/2	54.1925	233.71	29 1/2	82.4668	541.19
4 1/4	8.4430	5.6727	8 1/4	26.3108	55.088	20 3/4	54.5852	237.10	29 3/4	82.8595	546.35
4 1/2	8.6394	5.9396	8 3/8	26.7035	56.745	21	54.9779	240.53	30	83.2522	551.55
4 3/8	8.8357	6.2126	8 1/2	27.0962	58.426	21 1/4	55.3706	243.98	30 1/4	83.6449	556.76
4 1/2	9.0321	6.4918	8 3/4	27.4889	60.132	21 1/2	55.7633	247.45	30 1/2	84.0376	562.00
4 5/8	9.2284	6.7771	8 7/8	27.8816	61.862	21 3/4	56.1560	250.95	30 3/4	84.4303	567.27
5	9.4248	7.0686	9	28.2743	63.617	22	56.5487	254.47	31	84.8230	572.56
5 1/16	9.6211	7.3662	9 1/16	28.6670	65.397	22 1/4	56.9414	258.02	31 1/4	85.2157	577.87
5 1/8	9.8175	7.6699	9 1/8	29.0597	67.201	22 1/2	57.3341	261.59	31 1/2	85.6084	583.21
5 1/4	10.0138	7.9798	9 1/4	29.4524	69.029	22 3/4	57.7268	265.18	31 3/4	86.0011	588.57
5 1/2	10.2102	8.2958	9 3/8	29.8451	70.882	23	58.1195	268.80	32	86.3938	593.96
5 3/8	10.4065	8.6179	9 1/2	30.2378	72.760	23 1/4	58.5122	272.45	32 1/4	86.7865	599.37
5 1/2	10.6029	8.9462	9 3/4	30.6305	74.662	23 1/2	58.9049	276.12	32 1/2	87.1792	604.81
5 5/8	10.7992	9.2806	9 7/8	31.0232	76.589	23 3/4	59.2976	279.81	32 3/4	87.5719	610.27
6	10.9956	9.6211	10	31.4159	78.540	24	59.6903	283.53	33	87.965	615.75
6 1/16	11.1919	9.9678	10 1/16	31.8086	80.516	24 1/4	60.0830	287.27	33 1/4	88.3577	621.26
6 1/8	11.3883	10.321	10 1/8	32.2013	82.516	24 1/2	60.4757	291.04	33 1/2	88.750	626.80
6 1/4	11.5846	10.680	10 1/4	32.5940	84.541	24 3/4	60.8684	294.83	33 3/4	89.143	632.36
6 1/2	11.7810	11.045	10 3/8	32.9867	86.590	25	61.2611	298.65	34	89.535	637.94
6 3/8	11.9773	11.416	10 1/2	33.3794	88.664	25 1/4	61.6538	302.49	34 1/4	89.928	643.55
6 1/2	12.1737	11.793	10 3/4	33.7721	90.763	25 1/2	62.0465	306.35	34 1/2	90.321	649.18
6 5/8	12.3700	12.177	10 7/8	34.1648	92.886	25 3/4	62.4392	310.24	34 3/4	90.713	654.84
7	12.5664	12.566	11	34.5575	95.033	26	62.8319	314.16	35	91.106	660.52
7 1/16	12.7627	12.962	11 1/16	34.9502	97.205	26 1/4	63.2246	318.10	35 1/4	91.499	666.23
7 1/8	12.9591	13.364	11 1/8	35.3429	99.402	26 1/2	63.6173	322.06	35 1/2	91.892	671.96
7 1/4	13.1554	13.772	11 1/4	35.7356	101.62	26 3/4	64.0100	326.05	35 3/4	92.284	677.71
7 1/2	13.3518	14.185	11 3/8	36.1283	103.87	27	64.4026	330.06	36	92.677	683.49
7 3/8	13.5481	14.607	11 1/2	36.5210	106.14	27 1/4	64.7953	334.10	36 1/4	93.070	689.30
7 1/2	13.7445	15.033	11 3/4	36.9137	108.43	27 1/2	65.1880	338.16	36 1/2	93.462	695.13
7 5/8	13.9408	15.466	11 7/8	37.3064	110.75	27 3/4	65.5807	342.25	36 3/4	93.855	700.98
8	14.1372	15.904	12	37.6991	113.10	28	65.9734	346.36	37	94.248	706.86
8 1/16	14.3335	16.349	12 1/16	38.0918	115.47	28 1/4	66.3661	350.50	37 1/4	94.640	712.70
8 1/8	14.5299	16.800	12 1/8	38.4845	117.86	28 1/2	66.7588	354.66	37 1/2	95.033	718.69
8 1/4	14.7262	17.257	12 1/4	38.8772	120.28	28 3/4	67.1515	358.84	37 3/4	95.426	724.64
8 1/2	14.9226	17.721	12 3/8	39.2699	122.72	29	67.5442	363.05	38	95.819	730.62
8 3/8	15.1189	18.190	12 1/2	39.6626	125.19	29 1/4	67.9369	367.28	38 1/4	96.211	736.62
8 1/2	15.3153	18.665	12 3/4	40.0553	127.68	29 1/2	68.3296	371.54	38 1/2	96.604	742.64
8 5/8	15.5116	19.147	12 7/8	40.4480	130.19	29 3/4	68.7223	375.83	38 3/4	96.997	748.69
9	15.7080	19.635	13	40.8407	132.73	30	69.1150	380.13	39	97.389	754.77
9 1/16	15.9043	20.129	13 1/16	41.2334	135.30	30 1/4	69.5077	384.46	39 1/4	97.782	760.87
9 1/8	16.1007	20.629	13 1/8	41.6261	137.89	30 1/2	69.9004	388.82	39 1/2	98.175	766.99
9 1/4	16.2970	21.135	13 1/4	42.0188	140.50	30 3/4	70.2931	393.20	39 3/4	98.567	773.14
9 1/2	16.4934	21.648	13 3/8	42.4115	143.14	31	70.6858	397.61	40	98.960	779.31
9 3/8	16.6897	22.166	13 1/2	42.8042	145.80	31 1/4	71.0785	402.04	40 1/4	99.353	785.51
9 1/2	16.8861	22.691	13 3/4	43.1969	148.49	31 1/2	71.4712	406.49	40 1/2	99.746	791.73
9 5/8	17.0824	23.221	13 7/8	43.5896	151.20	31 3/4	71.8639	410.97	40 3/4	100.138	797.98

Trigonometric Functions



Trigonometric Formulas (See pages that follow for functions)



Formulas for Finding Functions of Angles

$$\frac{\text{Side Opposite}}{\text{Hypotenuse}} = \text{Sine}$$

$$\frac{\text{Side Adjacent}}{\text{Hypotenuse}} = \text{Cosine}$$

$$\frac{\text{Side Opposite}}{\text{Side Adjacent}} = \text{Tangent}$$

$$\frac{\text{Side Adjacent}}{\text{Side Opposite}} = \text{Cotangent}$$

$$\frac{\text{Hypotenuse}}{\text{Side Adjacent}} = \text{Secant}$$

$$\frac{\text{Hypotenuse}}{\text{Side Opposite}} = \text{Cosecant}$$

Formulas for Finding Sides of Right Angle Triangles with an Angle and Side Known

To Find:
Length of side opposite

$$\left\{ \begin{array}{l} \text{Hypotenuse} \times \text{Sine} \\ \text{Hypotenuse} \div \text{Cosecant} \\ \text{Side Adjacent} \times \text{Tangent} \\ \text{Side Adjacent} \div \text{Cotangent} \end{array} \right.$$

To Find:
Length of side adjacent

$$\left\{ \begin{array}{l} \text{Hypotenuse} \times \text{Cosine} \\ \text{Hypotenuse} \div \text{Secant} \\ \text{Side Opposite} \times \text{Cotangent} \\ \text{Side Opposite} \div \text{Tangent} \end{array} \right.$$

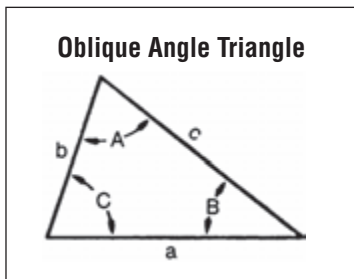
To Find:
Length of hypotenuse

$$\left\{ \begin{array}{l} \text{Side Opposite} \times \text{Cosecant} \\ \text{Side Opposite} \div \text{Sine} \\ \text{Side Adjacent} \times \text{Secant} \\ \text{Side Adjacent} \div \text{Cosine} \end{array} \right.$$

To Find Angles and Sides of Right Angle Triangles

To Find Angles		To Find Sides	
To Find:	Formulas	To Find:	Formulas
C	$\frac{c}{a} = \text{Sin. } C$	a	$\sqrt{b^2 + c^2}$
C	$\frac{b}{a} = \text{Cos. } C$	a	$c \times \text{Cosec. } C$
C	$\frac{c}{b} = \text{Tan. } C$	a	$c \times \text{Sec. } B$
C	$\frac{b}{c} = \text{Cotan. } C$	a	$b \times \text{Cosec. } B$
C	$\frac{a}{b} = \text{Sec. } C$	a	$b \times \text{Sec. } C$
C	$\frac{a}{c} = \text{Cosec. } C$	b	$\sqrt{a^2 - c^2}$
B	$\frac{b}{a} = \text{Sin. } B$	b	$a \times \text{Sin. } B$
B	$\frac{c}{a} = \text{Cos. } B$	b	$a \times \text{Cos. } C$
B	$\frac{b}{c} = \text{Tan. } B$	b	$c \times \text{Tan. } B$
B	$\frac{c}{b} = \text{Cotan. } B$	b	$c \times \text{Cot. } C$
B	$\frac{a}{c} = \text{Sec. } B$	c	$\sqrt{a^2 - b^2}$
B	$\frac{a}{b} = \text{Cosec. } B$	c	$a \times \text{Cos. } B$
		c	$a \times \text{Sin. } C$
		c	$b \times \text{Cot. } B$
		c	$b \times \text{Tan. } C$

To Find Angles and Sides of Oblique Angle Triangles



To Find	Known	Formulas	To Find	Known	Formulas
C	A, B	$180^\circ - (A + B)$	A	B, C	$180^\circ - (B + C)$
b	a, B, A	$\frac{a \times \text{Sin. } B}{\text{Sin. } A}$	Cos. A	a, b, c	$\frac{b^2 + c^2 - a^2}{2bc}$
c	a, A, C	$\frac{a \times \text{Sin. } C}{\text{Sin. } A}$	Sin. C	c, A, a	$\frac{c \times \text{Sin. } A}{a}$
Tan. A	a, C, b	$\frac{a \times \text{Sin. } C}{b - (a \times \text{Cos. } C)}$	Cot. B	a, C, b	$\frac{a \times \text{Cosec. } C}{b} - \text{Cot. } C$
B	A, C	$180^\circ - (A + C)$	c	b, C, B	$b \times \text{Sin. } C \times \text{Cosec. } B$
Sin. B	b, A, a	$\frac{b \times \text{Sin. } A}{a}$	—	—	—

Trigonometric Functions

°	'	Sine	Tan.	Cotan.	Cosine	°	'	°	'	Sine	Tan.	Cotan.	Cosine	°	'
0	0	.000000	.000000	INFINITE	1.000000	0	90	11	0	.190809	.194380	5.1445540	.981627	0	79
	10	.002909	.002909	343.77371	.999996	50			10	.913664	.197401	5.0658352	.981068	50	
	20	.005818	.005818	171.88540	.999983	40			20	.196517	.200425	4.9894027	.980500	40	
	30	.008727	.008727	114.58865	.999962	30			30	.199368	.203452	4.9315170	.979925	30	
	40	.011635	.011636	85.939791	.999932	20			40	.202218	.206483	4.8430045	.979341	20	
	50	.014544	.014545	68.750087	.999894	10			50	.205065	.209518	4.7728568	.978748	10	
1	0	.017452	.017455	57.289962	.999848	0	89	12	0	.207912	.212557	4.7046301	.978148	0	78
	10	.020361	.020365	49.103881	.999793	50			10	.210756	.215599	4.6382457	.977539	50	
	20	.023269	.023275	42.964077	.999729	40			20	.213599	.218645	4.5736287	.976921	40	
	30	.026177	.026186	38.188459	.999657	30			30	.216440	.221695	4.5107085	.976296	30	
	40	.029085	.029097	34.367771	.999577	20			40	.219279	.224748	4.4494181	.975662	20	
	50	.031992	.032009	31.241577	.999488	10			50	.222116	.227806	4.3896940	.975020	10	
2	0	.034899	.034921	28.636253	.999391	0	88	13	0	.224951	.230868	4.3314759	.974370	0	77
	10	.037806	.037834	26.431600	.999285	50			10	.227784	.233934	4.2747066	.973712	50	
	20	.040713	.040747	24.541758	.999171	40			20	.230616	.237004	4.2193318	.973045	40	
	30	.043619	.043661	22.903766	.999048	30			30	.233445	.240079	4.1652998	.972370	30	
	40	.046525	.046576	21.470401	.998917	20			40	.236273	.243158	4.1125614	.971687	20	
	50	.049431	.049491	20.205553	.998778	10			50	.239098	.246241	4.0610700	.970995	10	
3	0	.052336	.052408	19.081137	.998630	0	87	14	0	.241922	.249328	4.0107809	.970296	0	76
	10	.055241	.055325	18.074977	.998473	50			10	.244743	.252420	3.9616518	.969588	50	
	20	.058145	.058243	17.169337	.998308	40			20	.247563	.255517	3.9136420	.968872	40	
	30	.061049	.061163	16.349855	.998135	30			30	.250380	.258618	3.8667131	.968148	30	
	40	.063952	.064083	15.604784	.997957	20			40	.253195	.261723	3.8208281	.967415	20	
	50	.066854	.067004	14.924417	.997763	10			50	.256008	.264834	3.7759519	.966675	10	
4	0	.069756	.069927	14.300666	.997564	0	86	15	0	.258819	.267949	3.7320508	.965926	0	75
	10	.072658	.072851	13.726738	.997357	50			10	.261628	.271069	3.6890927	.965169	50	
	20	.075559	.075776	13.196888	.997141	40			20	.264434	.274195	3.6470467	.964404	40	
	30	.078459	.078702	12.706205	.996917	30			30	.267238	.277325	3.6058835	.963630	30	
	40	.081359	.081629	12.250505	.996685	20			40	.270040	.280460	3.5655749	.962849	20	
	50	.084258	.084558	11.826167	.996444	10			50	.272840	.283600	3.5260938	.962059	10	
5	0	.087156	.087489	11.430052	.996195	0	85	16	0	.275637	.286745	3.4874144	.961262	0	74
	10	.090053	.090421	11.059431	.995937	50			10	.278432	.289896	3.4495120	.960456	50	
	20	.092950	.093354	10.711913	.995671	40			20	.281225	.293052	3.4123626	.959642	40	
	30	.095846	.096289	10.385397	.995396	30			30	.284015	.296214	3.3759434	.958820	30	
	40	.098741	.099226	10.078031	.995113	20			40	.286803	.299380	3.3402326	.957990	20	
	50	.101635	.102164	9.7881732	.994822	10			50	.289589	.302553	3.3052091	.957151	10	
6	0	.104528	.105104	9.5143645	.994522	0	84	17	0	.292372	.305731	3.2708526	.956305	0	73
	10	.107421	.108046	9.2553035	.994214	50			10	.295152	.308914	3.2371438	.955450	50	
	20	.110313	.110990	9.0098261	.993897	40			20	.297930	.312104	3.2040638	.954588	40	
	30	.113203	.113936	8.7768874	.993572	30			30	.300706	.315299	3.1715948	.953717	30	
	40	.116093	.116883	8.5555468	.993238	20			40	.303479	.318500	3.1397194	.952838	20	
	50	.118982	.119833	8.3449558	.992896	10			50	.306249	.321707	3.1084210	.951951	10	
7	0	.121869	.122785	8.1443464	.992546	0	83	18	0	.309017	.324920	3.0776835	.951057	0	72
	10	.124756	.125738	7.9530224	.992187	50			10	.311782	.328139	3.0474915	.950154	50	
	20	.127642	.128694	7.7703506	.991820	40			20	.314545	.331364	3.0178301	.949243	40	
	30	.130526	.131653	7.5957541	.991445	30			30	.317305	.334595	2.9886850	.948324	30	
	40	.133410	.134613	7.4287064	.991061	20			40	.320062	.337833	2.9600422	.947397	20	
	50	.136292	.137576	7.2687255	.990669	10			50	.322816	.341077	2.9318885	.946462	10	
8	0	.139173	.140541	7.1153697	.990268	0	82	19	0	.325568	.344328	2.9042109	.945519	0	71
	10	.142053	.143508	6.9682335	.989859	50			10	.328317	.347585	2.8769970	.944568	50	
	20	.144932	.146478	6.8269437	.989442	40			20	.331063	.350848	2.8502349	.943609	40	
	30	.147809	.149451	6.6911562	.989016	30			30	.333807	.354119	2.8239129	.942641	30	
	40	.150686	.152426	6.5605538	.988582	20			40	.336547	.357396	2.7980198	.941666	20	
	50	.153561	.155404	6.4348428	.988139	10			50	.339285	.360680	2.7725448	.940684	10	
9	0	.156434	.158384	6.3137515	.987688	0	81	20	0	.342020	.363970	2.7474774	.939693	0	70
	10	.159307	.161368	6.1970279	.987229	50			10	.344752	.367268	2.7228076	.938694	50	
	20	.162178	.164354	6.0844381	.986762	40			20	.347481	.370573	2.6985254	.937687	40	
	30	.165048	.167343	5.9757644	.986286	30			30	.350207	.373885	2.6746215	.936672	30	
	40	.167916	.170334	5.8708042	.985801	20			40	.352931	.377204	2.6510867	.935650	20	
	50	.170783	.173329	5.7693688	.985309	10			50	.355651	.380530	2.6279121	.934619	10	
10	0	.173648	.176327	5.6712818	.984808	0	80	21	0	.358368	.383864	2.6050891	.933580	0	69
	10	.176512	.179328	5.5763786	.984298	50			10	.361082	.387205	2.5826094	.932534	50	
	20	.179375	.182332	5.4845052	.983781	40			20	.363793	.390554	2.5604649	.931480	40	
	30	.182236	.185339	5.3955172	.983255	30			30	.366501	.393911	2.5386479	.930418	30	
	40	.185095	.188359	5.3092793	.982721	20			40	.369206	.397275	2.5171507	.929348	20	
	50	.187953	.191363	5.2256647	.982178	10		79	50	.371908	.400647	2.4959661	.928270	10	68
°	'	Cosine	Cotan.	Tan.	Sine	°	'	°	'	Cosine	Cotan.	Tan.	Sine	°	'

NOTE: For functions from 45°-0' to 68° read from bottom of table upward.

Trigonometric Tables



Trigonometric Functions

°	'	Sine	Tan.	Cotan.	Cosine	°	'	°	'	Sine	Tan.	Cotan.	Cosine	°	'
22	0	.374607	.404026	2.4750869	.927184	0	68	34	0	.559193	.674509	1.4825610	.829038	0	56
	10	.377302	.407414	2.4545061	.926090	50			10	.561602	.678749	1.4732983	.827407	50	
	20	.379994	.410810	2.4342172	.924980	40			20	.564007	.683007	1.4641147	.825770	40	
	30	.382683	.414214	2.4142136	.923880	30			30	.566406	.687281	1.4550090	.824126	30	
	40	.385369	.417626	2.3944889	.922762	20			40	.568801	.691573	1.4459801	.822475	20	
	50	.388052	.421046	2.3750372	.921638	10			50	.571191	.695881	1.4370268	.820817	10	
23	0	.390731	.424475	2.3558524	.920505	0	67	35	0	.573576	.700208	1.4281480	.819152	0	55
	10	.393407	.427912	2.3369287	.919364	50			10	.575957	.704552	1.4193427	.817480	50	
	20	.396080	.431358	2.3182606	.918216	40			20	.578332	.708913	1.4106098	.815801	40	
	30	.398749	.434812	2.2998425	.917060	30			30	.580703	.713293	1.4019483	.814116	30	
	40	.401415	.438276	2.2816693	.915896	20			40	.583069	.717691	1.3933571	.812423	20	
	50	.404078	.441748	2.2637357	.914725	10			50	.585429	.722108	1.3848355	.810723	10	
24	0	.406737	.445229	2.2460368	.913545	0	66	36	0	.587785	.726543	1.3763810	.809017	0	54
	10	.409392	.448719	2.2285676	.912358	50			10	.590136	.730996	1.3679959	.807304	50	
	20	.412045	.452218	2.2113234	.911164	40			20	.592482	.735469	1.3596764	.805584	40	
	30	.414693	.455726	2.1942997	.909961	30			30	.594823	.739961	1.3514224	.803857	30	
	40	.417338	.459244	2.1774920	.908751	20			40	.597159	.744472	1.3432331	.802123	20	
	50	.419980	.462771	2.1608958	.907533	10			50	.599489	.749003	1.3351075	.800383	10	
25	0	.422618	.466308	2.1445069	.906308	0	65	37	0	.601815	.753554	1.3270448	.798636	0	53
	10	.425253	.469854	2.1283213	.905075	50			10	.604136	.758125	1.3190441	.796882	50	
	20	.427884	.473410	2.1123348	.903834	40			20	.606451	.762716	1.3111046	.795121	40	
	30	.430511	.476976	2.0965436	.902585	30			30	.608761	.767327	1.3032254	.793353	30	
	40	.433125	.480551	2.0809438	.901329	20			40	.611067	.771959	1.2954057	.791579	20	
	50	.435755	.484137	2.0655318	.900065	10			50	.613367	.776612	1.2876447	.789798	10	
26	0	.438371	.487733	2.0503038	.898794	0	64	38	0	.615661	.781286	1.2799416	.788011	0	52
	10	.440984	.491339	2.0352565	.897515	50			10	.617951	.785981	1.2722957	.786217	50	
	20	.443593	.494955	2.0203862	.896229	40			20	.620235	.790698	1.2647062	.784416	40	
	30	.446197	.498582	2.0056897	.894934	30			30	.622515	.795436	1.2571723	.782608	30	
	40	.448799	.502219	1.9911637	.893633	20			40	.624789	.800196	1.2496933	.780794	20	
	50	.451397	.505867	1.9768050	.892323	10			50	.627057	.804980	1.2422685	.778973	10	
27	0	.453990	.509525	1.9626105	.891007	0	63	39	0	.629320	.809784	1.2348972	.777146	0	51
	10	.456580	.513195	1.9485772	.889682	50			10	.631578	.814612	1.2275786	.775312	50	
	20	.459166	.516876	1.9347020	.888350	40			20	.633831	.819463	1.2203121	.773472	40	
	30	.461749	.520567	1.9209821	.887011	30			30	.636078	.824336	1.2130970	.771625	30	
	40	.464327	.524270	1.9074147	.885664	20			40	.638320	.829234	1.2059327	.769771	20	
	50	.466901	.527984	1.8939971	.884309	10			50	.640557	.834155	1.1988184	.767911	10	
28	0	.469472	.531709	1.8807265	.882948	0	62	40	0	.642788	.839100	1.1917536	.766044	0	50
	10	.472038	.535547	1.8676003	.881578	50			10	.645013	.844069	1.1847376	.764171	50	
	20	.474600	.539395	1.8546159	.880201	40			20	.647233	.849062	1.1777698	.762292	40	
	30	.477149	.543295	1.8417709	.878817	30			30	.649448	.854081	1.1708496	.760406	30	
	40	.479713	.547228	1.8290628	.877425	20			40	.651657	.859124	1.1639763	.758514	20	
	50	.482263	.551055	1.8164892	.876026	10			50	.653861	.864193	1.1571495	.756615	10	
29	0	.484810	.554309	1.8040478	.874620	0	61	41	0	.656059	.869287	1.1503684	.754710	0	49
	10	.487352	.558118	1.7917362	.873206	50			10	.658252	.874407	1.1436326	.752798	50	
	20	.489890	.561939	1.7795524	.871784	40			20	.660439	.879553	1.1369414	.750880	40	
	30	.492424	.565773	1.7674940	.870356	30			30	.662620	.884725	1.1302944	.748956	30	
	40	.494953	.569619	1.7555590	.868920	20			40	.664796	.889924	1.1236909	.747025	20	
	50	.497479	.573478	1.7437453	.867476	10			50	.666966	.895151	1.1171305	.745088	10	
30	0	.500000	.577350	1.7320508	.866025	0	60	42	0	.669131	.900404	1.1106125	.743145	0	48
	10	.502517	.581235	1.7204736	.864567	50			10	.671289	.905685	1.1041365	.741195	50	
	20	.505030	.585134	1.7090116	.863102	40			20	.673443	.910994	1.0977020	.739239	40	
	30	.507538	.589045	1.6976631	.861629	30			30	.675590	.916331	1.0913085	.737277	30	
	40	.510043	.592970	1.6864261	.860149	20			40	.677732	.921697	1.0849554	.735309	20	
	50	.512543	.596908	1.6752988	.858662	10			50	.679868	.927021	1.0786423	.733335	10	
31	0	.515038	.600861	1.6642795	.857167	0	59	43	0	.681998	.932515	1.0723687	.731354	0	47
	10	.517529	.604827	1.6533663	.855665	50			10	.684123	.937968	1.0661341	.729367	50	
	20	.520016	.608807	1.6425576	.854156	40			20	.686242	.943451	1.0599381	.727374	40	
	30	.522499	.612801	1.6318517	.852640	30			30	.688355	.948965	1.0537801	.725374	30	
	40	.524977	.616809	1.6212469	.851117	20			40	.690462	.954508	1.0476598	.723369	20	
	50	.527450	.620832	1.6107417	.849586	10			50	.692563	.960083	1.0415767	.721357	10	
32	0	.529919	.624869	1.6003345	.848048	0	58	44	0	.694658	.965689	1.0355303	.719340	0	46
	10	.532384	.628921	1.5900238	.846503	50			10	.696748	.971326	1.0295203	.717316	50	
	20	.534844	.632988	1.5798079	.844951	40			20	.698832	.976996	1.0235461	.715286	40	
	30	.537300	.637079	1.5696856	.843391	30			30	.700909	.982697	1.0176074	.713251	30	
	40	.539751	.641167	1.5596552	.841825	20			40	.702981	.988432	1.0117088	.711209	20	
	50	.542197	.645280	1.5497155	.840251	10			50	.705047	.994199	1.0058348	.709161	10	
33	0	.544639	.649408	1.5398650	.838671	0	57	45	0	.707107	1.000000	1.0000000	.707107	0	45
	10	.547076	.653551	1.5301025	.837083	50				—	—	—	—	50	
	20	.549509	.657710	1.5204261	.835488	40				—	—	—	—	40	
	30	.551937	.661886	1.5108352	.833886	30				—	—	—	—	30	
	40	.554360	.666077	1.5013282	.832277	20				—	—	—	—	20	
	50	.556769	.670285	1.4919039	.830661	10				—	—	—	—	10	
°	'	Cosine	Cotan.	Tan.	Sine	°	'	°	'	Cosine	Cotan.	Tan.	Sine	°	'

NOTE: For functions from 45°-0' to 68° read from bottom of table upward.

Given	Multiply By	To Find
ABAMPERE	10	AMPERE
ACRES	0.4046856	HECTARE
ACRES	43560	SQUARE FEET
ACRES	4046.8564	SQUARE METERS
ACRES	1.562×10 ⁻³	SQUARE MILES
ARE	1076.391	SQUARE FEET
ATMOSPHERES	76	CMS. OF MERCURY
ATMOSPHERES	33.89854	FEET OF WATER
ATMOSPHERES	29.92	INCHES OF MERCURY
ATMOSPHERES	14.69595	POUNDS/SQUARE INCH
BAGS – CEMENT	94	POUNDS – CEMENT
BARRELS – OIL	5.614583	CUBIC FOOT
BARRELS – OIL	158.9873	LITER
BARRELS – OIL	42	GALLONS – OIL
BARRELS (US DRY)	3.281219	BUSHEL (US)
BARRELS (US DRY)	4.083333	CUBIC FEET
BARRELS (US DRY)	115.6271	LITER
BARRELS (US LIQ.)	4.2109375	CUBIC FEET
BARRELS (US LIQ.)	0.1192405	CUBIC METERS
BARRELS (US LIQ.)	26.22925	GALLONS (BRIT.)
BARRELS (US LIQ.)	31.5	GALLONS (US)
BARRELS – CEMENT	376	POUNDS – CEMENT
BTU	251.996	CALORIE
BTU	778.169	FOOT – POUNDS – FORCE
BTU	3.9302×10 ⁻⁴	HORSEPOWER – HOURS
BTU	0.252	KILOGRAM – CALORIES
BTU	107.586	KILOGRAM – METERS
BTU	2.9307×10 ⁻⁴	KILOWATT – HOURS
BTU	1055.056	JOULE
BTU/MIN.	12.96	FOOT – POUNDS/SEC.
BTU/MIN.	0.0235809	HORSEPOWER
BTU/MIN.	0.0175843	KILOWATTS
BTU/MIN.	17.5796	WATTS
BUSHEL (BRIT.)	1.032057	BUSHEL (US)
BUSHEL (BRIT.)	8	GALLONS (BRIT.)
BUSHEL (US)	0.3047647	BARREL (US DRY)
BUSHEL (US)	1.244456	CUBIC FEET
BUSHEL (US)	9.309177	GALLONS (US LIQ.)
CALORIE	4.1868	JOULE
CALORIE	3.96832×10 ⁻³	BTU
CALORIE	3.08803	FOOT – POUND – FORCE
CENTARES (CENTIARES)	1	SQUARE METERS
CENTIMETERS	0.3937008	INCHES
CENTIMETERS	.3937008	INCH
CENTIMETERS	0.01	METERS
CENTIMETERS	10	MILLIMETERS
CENTIMTRS. OF MERCURY	0.01316	ATMOSPHERES
CENTIMTRS. OF MERCURY	0.4461	FEET OF WATER
CENTIMTRS. OF MERCURY	136	KGS./SQUARE METER
CENTIMTRS. OF MERCURY	27.85	POUNDS/SQUARE FT.
CENTIMTRS. OF MERCURY	0.1934	POUNDS/SQUARE INCH
CENTIPOISE	0.001	PASCAL – SECOND
CHAIN (RAMSDEN'S)	100	FEET
CHAIN (GUNTER'S)	66	FEET
CORD	128	CUBIC FEET
CORD	3.624	STERE
COULOMB	1	AMPERE – SECOND
CUBIC CENTIMETER	0.06102	CUBIC INCHES
CUBIC CENTIMETER	0.001	LITER
CUBIC CENTIMETER	1	MILLILETER
CUBIC DECIMETER	0.0353	CUBIC FEET
CUBIC FEET	12	BOARD FEET
CUBIC FEET	0.803564	BUSHEL (US)
CUBIC FEET	1728	CUBIC INCHES
CUBIC FEET	0.0283168	CUBIC METERS
CUBIC FEET	28.317	CUBIC DECIMETERS
CUBIC FEET	0.037037	CUBIC YARD
CUBIC FEET	6.228835	GALLONS (BRIT.)
CUBIC FEET	7.480519	GALLONS (US)
CUBIC FEET	28.316847	LITERS
CUBIC FEET	25.71405	QUARTS (US DRY)
CUBIC FEET/HOUR	7.865791	CUBIC CM./SEC.
CUBIC FEET/HOUR	0.4719474	LITER/MIN.
CUBIC FEET/MIN.	0.1246753	GALLONS (US)/SEC.
CUBIC FEET/POUND	0.0624279	CUBIC METER/KILOGRAM
CUBIC METER	8.64849	BARREL (US DRY)
CUBIC METER	8.386414	BARREL (US LIQ.)
CUBIC METER	35.31467	CUBIC FEET
CUBIC METER	1.307951	CUBIC YARDS
CUBIC METER	264.1721	GALLONS (US)
CUBIC METER	1000	LITER
CUBIC YARDS	27	CUBIC FEET
CUBIC YARDS	0.7645548	CUBIC METER
CUBIC YARDS	201.974	GALLONS (US)
CUBIC YARDS/MIN.	0.45	CUBIC FEET/SEC.
CUBIC YARDS/MIN.	3.366234	GALLONS (US)/SEC.
CUBIT	18	INCH

Given	Multiply By	To Find
CUP	236.588	MILLILITER
CUP (METRIC)	200	MILLILITER
DEGREE	0.017453	RADIAN
DEGREE/SEC.	0.166667	REVOLUTION/MIN.
DENIER	0.11111(9)	TEX
DRACHM (BRIT. FLUID)	0.9607599	GRAM (U.S. FLUID)
DRAM (APOTH)	60	GRAINS
DRAM (AVOIR)	27.34375	GRAINS
DRAM (U.S. FLUID)	0.2255859	CUBIC INCHES
ELL	45	INCH
ERG	1×10 ⁻⁷	JOULE
FATHOM	6	FEET
FEET OF WATER	0.0295	ATMOSPHERES
FEET OF WATER	0.8826	INCHES OF MERCURY
FEET OF WATER	304.8	KGS./SQUARE METER
FEET OF WATER	62.43	POUNDS/SQUARE FT.
FEET OF WATER	0.4335	POUNDS/SQUARE INCH
FEET/MIN.	0.508	CENTIMETERS/SEC.
FEET/MIN.	0.01667	FEET/SEC.
FEET/MIN.	0.01829	KILOMETERS/HOUR
FEET/MIN.	0.3048	METERS/MIN
FEET/MIN.	0.01136	MILES/HOUR
FEET/SEC.	30.48	CENTIMETERS/SEC.
FEET/SEC.	1.097	KILOMETERS/HOUR
FEET/SEC.	0.5921	KNOTS
FEET/SEC.	18.29	METERS/MIN.
FEET/SEC.	0.6818	MILES/HOUR
FEET/SEC.	0.01136	MILES/MIN.
FERKIN (US)	9	GALLONS (US) DRY
FOOT	30.48	CENTIMETER
FOOT	12	INCH
FOOT/MINUTE	0.3048	METER
FOOT/MINUTE	0.018288	KILOMETER/HOUR
FOOT/SECOND	0.01136364	MILE/HOUR
FOOT/SECOND	0.3048	METER/SECOND
FOOT – POUNDS – FORCE	0.6818182	MILE/HOUR
FOOT – POUNDS – FORCE	5.050×10 ⁻⁷	HORSEPOWER – HOURS
FOOT – POUNDS – FORCE	1.35582	JOULES
FOOT – POUNDS – FORCE	3.241×10 ⁻⁴	KILOGRAM – CALORIES
FOOT – POUNDS – FORCE	0.1383	KILOGRAM – METERS
FOOT – POUNDS – FORCE	.766×10 ⁻⁵	KILOWATT – HOURS
FOOT – POUNDS – FORCE	1.286×10 ⁻³	BTU
FOOT – POUNDS/MIN.	1.286×10 ⁻³	BTU/MIN.
FOOT – POUNDS/MIN.	0.01667	FOOT – POUNDS/SEC.
FOOT – POUNDS/MIN.	3.030×10 ⁻⁴	HORSEPOWER
FOOT – POUNDS/MIN.	3.241×10 ⁻⁴	KG. – CALORIES/MIN.
FOOT – POUNDS/MIN.	2.260×10 ⁻⁵	KILOWATTS
FOOT – POUNDS/SEC.	7.717×10 ⁻²	BTU/MIN.
FOOT – POUNDS/SEC.	1.818×10 ⁻³	HORSEPOWER
FOOT – POUNDS/SEC.	1.945×10 ⁻²	KG. – CALORIES/MIN.
FOOT – POUNDS/SEC.	1.355818	WATTS
FURLONG	660	FEET
FURLONG	10	CHAIN
GALLON (BRIT.)	9.632619	CUBIC FT./HOUR
GALLON (BRIT.)	0.2727654	CUBIC METER/HOUR
GALLONS (US)/MIN.	8.020834	CUBIC FEET/HOUR
GALLONS (US)/MIN.	0.2271247	CUBIC METER/HOUR
GALLON (DRY)	268.8025	CUBIC INCH
GALLONS (LIQ.)	3785.412	CUBIC CENTIMETERS
GALLONS (LIQ.)	0.1336805	CUBIC FEET
GALLONS (LIQ.)	231	CUBIC INCHES
GALLONS (LIQ.)	3.785×10 ⁻³	CUBIC METERS
GALLONS (LIQ.)	4.951×10 ⁻³	CUBIC YARDS
GALLONS (LIQ.)	0.8326742	GALLONS (BRIT.)
GALLONS (LIQ.)	3.785412	LITERS
GALLONS (LIQ.)	8	PINTS (LIQ.)
GALLONS (LIQ.)	4	QUARTS (LIQ.)
GALLONS WATER	8.3453	POUNDS OF WATER
GALLONS WATER/MIN.	6.0086	TONS WATER/24 HOURS
GALLONS – IMPERIAL	1.20095	U.S. GALLONS
GALLONS – U.S.	0.83267	IMPERIAL GALLONS
GALLONS (US)/MIN.	2.228×10 ⁻³	CUBIC FEET/SEC.
GALLONS (US)/MIN.	8.020834	CUBIC FEET/HOUR
GALLONS (US)/MIN.	0.06308	Litros/SEC.
GILL	7.21875	CUBIC INCH
GILL	4	OUNCE (U.S.)
GILL (BRIT.)	1.20095	GILL (U.S.)
GILL (BRIT.)	0.0648	GRAMS
GRAINS (TROY)	17.118	PARTS/MILLION
GRAINS/U.S. GAL.	142.86	POUNDS/MILLION GAL.
GRAINS/U.S. GAL.	14.254	PARTS/MILLION
GRAMS	980.7	DYNES
GRAMS	15.432358	GRAINS
GRAMS	10 ³	KILOGRAMS
GRAMS	10 ⁹	MILLIGRAMS
GRAMS	0.0352739	OUNCES
GRAMS	0.03215	OUNCES (TROY)

Conversion Tables

Given	Multiply By	To Find
GRAMS	2.205×10 ⁻³	POUNDS
GRAMS	0.7716179	SCRUPLE
GRAMS (TROY)	2.0833×10 ⁻³	OUNCES (TROY)
GRAMS/CM.	5.600×10 ⁻³	POUNDS/INCH
GRAMS/CU. CM.	62.43	POUNDS/CUBIC FOOT
GRAMS/CU. CM.	0.03613	POUNDS/CUBIC INCH
GRAMS/LITER	58.417	GRAINS/GAL.
GRAMS/LITER	8.345	POUNDS/1000 GALS.
GRAMS/LITER	0.062427	POUNDS/CUBIC FOOT
GRAMS/LITER	1000	PARTS/MILLION
GROSS	12	DOZEN
HAND	4	INCH
HECTARE	2.471054	ACRE
HECTARE	107639.1	SQUARE FT.
HOGSHEAD	63	GALLONS
HORSEPOWER	42.4072	BTU/MIN.
HORSEPOWER	33000	FOOT – POUNDS/MIN.
HORSEPOWER	550	FOOT – POUNDS/SEC.
HORSEPOWER	1.014	HORSEPOWER (METRIC)
HORSEPOWER	10.7	KG. – CALORIES/MIN.
HORSEPOWER	0.7457	KILOWATTS
HORSEPOWER	745.7	WATTS
HORSEPOWER (BOILER)	33479	BTU/HOUR
HORSEPOWER (BOILER)	9.8095	KILOWATT
HORSEPOWER – HOURS	2547	BTU
HORSEPOWER – HOURS	1.98×10 ⁶	FOOT – POUNDS
HORSEPOWER – HOURS	641.7	KILOGRAM – CALORIES
HORSEPOWER – HOURS	2.737×10 ⁵	KILOGRAM – METERS
HORSEPOWER – HOURS	0.7457	KILOWATT – HOURS
INCH	1000	MILS
INCH	25.4	MILLIMETERS
INCHES OF MERCURY	0.03342	ATMOSPHERES
INCHES OF MERCURY	1.133	FEET OF WATER
INCHES OF MERCURY	345.3	KGS./SQUARE METER
INCHES OF MERCURY	70.73	LBS./SQUARE FT.
INCHES OF MERCURY	0.4912	LBS./SQUARE INCH
INCHES OF WATER	0.002458	ATMOSPHERES
INCHES OF WATER	0.07355	INCHES OF MERCURY
INCHES OF WATER	25.4	KGS./SQUARE METER
INCHES OF WATER	0.5781	OUNCES/SQUARE INCH
INCHES OF WATER	5.202	POUNDS/SQUARE FOOT
INCHES OF WATER	0.03613	POUNDS/SQUARE INCH
JOULE	0.000948	BTU
JOULE	0.238846	CALORIE
KILOGRAMS	980665	DYNES
KILOGRAMS	2.2046226	POUNDS
KILOGRAMS	1.102×10 ⁻³	TONS (SHORT)
KILOGRAMS	10 ³	GRAMS
KILOGRAMS – CALORIES	3.968	BTU
KILOGRAMS – CALORIES	3086	FOOT – POUNDS
KILOGRAMS – CALORIES	1.558×10 ⁻³	HORSEPOWER – HOURS
KILOGRAMS – CALORIES	1.162×10 ⁻³	KILOWATT – HOURS
KILOMETERS	10 ⁵	CENTIMETERS
KILOMETERS	3280.84	FEET
KILOMETERS	10 ³	METERS
KILOMETERS	0.6213712	MILES
KILOMETROS	1094	YARDS
KILOMETERS/HOUR	27.78	CENTIMETERS/SEC.
KILOMETERS/HOUR	54.68	FEET/MIN.
KILOMETERS/HOUR	0.9113	FEET/SEC.
KILOMETERS/HOUR	0.5396	KNOTS
KILOMETERS/HOUR	16.67	METERS/MIN.
KILOMETROS/HOUR	0.6214	MILES/HOUR
KILOWATT – HOURS	3415	BTU
KILOWATT – HOURS	2.655×10 ⁶	FOOT – POUNDS
KILOWATT – HOURS	1.341	HORSEPOWER – HOURS
KILOWATT – HOURS	3.6×10 ⁶	JOULE
KILOWATT – HOURS	860.5	KILOGRAM – CALORIES
KILOWATT – HOURS	3.671×10 ⁵	KILOGRAM – METERS
KILOWATTS	56.869	BTU/MIN.
KILOWATTS	44253.7	FOOT – POUNDS/MIN.
KILOWATTS	737.6	FOOT – POUNDS/SEC.
KILOWATTS	1.34102	HORSEPOWER
KILOWATTS	14.3308	KG. – CALORIES/MIN.
KILOWATTS	10 ⁻³	WATTS
KNOTS	1.150779	MILES (STATUTE)/HOUR
LEAGUE (STATUTE)	3	MILES (STATUTE)
LIGHT YEAR	5.8785×10 ¹²	MILES
LINK	0.01	CHAIN
LINK	7.92	INCHES
LITERS	10 ³	CUBIC CENTIMETERS
LITERS	0.03531	CUBIC FEET
LITERS	61.02	CUBIC INCHES
LITERS	10 ⁻³	CUBIC METERS
LITERS	1.308×10 ⁻³	CUBIC YARDS
LITERS	0.2642	GALLONS
LITERS	2.113	PINTS (LIQ.)

Given	Multiply By	To Find
LITERS	0.908	QUARTS (DRY)
LITERS	1.0567	QUARTS (LIQ.)
LITERS/MIN.	5.886×10 ⁻⁴	CUBIC FT./SEC.
LITERS/MIN.	13.19815	GALLON (BRIT.)/HOUR
LITERS/MIN.	4.403×10 ⁻³	GALLONS/SEC.
LITERS/SEC.	2.11888	CUBIC FT./MIN.
METERS	100	CENTIMETERS
METERS	3.2808399	FEET
METERS	39.37	INCHES
METERS	10 ⁻³	KILOMETROS
METERS	10 ³	MILLIMETERS
METERS	1.093613	YARDS
METERS/MIN.	1.667	CENTIMETERS/SEC.
METERS/MIN.	3.281	FEET/MIN.
METERS/MIN.	0.05468	FEET/SEC.
METERS/MIN.	0.06	KILOMETROS/HOUR
METERS/MIN.	0.03728	MILES/HOUR
METERS/SEC.	196.8	FEET/MIN.
METERS/SEC.	3.281	FEET/SEC.
METERS/SEC.	3.6	KILOMETER/HOUR
METERS/SEC.	0.06	KILOMETROS/MIN.
METERS/SEC.	2.236936	MILES/HOUR
METERS/SEC.	0.03728	MILES/MIN.
MIL	0.001	INCH
MIL	0.0254	MILLIMETER
MILES	320	ROD
MILES	1.609×10 ⁵	CENTIMETERS
MILES	5280	FEET
MILES	1.609	KILOMETROS
MILES	1760	YARDS
MILES/HOUR	44.7	CENTIMETERS/SEC.
MILES/HOUR	88	FEET/MIN.
MILES/HOUR	1.467	FEET/SEC.
MILES/HOUR	1.609	KILOMETROS/HOUR
MILES/HOUR	0.8684	KNOTS
MILES/HOUR	26.82	Meters/MIN.
MILES/HOUR	1.609344	KILOMETROS/HOUR
MILES/HOUR	0.8689762	KNOTS
MILES/MIN.	2682	CENTIMETERS/SEC.
MILES/MIN.	88	FEET/SEC.
MILES/MIN.	1.609	KILOMETROS/MIN.
MILES/MIN.	60	MILES/HOUR
MILLIGRAMS	10 ⁻³	GRAMS
MILLIGRAMS/LITER	1	PARTS/MILLION
MILLILITERS	0.0610237	CUBIC INCH
MILLILITERS	0.0338142	FLUID OUNCES
MILLILITERS	10 ⁻³	LITERS
MILLIMETERS	0.1	CENTIMETERS
MILLIMETERS	0.03937	INCHES
MILLION GALS./DAY	1.54723	CUBIC FT./SEC.
MINER'S INCHES	1.5	CUBIC FT./MIN.
MINUTES (ANGLE)	2.909×10 ⁻⁴	RADIANS
NEWTON – METER	0.737562	FOOT – POUNDS – FORCE
OUNCES	16	DRAMS
OUNCES	437.5	GRAINS
OUNCES	0.0625	POUNDS
OUNCES	28.349527	GRAMS
OUNCES	0.9115	OUNCES (TROY)
OUNCES	2.790×10 ⁻⁵	TONS (LONG)
OUNCES	2.835×10 ⁻⁵	TONS (METRIC)
OUNCES (FLUID)	1.805	CUBIC INCHES
OUNCES (FLUID)	0.02957	LITERS
OUNCES (FLUID)	30	MILLILITERS
OUNCES (TROY)	1.040843	OUNCES (BRIT. FLUID)
OUNCES (TROY)	480	GRAINS
OUNCES (TROY)	20	PENNYWEIGHTS (TROY)
OUNCES (TROY)	0.08333	POUNDS (TROY)
OUNCES (TROY)	31.103481	GRAMS
OUNCES (TROY)	1.09714	OUNCES (AVOIR.)
OUNCES/SQUARE INCH	0.0625	POUNDS/SQUARE INCH
PACE	2.5	FEET
PALM	3	INCH
PARTS/MILLION	0.0584	GRAINS/U.S. GAL.
PARTS/MILLION	0.07016	GRAINS/IMP. GAL.
PARTS/MILLION	8.345	POUNDS/MILLION GAL.
PASCAL	0.0208854	POUNDS – FORCE/SQ. FT.
PECK (BRIT.)	2	GALLON (BRIT)
PECKS (US)	8	QUARTS (US DRY)
PENNYWEIGHTS (TROY)	24	GRAINS
PENNYWEIGHTS (TROY)	1.55517	GRAMS
PENNYWEIGHTS (TROY)	0.05	OUNCES (TROY)
PENNYWEIGHTS (TROY)	4.1667×10 ⁻³	POUNDS (TROY)
PERCH (MASONRY)	24.75	CUBIC FEET
POINT (U.S.-PRINT)	0.013837	INCH
POLE (BRIT.)	16.5	FEET



Conversion Tables

Given	Multiply By	To Find
POTTE (BRIT.)	.5	GALLONS
POUNDS	16	OUNCES
POUNDS	256	DRAMS
POUNDS	7000	GRAINS
POUNDS	0.0005	TONS (SHORT)
POUNDS	453.5924	GRAMS
POUNDS	1.21528	POUNDS (TROY)
POUNDS	14.5833	OUNCES (TROY)
POUNDS OF WATER	0.01602	CUBIC FEET
POUNDS OF WATER	27.68	CUBIC INCHES
POUNDS OF WATER	0.1198	GALLONS
POUNDS OF WATER/MIN.	2.670×10 ⁻⁴	CUBIC FT./SEC.
POUNDS (TROY)	5760	GRAINS
POUNDS (TROY)	140	PENNYWEIGHTS (TROY)
POUNDS (TROY)	12	OUNCES (TROY)
POUNDS (TROY)	373.24177	GRAMS
POUNDS (TROY)	0.822857	POUNDS (AVOIR.)
POUNDS (TROY)	13.1657	OUNCES (AVOIR.)
POUNDS (TROY)	3.6735×10 ⁻⁴	TONS (LONG)
POUNDS (TROY)	4.1143×10 ⁻⁴	TONS (SHORT)
POUNDS (TROY)	4.1667×10 ⁻³	TONS (METRIC)
POUNDS/CUBIC FOOT	0.01602	GRAMS/CUBIC CM.
POUNDS/CUBIC FOOT	16.02	KGS./CUBIC METERS
POUNDS/CUBIC FOOT	5.787×10 ⁻⁴	POUNDS/CUBIC INCH
POUNDS/CUBIC INCH	27.68	GRAMS/CUBIC CM.
POUNDS/CUBIC INCH	2.768×10 ⁴	KGS./CUBIC METER
POUNDS/CUBIC INCH	1728	POUNDS/CUBIC FOOT
POUNDS/FOOT	1.488	KGS./METER
POUNDS/INCH	178.6	GRAMS/CM.
POUNDS/SQUARE FOOT	0.01602	FEET OF WATER
POUNDS/SQUARE FOOT	4.883	KGS./SQUARE METER
POUNDS/SQUARE FOOT	6.945×10 ⁻³	POUNDS/SQUARE INCH
POUNDS/SQUARE INCH	0.068046	ATMOSPHERES
POUNDS/SQUARE INCH	2.307	FEET OF WATER
POUNDS/SQUARE INCH	2.03602	INCHES OF MERCURY
POUNDS/SQUARE INCH	703.1	KGS./SQUARE METER
PSI	1	POUND – FORCE/SQ. IN.
PUNCHEON	84	GALLONS
PUNCHEON (BRIT.)	70	GALLON (BRIT.)
QUARTS (DRY)	0.03125	BUSHEL
QUARTS (DRY)	67.200625	CUBIC INCHES
QUARTS (DRY)	1.101	LITERS
QUARTS (LIQ)	57.75	CUBIC INCHES
QUARTS (LIQ)	0.9463	LITER
QUARTS (LIQ)	0.8326742	QUART (BRIT.)
QUARTS (LIQ)	0.859367	QUART (DRY)
QUINTAL, ARGENTINE	101.28	POUNDS
QUINTAL, BRAZIL	129.54	POUNDS
QUINTAL, CASTILE, PERU	101.43	POUNDS
QUINTAL, CHILE	101.41	POUNDS
QUINTAL, METRIC	220.46	POUNDS
QUINTAL, MEXICO	101.47	POUNDS
RADIANS	57.29578	DEGREES
RADIANS	3437.747	MINUTES
RADIANS	0.63662	QUADRANTS
RADIANS/SEC.	57.3	DEGREES/SEC.
RADIANS/SEC.	0.1592	REVOLUTIONS/SEC.
RADIANS/SEC.	9.549297	REVOLUTIONS/MIN.
REAMS	500	SHEETS
REVOLUTIONS	360	DEGREES
REVOLUTIONS	4	QUADRANTS
REVOLUTIONS	6.283	RADIANS
REVOLUTIONS/MIN.	6	DEGREES/SEC.
REVOLUTIONS/MIN.	0.1047	RADIANS/SEC.
REVOLUTIONS/MIN.	0.01667	REVOLUTIONS/SEC.
REVOLUTIONS/SEC.	360	DEGREES/SEC.
REVOLUTIONS/SEC.	6.283	RADIANS/SEC.
REVOLUTIONS/SEC.	60	REVOLUTIONS/MIN.
RODS	16.5	FEET
ROPE	20	FEET
SCRUPLE	20	GRAINS
SEAM (BRIT.)	64	GALLON (BRIT.)
SLUG	14.5939	KILOGRAMS
SPAN	9	INCHES
SQUARE CM.	10 ⁻⁴	SQUARE METERS
SQUARE CM.	100	SQUARE MILLIMETERS
SQUARE FEET	2.296×10 ⁻⁵	ACRES
SQUARE FEET	929	SQUARE CENTIMETERS
SQUARE FEET	144	SQUARE INCHES
SQUARE FEET	0.0929	SQUARE METERS
SQUARE FEET	2.587×10 ⁻³	SQUARE MILES
SQUARE FEET	.9	SQUARE YARDS
SQUARE INCHES	6.452	SQUARE CENTIMETERS
SQUARE INCHES	6.944×10 ⁻³	SQUARE FEET
SQUARE INCHES	645.2	SQUARE MILLIMETERS
SQUARE KILOMETERS	247.1	ACRES
SQUARE KILOMETERS	10.76×10 ⁶	SQUARE FEET

Given	Multiply By	To Find
SQUARE KILOMETERS	10 ⁶	SQUARE METERS
SQUARE KILOMETERS	0.3861	SQUARE MILES
SQUARE KILOMETERS	1.196×10 ⁶	SQUARE YARDS
SQUARE METERS	2.471×10 ⁻⁴	ACRES
SQUARE METERS	10.76	SQUARE FEET
SQUARE METERS	3.861×10 ⁻⁷	SQUARE MILES
SQUARE METERS	1.196	SQUARE YARDS
SQUARE MILES	640	ACRES
SQUARE MILES	27.88×10 ⁶	SQUARE FEET
SQUARE MILES	2.59	SQUARE KILOMETERS
SQUARE MILES	3.098×10 ⁶	SQUARE YARDS
SQUARE MILLIMETERS	0.001	SQUARE CENTIMETERS
SQUARE MILLIMETERS	1.550×10 ⁻³	SQUARE INCHES
SQUARE YARDS	2.066×10 ⁻⁴	ACRES
SQUARE YARDS	9	SQUARE FEET
SQUARE YARDS	0.8361	SQUARE METERS
SQUARE YARDS	3.228×10 ⁻⁷	SQUARE MILES
STERE	1	CUBIC METER
STERE	0.2759	CORD
STONE	14	POUNDS
TABLESPOON	14.79	MILLILITERS
TEASPOON	5	MILLILITERS
TEMP.(°C.)+17.78	1.8	TEMP.(°F.)
TEMP.(°F)-32	.555	TEMP.(°C.)
THERM	100,000	BTU
TONS OF WATER/24 HRS.	83.333	POUNDS WATER/HOUR
TONS OF WATER/24 HRS.	0.16643	GALLONS/MIN.
TONS OF WATER/24 HRS.	1.3349	CUBIC FT./HOUR
TONS (LONG)	1016.0469	KILOGRAMS
TONS (LONG)	1.016047	TONS (METRIC)
TONS (LONG)	2240	POUNDS
TONS (LONG)	1.12	TONS (SHORT)
TONS (METRIC)	10 ³	KILOGRAMS
TONS (METRIC)	2205	POUNDS
TONS (SHORT)	2000	POUNDS
TONS (SHORT)	32000	OUNCES
TONS (SHORT)	907.18486	KILOGRAMS
TONS (SHORT)	2430.56	POUNDS (TROY)
TONS (SHORT)	0.89287	TONS (LONG)
TONS (SHORT)	29166	OUNCES (TROY)
TONS (SHORT)	0.90718	TONS (METRIC)
WATT – HOUR	3600	JOULE
WATTS	0.05692	BTU/MIN.
WATTS	44.26	FOOT – POUNDS/MIN.
WATTS	0.7376	FOOT – POUNDS/SEC.
WATTS	1.341×10 ⁻³	HORSEPOWER
WATTS	0.01434	KG. – CALORIES/MIN.
WATTS	10 ⁻³	KILOWATTS
WATTS – HOURS	3.41214	BTU
WATTS – HOURS	2655	FOOT – POUNDS – FORCE
WATTS – HOURS	1.341×10 ⁻³	HORSEPOWER – HOURS
WATTS – HOURS	3600	JOULES
WATTS – HOURS	0.8605	KILOGRAM – CALORIES
WATTS – HOURS	367.1	KILOGRAM – METROS
WATTS – HOURS	10 ⁻³	KILOWATT – HOURS
YARDS	91.44	CENTIMETERS
YARDS	36	INCHES
YARDS	0.9144	METROS