

IRWIN®

Extractors








Serious Solutions for Stuck Fasteners

IRWIN® Tools has the solution to deal with a stuck fastener, a rounded or broken head, a snapped stud, or a stripped screw or fitting. Five different styles of extractors give you extra gripping power to remove problem fasteners without damaging workpieces.

Remove the Guesswork in Fastener Extraction

Fasteners vary widely in composition and hardness. That's why IRWIN has many different products for removing damaged fasteners and parts. Each extraction tool is specifically designed to take into account the material involved in order to make removal easier. The guidelines below will help you choose the tool that will deliver the optimal results for your particular situation.

EXTRACTORS

Extractor Type	Benefits	Fastener Size Range	Drive Tool
Straight Flute 	<ul style="list-style-type: none"> Extracts without expanding material Ideal for pipes and fittings Works on left-hand or right-hand threads 	3/16" - 7/8"	<ul style="list-style-type: none"> Tap Wrench Wrench Socket Wrench VISE-GRIP® Locking Pliers IRWIN Tap Adaptors
Spiral Screw 	<ul style="list-style-type: none"> Spiral bites into harder materials with increasing torque Flutes embed deeper with each turn 	3/32" - 2-1/2"	<ul style="list-style-type: none"> Tap Wrench Wrench Socket Wrench VISE-GRIP Locking Pliers IRWIN Tap Adaptors
Multi-Spline Screw 	<ul style="list-style-type: none"> Low profile enables use in confined areas Provides most torque of internal extractors Engages fastener without a deep hole 	1/8" - 7/8"	<ul style="list-style-type: none"> Flat Wrench Socket Wrench VISE-GRIP Locking Pliers
Bolt Extractor 	<ul style="list-style-type: none"> Engages rusted-over, painted-on, and stripped-out bolts Grips broken, worn, or stubborn fasteners Drive with a variety of tools 	1/4" - 1"	<ul style="list-style-type: none"> Socket Wrench Wrench VISE-GRIP Locking Pliers
POWER-GRIP™ Screw & Bolt Extractors 	<ul style="list-style-type: none"> Grips rusted, painted, stripped, and even round-head fasteners and screws Easily fits into drill or power driver with quick change shank 	3/16" - 1/2"	<ul style="list-style-type: none"> Power Drill VISE-GRIP Locking Pliers

Guide for Using Screw Extractors

Drill a hole in the threaded part or fastener to be removed. Drill deep enough for the extractor to grip without bottoming out. For best results, use a left-handed drill bit. Insert the extractor and turn with a wrench or drive tool.

HANSON® Straight Flute 536/526 Series



52605

- Extracts without expanding material
- Ideal for pipes and fittings
- Works on left-hand or right-hand threads

Description	Recommended Tap Wrench	Use Drill Size	Removes Bolts & Screws	Carded Item #	Bulk Item #
ST-1	TR-88	9/64"	3/16" - 5/16", 5 mm - 8 mm, No. 10	53601	52601
ST-2	TR-88	3/16"	3/8", 10 mm	53602	52602
ST-3	TR-88	15/64"	7/16" and 1/8" NPT, 10 mm, 1/8" BSP	53603	52603
ST-4	TR-98	5/16"	1/2" - 9/16" and 1/4" NPT, 12 mm - 14 mm, 1/4" BSP	53604	52604
ST-5	TR-98	3/8"	5/8" and 3/8" NPT, 16 mm, 3/8" BSP	53605	52605
ST-6	TR-98	15/32"	3/4" and 1/2" NPT, 20 mm, 1/2" BSP	53606	52606
ST-7	TR-98	9/16"	7/8", 22 mm, 5/8" BSP	53607	52607

HANSON Straight Flute Extractor Sets 536/526 Series



53625

Description	Contents	Carded Item #
4-pc Set	ST-2 - ST-5	53625
5-pc Set	ST-1 - ST-5	53635
6-pc Set	ST-1 - ST-6	53645

HANSON 10-piece Straight Flute Extractor & Cobalt Drill Bit Set



11118

Description	Contents		Carded Set Item # 11118	
10-pc Extractor & Cobalt Drill Bit Set in Vinyl Pouch	Straight Flute Extractors/Item #	Drill Bits/	Item #	
	ST-1	52601	9/64"	63109
	ST-2	52602	3/16"	63112
	ST-3	52603	15/64"	63115
	ST-4	52604	5/16"	63120
	ST-5	52605	3/8"	63124

Extractors

Spiral Screw

HANSON® Spiral Screw Extractor 534/524 Series



52405

- Designed to remove broken studs, bolts, socket screws and fittings
- Aggressive left hand spiral design for extra gripping power

Description	Recommended Tap Wrench	Use Drill Size	Removes Bolts & Screws	Carded Item #	Bulk Item #
EX-1	TR-88	5/64"	3/32" - 5/32", 2.5 mm - 4 mm, No. 3 - No. 6	53401	52401
EX-2	TR-88	7/64"	5/32" - 7/32", 4 mm - 6 mm, No. 6 - No. 12	53402	52402
EX-3	TR-88	5/32"	7/32" - 9/32", 6 mm - 8 mm, No. 12	53403	52403
EX-4	TR-88	1/4"	9/32" - 3/8", 1/8" NPT, 1/8" BSP, 8 mm - 10 mm	53404	52404
EX-5	TR-98	19/64"	3/8" - 5/8", 1/4" NPT, 1/4" BSP, 10 mm - 16 mm	53405	52405
EX-6	TR-98	13/32"	5/8" - 7/8", 3/8" NPT, 3/8" BSP, 16 mm - 22 mm	53406	52406
EX-7	TR-98	17/32"	7/8" - 1-1/8", 1/2" NPT, 1/2" BSP, 22 mm - 27 mm	53407	52407
EX-8	—	13/16"	1-1/8" - 1-3/8", 3/4" NPT, 3/4" BSP, 27 mm - 36 mm	—	52408
EX-9	—	1-1/16"	1-3/8" - 2", 1" NPT, 1" BSP, 36 mm - 52 mm	—	52409
EX-10	—	1-15/16"	2-1/8" - 2-1/2", 1-1/4" NPT, 1-1/4" BSP, 52 mm - 68 mm	—	52410

HANSON Spiral Screw Extractor & Drill Bit Combo Packs 537 Series



53704

- High speed steel drill bit ensures fast, clean drilling

Description	Carded Item #
EX-1 + 5/64" Drill Bit	53701
EX-2 + 7/64" Drill Bit	53702
EX-3 + 5/32" Drill Bit	53703
EX-4 + 1/4" Drill Bit	53704
EX-5 + 19/64" Drill Bit	53705
EX-6 + 13/32" Drill Bit	53706

Description	Contents	Carded Item #	53700
6-pc Extractor & HSS Drill Bit Set in Vinyl Pouch	Straight Screw Extractors	Item #	Drill Bits Item #
	EX-1	52401	5/64" 60105
	EX-2	52402	7/64" 60107
	EX-3	52403	5/32" 60110

HANSON Spiral Screw Extractor Sets



53535

Description	Contents	Carded Item #	Bulk Item #
4-pc Set	EX-2 - EX-5	—	52425
5-pc Set	EX-1 - EX-5	53535	52435
6-pc Set	EX-1 - EX-6	53545	52445
9-pc Set	EX-1 - EX-9	—	52490

HANSON® 10-piece Spiral Screw Extractor & Drill Bit Set



11119

HANSON 10-piece Spiral Screw Extractor & Drill Bit Combo Packs



11117

HANSON 35-piece Spiral Screw Extractor & Drill Bit Set



11135ZR

HANSON 48-piece Master Extractor Set



3101010

- IRWIN's most complete extractor kit
- For use with fasteners above, below, or flush with the work surface

Description	Contents		Item # 11119	
10-pc Set in Metal Index	Spiral Screw Extractors/Item#		Drill Bits/Item #	
	EX-1	52401	5/64"	30505
	EX-2	52402	7/64"	30507
	EX-3	52403	5/32"	30510
	EX-4	52404	1/4"	30516
	EX-5	52405	19/64"	30519

Description	Contents		Item # 11117	
10-pc Set in Metal Index	Spiral Screw Extractors/Item#		Drill Bits/Item #	
	EX-1	52401	5/64"	63105
	EX-2	52402	7/64"	63107
	EX-3	52403	5/32"	63110
	EX-4	52404	1/4"	63116
	EX-5	52405	19/64"	63119

Description	Contents		Item # 11135ZR	
35-pc Set	Spiral Screw Extractors/Item #	Multi Spline Extractors/Item #	Left-Hand Cobalt Drill Bits/Item #	
	EX-1 52401	1/8" 53201	5/64"	30505
	EX-2 52402	5/32" 53202	7/64"	30507
	EX-3 52403	3/16" 53203	1/8"	30508
	EX-4 52404	7/32" 53204	5/32"	30510
	EX-5 52405	1/4" 53205	3/16"	30512
	EX-6 52406	9/32" 53206	7/32"	30514
		5/16" 53207	1/4"	30516
		11/32" 53208	9/32"	30518
		3/8" 53209	19/64"	30519
		13/32" 53210	5/16"	31520
		7/16" 53211	11/32"	30522
		15/32" 53212	3/8"	30524
		1/2" 53213	13/32"	30526
			7/16"	30528
			15/32"	30530
			1/2"	30532

Description	Contents		Item # 3101010	
48-pc Master Set	Spiral Screw Extractors/Item #	Multi Spline Extractors/Item #	Bolt Extractors/Item #	Left-Hand Cobalt Drill Bits/Item #
	EX-1 52401	1/8" 53201	1/4" 53901	5/64" 30505
	EX-2 52402	5/32" 53202	5/16"-8mm 53902	7/64" 30507
	EX-3 52403	3/16" 53203	3/8" 53903	1/8" 30508
	EX-4 52404	7/32" 53204	10mm 53904	5/32" 30510
	EX-5 52405	1/4" 53205	7/16"-11mm 53905	3/16" 30512
	EX-6 52406	9/32" 53206	12mm 53906	7/32" 30514
		5/16" 53207	1/2" 53907	1/4" 30516
		11/32" 53208	13mm 53908	9/32" 30518
		3/8" 53209	9/16"-14mm 53909	19/64" 30519
		13/32" 53210	5/8"-16mm 53910	5/16" 31520
		7/16" 53211	17mm 53911	11/32" 30522
		15/32" 53212	11/16" 53912	3/8" 30524
		1/2" 53213	3/4"-19mm 53913	13/32" 30526
				7/16" 30528
				15/32" 30530
				1/2" 30532

Extractors

Multi-Spline Screw

HANSON® Hex Head Multi-Spline



53225

- Designed to remove broken studs, bolts, socket screws and fittings for high torque applications
- Aggressive left-hand spiral design for extra gripping power

Description	Hex Head Size	Bolt Diameter	Recommended Drill Bit Diameter	Carded Item #	Bulk Item #
1/8"	1/2"	#12	1/8"	52201ZR	53201
5/32"	1/2"	1/4"	5/32"	52202	53202
3/16"	1/2"	5/16"	3/16"	52203	53203
7/32"	1/2"	3/8"	7/32"	52204	53204
1/4"	1/2"	7/16"	1/4"	52205	53205
9/32"	1/2"	1/2"	9/32"	52206	53206
5/16"	1/2"	9/16"	5/16"	52207	53207
11/32"	1/2"	5/8"	11/32"	52208	53208
3/8"	1/2"	11/16"	3/8"	—	53209
13/32"	1/2"	3/4"	13/32"	—	53210
7/16"	5/8"	13/16"	7/16"	—	53211
15/32"	5/8"	7/8"	15/32"	—	53212
1/2"	5/8"	15/16"	1/2"	—	53213
17/32"	3/4"	1"	17/32"	—	53214
9/16"	3/4"	1-1/16"	9/16"	—	53215ZR
19/32"	3/4"	1-1/8"	19/32"	—	53216
5/8"	3/4"	1-3/16"	5/8"	—	53217
21/32"	7/8"	1-1/4"	21/32"	—	53218
11/16"	7/8"	1-5/16"	11/16"	—	53219
23/32"	7/8"	1-3/8"	23/32"	—	53220
3/4"	7/8"	1-7/16"	3/4"	—	53221
25/32"	1"	1-1/2"	25/32"	—	53222
13/16"	1"	1-9/16"	13/16"	—	53223
27/32"	1"	1-5/8"	27/32"	—	53224
7/8"	1"	1-11/16"	7/8"	—	53225

HANSON Hex Head Multi-Spline



53226

Description	Contents	Item #
10-pc Set	1/8" through 13/32"	53226
Empty Case for 53226	—	53226MT
15-pc Set	1/8" through 9/16"	53228
Empty Case for 53228	—	53228MT
25-pc Set	1/8" through 7/8"	53227
Empty Case for 53227	—	53227MT

HANSON® BOLT-GRIP® Bolt Extractors

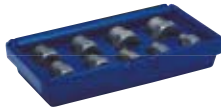


53910

- Reverse spiral flutes bite into bolt
- For use with 3/8" socket drive, VISE-GRIP® Locking Pliers, or wrench.

Removes Fractional Size Bolts	Removes Metric Size Bolts	Drive Size	Item #
1/4"	6 mm	3/8"	53901
5/16"	8 mm	3/8"	53902
3/8"	—	3/8"	53903
—	10 mm	3/8"	53904
7/16"	11 mm	3/8"	53905
—	12 mm	3/8"	53906
1/2"	—	3/8"	53907
—	13 mm	3/8"	53908
9/16"	14 mm	3/8"	53909
5/8"	16 mm	3/8"	53910
—	17 mm	3/8"	53911
11/16"	—	3/8"	53912
3/4"	19 mm	3/8"	53913
3/4"	19 mm	1/2"	53914
13/16"	21 mm	1/2"	53915
7/8"	22 mm	1/2"	53916
15/16"	24 mm	1/2"	53917
1"	—	1/2"	53918

HANSON BOLT-GRIP 9-piece Fractional Bolt Extractor Set



54009

Removes Fractional Size Bolts	Removes Metric Size Bolts	Drive Size	Item #
1/4"	6 mm	3/8"	53901
5/16"	8 mm	3/8"	53902
3/8"	—	3/8"	53903
7/16"	11 mm	3/8"	53905
1/2"	—	3/8"	53907
9/16"	14 mm	3/8"	53909
5/8"	16 mm	3/8"	53910
11/16"	—	3/8"	53912
3/4"	19 mm	3/8"	53913

HANSON BOLT-GRIP 9-piece Metric Bolt Extractor Set



54019

Removes Fractional Size Bolts	Removes Metric Size Bolts	Drive Size	Item #
5/16"	8 mm	3/8"	53902
—	10 mm	3/8"	53904
7/16"	11 mm	3/8"	53905
—	12 mm	3/8"	53906
—	13 mm	3/8"	53908
9/16"	14 mm	3/8"	53909
5/8"	16 mm	3/8"	53910
—	17 mm	3/8"	53911
3/4"	19 mm	3/8"	53913

HANSON BOLT-GRIP 13-piece Professional Industrial Set



54113

Removes Fractional Size Bolts	Removes Metric Size Bolts	Drive Size	Item #
1/4"	6 mm	3/8"	53901
5/16"	8 mm	3/8"	53902
3/8"	—	3/8"	53903
—	10 mm	3/8"	53904
7/16"	11 mm	3/8"	53905
—	12 mm	3/8"	53906
1/2"	—	3/8"	53907
—	13 mm	3/8"	53908
9/16"	14 mm	3/8"	53909
5/8"	16 mm	3/8"	53910
—	17 mm	3/8"	53911
11/16"	—	3/8"	53912
3/4"	19 mm	3/8"	53913

Extractors

Bolt Extractors

HANSON® BOLT-GRIP® 5-piece Lugnut Specialty Set



54125

Removes Fractional Size Bolts	Removes Metric Size Bolts	Drive Size	Item # 54125
3/4"	19 mm	1/2"	53914
13/16"	21 mm	1/2"	53915
7/8"	22 mm	1/2"	53916
15/16"	24 mm	1/2"	53917
1"	—	1/2"	53918

5-piece HANSON BOLT-GRIP Base Set



394001

- Includes most commonly used sizes
- Engineered to grip bolts in almost any condition
- Case accommodates Expansion Set (#394002)

Removes Fractional Size Bolts	Removes Metric Size Bolts	Drive Size	Item # 394001
3/8"	—	3/8"	53903
7/16"	11 mm	3/8"	53905
1/2"	—	3/8"	53907
9/16"	14 mm	3/8"	53909
5/8"	16 mm	3/8"	53910

5-piece HANSON BOLT-GRIP Expansion Set



394002

- Provides additional diameters to address a complete range of fastener sizes

Removes Fractional Size Bolts	Removes Metric Size Bolts	Drive Size	Item # 394002
5/16"	8 mm	3/8"	53902
—	10 mm	3/8"	53904
—	13 mm	3/8"	53908
11/16"	—	3/8"	53912
3/4"	19 mm	3/8"	53913

5-piece HANSON BOLT-GRIP Deep Well Set



3094001

- Longer profile and smaller head to fit in smaller areas
- Reaches recessed fasteners and fits over exposed studs

Removes Fractional Size Bolts	Removes Metric Size Bolts	Drive Size	Item # 3094001
3/8"	—	3/8"	59903
7/16"	11 mm	3/8"	59905
1/2"	—	3/8"	59907
9/16"	14 mm	3/8"	59909
5/8"	16 mm	3/8"	59910

7-piece HANSON POWER-GRIP™ Set



394100

- Reverse spiral teeth provide maximum gripping power
- 1/4" hex shank fits most drills and Quick Change Adaptors

Removes Fractional Size Bolts	Removes Metric Size Bolts	Drive Size	Item # 394100
3/16"	—	1/4"	394100A
1/4"	—	1/4"	394101A
5/16"	8 mm	1/4"	394102A
3/8"	—	1/4"	394103A
—	10 mm	1/4"	394104A
7/16"	11 mm	1/4"	394105A
1/2"	—	1/4"	394107A