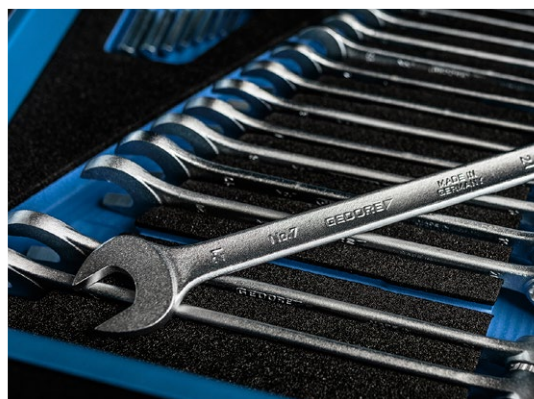
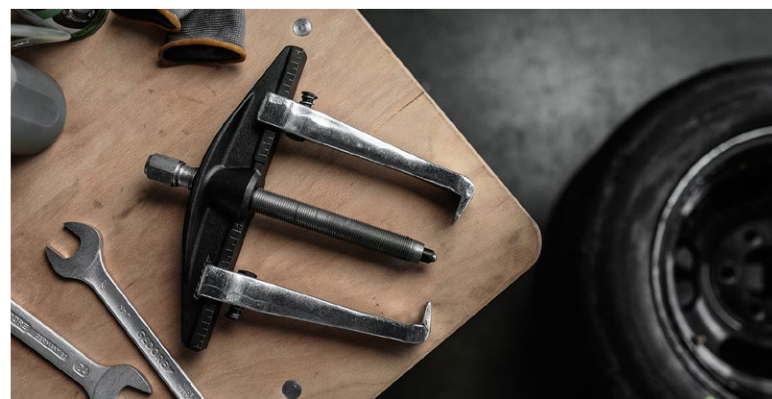


**100<sup>TH</sup>**  
ANNIVERSARY  
1919 - 2019

**GEDORE**  
TOOLS FOR LIFE

# ENTIRE RANGE



2019



# Constant innovation.

We won't remain good if we don't strive to be constantly better.

Remaining true to this claim we have come up with a fresh presentation for bundling our skills: The strength of the entire company group is fused into one powerful brand – GEDORE.

Along with the tried-and-tested portfolio, this catalogue has numerous new product ideas. They again reveal how successful a connection is – the innovation potential of which is built on the sound foundation of a lengthy track record and second-to-none manufacturer competence.

For practically 100 years now, our customer have placed maximum demands on our products as regards material, design, processing, precision, strength and durability. And these requirements continue to define and determine our standards

in realising our vision: One of people across the world working more safely and productively – with GEDORE tools.

As no other brand can do, GEDORE stands for maximum quality, local presence, technical competence and reliability. A good enough reason for you to continue to put your trust in us as the reliable partner at your side – when it's a matter of using the best possible tools to excellently master the most complex of tasks.

**Our word in your hands.  
GEDORE – Tools for life.**

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## › 205

1993 U-20  
REVERSIBLE RATCHET 1/2



## › 054

GEDORE SORTIMO®  
MOBILITY IN  
PERFECTION



TORQUE TOOLS  
UNCOMPROMISING  
AMBITION

Controlled screw tightening - reliable  
and safe for more than 50 years

**> 258**

**> 020**

WSL-L  
WORKSTER SMARTLINE



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**> 378**



7R  
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**> 123**



8573 BC - 8578 BCL  
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**> 273**



## Future-oriented intelligence.

Innovation stands for renewal. However, new ideas and refinements can only develop their potential when meaningfully applied and when they create actual value added. It is only then that they set standards for the future.

We have continued to set these standards based, as they are, on intelligent solutions and trail-blazing product innovations. We are continuously working to develop needs-based tools with which our customers throughout the world can work even more safely and productively. This is our vision and drive behind it to constantly deliver maximum performance.

We have been regularly distinguished for our products' innovativeness and quality. This was the case, for instance, in 2015 with the Red Dot Award and the competence prize for innovation and quality

of the Federal state of Baden-Württemberg as well as with the Eisen Award in 2012 and 2014.

This fills us with pride and equally gives us the assurance that these successes not only generate meaningful value added for ourselves but also, in particular, for our customers.

The fact that we remain true to our ideals is shown in this catalogue providing new, innovative GEDORE premium products. They include the workster workshop trolley, E-Torc Q, and the digital torque analysis wrench from GEDORE TorqueTech.

**We are moving ahead. Come and join us.**



## Local presence that delights.

With some 2,700 employees the GEDORE Group is represented in more than 70 countries worldwide. Aside from our seven production sites in Germany, we also manufacture in Austria, Great Britain, South Africa and Brazil. An international dealer network sees to the sales of our tools. In this way we ensure the best-possible presence for our customers, contact to qualified contact persons as well as short paths and rapid delivery times.

But in matters of local presence we understand more than just that. After all, it is your individual requirements which we focus on. That is why we provide you with a comprehensive service package in terms of maintenance and upkeep. Torque tools, for instance, can be calibrated in our certificated laboratory to ensure their sustained precision. The above-mentioned sustained alignment of our assortment as well as our data management services

and individual training offers for your employees all create planning reliability.

At the same time we are enthusiastic about developing and constructing tailored solutions and needs-based non-standard designs. Your requests – however special they may be – motivate us in providing you here with maximum individual quality and the associated safety-at-work.

**Test us out. Wherever and whenever.**

# Uncompromisingly to a high grade and quality.

We are one of the world's quality leaders in professional tools, workshop furnishings and non-standard solutions for industry, the trades, automotive/utility vehicles and renewable energies, amongst others. Without a doubt, this ranks the GEDORE Group amongst the leading manufacturers on the European market.

Quality is bound up with obligations – something we take seriously and consistently orientate ourselves to. This begins with selecting first-rate materials with which to manufacture our products. The extensive track record of our skilled staff and use of modern, efficient production processes have allowed us to manufacture that premium tool from high-grade material - one which has been synonymous with the GEDORE name for almost 100 years.

When manufacturing our innovative products we rely above all on proven expertise. A great many of our goods are made in a forging process, mostly drop-forging. The result is outstanding quality in terms of robustness, toughness and dimensional stability. It is not without reason that we operate one of the world's largest hydraulic double-acting hammers, which other suppliers greatly appreciate who have their forged parts made by us.

In addition, maximum ergonomics, functionality and precision are very much features of our products. The prime example for a profitable association of all these features is the ALU DREMOMETER – as ever the absolute ultimate in mechanical torque technology.

We see conscientious compliance with quality standards not only as a must, but also as an incentive to go that one step further. In many cases, our tools exceed DIN requirements. Our production processes are continually subjected to examination and auditing. We are certified in accordance with DIN ISO 9001 standards and our calibration laboratories have passed DAkkS auditing as well as other standards.

As a manufacturer we place our faith in a sustained assortment configuration. As such, we create a high degree of investment and planning reliability for you – another reason, in fact, to trust in us.

**We do our best.  
Without any reservations attached.**









GEDORE

GEDORE 1504 XL



# WORKSHOP EQUIPMENT

## TOOL TROLLEYS

>016



## ACCESSORIES

TOOL TROLLEYS

>025



## WORKBENCHES

>026



## ACCESSORIES

WORKBENCHES

>034



## FOLDING

WORKBENCH

>034



## USEFUL HELPERS FOR

TOOL TROLLEYS/  
WORKBENCHES

>035



## TOOL CABINETS

>036



## TOOL HOLDERS/ TOOL HOOKS

>037



## WORKMO

>042



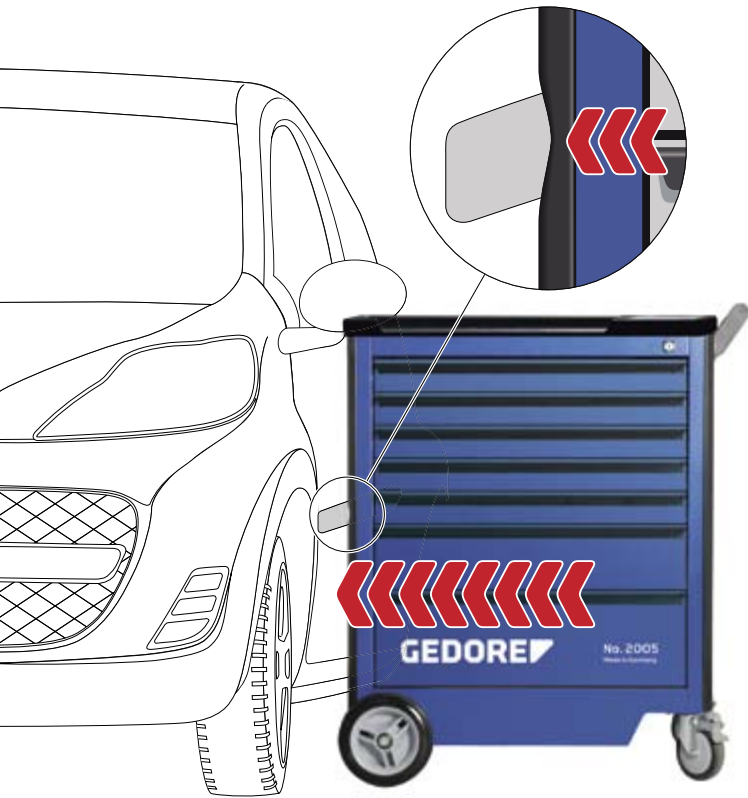
# GEDORE WORKSHOP FURNITURE

Intelligently designed - dependable under extreme use



## Best-possible quality for the highest demands placed

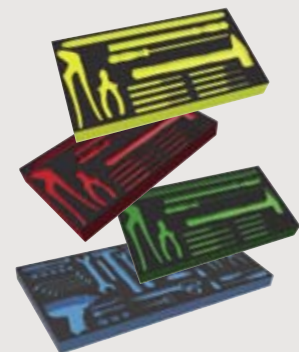
- › Use of the most up-to-date machinery and environmentally-friendly production processes
- › The basis is tightly-controlled and choice sheet steel
- › Experienced and reliable specialists vouch for precision-like processing
- › Stringent quality checks after each production step ensure a constantly high level
- › Best-possible industrial quality for those extreme levels of constant use and conditions subjected to
- › Professional service up to the development of special customised tools
- › Vertical and horizontal forces are calculated with precision
- › Unloaded weight optimisation from a finely-tuned material input
- › Robust, stable 0.88 mm thick sheet steel structure, supporting elements of a 1.00 mm metal thickness, a 2.00 mm metal thickness for the heavy-duty chassis
- › Precision spot welding ensures components stay permanently fixed
- › Tool trolleys have it all with their special GEDORE chassis and GEDORE heavy-duty wheels
- › Durable and highly resilient with stability of the highest-order



## Form and function perfection

- > Whether mobile or stationary: indispensable aids, in fact, for the rough-and-ready of workshop routine
- > Extremely robust, scratch and impact-resistant, corrosion-proof and easy to care for
- > Durable and highly resilient with stability of the highest-order
- > Numerous models to reflect use and individual requirements
- > Varied, optional accessories available for flexibly extending all the basic models
- > Specific colours (RAL) and outfits on request

## GEDORE INDIVIDUAL PRECISE - CUSTOMISED



Tidy look, uncluttered and always at hand

- > Ready to be used straight after delivery: simply unpack and screw on the manoeuvring handle
- > Whether a mobile or stationary guardian of tidiness: each tool has its own place here
- > Modular arrangement systems make daily routine that much easier (visual check/tool missing)
- > Compact tool assortments make selection easier
- > Customised equipment/tool sets in module systems and/or trolleys/benches in company design/colours

Why not create your perfection in tool orderliness in line with corporate design requests and your process specifications - We look forward to hearing from you!



# THE GEDORE TROLLEY



## Load capacity

- > The load capacity of the drawers is 40 kg
- > Models 2004\*, 2005, 1502, 1504\*, 1504.XL, 1506 XL: The bottom drawer is designed as heavy-duty drawer, load capacity 60 kg
- > \* apart from 2004 1000, 1504 1000

## Ball-bearing drawer slides

- > The ball-bearing drawer slides ensure safe and easy sliding of the drawers, even when loaded to full capacity



## Individual drawer locking

- > In addition to the central locking, each drawer has its own separate latch to prevent unwanted opening, when being moved
- > The latch is automatically released by a tilting bar when the drawer is opened
- > The single latch automatically engages when the drawer closes
- > When marked with "E" the drawers are delivered with individual drawer blocking



## Central locking

- > One central lock for all drawers and doors
- > Safe and easy handling



## Square perforation 10 x 38 mm

- > The square perforation in the side walls enable quick access to frequently used tools
- > GEDORE holders and trays are simply clipped in

## Smooth running wheel

- > Precision ball bearing

## Heel protection

- > All-round heel protection by rounded edges on the underside allows the tool trolley or workbench to be safely pulled or pushed

## Powder coating

- > This coating method guarantees a high level of corrosion protection, combined with tough scratch resistance
- > Special colours available on request

## High-performance wheel

- > High load capacity
- > Tyres made from solid rubber
- > Roller bearing
- > Resistant to abrasion

## Impact protection

- > The vertical impact protection protects the tool trolley and anything it comes into contact with from damage
- > It also protects other equipment in the workshop or vehicles from inadvertent contact

## Total brake

- > Prevents unwanted movement and turning of the wheel
- > Ensures safe parking of the tool trolley or workbench



## Tool Trolleys

# 2005 TOOL TROLLEY

### Body:

- > Dimensions: H 985 x W 775 x D 475 mm
- > Working platform in ABS, with 3 compartments for small parts
- > With handle for easy pushing, pulling and turning
- > Side walls with Euro perforation 10 x 38 mm to fix hooks and tools
- > Heel and impact protection for your safety
- > Sheet steel, corrosion resistant and scratch-proof powder-coated, GEDORE blue

### Drawers:

- > Central locking with cylinder lock
- > Wide drawers (W 640 x D 400 mm) fully extendable, removable
- > Each drawer with safety locking, single-hand operation
- > Ball-bearing guide rails
- > Can be individually equipped with lengthwise and crosswise dividers (can be ordered individually)
- > Load capacity per drawer 40 kg, bottom heavy-duty drawer 60 kg
- > Sheet steel, corrosion resistant and scratch-proof powder-coated, GEDORE blue

### GEDORE High-performance chassis:

- > Total load capacity 500 kg
- > 2 high-performance wheels on roller bearings (fixed castors Ø 200 mm)
- > 2 smooth running wheels on ball bearings (swivel castors Ø 125 mm), both with total brake
- > The GEDORE axle construction secures smooth running, manoeuvrability and track-keeping also in case of maximum loads

### Accessories:

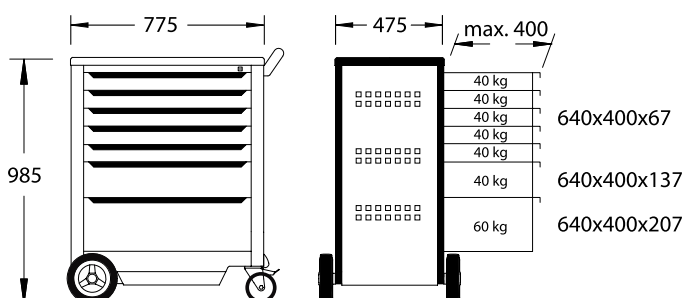
- > Length- (LD) and crosswise (CD) dividers from zinc-plated sheet steel

### Options:

- > Can be equipped with GEDORE tool modules (1500 ES/1500 CT or 2005 CT)
- > Optionally extendable with GEDORE tool chests, rear panels and tool holders
- > Further drawer combinations on request
- > Special colours and designs available on request
- > Delivery without tools and accessories



2005 0511







## 2005 VARIANTS



No.	2005 0511	2005 0511 E	2005 0321
	7 drawers: 5x type 1, H = 67 mm 1x type 2, H = 137 mm 1x type 3, H = 207 mm	7 drawers: 5x type 1, H = 67 mm 1x type 2, H = 137 mm 1x type 3, H = 207 mm	6 drawers: 3x type 1, H = 67 mm 2x type 2, H = 137 mm 1x type 3, H = 207 mm
H	985	985	985
W	775	775	775
D	475	475	475
LD	10x	10x	6x
CD	2x	2x	2x
	93.0	93.0	89.0
Code	1803018	2827379	2003546



No.	2005 0701	2005 0810
	8 drawers: 7x type 1, H = 67 mm 1x type 3, H = 207 mm	9 drawers: 8x type 1, H = 67 mm 1x type 2, H = 137 mm
H	985	985
W	775	775
D	475	475
LD	10x	15x
CD	2x	3x
	92.0	99.0
Code	2003554	2003562

2430

›24



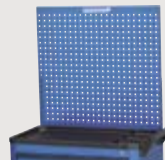
R 2004 L

›25



RT 2004 L

›25

SL 2013 / SL 3014 / SL 1912 /  
SL 1916 ›175/191/218

# 2004 TOOL TROLLEY

**Body:**

- > Dimensions: H 985 x W 775 x D 475 mm
- > Working platform in ABS, with 3 compartments for small parts
- > Storage compartment with perforated sheet (Euro perforation 10 x 38 mm), two removable drawers for small parts and door on the handle side
- > With handle for easy pushing, pulling and turning
- > Front side with Euro perforation 10 x 38 mm to fix hooks and tools
- > Heel and impact protection for your safety
- > Sheet steel, corrosion resistant and scratch-proof powder-coated, GEDORE blue

**Drawers:**

- > Central locking with cylinder lock
- > Wide drawers (W 480 x D 400 mm) fully extendable, removable
- > Each drawer and storage compartment with safety locking, single-hand operation
- > Ball-bearing guide rails
- > Can be individually equipped with lengthwise and crosswise dividers (can be ordered individually)
- > Load capacity per drawer 40 kg, bottom heavy-duty drawer 60 kg (apart from 2004 1000)
- > Sheet steel, corrosion resistant and scratch-proof powder-coated, GEDORE blue

**GEDORE High-performance chassis:**

- > Total load capacity 500 kg
- > 2 high-performance wheels on roller bearings (fixed castors Ø 200 mm)
- > 2 smooth running wheels on ball bearings (swivel castors Ø 100 mm), both with total brake
- > The GEDORE axle construction secures smooth running, manoeuvrability and track-keeping also in case of maximum loads

**Accessories:**

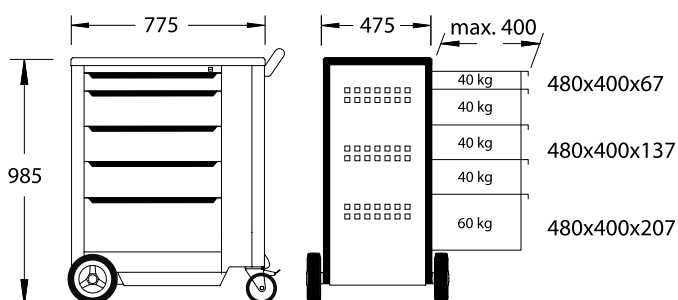
- > Length- (LD) and crosswise (CD) dividers from zinc-plated sheet steel

**Options:**

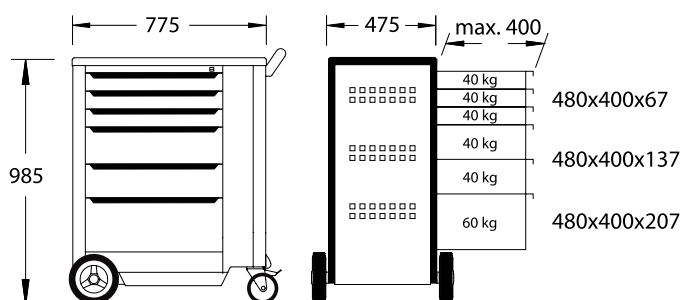
- > Can be equipped with GEDORE tool modules (1500 ES/1500 CT)
- > Optionally extendable with GEDORE tool chests, rear panels and tool holders
- > Further drawer combinations on request
- > Special colours and designs available on request
- > Delivery without tools and accessories



2004 0131



2004 0321





# 2004 VARIANTS

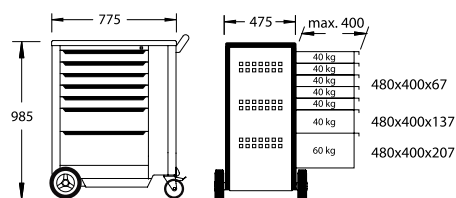


No.	2004 0131	2004 0321	2004 0511	2004 0511 E
	5 drawers: 1x type 1, H = 67 mm 3x type 2, H = 137 mm 1x type 3, H = 207 mm	6 drawers: 3x type 1, H = 67 mm 2x type 2, H = 137 mm 1x type 3, H = 207 mm	7 drawers: 5x type 1, H = 67 mm 1x type 2, H = 137 mm 1x type 3, H = 207 mm	7 drawers: 5x type 1, H = 67 mm 1x type 2, H = 137 mm 1x type 3, H = 207 mm
H	985	985	985	985
W	775	775	775	775
D	475	475	475	475
LD	3x	6x	10x	10x
CD	2x	2x	2x	2x
	75.0	82.0	84.0	84.0
Code	1640763	1640755	1640739	2827360

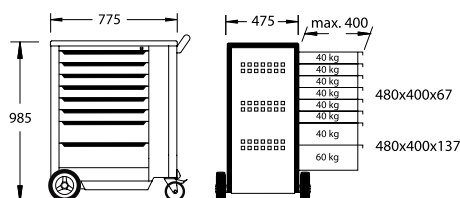


No.	2004 0701	2004 0620	2004 0810	2004 1000
	8 drawers: 7x type 1, H = 67 mm 1x type 3, H = 207 mm	8 drawers: 6x type 1, H = 67 mm 2x type 2, H = 137 mm	9 drawers: 8x type 1, H = 67 mm 1x type 2, H = 137 mm	10 drawers: 10x type 1, H = 67 mm
H	985	985	985	985
W	775	775	775	775
D	475	475	475	475
LD	10x	10x	15x	15x
CD	2x	2x	3x	3x
	86.0	88.0	91.0	94.0
Code	1640712	1640720	1640704	1640690

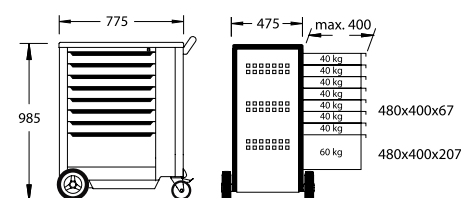
2004 0511



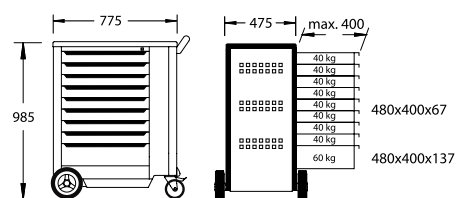
2004 0620



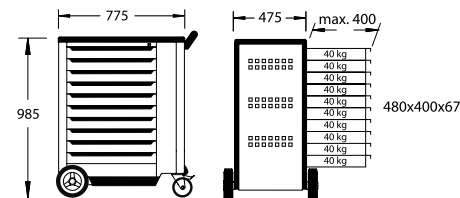
2004 0701



2004 0810



2004 1000



# WSL-L7

## TOOL TROLLEY WORKSTER SMARTLINE

with 7 drawers

**Body:**

- > Dimensions: H 1045 x W 785 x D 510 mm
- > Working platform with PP top with front flattening, anti-roll safety edge and small additional trays
- > With handle for easy pushing, pulling and turning
- > Side walls with Euro perforation 10 x 38 mm to fix hooks and tools
- > Sides rounded off – a minimum of abutting edges
- > Welded sheet steel construction, torsionally rigid, to take high loadings
- > Sheet steel, corrosion resistant and scratch-proof powder-coated

**Drawers:**

- > **Individual blocking** only one drawer can be open at a time, single-hand operation
- > Central locking with cylinder lock
- > 7 wide drawers (W 640 x D 400 mm) fully extendable
- > Ball-bearing guide rails
- > Load capacity per drawer 20 kg
- > Sheet steel, corrosion resistant and scratch-proof powder-coated

**GEDORE Chassis**

- > Total load capacity 400 kg
- > 4 smooth running wheels on ball bearings (swivel castors Ø 125 mm), one with total brake
- > Even with maximum loads: still smooth running, manoeuvrable and keeps to the track

**Options:**

- > Can be equipped with GEDORE tool modules (1500 ES, 1500 CT, 2005 CT, TS-147, TS-190, TS-308)
- > Can be individually equipped with lengthwise and crosswise dividers
- > Special colours and designs available on request
- > Delivery without tools and accessories



	H	W	D		Code	No.
7 drawers:	1045	785	510	81.0	2977311	WSL-L7
5x type 1, H = 80 mm						
2x type 2, H = 162.5 mm						



# 2525-520 TOOL TROLLEY

with 7 drawers

**Body:**

- > Dimensions: H 965 x W 720 x D 395 mm
- > Working platform in ABS, with 3 compartments for small parts
- > Storage compartment with perforated sheet (square perforation 10 x 38 mm) on the handle side
- > With handle for easy pushing, pulling and turning
- > 1 side wall with Euro perforation 10 x 38 mm to fix hooks and tools
- > All-round heel and impact protection for your safety
- > Sheet steel, corrosion resistant and scratch-proof powder-coated, GEDORE blue

**Drawers:**

- > Central locking with cylinder lock
- > 5 wide drawers (W 480 x D 325 x H 75 mm) fully extendable
- > 2 large capacity drawers (W 480 x D 325 x H 120 mm) fully extendable, for bulky parts
- > Individual drawer locking, single-hand operation
- > Ball-bearing guide rails
- > Can be individually equipped with lengthwise and crosswise dividers (can be ordered individually, not for the large capacity drawers)
- > Load capacity per drawer 40 kg
- > Sheet steel, corrosion resistant and scratch-proof powder-coated, GEDORE blue

**GEDORE High-performance chassis:**

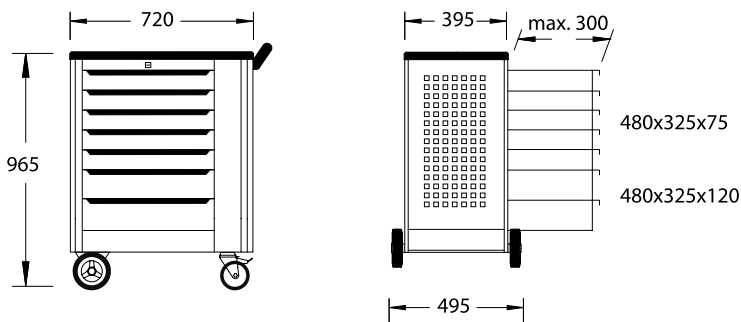
- > Total load capacity 330 kg
- > 2 high-performance wheels on roller bearings (fixed castors Ø 140 mm)
- > 2 smooth running wheels on ball bearings (swivel castors Ø 100 mm), one with total brake
- > The GEDORE trapezoidal axle construction secures smooth running, manoeuvrability and track-keeping also in case of maximum loads

**Accessories:**

- > 10-piece hook assortment
- > 8 length- (LD) and 2 crosswise (CD) dividers from zinc-plated sheet steel

**Options:**

- > Can be equipped with GEDORE tool modules (1500 ES/1500 CT)
- > Special colours and designs available on request
- > Delivery without tools and accessories



H	W	D	LD	CD		Code	No.
965	720	395	8x	2x	67.0	1587102	2525-520

# 1580 TOOL TROLLEY

with 4 drawers

**Body:**

- > Dimensions: H 930 x W 625 x D 400 mm
- > Double sided metal shutters to secure the whole internal space
- > Working platform with ABS top
- > With handle for easy pushing, pulling and turning
- > Side walls with Euro perforation 10 x 38 mm to fix hooks and tools
- > All-round heel and impact protection for your safety
- > Sheet steel, corrosion resistant and scratch-proof powder-coated, GEDORE blue

**Drawers:**

- > Central locking with cylinder lock
- > 4 wide drawers (W 480 x D 325 x H 45 mm), all drawers open either side
- > 1 deep storage at base
- > Ball-bearing guide rails, with middle and end catches
- > Can be individually equipped with lengthwise and crosswise dividers (can be ordered individually)
- > Load capacity per drawer 20 kg
- > Sheet steel, corrosion resistant and scratch-proof powder-coated, GEDORE blue

**GEDORE Chassis**

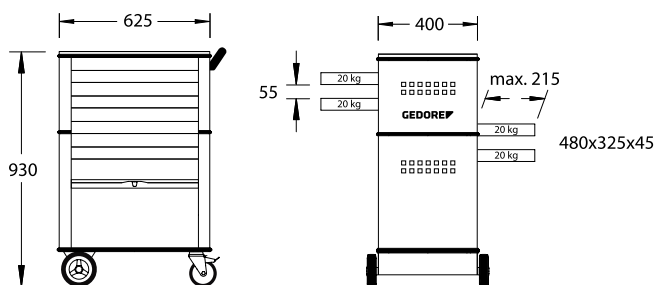
- > Total load capacity 300 kg
- > 2 high-performance wheels on roller bearings (fixed castors Ø 140 mm)
- > 2 smooth running wheels on ball bearings (swivel castors Ø 100 mm), one with total brake
- > The GEDORE trapezoidal axle construction secures smooth running, manoeuvrability and track-keeping also in case of maximum loads

**Accessories:**

- > 8 length- (LD) and 2 crosswise (CD) dividers from zinc-plated sheet steel

**Options:**

- > Can be equipped with GEDORE tool modules (1500 ES/1500 CT)
- > Optionally extendable with GEDORE tool chest 1430
- > Special colours and designs available on request
- > Delivery without tools and accessories



H	W	D	LD	CD		Code	No.
930	625	400	8x	2x	40.0	6627550	1580



# 1578 TOOL TROLLEY

with 6 drawers

**Body:**

- > Dimensions: H 930 x W 605 x D 375 mm
- > Working platform in ABS, with 3 compartments for small parts
- > With handle for easy pushing, pulling and turning
- > Heel protection for your safety
- > Sheet steel, corrosion resistant and scratch-proof powder-coated, GEDORE blue

**Drawers:**

- > Central locking with cylinder lock
- > 4 wide drawers (W 480 x D 325 x H 75 mm)
- > 1 wide drawer (W 480 x D 325 x H 120 mm)
- > 1 wide drawer (W 480 x D 325 x H 210 mm)
- > All drawers open either side
- > Can be individually equipped with lengthwise and crosswise dividers (can be ordered individually)
- > Load capacity per drawer 20 kg
- > Sheet steel, corrosion resistant and scratch-proof powder-coated, GEDORE blue

**GEDORE Chassis**

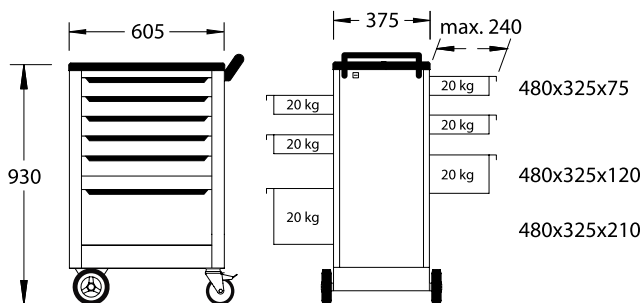
- > Total load capacity 200 kg
- > 2 high-performance wheels on roller bearings (fixed castors Ø 140 mm)
- > 2 smooth running wheels on ball bearings (swivel castors Ø 100 mm), one with total brake
- > The GEDORE trapezoidal axle construction secures smooth running, manoeuvrability and track-keeping also in case of maximum loads

**Accessories:**

- > 6 length- (LD) and 2 crosswise (CD) dividers from zinc-plated sheet steel

**Options:**

- > Can be equipped with GEDORE tool modules (1500 ES/1500 CT)
- > Special colours and designs available on request
- > Delivery without tools and accessories



H	W	D	LD	CD		Code	No.
930	605	375	6x	2x	43.5	9018140	1578

## Top Tool Chests

Suitable for all GEDORE tool trolleys with a work surface of W 625 x D 400 mm  
 Drawers fully extendable  
 Supplied with length- and crosswise dividers  
 Delivery without tools

### 1430 TOOL CHEST

> Designed particularly as top box for trolley 1580

**Body:**

- > Dimensions: H 305 x W 625 x D 400 mm
- > ABS top
- > Heel and impact protection for your safety
- > Sheet steel, corrosion resistant and scratch-proof powder-coated, GEDORE blue

**Drawers:**

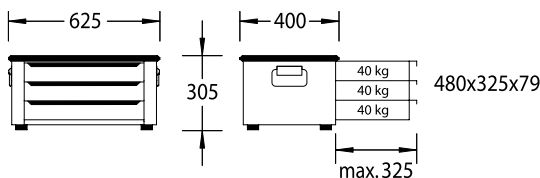
- > Central locking with cylinder lock
- > 3 wide drawers (W 480 x D 325 mm) fully extendable, removable
- > Each drawer with safety locking, single-hand operation
- > Ball-bearing guide rails
- > Can be individually equipped with lengthwise and crosswise dividers (can be ordered individually)
- > Load capacity per drawer 40 kg
- > Sheet steel, corrosion resistant and scratch-proof powder-coated, GEDORE blue

**Accessories:**

- > 6 length- (LD) and 2 crosswise dividers (CD) in zinc-plated sheet steel

**Options:**

- > Can be equipped with GEDORE tool modules (1500 ES/1500 CT)
- > Special colours and designs available on request
- > Delivery without tools and accessories



H	W	D	LD	CD		Code	No.
305	625	400	6x	2x	26.0	6618130	1430

### 2430 TOOL CHEST

**Body:**

- > Dimensions: H 345 x W 775 x D 475 mm
- > Working platform in ABS with 3 compartments for small parts
- > Sheet steel, corrosion resistant and scratch-proof powder-coated, GEDORE blue

**Drawers:**

- > Central locking with cylinder lock
- > Wide drawers (W 640 x D 400 x H 67 mm) fully extendable, removable
- > Each drawer with safety locking, single-hand operation
- > Ball-bearing guide rails
- > Can be individually equipped with lengthwise and crosswise dividers (can be ordered individually)
- > Load capacity per drawer 40 kg
- > Sheet steel, corrosion- and scratch-resistant powder-coated, GEDORE blue

**Use:**

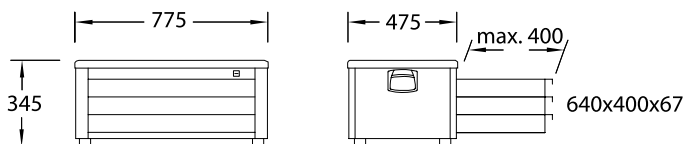
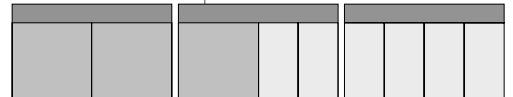
- > Designed particularly as top box for trolleys 2004, 2005

**Accessories:**

- > 6 length- (LD) and 2 crosswise dividers (CD) in zinc-plated sheet steel

**Options:**

- > Can be equipped with GEDORE tool modules (1500 ES/1500 CT)
- > Safe locking drawers on request



H	W	D	LD	CD		Code	No.
345	775	475	6x	2x	34.0	1888927	2430





## Accessories Tool Trolleys

### 2004 HP WOOD PLATE

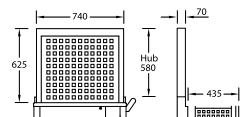
- > To fit in the plastic top, 30 mm thick, to get an additional work surface
- > Multiplex beech wood
- > For tool trolleys 2004 and 2005 and tool chest 2430
- > No. 2004 HP until 03/2014 for depth 435 mm, no. 2004 HP-14 as from 04/2014, for depth 475 mm



W	D	mm	Execution	kg	Code	No.
590	410	30	until 03/2014	5.0	1446967	2004 HP
563	409	30	as from 04/2014	5.0	2879883	2004 HP-14

### R 2004 L REAR PANEL

- > Automatically raised by two gas springs
- > Neat arrangement of tools on square perforation 10 x 38 mm
- > The complete loaded rear wall can be simply lowered
- > Central locking with cylinder lock
- > Can be attached to 2004, 2005
- > Delivery without tools



H	W	D	kg	Code	No.
768	770	116	25.0	1446169	R 2004 L

### RT 2004 L REAR PANEL BOARD

- > Square perforation 10 x 38 mm
- > Can be attached to 2004 and 2005 (as well as old models 2002 and 2003)



H	W	D	kg	Code	No.
715	765	30	11.0	2663104	RT 2004 L

### 1500 H 13 ANTI-SLIP MAT

Products sold by the metre

- > For all drawers in GEDORE tool trolleys and workbenches
- > Various areas of application: Workshop, household, car, spare time...
- > Enormous slip resistance on many different surfaces
- > Can be cut to size
- > Resistant to temperatures from -30 °C to +100 °C
- > Melting point approx. +250 °C
- > Flame resistant
- > Resistant to chemicals
- > Shock- and noise absorbing
- > Dimensions: W 475 x L 2000 mm



L m	W	kg	Code	No.
2	475	0.540	5790250	1500 H 13

## Workbenches

# 1505 MOBILE WORKBENCH

### Body:

- > Dimensions: H 900 x W 1100 x D 652 mm
- > 40 mm thick multiplex beech wood worktop, surface additionally protected by linseed oil varnish
- > Large usable storage space with shelf and door
- > Easy, safe movement with pull handle
- > Heel protection for your safety
- > Sheet steel, corrosion resistant and scratch-proof powder-coated, GEDORE blue

### Drawers:

- > Central locking with cylinder lock
- > 5 wide drawers (W 480 x D 550 mm), extendable up to 505 mm, removable
- > Each drawer with safety locking, single-hand operation
- > Ball-bearing guide rails
- > Can be individually equipped with lengthwise and crosswise dividers (can be ordered individually)
- > Load capacity per drawer 40 kg
- > Sheet steel, corrosion resistant and scratch-proof powder-coated, GEDORE blue

### GEDORE Jumbo heavy-duty chassis:

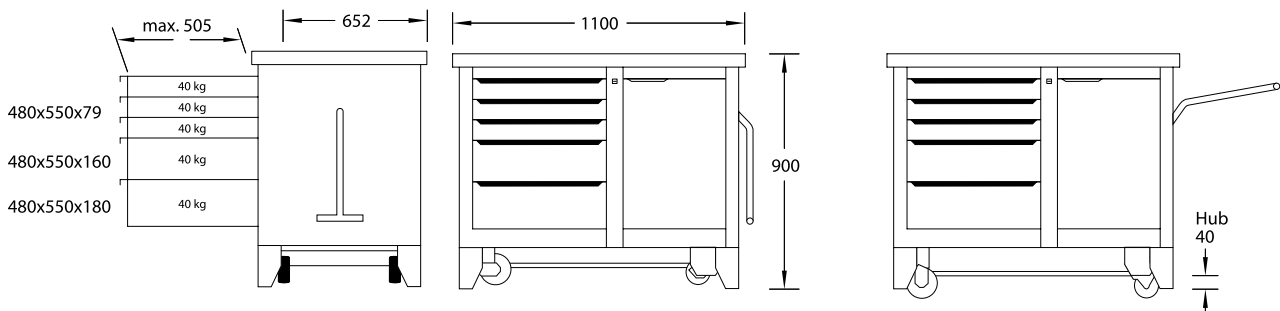
- > Total load capacity 2000 kg, 500 kg when mobile
- > 4 GEDORE wheels on roller bearings with independent wheel suspension
- > Absolutely stable standing when lowered
- > Mobile due to hydraulic raising mechanism, just lift the pull handle
- > High floor clearance

### Accessories:

- > 9 length- (LT) and 9 crosswise (QT) dividers from zinc-plated sheet steel

### Options:

- > Can be equipped with GEDORE tool modules (1500 ES/1500 CT)
- > Rear panel R 1504 L can be added
- > Delivery without tools and accessories
- > Special colours and designs available on request



Description	H	W	D	mm	LD	CD	kg	Code	No.
<b>Mobile workbench</b>	900	1100	652	40	9x	9x	138.0	6621780	1505
<b>Mobile workbench with vice</b>	900	1100	652	40	9x	9x	156.5	6621860	1505 S

R 1504 XL-L



>34

411



>554



# 1506 XL MOBILE WORKBENCH EXTRA WIDTH

**Body:**

- > Dimensions: H 985 x W 1250 x D 550 mm
- > 30 mm thick multiplex beech wood worktop, surface additionally protected by linseed oil varnish
- > With two similar drawer blocks
- > Heel protection for your safety
- > Sheet steel, corrosion resistant and scratch-proof powder-coated, GEDORE blue

**Drawers:**

- > Central locking with cylinder lock
- > Wide drawers (W 480 x D 400 mm) fully extendable, removable
- > Each drawer with safety locking, single-hand operation
- > Ball-bearing guide rails
- > Can be individually equipped with lengthwise and crosswise dividers (can be ordered individually)
- > Load capacity per drawer 40 kg, bottom heavy-duty drawers 60 kg
- > Sheet steel, corrosion resistant and scratch-proof powder-coated, GEDORE blue

**GEDORE High-performance chassis:**

- > Total load capacity 700 kg, 500 kg when mobile
- > 2 high-performance wheels on roller bearings (fixed castors Ø 200 mm)
- > 2 smooth running wheels on ball bearings (swivel castors Ø 125 mm), both with total brake
- > The GEDORE trapezoidal axle construction secures smooth running, manoeuvrability and track-keeping also in case of maximum loads

**Accessories:**

- > 4 distance modules No. 1500 ED-70 K
- > Length- (LT) and crosswise (QT) dividers from zinc-plated sheet steel

**Options:**

- > Can be equipped with GEDORE tool modules (1500 ES/1500 CT)
- > Rear panel R 1504 XL-L can be added
- > Further drawer combinations on request
- > Special colours and designs available on request
- > Delivery without tools and accessories

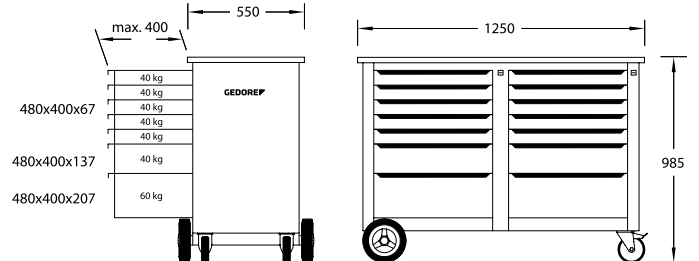


## 1506 XL VARIANTS

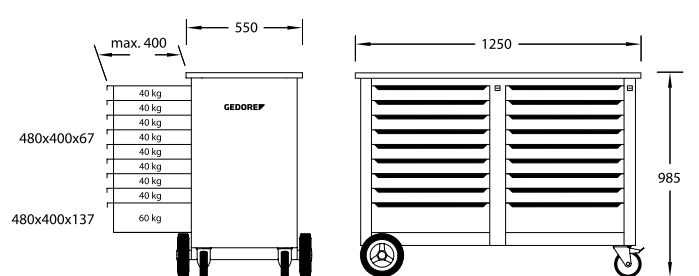


No.	1506 XL 2511	1506 XL 2810
	14 drawers: 10x type 1, H = 67 mm 2x type 2, H = 137 mm 2x type 3, H = 207 mm	18 drawers: 16x type 1, H = 67 mm 2x type 2, H = 137 mm
H	985	985
W	1250	1250
D	550	550
mm	30	30
LD	15x	15x
CD	3x	3x
	140.0	150.0
Code	2528088	2528096

1506 XL 2511



1506 XL 2810



# 1504 MOBILE WORKBENCH

**Body:**

- > Dimensions: H 985 x W 1100 x D 550 mm
- > 30 mm thick multiplex beech wood worktop, surface additionally protected by linseed oil varnish
- > Large storage space with shelf and door
- > Heel protection for your safety
- > Sheet steel, corrosion resistant and scratch-proof powder-coated, GEDORE blue

**Drawers:**

- > Central locking with cylinder lock
- > Wide drawers (W 480 x D 400 mm) fully extendable, removable
- > Each drawer with safety locking, single-hand operation
- > Ball-bearing guide rails
- > Can be individually equipped with lengthwise and crosswise dividers (can be ordered individually)
- > Load capacity per drawer 40 kg, bottom heavy-duty drawer 60 kg (apart from no. 1504 1000)
- > Sheet steel, corrosion resistant and scratch-proof powder-coated, GEDORE blue

**GEDORE High-performance chassis:**

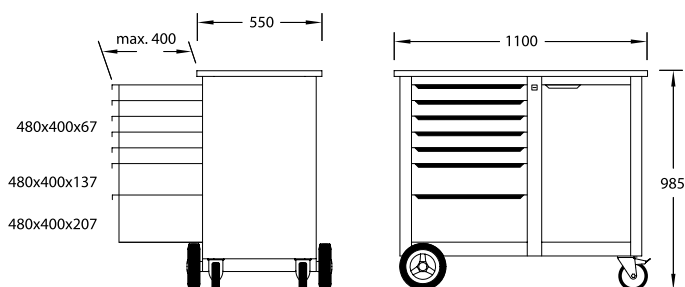
- > Total load capacity 700 kg, 500 kg when mobile
- > 2 high-performance wheels on roller bearings (fixed castors Ø 200 mm)
- > 2 smooth running wheels on ball bearings (swivel castors Ø 125 mm), both with total brake
- > The GEDORE trapezoidal axle construction secures smooth running, manoeuvrability and track-keeping also in case of maximum loads

**Accessories:**

- > 4 distance modules no. 1500 ED-70 K
- > Length- (LT) and crosswise (QT) dividers from zinc-plated sheet steel

**Options:**

- > Can be equipped with GEDORE tool modules (1500 ES/1500 CT)
- > Rear panel no. R 1504 L or RT 1504 L can be added
- > Further drawer combinations on request
- > Special colours and designs available on request
- > Delivery without tools and accessories





# 1504 VARIANTS

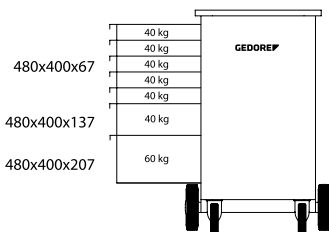


Code	6622830	6623050	1814958
	7 drawers: 5x type 1, H = 67 mm 1x type 2, H = 137 mm 1x type 3, H = 207 mm	7 drawers: 5x type 1, H = 67 mm 1x type 2, H = 137 mm 1x type 3, H = 207 mm	6 drawers: 3x type 1, H = 67 mm 2x type 2, H = 137 mm 1x type 3, H = 207 mm
Description	Mobile workbench with 7 drawers	Mobile workbench with 7 drawers and vice	Mobile workbench with 6 drawers
H	985	985	985
W	1100	1100	1100
D	550	550	550
LD	10x	10x	6x
CD	2x	2x	2x
	103.0	112.5	96.0
No.	1504 0511	1504 0511 S	1504 0321

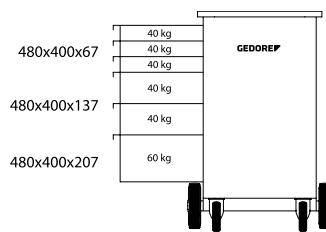


Code	1814931	1814923	1814915
	8 drawers: 7x type 1, H = 67 mm 1x type 3, H = 207 mm	9 drawers: 8x type 1, H = 67 mm 1x type 2, H = 137 mm	10 drawers: 10x type 1, H = 67 mm
Description	Mobile workbench with 8 drawers	Mobile workbench with 9 drawers	Mobile workbench with 10 drawers
H	985	985	985
W	1100	1100	1100
D	550	550	550
LD	10x	15x	15x
CD	2x	3x	3x
	99.0	106.0	110.0
No.	1504 0701	1504 0810	1504 1000

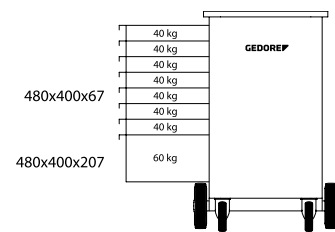
1504 0511 + 1504 0511 S



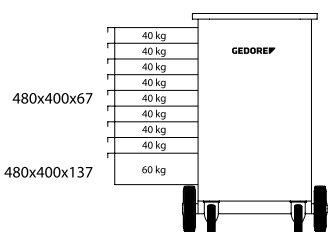
1504 0321



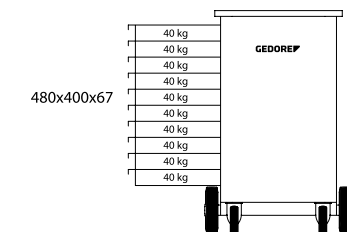
1504 0701



1504 0810



1504 1000



# 1504 XL

## MOBILE WORKBENCH EXTRA WIDTH

**Body:**

- > Dimensions: H 985 x W 1250 x D 550 mm
- > 30 mm thick multiplex beech wood worktop, surface additionally protected by linseed oil varnish
- > Large usable storage space with shelf and door
- > Heel protection for your safety
- > Sheet steel, corrosion resistant and scratch-proof powder-coated, GEDORE blue

**Drawers:**

- > Central locking with cylinder lock
- > 1 XL drawer (W 1055 x D 400), 6 wide drawers (W 640 x D 400 mm) fully extendable, removable
- > Each drawer with safety locking, single-hand operation
- > Ball-bearing guide rails
- > Can be individually equipped with lengthwise and crosswise dividers (can be ordered individually)
- > Load capacity per drawer 40 kg, bottom heavy-duty drawer 60 kg
- > Sheet steel, corrosion resistant and scratch-proof powder-coated, GEDORE blue

**GEDORE High-performance chassis:**

- > Total load capacity 700 kg, 500 kg when mobile
- > 2 high-performance wheels on roller bearings (fixed castors Ø 200 mm)
- > 2 smooth running wheels on ball bearings (swivel castors Ø 125 mm), both with total brake
- > The GEDORE trapezoidal axle construction secures smooth running, manoeuvrability and track-keeping also in case of maximum loads

**Accessories:**

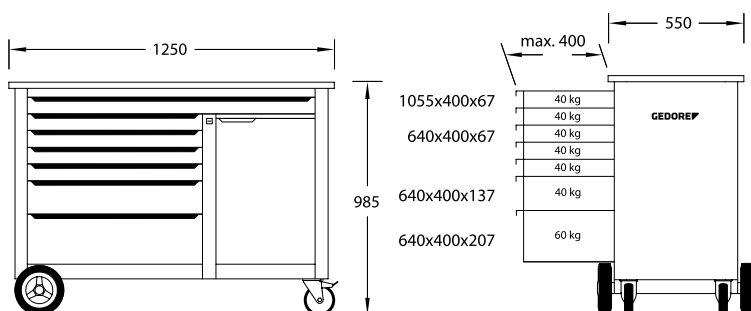
- > 10 length- (LT) and 2 crosswise (QT) dividers from zinc-plated sheet steel

**Options:**

- > Can be equipped with GEDORE tool modules (1500 ES/1500 CT or 2005 CT)
- > Rear panel R 1504 XL-L can be added
- > Further drawer combinations on request
- > Special colours and designs available on request
- > Delivery without tools and accessories



H	W	D	mm		Code	No.
985	1250	550	30	120.0	1988468	1504 XL





# BR 1504 MOBILE WORKBENCH

with self raising rear panel

**Body:**

- > Dimensions: H 985 x W 1100 x D 550 mm
- > 30 mm thick multiplex beech wood worktop, surface additionally protected by linseed oil varnish
- > Large usable storage space with shelf and door
- > With rear panel, square perforation 10 x 38 mm to fix hooks and tools, with lowering mechanism, can be raised by 2 gas springs
- > Heel protection for your safety
- > Sheet steel, corrosion resistant and scratch-proof powder-coated, GEDORE blue

**Drawers:**

- > Central locking with cylinder lock
- > Wide drawers (W 480 x D 400 mm) fully extendable, removable
- > Each drawer with safety locking, single-hand operation
- > Ball-bearing guide rails
- > Can be individually equipped with lengthwise and crosswise dividers (can be ordered individually)
- > Load capacity per drawer 40 kg, bottom heavy-duty drawer 60 kg
- > Sheet steel, corrosion resistant and scratch-proof powder-coated, GEDORE blue

**GEDORE High-performance chassis:**

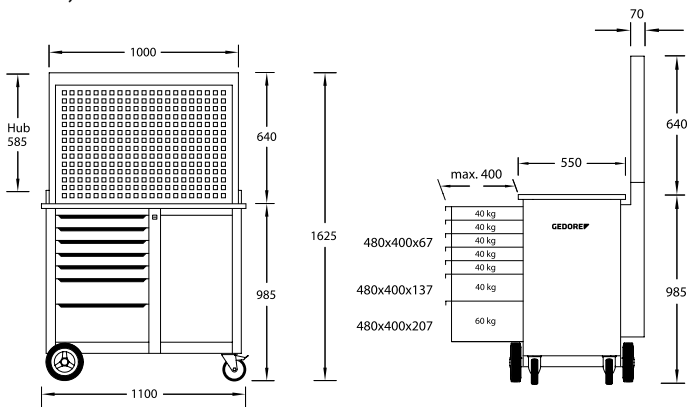
- > Total load capacity 700 kg, 500 kg when mobile
- > 2 high-performance wheels on roller bearings (fixed castors Ø 200 mm)
- > 2 smooth running wheels on ball bearings (swivel castors Ø 125 mm), both with total brake
- > The GEDORE trapezoidal axle construction secures smooth running, manoeuvrability and track-keeping also in case of maximum loads

**Accessories:**

- > 2 distance modules No. 1500 ED-70 K
- > 10 length- (LT) and 2 crosswise (QT) dividers from zinc-plated sheet steel

**Options:**

- > Can be equipped with GEDORE tool modules (1500 ES/1500 CT)
- > Further drawer combinations on request
- > Special colours and designs available on request
- > Delivery without tools and accessories



Description	H	W	D	mm	LD	CD	mm	Code	No.
<b>Workbench with rear panel</b>	985	1100	550	30	10x	2x	128.0	6624450	BR 1504 0511 L
<b>Workbench with rear panel + hook assortment</b>	985	1100	550	30	10x	2x	130.0	6623990	BR 1504 0511 LH
<b>Workbench with rear panel + vice</b>	985	1100	550	30	10x	2x	142.5	6624370	BR 1504 0511 S



# BR 1500 LH WORKBENCH WITH TOOL CABINET

**Body workbench:**

- > Dimensions: H 900 x W 2000 x D 875 mm
- > 40 mm thick multiplex beech wood worktop, surface additionally protected by linseed oil varnish
- > Large storage space with shutter
- > Heel protection for your safety
- > Sheet steel, corrosion resistant and scratch-proof powder-coated, GEDORE blue

**Body cabinet:**

- > Dimensions: H 890 x W 1810 x D 170 mm
- > Shutter with cylinder lock
- > Rear panel with square perforation 10 x 38 mm to fix hooks and tools
- > Sheet steel, corrosion resistant and scratch-proof powder-coated, GEDORE blue
- > Shutter from sheet steel, corrosion resistant and scratch-proof powder-coated, GEDORE blue

**Drawers workbench:**

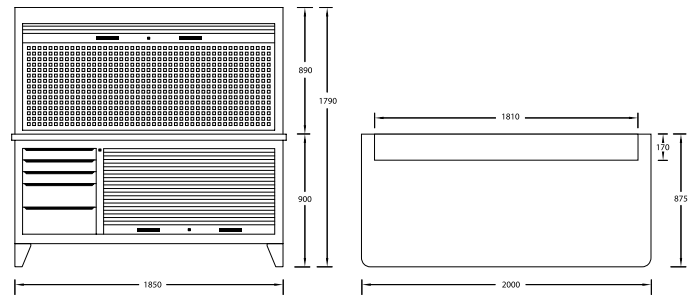
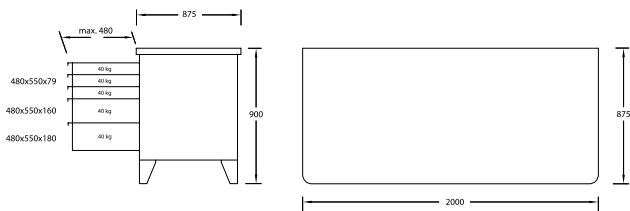
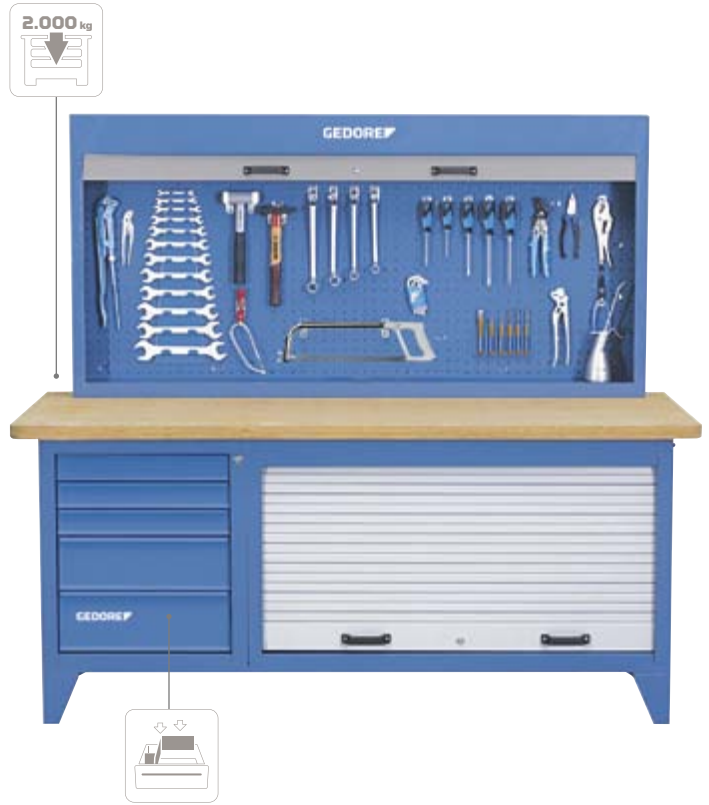
- > Separate central locking of drawers and shutter with cylinder locks
- > 5 wide drawers (W 480 x D 550 mm), extendable up to 505 mm, removeable
- > Ball-bearing guide rails
- > Can be individually equipped with lengthwise and crosswise dividers (can be ordered individually)
- > Load capacity per drawer 40 kg
- > Sheet steel, corrosion resistant and scratch-proof powder-coated, GEDORE blue
- > Total load capacity (workbench) 2000 kg

**Accessories:**

- > 85-piece hook assortment 1500 HS 23
- > 9 length- (LT) and 9 crosswise (QT) dividers from zinc-plated sheet steel

**Options:**

- > Can be equipped with GEDORE tool modules (1500 ES/1500 CT)
- > Special colours and designs available on request
- > Delivery without tools and accessories



## BR 1500 VARIANTS



No.	BR 1500 LH	B 1500 L	R 1500 L
Description	Workbench with tool cabinet	Workbench without tool cabinet	Tool cabinet with blind, empty
H	1790	900	890
W	2000	2000	1810
D	875	875	170
mm	40	40	
LD	9x	9x	
CD	9x	9x	
kg	203.7	166.0	78.0
Code	6618210	6618050	6617910





# 1502

## MOBILE WORKBENCH

### Body:

- > Dimensions: H 875 x W 950 x D 550 mm
- > 25 mm thick multiplex beech wood worktop, surface additionally protected by linseed oil varnish
- > Large, easily-accessible spaces for bulky parts
- > Heel protection for your safety
- > Sheet steel, corrosion resistant and scratch-proof powder-coated, GEDORE blue

### Drawers:

- > Central locking with cylinder lock
- > 6 wide drawers (W 480 x D 400 mm) fully extendable, removable
- > Each drawer with safety locking, single-hand operation
- > Ball-bearing guide rails
- > Can be individually equipped with lengthwise and crosswise dividers (can be ordered individually)
- > Load capacity per drawer 40 kg, bottom heavy-duty drawer 60 kg
- > Sheet steel, corrosion resistant and scratch-proof powder-coated, GEDORE blue

### GEDORE High-performance chassis:

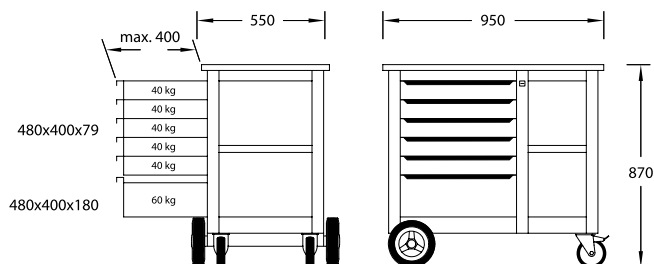
- > Total load capacity 700 kg, 500 kg when mobile
- > 2 high-performance wheels on roller bearings (fixed castors Ø 200 mm)
- > 2 smooth running wheels on ball bearings (swivel castors Ø 125 mm), both with total brake
- > The GEDORE trapezoidal axle construction secures smooth running, manoeuvrability and track-keeping also in case of maximum loads

### Accessories:

- > 2 distance modules No. 1500 ED-70 K
- > 10 length- (LT) and 2 crosswise (QT) dividers from zinc-plated sheet steel

### Options:

- > Can be equipped with GEDORE tool modules (1500 ES/1500 CT)
- > Special colours and designs available on request
- > Delivery without tools and accessories



Description	H	W	D	mm	LD	CD		Code	No.
<b>Mobile workbench</b>	870	950	550	25	10x	2x	78.0	6620540	1502
<b>Mobile workbench with vice</b>	870	950	550	25	10x	2x	85.0	6620620	1502 S

## Folding workbench

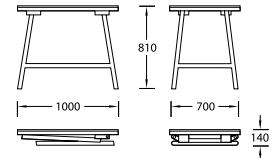
### B 1525 FOLDING WORKBENCH

**Body:**

- > Dimensions: H 810/140 x W 1000 x D 700 mm
- > Strong beech wood worktop with zinc-plated steel edge protector - corrosion resistant
- > Stable folding, space-saving and mobile

**GEDORE Base:**

- > Total load capacity 500 kg
- > Steel tube, corrosion resistant and scratch-proof powder-coated, GEDORE blue
- > Delivery without tools and accessories

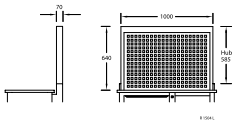


H	W	D	mm	kg	Code	No.
810	1000	700	30	32.0	6622910	B 1525

## Accessories for Workbenches

### R 1504 L REAR PANEL

- > Can be attached to workbench 1504 or 1505
- > Automatically raised by two gas springs, lockable with cylinder lock
- > Neat arrangement of tools
- > Square perforation 10 x 38 mm
- > Dimensions: H 640 x W 1000 x D 70 mm
- > GEDORE blue
- > Execution LH with hook assortment No. 1504 HS



Description	H	W	D	kg	Code	No.
<b>Rear panel empty</b>	640	1000	70	28.0	6623800	R 1504 L
<b>Rear panel empty with hook assortment</b>	640	1000	70	30.0	6624020	R 1504 LH

### R 1504 XL-L REAR PANEL

- > Can be attached to workbench 1504 XL, 1506 XL
- > Automatically raised by two gas springs, lockable with cylinder lock
- > Neat arrangement of tools
- > Square perforation 10 x 38 mm
- > Dimensions: H 640 x W 1190 x D 70 mm
- > GEDORE blue
- > Execution LH with hook assortment No. 1504 HS



Description	H	W	D	kg	Code	No.
<b>Rear panel empty</b>	640	1190	70	29.0	2251787	R 1504 XL-L
<b>Rear panel empty with hook assortment</b>	640	1190	70	31.0	2251795	R 1504 XL-LH

### RT 1504 L REAR PANEL BOARD

- > Can be attached to workbenches 1504 and 1505
- > Square perforation 10 x 38 mm
- > GEDORE blue
- > Including attachment material



H	W	D	kg	Code	No.
715	1025	30	5.0	2477025	RT 1504 L

## Accessories Tool Trolleys / Workbenches

1500 H 13  
ANTI-SLIP MAT

Products sold by the metre

- > For all drawers in GEDORE tool trolleys and workbenches
- > Various areas of application: Workshop, household, car, spare time...
- > Enormous slip resistance on many different surfaces
- > Can be cut to size
- > Resistant to temperatures from -30 °C to +100 °C
- > Melting point approx. +250 °C
- > Flame resistant
- > Resistant to chemicals
- > Shock- and noise absorbing
- > Dimensions: W 475 x L 2000 mm



L m	W		Code	No.
2	475	0.540	5790250	1500 H 13

## Drawer Partitions

E-1500 - E-2500  
LENGTHWISE DIVIDER

slotted

- > In two different heights
- > In five different lengths for varying drawer depths
- > In zinc-plated sheet steel



H	L	for use with		Code	No.
42	317	1580	0.136	5325840	E-1580/14
60	320	1430	0.190	5326570	E-2500/62
60	395	2005, 1504 XL (type 1), 1506 XL (type 1), 2430	0.235	1886932	E-2005 KL/42
60	397	1502 (1-5), 1504 (1-6), 2004 (type 1)	0.208	5326490	E-1504 KL/57
60	548	B 1500 (1-3), 1505 (1-3)	0.312	5315880	E-B 1500/38

E-2005 CT  
LENGTHWISE DIVIDER

without slots

- > To fix the modules 2005 CT2

H		Code	No.
40	0.248	2104601	E-2005 CT H-40

E-1580  
CROSSWISE DIVIDER

- > Usage: 1580
- > In three different lengths, to fit the lengthwise dividers
- > In zinc-plated sheet steel



E-1580/11-40

L	H		Code	No.
40	40	0.012	1394878	E-1580/11-40
80	40	0.024	5325760	E-1580/11-80
120	40	0.036	5326140	E-1580/11-120

E-3000  
CROSSWISE DIVIDER

- > Usage: 1430, B 1500 (1-3), 1502 (1-5), 1504 (1-6), 1504 XL, 1505 (1-3), 1506 XL (type 1), 2004 (type 1), 2005 (type 1), 2430
- > In zinc-plated sheet steel



L	H		Code	No.
80	55	0.035	5326060	E-3000/37-80
120	55	0.050	5326220	E-3000/37-120

## Tool Cabinets

### 1400 L TOOL CABINET

**Body:**

- > Dimensions: H 970 x W 650 x D 250 mm
- > Sheet steel, corrosion resistant and scratch-proof powder-coated, GEDORE blue
- > With storage, three drawers and fixed tool holders, e.g. for set S 1400
- > With loose modules for sockets, ratchets, extensions, etc.

**Doors:**

- > Central locking with cylinder lock

**Drawers:**

- > 2 drawers (W 478 x D 210 x H 46 mm)
- > 1 drawer (W 478 x D 210 x H 72 mm)
- > Sheet steel, corrosion resistant and scratch-proof powder-coated, GEDORE blue

**Options:**

- > Special colours and designs available on request
- > Delivery without tools and accessories



H	W	D		Code	No.
970	650	250	33.0	6612600	1400 L

### 1401 L TOOL CABINET

**Body:**

- > Dimensions: H 970 x W 650 x D 250 mm
- > Sheet steel, corrosion resistant and scratch-proof powder-coated, GEDORE blue
- > Doors and body with Euro perforation 10 x 38 mm to fix hooks
- > With three drawers
- > With loose modules for sockets, ratchets, extensions, etc.

**Doors:**

- > Central locking with cylinder lock

**Drawers:**

- > 2 drawers (W 478 x D 210 x H 46 mm)
- > 1 drawer (W 478 x D 210 x H 72 mm)
- > Sheet steel, corrosion resistant and scratch-proof powder-coated, GEDORE blue

**Options:**

- > Special colours and designs available on request
- > Delivery without tools and accessories



Compilation	H	W	D		Code	No.
<b>Cabinet empty</b>	970	650	250	39.0	5610610	1401 L
<b>Cabinet 1401 L</b>	970	650	250	34.0	6611550	1401 LH
<b>+ hook assortment 1500 HS 11</b>						

## Tool Panels

### R 1500 L TOOL CABINET

- > Suitable as workbench top

**Body:**

- > Dimensions: H 890 x W 1810 x D 170 mm
- > Sheet steel, corrosion resistant and scratch-proof powder-coated, GEDORE blue
- > Rear wall with Euro perforation 10 x 38 mm to fix hooks

**Shutter:**

- > Central locking with cylinder lock
- > Sheet steel, corrosion resistant and scratch-proof powder-coated, GEDORE blue

**Options:**

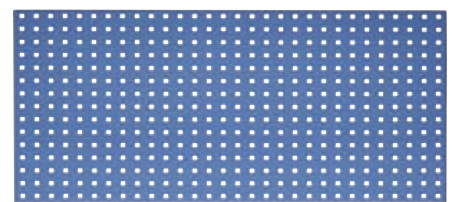
- > Special colours and designs available on request
- > Delivery without tools and accessories



Compilation	H	W	D		Code	No.
<b>Cabinet empty</b>	890	1810	170	78.0	6617910	R 1500 L
<b>Cabinet R 1500 L</b>	890	1810	170	81.2	6619100	R 1500 LH
<b>+ hook assortment 1500 HS 23</b>						

### 1450 L TOOL PANEL

- > Proposed tool assortment serves as the basic equipment for workshop, garage or hobby
- > Further panels can be added in either direction, with special spacers for wall fitting
- > Made from solid sheet steel 1.5 mm thick, all 4 edges are bevelled
- > Euro perforation 10 x 38 mm
- > Dimensions: L 987 x H 493 mm
- > GEDORE blue powder-coated
- > Tools not supplied



L	H		Code	No.
987	493	5.5	5617110	1450 L



## Tool holders / Tool hooks

Suitable for GEDORE tool trolleys and panels with square perforation 10 x 38 mm

### 1500 H 4 BASE PLATE

- > With M6 thread for universal fixing
- > Suitable for perforated panels with square perforation 10 x 38 mm
- > Zinc-plated



kg	Code	No.
0.026	1446185	1500 H 4

### 1500 H 2 - 1500 H 3 SPRING CLAMP

- > Suitable for perforated panels with square perforation 10 x 38 mm
- > Zinc-plated



1500 H 2-16

L mm	Ø	kg	Code	No.
31	10-12	0.025	2008351	1500 H 2-10
31	12-16	0.026	5803760	1500 H 2-13
31	16-18	0.027	2008378	1500 H 2-16
44	23-29	0.028	5803840	1500 H 3

### 1500 H 0 TOOL HOOK

straight mandrel

- > Ø 4 mm especially suitable for GEDORE screwdrivers with hanging hole
- > Suitable for perforated panels with square perforation 10 x 38 mm
- > Zinc-plated



L mm	Ø	kg	Code	No.
50	4	0.028	5803410	1500 H 0-50

### 1500 H 18 TOOL HOOK

straight mandrel

- > Suitable for perforated panels with square perforation 10 x 38 mm
- > Zinc-plated
- > Delivery without tools



1500 H 18-50

L mm	Ø	kg	Code	No.
50	6	0.034	2008386	1500 H 18-50
100	6	0.046	2008394	1500 H 18-100
150	6	0.056	2008408	1500 H 18-150

### 1500 H 5 PAPER ROLL HOLDER

- > Suitable for perforated panels with square perforation 10 x 38 mm



L mm	Ø	kg	Code	No.
250	6	0.094	5798660	1500 H 5

### 1500 H 1 TOOL HOOK

inclined hook end

- > Suitable for perforated panels with square perforation 10 x 38 mm
- > Zinc-plated



L mm	Ø	kg	Code	No.
50	4	0.028	5803680	1500 H 1-50

### 1500 H 29 TOOL HOOK

inclined hook end

- > Suitable for perforated panels with square perforation 10 x 38 mm
- > Zinc-plated
- > Delivery without tools



1500 H 29-50

L mm	Ø	kg	Code	No.
50	6	0.034	2008572	1500 H 29-50
100	6	0.046	2008580	1500 H 29-100

### 1500 H 30 TOOL HOOK

for sockets

- > Suitable for perforated panels with square perforation 10 x 38 mm
- > Zinc-plated



L <sub>1</sub>	L <sub>2</sub>	Ø	kg	Code	No.
15	40	6	0.034	2008599	1500 H 30

### 1500 H 20 TOOL HOLDER

vertical hook end

- > Suitable for perforated panels with square perforation 10 x 38 mm
- > Zinc-plated
- > Delivery without decoration



1500 H 20-35


L mm	Ø	kg	Code	No.
35	6	0.034	1879162	1500 H 20-35
75	6	0.046	2008440	1500 H 20-75
135	6	0.056	2008459	1500 H 20-135

## 1500 H 39 TOOL HOLDER

for pliers

- > Suitable for perforated panels with square perforation 10 x 38 mm
- > Zinc-plated
- > Delivery without tools



	Code	No.
0.065	2656582	1500 H 39


## 1500 H 19 TOOL HOLDER

double, straight mandrel

- > Suitable for perforated panels with square perforation 10 x 38 mm
- > Zinc-plated
- > Delivery without tools



1500 H 19-50

↳ mm ▷	∅		Code	No.
50	6	0.074	2008416	1500 H 19-50
100	6	0.098	2008424	1500 H 19-100
150	6	0.118	2008432	1500 H 19-150


## 1500 H 21 TOOL HOLDER

double, vertical hook end

- > For hammers and ratchets
- > Suitable for perforated panels with square perforation 10 x 38 mm
- > Zinc-plated
- > Delivery without tools



1500 H 21-50

↳ mm ▷	∅		Code	No.
35	6	0.076	2008475	1500 H 21-35
50	6	0.080	1879170	1500 H 21-50
75	6	0.090	2008483	1500 H 21-75


## 1500 H 22 TOOL HOLDER

for pliers

- > Suitable for perforated panels with square perforation 10 x 38 mm
- > Zinc-plated
- > Delivery without tools




1500 H 22-55

W	D		Code	No.
35	20	0.062	2008491	1500 H 22-35
55	20	0.066	1879189	1500 H 22-55

## 1500 H 31 ROUND HOLDER

- > Suitable for perforated panels with square perforation 10 x 38 mm
- > Zinc-plated
- > Delivery without tools




W	L		Code	No.
27	65	0.068	2008602	1500 H 31

## 1500 H 23 MACHINE HOLDER FOR BATTERY SCREWDRIVER

- > Suitable for perforated panels with square perforation 10 x 38 mm
- > Zinc-plated
- > Delivery without tools



1500 H 23-40


∅		Code	No.
40	0.068	2008513	1500 H 23-40
60	0.060	1879197	1500 H 23-60

## 1500 H 33 TUBE HOLDER

- > Suitable for perforated panels with square perforation 10 x 38 mm
- > Hook width 35 mm
- > Powder-coated
- > Delivery without decoration



1500 H 33-60

W	H	D	∅		Code	No.
58	67	74	60	0.114	2008629	1500 H 33-60
58	96	114	100	0.156	2008637	1500 H 33-100


## 1500 H 24 TOOL HOLDER

for screwdrivers

- > Suitable for perforated panels with square perforation 10 x 38 mm
- > Powder-coated
- > Delivery without tools



1500 H 24-6


Execution		Code	No.
<b>for 6 pieces</b>	0.100	1879200	1500 H 24-6
<b>for 12 pieces</b>	0.400	2008548	1500 H 24-12

## 1500 H 34-14 DRILL-BIT HOLDER

for 14 pieces

- > Suitable for perforated panels with square perforation 10 x 38 mm
- > With 14 holes, diam.: 2 ea. 3.0 4.2 6.5 7.5 8.5 16.5 mm, 1 ea. 10.5 12.5 mm
- > Powder-coated
- > Delivery without tools



W	H	D		Code	No.
200	60	37	0.200	2008645	1500 H 34-14



## 1500 H 27 SOCKET HOLDER

- > With 11 holes
- > Hole diameter 10x 25 mm and 1x 27.5 mm
- > Suitable for perforated panels with square perforation 10 x 38 mm
- > Powder-coated
- > Delivery without tools



W	H	D		Code	No.
352	60	54	0.500	1920634	1500 H 27

## 1500 H 25-3 TOOL HOLDER

for 3 cans

- > Suitable for perforated panels with square perforation 10 x 38 mm
- > Powder-coated
- > Delivery without decoration



W	Ø		Code	No.
300	70	0.600	1879219	1500 H 25-3

## 1500 H 37 SPANNER HOLDER

- > Suitable for perforated panels with square perforation 10 x 38 mm
- > For 8 spanners, suitable for no. 1 B, 2, 4, 6, 7, 7 R, 7 UR
- > Powder-coated
- > Delivery without tools



W	H	D		Code	No.
124	66	145	0.220	2008696	1500 H 37

## 1500 H 38 SPANNER HOLDER

- > Suitable for perforated panels with square perforation 10 x 38 mm
- > For 10 spanners, suitable for no. 2, 2, 6
- > Powder-coated
- > Delivery without tools



1500 H 38

W	H	D		Code	No.
75-147	227	60	0.400	1920626	1500 H 38

## 1500 H 28 SHELF

- > Suitable for perforated panels with square perforation 10 x 38 mm
- > Powder-coated



W	H	D		Code	No.
496	168	303	3.000	1933191	1500 H 28

## 1500 H 9 TRAY

- > A handy place to keep tools that are needed constantly
- > Suitable for perforated panels with square perforation 10 x 38 mm

1500 H 9-75



W	H	D		Code	No.
456	50	75	0.854	1446924	1500 H 9-75
456	50	100	0.854	5792540	1500 H 9-100

## 1500 H 10 TRAY

- > With four partitions, for often-needed small parts
- > Suitable for perforated panels with square perforation 10 x 38 mm



W	H	D		Code	No.
456	50	100	0.840	5792620	1500 H 10-100

## VS 19 H TOOL TRAY

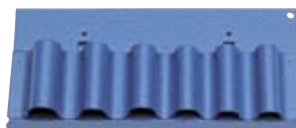
- > For sockets
- > Suitable for perforated panels with square perforation 10 x 38 mm
- > Dimensions: W 570 x D 25-45 mm
- > In sheet steel, GEDORE blue



W	D		Code	No.
570	25-45	0.550	5152640	VS 19 H

## VS 245 H CHISEL HOLDER EMPTY

- > For 6 chisels
- > Suitable for perforated panels with square perforation 10 x 38 mm
- > Dimensions: W 195 x H 95 x D 22 mm
- > In sheet steel, GEDORE blue



W	H	D		Code	No.
195	95	22	0.300	5456270	VS 245 H

## VS 1582 STORAGE TRAY

- > Suitable for perforated panels with square perforation 10 x 38 mm



W	H	D		Code	No.
320	100	90	1.118	5150270	VS 1582-3

# OVERVIEW CONTENTS HOOK ASSORTMENTS 1500 HS

No.	Code	No. Code kg	1500	1500	1500	1500	1500	1504	1585	1500	1500	1500	1500
			HS 11	HS 14	HS 17	HS 23	HS 28	HS	HS	HS-1150	HS-1006	HS-1023	HS-1090
			<b>5799980</b>	<b>5802010</b>	<b>5804060</b>	<b>5804220</b>	<b>2008742</b>	<b>5802440</b>	<b>5801550</b>	<b>2656892</b>	<b>2656884</b>	<b>2656906</b>	<b>2656914</b>
			2,680	2,388	3,514	4,958	1,768	1,958	0,654	3,056	19,516	3,269	8,284
1500 H 0-50	<b>5803410</b>		14	6	15	17		13		3	5	5	11
1500 H 1-50	<b>5803680</b>		23	20	32	43		13	10	12	39	35	15
1500 H 2-10	<b>2008351</b>									4		5	6
1500 H 2-13	<b>5803760</b>		1	6	4	12			5				
1500 H 3	<b>5803840</b>		2	1	2	10			5	1	11	2	2
1500 H 9-75	<b>1446924</b>										19	2	7
1500 H 20-35	<b>1879162</b>						4						
1500 H 20-75	<b>2008440</b>						2						
1500 H 20-135	<b>2008459</b>						2						
1500 H 21-35	<b>2008475</b>						6						
1500 H 22-35	<b>2008491</b>						2						
1500 H 23-40	<b>2008513</b>						1						
1500 H 24-6	<b>1879200</b>						1						
1500 H 27	<b>1920634</b>				1								
1500 H 29-50	<b>2008572</b>						3			17	10		3
1500 H 29-50	<b>2008580</b>						3						
1500 H 30	<b>2008599</b>										30		
1500 H 31	<b>2008602</b>						2						
1500 H 34-14	<b>2008645</b>						1						
1500 H 37	<b>2008696</b>						1						4
1500 H 38	<b>1920626</b>		1		1	1							
1500 H 39	<b>2656582</b>									2	6	4	6
VS 245 H	<b>5456270</b>		1	1	2	1		2		6			
VS 19 H	<b>5152640</b>			1	1	1							
H 6-8 B	<b>5079110</b>			1									
H 6-12 B	<b>5079540</b>							1					

## H 6 HOLDER

> For double open ended spanner sets no. 6

> Suitable for perforated panels with square perforation 10 x 38 mm



H 6-8 B



H 6-12 B



H 6-8 L



H 6-12 L



E-PH 6-12 L

Description	W	H	D	kg	Code	No.
Sheet metal holder, empty for 8 spanners no. 6	390	140	15	0.372	5079110	H 6-8 B
Sheet metal holder, empty for 12 spanners no. 6	600	170	15	0.655	5079540	H 6-12 B
Plastic holder, empty for 8 spanners no. 6	250	70	57	0.154	5070080	H 6-8 L

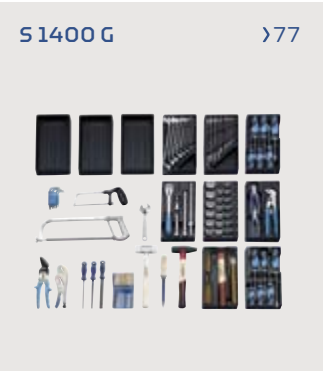
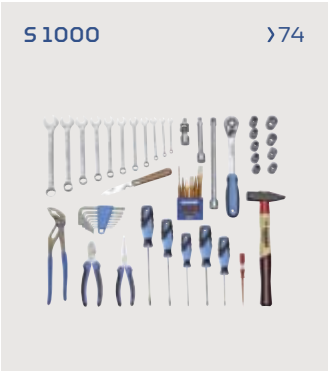
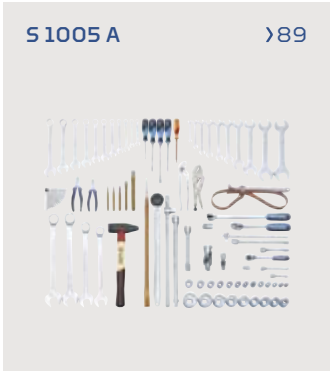
Description	W	H	D	kg	Code	No.
Plastic holder, empty for 12 spanners no. 6	325	100	57	0.270	5070160	H 6-12 L
Plastic holder, empty for 8 spanners no. 6				0.018	5073930	E-PH 6-8 L
Plastic holder, empty for 12 spanners no. 6				0.038	5074070	E-PH 6-12 L





Suitable for perforated panels with square perforation 10 x 38 mm

1500 HS-1016	1500 HS-1000	1500 HS-1002	1500 HS-1400 GA	1500 HS-1005 A	1500 HS-1008	1500 HS-1151	1500 HS-1007	1500 HS-1400 Z	1500 HS-1093	1500 HS-1004	1500 HS-1092	1500 HS-1050	1500 HS-1024	1500 HS-1151 A	1500 HS-1091	1500 HS-1025
2656922	2656930	2656949	2656957	2656965	2656973	2656981	2657015	2657023	2657031	2657058	2657066	2657074	2657082	2657090	2657104	265711
0,845	1,109	4,526		1,985	9,087	1,662	6,215	0,907	0,817	1,927		0,996	1,887	1,620		0,908
	6	1	18	5	20	4	19	3	9	13	9	5	16	5	12	8
18	15	31	17	19	27	13	44	4	8	28	12	10	26	19	6	16
6	2	16		9	10	1	13	6	1	6		2	3	1	1	1
	5	6	6	12	7	5	7	7	2	6	1	1	11	5	1	4
					7		3									
	4	8	7	8	3	9	7	8		4	2	2	2	2		1
	9	15	19	23	21	13	23	1	2	20	1		6	15		
			24	1	3	1	1							1		
3	3	6	5	4	9	3	14	1	4	5	2	2	4	3	3	1
		8	14			1								1		



# GEDORE WORKMO - THE MOBILE ARRANGEMENT-, TRANSPORT- AND WORKING SYSTEM

For maximum flexibility and safety



- > Combines transport, order and work – ergonomically and efficiently
- > Thanks to the modular design quickly disassembled into portable units
- > Multifunctional – with system
- > Ideal for all who need a flexible and mobile workplace
- > Individual modules or directly as a workstation
- > The intelligent way to work mobile and professionally!
- > Light and load secured

### Individual

- > WorkMo adapts exactly to the requirements of your individual working day
- > With the foam configurator the tool equipment can be arranged individually

### Compatible

- > with the Sortimo® L-BOXX® range
- > with the GEDORE tool modules 1500 ES/1500 CT

### Flexible

- > Expandable at any time (with castors, worktop etc.)
- > For further system components see Sortimo®

### Sturdy

- > Robust handling – lockable - durable
- > With rounded plastic edges as impact and scratch protection

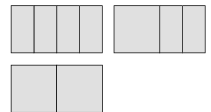
- +** **Light**
  - > Low weight due to aluminum-plastic mix
  - > Ergonomic working heights

- +** **Drawer equipment**
  - > Ideal to equip WorkMo components with GEDORE tools – Be aware of the respective drawer widths:

- > B2 = maximum 2x 1/3 modules oder 1x 2/3 module



- > B3 = maximum 4x 1/3 modules oder 2x 2/3 modules



1110 WM 221 + 1110 WM 24



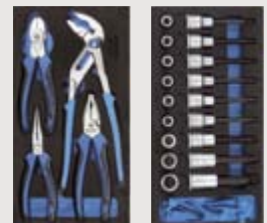
Not included



### CT-MODULES

>105

- > For individual arrangement



**NEW**

## 1110 WMW-2 TOOL TROLLEY WORKMO W2

- > Modular tool trolley
- > Consisting of: 1110 WM 24, 1110 WM 221, 1110 WMR 23 and 1110 WMHP 2
- > Mobile as complete unit or portable single units
- > Ideal for transportation from the workshop to changing workplaces
- > 6 drawers fully extendable suited for GEDORE 1500 ES/1500 CT modules
- > For 2x 1/3 modules or 1x 2/3 module
- > One compartment with locking device for GEDORE L-BOXX® 136 no. 1100 L (not included)
- > Light and sturdy aluminum-plastic mix
- > Mobile with roller skids with 4 swivel castors, 2 of them with total brake
- > Wooden worktop for assembly work
- > **Compatible with Sortimo® vehicle equipments and load securing**
- > **Crash testet**
- > Dimensions: W 526 x D 396 x H 1172 mm
- > **Weight advantage** (up to 50 % lighter than comparable solutions!)



optional: 1100 L L-BOXX® 136  
(not included)

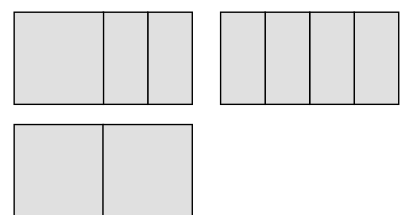
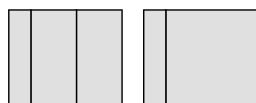
**NEW**

## 1110 WMW-3 TOOL TROLLEY WORKMO W3

- > Modular tool trolley
- > Consisting of: 1110 WM 34, 1110 WM 321, 1110 WMR 23 and 1110 WMHP 3
- > Mobile as complete unit or portable single units
- > Ideal for transportation from the workshop to changing workplaces
- > 6 drawers fully extendable suited for GEDORE 1500 ES/1500 CT modules
- > For 4x 1/3 modules or 2x 2/3 modules
- > One compartment with locking device for GEDORE L-BOXX® 136 no. 1100 L and GEDORE S-BOXX® no. 1110 WMSB 3 (both not included)
- > Light and sturdy aluminum-plastic mix
- > Mobile with roller skids with 4 swivel castors, 2 of them with total brake
- > Wooden worktop for assembly work
- > **Compatible with Sortimo® vehicle equipments and load securing**
- > **Crash testet**
- > Dimensions: W 789 x D 396 x H 1172 mm
- > **Weight advantage** (up to 50 % lighter than comparable solutions!)



optional: 1100 L L-BOXX® 136 / 1110 WMSB 3 S-BOXX®  
(not included)



W	D	H	kg	Code	No.
526	396	1172	42.6	2954435	1110 WMW-2

W	D	H	kg	Code	No.
789	396	1172	52.8	2954443	1110 WMW-3

## GEDORE WorkMo - System components

### 1110 WM 24 TOOL BOX MODULE WORKMO W2

**NEW**

4 drawers H6

- > 4 drawers fully extendable suited for GEDORE 1500 ES/1500 CT modules
- > Light and sturdy aluminum-plastic mix
- > Compatible with Sortimo® vehicle equipments and load securing
- > Crash testet
- > Load capacity per drawer 30 kg
- > Dimensions: W 526 x D 396 x H 506 mm
- > Drawer size inside: W 418 x D 314 x H 89 mm



W	D	H		Code	No.
526	396	506	18.6	2954311	1110 WM 24

### 1110 WM 221 TOOL BOX MODULE WORKMO W2

**NEW**

2 drawers H6, compartment for L-BOXX®

- > 2 drawers fully extendable suited for GEDORE 1500 ES/1500 CT modules
- > One compartment with locking device for GEDORE L-BOXX® 136 no. 1100 L (not included)
- > Light and sturdy aluminum-plastic mix
- > Compatible with Sortimo® vehicle equipments and load securing
- > Crash testet
- > Load capacity per drawer 30 kg
- > Dimensions: W 526 x D 396 x H 506 mm
- > Drawer size inside: W 418 x D 314 x H 89 mm



W	D	H		Code	No.
526	396	506	17.2	2954338	1110 WM 221

### 1110 WM 34 TOOL BOX MODULE WORKMO W3

**NEW**

4 drawers H6

- > 4 drawers fully extendable suited for GEDORE 1500 ES/1500 CT modules
- > Light and sturdy aluminum-plastic mix
- > Compatible with Sortimo® vehicle equipments and load securing
- > Crash testet
- > Load capacity per drawer 60 kg
- > Dimensions: W 789 x D 396 x H 506 mm
- > Drawer size inside: W 660 x D 314 x H 89 mm



W	D	H		Code	No.
789	396	506	24.1	2954346	1110 WM 34

### 1110 WM 321 TOOL BOX MODULE WORKMO W3

**NEW**

2 drawers H6, compartment for L-BOXX® + S-BOXX®

- > 2 drawers fully extendable suited for GEDORE 1500 ES/1500 CT modules
- > One compartment with locking device for GEDORE L-BOXX® 136 no. 1100 L and GEDORE S-BOXX® no. 1110 WMSB 3 (both not included)
- > Light and sturdy aluminum-plastic mix
- > Compatible with Sortimo® vehicle equipments and load securing
- > Crash testet
- > Load capacity per drawer 60 kg
- > Dimensions: W 789 x D 396 x H 506 mm
- > Drawer size inside: W 660 x D 314 x H 89 mm



W	D	H		Code	No.
789	396	506	20.1	2954354	1110 WM 321



## 1110 WMHP 2 WOOD PLATE

**NEW**

for WorkMo W2

- > 20 mm thick multiplex beech wood worktop
- > Add to WorkMo boxes W2 to get an additional work surface
- > Dimensions: W 571 x D 426 x H 41 mm



W	D	H		Code	No.
571	426	41	3.8	2954362	1110 WMHP 2

## 1110 WMHP 3 WOOD PLATE

**NEW**

for WorkMo W3

- > 20 mm thick multiplex beech wood worktop
- > Add to WorkMo boxes W3 to get an additional work surface
- > Dimensions: W 834 x D 426 x H 41 mm



W	D	H		Code	No.
834	426	41	5.6	2954370	1110 WMHP 3

## 1110 WMS 23 LOCKING SYSTEM

**NEW**

for WorkMo W2+W3

- > Protects drawers and BOXX<sup>®</sup>es against extraction
- > Secures the tools against unauthorised access



	Code	No.
0.920	2954389	1110 WMS 23

## 1110 WMR 23 ROLLER SKIDS, PAIR

**NEW**

for WorkMo W2+W3

- > Makes the tool box module mobile
- > 4 swivel castors, 2 with total brake



	Code	No.
3.0	2954397	1110 WMR 23

## 1110 WMT 23 DIVIDER SET

**NEW**

for WorkMo drawers W2+W3

- > To divide the drawers
- > 3 lengthwise dividers and mounting brackets



	Code	No.
0.250	2954419	1110 WMT 23

## 1110 WMSB 3 S-BOXX<sup>®</sup> W3

**NEW**

with window

- > Viewing window for a quick visual check of the contents
- > Ideal for the storage of expendables, such as screws etc.
- > Load capacity 12 kg
- > Dimensions: W 147 x D 351 x H 153 mm



W	D	H		Code	No.
147	351	153	0.500	2954427	1110 WMSB 3



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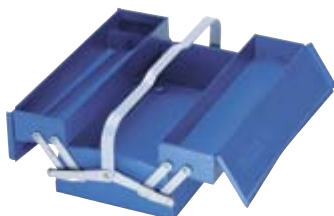
# MOBILE TOOL STORAGE



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## TOOL BOXES

>048



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## TOOL CHESTS

>049



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## TOOL CASES/ ROLLER TOOL CASES

>051



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## GEDORE SORTIMO®

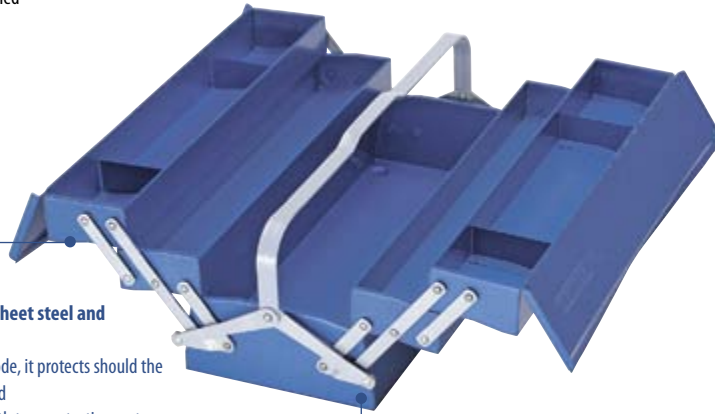
>054



Tool Boxes

# TOOL BOXES

- > With riveted joints
- > Compartments to be fully pulled out
- > Great stability even if only one side is opened
- > Made from sheet steel, in GEDORE blue

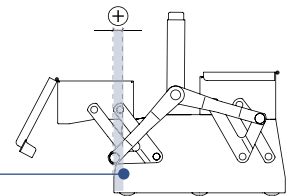


- +**
- > **Made of electrolytically zinc-plated sheet steel and therefore suitable for outdoors**
  - > As the zinc coating acts as a sacrificial anode, it protects should the other protective coating become damaged
  - > Optimum corrosion-proofing achieved with two protective coats, zinc and powder coating



**+** The GEDORE PLUS for (stand) safety - especially with a one-sided pull-out

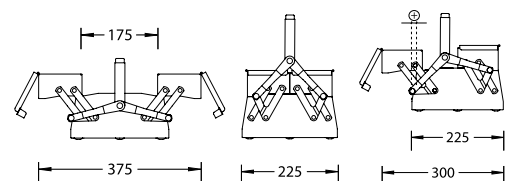
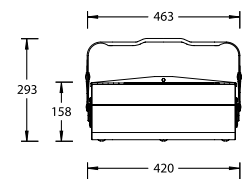
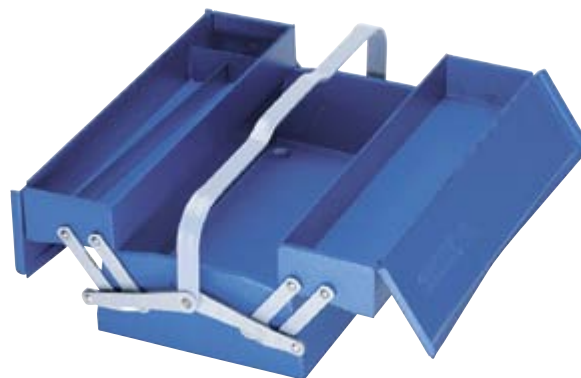
The GEDORE PLUS for storage space as against the traditional design



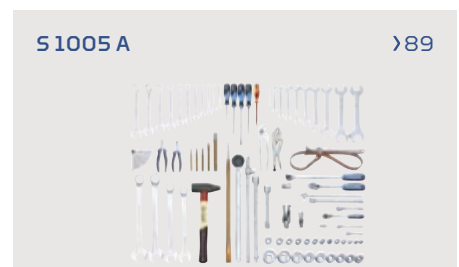
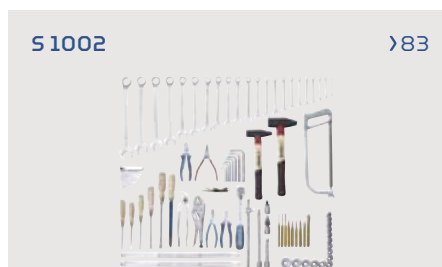
## 1263 L TOOL BOX

3 compartments

- > With riveted joints
- > Compartments to be fully pulled out
- > Great stability even if only one side is opened
- > GEDORE blue powder-coated
- > Dimensions: H 158 x W 420 x D 225 mm
- > Particularly suitable for tool assortments S 1150, S 1151 and S 1151 A



H	W	D		Code	No.
158	420	225	4.0	6608250	1263 L

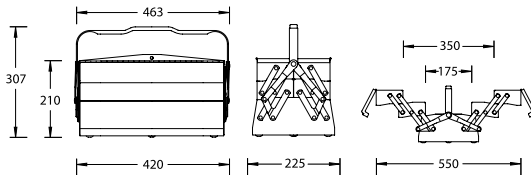
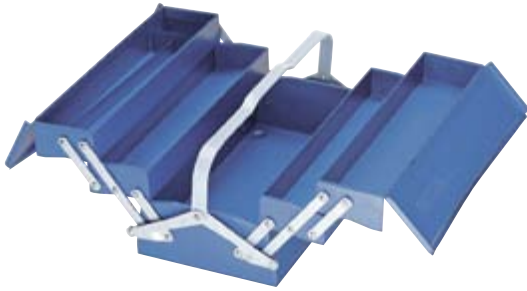




## 1265 L TOOL BOX

5 compartments

- > With riveted joints
- > Compartments to be fully pulled out
- > Great stability even if only one side is opened
- > GEDORE blue powder-coated
- > Dimensions: H 210 x W 420 x D 225 mm
- > Particularly suitable for tool assortments S 1151 and S 1151 A

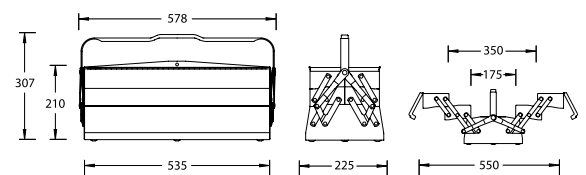
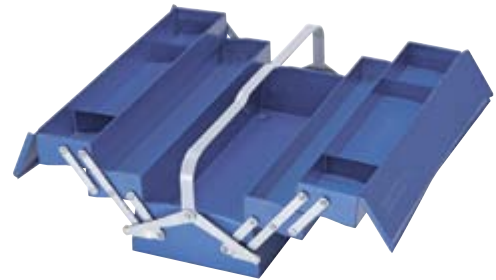


H	W	D		Code	No.
210	420	225	5.2	6609060	1265 L

## 1335 L TOOL BOX

5 compartments, long pattern

- > With riveted joints
- > Compartments to be fully pulled out
- > Great stability even if only one side is opened
- > GEDORE blue powder-coated
- > Dimensions: H 210 x W 535 x D 225 mm
- > Particularly suitable for tool assortments S 1024, S 1025, S 1151 and S 1151 A



H	W	D		Code	No.
210	535	225	6.3	6610580	1335 L

### Tool Chests

- Central locking
- Drawers fully extendable

## 1410 L TOOL CHEST

- > With three large and three small drawers and carrying tray
- > All drawers fully extendable on runners
- > Particularly suitable for tool assortments S 1002 and S 1005 A
- > Made from sturdy sheet steel, fitted with central lock
- > In GEDORE blue
- > Dimensions: H 364 x W 663 x D 308 mm
- > Max. loading 75 kg



H	W	D		Code	No.
364	663	308	28.0	6614300	1410 L

## 1420 L TOOL CHEST

- > With three large drawers and carrying tray
- > All drawers fully extendable on runners
- > Particularly suitable for tool assortments S 1002 and S 1005 A
- > Made from sturdy sheet steel, fitted with central lock
- > In GEDORE blue
- > Dimensions: H 298 x W 610 x D 265 mm
- > Max. loading 75 kg



H	W	D		Code	No.
298	610	265	20.0	6615700	1420 L




## Tool Cases

### 1370 Z TOOL BOX

- › In special zinc-plated sheet steel for optimum protection against corrosion
- › The manufacture using pressure-joint technology means great rigidity
- › With removable small-parts compartment ES 1370 Z
- › Fitted with carrying strap E-1370 in nylon fabric with shoulder protector
- › Max. loading 25 kg




H	W	D		Code	No.
<b>224</b>	554	202	5.0	1497677	1370 Z
<b>69</b>	179	167	0.6	1497634	ES 1370 Z
			0.1	5600300	E-1370

### 1440 Z TOOL BOX JUMBO

zinc-plated

- › In special zinc-plated sheet steel for the heavy everyday-use
- › Optimum corrosion protection, spray water protected
- › Manufactured in pressure jointing technique, guarantees highest sturdiness
- › Robust metal fittings and protected hinges
- › Stopper to hold the lid open
- › Wide carrying handles
- › Max. loading 150 kg
- › Lockable through padlock
- › Lined interior
- › Removable tray for small parts (ES 1440)



H	W	D		Code	No.
<b>320</b>	698	387	17.0	6628280	1440 Z-70
<b>340</b>	841	427	21.0	6628360	1440 Z-83
<b>440</b>	918	537	30.0	6629170	1440 Z-91
<b>320</b>	998	387	22.0	6629250	1440 Z-100

### 1441 Z TRANSPORT FRAME

zinc-plated

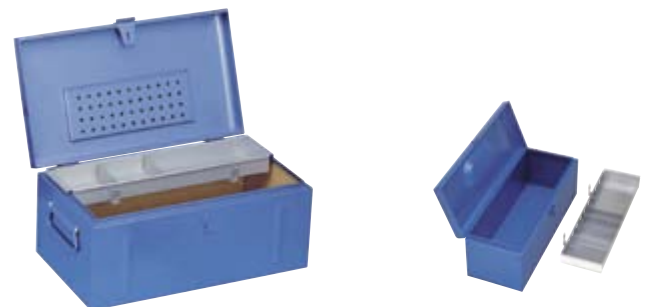
- › In special zinc-plated sheet steel
- › Makes the tool boxes JUMBO 1440 / 1440 Z mobile
- › With 4 castors, 2 of them with brake
- › Delivery dismantled, for self-assembly



H	W	D		Code	No.
<b>135</b>	697	386	4.9	1497766	1441 Z-70
<b>135</b>	840	426	5.4	1497774	1441 Z-83
<b>135</b>	917	536	6.0	1497782	1441 Z-91
<b>135</b>	997	386	5.8	1497790	1441 Z-100

### 1440 TOOL BOX JUMBO

- › Sheet steel construction with strong handles (apart from 1440-45, 1440-64)
- › In GEDORE blue, waterproof
- › Strong joints, handles and stopper to hold the lid open
- › Special lining, with document partition and removable tray for small parts ES 1440
- › Please order separately transport frame 1441 Z
- › Special finishes available on request
- › 1440-45 without small parts tray
- › Supported load 1440-70, -83, -91, -100 up to 400 kg without using the fold-down handles. When lifting, static supporting power of the fold-down handles max. 150 kg



H	W	D		Code	No.
<b>230</b>	450	230	4,0	6612440	1440-45
<b>230</b>	640	230	7,0	6611040	1440-64
<b>320</b>	698	387	19,0	6616510	1440-70
<b>340</b>	841	427	23,0	6616780	1440-83
<b>440</b>	918	537	32,0	6616860	1440-91
<b>320</b>	998	387	25,0	6616940	1440-100

## WK 1000 L TOOL CASE EMPTY

- > From impact-resistant blown polypropylene, resistant to oil and acid and extremes of weather
- > With foam insert
- > Dimensions: W 437 x D 379 x H 160 mm
- > Delivery without tools



W	D	H		Code	No.
430	360	140	1.6	5600220	WK 1000 L

## WK 1091 L TOOL CASE EMPTY

- > From eco-friendly tanned cowhide
- > Carefully processed with strong industrial seams
- > Base insert from zinc-plated sheet steel
- > Edges reinforced with aluminium angle brackets, metal parts durable riveted
- > With feet to protect sensitive surfaces
- > Front part can be lowered for quick access to the tools, with two key locks to prevent inadvertent opening
- > Removable carrying strap with shoulder protector and sturdy carrying handle
- > Anti-theft protection due to two lockable notches, delivery includes two keys
- > Document partition
- > Interior measurements 430 x 200 x 290 mm



W	D	H		Code	No.
430	200	290	4.2	1953729	WK 1091 L

## WK 1015 L MOBILE TOOL CASE

empty

- > Handle with user-friendly telescopic grip
- > Widely spaced wheels with two inline castors for pulling without tipping
- > Sturdy aluminium frame with edge protector, trays of impact-resistant ABS plastic
- > When open, the case lid is prevented from locking unintentionally by the safety lid holder snapping into place
- > A4 document compartment in the lid
- > Removable tool panel with 22 tool pockets at the front and back in the lid
- > Removable cover for bottom tray with 15 tool pockets
- > Variably divisible bottom tray
- > Lockable with two-tilt cylinder locks and a combination lock
- > Comfort handle
- > Inside dimensions: 485 x 350 x 195 mm
- > Max. loading: 30 kg



W	D	H		Code	No.
485	350	195	8.0	2822326	WK 1015 L

## WK 1018 L TOOL CASE LARGE

empty

- > Sturdy aluminium frame with edge protector, trays of impact-resistant ABS plastic
- > When open, the case lid is prevented from locking unintentionally by the safety lid holder snapping into place
- > A4 document compartment in the lid
- > Removable tool panel with 22 tool pockets at the front and back in the lid
- > Removable cover for bottom tray with 15 tool pockets
- > Variably divisible bottom tray
- > Lockable with two-tilt cylinder locks and a combination lock
- > Comfort handle
- > Inside dimensions: 480 x 370 x 180 mm
- > Max. loading: 30 kg



W	D	H		Code	No.
480	370	180	6.0	2822342	WK 1018 L

S 1000

>69



1091

>71



S 1090

>75



# GEDORE L-BOXX® POWERED BY SORTIMO®

## The challenge: The perfect "To Go" workshop

- › GEDORE's Sortimo® transport box system relies on a tried-and-tested mobility standard
- › The perfect alliance for intelligent, efficient process and project design planning



## The terms of reference

- › Tools, machines and material must be easily, safely, quickly and conveniently transported to the place of use i.e. in a preferably resources-saving manner.
- › Lengthy loading times must be avoided at all cost - guaranteed load securing a pre-condition here!

## For your safety

- › Did you know that in an accident a screwdriver develops an 8 kg impacting load?
- › And in no way is a screwdriver a heavy tool! It is easy to envisage how a screwdriver or hammer turns into a projectile in an accident!
- › The GEDORE L-BOXX®es are fully compatible with Sortimo® vehicle fittings
- › GEDORE L-BOXX® quality is constantly examined on the basis of the strict Sortimo® directives. Sortimo® has its quality endorsed through crash tests organised by TÜV.
- › If it comes to the worst, at least the tools stay where they belong - securely in their GEDORE L-BOXX®

## Your advantage

- › Intelligent order systems
- › Flexible, modular and individual
- › Ideal for mobile deployments
- › Diverse and highly efficient
- › Quick accessing of tools - perfect organisation
- › Transport box standard - e.g. compatible with electrical tool manufacturers
- › Guaranteed safety

## The solution:

### The GEDORE "MIXX AND CLICK" kit

- > Well-conceived tool assortments and tool modules in the Sortimo®-Transportbox system
- > GEDORE L-BOXX® 136 with front grip and GEDORE i-BOXX® 72 powered by Sortimo® form the tried-and-tested basis for GEDORE "MIXX AND CLICK"
- > Every GEDORE L-BOXX® is supplied with a tool card in the lid for order and more storage space
- > Perfectly suited for mobile deployments - that's the "To Go" workshop

#### Multiple compatibility and thus extremely flexible and highly individualised:

- > The GEDORE "MIXX AND CLICK" kit features untold combinations based on your requirements and also on the modules of other manufacturers (e.g. electrical tools /Bosch)
- > This in combination with other Sortimo® components (transport boxes and system components) gives rise to a well organised mobile workshop.
- > Perfectly tailored to your personal needs.



### i-Modules Individual modules



You haven't found the right tool modules for yourself? Have a word with us - we manufacture the complete module individually to your requests and needs.

### GEDORE L-BOXX® 136, powered by Sortimo®

- > A sturdy construction
- > Easy and convenient transportation of the tool to the place of use
- > Impact-resistant ABS plastic
- > Standard lid handle to carry the L-BOXX® horizontally
- > Additional kind-to-hands front grip to carry the L-BOXX® vertically
- > Spray-protected
- > With tool card for order and more storage space
- > Easy-click system: Practical connector for two and more L-BOXX®es, for secure grip and easy transport
- > No-problem integration in vehicles with the TÜV-tested Sortimo® vehicle fittings



## 1100-01

### GEDORE L-BOXX® 136

### WITH ASSORTMENT

### MECHANIC

58 pieces

- > Suitable for tradesmen
- > A selection of essential tools
- > With Check-Tool insert for quick check of completeness
- > 1100 CT2-01 to retrofit existing L-BOXX®es 136



1100-01



1100 CT2-01

Contents	⚖️	Code	No.	Contents	⚖️	Code	No.
1993 U-20 1990-10 1995 19 10 11 12 13 14 15 16 17 18 19 21 22 24 60 CP 8 142 10 JC 8316-160 JC 8133-180 JC 600 H-500 110-256 45 S TFK 649 E-649 F 0063-08 H 42-10 SCL 43 TX-80 VDE 2170-2160 PH-077 4615 3 4533-2 8728 + 1100 L	8.3	2658194	1100-01	1993 U-20 1990-10 1995 19 10 11 12 13 14 15 16 17 18 19 21 22 24 60 CP 8 142 10 JC 8316-160 JC 8133-180 JC 600 H-500 110-256 45 S TFK 649 E-649 F 0063-08	6.8	2936828	1100 CT2-01
Description	⚖️	Code	No.	Description	⚖️	Code	No.
Foam insert 2/2 L-BOXX 136, empty	0.200	2690055		Foam insert 2/2 L-BOXX 136, empty	0.200	2690055	EI-1100-01

## 1100-02

### GEDORE L-BOXX® 136

### WITH ASSORTMENT

### ELECTRICIAN

36 pieces

- > Particularly suitable for electricians
- > A selection of essential tools
- > With Check-Tool insert for quick check of completeness
- > 1100 CT2-02 to retrofit existing L-BOXX®es 136



1100 CT2-02



1100-02

Contents	⚖️	Code	No.	Contents	⚖️	Code	No.
110-256 112-2510 600 H-500 60 CP 8 142 10 JC 8097 8133-180 JC VDE 8314-160 H VDE 8132-200 H VDE 8132 AB-200 H VDE 8098-160 H VDE 8094 4528 4629 0175-06 H 42-10 VDE 2170-2160 PH-077 4615 3 VDE 4616 45 E 4533-2 + 1100 L	7.7	2658208	1100-02	110-256 112-2510 600 H-500 60 CP 8 142 10 JC 8097 8133-180 JC VDE 8314-160 H VDE 8132-200 H VDE 8132 AB-200 H VDE 8098-160 H VDE 8094 4528 4629 0175-06	6.1	2936836	1100 CT2-02
Description	⚖️	Code	No.	Description	⚖️	Code	No.
Foam insert 2/2 L-BOXX 136, empty	0.200	2690047		Foam insert 2/2 L-BOXX 136, empty	0.200	2690047	EI-1100-02

# 1100-03 GEDORE L-BOXX® 136 WITH ASSORTMENT INSTALLATION

44 pieces

- > Particularly suitable for professions in the plumbing, heating and air conditioning
- > A selection of essential tools
- > With Check-Tool insert for quick check of completeness
- > With two stacked Check-Tool inserts
- > 1100 CT2-03-100 B or -600 D to retrofit existing L-BOXX®es 136



1100 CT2-03-100 B



1100 CT2-03-600 D



1100-03



Contents	kg	Code	No.
<b>7 R 10 13 17 19 24</b> <b>100 1.1/2 142 10 TL</b> <b>322000 232001</b> <b>225011 231000</b> <b>381000 380100</b> <b>600 H-500 110-256</b> <b>SCL 43 TX-80</b> <b>VDE 4616</b> <b>45 P H 42-10</b> <b>316500</b> <b>4533-2</b> <b>VDE 2170-2160 PH-077</b> <b>+ 1100 L</b>	10.3	2658216	1100-03

Contents	kg	Code	No.
<b>7 R 10 13 17 19 24</b> <b>100 1.1/2 142 10 TL</b> <b>322000 232001</b> <b>225011 231000</b> <b>381000 380100</b>	4.4	2940590	1100 CT2-03-100 B
<b>600 H-500 110-256</b> <b>SCL 43 TX-80</b> <b>VDE 4616</b> <b>45 P H 42-10</b> <b>316500</b>	2.6	2940604	1100 CT2-03-600 D

Description	kg	Code	No.
<b>Foam insert 2/2 L-BOXX 136, bottom, empty</b>	0.200	2689979	EI-1100-03-100 B
<b>Foam insert 2/2 L-BOXX 136, lid, empty</b>	0.200	2690039	EI-1100-03-600 D

# 1100-BASIC STARTER TOOL KIT

in L-BOXX® 136, 23 pieces

- > Basic outfit for all lots
- > 1100 CT2-BASIC to retrofit existing L-BOXX®es 136



1100-BASIC



1100 CT2-BASIC

Contents	kg	Code	No.
<b>7 10 12 13 14 15 16 17 18 19</b> <b>4528 4533-2</b> <b>406 95-200</b> <b>600 H-500</b> <b>8133-180 JC</b> <b>8316-180 JC</b> <b>142 10 TL</b> <b>2150 4 5,5 6,5</b> <b>2160 PH 1 2</b> <b>4615 3</b> <b>+ 1100 L</b>	6.1	2835983	1100-BASIC
<b>7 10 12 13 14 15 16 17 18 19</b> <b>4528 4533-2</b> <b>406 95-200</b> <b>600 H-500</b>	2.4	2835967	1100 CT2-BASIC

Description	kg	Code	No.
<b>Foam insert 2/2 L-BOXX 136, empty</b>	0.200	2835975	EI-1100 CT2-BASIC

1100-1094

> 592



# 1100-1.04

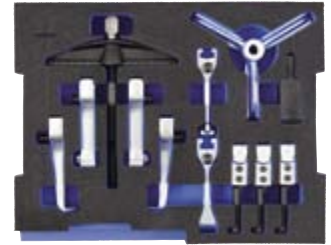
## UNIVERSAL PULLER SET

in L-BOXX® 136

- > Max. capacity up to 5 t
- > 2- and 3-arm cross-beam
- > With rigid and slim legs and extensions
- > Extra-slim pulling legs for cramped spaces are attached for self-mounting
- > The forged leg feet are very slim particularly suitable for barely accessible places
- > 12 different pullers can be combined
- > External Ø up to 130 mm, internal Ø up to 170 mm with a 200 mm clamping reach
- > 1100 CT2-1.04 to retrofit existing L-BOXX®es 136
- > With Check-Tool insert for quick check of completeness
- > As tools are fully sunk in the foam, the equipped insert can be stacked
- > Insert for use in drawers with min. dimensions 400 x 310 x 60 mm



1100-1.04



1100 CT2-1.04

Contents	kg	Code	No.	Contents	kg	Code	No.
1x 1.04/HP1A-B	6.3	2838362	1100-1.04	1x 1.04/HP1A-B	4.1	2836068	1100 CT2-1.04
1x 107/1A03				1x 107/1A03			
1x 106/A-100-B				1x 106/A-100-B			
3x 106/A-100-VB				3x 106/A-100-VB			
3x 106/A-100-S				3x 106/A-100-S			
3x 106/S101-S				3x 106/S101-S			
1x 1.1406200				1x 1.1406200			
+ 1100 L							
Description	kg	Code	No.	Description	kg	Code	No.
Foam insert 2/2 L-BOXX 136, empty	0.200	2836076		Foam insert 2/2 L-BOXX 136, empty	0.200	2836076	EI-1100 CT2-1.04

# 1100-1.04/12A

## PULLER SET INTERNAL/EXTERNAL

in L-BOXX® 136

- > Max. capacity 3 and 5 t
- > For clamping depths up to Ø 200 mm external, Ø 70-260 mm internal, and clamping reach up to 300 mm
- > In 3 of 4 spindles the spindle tip (ball/tip) can be rotated
- > Quick-release pulling legs with integral T-profile for a better transmission of force
- > The forged leg feet are very slim particularly suitable for barely accessible places
- > 2 rigid extensions each 100 and 150 mm with leg brake for quick adjustment of the legs
- > 1100 CT2-1.04/12A to retrofit existing L-BOXX®es 136
- > With Check-Tool insert for quick check of completeness
- > As tools are fully sunk in the foam, the equipped insert can be stacked
- > Insert for use in drawers with min. dimensions 400 x 310 x 90 mm



1100-1.04/12A



1100 CT2-1.04/12A



Contents	kg	Code	No.	Contents	kg	Code	No.
1x 1.04/1A	9.6	2927241	1100-1.04/12A	1x 1.04/1A	7.4	2927268	1100 CT2-1.04/12A
1x 1.04/2A				1x 1.04/2A			
2x 106/A-100-VB				2x 106/A-100-VB			
2x 106/B-150-VB				2x 106/B-150-VB			
1x 1.1406200				1x 1.1406200			
1x 1.2106350KS				1x 1.2106350KS			
+ 1100 L							
Description	W	D	H	kg	Code	No.	
Foam insert 2/2 L-BOXX 136, empty	400	310	90	0.200	2927276	EI-1100 CT2-1.04/12A	

**NEW**



**NEW**

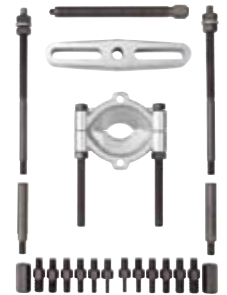
# 1100-1.41/2A SEPARATOR AND PULLER SET

in L-BOXX® 136

- > For clamping depths from Ø 22 to 115 mm and clamping reach up to 295 mm
- > Incl. threaded inserts for internal threads M8-M18
- > For loosening and pulling tightly-seated parts e.g. taper roller bearings and inner bearing races
- > The clamping reach can be extended with extension rods 1.38/AV-FV from 195 to 295 mm
- > 1100 CT2-1.41/2A to retrofit existing L-BOXX®es 136
- > With Check-Tool insert for quick check of completeness
- > As tools are fully sunk in the foam, the equipped insert can be stacked
- > Insert for use in drawers with min. dimensions 400 x 310 x 60 mm



1100 CT2-1.41/2A



1100-1.41/2A

Contents		Code	No.
1x 1.38/2	11.5	2927284	1100-1.41/2A
1x 1.40/2			
1x 1.81/20			
1x 1.38/CV			
+ 1100 L			

Contents		Code	No.
1x 1.38/2	7.9	2927292	1100 CT2-1.41/2A
1x 1.40/2			
1x 1.81/20			
1x 1.38/CV			

Description		Code	No.
Foam insert 2/2 L-BOXX 136, empty	0.200	2927306	EI-1100 CT2-1.41/2A

# 1100-1.30 INTERNAL EXTRACTOR SET

in L-BOXX® 136, 7 pieces

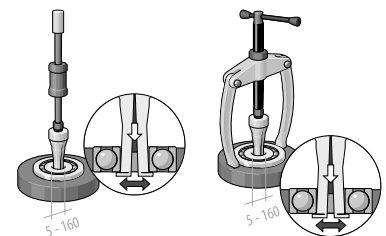
- > For internal Ø 12 - 35 mm
- > For extremely-tightly-packed ball bearings, bearing races, bushings, and shaft seals Simmering®
- > Sliding hammer 1.7 kg and counter-support brace
- > 1100 CT2-1.30 to retrofit existing L-BOXX®es 136
- > With Check-Tool insert for quick check of completeness
- > As tools are fully sunk in the foam, the equipped insert can be stacked
- > Insert for use in drawers with min. dimensions 400 x 310 x 60 mm



1100-1.30



1100 CT2-1.30



Contents		Code	No.
1.30/2	7.2	2836041	1100-1.30
1.30/3			
1.30/4			
1.30/4A			
1.30/5			
1.36/1			
1.35/2			
+ 1100 L			

Contents		Code	No.
1.30/2	5.0	2836025	1100 CT2-1.30
1.30/3			
1.30/4			
1.30/4A			
1.30/5			
1.36/1			
1.35/2			

Description		Code	No.
Foam insert 2/2 L-BOXX 136, empty	0.200	2836033	EI-1100 CT2-1.30

## 1100 CT1-7 COMBINATION SPANNER SET

in 1/2 L-BOXX® 136 Module, 12 pieces



Contents	kg	Code	No.
7 8 10 12 13 14 15 16 17 18 19 22 24	1.400	2835908	1100 CT1-7

Description	kg	Code	No.
Foam insert 1/2 L-BOXX 136, empty	0.100	2835924	EI-1100 CT1-7

## 1100 CT1-19 SOCKET SET 1/2"

in 1/2 L-BOXX® 136 Module, 21 pieces

12.5

1/2"



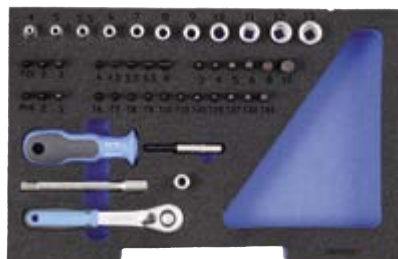
Contents	kg	Code	No.
19 8 9 10 11 12 13 14 15 16 17 18 19 21 22 24 27 30 32 1993 U-20 1990 KR-5 -10	2.800	2836009	1100 CT1-19

Description	kg	Code	No.
Foam insert 1/2 L-BOXX 136, empty	0.130	2836017	EI-1100 CT1-19

## 1100 CT1-20 SOCKET SET 1/4"

in 1/2 L-BOXX® 136 Module, 44 pieces

> For universal use with sockets and bits



Contents	kg	Code	No.
20 4 5 5,5 6 7 8 9 10 11 12 13 2093 U-20 2090-4 699 620 676 680 4 4,5 5,5 6,5 8 685 3 4 5 6 8 10 690 1 2 3 690 PZD 1 2 3 687 TX T6 T7 T8 T9 T10 T15 T20 T25 T27 T30 T40	0.700	2835886	1100 CT1-20

Description	kg	Code	No.
Foam insert 1/2 L-BOXX 136, empty	0.100	2835894	EI-1100 CT1-20



## 1100 CT1-350 CHISEL SET

in 1/2 L-BOXX® 136 Module, 9 pieces

> Club hammer ROTBAND-PLUS for powerful blows



Contents	kg	Code	No.
106 112-2508 110-256 620 E-1000	2.300	2835932	1100 CT1-350

Description	kg	Code	No.
Foam insert 1/2 L-BOXX 136, empty	0.100	2835959	EI-1100 CT1-350



# 1101-7-7 R RING SPANNER SET

in i-BOXX® 72, 15 pieces

- > Often used sizes as practical combination ratchet spanner
- > In GEDORE i-BOXX® 72 No. 1101 L
- > Dimensions: W 367 x D 316 x H 72 mm



Contents		Code	No.
7 R 10 13 17 19	2.900	2836114	1101-7-7 R
7 6 8 11 12 14 15 16 18 21 22 24			
+ 1101 L			



# 1101-D 20 SOCKET SET 1/4"

in i-BOXX® 72, 58 pieces

- > For universal use with sockets and bits
- > In GEDORE i-BOXX® 72 No. 1101 L
- > Dimensions: W 367 x D 316 x H 72 mm



Contents		Code	No.
D 20 4 4,5 5 5,5 6 7 8 9 10 11 12 13 14	2.000	2836165	1101-D 20
2093 U-20 2090-2 -4 2095			
620 676 673 6,3 699			
680 4 5,5 6,5 8			
685 3 4 5 6 8 10			
685 X 5 6 8			
690 1 2 3			
690 PZD 1 2 3			
687 TX T6 T7 T8 T9 T10 T15 T20 T25 T27 T30 T40			
688 TX T10 T15 T20 T25 T27 T30 T40			
+ E-1101 BT			
+ 1101 L			



# 1101-19 SOCKET SET 1/2"

in i-BOXX® 72, 21 pieces

- > In GEDORE i-BOXX® 72 No. 1101 L
- > Dimensions: W 367 x D 316 x H 72 mm



Contents		Code	No.
19 8 9 10 11 12 13 14 15 16	4.050	2836084	1101-19
17 18 19 21 22 24 27 30 32			
1993 U-20			
1990 KR-5 -10			
+ 1101 L			



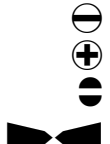
# 1101-142-2150 PLIERS/SCREWDRIVER ASSORTMENT

in i-BOXX® 72, 9 pieces

- > In GEDORE i-BOXX® 72 No. 1101 L
- > Dimensions: W 367 x D 316 x H 72 mm



Contents		Code	No.
2150 4 5,5 6,5	1.900	2836149	1101-142-2150
2160 PH 1 2			
4615 3			
8133-180 JC 8316-160 JC			
142 10 TL			
+ 1101 L			



NEW

# 1101-1.29/1K

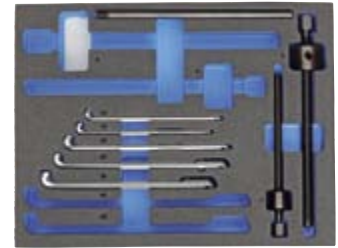
## BALL BEARING EXTRACTOR SET

in i-BOXX® 72

- > Ball bearing extractor set for more than 30 ball bearings
- > For removing ball bearings that are both on a shaft and in a housing
- > Non-destructive removal of deep-groove ball bearings without dismantling the shaft; no necessity to drill open the bearing cage (no chippings)
- > With Check-Tool insert for quick check of completeness
- > Insert for use in drawers with min. dimensions 340 x 260 x 60 mm
- > In GEDORE i-BOXX® 72 No. 1101 L
- > Dimensions: W 367 x D 316 x H 72 mm



1101-1.29/1K



1101 CT-1.29/1K



Contents	for ball bearing No.	kg	Code	No.
<b>2 Heads with spindle no. 1.29/1 + 1.29/3</b>	6000 6001 6002 6003 6004 6005 6006 6007	2.610	2963485	1101-1.29/1K
<b>5 Heads with spindle no. 1.29/10 - 1.29/35</b>	6008 6009 6010 6011 6012 6200 6201 6202			
<b>1 Handle no. 1.29/0</b>	6203 6204 6205 6206 6207 6300 6301 6302			
<b>2 Heads with spindle no. 1.29/1 + 1.29/3</b>	6303 6304 6305 6306 6307 6403 6404	1.750	2964414	1101 CT-1.29/1K
<b>5 Heads with spindle no. 1.29/10 - 1.29/35</b>				
<b>1 Handle no. 1.29/0</b>				

Description	kg	Code	No.
<b>Foam insert i-BOXX 72, empty</b>	0.110	2964449	EI-1101 CT-1.29/3K

# 1101-1.29/3K

## BALL BEARING EXTRACTOR SET

in i-BOXX® 72

- > Ball bearing extractor set for more than 40 ball bearings
- > For removing ball bearings that are both on a shaft and in a housing
- > Non-destructive removal of deep-groove ball bearings without dismantling the shaft; no necessity to drill open the bearing cage (no chippings)
- > With Check-Tool insert for quick check of completeness
- > Insert for use in drawers with min. dimensions 340 x 260 x 60 mm
- > In GEDORE i-BOXX® 72 No. 1101 L
- > Dimensions: W 367 x D 316 x H 72 mm



1101-1.29/3K



1101 CT-1.29/3K



Contents	for ball bearing No.	kg	Code	No.
<b>4 Heads with spindle no. 1.29/1 - 1.29/5</b>	6000 6001 6002 6003 6004 6005 6006 6007 6008 6009 6010 6011	5.780	2964392	1101-1.29/3K
<b>7 Heads with spindle no. 1.29/10 - 1.29/45</b>	6012 6200 6201 6202 6203 6204 6205 6206 6207 6208 6209 6210			
<b>1 Handle no. 1.29/0</b>	6211 6212 6213 6300 6301 6302 6303 6304 6305 6306 6307 6308			
<b>4 Heads with spindle no. 1.29/1 - 1.29/5</b>	6309 6310 6311 6403 6404 6405 6406 6407	4.920	2964430	1101 CT-1.29/3K
<b>7 Heads with spindle no. 1.29/10 - 1.29/45</b>				
<b>1 Handle no. 1.29/0</b>				

Description	kg	Code	No.
<b>Foam insert i-BOXX 72, empty</b>	0.110	2964449	EI-1101 CT-1.29/3K

NEW

# 1100 W-001

## TOOL BOARD WITH PLIERS/ SCREWDRIVER ASSORTMENT

9 pieces

> To retrofit existing L-BOXX®es 136



# 1100 W-002 VDE

## TOOL BOARD WITH VDE PLIERS/ SCREWDRIVER ASSORTMENT

9 pieces

> To retrofit existing L-BOXX®es 136



1000 V

Contents	Contents	kg	Code	No.
8133-180 JC	Assortment no. S 1100 W-001	1.500	2836181	1100 W-001
8316-180 JC	+ tool board no. ET-1100 W			
142 10 TL				
2150 4 5,5 6,5				
2160 PH 1 2				
4615 3				
+ ET-1100 W				
8133-180 JC	Assortment without tool board	1.100	2836211	S 1100 W-001
8316-180 JC				
142 10 TL				
2150 4 5,5 6,5				
2160 PH 1 2				
4615 3				

Contents	Contents	kg	Code	No.
VDE 8314-160 H	Assortment no. S 1100	1.200	2836203	1100 W-002 VDE
VDE 8132-160 H	W-002 VDE			
VDE 2170 2,5 3,5 5,5	+ tool board no. ET-1100 W			
VDE 2160 PH 1 2				
VDE 2160 PZ 1 2				
+ ET-1100 W				
VDE 8314-160 H	Assortment without tool board	0.800	2836238	S 1100 W-002 VDE
VDE 8132-160 H	board			
VDE 2170 2,5 3,5 5,5				
VDE 2160 PH 1 2				
VDE 2160 PZ 1 2				

1101-001

>425



1101-002

>423



1101-003 VDE

>587



1101-004

>425



## ET-1100 W LID TOOL BOARD

(without tools)

- > For or retrofittable for any L-BOXX®
- > Rubber straps and pockets for inserting tools
- > For orderliness and more storage space
- > Mounting material is included in delivery



W	D	H		Code	No.
375	20	310	0.400	2678322	ET-1100 W

## 1100 L GEDORE L-BOXX® 136 WITH EASY CARRY HANDLE

- > Rugged construction
- > Impact-resistant ABS plastic
- > Splash resistant
- > Top and front handle for variable transport of the L-BOXX®
- > With tool board for order and more storage space
- > Easy click plug-system: Practical plug connection for two or more L-BOXX®es, for secure grip and easy to carry
- > For integration in vehicles with Sortimo® vehicle equipment
- > External dimensions: W 442 x D 357 x H 151 mm
- > Internal dimensions: W 378 x D 311 x H 107 mm



W	D	H		Code	No.
442	357	151	2.2	2823691	1100 L

## 1100 R GEDORE L-BOXX® ROLLER

- > Practical, mobile trolley for all L-BOXX® types
- > Simply fit and click into place
- > Four swivel castors for self-assembly of which two have brakes
- > Load capacity up to 100 kg



W	D	H		Code	No.
646	492	184	3.8	2823756	1100 R

## 1101 K GEDORE I-BOXX® RACK ACTIVE

- > Shelf-like holder for any i-BOXX® 72 no. 1101 L (not included)
- > Easy click attaching system, thus compatible with the GEDORE L-BOXX® 136 no. 1100 L or with any other L-BOXX® on the market



W	D	H		Code	No.
442	357	100	1.100	2823713	1101 K

## 1101 L GEDORE I-BOXX® 72

- > Small parts case with transparent cover for getting an immediate impression
- > Ideal for keeping small parts and accessories
- > Optional inset boxes i3 for an individual range
- > Suitable for i-BOXX® Rack aktiv no. 1101 K
- > Comfort handle
- > Dimensions: W 367 x D 316 x H 72 mm



W	D	H		Code	No.
367	316	72	0.900	2823705	1101 L

## E-1101 BT GEDORE INSETBOX I3

- > For GEDORE i-BOXX® 72 no. 1101 L
- > For keeping small parts
- > Further subdivision possible with the 2 partitions



W	D	H		Code	No.
260	78	63	0.100	2840006	E-1101 BT

# 1102 L L-BOXX® MINI

- > Despite its small size the L-BOXX® Mini has all the practical functions of the well-liked L-BOXX®:
- > Two L-BOXX® Minis fit into an i-BOXX® 72

stackable, clicks into place with the others and has a practical handle.

It also has two removable partitions for housing incidental parts both easily and protectively.



# 1102 L GEDORE L-BOXX® MINI

- > Can be used together with the GEDORE BOXX®-system
- > Especially suitable for small tool sets
- > Also usable as small parts box, incl. divider set
- > Dimensions: W 260 x D 155 x H 63 mm

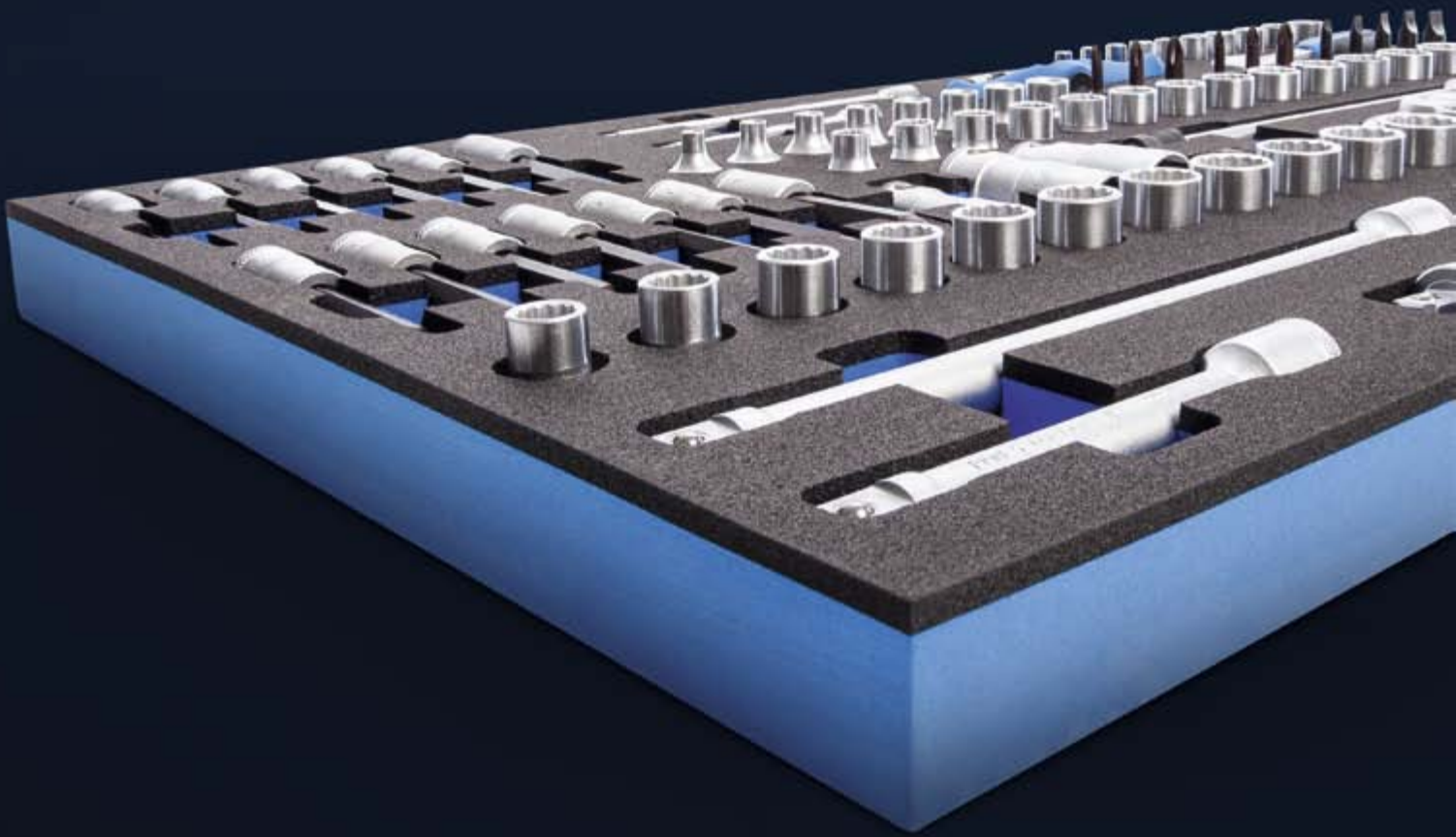


W	D	H		Code	No.
260	155	63	0.4	2950529	1102 L

## GEDORE L-BOXX® MINI



<p>1102-001 &gt;425</p>	<p>1102-003 &gt;423</p>	<p>1102-002 VDE &gt;588</p>	<p>1102-004 VDE &gt;588</p>
<p>1102-007 &gt;423</p>	<p>1102-008 &gt;423</p>	<p>1102-005 VDE &gt;588</p>	<p>1102-006 VDE &gt;588</p>





# TOOL ASSORTMENTS



**TOOL  
ASSORTMENTS**  
>068



**ES  
MODULES**  
>098



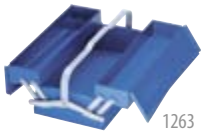
**CT  
MODULES**  
>105



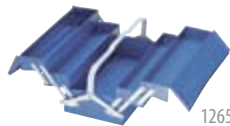
# TOOL ASSORTMENTS OVERVIEW

Matching your chosen toolkit to the right tool trolley, workbench or cupboard

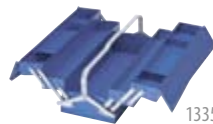
The table allows you to make the right choice of safe and secure storage for any particular tool set.



1263



1265



1335



1410



1420



1578



1580



1502



1505



B 1500



BR 1504



1401



1506 XL 2511



1506 XL 2810



BR 1500



1504



2004



2005



1504 XL



WSL-L7













# 501 M BASIC TOOL SET

29 pieces

- > In practical black leather case with zip fastener
- > Packed with a basic assortment of tools for emergencies
- > Dimensions: W 300 x D 260 x H 45 mm
- > Tools in metric sizes













Code	Code	No.
2.5	6511090	501 M
 <b>7</b> 10 11 12 13 17 19	 <b>4629</b>	 <b>2150</b> 3 4 5,5 6,5
 <b>142</b> 10 TL	 <b>8210</b> -160 JC	 <b>2160</b> PH 1 2
 <b>625</b> M	 <b>600</b> H -200	 <b>E-501</b> ST
 <b>647</b>		

# 1050 TOOL ASSORTMENT AUTODOCTOR

29 pieces

- > Breakdown assortment for cars
- > Set in metric sizes
- > In practical artificial leather wallet



Code	Code	No.
3.2	6604770	1050
 <b>7</b> 8 10 12 13 14 17 19	 <b>625</b> M	 <b>600</b> H -300
 49 D 49 R	 <b>4611</b>	 <b>2150</b> 4 5,5 6,5
 <b>145</b> 10 C	 <b>0513-09</b>	 <b>2160</b> PH 2
 <b>8250</b> -180 JC		

# 1000 TOOL CASE TOURING

49 pieces



- > The perfect assortment for most problems
- > A carefully developed assortment of tools specified as the most useful
- > Packed in a handy plastic case
- > The reliable companion in a car, boat or small aircraft
- > Useful in the home - where good tools are always needed
- > All 49 pieces are well laid out and securely fastened, intermediate plate secures the tools in their pockets

- > With the TOURING repairs and maintenance become easy
- > Case made from impact-resistant polypropylene, resistant to oil and acid and extremes of weather, with Check-Tool insert
- > GEDORE vanadium tools, chrome-plated
- > Dimensions: 437x379x160 mm



1000

S 1000

Contents		Code	No.
<b>Tool set TOURING S 1000 + tool case WK 1000 L</b>	7.0	6600780	1000

Contents	Contents	Contents
7 6 7 8 10 11 12 13 14 15 17 19	2160 PH 1 2	97 -125 -150
19 10 11 12 13 14 15 17 19 22	4615 3	98 -125
1990 -5 -10	0513-09	99 12-3
1995	142 10 TL	100 -10
1993 U -20	8316 -160 JC	119 -4
42 2 (5/64AF) 2,5 3 4 5 6 8 10	8133 -180 JC	
2150 4,5,5,6,5	600 H -300	

# 1090 TOOL CASE ELECTRICIAN

90 pieces



- > The perfect tool set for the electrician or property manager
- > A thoughtful assortment for the work to be done
- > Packed in a strong plastic case
- > Aluminium frame, three steel hinges, screwed handle, fitted with built in locks
- > May be used wherever the right tools have to be always at hand
- > GEDORE vanadium tools, chrome-plated
- > Dimensions: W 480 x D 370 x H 180 mm



Contents		Code	No.
<b>Tool set S 1090</b> <b>+ tool case WK 1090 L</b>	13.2	6601590	1090
<b>Contents</b>		<b>Contents</b>	<b>Contents</b>
6 14x17 18x19 21x23 22x24		2160 PZ 1 2	VDE 8098 -160
8 4,4,5 5,5,5 6 7 8 9 10 11 12 13		VDE 2160 PH 1 2	VDE 8120 -160
20 4 4,5 5 5,5 6 7 8 9 10 11 13		VDE 2170 3,5 4 5,5 6,5	VDE 8250 -180
2087		4615 3,5	VDE 8132 AB -160
2095		173 5,5 8	VDE 8316 -200
2098		174 1	95 -175
2090 -4		745	99 10-2 10-4
2093 U -3		0513-09	101
42 2 (5/64AF) 2,5 3 4 5 6 7 8 10		4534 -3	112 A -250
60 CP 10		401	112 S
156 S		401 A [10x]	600 H -300
2153 5,5		145 10 JC	72 H -100
2161 PH 1		8096 -140	<b>E-1090 LK LZ LF LS</b>

# 1091 ELECTRICIANS TOOL CASE

18 pieces

- > Robust tool case with 18-piece basic assortment
- > **Particularly suitable for beginners in electronic professions**
- > From eco-friendly tanned cowhide
- > Carefully processed with strong industrial seams
- > Base insert from zinc-plated sheet steel
- > Edges reinforced with aluminium angle brackets, metal parts durable riveted
- > With feet to protect sensitive surfaces
- > Front part can be lowered for quick access to the tools, with two key locks to prevent inadvertent opening

- > Removable carrying strap with shoulder protector and sturdy carrying handle
- > Anti-theft protection due to two lockable notches, delivery includes two keys
- > Document partition
- > Interior measurements 430 x 200 x 290 mm



Contents	kg	Code	No.
<b>Tool set S 1091</b> <b>+ tool case WK 1091 L</b>	8.250	1953710	1091

Contents	Contents	Contents
<b>VDE 2133</b> 7 8 10	<b>4533</b> -2	<b>VDE 8132</b> -160 H
<b>VDE 2160</b> PH 1 2 3	<b>VDE 4616</b>	<b>VDE 8250</b> -180 H
<b>VDE 2170</b> 3 4 5,5	<b>4629</b>	<b>VDE 8316</b> -180 H
<b>4528</b>	<b>8097</b>	<b>E-1091 ST</b>

# 1263 TOOL BOX WITH TOOL ASSORTMENT

3 compartments

- > For workshops and service stations
- > Tools in metric or inch sizes
- > Dimensions: H 158 x W 420 x D 225 mm



S 1151



1151-1263 / 1151 A-1263

12.5  
1/2"

Contents	kg	Code	No.
<b>Tool set S 1151 + tool box 1263 L</b>	15.8	6608330	1151-1263
<b>Tool set S 1151 A + tool box 1263 L</b>	15.8	6608410	1151 A-1263

Contents	Contents
2 8x9 10x11 12x13 14x15 16x17 18x19 20x22	2150 4,6,5 8
6 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22	2160 PH 2
19 10 11 12 13 14 15 17 19 22 24 27 30 32	50
1990 -3 -5 -10	137 10
1987	145 10 C
1995	299
1993 U -10 T	100 -12
38 16 [2x]	99 10-4
42 2,5 3 4 5 6 8	97 -150

Contents	Contents
625 M	4611
4611	8250 -180 JC
8250 -180 JC	8316 -160 JC
8316 -160 JC	600 H -500
600 H -500	1263 L
1263 L	

Contents	Contents
625 M	4611
4611	8250 -180 JC
8250 -180 JC	8316 -160 JC
8316 -160 JC	600 H -500
600 H -500	1263 L
1263 L	

# 1265 TOOL BOX WITH TOOL ASSORTMENT

5 compartments

- > For workshops and service stations
- > Tools in metric or inch sizes
- > Dimensions: H 210 x W 420 x D 225 mm



S 1151



1151-1265 / 1151 A-1265

12.5  
1/2"

Contents	kg	Code	No.
<b>Tool set S 1151 + tool box 1265 L</b>	17.3	6609140	1151-1265
<b>Tool set S 1151 A + tool box 1265 L</b>	17.3	6609220	1151 A-1265

Contents	Contents
2 8x9 10x11 12x13 14x15 16x17 18x19 20x22	2150 4,6,5 8
6 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22	2160 PH 2
19 10 11 12 13 14 15 17 19 22 24 27 30 32	50
1990 -3 -5 -10	137 10
1987	145 10 C
1995	299
1993 U -10 T	100 -12
38 16 [2x]	99 10-4
42 2,5 3 4 5 6 8	97 -150

Contents	Contents
625 M	4611
4611	8250 -180 JC
8250 -180 JC	8316 -160 JC
8316 -160 JC	600 H -500
600 H -500	1265 L
1265 L	

Contents	Contents
625 M	4611
4611	8250 -180 JC
8250 -180 JC	8316 -160 JC
8316 -160 JC	600 H -500
600 H -500	1265 L
1265 L	



# 1335 TOOL BOX WITH TOOL ASSORTMENT

5 compartments, long pattern

- > Tools in metric or inch sizes
- > Dimensions: H 210 x W 535 x D 225 mm



S 1151



1151-1335 / 1151 A-1335

12,5  
1/2"



Contents		Code	No.
<b>Tool set S 1151 + tool box 1335 L</b>	18.5	6610660	1151-1335
<b>Tool set S 1151 A + tool box 1335 L</b>	18.5	6610740	1151 A-1335

Contents	
2 8x9 10x11 12x13 14x15 16x17 18x19 20x22	
6 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22	
19 10 11 12 13 14 15 17 19 22 24 27 30 32	
1990 -3 -5 -10	
1987	
1995	
1993 U -10T	
38 16 [2x]	
42 2,5 3 4 5 6 8	
2150 4 6,5 8	

Contents	
2160 PH 2	
50	
137 10	
145 10 C	
299	
100 -12	
99 10-4	
97 -150	
625 M	
4611	

Contents	
8250 -180 JC	
8316 -160 JC	
600 H -500	
1335 L	

S 1151 S 1151 A >82/88

1265 L >49

1263 L >48

1335 L >49

# S 1050

## TOOL ASSORTMENT AUTODOCTOR

29 pieces


- > Breakdown assortment for cars
- > Set in metric sizes
- > Also available in practical artificial leather wallet










1050







S 1050

Contents		Code	No.
<b>29 tools without wallet</b>	2.6	6604850	S 1050
<b>29 tools in wallet</b>	3.2	6604770	1050

Contents	
	7 8 10 12 13 14 17 19
	49 D 49 R
	145 10 C

Contents	
	<b>625 M</b>
	<b>4611</b>
	<b>0513-09</b>
	

Contents	
	<b>8250 -180 JC</b>
	<b>600 H -300</b>
	<b>2150 4 5,5 6,5</b>
	<b>2160 PH 2</b>

# S 1000

## TOOL ASSORTMENT TOURING

49 pieces

- > The perfect assortment for most problems
- > A carefully developed assortment of tools specified as the most useful
- > GEDORE vanadium tools, chrome-plated
- > Also available with case











1000















S 1000



Contents		Code	No.
<b>49 tools without case</b>	5.3	6600190	S 1000
<b>Tool set TOURING S 1000 + tool case WK 1000 L</b>	7.0	6600780	1000

Contents	
	7 6 7 8 10 11 12 13 14 15 17 19
	19 10 11 12 13 14 15 17 19 22
	<b>1990 -5 -10</b>
	<b>1995</b>
	<b>1993 U -20</b>
	<b>42 2 (5/64AF) 2,5 3 4 5 6 8 10</b>
	<b>2150 4 5,5 6,5</b>

Contents	
	<b>2160 PH 1 2</b>
	<b>4615 3</b>
	<b>0513-09</b>
	<b>142 10TL</b>
	<b>8316 -160 JC</b>
	<b>8133 -180 JC</b>

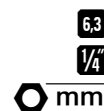
Contents	
	<b>600 H -300</b>
	<b>97 -125 -150</b>
	<b>98 -125</b>
	<b>99 12-3</b>
	<b>100 -10</b>
	<b>119 -4</b>

# S 1090

## TOOL CASE ELECTRICIAN

90 pieces

- > The perfect tool set for the electrician or property manager
- > A thoughtful assortment for the work to be done
- > GEDORE vanadium tools, chrome-plated
- > Also available with case



Contents	kg	Code	No.
<b>90 tools without case</b>	8.2	6601400	S 1090
<b>Tool set S 1090</b>	13.2	6601590	1090
<b>+ tool case WK 1090 L</b>			

Contents	Contents	Contents
6 14x17 18x19 21x23 22x24	<b>2160 PZ 12</b>	<b>VDE 8098 -160</b>
8 4 4,5 5,5 6 7 8 9 10 11 12 13	<b>VDE 2160 PH 12</b>	<b>VDE 8120 -160</b>
20 4 4,5 5,5 6 7 8 9 10 11 13	<b>VDE 2170 3,5 4 5,5 6,5</b>	<b>VDE 8250 -180</b>
<b>2087</b>	<b>4615 3,5</b>	<b>VDE 8132 AB -160</b>
<b>2095</b>	<b>173 5,5 8</b>	<b>VDE 8316 -200</b>
<b>2098</b>	<b>174 1</b>	<b>95 -175</b>
<b>2090 -4</b>	<b>745</b>	<b>99 10-2 10-4</b>
<b>2093 U -3</b>	<b>0513-09</b>	<b>101</b>
42 2 (5/64AF) 2,5 3 4 5 6 7 8 10	<b>4534 -3</b>	<b>112 A -250</b>
<b>60 CP 10</b>	<b>401</b>	<b>112 S</b>
<b>156 S</b>	<b>401 A [10x]</b>	<b>600 H -300</b>
<b>2153 5,5</b>	<b>145 10 JC</b>	<b>72 H -100</b>
<b>2161 PH 1</b>	<b>8096 -140</b>	<b>E-1090 LK LZ LF LS</b>


# S 1093

## VDE TOOL ASSORTMENT










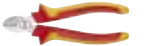





26 pieces

- > Particularly suited as the initial outfit for electrical specialists
- > The GEDORE tool case or tool trolley are suited for mobile assignments
- > Recommended hook assortment 1500 HS-1093 (26 pieces)



Contents		Code	No.
<b>26 tools in metric sizes</b>	4.8	2319942	S 1093

Contents	Code	Contents	Code	Contents	Code
 <b>142 10 C</b>		 <b>VDE 2160 PZ 1 2</b>		 <b>8097</b>	
 <b>VDE 8250 -180 H</b>		 <b>VDE 4616</b>		 <b>600 H -500</b>	
 <b>VDE 8132 -160 H</b>		 <b>42 2 (S/64AF) 2,5 3 4 5 6 8 10</b>		 <b>112 A -250</b>	
 <b>VDE 8314 -160 H</b>		 <b>4533 -2</b>		 <b>110 HS -318</b>	
 <b>VDE 2170 4,5,5,6,5,8</b>		 <b>4528</b>		 <b>0175 -06</b>	

# S 1004


## MECHANIC'S TOOL ASSORTMENT

80 pieces



































- > Particularly suitable for the rear panel R 1504 L
- > Recommended hook assortment 1500 HS-1004 (82 pieces)
- > Tools in metric sizes



12.5  
1/2"

Contents		Code	No.
<b>80 tools in metric sizes</b>	14.0	6600000	S 1004

Contents	Code	Contents	Code	Contents	Code
 <b>7 8 9 10 11 12 13 14 15 16 17 18 19 21 22 23 24</b>		 <b>98 -125</b>		 <b>8719 2-8</b>	
 <b>19 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 30 32</b>		 <b>119 -3 -5</b>		 <b>8722 2-8</b>	
 <b>1987</b>		 <b>403</b>		 <b>8725 2-8</b>	
 <b>1995</b>		 <b>640 -1800</b>		 <b>2150 4,6,5,8</b>	
 <b>1990 -5 -10</b>		 <b>132 -150</b>		 <b>2153 5,5</b>	
 <b>1993 U -10T</b>		 <b>0513-09</b>		 <b>2160 PH 2 3</b>	
 <b>42 2 (S/64AF) 2,5 3 4 5 6 8 10</b>		 <b>8250 -180 JC</b>		 <b>2161 PH 2</b>	
 <b>60 CP 8</b>		 <b>8132 -160 JC</b>		 <b>1.12 /01</b>	
 <b>143 10 C</b>		 <b>8316 -160 JC</b>			
 <b>175 1.1/2</b>		 <b>424026</b>			
 <b>139 -400</b>		 <b>600 H -500</b>			
 <b>100 -10</b>		 <b>8701 2-8</b>			
 <b>99 10-3</b>					
 <b>97 -150 -200</b>					

# S 1400 G UNIVERSAL TOOL ASSORTMENT

100 pieces

- > Tools in metric sizes
- > Supplied in tool modules 1500 ES, suitable to fit in 5 drawers of the GEDORE tool trolleys (e.g. workster) and workbenches
- > Also available in tool cabinet or on tool boards

12,5  
1/2"




1400 G-1450-2





1400 G














S 1400 G

Contents		Code	No.
<b>100 tools in metric sizes</b>	17.7	6612790	S 1400 G
<b>Tool set S 1400 G</b>	46.7	6613250	1400 G
<b>+ tool cabinet 1400 L</b>			
<b>Tool set S 1400 G</b>	30.6	6617320	1400 G-1450-2
<b>+ 2x tool panel 1450 L</b>			
<b>+ hook assortment 1500 HS 17</b>			

	Contents
	<b>42</b> 1,3 1,5 2 (S/64AF) 2,5 3 4 5 6 8 10
	<b>2</b> 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22
	<b>6</b> 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27
	<b>19</b> 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 30 32
	<b>IN 19</b> 6 7 8 9 10 12 14
	<b>142</b> 10 JC
	<b>8132</b> -160 JC
	<b>8250</b> -180 JC
	<b>8316</b> -160 JC
	<b>97</b> -250
	<b>98</b> -125

	Contents
	<b>99</b> 12-5
	<b>100</b> -12
	<b>119</b> -1,5 -3 -4
	<b>600 H</b> -300
	<b>600 E</b> -500
	<b>225 E</b> -40
	<b>1993 U</b> -10 T
	<b>1987</b>
	<b>1995</b>
	<b>1990</b> -5 -10
	<b>2133</b> 5,5 6 7 8 9 10
	<b>2150</b> 4,5 5 6,5 8
	<b>2160 PH</b> 12

	Contents
	<b>60 CP</b> 8
	<b>137</b> 10
	<b>406</b>
	<b>403</b>
	<b>8701</b> 2-6
	<b>8719</b> 2-6
	<b>8722</b> 2-6
	<b>8728</b>
	<b>132</b> -150
	<b>424026</b>
	<b>1500 E-NL</b> [3x]

# S 1400 Z

## SUPPLEMENTARY TOOL ASSORTMENT

34 pieces


- > Tools in metric sizes
- > Ideally suited to the automotive sector
- > Recommended hook assortment 1500 HS-1400 Z (31 pieces)
- > Also available in tool cabinet























1400 GZ



S 1400 Z

Contents		Code	No.
<b>34 tools in metric sizes</b>	11.3	6612950	S 1400 Z
<b>Tool sets S 1400 G + S 1400 Z + tool cabinet 1400 L</b>	57.4	6613330	1400 GZ

Contents	Contents	Contents
 <b>1990</b> -2,1/2 -3	 <b>38 20</b> [2x]	 <b>640</b> -1800
 <b>INX 19 L</b> 6-100 8-100 10-100 12-100	 <b>50</b>	 <b>702</b> 13 M
 <b>2153</b> 6,5	 <b>54</b>	 <b>4610</b>
 <b>2161 PH 2</b>	 <b>125</b> 1	 <b>8729</b> [2x]
 <b>27</b> 24x27 30x32	 <b>128</b> 2-225	
 <b>27 D</b>	 <b>135</b> 13	
 <b>28</b> PU	 <b>299</b>	
 <b>36</b> 1-140	 <b>625</b> M	

# S 1150 UNIVERSAL TOOL ASSORTMENT

10  
3/4

41 pieces

- > For car repairs, household repairs and for the professional
- > Suitable to fit in GEDORE tool box no. 1263 L
- > Recommended hook assortment 1500 HS-1150 (45 pieces)
- > Tools in metric sizes



Contents	kg	Code	No.
<b>41 tools in metric sizes</b>	4.8	6606980	S 1150

Contents	Contents	Contents
<b>1 B</b> 8 10 11 13 14 15 17 19 22	<b>52</b>	<b>600 H</b> -300
<b>30</b> 6 7 8 9 10 11 12 13 14 15 17 19 22	<b>145</b> 10 C	
<b>3090</b> -3 -5 -10	<b>2150</b> 5,5 8	
<b>3095</b>	<b>2160</b> PH 2	
<b>3093</b> GU -3	<b>8250</b> -180 JC	
<b>42</b> 3 4 5 6 8 10	<b>97</b> -125	




























# S 1025

## SANITARY TOOL ASSORTMENT STARTER

49 pieces

- > User-friendly set for future plant mechanics in sanitary, heating and air condition technology
- > Suitable to fit in GEDORE tool box no. 1335 L



Contents		Code	No.
<b>49 tools</b>	7.0	2319896	S 1025
 <b>231000</b>		 <b>600 H -500</b>	 <b>7 R 10 13 17 19 24</b>
<b>2250 3</b>		 <b>4533 -2</b>	 <b>920 11</b>
 <b>232001</b>		 <b>2150 4 5,5</b>	
 <b>100 1.1/2</b>		 <b>2160 PH 1 PH 2</b>	
 <b>914424</b>		 <b>680 4-25 6,5-25</b>	
 <b>316500</b>		 <b>685 3-25 4-25 5-25 6-25</b>	
 <b>317000</b>		 <b>685 X 5-25 6-25 8-25</b>	
 <b>380100</b>		 <b>690 1-25 2-25</b>	
 <b>380200</b>		 <b>690 PZD 1-25 2-25 3-25</b>	
 <b>320000</b>		 <b>687 TX T8-25 T8-25 T9-25 T10-25 T15-25 T20-25 T25-25 T27-25 T30-25 T40-25</b>	
 <b>329000</b>		 <b>620</b>	
 <b>406</b>		 <b>4615 3</b>	
 <b>0513-09</b>			



# S 1024 SANITARY TOOL ASSORTMENT PROFI

62 pieces

- > User-friendly set for plant mechanics in sanitary, heating and air condition technology
- > Suitable to fit in GEDORE tool box no. 1335 L
- > Recommended hook assortment 1500 HS-1024 (68 pieces)
- > Tools in metric sizes



Contents	kg	Code	No.
<b>62 tools</b>	17.7	2319888	S 1024

Contents	Contents	Contents
<b>7 R 10 11 12 13 14 15 16 17 18 19 22 24</b>	<b>317000</b>	<b>620 H -1250</b>
<b>220020</b>	<b>380100</b>	<b>424026</b>
<b>231000</b>	<b>380200</b>	<b>312000</b>
<b>2180 3</b>	<b>378500</b>	<b>314000</b>
<b>2268 2</b>	<b>4615 3</b>	<b>320000</b>
<b>100 1 1.1/2</b>	<b>2150 4 5, 8</b>	<b>329000</b>
<b>914424</b>	<b>2160 PH 1 PH 2</b>	<b>232001</b>
<b>8314 -160 JC</b>	<b>42 1,3 1,5 2 (5/64AF) 2,5 3 4 5 6 8 10</b>	<b>232500</b>
<b>8133 -180 JC</b>	<b>1994</b>	<b>381030</b>
<b>112 -2510</b>	<b>403</b>	<b>1990 -5</b>
<b>110 HS -256</b>	<b>0513-09</b>	
<b>4533 -2</b>	<b>646</b>	
<b>316500</b>	<b>600 H -500</b>	
<b>316 501 502 503</b>		

# S 1151 TOOL ASSORTMENT

68 pieces

- > For workshops and service stations
- > Recommended hook assortment 1500 HS-1151 (50 pieces)
- > Tools in metric sizes
- > Also available in tool box or on tool boards

12.5  
1/2"



S 1151



1151-1263



1151-1265



1151-1335

Contents	kg	Code	No.
<b>68 tools in metric sizes</b>	9.6	6607010	S 1151
<b>Tool set S 1151 + tool box 1263 L</b>	15.8	6608330	1151-1263
<b>Tool set S 1151 + tool box 1265 L</b>	17.3	6609140	1151-1265
<b>Tool set S 1151 + tool box 1335 L</b>	18.5	6610660	1151-1335
<b>Tool set S 1151 + 2x tool panel 1450 L + hook assortment 1500 HS-1151</b>	17.3	6617240	1151-1450-2

	Contents
	<b>2</b> 8x9 10x11 12x13 14x15 16x17 18x19 20x22
	<b>6</b> 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22
	<b>19</b> 10 11 12 13 14 15 17 19 22 24 27 30 32
	<b>1990</b> -3 -5 -10
	<b>1987</b>
	<b>1995</b>
	<b>1993 U</b> -10T

	Contents
	<b>38</b> 16 [2x]
	<b>42</b> 2,5 3 4 5 6 8
	<b>2150</b> 4 6,5 8
	<b>2160 PH 2</b>
	<b>50</b>
	<b>137</b> 10
	<b>145</b> 10 C

	Contents
	<b>299</b>
	<b>100</b> -12
	<b>99</b> 10-4
	<b>97</b> -150
	<b>625</b> M
	<b>4611</b>
	<b>8250</b> -180 JC
	<b>8316</b> -160 JC
	<b>600</b> H -500

# S 1002

## TOOL ASSORTMENT FOR TRACTORS

79 pieces

- > For tractors and other agricultural machines of all brands with metric screws
- > Suitable to fit in GEDORE tool trolley workster
- > Recommended hook assortment 1500 HS-1002 (91 pieces)



12.5  
1/2"



Contents	kg	Code	No.
<b>79 tools in metric sizes</b>	16.1	6600270	S 1002
<b>Contents</b>	<b>Contents</b>	<b>Contents</b>	<b>Contents</b>
<b>1 B</b> 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 22 23 24 27 28 30 32	<b>137 10</b>	<b>702 20 M</b>	
<b>19</b> 10 11 12 13 14 15 16 17 18 19 22 24 27 30 32	<b>145 10 C</b>	<b>4610</b>	
<b>IS 19</b> 12x2	<b>147 5,5 7 9 12</b>	<b>8000 A 2</b>	
<b>1990</b> -5 -10	<b>162 2</b>	<b>8000 J 2</b>	
<b>1987</b>	<b>100</b> -10	<b>8250</b> -180 JC	
<b>1995</b>	<b>99</b> 12-5 12-6 12-8	<b>8316</b> -160 JC	
<b>1993 U</b> -10 T	<b>97</b> -150	<b>600 H</b> -500 -1000	
<b>38 20</b> [2x]	<b>119</b> -3 -4 -5		
<b>42 3 4 5 6 8 10 12 14</b>	<b>403</b>		
	<b>132</b> -200		

# S 1016

## BASIC TOOL ASSORTMENT IN TOOL CASE

87 pieces

- > Ideal for mobile applications by fitters and service personnel
- > Suitable to fit in GEDORE tool case no. WK 1018 L
- > Also available with case or on tool board



6.3  
1/4"  
6.3  
1/4"  
mm  
12.5  
1/2"

Contents	kg	Code	No.
<b>87 tools without case</b>	8.5	2319918	S 1016
<b>Contents</b>	<b>Contents</b>	<b>Contents</b>	<b>Contents</b>
<b>7 8 9 10 11 12 13 14 15 17 19 22</b>	<b>676</b>	<b>8316</b> -180 JC	
<b>1993 U</b> -20	<b>699</b>	<b>8132</b> -160 JC	
<b>1990</b> -5	<b>2090</b> -4	<b>142</b> 10 TL	
<b>19</b> 10 12 13 14 15 16 17 18 19 22 24	<b>2093 U</b> -20	<b>600 H</b> -500	
<b>D 20</b> 4 5 6 7 8 9 10 11 12 13	<b>2150</b> 4 5,5 6,5 8	<b>406</b>	
<b>680</b> 4-25 5,5-25 6,5-25	<b>2160 PH</b> 12	<b>4534</b> -5	
<b>685</b> 3-25 4-25 5-25 6-25	<b>42 2 (5/64AF)</b> 2,5 3 4 5 6 8 10		
<b>685 X</b> 5-25 6-25 8-25	<b>97</b> -125 -150		
<b>687 TX</b> T10-25 T15-25 T20-25 T25-25 T27-25 T30-25 T40-25	<b>98</b> -125		
<b>690</b> 1-25 2-25	<b>99</b> 12-3		
<b>690 PZD</b> 1-25 2-25 3-25	<b>100</b> -10		
<b>620</b>	<b>119</b> -4		

# S 1006







































## TOOL ASSORTMENT HGV

115 pieces

12.5  
1/2  
20  
3/4

- > For service and repairs
- > Suitable to fit in GEDORE tool trolley workster
- > Recommended hook assortment 1500 HS-1006 (120 pieces)
- > Tools in metric sizes



Contents	 33.3	Code	No.
<b>115 tools in metric sizes</b>		6600940	S 1006
<b>Contents</b>	<b>Contents</b>	<b>Contents</b>	<b>Contents</b>
 <b>1 B 8 9 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 29 30 32</b>	 <b>60 CP 12</b>	 <b>644</b>	
 <b>19 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 30 32</b>	 <b>135 19</b>	 <b>132 -250</b>	
 <b>IN 19 5 6 7 8 9 10 12 14 17</b>	 <b>137 10</b>	 <b>702 20 M</b>	
 <b>1990 -5 -10</b>	 <b>146 10 C</b>	 <b>4534 -3</b>	
 <b>1985</b>	 <b>100 2</b>	 <b>4610</b>	
 <b>1987</b>	 <b>147 7 9 10</b>	 <b>8000 A 2 A 21</b>	
 <b>1995</b>	 <b>2160 PH 1 2 3 4</b>	 <b>8000 J 2 J 21</b>	
 <b>1993 U -10T</b>	 <b>100 -10</b>	 <b>8316 -160 JC</b>	
 <b>32 19 22 24 27 29 30 32 36 38</b>	 <b>97 -200</b>	 <b>248 ST -50</b>	
 <b>3290 -8 -16</b>	 <b>119 -4 -5 -6</b>	 <b>225 E -32</b>	
 <b>3287</b>	 <b>96 -200</b>	 <b>600 H -100 -1500</b>	
 <b>3295</b>	 <b>407</b>	 <b>8701 2 -10</b>	
 <b>3293 U -3</b>	<b>407 A [12x]</b>		

# S 1023

## TOOL ASSORTMENT FOR MECHANICAL ENGINEERS

120 pieces

- > Practical entry-level toolset
- > The range includes mechanical and electrical engineering tools
- > Suitable to fit in GEDORE tool trolley workster
- > Recommended hook assortment no. 1500 HS-1023 (53 pieces)



Contents	13.0	Code	No.
<b>120 tools in metric sizes</b>		1999060	S 1023
<b>Contents</b>	<b>Contents</b>	<b>Contents</b>	<b>Contents</b>
<b>1 B</b> 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<b>VDE 8132</b> -200 H	<b>600 H</b> -500	
<b>D 20</b> 4 5 6 7 8 9 10 11 12 13	<b>VDE 8250</b> -180 H	<b>248 ST</b> -30	
<b>680</b> 4-25 5,5-25 6,5-25	<b>VDE 8314</b> -160 H	<b>8701</b> 2-8	
<b>685</b> 3-25 4-25 5-25 6-25	<b>VDE 2170</b> 4,5,5	<b>8719</b> 2-8	
<b>685 X</b> 5-25 6-25 8-25	<b>VDE 2160 PH</b> 1 2	<b>8722</b> 2-8	
<b>687 TX</b> T10-25 T15-25 T20-25 T25-25 T27-25 T30-25 T40-25	<b>VDE 4616</b>	<b>403</b>	
<b>690</b> 1-25 2-25	<b>4615 3</b>	<b>4528</b>	
<b>690 PZD</b> 1-25 2-25 3-25	<b>171 IS</b> 1,2 1,5,2	<b>710</b>	
<b>620</b>	<b>165 PH</b> 00 0	<b>745</b>	
<b>676</b>	<b>8305</b> -2	<b>4534</b> -3	
<b>699</b>	<b>8306</b> -5	<b>298</b> -04	
<b>2090</b> -4	<b>42</b> 1,3 1,5,2 (5/64AF) 2,5 3 4 5 6 8 10	<b>8354</b> -1	
<b>2093 U-20</b>	<b>97</b> -150	<b>8139</b> -220 TC	
<b>1993 U-20</b>	<b>100</b> -10		
<b>1990</b> -5 -10	<b>119</b> -3 -5		
<b>1995</b>			
<b>1987</b>			
<b>19</b> 8 9 10 11 12 13 14 15 16 17 18 19 21 22 24 27 30 32			

# S 1008

































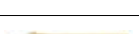
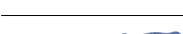






















## MECHANIC'S TOOL ASSORTMENT

138 pieces

- > A useful selection of tools for many jobs
- > Suitable to fit in GEDORE tool trolley workster
- > Recommended hook assortment 1500 HS-1008 (107 pieces)
- > Tools in metric sizes

6,3  
1/4  
12,5  
1/2



Contents	 23.4	Code	No.
<b>138 tools in metric sizes</b>	23.4	6603610	S 1008
 2 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 25x28 30x32	 <b>137 10</b>	 <b>8000 J 2</b>	
 6 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 25x28 30x32	 <b>140</b>	 <b>8250 -180 JC</b>	
 <b>19 8 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 30 32</b>	 <b>143 10 C</b>	 <b>8132 -160 JC</b>	
 <b>1987</b>	 <b>144 7 C</b>	 <b>8316 -160 JC</b>	
 <b>1995</b>	 <b>156 5</b>	 <b>8367 -160 JC</b>	
 <b>1990 -5 -10</b>	 <b>175 1.1/2</b>	 <b>8551 1 2 3 4 5 6 7 8</b>	
 <b>1993 U -10 T</b>	 <b>139 -400</b>	 <b>600 H -500</b>	
 <b>2093 U -3</b>	 <b>100 -10</b>	 <b>248 ST -40</b>	
 <b>20 4 4,5 5,5 6 7 8 9 10 11 13</b>	 <b>99 10-3 12-5</b>	 <b>8701 2-8</b>	
 <b>2087</b>	 <b>97 -125 -150 -200</b>	 <b>8719 2-8</b>	
 <b>2090 -4</b>	 <b>98 -125</b>	 <b>8722 2-8</b>	
 <b>2095</b>	 <b>119 -3 -5</b>	 <b>424026</b>	
 <b>2098</b>	 <b>407</b>	 <b>8728</b>	
 <b>42 2 (5/64AF) 2,5 3 4 5 6 8 10</b>	 <b>640 -1800</b>	 <b>2150 3 4 5,5 6,5 8 10</b>	
 <b>60 CP 8</b>	 <b>132 -200</b>	 <b>2153 6,5</b>	
 <b>298 -04</b>	 <b>710</b>	 <b>2160 PZ 12</b>	
	 <b>745</b>	 <b>2160 PH 12 3</b>	
	 <b>0513-09</b>	 <b>2161 PH 12</b>	
	 <b>4534 -3</b>		
	 <b>8000 A 2</b>		

# S 1007 MECHANIC'S TOOL ASSORTMENT

179 pieces

- > A complete tool assortment for the professional
- > Suitable to fit in GEDORE tool trolley workster
- > Recommended hook assortment 1500 HS-1007 (131 pieces)
- > Tools in metric sizes

6,3  
1/4"  
12,5  
1/2"  
8  
5/16"



Contents	27.5	Code	No.
<b>179 tools in metric sizes</b>		6601080	S 1007
<b>Contents</b>	<b>Contents</b>	<b>Contents</b>	
2 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 25x28 30x32	175 1.1/2	8000 J 1 J 2 J 11 J 21	
6 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 25x28 30x32	139-400	8250 -180 JC	
19 8 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 30 32	100-10	8132 -160 JC	
IN 19 5 6 7 8 9 10 12 14 17	97 -125 -150 -200	8132 AB -160 JC	
1987	98 -125	8316 -160 JC	
1995	119 -2 -3 -4 -5 -6 -8	8367 -160 JC	
1990 -5 -10	404	8551 1 2 3 4 5 6 7 8	
1993 U -10 T	407	600 H -500	
2093 U -3	640 -1800	248 ST -40	
20 4 4,5 5,5 5,6 7 8 9 10 11 13	132 -200	8701 2-8	
2087	710	8719 2-8	
2090 -4	745	8722 2-8	
2095	880 5,5 6,5 8 12	8725 2-8	
2098	885 4 5 6 8 10	424026	
42 2 (5/64AF) 2,5 3 4 5 6 8 10	890 2 3 4	8728	
60 CP 8	887 TX T27 T30 T40 T45	2150 3 4 5,5 6,5 8 10	
298 -04	KB 819	2153 6,5	
137 10	K 1900	2160 PZ 1 2	
140	KB 820	2160 PH 1 2 3	
143 10 C	0513-09	2161 PH 1 2	
144 7 C	4534 -3		
156 5	8000 A 1 A 2 A 11 A 21		

# S 1151 A

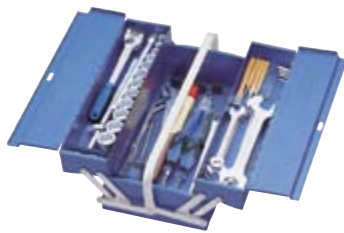
## TOOL ASSORTMENT

### INCH

69 pieces

- > For workshops and service stations
- > Recommended hook assortment  
1500 HS-1151 A (52 pieces)
- > Tools in inch sizes
- > Also available in tool box

12.5  
1/2




1151-1263


























1151-1265



1151-1335

Contents		Code	No.
<b>69 tools in inch sizes</b>	9.4	6607280	S 1151 A
<b>Tool set S 1151 A + tool box 1263 L</b>	15.8	6608410	1151 A-1263
<b>Tool set S 1151 A + tool box 1265 L</b>	17.3	6609220	1151 A-1265
<b>Tool set S 1151 A + tool box 1335 L</b>	18.5	6610740	1151 A-1335

Contents	Contents	Contents
 2 1/4x5/16AF 5/16x3/8AF 3/8x7/16AF 7/16x1/2AF 9/16x5/8AF 19/32x11/16AF 3/4x25/32AF 13/16x7/8AF	 38 16 [2x]	 100 -12
 6 1/4x5/16AF 5/16x3/8AF 7/16x1/2AF 9/16x5/8AF 19/32x11/16AF 3/4x25/32AF 13/16x7/8AF 15/16x1AF	 42 3/32AF 1/8AF 5/32AF 3/16AF 7/32AF (5,5MM) 1/4AF	 99 10-4
 D 19 5/16AF 3/8AF 7/16AF 1/2AF 9/16AF 5/8AF 11/16AF 3/4AF 7/8AF 15/16AF 1AF 1.1/16AF 1.1/4AF	 2150 4,6,5 8	 97 -150
 1990 -3 -5 -10	 2160 PH 2	 625 A
 1987	 50	 4611
 1995	 137 10	 8250 -180 JC
 1993 U -10 T	 145 10 C	 8316 -160 JC
	 299	 8601 1

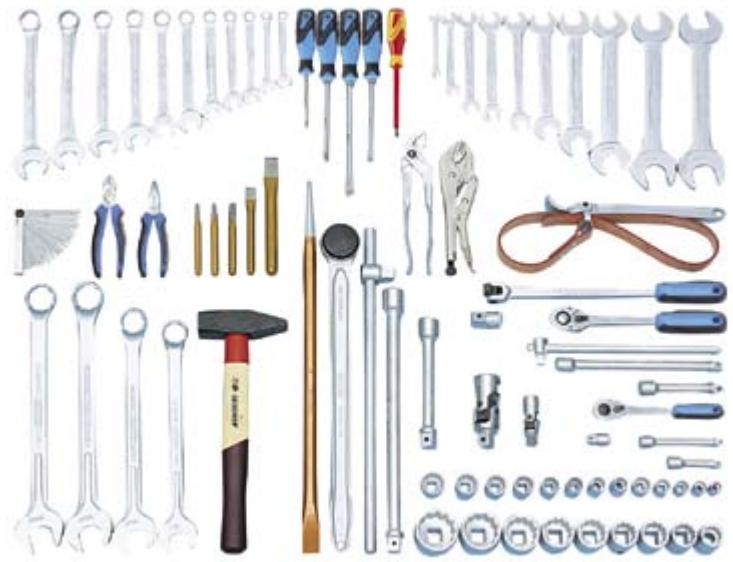


# S 1005 A

## TOOL ASSORTMENT FOR CONSTRUCTION MACHINES



































81 pieces

- > For construction machinery using inch sizes, especially suitable for CATERPILLAR® machines
- > Suitable to fit in GEDORE tool trolley workster
- > Recommended hook assortment 1500 HS-1005 A (81 pieces)
- > Tools in inch sizes



10  
9/16  
12.5  
1/2  
20  
3/4



Contents	 kg	Code	No.
<b>81 tools in inch sizes</b>	22.9	6600510	S 1005 A
 <b>1 B</b> 1.1/16AF 1.1/8AF 1.1/4AF 1.5/16AF	 <b>3090</b> -3 -5	 <b>97</b> -150 -200	
 <b>6</b> 1/4x5/16AF 3/8x7/16AF 1/2x9/16AF 19/32x11/16AF 5/8x3/4AF 13/16x7/8AF 15/16x1AF 1.1/16x1.1/8AF 1.1/4x1.3/8AF 1.5/16x1.1/2AF	 <b>3019</b>	 <b>702</b> 26 A	
 <b>7</b> 3/8AF 7/16AF 1/2AF 9/16AF 5/8AF 11/16AF 3/4AF 13/16AF 7/8AF 15/16AF 1AF	 <b>3093 U</b> -10	 <b>36</b> 2-200	
 <b>D 19</b> 9/16AF 5/8AF 11/16AF 3/4AF 13/16AF 7/8AF 15/16AF 1AF	 <b>D 32</b> 7/8AF 1AF 1.1/16AF 1.1/8AF 1.1/4AF 1.5/16AF 1.1/2AF 1.5/8AF 1.3/4AF	 <b>8132 AB</b> -160 JC	
 <b>1993 U</b> -10 T	 <b>3290</b> -8 -16	 <b>8316</b> -160 JC	
 <b>1990</b> -5 -10	 <b>3287</b>	 <b>600 H</b> -1000	
 <b>1932</b>	 <b>3295</b>	 <b>137</b> -600	
 <b>1987</b>	 <b>3293 U</b> -2	 <b>2150</b> 8 12	
 <b>1995</b>	 <b>137</b> 10	 <b>2160 PH</b> 2 3	
 <b>1997</b>	 <b>145</b> 10 C	 <b>VDE 2170</b> 5,5	
 <b>D 30</b> 7/16AF 1/2AF 9/16AF 5/8AF 3/4AF	 <b>100</b> -12		
	 <b>99</b> 10-4 12-8		

# S 1019








































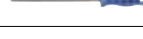







## TOOL ASSORTMENT CARS

157 pieces

- > Ideal for maintenance and service work on cars
- > With torque wrench 1/2", 40-200 N-m
- > Suitable for cars of all brands with metric and TORX® screws
- > Supplied in tool modules 1500 ES
- > Suitable to fit in GEDORE tool trolley workster
- > For work benches 1502, 1504 XL, 1504 models 0511, 0620, 0701, 0810, 1000, 1506 XL models 2511 and 2810

6,3  
1/4"  
12,5  
1/2"



Contents		Code	No.
<b>157 tools</b>		2319926	S 1019
	22.1		
<b>Contents</b>		<b>Contents</b>	<b>Contents</b>
 <b>6</b> 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27		 <b>IKS 19 2 3 4</b>	 <b>119 -3 -4 -5 -6 -7 -8</b>
 <b>7 R</b> 8 10 12 13 14 15 16 17 18 19		 <b>INX 19 8 10</b>	 <b>600 H -500</b>
 <b>400</b> 8x10 10x11 12x14 17x19 13x15		 <b>IN 19 5 6 7 8 9 10 12 14 17</b>	 <b>248 ST -40</b>
 <b>2093 U -10</b>		 <b>IN 19 L 5-90 6-90 8-90 10-140 12-140 14-140</b>	 <b>38 20</b>
 <b>2087</b>		 <b>ITX 19 T20 T25 T27 T30 T40 T45 T50 T55 T60</b>	 <b>643</b>
 <b>2090-4</b>		 <b>ITX 19 L T20-100 T25-100 T27-100 T30-100 T40-100 T45-100 T50-100 T55-100 T60-100</b>	 <b>702 20 M</b>
 <b>2095</b>		 <b>708</b>	 <b>4550 -20</b>
 <b>2098</b>		 <b>142 10 JC</b>	 <b>133 D -150</b>
 <b>20</b> 4 5 5,5 6 7 8 9 10 11 12 13 14		 <b>8132 -160 JC</b>	 <b>132 -150</b>
 <b>IN 20 3 4 5 6 8</b>		 <b>8250 -180 JC</b>	 <b>8701 2-8</b>
 <b>TX 20 E4 E5 E6 E7 E8 E10</b>		 <b>8316 -160 JC</b>	 <b>8719 2-8</b>
 <b>ITX 20 T8 T9 T10 T15 T20 T25 T27 T30 T40</b>		 <b>8000 A 1 2 21</b>	 <b>8722 2-8</b>
 <b>1993 U-20</b>		 <b>8000 J 1 2 21</b>	 <b>8725 2-8</b>
 <b>1987</b>		 <b>2150 4,5,5,6,5,8</b>	 <b>8726</b>
 <b>1995</b>		 <b>2160 PH 1 2</b>	
 <b>1990 -5 -10</b>			
 <b>19</b> 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 30 32			
<b>IS 19</b> 10x1,6 12x2			








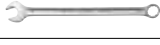









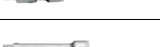






















# S 1022 TOOL ASSORTMENT NFZ

133 pieces

- > Ideal for maintenance and service work on industrial vehicles of all brands with metric and TORX® screws
- > Suitable to fit in GEDORE tool trolley workster
- > For work benches 1502, 1504 XL, 1504 models 0511, 0620, 0701, 0810, 1506 XL models 2511 and 2810

12,5  
1/2  
20  
3/4



Contents		Code	No.
<b>133 tools</b>	45.5	2319934	S 1022
<b>Contents</b>		<b>Contents</b>	<b>Contents</b>
 <b>6</b> 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27		 <b>2150</b> 4 5,5 6,5 8	 <b>135</b> 13 20
 <b>6</b> 30x32 36x41		 <b>2160</b> PH 12	 <b>646</b>
 <b>7 XL</b> 24 27 30 32 34 36 41		 <b>42 KEL</b> 2 2,5 3 4 5 6 8 10	 <b>600 H</b> -500 -1500
 <b>1993 U-20</b>		 <b>142</b> 10 JC	 <b>1500 ED-30</b> [12x]
 <b>1987</b>		 <b>8132</b> -160 JC	
 <b>1995</b>		 <b>8250</b> -180 JC	
 <b>1990</b> -5 -10		 <b>8316</b> -160 JC	
 <b>19</b> 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 30 32		 <b>97</b> -250	
 <b>IN 19</b> 6 7 8 9 10 12 14		 <b>98</b> -125	
 <b>K 19 L</b> 10 13 14 16 17 18 19 21 22 23 24 27		 <b>99</b> 12-5	
 <b>TX 19</b> E10 E11 E12 E14 E16 E18 E20 E24		 <b>100</b> -12	
 <b>ITX 19</b> T20 T25 T27 T30 T40 T45 T50 T55		 <b>119</b> -1,5 -3 -4	
 <b>SL 1916</b>		 <b>600 H</b> -300	
 <b>3293 U</b> -2		 <b>137</b> 10	
 <b>32</b> 22 24 27 30 32 36 38 41 46 50		 <b>403</b>	
 <b>3287</b>		 <b>39</b>	
 <b>3290</b> -8 -16		 <b>8138</b> -200 JC	
 <b>ITX 32</b> T60 T70 T80 T90 T100			


# S 1500 ES-01 MODULE ASSORTMENT SMALL






























104 pieces

6,3  
1/4  
12,5  
1/2

- > General basic range for beginners in all professions
- > Tools in metric sizes
- > Proved GEDORE ES tool modules from ABS
- > For tool trolley workster and workbench 1506 XL models 2511 and 2810



Contents		Code	No.
1500 ES-1 B 1500 ES-19 1500 ES-1993 U-20 1500 ES-20 1500 ES-145 1500 ES-350 1500 ES-2150 PH	12.1	2319845	S 1500 ES-01

Contents	Contents	Contents
 <b>1 B</b> 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 <b>2090-4</b>	 <b>8316</b> -160 JC
 <b>42 2</b> (5/64AF) 2,5 3 4 5 6 8 10	 <b>2095</b>	 <b>97</b> -250
 <b>19</b> 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 30 32	 <b>2098</b>	 <b>98</b> -125
 <b>IN 19</b> 6 7 8 9 10 12 14	 <b>20</b> 4 5 5,5 6 7 8 9 10 11 12 13 14	 <b>99</b> 12-5
 <b>1993 U-20</b>	 <b>IN 20</b> 3 4 5 6 8	 <b>100</b> -12
 <b>1987</b>	 <b>TX 20</b> E4 E5 E6 E7 E8 E10	 <b>119</b> -1,5 -3 -4
 <b>1995</b>	 <b>ITX 20</b> T8 T9 T10 T15 T20 T25 T27 T30 T40	 <b>600 H</b> -300
 <b>1990</b> -5 -10	 <b>142</b> 10 JC	 <b>2150</b> 4,5,5 6,5 8
 <b>2093 U</b> -10	 <b>8132</b> -160 JC	 <b>2160</b> PH 12
 <b>2087</b>	 <b>8250</b> -180 JC	

# S 1500 ES-02 MODULE ASSORTMENT MIDDLE


207 pieces





































- > Basic equipment for the commercial sector or ambitious do-it-yourselfers
- > Tools in metric sizes
- > Proved GEDORE ES tool modules from ABS
- > Suitable to fit in GEDORE tool trolley workster
- > For workbench 1504 models 0701, 0810, 1000, 1506 XL models 2511 and 2810
- > Also available in tool trolley 2004 0620





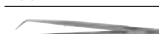






















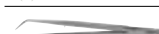


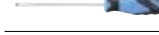



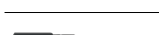











6,3  
1/4"  
12,5  
1/2"  
8  
5/16"



Contents		Code	No.
<b>1500 ES-1 B</b>	29.1	2319853	S 1500 ES-02
<b>1500 ES-6</b>			
<b>1500 ES-19 IS</b>			
<b>1500 ES-ITX 19 LKP</b>			
<b>1500 ES-IN 19 LKM</b>			
<b>1500 ES-1993 U-20</b>			
<b>1500 ES-20</b>			
<b>1500 ES-2133</b>			
<b>1500 ES-7 R</b>	117.1	2657708	1500 ES-02-2004
<b>1500 ES-145</b>			
<b>1500 ES-350</b>			
<b>1500 ES-711</b>			
<b>1500 ES-2150 PH</b>			
<b>1500 ES-K 1900</b>			
<b>1500 ES-8000</b>			
<b>1500 ED-70 K [6x]</b>			
<b>S 1500 ES-02</b>			
<b>+ 2004 0620</b>			

Contents	Contents
 <b>1 B</b> 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 <b>2095</b>
 <b>42 2 (S/64AF)</b> 2,5 3 4 5 6 8 10	 <b>2098</b>
 <b>6 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27</b>	 <b>20 4 5 5,5 6 7 8 9 10 11 12 13 14</b>
 <b>19 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 30 32</b>	 <b>IN 20 3 4 5 6 8</b>
 <b>IS 19 10x1,6 12x2</b>	 <b>TX 20 E4 E5 E6 E7 E8 E10</b>
 <b>IKS 19 2 3 4</b>	 <b>ITX 20 T8 T9 T10 T15 T20 T25 T27 T30 T40</b>
 <b>INX 19 8 10</b>	 <b>2133 5,5 6 7 8 9 10</b>
 <b>ITX 19 T20 T25 T27 T30 T40 T45 T50 T55 T60</b>	 <b>7 R 8 10 12 13 14 15 16 17 18 19</b>
 <b>ITX 19 L T20-100 T25-100 T27-100 T30-100 T40-100 T45-100 T50-100 T55-100 T60-100</b>	 <b>142 10 JC</b>
 <b>708</b>	 <b>8132 -160 JC</b>
 <b>IN 19 5 6 7 8 9 10 12 14 17</b>	 <b>8250 -180 JC</b>
 <b>IN 19 L 5-90 6-90 8-90 10-140 12-140 14-140</b>	 <b>8316 -160 JC</b>
 <b>1993 U-20</b>	 <b>97 -250</b>
 <b>1987</b>	 <b>98 -125</b>
 <b>1995</b>	 <b>99 12-5</b>
 <b>1990 -5 -10</b>	 <b>100 -12</b>
 <b>2093 U -10</b>	 <b>119 -1,5 -3 -4</b>
 <b>2087</b>	
 <b>2090-4</b>	

Contents	Contents
 <b>600 H -300</b>	 <b>140</b>
 <b>140</b>	 <b>4534 -5</b>
 <b>4534 -5</b>	 <b>708</b>
 <b>708</b>	 <b>711</b>
 <b>711</b>	 <b>720</b>
 <b>720</b>	 <b>745</b>
 <b>745</b>	 <b>2150 4,5,5 6,5 8</b>
 <b>2150 4,5,5 6,5 8</b>	 <b>2160 PH 1 2</b>
 <b>2160 PH 1 2</b>	 <b>K 19 10 13 14 17 19</b>
 <b>K 19 10 13 14 17 19</b>	 <b>880 7 8 9 12</b>
 <b>880 7 8 9 12</b>	 <b>885 5 6 8 10</b>
 <b>885 5 6 8 10</b>	 <b>890 1 2 3 4</b>
 <b>890 1 2 3 4</b>	<b>KB 819</b>
<b>KB 819</b>	<b>K 1900</b>
<b>K 1900</b>	<b>8000 A 1 2 21</b>
<b>8000 A 1 2 21</b>	<b>8000 J 1 2 21</b>
<b>8000 J 1 2 21</b>	<b>1500 ED-70 K [6x]</b>
<b>1500 ED-70 K [6x]</b>	

Contents	Contents
 <b>600 H -300</b>	 <b>140</b>
 <b>140</b>	 <b>4534 -5</b>
 <b>4534 -5</b>	 <b>708</b>
 <b>708</b>	 <b>711</b>
 <b>711</b>	 <b>720</b>
 <b>720</b>	 <b>745</b>
 <b>2150 4,5,5 6,5 8</b>	 <b>2160 PH 1 2</b>
 <b>2160 PH 1 2</b>	 <b>K 19 10 13 14 17 19</b>
 <b>K 19 10 13 14 17 19</b>	 <b>880 7 8 9 12</b>
 <b>880 7 8 9 12</b>	 <b>885 5 6 8 10</b>
 <b>885 5 6 8 10</b>	 <b>890 1 2 3 4</b>
 <b>890 1 2 3 4</b>	 <b>KB 819</b>
 <b>KB 819</b>	<b>K 1900</b>
<b>K 1900</b>	<b>8000 A 1 2 21</b>
<b>8000 A 1 2 21</b>	<b>8000 J 1 2 21</b>
<b>8000 J 1 2 21</b>	<b>1500 ED-70 K [6x]</b>
<b>1500 ED-70 K [6x]</b>	

# S 1500 ES-03 MODULE ASSORTMENT LARGE

325 pieces

- > Extensive industrial range for professionals
- > Tools in metric sizes
- > Proved GEDORE ES tool modules from ABS
- > For tool trolleys 2005 models 0810, 2004 models 0810, 1000
- > For workbench 1504 models 0810, 1000, 1504 XL, 1506 XL models 2511, 2810
- > Also available in tool trolley 2004 0810



























2004 0810









Contents				Code	No.
1500 ES-1 B	1500 ES-400	8551-55	2319861	S 1500 ES-03	S 1500 ES-03
1500 ES-19 IS	1500 ES-6	H 42 KEL-88			
1500 ES-1993 U-20	1500 ES-7 R	H 43 KTX-07			
1500 ES-2	1500 ES-711	8728			
1500 ES-2 B	1500 ES-8000	60 P 8			
1500 ES-20	1500 ES-DT 42	137 10			
1500 CTD-20 BIT	1500 ES-IN 19 LKM	4615 3			
1500 ES-2133	1500 ES-ITX 19 LKP	0513-09			
1500 ES-2150 PH	1500 ES-K 1900	1940			
1500 ES-2163 TX	1500 ES-VDE 145				
1500 ES-34	1500 ES-VDE 2170 PZ				
1500 ES-350					
1500 ED-70 K [7x]					
S 1500 ES-03			2657716	1500 ES-03 2004	1500 ES-03 2004 0810
+ 2004 0810					

Contents	Contents	Contents
1 B 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	1987	2090-4
42 2 (S/64AF) 2,5 3 4 5 6 8 10	1995	2095
19 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 30 32	1990 -5 -10	2098
IS 19 10x1,6 12x2	2 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22	20 4 5 5,5 6 7 8 9 10 11 12 13 14
IKS 19 2 3 4	2 B 6x7 8x9 10x11 12x13 14x15 17x19	IN 20 3 4 5 6 8
INX 19 8 10	2093 U -10	TX 20 E4 E5 E6 E7 E8 E10
1993 U-20	2087	ITX 20 T8 T9 T10 T15 T20 T25 T27 T30 T40

Contents	
	<b>20 L</b> 4,4,5 5 6 7 8 9 10 12 13
	<b>680</b> 4-25 5,5-25 6,5-25 8-25
	<b>685</b> 2,5-25 3-25 4-25 5-25 6-25
	<b>685 X</b> 5-25 6-25 8-25
	<b>687 TX</b> T6-25 T7-25 T8-25 T9-25 T10-25 T15-25 T20-25 T25-25 T27-25 T30-25 T40-25
	<b>690</b> 1-25 2-25 3-25
	<b>690 PZD</b> 1-25 2-25 3-25
	<b>673</b> 6,3
	<b>699</b>
	<b>620</b>
	<b>676</b>
	<b>639</b>
	TFK 649 E-649 F
	<b>2133</b> 5,5 6 7 8 9 10
	<b>2150</b> 4 5,5 6,5 8
	<b>2160 PH</b> 1 2
	<b>2163 TX</b> T8 T10 T15 T20 T25 T30
	<b>34</b> 8x9 10x11 12x13 14x15 16x17
	<b>97</b> -250
	<b>98</b> -125
	<b>99</b> 12-5
	<b>100</b> -12
	<b>119</b> -1,5 -3 -4
	<b>600 H</b> -300

Contents	
	<b>400</b> 8x10 10x11 12x14 17x19 13x15
	<b>6</b> 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27
	<b>7 R</b> 8 10 12 13 14 15 16 17 18 19
	<b>140</b>
	<b>4534</b> -5
	<b>708</b>
	<b>711</b>
	<b>720</b>
	<b>745</b>
	<b>8000 A</b> 1 2 21
	<b>8000 J</b> 1 2 21
	<b>DT 2142</b> 2,2,5 3 4 5 6 7 8 10
	<b>IN 19</b> 5 6 7 8 9 10 12 14 17
	<b>IN 19 L</b> 5-90 6-90 8-90 10-140 12-140 14-140
	<b>ITX 19</b> T20 T25 T27 T30 T40 T45 T50 T55 T60
	<b>ITX 19 L</b> T20-100 T25-100 T27-100 T30-100 T40-100 T45-100 T50-100 T55-100 T60-100
	<b>708</b>
	<b>K 19</b> 10 13 14 17 19
	<b>880</b> 7 8 9 12
	<b>885</b> 5 6 8 10
	<b>890</b> 1 2 3 4
	<b>KB 819</b>
	<b>K 1900</b>
	<b>142</b> 10 C

Contents	
	<b>VDE 8250</b> -180 H
	<b>VDE 8132</b> -160 H
	<b>VDE 8314</b> -160 H
	<b>VDE 2170</b> 4,5,5 6,5 8
	<b>VDE 2160 PZ</b> 1 2
	<b>8551</b> 1 2 3 4 5
	<b>42 KEL</b> 2,2,5 3 4 5 6 8 10
	<b>43 KTX</b> T10 T15 T20 T25 T27 T30 T40
	<b>8728</b>
	<b>60 P</b> 8
	<b>137</b> 10
	<b>4615</b> 3
	<b>0513-09</b>
	<b>1940</b>
	<b>1500 ED-70 K</b> [7x]



# MODULE SYSTEM

## 1/3 ES MODULES FROM ABS PLASTIC



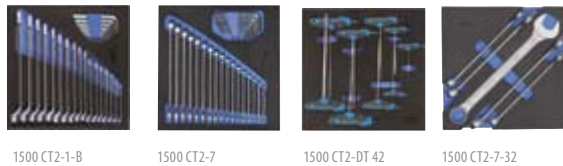
## 1/3 CT MODULES FROM 2-COLOUR FOAM



## 2/3 ES MODULES FROM ABS PLASTIC



## 2/3 CT MODULES FROM 2-COLOUR FOAM



## DISTANCE MODULES



### CT MODULES 2005 CT FOR VOLUME DRAWERS

> 112

#### In 2 sizes:

- > CT4 = 1/1 drawer 2005 (633 x 390 x 35 mm)
- > CT2 = 1/2 drawer 2005 (316.5 x 390 x 35 mm)
- > CT4 suitable for 2005, 1504 XL, 2430
- > CT2 suitable for 1506 XL, 1504 and 2004



# TOOL MODULES

- > For keeping order in the GEDORE tool trolleys and mobile workbenches with variable drawer divisions
- > Dimensions:  
1/3 module = W 157.5 x D 310 mm  
2/3 module = W 315.0 x D 310 mm
- > For models 1502, 1504, 1506 XL, 2004, 2500 please order distance module 1500 ED-70 or 1500 ED-70 K additionally
- > For model 1505 please order 1500 ED-70 or 1500 ED-70 K as well as 1500 ED-150 K additionally
- > For model 2005 and 1504 XL please order 1500 ED-70 XL additionally

## ES Modules 1500 ES

- > From impact-resistant ABS
- > Resistant to oil and acids
- > Each tool is securely held in its own pocket, prevented from slipping and protected from damage
- > Grip recesses facilitate removal of the tools

## CT-Module 1500 CT

- > 2-colour foam insert provides easy optical check of completeness
- > Particularly suited for work in sensitive areas, in which it must be assured that no tools are left behind.
- > Underlay blue, overlay black. A visible blue pocket indicates a missing tool
- > Each tool is securely held in its own pocket, prevented from slipping and protected from damage
- > Grip recesses facilitate removal of the tools
- > Clearly visible tool contours simplify replacement into the correct pocket
- > Resistant to oil and grease
- > Easy to clean with water, soap and a nailbrush



## POSSIBLE COMBINATIONS OF THE MODULES

1578, 1580, 2525



1578

1580

2525



3x 1/3 modules



1x 2/3 modules  
and  
1x 1/3 module

2004, 1502, 1504,  
1506 XL

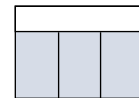


1504

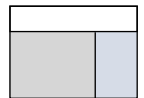
2004

1502

1506 XL



3x 1/3 modules  
3x distance  
module  
1500 ED-70 K\*



1x 2/3 modules  
and  
1x 1/3 module  
3x distance module  
1500 ED-70 K\*

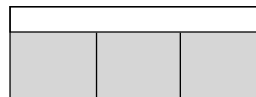
WSL-L7, 2005,  
1504 XL



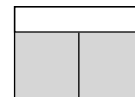
WSL-L7

2005

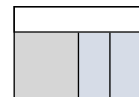
1504 XL



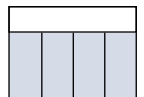
XL drawer 3x 2/3 modules  
2x distance modules 1500 ED-70  
or 1500 ED-70 K



2x 2/3 modules  
1x distance modu-  
le 1500 ED-70 XL



1x 2/3 and  
2x 1/3 modules  
1x distance module  
1500 ED-70 XL



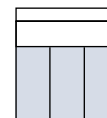
4x 1/3 modules  
1x distance  
module  
1500 ED-70 XL

B 1500 L, 1505

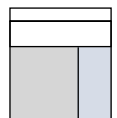


1505

B 1500 L



3x 1/3 modules  
1x distance module  
1500 ED-150 K  
1x distance module  
1500 ED-70



1x 2/3 and  
1x 1/3 modules  
1x distance module  
1500 ED-150 K  
1x distance module  
1500 ED-70

\*When ordering model 2004, 1502 or 1504 2 pieces of 1500 ED-70 K are supplied f.o.c.

## 1500 ES-1 B COMBINATION SPANNER SET

in 2/3 ES tool module



Contents		Code	No.
1 B 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 PH 42-88 (2 2,5 3 4 5 6 8 10)	2.790	6612280	1500 ES-1 B

Description		Code	No.
ES tool module empty	0.250	5620330	1500 E-1B-7 L

## 1500 ES-2 RING SPANNER SET

in 1/3 ES tool module



Contents		Code	No.
2 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22	1.616	6621190	1500 ES-2

Description		Code	No.
ES tool module empty	0.250	5626290	1500 E-2 L

## 1500 ES-2 B RING SPANNER SET, SHORT PATTERN

in 1/3 ES tool module



Contents		Code	No.
2 B 6x7 8x9 10x11 12x13 14x15 17x19	0.630	1731165	1500 ES-2 B

Description		Code	No.
ES tool module empty	0.120	1731173	1500 E-2B-400 L

## 1500 ES-400 SET OF OPEN FLARE NUT SPANNERS

in 1/3 ES tool module



Contents		Code	No.
400 8x10 10x11 12x14 13x15 17x19	0.824	1731157	1500 ES-400

Description		Code	No.
ES tool module empty	0.120	1731173	1500 E-2B-400 L

## 1500 ES-6 OPEN ENDED SPANNER SET

in 1/3 ES tool module



Contents		Code	No.
6 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27	1.702	6621000	1500 ES-6

Description		Code	No.
ES tool module empty	0.250	5626100	1500 E-6-7R L

## 1500 ES-7 COMBINATION SPANNER SET

in 2/3 ES tool module



Contents		Code	No.
7 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 PH 42-88 (2 2,5 3 4 5 6 8 10)	2.232	6612520	1500 ES-7

Description		Code	No.
ES tool module empty	0.250	5620330	1500 E-1B-7 L

## 1500 ES-7-32 COMBINATION SPANNER SET

in 2/3 ES tool module



Contents		Code	No.
7 23 24 27 30 32	2.348	1761145	1500 ES-7-32
Description		Code	No.
<b>ES tool module empty</b>	0.340	1761153	1500 E-7-32 L

## 1500 ES-7 R COMBINATION RATCHET SPANNER SET

in 1/3 ES tool module



Contents		Code	No.
7 R 8 10 12 13 14 15 16 17 18 19	1.500	2305429	1500 ES-7 R
Description		Code	No.
<b>ES tool module empty</b>	0.250	5626100	1500 E-6-7R L

## 1500 ES-34 SWIVEL HEAD WRENCH SET

in 1/3 ES tool module



Contents		Code	No.
34 8x9 10x11 12x13 14x15 16x17	1.272	6605070	1500 ES-34
Description		Code	No.
<b>ES tool module empty</b>	0.150	5622890	1500 E-34 L

## 1500 ES-534 SET COMBINATION SWIVEL HEAD WRENCHES

in 1/3 ES tool module



Contents		Code	No.
534 10 11 13 14 15 17 19 26 RS 1 2	1.614	1813196	1500 ES-534
Description		Code	No.
<b>ES tool module empty</b>	0.140	1813226	1500 E-534 L

## 1500 ES-2133 SOCKET WRENCH SET

in 1/3 ES tool module



Contents		Code	No.
2133 5,5 6 7 8 9 10	1.038	1751239	1500 ES-2133
Description		Code	No.
<b>ES tool module empty</b>	0.140	2823829	1500 E-2133 L

## 1500 ES-20 SOCKET SET 1/4"

in 1/3 ES tool module



Contents		Code	No.
20 4 5 5,5 6 7 8 9 10 11 12 13 14	1.066	6626230	1500 ES-20
IN 20 3 4 5 6 8			
ITX 20 T8 T9 T10 T15 T20 T25 T27 T30 T40			
TX 20 E4 E5 E6 E7 E8 E10			
2087 2090-4 2095 2098 2093 U-10			
Description		Code	No.
<b>ES tool module empty</b>	0.140	5621490	1500 E-20 L

## 1500 ES-30 SOCKET SET 3/8"

in 1/3 ES tool module



Contents	kg	Code	No.
30 6 7 8 9 10 11 12 13 14 15 16 17 18 19	1.830	6626070	1500 ES-30
IN 30 4 5 6 8 10			
3095 3087 3090-5 -10 3093 U-10			

Description	kg	Code	No.
ES tool module empty	0.140	5621220	1500 E-30 L

10  
3/8"

## 1500 ES-ITX 30 SCREWDRIVER BIT SOCKET SET 3/8"

in 1/3 ES tool module



Contents	kg	Code	No.
IN 30 L 4 5 6 7 8 10	2.346	1640860	1500 ES-ITX 30
ITX 30 T20 T25 T27 T30 T40 T45 T50			
ITX 30 L T20 T25 T27 T30 T40 T45 T50			
TX 30 E5 E6 E7 E8 E10 E11 E12 E14			
IS 30 5,5 6,5 8 10 12			
IKS 30 1 2 3			
IKS 30 PZD 1 2 3			

Description	kg	Code	No.
ES tool module empty	0.140	1643363	1500 E-ITX 30 L

10  
3/8"

## 1500 ES-19 SOCKET SET 1/2", HEXAGON

in 1/3 ES tool module



Contents	kg	Code	No.
19 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 30 32	2.956	6626580	1500 ES-19
IN 19 6 7 8 9 10 12 14			

Description	kg	Code	No.
ES tool module empty	0.140	5621650	1500 E-19 L

12.5  
1/2"

## 1500 ES-D 19 SOCKET SET 1/2", UD PROFILE

in 1/3 ES tool module



Contents	kg	Code	No.
D 19 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 30 32	2.900	1899694	1500 ES-D 19
IN 19 6 7 8 9 10 12 14			

Description	kg	Code	No.
ES tool module empty	0.140	5621650	1500 E-19 L

12.5  
1/2"

## 1500 ES-19 IS SOCKET SET 1/2"

in 1/3 ES tool module



Contents	kg	Code	No.
19 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 30 32	2.984	1733109	1500 ES-19 IS
IS 19 10x1,6 12x2			
IKS 19 2 3 4			
INX 19 8 10			

Description	kg	Code	No.
ES tool module empty	0.140	5621650	1500 E-19 L

12.5  
1/2"

## 1500 ES-IN 19 LKM SCREWDRIVER BIT SOCKET SET 1/2"

in 1/3 ES tool module



Contents	kg	Code	No.
IN 19 5 6 7 8 9 10 12 14 17	2.124	1402234	1500 ES-IN 19 LKM
IN 19 L 5-90 6-90 8-90 10-140 12-140 14-140			

Description	kg	Code	No.
ES tool module empty	0.150	1402714	1500 E-IN 19 LKM

12.5  
1/2"

## 1500 ES-ITX 19 LKP SCREWDRIVER BIT SOCKET SET 1/2"

in 1/3 ES tool module



Contents	kg	Code	No.
ITX 19 T20 T25 T27 T30 T40 T45 T50 T55 T60	2.156	1402226	1500 ES-ITX 19 LKP
ITX 19 L T20-100 T25-100 T27-100 T30-100 T40-100 T45-100 T50-100 T55-100 T60-100			708

Description	kg	Code	No.
ES tool module empty	0.150	1402706	1500 E-ITX 19 LKP

## 1500 ES-1993 U-20 ACCESSORIES FOR SOCKET WRENCHES 1/2"

in 1/3 ES tool module



Contents	kg	Code	No.
1993 U-20 1987 1995 1990-5 -10	1.191	1550756	1500 ES-1993 U-20

Description	kg	Code	No.
ES tool module empty	0.140	5621810	1500 E-1993 L

## 1500 ES-1993 T ACCESSORIES FOR SOCKET WRENCHES 1/2"

in 1/3 ES tool module



Contents	kg	Code	No.
1993 U-10 T 1987 1995 1990-5 -10	1.984	6626740	1500 ES-1993 T

Description	kg	Code	No.
ES tool module empty	0.140	5621810	1500 E-1993 L

## 1500 ES-K 19 L SET IMPACT SOCKETS 1/2"

in 1/3 ES tool module



Contents	kg	Code	No.
K 19 L 10 13 14 16 17 18 19 21 22 23 24 27	3.394	1640836	1500 ES-K 19 L

Description	kg	Code	No.
ES tool module empty	0.120	1643371	1500 E-K 19 L L

## 1500 ES-K 1900 IMPACT DRIVER SET

in 1/3 ES tool module



Contents	kg	Code	No.
K 19 10 13 14 17 19 880 7 8 9 12 885 5 6 8 10 890 1 2 3 4 KB 819 K 1900	1.900	1402242	1500 ES-K 1900

Description	kg	Code	No.
ES tool module empty	0.150	1402722	1500 E-K 1900 L

## 1500 ES-DT 2142 HEXAGON SOCKET KEY SET

in 2/3 ES tool module



Contents	kg	Code	No.
DT 2142 2 2,5 3 4 5 6 7 8 10	1.337	1543474	1500 ES-DT 2142

Description	kg	Code	No.
ES tool module empty	0.270	1543490	1500 E-DT 2142 L

## 1500 ES-2150 PH SCREWDRIVER SET

in 1/3 ES tool module



Contents		Code	No.
⊖ 2150 4 5,5 6,5 8	0.820	1523708	1500 ES-2150 PH
⊕ 2160 PH 1 2			

Description		Code	No.
ES tool module empty	0.140	2823829	1500 E-2133 L

## 1500 ES-2150 PZ SCREWDRIVER SET

in 1/3 ES tool module



Contents		Code	No.
⊖ 2150 4 5,5 6,5 8	0.846	1523694	1500 ES-2150 PZ
⊕ 2160 PZ 1 2			

Description		Code	No.
ES tool module empty	0.140	2823829	1500 E-2133 L

## 1500 ES-2163 TX SCREWDRIVER SET

in 1/3 ES tool module



Contents		Code	No.
⊕ 2163 TX T8 T10 T15 T20 T25 T30	0.638	1582666	1500 ES-2163 TX

Description		Code	No.
ES tool module empty	0.140	2823829	1500 E-2133 L

## 1500 ES-2163 TXB SCREWDRIVER SET

in 1/3 ES tool module



Contents		Code	No.
⊕ 2163 TXB T10 T15 T20 T25 T30 T40	0.724	1616625	1500 ES-2163 TXB

Description		Code	No.
ES tool module empty	0.140	2823829	1500 E-2133 L

## 1500 ES-VDE 2170 PZ VDE SCREWDRIVER SET

in 1/3 ES tool module



1000 V



Contents		Code	No.
⊖ VDE 2170 4 5,5 6,5 8	0.846	1733095	1500 ES-VDE 2170 PZ
⊕ VDE 2160 PZ 1 2			

Description		Code	No.
ES tool module empty	0.140	2823829	1500 E-2133 L

## 1500 ES-145 PLIERS SET

in 1/3 ES tool module



Contents		Code	No.
142 10 JC	1.400	6614650	1500 ES-145
8250-180 JC			
8132-160 JC			
8316-160 JC			

Description		Code	No.
ES tool module empty	0.140	5620840	1500 E-145 L

## 1500 ES-VDE 145 VDE PLIERS SET

in 1/3 ES tool module



Contents	kg	Code	No.
<b>142 10 C</b> <b>VDE 8250-180 H VDE 8132-160 H VDE 8314-160 H</b>	1.320	1733079	1500 ES-VDE 145

Description	kg	Code	No.
<b>ES tool module empty</b>	0.140	5620840	1500 E-145 L

## 1500 ES-8000 CIRCLIP PLIERS

in 1/3 ES tool module



Contents	kg	Code	No.
<b>8000 A 1 8000 A 2 8000 A 21</b> <b>8000 J 1 8000 J 2 8000 J 21</b>	1.136	1402196	1500 ES-8000

Description	kg	Code	No.
<b>ES tool module empty</b>	0.150	1446479	1500 E-8000 L

## 1500 ES-137 GRIP WRENCH SET

in 1/3 ES tool module



Contents	kg	Code	No.
<b>137 7 137 10</b> <b>137 KR-7</b> <b>138 Y</b>	1.970	2188198	1500 ES-137

Description	kg	Code	No.
<b>ES tool module empty</b>	0.140	2188139	1500 E-137 L

## 1500 ES-350 CHISEL SET

in 1/3 ES tool module



Contents	kg	Code	No.
<b>97-250 98-125 99 12-5 100-12</b> <b>119-1,5 3 4</b> <b>600 H-300</b>	1.818	6613760	1500 ES-350

Description	kg	Code	No.
<b>ES tool module empty</b>	0.140	5620680	1500 E-350 L

## 1500 ES-711 PRECISION MECHANICS

in 1/3 ES tool module



Contents	kg	Code	No.
<b>140</b> <b>4534-5</b> <b>708 711 720 745</b>	0.972	1402218	1500 ES-711

Description	kg	Code	No.
<b>ES tool module empty</b>	0.150	1402692	1500 E-711 L

## 1500 ES-1.07 PULLER SET

in 1/3 ES tool module

> **Contents:** 1 cross-beam each 2- and 3-arm pattern (clamping reach 90 mm), 1 spindle, and 3 slim quick-release pulling legs (clamping depth 100 mm)



Contents	kg	Code	No.
<b>1x 106/103 1x 107/103</b> <b>1x 1.1406140</b> <b>3x 106/S100-E</b>	1.980	1933213	1500 ES-1.07

Description	kg	Code	No.
<b>ES tool module empty</b>	0.200	1933248	1500 E-1.07 L

## 1500 E-N L TOOL MODULE EMPTY

- > Impact resistant ABS, black grained
- > Dimensions: W 157.5 x D 310 mm (1/3 module)



W	D	H		Code	No.
158	310	42	0.250	5622540	1500 E-N L

## 1500 E-S L TOOL MODULE EMPTY

- > With compartments for small parts
- > Impact resistant ABS, black grained
- > Dimensions:  
W 157.5 x D 310 mm  
(1/3 module)



W	D	H		Code	No.
158	310	42	0.150	1879227	1500 E-S L

## 1500 ED-30 DISTANCE MODULE EMPTY

- > For fixing modules 1500 ES in drawer sizes W 480 x D 350 mm
- > Impact resistant ABS, black grained
- > Dimensions: W 157 x D 30 x H 42 mm



W	D	H		Code	No.
157	30	42	0.030	5626370	1500 ED-30

## 1500 ED-70 DISTANCE MODULE WITH SMALL BOXES

- > For fixing modules 1500 ES in drawer sizes W 480 x L 400 mm of tool trolley 2004 and workbenches 1502, 1504, 1505 and 1506 XL
- > Module in sheet steel containing four practical transparent plastic boxes for small parts, lid easily removable, execution L without boxes
- > Dimensions: W 475 x D 77 x H 40 mm



W	D	H		Code	No.
475	77	40	0.900	6627120	1500 ED-70
475	77	40	0.750	5627930	1500 ED-70 L

## 1500 ED-70 K DISTANCE MODULE EMPTY

- > For fixing modules 1500 ES in drawers with depth 400 mm of tool trolley 2004 and workbenches 1502, 1504, 1505 and 1506 XL
- > Impact resistant ABS, black grained
- > Dimensions: W 475 x D 77 x H 40 mm



W	D	H		Code	No.
475	77	40	0.120	1618687	1500 ED-70 K

## 1500 ED-70 S DISTANCE MODULE 1/3 EMPTY

- > For tool trolley workster and 2005, workbench 1504 XL and tool chest 2430, suitable as distance piece for module 1/3
- > Module in sheet steel
- > Dimensions: W 152 x D 77 x H 40 mm



W	D	H		Code	No.
152	77	40	0.150	1851462	1500 ED-70 S

## 1500 ED-70 XL DISTANCE MODULE EMPTY

- > Suitable to take torque wrenches and other long hand tools or small pieces
- > For tool trolley workster and 2005, workbench 1504 XL and tool chest 2430
- > Module in sheet steel
- > Dimensions: W 625 x D 77 x H 40 mm



W	D	H		Code	No.
625	77	40	0.854	1803069	1500 ED-70 XL




## 1500 ED-85

### DISTANCE MODULE EMPTY

- > Module in sheet steel
- > Dimensions: W 538 x D 85 x H 40 mm




W	D	H		Code	No.
538	85	40	0.845	1972588	1500 ED-85

## 1500 ED-150 K

### DISTANCE MODULE EMPTY

- > Suitable to take torque wrenches and other long hand tools or small pieces
- > Impact resistant ABS, black grained
- > Dimensions: W 480 x D 150 x H 42 mm



W	D	H		Code	No.
480	150	42	0.150	1879243	1500 ED-150 K




## CT Tool Modules


## 1500 CT2-1 B

### COMBINATION SPANNER SET

in 2/3 CT tool module



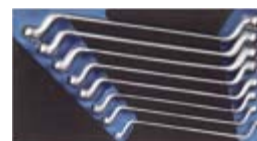
Contents		Code	No.
 1 B 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	2.385	2308819	1500 CT2-1 B
 PH 42-88 (2 2,5 3 4 5 6 8 10)			



Description		Code	No.
CT module empty	0.070	2322277	EI-1500 CT2-1B L


## 1500 CT1-2

### RING SPANNER SET

in 1/3 CT tool module



Contents		Code	No.
 2 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22	1.360	2308827	1500 CT1-2



Description		Code	No.
CT module empty	0.050	2322285	EI-1500 CT1-2 L

## 1500 CT1-2 B

### RING SPANNER SET, SHORT PATTERN

in 1/3 CT tool module



Contents		Code	No.
 2 B 6x7 8x9 10x11 12x13 14x15 17x19	0.376	2308843	1500 CT1-2 B



Description		Code	No.
CT module empty	0.050	2322293	EI-1500 CT1-2B L

## 1500 CT1-400

### SET OF OPEN FLARE NUT SPANNERS

in 1/3 CT tool module



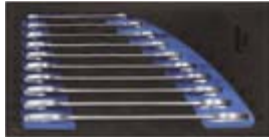
Contents		Code	No.
 400 8x10 10x11 12x14 13x15 17x19	0.565	2309068	1500 CT1-400

Description		Code	No.
CT module empty	0.050	2324210	EI-1500 CT1-400 L

## 1500 CT1-6

### OPEN ENDED SPANNER SET

in 1/3 CT tool module



Contents		Code	No.
6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27	1.440	2308851	1500 CT1-6
Description		Code	No.
CT module empty	0.050	2322307	EI-1500 CT1-6 L

## 1500 CT2-7

### COMBINATION SPANNER SET

in 2/3 CT tool module

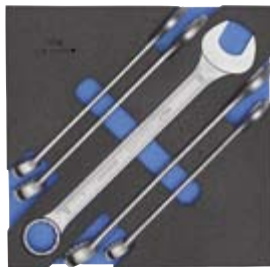


Contents		Code	No.
7 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 ● PH 42-88 (2 2,5 3 4 5 6 8 10)	1.750	2308878	1500 CT2-7
Description		Code	No.
CT module empty	0.070	2324164	EI-1500 CT2-7 L

## 1500 CT2-7-32

### COMBINATION SPANNER SET

in 2/3 CT tool module

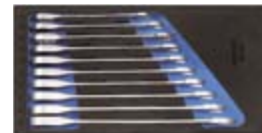


Contents		Code	No.
7 23 24 27 30 32	1.865	2308886	1500 CT2-7-32
Description		Code	No.
CT module empty	0.070	2324172	EI-1500 CT2-7-32 L

## 1500 CT1-7 R

### COMBINATION RATCHET SPANNER SET

in 1/3 CT tool module

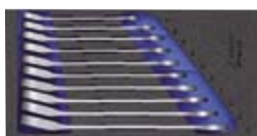


Contents		Code	No.
7 R 8 10 12 13 14 15 16 17 18 19	1.240	2308894	1500 CT1-7 R
Description		Code	No.
CT module empty	0.050	2322315	EI-1500 CT1-7R-URL

## 1500 CT1-7 UR

### COMBINATION RATCHET SPANNER SET

in 1/3 CT tool module



Contents		Code	No.
7 UR 8 10 12 13 14 15 16 17 18 19	1.245	2331969	1500 CT1-7 UR
Description		Code	No.
CT module empty	0.050	2322315	EI-1500 CT1-7R-URL

## 1500 CT1-7 RA

### COMBINATION RATCHET SPANNER SET

in 1/3 CT tool module



Contents		Code	No.
7 R 8 10 12 13 14 15 16 17 18 19 7 RA-12,5 -10 -6,3 7 RB-6,3	1.270	2327686	1500 CT1-7 RA
Description		Code	No.
CT module empty	0.050	2327708	EI-1500 CT1-7RA-URL

## 1500 CT1-7 URA COMBINATION RATCHET SPANNER SET

in 1/3 CT tool module



Schlüsselkammer  
R-Serie



Contents	kg	Code	No.
7 UR 8 10 12 13 14 15 16 17 18 19 7 RA-12,5 -10 -6,3 7 RB-6,3	1.280	2327678	1500 CT1-7 URA

Description	kg	Code	No.
CT module empty	0.050	2327708	EI-1500 CT1-7RA-URA L

## 1500 CT1-34 SWIVEL HEAD WRENCH SET

in 1/3 CT tool module



Contents	kg	Code	No.
34 8x9 10x11 12x13 14x15 16x17	1.035	2308991	1500 CT1-34

Description	kg	Code	No.
CT module empty	0.050	2322404	EI-1500 CT1-34 L

## 1500 CT1-534 SET COMBINATION SWIVEL HEAD WRENCHES

in 1/3 CT tool module

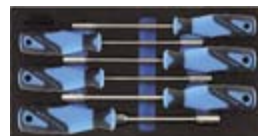


Contents	kg	Code	No.
534 10 11 13 14 15 17 19 26 RS 1 2	1.405	2309076	1500 CT1-534

Description	kg	Code	No.
CT module empty	0.050	2322455	EI-1500 CT1-534 L

## 1500 CT1-2133 SOCKET WRENCH SET

in 1/3 CT tool module



Contents	kg	Code	No.
2133 5,5 6 7 8 9 10	0.820	2309122	1500 CT1-2133

Description	kg	Code	No.
CT module empty	0.050	2322501	EI-1500 CT1-2133 L

## 1500 CT1-20 SOCKET SET 1/4"

in 1/3 CT tool module

6.3  
1/4"



Contents	kg	Code	No.
20 4 5 5,5 6 7 8 9 10 11 12 13 14 IN 20 3 4 5 6 8 ITX 20 T8 T9 T10 T15 T20 T25 T27 T30 T40 TX 20 E4 E5 E6 E7 E8 E10 2087 2090-4 2095 2098 2093 U-10	0.845	2308967	1500 CT1-20

Description	kg	Code	No.
CT module empty	0.050	2322374	EI-1500 CT1-20 L

# 1500 CTD-20 BIT TOOL MODULE 1/4"

with assortment



- > Only suitable for tool trolley 2004, and workbenches 1502, 1504, 1505 and 1506 XL
- > For models 2005, workster, 2430 and 1504 XL with distance module 1500 ED-70 S
- > Dimensions: W 475 x D 77 x H 40 mm



Contents	kg	Code	No.
<ul style="list-style-type: none"> <li>20 L 4 4,5 5 6 7 8 9 10 12 13</li> <li>680 4 5,5 6,5 8</li> <li>685 2,5 3 4 5 6</li> <li>685 X 5 6 8</li> <li>687 TX T6 T7 T8 T9 T10 T15 T20 T25 T27 T30 T40</li> <li>690 1 2 3</li> <li>690 PZD 1 2 3</li> </ul>	0.700	1733419	1500 CTD-20 BIT
649 673 6,3 699 620 676 639			

# 1500 CT1-30 SOCKET SET 3/8"

in 1/3 CT tool module



Contents	kg	Code	No.
<ul style="list-style-type: none"> <li>30 6 7 8 9 10 11 12</li> <li>13 14 15 16 17 18 19</li> <li>IN 30 4 5 6 8 10</li> <li>3095 3087 3090-5 -10</li> <li>3093 U-10</li> </ul>	1.670	2308975	1500 CT1-30

Description	kg	Code	No.
CT module empty	0.050	2322382	EI-1500 CT1-30 L

# 1500 CT1-ITX 30 SCREWDRIVER BIT SOCKET SET 3/8"

in 1/3 CT tool module



Contents	kg	Code	No.
<ul style="list-style-type: none"> <li>IN 30 L 4 5 6 7 8 10</li> <li>ITX 30 T20 T25 T27 T30 T40 T45 T50</li> <li>ITX 30 L T20 T25 T27 T30 T40 T45 T50</li> <li>TX 30 E5 E6 E7 E8 E10 E11 E12 E14</li> <li>IS 30 5,5 6,5 8 10 12</li> <li>IKS 30 1 2 3</li> <li>IKS 30 PZD 1 2 3</li> </ul>	2.175	2308983	1500 CT1-ITX 30

Description	kg	Code	No.
CT module empty	0.050	2322390	EI-1500 CT1-ITX30 L

# 1500 CT1-19 SOCKET SET 1/2", HEXAGON

in 1/3 CT tool module



Contents	kg	Code	No.
<ul style="list-style-type: none"> <li>19 10 11 12 13 14 15 16 17 18</li> <li>19 21 22 23 24 26 27 28 30 32</li> <li>IN 19 6 7 8 9 10 12 14</li> </ul>	2.790	2308908	1500 CT1-19

Description	kg	Code	No.
CT module empty	0.047	2322323	EI-1500 CT1-19 L

# 1500 CT1-D 19 SOCKET SET 1/2", UD PROFILE

in 1/3 CT tool module



Contents	kg	Code	No.
<ul style="list-style-type: none"> <li>D 19 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 30 32</li> <li>IN 19 6 7 8 9 10 12 14</li> </ul>	2.680	2308916	1500 CT1-D 19

Description	kg	Code	No.
CT module empty	0.047	2322323	EI-1500 CT1-19 L

## 1500 CT1-19 IS SOCKET SET 1/2"

in 1/3 CT tool module



Contents		Code	No.
<ul style="list-style-type: none"> <li>● 19 10 11 12 13 14 15 16 17 18 19 21</li> <li>22 23 24 26 27 28 30 32</li> <li>● IS 19 10x1,6 12x2</li> <li>● IKS 19 2 3 4</li> <li>● INX 19 8 10</li> </ul>	2.765	2308924	1500 CT1-19 IS

Description		Code	No.
CT module empty	0.050	2322331	EI-1500 CT1-19 IS L

## 1500 CT1-INX 19 LK SCREWDRIVER BIT SOCKET SET 1/2"

in 1/3 CT tool module



Contents		Code	No.
<ul style="list-style-type: none"> <li>● INX 19 8 10 12 14 16 18</li> <li>● INX 19 L 6-100 8-100 10-100 12-100 14-100</li> </ul>	1.044	2957957	1500 CT1-INX 19 LK

Description		Code	No.
CT module empty	0.050	2957949	EI-1500 CT1-INX 19 LK

## 1500 CT1-1993 U-20 ACCESSORIES FOR SOCKET WRENCHES 1/2"

in 1/3 CT tool module



Contents		Code	No.
<ul style="list-style-type: none"> <li>1993 U-20</li> <li>1987 1995</li> <li>1990-5 -10</li> </ul>	1.700	2309114	1500 CT1-1993 U-20

Description		Code	No.
CT module empty	0.050	2322498	EI-1500 CT1-1993 L

## 1500 CT1-IN 19 LKM SCREWDRIVER BIT SOCKET SET 1/2"

in 1/3 CT tool module



Contents		Code	No.
<ul style="list-style-type: none"> <li>● IN 19 5 6 7 8 9 10 12 14 17</li> <li>● IN 19 L 5-90 6-90 8-90 10-140 12-140 14-140</li> </ul>	1.900	2308932	1500 CT1-IN 19 LKM

Description		Code	No.
CT module empty	0.050	2957647	EI-1500 CT1-IN 19 LKM

## 1500 CT1-ITX 19 LKP SCREWDRIVER BIT SOCKET SET 1/2"

in 1/3 CT tool module



Contents		Code	No.
<ul style="list-style-type: none"> <li>● ITX 19 T20 T25 T27 T30 T40 T45 T50 T55 T60</li> <li>● ITX 19 L T20-100 T25-100 T27-100 T30-100 T40-100 T45-100 T50-100 T55-100 T60-100 708</li> </ul>	1.915	2308940	1500 CT1-ITX 19 LKP

Description		Code	No.
CT module empty	0.050	2322366	EI-1500 CT1-ITX19LKP L

## 1500 CT1-1993 T ACCESSORIES FOR SOCKET WRENCHES 1/2"

in 1/3 CT tool module



Contents		Code	No.
<ul style="list-style-type: none"> <li>1993 U-10 T</li> <li>1987 1995</li> <li>1990-5 -10</li> </ul>	1.765	2309106	1500 CT1-1993 T

Description		Code	No.
CT module empty	0.050	2322498	EI-1500 CT1-1993 L



## 1500 CT1-K 1900 IMPACT DRIVER SET

in 1/3 CT tool module



Contents		Code	No.
○ K 19 10 13 14 17 19	2.645	2309092	1500 CT1-K 1900
○ K 19 LS 17 19 21 22			
⊖ 880 7 8 9 12			
● 885 5 6 8 10			
⊕ 890 1 2 3 4			
KB 819 K 1900			

Description		Code	No.
CT module empty	0.050	2322471	EI-1500 CT1-K1900 L



## 1500 CT2-DT 2142 HEXAGON SOCKET KEY SET

in 2/3 CT tool module



Contents		Code	No.
● DT 2142 2,5 3 4 5 6 7 8 10	0.900	2309009	1500 CT2-DT 2142

Description		Code	No.
CT module empty	0.070	2322412	EI-1500 CT2-DT2142

## 1500 CT1-2150 PH SCREWDRIVER SET

in 1/3 CT tool module



Contents		Code	No.
⊖ 2150 4 5,5 6,5 8	0.630	2309130	1500 CT1-2150 PH
⊕ 2160 PH 1 2			

Description		Code	No.
CT module empty	0.050	2322528	EI-1500 CT1-2150 L

## 1500 CT1-2150 PZ SCREWDRIVER SET

in 1/3 CT tool module

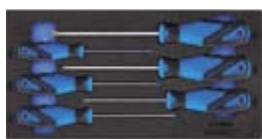


Contents		Code	No.
⊖ 2150 4 5,5 6,5 8	0.630	2309149	1500 CT1-2150 PZ
⊕ 2160 PZ 1 2			

Description		Code	No.
CT module empty	0.050	2322528	EI-1500 CT1-2150 L

## 1500 CT1-2163 TX SCREWDRIVER SET

in 1/3 CT tool module



Contents		Code	No.
● 2163 TX T8 T10 T15 T20 T25 T30	0.400	2309157	1500 CT1-2163 TX

Description		Code	No.
CT module empty	0.050	2322544	EI-1500 CT1-2163TX L

## 1500 CT1-2163 TXB SCREWDRIVER SET

in 1/3 CT tool module



Contents		Code	No.
● 2163 TXB T10 T15 T20 T25 T30 T40	0.500	2309165	1500 CT1-2163 TXB

Description		Code	No.
CT module empty	0.050	2324237	EI-1500 CT1-2163TXB L

## 1500 CT1-VDE 2170 PZ VDE SCREWDRIVER SET

in 1/3 CT tool module



Contents		Code	No.
⊖ VDE 2170 4 5,5 6,5 8	0.625	2309173	1500 CT1-VDE 2170 PZ
⊕ VDE 2160 PZ 1 2			

Description		Code	No.
CT module empty	0.050	2322552	EI-1500 CT1-VDE2170PZ L

## 1500 CT1-142 PLIERS SET

in 1/3 CT tool module



Contents		Code	No.
142 10 JC	1.220	2309025	1500 CT1-142
8250-180 JC 8132-160 JC 8316-160 JC			

Description		Code	No.
CT module empty	0.050	2322420	EI-1500 CT1-142 L

## 1500 CT1-VDE 142 VDE PLIERS SET

in 1/3 CT tool module



Contents		Code	No.
142 10 C	1.160	2309033	1500 CT1-VDE 142
VDE 8250-180 H VDE 8132-160 H VDE 8314-160 H			

Description		Code	No.
CT module empty	0.050	2322439	EI-1500 CT1-VDE142 L

## 1500 CT1-8000 CIRCLIP PLIERS

in 1/3 CT tool module

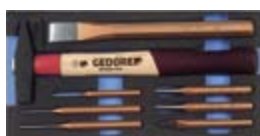


Contents		Code	No.
8000 A 1 8000 A 2 8000 A 21	1.010	2309181	1500 CT1-8000
8000 J 1 8000 J 2 8000 J 21			

Description		Code	No.
CT module empty	0.050	2322560	EI-1500 CT1-8000 L

## 1500 CT1-350 CHISEL SET

in 1/3 CT tool module



Contents		Code	No.
97-250 98-125 99 12-5	1.425	2309041	1500 CT1-350
100-12			
119-1,5 3 4			
600 H-300			

Description		Code	No.
CT module empty	0.050	2322447	EI-1500 CT1-350 L

## 1500 CT1-711 PRECISION MECHANICS

in 1/3 CT tool module



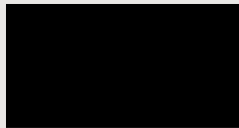
Contents		Code	No.
140	0.930	2309084	1500 CT1-711
4534-5			
708			
711 720 745			

Description		Code	No.
CT module empty	0.050	2322463	EI-1500 CT1-711 L



# CT MODULES 2005 CT FOR XL VOLUME DRAWERS

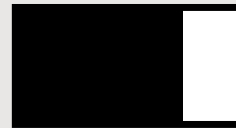
IN 3 SIZES:



- > CT4 = 1/1 drawer 2005, workster (633 x 390 x 35 mm)
- > CT4 suitable for 2005, workster, 1504 XL, 2430



- > CT2 = 1/2 drawer 2005, workster (316.5 x 390 x 35 mm)
- > CT2 suitable for 1506 XL, 1504 and 2004



- > CT3 = 3/4 drawer 2005, workster (472.5 x 390 x 50 mm)
- > CT3 suitable for B 1500, 1502, 1505, 1504, 1504 XL, 1506, 2004, 2005, workster

## 2005 CT4-U-20 SOCKET SET 1/4"-3/8"-1/2"

in 4/4 CT tool module

> Dimensions: 633 x 390 x 35 mm



6.3  
1/4"  
10  
3/8"  
12.5  
1/2"

Contents		Code	No.
○ 20 5,5 6 7 8 9 10 11 12 13 14	3093 U-20	7.4	2016257
2093 U-20	3090 A-5 -10		2005 CT4-U-20
2093 U-3 T	3095		
2090-4 -6	⊗ D 19 10 11 12 13 14 15 16 17 18 19 21 22 23 24 27 30 32		
2095	1993 U-20		
⊗ D 30 8 9 10 11 12 13 14 15 16 17 18 19 21 22	1990-5 -10		
● IN 30 L 4 5 6 7 8 10	1930		
⊗ ITX 30 L T20 T25 T27 T30 T40 T45 T50	1995		
⊗ TX 30 E5 E6 E7 E8 E10 E11 E12 E14	1996		
⊕ IKS 30 1 2 3			
⊕ IKS 30 PZD 1 2 3			
⊖ IS 30 5,5 6,5 8 10 12			
52 53 56			

## 2005 CT2-D 19 SOCKET SET 1/2"

in 2/4 CT tool module

> Dimensions: 316.5 x 390 x 35 mm



12.5  
1/2"

Contents		Code	No.
⊗ D 19 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 32 34 36	4.4	2016494	2005 CT2-D 19
1990-5 -10			
1993 U-20			
1995			
1996			



## 2005 CT2-D 30 SOCKET SET 3/8"

in 2/4 CT tool module

> Dimensions:  
316.5 x 390 x 35 mm



10  
3/8"



Contents	kg	Code	No.
Ⓢ D 30 10 11 12 13 14 15 16 17 18 19 20 21 22 Ⓢ D 30 L 10 13 17 19 22 Ⓢ D 30 1/4 5/16 3/8 13/32 7/16 52 53 56 1/2 9/16 19/32 5/8 11/16 3/4 3090-3 -5 -10 13/16 25/32 7/8 15/16 1" 3093 U-20 3095 3096	3.4	2016486	2005 CT2-D 30

## 2005 CT2-D 20 SOCKET SET 1/4"

in 2/4 CT tool module

> Dimensions:  
316.5 x 390 x 35 mm



6.3  
1/4"  
6.3  
1/4"



Contents	kg	Code	No.
Ⓢ D 20 4 4,5 5 5,5 6 7 8 9 10 11 12 13 Ⓢ D 20 3/16 7/32 1/4 9/32 5/16 11/32 13/32 3/8 7/16 1/2 9/16" Ⓢ 20 L 4 4,5 5 5,5 6 7 8 9 10 11 12 13 2093 U-20 2093 U-3 T 2093 HR-94 2090-2 -4 -6 -12 2095 2097 2098 T 620 639 Ⓢ 680 4 6,5 Ⓢ 685 3 4 5 6 Ⓢ 685 X 5 6 8 Ⓢ 690 1 2 Ⓢ 690 PZD 1 2 3 Ⓢ 687 TX T8 T9 T10 T15 T20 T25 T27 T30 T40	1.6	2016478	2005 CT2-D 20

## 2005 CT3-32 SOCKET SET 3/4"

in 3/4 CT tool module

> Dimensions: 472.5 x 390 x 50 mm

**Suitable for:**

- > all drawers of models B 1500, 1502, 1505
- > only drawers with height 137 and 207 mm  
of models 1504, 1504 XL, 1506, 2004, 2005, workster



20  
3/4"

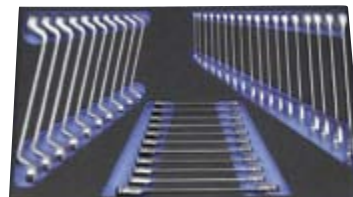


Contents	kg	Code	No.
Ⓢ 32 22 24 27 30 32 36 38 41 46 50 3290-8 -16 3293 U-2 3287	9.0	2752727	2005 CT3-32

## 2005 CT4-2-7 COMBINATION SPANNER SET

in 4/4 CT tool module

> Dimensions: 633 x 390 x 35 mm



Schüsselknarre®  
R-Serie

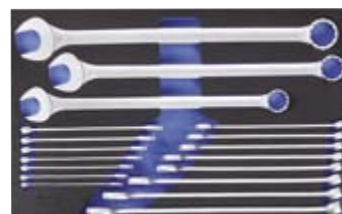


Contents	kg	Code	No.
Ⓢ 2 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 Ⓢ 7 6 7 8 9 10 11 12 13 14 15 16 17 18 19 21 22 24 27 Ⓢ 7 R 10 11 12 13 14 15 16 17 18 19 22	5.8	2016265	2005 CT4-2-7

## 2005 CT4-7 XL COMBINATION SPANNER SET

in 4/4 CT tool module

> Dimensions: 633 x 390 x 35 mm

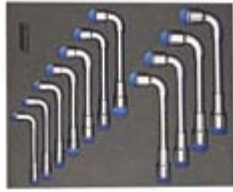


Contents	kg	Code	No.
Ⓢ 7 XL 10 11 12 13 14 15 16 17 18 19 21 22 24 27 30 32 36 41	8.2	2704226	2005 CT4-7 XL

## 2005 CT2-25PK DOUBLE ENDED SOCKET WRENCH SET

in 2/4 CT tool module

> Dimensions:  
316.5 x 390 x 35 mm



Contents	kg	Code	No.
○ 25 PK 8 10 11 12 13 14 15 16 17 18 19	2.548	2841851	2005 CT2-25PK

## 2005 CT2-2160 SCREWDRIVER SET

in 2/4 CT tool module

> Dimensions:  
316.5 x 390 x 35 mm



Contents	kg	Code	No.
⊕ 2160 PH 1 2 3	1.2	2016311	2005 CT2-2160
⊕ 2160 PZ 1 2 3			
⊖ 2150 3,5 5,5 8			
⊖ 2153 4			
⊕ 2161 PH 1			
⊕ 2161 PZ 1			
⊖ 173 4 8			
⊕ 174 1			

## 2005 CT4-8000 TOOL SET

in 4/4 CT tool module

> Dimensions:  
633 x 390 x 35 mm



Contents	kg	Code	No.
600 H-300 -500	4.0	2016303	2005 CT4-8000
248 ST-40			
142 10 JC			
8132-160 JC			
8316-160 JC			
8250-180 JC			
8000 A 1 A 2 A 21			
8000 J 1 J 2 J 21			

## E-2005 CT LENGTHWISE DIVIDER

without slots

> To fix the modules 2005 CT2

H	kg	Code	No.
40	0.248	2104601	E-2005 CT H-40

## 2005 CT2-119 TOOL SET

in 2/4 CT tool module

> Dimensions:  
316.5 x 390 x 35 mm



Contents	kg	Code	No.
95-200	2.4	2016338	2005 CT2-119
132-150			
99 12-3 12-5 12-6 12-8			
133-150 133 D-150			
100-12			
702 20 M			
119-			
706 711 4612			
3 -4 -5 -6 -8 -84 -86 -175			

## 2005 CT4-2160-119 TOOL SET

in 4/4 CT tool module

> Dimensions:  
633 x 390 x 35 mm

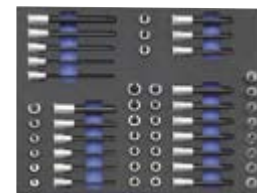


Contents	kg	Code	No.
⊕ 2160 PH 1 2 3	3.6	2016435	2005 CT4-2160-119
⊕ 2160 PZ 1 2 3			
⊖ 2150 3,5 5,5 8			
⊖ 2153 4			
⊕ 2161 PH 1			
⊕ 2161 PZ 1			
⊖ 173 4 8			
⊕ 174 1			
95-200			
99 12-3 12-5 12-6 12-8			
100-12			
119-3 -4 -5 -6 -8 -84 -86 -175			
132-150 133-150 133 D-150			
702 20 M			
706 711 4612			

## 2005 CT2-TX 30 SOCKET SET 3/8"

in 2/4 CT tool module

> Dimensions:  
316.5 x 390 x 35 mm



Contents	kg	Code	No.
● IN 30 4 5 6 7 8 10	3.0	2016508	2005 CT2-TX 30
● IN 30 L 4-95 5-95 6-95 7-95 8-95 10-95			
● IN 30 LK 4 5 6 8 10			
● ITX 30 T20 T25 T27 T30 T40 T45 T50			
● ITX 30 L T20 T25 T27 T30 T40 T45 T50			
● ITX 30 B T20 T25 T27 T30 T40 T45 T50			
● TX 30 E5 E6 E7 E8 E10 E11 E12 E14			
● INX 30 5 6 8			
● INX 30 L 6 8 10			



## 2005 CT2-D 19L SOCKET SET 1/2"

in 2/4 CT tool module

> Dimensions:  
316.5 x 390 x 35 mm

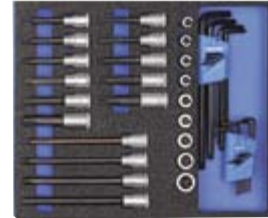


12.5  
1/2"

## 2005 CT2-INR SCREWDRIVER BIT SOCKET SET 1/2"

in 2/4 CT tool module

> Dimensions:  
316.5 x 390 x 35 mm



12.5  
1/2"

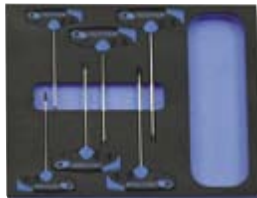
Contents	kg	Code	No.
<ul style="list-style-type: none"> <li>● D 19 L 10 12 13 14 15</li> <li>16 17 18 19 21 22 24</li> <li>27 30 32 34</li> <li>● IN 19 10 12 14 17 19</li> <li>● IN 19 L 12-140 14-140</li> <li>● IN 19 LK 10-140 12-140</li> <li>● INX 19 12 14</li> <li>● INX 19 L 12-100 14-100</li> <li>● ITX 19 T55 T60</li> <li>● ITX 19 L T55-100 T60-100</li> <li>● ITX 19 B T50 T55 T60</li> <li>● TX 19 E16 E18 E20 E24</li> </ul>	2.0	2016516	2005 CT2-D 19L

Contents	kg	Code	No.
<ul style="list-style-type: none"> <li>● ITX 19 B T20 T25 T27 T30 T40 T45 T50 T55 T60</li> <li>● INX 19 L 6-100 8-100 10-100 12-100 14-100</li> <li>● INR 19 L M5-100 M6-100 M6-188 M8-100 M8-188 M10-100 M10-188 M12-100 M12-188 M14-100</li> <li>● H 42 KEL-88 (2 2,5 3 4 5 6 8 10)</li> <li>● H 43 TX-09 (T7 T8 T9 T10 T15 T20 T25 T30 T40)</li> </ul>	3.6	2016281	2005 CT2-INR

## 2005 CT2-2142 TX SCREWDRIVER SET

in 2/4 CT tool module

> Dimensions:  
316.5 x 390 x 35 mm

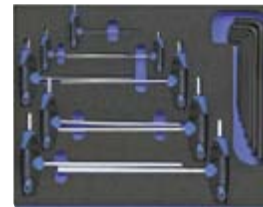


Contents	kg	Code	No.
<ul style="list-style-type: none"> <li>● 2142 TX T15 T20 T25 T27 T30 T40</li> </ul>	0.4	2016559	2005 CT2-2142 TX

## 2005 CT2-DT 2142 HEXAGON ALLEN KEY SET

in 2/4 CT tool module

> Dimensions:  
316.5 x 390 x 35 mm

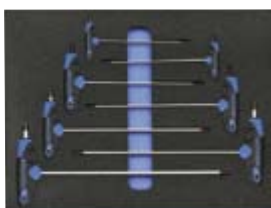


Contents	kg	Code	No.
<ul style="list-style-type: none"> <li>DT 2142 2 2,5 3 4 5 6 7 8 10</li> <li>H 42 KEL-88 (2 2,5 3 4 5 6 8 10)</li> </ul>	0.8	2016540	2005 CT2-DT 2142

## 2005 CT2-2143 KTX HEXAGON ALLEN KEY SET

in 2/4 CT tool module

> Dimensions:  
316.5 x 390 x 35 mm



Contents	kg	Code	No.
<ul style="list-style-type: none"> <li>● DT 2143 KTX T10 T15 T20 T25 T27 T30 T40</li> </ul>	0.6	2016567	2005 CT2-2143 KTX

## 2005 CT2-2133 T NUT DRIVER SET

in 2/4 CT tool module

> Dimensions:  
316.5 x 390 x 35 mm



Contents	kg	Code	No.
<ul style="list-style-type: none"> <li>○ 2133 T7 8 9 10 11 12 13</li> </ul>	1.2	2016532	2005 CT2-2133 T



# SPANNERS

RATCHET SPANNERS  
>123



COMBINATION SPANNERS  
>125



DOUBLE ENDED RING SPANNERS  
>129



OPEN ENDED SPANNERS  
>134



DEEP RING SPANNERS  
>141



SLOGGING SPANNERS  
>142



CROWFOOT SPANNERS  
>144



SWIVEL HEAD WRENCHES  
>145



SOCKET WRENCHES  
>146



MULTI FITTING KEYS  
>150



HOOK SPANNERS  
>150



ACCESSORIES  
>151



# SPANNERS OVERVIEW

## Durable and for high loadings

- › For heavy continuous use and safety in everyday work
- › High torque - GEDORE quality spanners do not fracture or splinter when overloaded, but deform under incorrect use, therefore posing a lower risk of injury to the user
- › Comfortable to hold due to ergonomic profiles without sharp edges
- › Secure grip even with oily hands
- › Non-glare look thanks to matt chrome-plating



## A well-functioning extended range

- › Extremely large selection in standardised and non-standardised, metric (mm), imperial (AF) and Whitworth (W) sizes
- › Top-grade industrial quality for the hardest of continuous use
- › Available individually or in practical sets or modules
- › Customised manufacturing, designs and types on request

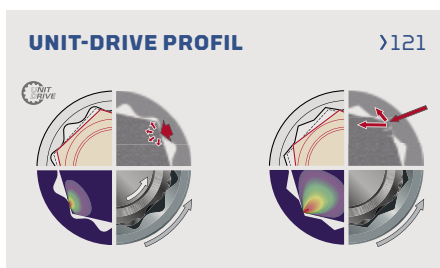
## Everything safely under control

- › Use of the very best raw materials, state-of-the-art machinery and environmentally-friendly production processes
- › Tools without chrome VI have been a given thing for several years
- › Our tool experts guarantee precision-like processing and permanent development
- › Unique manufacturing processes and special tool treatment for optimum results
- › Stringent quality checks after each production step ensure a constantly high level
- › Professional service through to development of special customised tools



## Precision, correct measurements and perfect fit

- › The most important requirements a safe working environment
- › Complete transmission of available torque
- › Long life of nut and bolt
- › Profiles easy on the bolt heads (UD, jaw, hexagon)
- › Minimum production tolerances ensure that spanners fit perfectly on bolts















































# SPANNER MATRIX

## Why matt chrome-plated?

- › Non-glare look
- › Non-slip surface for a firm grip even when hands are dirty
- › Double protection against corrosion. A nickel layer is applied before chrome-plating. Nickel and chrome: these two layers combine to form optimum protection against corrosion.
- › Chrome chips are practically unheard of on matt chrome-plated tools
- › The matt chrome-plated GEDORE finish retains its elegant look for decades

## Type / Series Special

				 mm	 "AF	 Whitw.
<b>Combination spanner set</b>				<b>3 ▶ 80 mm</b>	<b>1/16" AF ▶ 2.7/16" AF</b>	<b>1/8 W ▶ 3/4 W</b>
<b>No. 1 B</b>		matt chrome-plated		5 - 80 mm	1/4" AF - 2.7/16" AF	1/8 W - 3/4 W
<b>No. 7</b>		matt chrome-plated		3 - 36 mm	3/16" AF - 1" AF	-
<b>No. 7 XL</b>		matt chrome-plated		7 - 46 mm	-	-
<b>No. 7 R</b>	 	matt chrome-plated		8 - 36 mm	-	-
<b>No. 7 UR</b>	 	matt chrome-plated		8 - 24 mm	-	-
<b>Open ended spanner</b>				<b>4 ▶ 135 mm</b>	<b>1/4" AF ▶ 1.1/2" AF</b>	
<b>No. 6</b>		matt chrome-plated		4 x 4,5 - 55 x 60 mm	1/4 x 5/16" AF - 1.3/8" x 1.1/2" AF	-
<b>No. 8</b>		matt chrome-plated		4 - 14 mm	-	-
<b>No. 60 CP</b>		matt chrome-plated		0 - 36 mm	-	-
<b>No. 60 P</b>				0 - 36 mm	-	-
<b>No. 62 P</b>				0 - 63 mm	-	-
<b>No. 60 S</b>				0 - 36 mm	-	-
<b>No. 894</b>		manganese-phosphated		6 - 135 mm	1/4" AF - 1.1/8" AF	-
<b>No. 895</b>		manganese-phosphated		6 x 7 - 75 x 80 mm	-	-
<b>Ring spanner</b>				<b>5,5 ▶ 90 mm</b>	<b>1/4" AF ▶ 1" AF</b>	
<b>No. 2</b>		matt chrome-plated		5,5 x 7 - 55 x 60 mm	-	-
<b>No. 2 B</b>		matt chrome-plated		6 x 7 - 17 x 19 mm	-	-
<b>No. TX 4</b>		matt chrome-plated		E6 x E8 - E20 x E24	-	-
<b>No. 4</b>		matt chrome-plated		6 x 7 - 46 x 50 mm	-	-
<b>No. 4 R</b>	 	matt chrome-plated		8 x 9 - 18 x 19 mm	1/4 x 5/16" AF - 1/2 x 9/16" AF	-
<b>No. 400</b>		matt chrome-plated		8 x 10 - 46 x 50 mm	5/16 x 3/8" AF - 7/8 x 1" AF	-
<b>No. 304</b>		matt chrome-plated offset		11 x 13 - 19 x 22 mm	7/16 x 1/2" AF - 3/4 x 7/8" AF	-
<b>Slogging spanner</b>				<b>22 ▶ 135 mm</b>	<b>1" AF ▶ 3" AF</b>	
<b>No. 133</b>		shotblast finish		27 - 130 mm	-	-
<b>No. 306</b>		shotblast finish		22 - 135 mm	1" AF - 3" AF	-
<b>No. 306 G</b>		shotblast finish		27 - 95 mm	-	-
<b>Deep ring spanner</b>				<b>24 ▶ 95 mm</b>		
<b>No. 308</b>		shotblast finish		32 - 65 mm	-	-
<b>No. 2 A</b>		matt chrome-plated		24 - 95 mm	-	-



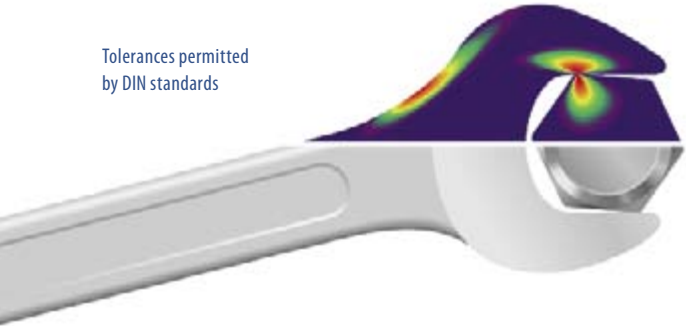
# THE KEY TO SUCCESS

Hi-tech for the perfect size

Tolerances achieved by GEDORE



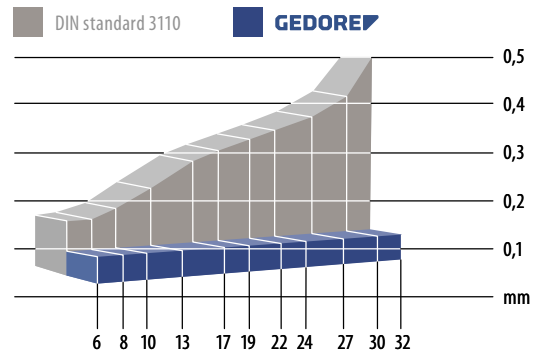
Tolerances permitted by DIN standards



## Your Advantage - Your PLUS in safety

- > Precision dimensions ensure secure nut and bolt grip
- > Long life of nut and bolt
- > Complete transmission of available torque
- > Top quality for better safety

Open-ended spanners have been made since the dawn of technology. But the continued use of traditional tools does not mean that they are still manufactured by conventional production processes. Tried and tested production stages are subject to continuous development by our workforce. Where modern technology can improve the quality, it is used. GEDORE grinds the spanner jaws to the exact rated size, using a high-tech grinding machine. Perfect fit is the most important requirement for non-damaging and safe work.



## THE PRODUCTION OF A SPANNER

From the tool blank to the final product. Quality comes with existence - Step by Step.



### 1. High-Quality Steel 31CrV3

Highly-efficient eccentric presses cut the blank for an open-ended spanner from high-quality flat steel.



### 2. Hot Forging Process

In the pusher furnace, the blank is heated to the exact pre-selected temperature and enters the forge while still red hot. The steel is given its form under the multiton blows of a drop hammer.



### 3. Thermally Hardened

Using a special thermal treatment, achieves maximum hardness - and a guarantee of long service life.



### 4. Precisely Ground

The jaws of the spanners are given their exact dimensions only after the hardening process. For this purpose, a high-tech grinding robot has been developed especially for this operation.



### 5. Carefully Smoothed

Any corners and edges still remaining are smoothed off by vibratory grinding, until the heads and shaft are absolutely free of burrs. The heads are additionally ground.



### 6. Extensively Treated

The extensive electroplating gives the spanners an effective surface protection and a perfect appearance. During this process, an efficient recycling plant ensures that the environment will not be affected.

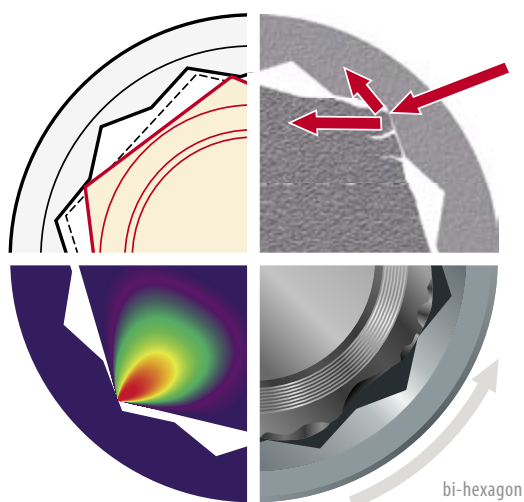


# GEDORE UNIT DRIVE PROFILE

A perfect fit to protect the bolt



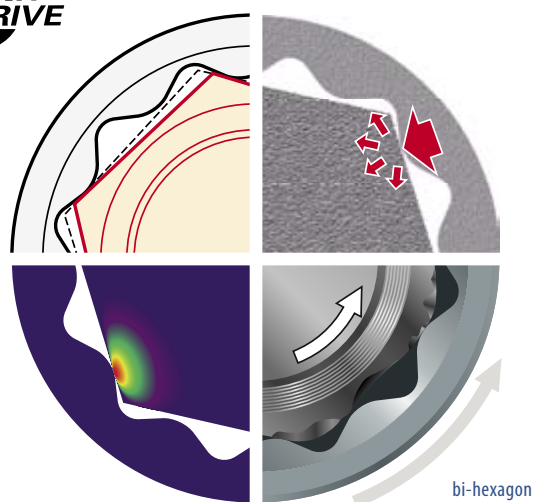
Traditional profile



- 1** The reduced contact surface lessens the force closure. Certain torque transfer is no longer possible and can become a risk.
- 2** The influence exerted of the sharp edges raises the notching effect on the bolt. The profile is ruined.
- 3** Since there is no longer any torque transfer, the rounded bolt profiles cannot be unscrewed - the tool keeps on slipping.
- 4** Pronounced force on the tip of the bolt profile. Concentrated pressure deforms the bolt.



GEDORE UNIT DRIVE Profile



- 1** A large contact surface provides a secure force closure even for those bolts whose sizes lie outside of the tolerances.
- 2** Uniform distribution of the force on the bolt flanks. The resulting reduced notching effect stops the bolt from turning round and round.
- 3** Gentle torque transfer enables even worn bolts to be unscrewed with every certainty - no slipping of the tool at all.
- 4** Thanks to the optimally distributed force up to 20 % higher torques can be transferred.

The GEDORE UNIT DRIVE profile stops bolts from "turning round and round" by using of a wave form without any tipped or sharp edges. Enlarged, round contact surfaces of the GEDORE tools ensure that torque is reliably transferred - acting uniformly, as it does, on the bolt. The resulting minimised notching effect prevents any damage to the bolt profile. This represents added safety since - even with damaged bolts - there is no slipping or turning.



# THE REVOLUTION

## A PERFECT COLLECTION

All the benefits of the GEDORE U-20 technology, classic No. 6 and the slim, tried-and-tested No. 7 have been combined into these ratchet wrenches 7 R + 7 UR.

**+** The non-glare look with grip (No. 6 + 7)

**An extremely assured grip thanks to the surface profile - matt chrome-plated**

The spanner surface is designed for both practical application and eye-appeal. The non-glare look comes from matt chrome-plating - the GEDORE surface profile is both kind-on-hands and very useful - a firm grip even with oily hands.

**+** The ratchet (U-20)

**Extra flat and sturdy - ideal for tough use and even at hard-to-reach areas**

Extremely compact and highly efficient - for quick deployments and also under cramped conditions. The tried-and-tested U-20 ratchet technology incorporated in an extremely flat ring head ensures efficient ratcheting work - For both loosening and fast tightening. The sturdiness of the ratchet wrench is very much down to the number of teeth intentionally selected. The GEDORE pawl geometry optimises the actually large working angle occasioned by a small number of teeth.

**+** The UD profile (No. 7)

**Extremely easy on the bolt heads with the force ideally transferred**

The wave form of the profile enlarges the spanner grip in every case - even with bolts whose dimensions are outside the tolerance range. Even distribution of pressure permits the maximum force to be applied.



**+** The jaw (No. 6)

**Highly dimensionally accurate / extremely precise - for non-damaging and safe working**

The exact nominal dimension of the jaw and thus its fitting precision ensure a secure bolt fitting and long service life of both bolt and ratchet wrench - the most important requirement, in fact, for non-damaging and safe working.

**+** The hollow shaft (No. 7)

**Highly stable - ideal for transferring maximum forces**

The kind-to-hands hollow profile makes for easy and tireless bolting. The GEDORE hollow profile has a geometry similar to that of a double T-girder. This makes it possible for substantial forces - particularly with large spanner sizes (34 and 36 mm) - to be transferred.

### Long life cycle

**... precise and reliable, environment and maintenance-friendly**

The fact that the ratchet spanner can be serviced underpins its sustainability. Even after any instance of incorrect use (e.g. given considerable soiling,

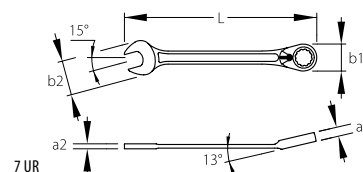
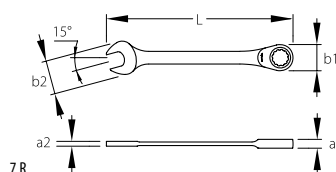
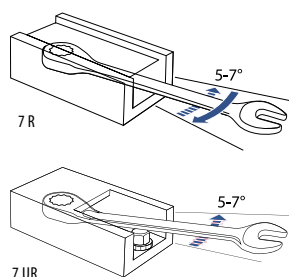
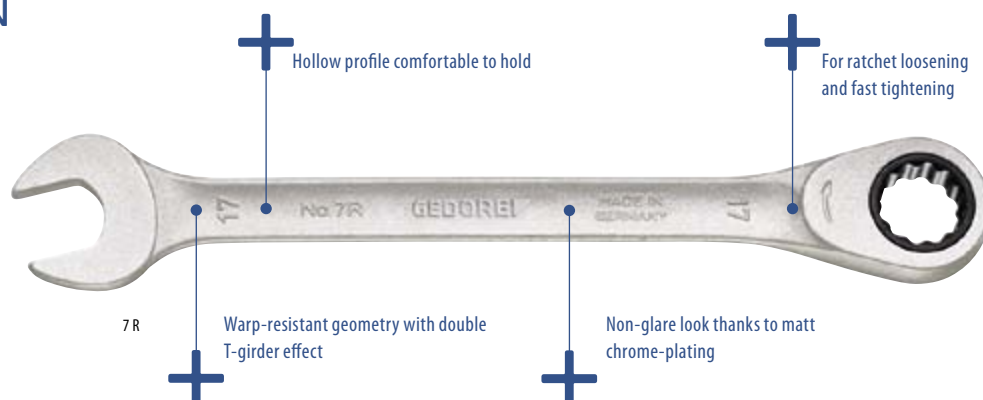
overstressing or moisture...) the ratchet wrench can be quickly made operable. Unscrew, slight re-greasing, screw down - and then continue to reliably undo the bolts.



## Combination Ratchet Spanners

### THE REVOLUTION

- > With same size each end
- > UD profile
- > High torque transfer
- > GEDORE vanadium steel 31CrV3
- > Non-glare look thanks to matt chrome-plating, locking insert and pawl manganese-phosphated
- > Hot forged
- > Jaw: ground precisely to exact nominal size for optimum contact areas
- > In combination with adaptor no. 7 RA or 7 RB (please order separately) the spanner no. 7 R and 7 UR can be used as a (bit) ratchet



## 7 R COMBINATION RATCHET SPANNER

Flat pattern

Ø mm	∠°	L	a <sub>1</sub>	a <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>	⚖	Code	No.
8	7	140	7.0	3.8	17.5	19.8	0.032	2297051	7 R 8
9	7	150	7.3	3.9	19.3	21.5	0.042	2297078	7 R 9
10	7	160	7.7	4.1	21.0	23.0	0.054	2297086	7 R 10
11	7	164	8.1	4.3	22.5	26.0	0.063	2297094	7 R 11
12	7	170	8.6	4.6	23.6	27.5	0.069	2297108	7 R 12
13	7	180	9.0	4.7	25.7	30.0	0.088	2297116	7 R 13
14	7	190	9.4	4.9	28.2	31.8	0.101	2297124	7 R 14
15	7	200	9.8	5.2	29.5	34.0	0.125	2297132	7 R 15
16	6	212	10.2	5.7	31.7	35.0	0.137	2297140	7 R 16
17	6	225	10.6	5.9	33.6	38.0	0.160	2297159	7 R 17

Ø mm	∠°	L	a <sub>1</sub>	a <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>	⚖	Code	No.
18	6	237	11.0	6.1	34.6	40.0	0.197	2297167	7 R 18
19	6	250	11.7	6.4	36.3	42.0	0.202	2297175	7 R 19
21	6	274	12.5	6.9	40.0	45.5	0.262	2219433	7 R 21
22	6	292	13.3	7.1	42.5	48.0	0.319	2297191	7 R 22
24	6	325	14.8	7.9	48.0	52.5	0.520	2297205	7 R 24
27	6	359	16.0	8.3	53.5	59.5	0.590	2297213	7 R 27
30	5	399	17.4	8.8	59.0	63.0	0.780	2297221	7 R 30
32	5	424	17.9	9.3	63.0	67.5	0.920	2297248	7 R 32
34	5	449	18.4	9.7	65.5	72.0	1.010	2219549	7 R 34
36	5	480	18.9	10.2	70.0	75.0	1.208	2219557	7 R 36

## 7 UR COMBINATION RATCHET SPANNER

Ring 13° offset from shaft, reversible

Ø mm	∠°	L	a <sub>1</sub>	a <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>	⚖	Code	No.
8	7	140	7.0	3.8	17.5	19.8	0.037	2297256	7 UR 8
9	7	150	7.3	3.9	19.3	21.5	0.043	2297264	7 UR 9
10	7	160	7.7	4.1	21.0	23.0	0.053	2297272	7 UR 10
11	7	164	8.1	4.3	22.5	26.0	0.062	2297280	7 UR 11
12	7	170	8.6	4.6	23.6	27.5	0.069	2297299	7 UR 12
13	7	180	9.0	4.7	25.7	30.0	0.081	2297302	7 UR 13
14	7	190	9.4	4.9	28.2	31.8	0.098	2297310	7 UR 14
15	7	200	9.8	5.2	29.5	34.0	0.120	2297329	7 UR 15

Ø mm	∠°	L	a <sub>1</sub>	a <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>	⚖	Code	No.
16	6	212	10.2	5.7	31.7	35.0	0.153	2297337	7 UR 16
17	6	225	10.6	5.9	33.6	38.0	0.166	2297345	7 UR 17
18	6	237	11.0	6.1	34.6	40.0	0.178	2297353	7 UR 18
19	6	250	11.7	6.4	36.3	42.0	0.218	2297361	7 UR 19
21	6	274	12.5	6.9	40.0	45.5	0.264	2244500	7 UR 21
22	6	292	13.3	7.1	42.5	48.0	0.319	2297388	7 UR 22
24	6	325	14.8	7.9	48.0	52.5	0.449	2297396	7 UR 24

## 7 R-005 COMBINATION RATCHET SPANNER SET



5 pieces

- > Most used sizes combined in a set
- > Flat pattern
- > UD profile
- > High torque transfer
- > In plastic case
- > Dimensions: 275 x 150 x 42 mm



Contents		Code	No.
mm 7 R 8 10 13 17 19	0.932	2297434	7 R-005

## 7 R-012 COMBINATION RATCHET SPANNER SET



12 pieces

- > Most used sizes combined in a set
- > Flat pattern
- > UD profile
- > High torque transfer
- > In robust sheet-metal case
- > Dimensions: 320 x 210 x 55 mm



Contents		Code	No.
mm 7 R 8 9 10 11 12 13 14 15 16 17 18 19	2.840	2297442	7 R-012

## 7 UR-005 COMBINATION RATCHET SPANNER SET, REVERSIBLE



5 pieces

- > Most used sizes
- > Ring 13° offset from shaft, reversible
- > UD profile
- > High torque transfer
- > In plastic case
- > Dimensions: 275 x 150 x 42 mm



Contents		Code	No.
mm 7 UR 8 10 13 17 19	0.930	2327651	7 UR-005

## 7 UR-012 COMBINATION RATCHET SPANNER SET, REVERSIBLE



12 pieces

- > Most used sizes
- > Ring 13° offset from shaft, reversible
- > UD profile
- > High torque transfer
- > In robust sheet-metal case
- > Dimensions: 320 x 210 x 55 mm



Contents		Code	No.
mm 7 UR 8 9 10 11 12 13 14 15 16 17 18 19	2.840	2297418	7 UR-012

## 7 RA ADAPTOR

for 7 R/7 UR

- > The adapter transforms the ring ratchet spanner into a ratchctet
- > Wear-resistant and manganese phosphated push-button
- > Fast-turning ring for swift release or tightening
- > Secure adaptor fit in the ring ratchet thanks to circlip
- > Chrome-plated



mm	"	"	H		Code	No.
10	1/4	6.3	18.0	0.011	2320495	7 RA-6,3
13	3/8	10.0	24.0	0.030	2320487	7 RA-10
19	1/2	12.5	32.0	0.070	2320479	7 RA-12,5

## 7 RB BIT ADAPTOR

for 7 R/7 UR

- > The adaptor transforms the ring ratchet spanner into a bit ratchet
- > Secure adaptor fit in the ring ratchet thanks retaining ball
- > With magnetic screw retainer
- > Manganese-phosphated body

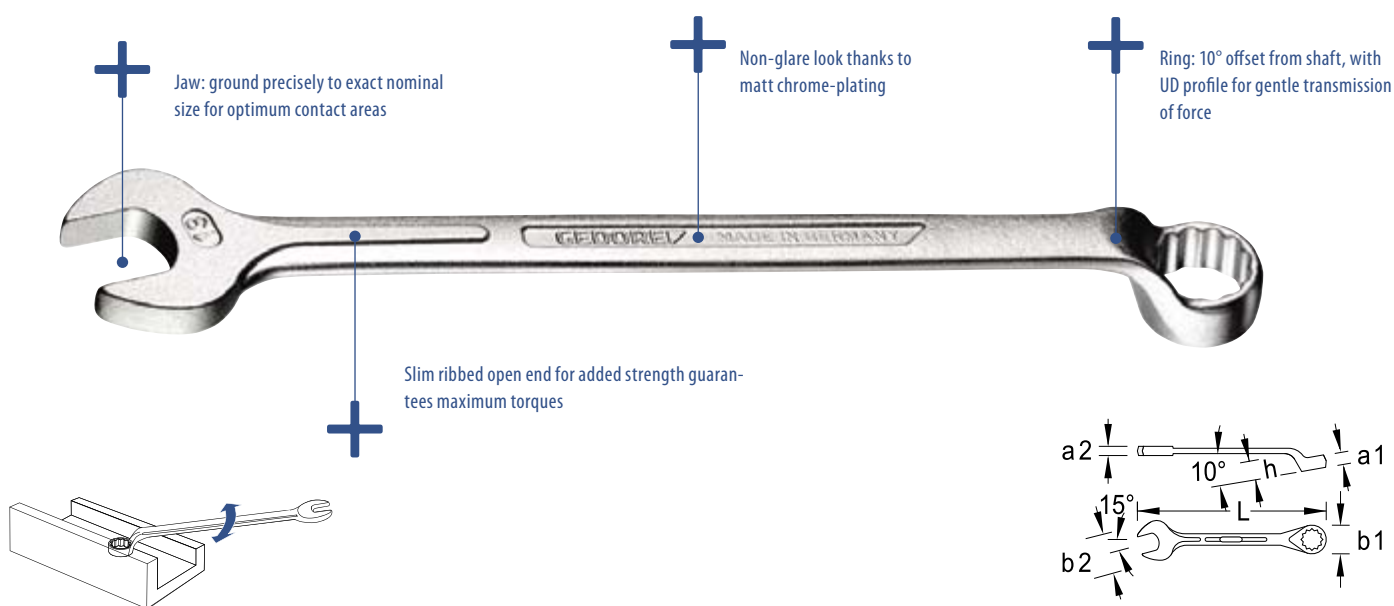


"	"	mm	H		Code	No.
1/4	6.3	10	20.5	0.011	2329239	7 RB-6,3
5/16	8.0	10	23.0	0.015	2327643	7 RB-8

## Combination Spanners

### NO. 1 B - "THE STRONG ALL-ROUNDER"

- > Acc. to DIN 3113 Form B, ISO 3318, ISO 7738
- > Sizes 5 and 5.5 mm with hexagon ring, up from size 6 mm with UD profile
- > GEDORE vanadium steel 31CrV3, chrome-plated
- > Carefully forged and professionally machined
- > Overloading indicated by deformation
- > The offset ring ensures a better grip on deep-seated or inset nuts or bolts
- > Top-grade industrial quality for the hardest of continuous use



## 1 B (MM) COMBINATION SPANNERS



\* not standardised

Ø mm	L	a <sub>1</sub>	a <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>	h		Code	No.
5.0	100	5.0	3.4	8.5	14.5	9.5	0.015	6000240	1 B 5
5.5	100	5.0	3.4	9.2	14.5	9.5	0.015	6000320	1 B 5,5
6.0	100	5.0	3.4	9.8	15.5	9.5	0.016	6000400	1 B 6
7.0	112	6.0	3.7	11.2	17.2	10.5	0.028	6000590	1 B 7
8.0	125	6.5	4.0	12.5	19.2	11.5	0.026	6000670	1 B 8
9.0	138	7.5	4.3	14.0	21.2	12.5	0.035	6000750	1 B 9
10.0	148	8.2	4.7	15.5	23.5	14.0	0.042	6000830	1 B 10
11.0	158	9.0	5.0	16.8	25.5	15.0	0.050	6000910	1 B 11
12.0	168	9.5	5.3	18.2	27.2	16.0	0.064	6001050	1 B 12
13.0	185	10.2	6.0	19.5	30.0	16.5	0.080	6001130	1 B 13
14.0	198	11.0	6.3	21.0	32.0	17.5	0.091	6001210	1 B 14
15.0	210	11.5	6.7	22.2	34.0	19.0	0.139	6001480	1 B 15
16.0	220	12.0	7.0	23.5	36.0	20.0	0.128	6001560	1 B 16
17.0	232	12.5	7.5	25.0	38.0	21.0	0.153	6001640	1 B 17
18.0	245	13.2	7.7	26.5	40.0	22.5	0.183	6001720	1 B 18
19.0	258	13.5	8.0	27.8	42.0	23.5	0.210	6001800	1 B 19
20.0	270	14.5	8.5	29.2	44.0	24.5	0.245	6001990	1 B 20
21.0	280	14.5	8.7	30.5	45.8	26.0	0.281	6002020	1 B 21
22.0	292	14.5	9.0	32.0	48.2	27.0	0.294	6002100	1 B 22
23.0	305	15.5	9.3	33.5	49.8	28.0	0.350	6002290	1 B 23
24.0	318	15.5	9.5	35.0	52.0	29.5	0.372	6002370	1 B 24
25.0	*	328	17.5	10.0	36.2	54.2	0.431	6002450	1 B 25
26.0	*	340	17.5	10.3	37.5	56.0	0.481	6002530	1 B 26
27.0	*	352	17.5	10.5	39.0	58.0	0.514	6002610	1 B 27
28.0	*	370	19.5	11.0	40.2	60.0	0.578	6002880	1 B 28
29.0	*	370	19.5	11.0	41.8	61.8	0.546	6002960	1 B 29
30.0	*	390	19.5	11.2	43.2	63.5	0.672	6003180	1 B 30
32.0	*	412	20.5	11.8	46.0	68.0	0.684	6003260	1 B 32
33.0	*	412	20.5	11.8	47.5	70.5	0.827	6003340	1 B 33
34.0	*	412	20.5	11.8	49.0	70.5	0.784	6004150	1 B 34
36.0	*	460	23.5	12.8	52.2	76.2	1.147	6003420	1 B 36
38.0	*	460	24.2	13.2	56.0	79.2	1.081	6003500	1 B 38
41.0	*	520	25.5	14.0	60.2	85.0	1.452	6003690	1 B 41
46.0	*	550	27.5	15.0	68.0	95.5	1.893	6003770	1 B 46
50.0	*	580	29.5	16.0	74.0	103.0	2.268	6003850	1 B 50
55.0	*	620	30.5	17.0	82.0	112.5	2.900	6003930	1 B 55
60.0	*	660	32.0	18.0	90.0	121.0	3.600	6004070	1 B 60
65.0	*	710	33.0	22.0	98.0	133.0	4.415	6004660	1 B 65
70.0	*	760	35.0	24.0	105.0	143.0	5.625	6004740	1 B 70
75.0	*	810	38.0	26.0	110.0	153.0	6.545	6004820	1 B 75
80.0	*	860	41.0	28.0	119.0	163.0	8.790	6004900	1 B 80

# 1 B (AF) COMBINATION SPANNERS

INCH



○"AF	L	a <sub>1</sub>	a <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>	h	⚖	Code	No.
1/4	100	5.0	3.4	10.2	16.2	9.5	0.016	6005120	1 B 1/4AF
5/16	125	6.5	4.0	12.5	19.2	11.5	0.027	6005200	1 B 5/16AF
3/8	148	8.2	4.7	14.8	22.2	14.0	0.045	6005390	1 B 3/8AF
7/16	158	9.0	5.0	17.0	25.8	15.0	0.053	6005470	1 B 7/16AF
1/2	185	10.2	6.0	19.2	29.2	16.5	0.085	6005550	1 B 1/2AF
9/16	198	11.0	6.3	21.5	32.0	17.5	0.099	6005630	1 B 9/16AF
5/8	220	12.0	7.0	23.5	36.0	20.0	0.136	6005710	1 B 5/8AF
11/16	245	13.2	7.7	25.8	40.0	22.5	0.192	6005980	1 B 11/16AF
3/4	258	13.5	8.0	27.8	42.0	23.5	0.209	6006010	1 B 3/4AF
13/16	280	14.5	8.7	30.2	45.8	26.0	0.269	6006280	1 B 13/16AF
7/8	292	14.5	9.0	32.5	48.2	27.0	0.308	6006360	1 B 7/8AF
15/16	318	15.5	9.5	34.8	52.0	29.5	0.403	6006440	1 B 15/16AF
1	340	17.5	10.3	36.8	55.2	32.0	0.473	6006520	1 B 1AF
1.1/16	352	17.5	10.5	39.0	58.0	33.0	0.559	6006600	1 B 1.1/16AF
1.1/8	370	19.5	11.0	41.0	61.8	34.5	0.587	6006790	1 B 1.1/8AF

○"AF	L	a <sub>1</sub>	a <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>	h	⚖	Code	No.
1.1/4	412	20.5	11.8	45.8	70.5	39.0	0.861	6006870	1 B 1.1/4AF
1.5/16	412	20.5	11.8	48.5	70.5	39.0	0.789	6006950	1 B 1.5/16AF
1.3/8	460	23.5	12.8	51.5	75.2	43.0	1.099	6007090	1 B 1.3/8AF
1.7/16	460	23.5	12.8	53.0	75.2	43.0	1.085	6007170	1 B 1.7/16AF
1.1/2	460	24.2	13.2	56.0	79.2	43.0	1.113	6007250	1 B 1.1/2AF
1.5/8	520	25.5	14.0	60.5	85.0	49.0	1.457	6007330	1 B 1.5/8AF
1.3/4	550	27.5	15.0	66.0	95.5	53.0	1.896	6007410	1 B 1.3/4AF
1.13/16	550	27.5	15.0	68.0	95.5	53.0	1.870	6007680	1 B 1.13/16AF
1.7/8	550	27.5	15.0	69.0	95.5	53.0	1.821	6007760	1 B 1.7/8AF
2	580	29.5	16.0	74.5	103.0	57.0	2.280	6007840	1 B 2AF
2.1/16	580	29.5	16.0	75.0	103.0	57.0	2.250	6007920	1 B 2.1/16AF
2.3/16	620	30.5	17.0	82.0	112.5	62.0	2.855	6008060	1 B 2.3/16AF
2.1/4	620	30.5	17.0	83.0	112.5	62.0	2.820	6008140	1 B 2.1/4AF
2.3/8	660	32.0	18.0	90.0	121.0	67.0	3.510	6008220	1 B 2.3/8AF
2.7/16	660	32.0	18.0	91.0	121.0	67.0	3.630	6008300	1 B 2.7/16AF

# 1 B (WW) COMBINATION SPANNERS

Whitworth



○Whitw.	L	a <sub>1</sub>	a <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>	h	⚖	Code	No.
1/8	138	7.5	4.3	13.5	21.2	12.5	0.035	6009540	1 B 1/8W
3/16	158	9.0	5.0	17.5	26.0	15.0	0.053	6009620	1 B 3/16W
1/4	185	10.2	6.0	20.0	30.0	16.5	0.082	6009700	1 B 1/4W
5/16	210	11.5	6.7	22.5	34.0	19.0	0.115	6009890	1 B 5/16W
3/8	245	13.2	7.7	26.5	40.0	22.5	0.190	6009970	1 B 3/8W

○Whitw.	L	a <sub>1</sub>	a <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>	h	⚖	Code	No.
7/16	280	14.5	8.7	30.2	45.8	26.0	0.274	6010040	1 B 7/16W
1/2	305	15.5	9.3	34.0	50.5	28.0	0.343	6010120	1 B 1/2W
9/16	340	17.5	10.3	37.0	56.0	32.0	0.477	6010200	1 B 9/16W
5/8	370	19.5	11.0	40.2	61.8	34.5	0.573	6010390	1 B 5/8W
11/16	390	19.5	11.2	43.8	65.2	36.0	0.713	6010470	1 B 11/16W
3/4	412	20.5	11.8	48.0	70.5	39.0	0.803	6010550	1 B 3/4W

# 1 B (MM) / 1 B (AF) COMBINATION SPANNER SETS



1B-080

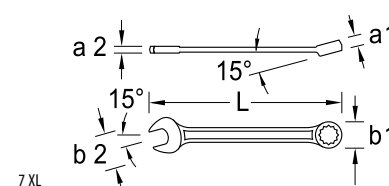
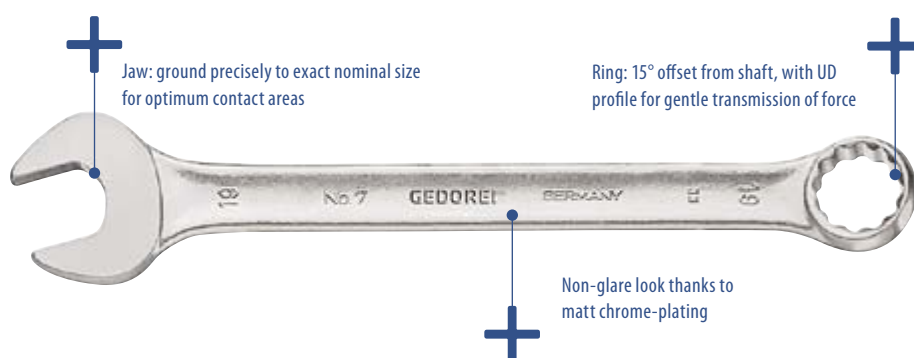
pieces	Contents	⚖	No.	Code
8	10 12 13 14 17 19 22 24	2.600	1B-08	6011870
8	8 9 10 11 13 14 17 19	1.000	1B-080	6011950
11	8 9 10 11 12 13 14 15 17 19 22	1.190	1B-011	6012250
11	7 8 10 11 12 13 14 16 17 18 19	1.050	1B-110	6013140
12	10 11 12 13 14 17 19 22 24 27 30 32	3.390	1B-012	6012170
12	6 7 8 9 10 11 12 13 14 15 17 19	0.925	1B-0112	6012840
15	6 7 8 9 10 11 12 13 17 19 22 24 27 30 32	3.385	1B-0115	6000160
17	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	2.300	1B-017	6012680
20	8 9 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 30 32	5.500	1B-020	6013060
26	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 32	7.500	1B-026	6012920

INCH

pieces	Contents	⚖	No.	Code
8	3/8 7/16 1/2 9/16 5/8 3/4 7/8 1"	1.410	1B-08 A	6013300
14	5/16 3/8 7/16 1/2 9/16 5/8 11/16 3/4 13/16 7/8 1 1.1/16 1.1/8 1.1/4"	3.488	1B-014 A	6013650

## NO. 7 - "SLIM LINE"

- > Acc. to DIN 3113 Form A, ISO 3318, ISO 7738
- > GEDORE vanadium steel 31CrV3, chrome-plated
- > **Carefully forged and professionally machined**
- > Slim jaw and jaw walls make this spanner lighter overall
- > Overloading indicated by deformation
- > Secure grip thanks to hollow shaft - very ergonomic and handy
- > Non-glare look thanks to matt chrome-plating
- > Designed for universal use
- > Top-grade industrial quality for the hardest of continuous use



## 7 (MM) COMBINATION SPANNERS

with same size each end

- > Sizes 3 to 5.5 with hexagon ring, up from size 6 with UD profile
- \* not standardised

Ø mm		L	a <sub>1</sub>	a <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>	⚖	Code	No.
3.0	*	78	2.8	2.8	6.5	9.2	0.006	6080680	7 3
3.2	*	78	2.8	2.8	6.5	9.2	0.006	6080760	7 3,2
3.5	*	78	2.8	2.8	6.5	9.2	0.006	6080840	7 3,5
4.0	*	85	3.2	3.2	7.7	11.8	0.010	6080920	7 4
4.5	*	85	3.2	3.2	7.7	11.8	0.009	6081060	7 4,5
5.0	*	92	3.6	3.6	9.7	13.2	0.011	6081140	7 5
5.5	*	92	3.6	3.6	9.7	13.2	0.011	6081220	7 5,5
6.0		100	5.0	3.4	10.0	16.2	0.014	6089550	7 6
7.0		110	5.5	3.6	11.5	17.5	0.017	6089630	7 7
8.0		120	6.0	3.8	12.7	19.8	0.024	6089710	7 8
9.0		130	6.5	4.0	14.0	21.5	0.028	6089980	7 9
10.0		140	7.0	4.2	15.5	23.0	0.033	6090050	7 10
11.0		150	7.5	4.5	17.0	26.0	0.042	6090130	7 11
12.0		160	8.0	4.8	18.5	27.5	0.050	6090210	7 12
13.0		170	8.5	5.0	19.5	30.0	0.058	6090480	7 13
14.0		180	9.0	5.2	21.0	31.8	0.069	6090560	7 14
15.0		190	9.5	5.5	22.5	34.0	0.080	6090640	7 15
16.0		200	10.0	5.8	23.0	35.0	0.092	6091610	7 16

Ø mm		L	a <sub>1</sub>	a <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>	⚖	Code	No.
17.0		210	10.5	6.0	25.0	38.0	0.111	6090720	7 17
18.0		220	11.0	6.2	26.0	40.0	0.121	6091880	7 18
19.0		230	11.5	6.5	28.0	42.0	0.140	6090800	7 19
20.0	*	240	12.0	6.8	29.0	44.2	0.170	6091960	7 20
21.0		252	12.5	7.0	30.0	45.5	0.182	6092180	7 21
22.0		262	13.0	7.2	32.0	48.0	0.200	6090990	7 22
23.0	*	270	13.5	7.6	33.0	49.5	0.223	6092260	7 23
24.0		282	14.0	8.0	35.0	52.5	0.264	6091020	7 24
25.0	*	290	14.5	8.2	36.0	54.5	0.295	6092340	7 25
26.0	*	302	15.0	8.2	37.0	56.5	0.309	6092420	7 26
27.0		310	15.5	8.5	39.0	59.5	0.344	6091100	7 27
28.0	*	320	16.0	8.8	40.0	60.0	0.375	6092500	7 28
29.0	*	330	16.5	8.8	41.5	61.5	0.394	6092690	7 29
30.0		340	17.0	9.0	43.0	63.0	0.428	6091290	7 30
32.0		370	18.0	9.5	46.0	67.5	0.535	6091370	7 32
34.0		420	19.0	10.0	49.0	72.0	0.624	1827987	7 34
36.0		460	20.0	10.5	52.0	75.0	0.726	6089470	7 36

## 7 (AF) COMBINATION SPANNERS

with same size each end, INCH

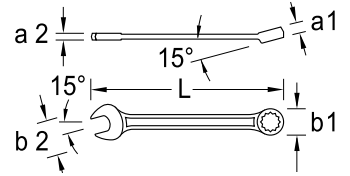
Ø" AF	L	a <sub>1</sub>	a <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>	⚖	Code	No.
3/16	85	3.2	3.2	7.7	11.8	0.010	1436767	7 3/16AF
7/32	92	3.6	3.6	9.7	13.2	0.011	1436775	7 7/32AF
1/4	100	5.0	3.4	10.0	16.2	0.013	6098700	7 1/4AF
5/16	120	6.0	3.8	12.7	19.8	0.024	6098890	7 5/16AF
11/32	130	6.5	4.0	14.0	21.5	0.026	6098970	7 11/32AF
3/8	140	7.0	4.2	15.5	23.0	0.038	6099190	7 3/8AF
7/16	150	7.5	4.5	17.0	26.0	0.041	6099270	7 7/16AF
1/2	170	8.5	5.0	19.5	30.0	0.056	6099430	7 1/2AF

Ø" AF	L	a <sub>1</sub>	a <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>	⚖	Code	No.
9/16	180	9.0	5.2	21.0	31.8	0.063	6099510	7 9/16AF
5/8	200	10.0	5.8	23.0	35.0	0.104	6099780	7 5/8AF
11/16	220	11.0	6.2	26.0	40.0	0.122	6099860	7 11/16AF
3/4	230	11.5	6.5	28.0	42.0	0.148	6099940	7 3/4AF
13/16	252	12.5	7.0	30.0	45.5	0.187	6100030	7 13/16AF
7/8	262	13.0	7.2	32.0	48.0	0.192	6100110	7 7/8AF
15/16	282	14.0	8.0	34.0	52.5	0.296	6100380	7 15/16AF
1	302	15.0	8.2	36.0	56.5	0.287	6100460	7 1AF

# 7 XL COMBINATION SPANNERS

with same size each end, extra long

> Extra-long shaft for deep applications and high-torque



Ø mm	L	a <sub>1</sub>	a <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>		Code	No.
7	160	6.5	4.0	12.5	18.5	0.031	1394916	7 XL 7
8	170	7.0	4.5	13.5	20.8	0.042	6080090	7 XL 8
9	180	7.5	4.5	14.5	22.5	0.054	6080170	7 XL 9
10	190	8.5	5.0	16.0	24.0	0.011	6097300	7 XL 10
11	200	9.0	5.5	17.5	27.0	0.076	6097490	7 XL 11
12	210	10.0	5.5	19.0	28.5	0.086	6100540	7 XL 12
13	225	10.5	6.0	20.0	31.0	0.102	6100620	7 XL 13
14	235	10.8	6.5	22.0	32.8	0.120	6100700	7 XL 14
15	250	11.2	7.0	23.0	35.0	0.147	6100890	7 XL 15
16	265	11.8	7.5	24.8	36.0	0.171	6080250	7 XL 16
17	280	12.2	8.5	26.0	39.0	0.196	6100970	7 XL 17
18	295	13.2	8.5	27.8	41.0	0.233	6080330	7 XL 18

Ø mm	L	a <sub>1</sub>	a <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>		Code	No.
19	310	14.2	9.5	29.0	43.0	0.276	6101000	7 XL 19
21	340	14.2	9.5	32.5	46.5	0.352	6080410	7 XL 21
22	350	16.2	11.0	33.5	49.0	0.392	6101190	7 XL 22
24	400	18.2	12.0	36.5	53.5	0.521	6101270	7 XL 24
27	450	20.2	13.0	40.5	60.5	0.711	6101350	7 XL 27
30	480	21.2	14.0	44.5	63.0	0.839	6101780	7 XL 30
32	500	22.2	14.0	47.5	69.0	0.956	6101430	7 XL 32
34	520	23.2	15.0	49.5	70.5	1.088	6101940	7 XL 34
36	550	24.2	15.0	53.0	76.0	1.248	6101510	7 XL 36
41	600	26.0	16.0	62.0	84.5	2.000	6102080	7 XL 41
46	640	28.0	17.0	70.0	96.0	2.278	6102160	7 XL 46

# 7 (MM) / 7 (AF) COMBINATION SPANNER SET



# 7 XL COMBINATION SPANNER SET



extra long

> Extra-long shaft for deep applications and high-torque



7-08



7 XL-080

pieces	No.	Contents		Code
8	7-08	10 12 13 14 17 19 22 24	0.973	6092770
8	7-080	8 9 10 11 13 14 17 19	0.536	6092850
11	7-011	8 9 10 11 12 13 14 15 17 19 22	0.868	6093070
11	7-0110	7 8 10 11 12 13 14 16 17 18 19	0.782	6096090
12	7-0112	6 7 8 9 10 11 12 13 14 15 17 19	0.686	6091530
12	7-012	10 11 12 13 14 17 19 22 24 27 30 32	2.700	6093150
17	7-017	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	1.465	6093580
20	7-020	8 9 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 30 32	3.360	6093660
26	7-026	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 32	4.665	6093740

## INCH

pieces	No.	Contents		Code
8	7-08 A	3/8 7/16 1/2 9/16 5/8 3/4 7/8 1"	1.047	6091450

pieces	No.	Contents		Code
8	7 XL-080	8 9 10 11 13 14 17 19	0.962	6104880
11	7 XL-0111	8 10 11 12 13 14 16 17 18 19 22	1.794	6104960
12	7 XL-012	10 11 12 13 14 17 19 22 24 27 30 32	4.410	6095950

1500 ES / 1500 CT

>98 / 105

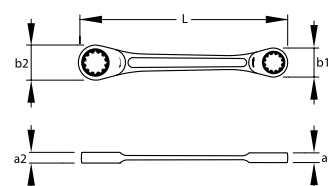




## Double Ended Ring Spanners

### NO. 4 R - THE "DOUBLE WITH RATCHET"

- > Flat pattern
- > Thin walled rings
- > UD profile
- > Working angle: 7° up to 14x15 mm, 6° from 16x17 mm to 18x19 mm
- > For ratchet loosening and fast tightening
- > GEDORE vanadium steel 31CrV3
- > Non-glare look thanks to matt chrome-plating, locking insert and pawl manganese-phosphated
- > Hot forged
- > Tried-and-tested GEDORE technology combined anew: stable hollow shaft of no. 7 and refined mechanism of the U-20 ratchets
- > In combination with adaptor no. 7 RA or 7 RB (please order separately) the spanner no. 4 R can be used as a (bit) ratchet



## 4 R (MM) / 4 R (AF) DOUBLE RING RATCHET SPANNER



Ø mm	∠°	L	a <sub>1</sub>	a <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>		Code	No.
8 x 9	7	134.0	7.0	7.3	17.5	19.3	0.040	2306719	4 R 8x9
8 x 10	7	144.0	7.0	7.7	17.5	21.0	0.060	2306727	4 R 8x10
10 x 11	7	153.5	7.7	8.1	21.0	22.5	0.070	2306743	4 R 10x11
10 x 13	7	165.5	7.7	9.0	21.0	25.7	0.080	2306751	4 R 10x13
12 x 13	7	174.5	8.6	9.0	23.6	25.7	0.090	2306786	4 R 12x13

Ø mm	∠°	L	a <sub>1</sub>	a <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>		Code	No.
14 x 15	7	197.0	9.4	9.8	28.2	29.5	0.140	2306794	4 R 14x15
16 x 17	6	222.0	10.2	10.6	31.7	33.6	0.200	2306808	4 R 16x17
17 x 19	6	235.0	10.6	11.7	33.6	36.3	0.220	2306816	4 R 17x19
18 x 19	6	248.0	11.0	11.7	34.6	36.3	0.230	2306832	4 R 18x19

### INCH

Ø AF	∠°	L	a <sub>1</sub>	a <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>		Code	No.
1/4 x 5/16	7	134.0	7.0	7.3	17.5	19.3	0.035	2825015	4 R 1/4x5/16AF
5/16 x 11/32	7	134.0	7.0	7.3	17.5	19.3	0.040	2825031	4 R 5/16x11/32AF

Ø AF	∠°	L	a <sub>1</sub>	a <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>		Code	No.
3/8 x 7/16	7	153.5	7.7	8.1	21.0	22.5	0.070	2825023	4 R 3/8x7/16AF
1/2 x 9/16	7	197.0	9.4	9.8	28.2	29.5	0.100	2825007	4 R 1/2x9/16AF

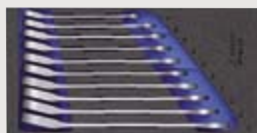
1500 CT 1 - 7R

&gt;106



1500 CT 1 - 7UR

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1500 CT 2 - 7

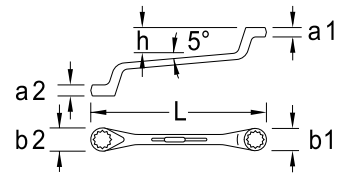
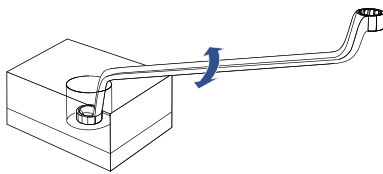
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# NO. 2 - "OFFSET"

- > Rings deep offset, strong but thin walls
- > Acc. to DIN 838, ISO 3318, ISO 1085, ISO 10104
- > GEDORE vanadium steel 31CrV3, chrome-plated
- \* not standardised
- > Carefully forged and professionally machined:
- > Ring: thin-walled, 5° deep offset from shaft, with UD profile for gentle transmission of force

- > High bending strength - does not fracture or splinter when overloaded, thus minimising the risk of injury
- > Overloading indicated by deformation
- > Non-glare look thanks to matt chrome-plating
- > Specialist for extremely deep or inset bolts
- > Top-grade industrial quality for the hardest of continuous use



## 2 DOUBLE ENDED RING SPANNERS



> \* not standardised

Ø mm	L	a <sub>1</sub>	a <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>	h		Code	No.
5,5 x 7	170	5.6	6.6	10.0	12.0	20.7	0.062	6010630	2.5,5x7
6 x 7	170	5.6	6.6	10.5	12.0	20.7	0.045	6015350	2.6x7
7 x 8	180	5.6	6.6	12.0	13.3	21.7	0.068	6015430	2.7x8
8 x 9	182	6.6	7.6	13.3	14.4	21.7	0.065	6015510	2.8x9
8 x 10	182	6.6	8.5	13.3	15.9	21.7	0.072	6015780	2.8x10
9 x 11	195	7.6	9.5	14.4	17.5	23.6	0.086	6015860	2.9x11
10 x 11	195	8.5	9.5	15.9	17.5	23.6	0.089	6015940	2.10x11
10 x 12	195	8.5	9.6	15.9	19.0	23.6	0.089	6016080	2.10x12
10 x 13	212	8.5	10.3	15.9	20.1	25.1	0.122	6016160	2.10x13
11 x 13	212	9.5	10.3	17.5	20.1	25.1	0.129	6016320	2.11x13
12 x 13	212	9.6	10.3	19.0	20.1	25.1	0.125	6016590	2.12x13
12 x 14	212	9.6	10.6	19.0	21.6	25.1	0.134	6016670	2.12x14
13 x 14	225	10.3	10.6	20.1	21.6	26.1	0.156	6016750	2.13x14
13 x 15	225	10.3	11.3	20.1	23.1	26.1	0.160	6016830	2.13x15
13 x 17	245	10.3	12.3	20.1	25.8	27.1	0.212	6017050	2.13x17
14 x 15	225	10.6	11.3	21.6	23.1	26.1	0.154	6016910	2.14x15
14 x 17	245	10.6	12.3	21.6	25.8	27.1	0.227	6017130	2.14x17
16 x 17	245	11.6	12.3	24.2	25.8	27.1	0.205	6017210	2.16x17
16 x 18	265	11.6	12.6	24.2	27.0	28.6	0.250	6025660	2.16x18
17 x 19	265	12.3	13.0	25.8	28.8	28.6	0.250	6017480	2.17x19
18 x 19	265	12.6	13.0	27.0	28.8	28.6	0.258	6017560	2.18x19
18 x 21	285	12.6	13.4	27.0	31.1	31.0	0.327	6025740	2.18x21
19 x 22	287	13.0	14.3	28.8	33.0	31.0	0.352	6017720	2.19x22
19 x 24	305	13.0	14.4	28.8	35.7	33.0	0.419	6017990	2.19x24
20 x 22	287	13.3	14.3	30.1	33.0	31.0	0.345	6017800	2.20x22
21 x 23	305	13.4	14.3	30.9	34.0	33.0	0.411	6018020	2.21x23
21 x 24	307	13.4	14.4	30.9	35.7	33.0	0.386	6025820	2.21x24

Ø mm	L	a <sub>1</sub>	a <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>	h		Code	No.
22 x 24	307	14.3	14.4	32.8	35.7	33.0	0.412	6018100	2.22x24
24 x 26	325	14.4	15.3	35.7	38.0	34.5	0.503	6018370	2.24x26
24 x 27	325	14.4	15.4	35.7	40.1	34.5	0.506	6018450	2.24x27
24 x 30	345	14.4	16.4	35.7	44.1	35.5	0.579	6018530	2.24x30
25 x 28	345	14.4	15.4	37.0	41.1	35.5	0.565	6018610	2.25x28
27 x 29	345	14.8	16.4	40.1	42.5	35.5	0.678	6018880	2.27x29
27 x 30	345	15.4	16.4	40.1	44.1	35.5	0.628	6018960	2.27x30
27 x 32	370	15.4	17.4	40.1	47.1	37.4	0.701	6019180	2.27x32
30 x 32	370	16.4	17.4	44.1	47.1	37.4	0.731	6019260	2.30x32
30 x 34	375	16.4	18.7	44.1	50.0	37.4	0.763	6025900	2.30x34
30 x 36	400	16.4	19.4	43.2	52.6	38.4	0.872	6019340	2.30x36
32 x 36	400	17.4	19.4	47.1	53.0	38.4	0.878	6019420	2.32x36
34 x 36	420	18.7	19.4	50.0	53.0	38.4	0.929	6026040	2.34x36
36 x 41	440	19.4	20.4	53.0	60.5	40.4	1.166	6019500	2.36x41
38 x 42	440	19.7	20.4	56.4	62.5	40.4	1.207	6019690	2.38x42
41 x 46	485	20.4	22.2	62.0	68.9	42.8	1.535	6019770	2.41x46
46 x 50	535	22.2	23.6	68.9	75.5	47.8	2.035	6019850	2.46x50
55 x 60	610	24.6	25.6	84.9	91.8	54.2	3.125	6019930	2.55x60

## 2

## DOUBLE ENDED RING SPANNER SET



- > Sets of the most used sizes
- > Rings deep offset, strong but thin walls, UD profile
- > Acc. to DIN 838, ISO 3318, ISO 1085, ISO 10104
- > GEDORE vanadium steel 31CrV3, chrome-plated



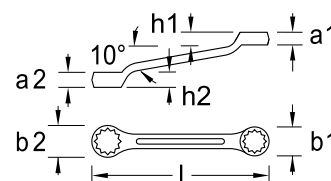
pieces	Contents		Code	No.
8	6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22	1.297	6030580	2-8
10	6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27	2.225	6030740	2-10
10	6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 24x27 30x32	2.555	6031120	2-100
12	6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x26 25x28 27x32	4.060	6030900	2-12
12	6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 25x28 30x32	4.000	6031040	2-120
12	6x7 8x9 10x11 12x13 14x15 16x18 17x19 20x22 21x23 24x26 27x32 30x34	3.730	6031390	2-122 ISO

## 2 B

## DOUBLE ENDED RING SPANNER

short pattern

- > Shallow offset
- > Thin walled rings
- > GEDORE vanadium steel 31CrV3, chrome-plated



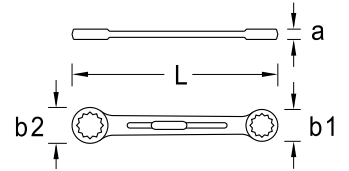
mm	L	a <sub>1</sub>	a <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>	h <sub>1</sub>	h <sub>2</sub>		Code	No.
6 x 7	115	5.5	6.5	10.5	12.0	6	7	0.023	6051150	2 B 6x7
8 x 9	120	6.5	7.5	12.5	13.5	8	9	0.029	6051230	2 B 8x9
10 x 11	125	6.5	7.5	15.0	17.0	8	9	0.037	6051310	2 B 10x11
12 x 13	135	8.5	9.5	18.5	20.0	10	11	0.056	6051580	2 B 12x13
14 x 15	145	9.5	10.5	21.0	22.0	11	12	0.075	6051660	2 B 14x15
17 x 19	155	10.5	11.5	25.0	28.0	15	17	0.105	6051740	2 B 17x19

# 4 FLAT RING SPANNER

straight pattern

- > Acc. to DIN 837 Form B, ISO 3318, ISO 1085
- > Flat pattern
- > Thin walled rings

- > UD-profile
- > GEDORE vanadium steel 31CrV3, chrome-plated
- \* not standardised



Ø mm	L	a	b <sub>1</sub>	b <sub>2</sub>	$\frac{a}{b_1}$	Code	No.
6 x 7	99	4.5	10.0	11.5	0.014	6052710	4 6x7
8 x 9	114	5.2	13.0	14.5	0.024	6053010	4 8x9
8 x 10	115	5.2	13.0	16.0	0.022	6053280	4 8x10
10 x 11	131	5.8	16.0	17.0	0.034	6053440	4 10x11
10 x 13	149	6.4	16.0	20.5	0.045	6053520	4 10x13
12 x 13	149	6.4	19.0	20.5	0.049	6053870	4 12x13
13 x 15	161	7.2	20.5	23.0	0.064	6054170	4 13x15
14 x 15	161	7.2	21.5	23.0	0.064	6054250	4 14x15
13 x 17	167	7.8	20.5	25.5	0.074	6054330	4 13x17
14 x 17	169	7.8	21.5	25.5	0.077	6054410	4 14x17
16 x 17	169	7.8	24.5	25.5	0.084	6054680	4 16x17
17 x 19	186	8.5	25.5	28.0	0.098	6054760	4 17x19
18 x 19	186	8.5	27.0	28.0	0.106	6054840	4 18x19
19 x 22	209	9.4	28.0	32.5	0.136	6054920	4 19x22
20 x 22	*	209	9.4	29.5	0.134	6055060	4 20x22

Ø mm	L	a	b <sub>1</sub>	b <sub>2</sub>	$\frac{a}{b_1}$	Code	No.
19 x 24	*	233	10.0	28.0	0.176	6055140	4 19x24
21 x 23	*	233	10.0	30.5	0.171	6055220	4 21x23
22 x 24		233	10.0	32.5	0.184	6055300	4 22x24
24 x 26	*	261	10.8	35.5	0.230	6055490	4 24x26
24 x 27		260	10.8	35.5	0.249	6055570	4 24x27
25 x 28	*	289	11.6	36.5	0.273	6055730	4 25x28
24 x 30		290	11.6	35.5	0.303	6055650	4 24x30
27 x 32		320	12.6	39.0	0.373	6055810	4 27x32
30 x 32		320	12.6	43.5	0.399	6056030	4 30x32
30 x 36		357	13.8	43.5	0.469	6056110	4 30x36
32 x 36		357	13.8	46.0	0.492	6056380	4 32x36
36 x 41		391	15.0	51.5	0.616	6056460	4 36x41
41 x 46		431	16.2	59.0	0.789	6056540	4 41x46
46 x 50		473	16.5	66.0	1.035	6056620	4 46x50

# 4 FLAT RING SPANNER SET

- > Made up of sizes most in use
- > Flat pattern
- > Thin walled rings
- > UD-profile
- > Acc. to DIN 837 Form B, ISO 3318, ISO 1085
- > GEDORE vanadium steel 31CrV3, chrome-plated

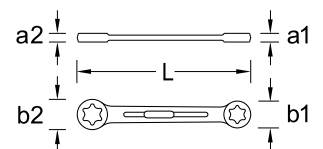


pieces	Contents	$\frac{a}{b_1}$	Code	No.
8	6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22	0.521	6061700	4-8
12	6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x26 25x28 27x32	1.549	6062000	4-12
12	6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 25x28 30x32	2.000	6062190	4-120

# TX 4 FLAT RING SPANNER

straight pattern, for protruding TORX® head screws

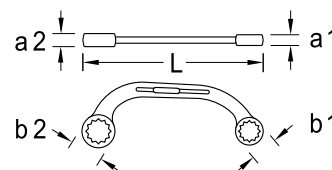
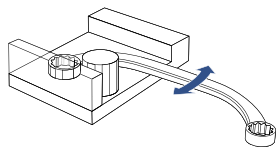
- > GEDORE vanadium steel 31CrV3, chrome-plated
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



Ø	□ mm	★ mm	L	a <sub>1</sub>	a <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>	$\frac{a_1}{b_1}$	Code	No.
E6xE8	M5 - M7	5,74 x 7,52	110	5.0	6.0	9.0	11.0	0.014	6059800	TX 4 E6xE8
E10xE12	M8 - M10	9,42 x 11,17	140	7.0	8.0	13.0	15.0	0.039	6059990	TX 4 E10xE12
E14xE18	M12 - M14	12,9 x 16,7	180	8.5	9.5	17.0	21.0	0.074	6060140	TX 4 E14xE18
E20xE24	M16 - M20	18,45 x 22,16	226	11.5	13.5	24.5	28.5	0.163	6060220	TX 4 E20xE24

## SPECIAL

- > Thin walled rings
- > GEDORE vanadium steel 31CrV3, chrome-plated
- > Specialists in tight spaces



## 304 / 304 (AF) HALF-MOON RING SPANNER

Ø mm	L	a <sub>1</sub>	a <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>	⚖	Code	No.
11 x 13	150	7.0	7.5	17.0	20.5	0.077	6470040	304 11x13
13 x 15	185	8.5	8.5	20.5	23.0	0.129	6470630	304 13x15
13 x 17	185	8.5	8.5	20.5	25.5	0.140	6470120	304 13x17
14 x 16	185	8.5	8.5	21.5	24.5	0.137	6470200	304 14x16

Ø mm	L	a <sub>1</sub>	a <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>	⚖	Code	No.
14 x 17	185	8.5	8.5	21.5	25.5	0.144	6470390	304 14x17
15 x 17	185	8.5	8.5	23.0	25.5	0.150	6470470	304 15x17
16 x 18	185	8.5	8.5	24.5	27.0	0.163	6567550	304 16x18
19 x 22	230	10.0	10.5	28.0	32.5	0.261	6470550	304 19x22

### INCH

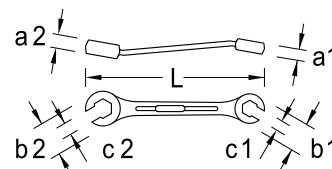
Ø" AF	L	a <sub>1</sub>	a <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>	⚖	Code	No.
7/16 x 1/2	150	7.0	7.5	17.0	20.5	0.079	6471010	304 7/16x1/2AF
9/16 x 5/8	185	8.5	8.5	21.5	24.5	0.139	6471280	304 9/16x5/8AF

Ø" AF	L	a <sub>1</sub>	a <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>	⚖	Code	No.
5/8 x 3/4	230	10.0	10.5	24.5	28.0	0.219	6471360	304 5/8x3/4AF
3/4 x 7/8	230	10.0	10.5	28.0	32.5	0.247	6471440	304 3/4x7/8AF

## NO. 400

- > Acc. to DIN 3118
- > Sizes 8x10 to 12x14 mm with hexagon

- > GEDORE vanadium steel 31CrV3, chrome-plated
- > For applications involving hydraulic/brake lines



## 400 (MM) / 400 (AF) FLARE NUT SPANNER, OPEN

\* not standardised

Ø mm	L	a <sub>1</sub>	a <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>	c <sub>1</sub>	c <sub>2</sub>	⚖	Code	No.
8 x 10	140	6.5	8.0	18	20	6.0	7.0	0.045	6057190	400 8x10
9 x 11	145	7.5	8.5	19	22	6.5	8.5	0.059	6056970	400 9x11
10 x 11	150	8.0	9.5	20	22	7.0	8.5	0.064	6057270	400 10x11
10 x 12	150	8.0	9.5	20	24	7.0	9.0	0.073	6051070	400 10x12
11 x 13	160	8.5	10.5	22	26	8.5	10.0	0.077	6057350	400 11x13
12 x 14	170	9.5	11.2	24	28	9.0	11.0	0.106	6057430	400 12x14
13 x 15	180	10.5	11.8	26	29	10.0	12.0	0.116	6057000	400 13x15
14 x 17	195	11.5	12.2	28	32	11.0	14.0	0.136	6057510	400 14x17

Ø mm	L	a <sub>1</sub>	a <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>	c <sub>1</sub>	c <sub>2</sub>	⚖	Code	No.
17 x 19	210	12.2	13.2	32	35	14.0	15.0	0.179	6057780	400 17x19
19 x 22	230	13.2	15.2	35	41	15.0	17.0	0.246	6058670	400 19x22
22 x 24	250	15.2	16.2	41	45	17.0	18.0	0.335	6057860	400 22x24
24 x 27	270	16.2	17.2	45	48	18.0	20.0	0.408	6058750	400 24x27
30 x 32	300	20.2	22.2	50	52	22.0	24.0	0.575	6058830	400 30x32
36 x 41	351	25.2	28.2	58	66	25.0	32.0	0.980	1933175	400 36x41
46 x 50	396	31.5	33.5	74	79	35.0	39.0	0.800	2297183	400 46x50

### INCH

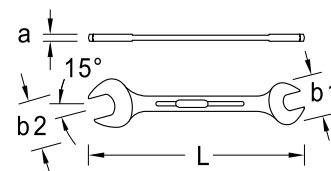
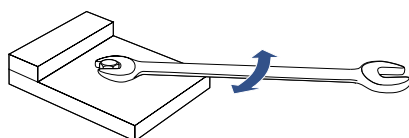
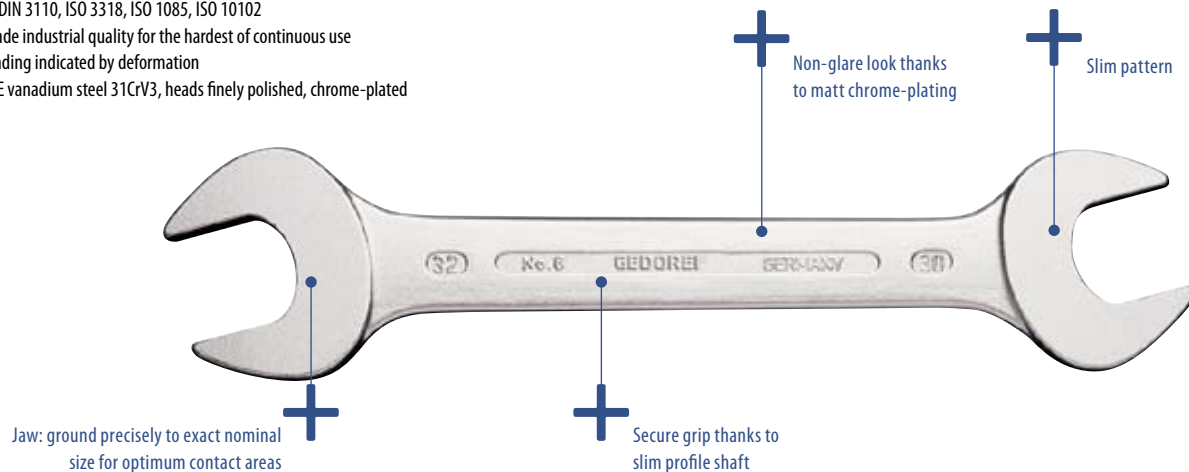
Ø" AF	L	a <sub>1</sub>	a <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>	c <sub>1</sub>	c <sub>2</sub>	⚖	Code	No.
5/16 x 3/8	140	6.5	8.0	18	20	6.0	7.0	0.043	6057940	400 5/16x3/8AF
3/8 x 7/16	150	8.0	8.5	20	22	7.0	8.5	0.057	6058080	400 3/8x7/16AF
7/16 x 1/2	160	8.5	10.5	22	26	8.5	10.0	0.076	6058160	400 7/16x1/2AF
1/2 x 9/16	170	9.5	11.2	24	28	10.0	11.0	0.092	6058240	400 1/2x9/16AF

Ø" AF	L	a <sub>1</sub>	a <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>	c <sub>1</sub>	c <sub>2</sub>	⚖	Code	No.
9/16 x 5/8	195	11.2	12.2	28	32	11.0	13.0	0.129	6058320	400 9/16x5/8AF
5/8 x 3/4	210	12.2	13.2	32	35	13.0	15.0	0.178	6058400	400 5/8x3/4AF
3/4 x 7/8	230	13.2	15.2	35	41	15.0	17.0	0.235	6056700	400 3/4x7/8AF
7/8 x 1	250	15.2	16.2	41	45	17.0	19.0	0.304	6058590	400 7/8x1AF

## Open Ended Spanners

### NO. 6 - "STRONG AND ACCURATE"

- > Acc. to DIN 3110, ISO 3318, ISO 1085, ISO 10102
- > Top-grade industrial quality for the hardest of continuous use
- > Overloading indicated by deformation
- > GEDORE vanadium steel 31CrV3, heads finely polished, chrome-plated



## 6 (MM) DOUBLE OPEN ENDED SPANNER

\* not standardised

Ø mm	L	a	b <sub>1</sub>	b <sub>2</sub>	⚖	Code	No.	
4 x 4,5	*	100	3.4	13.0	14.0	0.014	6063400	6 4x4,5
4 x 5	*	100	3.4	13.0	14.0	0.013	6063590	6 4x5
5 x 5,5	*	100	3.4	14.5	16.0	0.016	6063670	6 5x5,5
5,5 x 7	*	122	3.5	16.0	17.5	0.023	6063750	6 5,5x7
6 x 7		122	3.5	16.5	17.5	0.022	6063830	6 6x7
6 x 8	*	122	3.5	16.5	20.0	0.025	6063910	6 6x8
7 x 8		140	3.8	17.5	20.0	0.034	6064050	6 7x8
7 x 9	*	140	3.8	17.5	22.0	0.035	6064130	6 7x9
8 x 9		140	3.8	20.0	22.0	0.035	6064210	6 8x9
8 x 10		140	4.0	20.0	23.5	0.036	6064480	6 8x10
9 x 10	*	157	4.5	22.0	23.5	0.046	6064560	6 9x10
9 x 11	*	157	4.5	22.0	26.5	0.050	6064640	6 9x11
10 x 11		157	4.5	23.5	26.5	0.050	6064720	6 10x11
10 x 12	*	157	4.5	23.5	28.0	0.051	6064800	6 10x12
10 x 13		172	5.0	23.5	30.5	0.065	6064990	6 10x13
11 x 13		172	5.0	26.5	30.5	0.068	6065100	6 11x13
11 x 14	*	172	5.0	26.5	32.0	0.072	6065290	6 11x14
12 x 13		172	5.0	28.0	30.5	0.069	6065370	6 12x13
12 x 14		172	5.0	28.0	32.0	0.076	6065450	6 12x14
13 x 14		178	5.0	30.5	32.0	0.081	6065530	6 13x14
13 x 15		188	5.5	30.5	34.5	0.098	6065610	6 13x15
13 x 16		190	5.5	30.5	35.5	0.098	6068980	6 13x16
14 x 15		188	5.5	32.0	34.5	0.095	6065880	6 14x15
13 x 17		205	6.0	30.5	38.5	0.122	6065960	6 13x17
14 x 17		205	6.0	32.0	38.5	0.119	6066180	6 14x17
16 x 17		205	6.0	35.5	38.5	0.128	6066260	6 16x17
16 x 18		205	6.0	35.5	40.5	0.129	6066340	6 16x18
17 x 19		222	6.5	38.5	43.0	0.168	6066420	6 17x19

Ø mm	L	a	b <sub>1</sub>	b <sub>2</sub>	⚖	Code	No.	
18 x 19		222	6.5	40.5	43.0	0.174	6066500	6 18x19
18 x 21		236	7.0	40.5	46.0	0.196	6069360	6 18x21
17 x 22	*	236	7.0	38.5	48.5	0.205	6066690	6 17x22
19 x 22		236	7.0	43.0	48.5	0.219	6066770	6 19x22
20 x 22	*	236	7.0	44.5	48.5	0.213	6066850	6 20x22
19 x 24		250	7.5	43.0	53.5	0.256	6066930	6 19x24
21 x 23	*	247	7.5	46.0	50.0	0.245	6067070	6 21x23
21 x 24		250	7.5	46.0	53.5	0.268	6069440	6 21x24
22 x 24		250	7.5	48.5	53.5	0.260	6067150	6 22x24
22 x 27	*	266	8.0	48.5	60.0	0.336	6067230	6 22x27
24 x 26	*	266	8.0	53.5	56.5	0.321	6067310	6 24x26
24 x 27		266	8.0	53.5	60.0	0.337	6067580	6 24x27
24 x 30		280	8.5	53.5	63.5	0.390	6067660	6 24x30
25 x 28	*	280	8.5	55.0	60.0	0.378	6067740	6 25x28
27 x 29	*	302	9.0	60.0	63.5	0.456	6067820	6 27x29
27 x 30		302	9.0	60.0	63.5	0.466	6067900	6 27x30
27 x 32		302	9.0	60.0	68.0	0.487	6068040	6 27x32
30 x 32		302	9.0	63.5	68.0	0.504	6068120	6 30x32
30 x 34		302	9.0	63.5	72.0	0.503	6069520	6 30x34
30 x 36		328	9.4	63.5	76.0	0.677	6068200	6 30x36
32 x 36		328	9.4	68.0	76.0	0.594	6068390	6 32x36
34 x 36		328	9.4	71.0	75.0	0.624	6069600	6 34x36
36 x 41		360	10.0	76.0	84.5	0.770	6068470	6 36x41
38 x 42	*	360	10.0	77.0	86.0	0.784	6068550	6 38x42
41 x 46		400	10.7	86.5	95.5	1.104	6068630	6 41x46
46 x 50		450	11.6	95.5	102.0	1.445	6068710	6 46x50
55 x 60	*	560	18.0	113.0	123.0	3.160	2312107	6 55x60

## 6 (AF)

### DOUBLE OPEN ENDED SPANNER

INCH

6 (AF)	L	a	b <sub>1</sub>	b <sub>2</sub>	⚖️	Code	No.	6 (AF)	L	a	b <sub>1</sub>	b <sub>2</sub>	⚖️	Code	No.
1/4 x 5/16	122	3.7	17.5	20.0	0.024	6070020	6 1/4x5/16AF	13/16 x 7/8	236	7.0	46.0	48.5	0.232	6071500	6 13/16x7/8AF
5/16 x 3/8	140	4.0	20.0	23.5	0.035	6070100	6 5/16x3/8AF	7/8 x 15/16	250	7.5	48.5	52.0	0.268	6071690	6 7/8x15/16AF
3/8 x 7/16	157	4.5	23.5	26.5	0.047	6070290	6 3/8x7/16AF	7/8 x 1.1/16	266	8.0	48.5	60.0	0.323	6073550	6 7/8x1.1/16AF
7/16 x 1/2	172	5.0	26.5	30.0	0.065	6070370	6 7/16x1/2AF	15/16 x 1	266	8.0	52.0	55.0	0.317	6071770	6 15/16x1AF
1/2 x 9/16	190	5.5	30.0	33.0	0.091	6070450	6 1/2x9/16AF	1 x 1.1/8	280	8.5	55.0	61.0	0.395	6071930	6 1x1.1/8AF
9/16 x 5/8	190	5.5	33.0	36.0	0.092	6070530	6 9/16x5/8AF	1.1/16 x 1.1/8	302	9.0	60.0	63.5	0.453	6072070	6 1.1/16x1.1/8AF
19/32 x 11/16	205	6.0	34.5	39.5	0.130	6070610	6 19/32x11/16AF	1.1/16 x 1.1/4	302	9.0	60.0	68.0	0.520	6072150	6 1.1/16x1.1/4AF
5/8 x 11/16	205	6.0	36.0	39.5	0.124	6070880	6 5/8x11/16AF	1.1/8 x 1.5/16	302	9.0	65.5	70.5	0.537	6072230	6 1.1/8x1.5/16AF
5/8 x 3/4	222	6.5	36.0	42.5	0.152	6070960	6 5/8x3/4AF	1.3/16 x 1.5/16	302	9.0	65.5	70.5	0.521	6072310	6 1.3/16x1.5/16AF
3/4 x 25/32	222	6.5	42.5	43.5	0.189	6071260	6 3/4x25/32AF	1.1/4 x 1.3/8	328	9.4	69.5	75.5	0.604	6072580	6 1.1/4x1.3/8AF
3/4 x 7/8	236	7.0	42.5	48.5	0.216	6071340	6 3/4x7/8AF	1.5/16 x 1.1/2	328	9.4	74.0	79.0	0.656	6072740	6 1.5/16x1.1/2AF
25/32 x 13/16	236	7.0	44.5	46.0	0.206	6071420	6 25/32x13/16AF	1.3/8 x 1.1/2	328	9.4	74.0	79.0	0.655	6072820	6 1.3/8x1.1/2AF

## 6 (MM) / 6 (AF)

### DOUBLE OPEN ENDED SPANNER SET



6-12

pieces	No.	Contents	⚖️	Code
6	6-6	6x7 8x9 10x11 12x13 14x15 16x17	0.415	6076810
8	6-8	6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22	0.819	6077380
10	6-10	6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27	1.412	6077540
10	6-100	6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 24x27 30x32	1.660	6077620
12	6-12	6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x26 25x28 27x32	2.500	6077700
12	6-120	6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 25x28 30x32	2.350	6077890
12	6-122 ISO	6x7 8x9 10x11 12x13 14x15 16x18 17x19 20x22 21x23 24x26 27x32 30x34	2.383	6078350

INCH

pieces	No.	Contents	⚖️	Code
8	6-8 A	1/4x5/16 5/16x3/8 7/16x1/2 9/16x5/8 19/32x11/16 3/4x25/32 13/16x7/8 15/16x1"	1.174	6078270
12	6-12 A	1/4x5/16 5/16x3/8 3/8x7/16 7/16x1/2 1/2x9/16 9/16x5/8 19/32x11/16 5/8x3/4 3/4x7/8 25/32x13/16 15/16x1 1.1/16x1.1/8"	1.952	6078510

## H 6

### DOUBLE OPEN ENDED SPANNER SET

› H = set in robust plastic holder



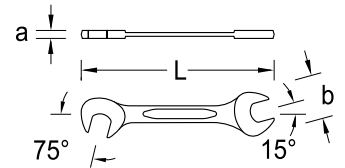
H 6-8

pieces	No.	Contents	⚖️	Code
8	H 6-8	6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22	0.995	6079400
12	H 6-12	6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x26 25x28 27x32	2.545	6079670
12	H 6-120	6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 25x28 30x32	2.645	6079750

# 8 (MM) DOUBLE ENDED MIDGET SPANNER

small

- > With same size each end
- > Jaws set at 15° and 75°
- > GEDORE vanadium steel 31CrV3, heads finely polished, chrome-plated



Ø mm	L	a	b	kg	Code	No.
4.0	69.0	2.2	10.4	0.005	6093900	8 4
4.5	69.0	2.2	10.4	0.006	6094040	8 4,5
5.0	77.3	2.2	12.4	0.006	6094120	8 5
5.5	77.3	2.2	12.4	0.007	6094200	8 5,5
6.0	77.3	2.2	12.4	0.008	6094390	8 6
7.0	89.5	2.6	14.8	0.011	6094470	8 7
8.0	95.5	3.1	17.5	0.016	6094550	8 8
9.0	103.8	3.1	20.2	0.020	6094630	8 9
10.0	103.8	3.1	20.2	0.021	6094710	8 10
11.0	115.2	3.1	24.0	0.028	6094980	8 11
12.0	115.2	3.1	24.0	0.028	6095010	8 12
13.0	130.5	3.1	28.0	0.037	6095280	8 13
14.0	130.5	3.1	28.0	0.038	6095360	8 14

## 8-011 DOUBLE ENDED MIDGET SPANNER SET

11 pieces

- > In plastic case



## 8-0100 DOUBLE ENDED MIDGET SPANNER SET

10 pieces

- > In blue plastic wallet



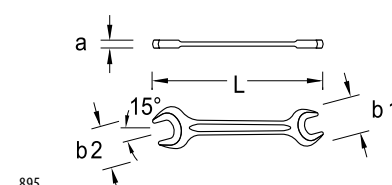
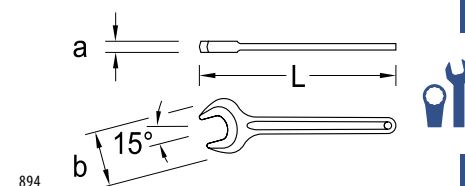
pieces	No.	Contents	kg	Code
11	8-011	4,5 5 5,5 6 7 8 9 10 11 12 13	0.280	1879146

pieces	No.	Contents	kg	Code
10	8-0100	5 5,5 6 7 8 9 10 11 12 13	0.225	6099000



## NO. 895 "BLACK DOUBLE OPEN ENDED SPANNERS" AND NO. 894 "BLACK SPANNERS"

- > Carefully forged and professionally machined
- > Jaw: ground precisely to exact nominal size for optimum contact areas
- > Overloading indicated by deformation
- > Secure grip thanks to profile shaft - very ergonomic and handy
- > Jaw set at 15°
- > GEDORE vanadium steel 31CrV3



## 895 (MM) DOUBLE OPEN ENDED SPANNER

- > Acc. to DIN 895, ISO 3318, ISO 1085
- > Manganese-phosphate finish up to 34x36 mm, steel-grey up from 36x41 mm and larger
- \* not standardised


Ø mm	L	a	b <sub>1</sub>	b <sub>2</sub>	⚖ kg	Code	No.
<b>6 x 7</b>	96	3.2	15.0	17.0	0.014	6583830	895 6x7
<b>7 x 8</b>	107	3.7	17.0	19.0	0.020	6583910	895 7x8
<b>8 x 9</b>	108	3.7	19.0	20.5	0.023	6584130	895 8x9
<b>8 x 10</b>	114	4.2	19.0	22.0	0.026	6584210	895 8x10
<b>9 x 11</b>	* 122	5.0	20.5	24.5	0.033	6584640	895 9x11
<b>10 x 11</b>	124	5.0	22.0	24.5	0.034	6584720	895 10x11
<b>10 x 12</b>	* 128	5.0	22.0	26.5	0.037	6584800	895 10x12
<b>10 x 13</b>	128	5.0	22.0	28.5	0.037	6584990	895 10x13
<b>11 x 13</b>	140	5.5	24.5	28.5	0.049	6585100	895 11x13
<b>12 x 13</b>	* 140	5.5	26.5	28.5	0.053	6585370	895 12x13
<b>12 x 14</b>	140	5.5	26.5	30.0	0.051	6585450	895 12x14
<b>13 x 14</b>	* 140	5.5	28.5	30.0	0.051	6585530	895 13x14
<b>13 x 15</b>	154	5.5	28.5	32.0	0.065	6585610	895 13x15
<b>13 x 15</b>	* 154	5.5	30.0	32.0	0.054	6585880	895 14x15
<b>13 x 17</b>	158	6.0	28.5	36.0	0.072	6585960	895 13x17
<b>14 x 17</b>	158	6.0	30.0	36.0	0.076	6586180	895 14x17
<b>16 x 17</b>	* 158	6.0	33.0	36.0	0.072	6586260	895 16x17
<b>17 x 19</b>	171	7.0	36.0	40.0	0.098	6586340	895 17x19
<b>18 x 19</b>	* 171	7.0	38.0	40.0	0.105	6586500	895 18x19
<b>17 x 22</b>	* 192	8.0	36.0	46.0	0.128	6586420	895 17x22


Ø mm	L	a	b <sub>1</sub>	b <sub>2</sub>	⚖ kg	Code	No.
<b>19 x 22</b>	195	8.0	40.0	46.0	0.141	6586690	895 19x22
<b>19 x 24</b>	207	9.0	40.0	50.0	0.175	6586770	895 19x24
<b>22 x 24</b>	221	9.0	46.0	50.0	0.191	6587070	895 22x24
<b>22 x 27</b>	* 233	9.8	46.0	56.0	0.228	6587150	895 22x27
<b>24 x 27</b>	246	9.8	50.0	56.0	0.250	6587230	895 24x27
<b>24 x 30</b>	269	10.8	50.0	62.0	0.334	6587580	895 24x30
<b>27 x 30</b>	275	10.8	56.0	62.0	0.354	6587660	895 27x30
<b>27 x 32</b>	275	11.8	56.0	66.0	0.404	6587740	895 27x32
<b>30 x 32</b>	278	11.8	62.0	66.0	0.411	6587820	895 30x32
<b>30 x 36</b>	306	12.8	62.0	74.0	0.478	6587900	895 30x36
<b>32 x 36</b>	310	12.8	66.0	74.0	0.489	6588040	895 32x36
<b>34 x 36</b>	320	13.3	70.0	74.0	0.582	6583080	895 34x36
<b>36 x 41</b>	347	13.8	74.0	84.0	0.693	6588120	895 36x41
<b>41 x 46</b>	383	14.8	84.0	94.0	0.917	6588200	895 41x46
<b>46 x 50</b>	420	15.8	94.0	102.0	1.227	6588390	895 46x50
<b>50 x 55</b>	463	16.8	102.0	112.0	1.457	6588470	895 50x55
<b>55 x 60</b>	504	17.7	112.0	122.0	1.881	6588550	895 55x60
<b>65 x 70</b>	* 580	19.7	132.0	142.0	2.730	6588630	895 65x70
<b>75 x 80</b>	* 665	21.7	152.0	162.0	4.070	6588710	895 75x80

# 894 (MM)


## SINGLE OPEN ENDED SPANNER


- > Acc. to DIN 894, ISO 3318
  - > Manganese-phosphate finish up to 38 mm, steel-grey up from 41 mm and larger
  - > Sizes 10 - 135 mm with hanging hole
- \* not standardised

Ø mm	L	a	b		Code	No.
6	73	3.2	15.5	0.010	6573600	894 6
7	78	3.2	17.0	0.010	6573790	894 7
8	94	3.5	19.0	0.015	6573870	894 8
9	100	4.0	20.0	0.017	6573950	894 9
10	106	4.5	22.0	0.022	6574090	894 10
11	112	5.0	24.5	0.029	6574170	894 11
12	124	5.0	26.5	0.035	6574250	894 12
13	132	5.5	28.5	0.039	6574330	894 13
14	140	5.5	30.0	0.044	6574410	894 14
15	145	5.5	32.0	0.046	6574680	894 15
16	155	5.5	33.0	0.056	6574760	894 16
17	159	6.0	36.0	0.060	6574840	894 17
18	165	6.2	38.0	0.067	6575220	894 18
19	170	7.0	40.0	0.081	6575060	894 19
22	193	8.0	46.0	0.113	6575300	894 22
24	217	9.0	50.0	0.154	6575570	894 24
25 *	217	9.0	52.0	0.142	6575650	894 25
27	239	9.8	56.0	0.199	6575810	894 27
30	263	10.8	62.0	0.249	6576380	894 30
32	275	11.8	66.0	0.374	6576540	894 32
34	290	12.3	70.0	0.365	6575730	894 34
36	305	12.8	74.0	0.392	6576700	894 36

Ø mm	L	a	b		Code	No.
38 *	305	12.8	74.0	0.406	6576890	894 38
41	344	13.8	84.0	0.568	6576970	894 41
46	380	14.8	94.0	0.704	6577000	894 46
50	413	15.8	102.0	0.956	6577190	894 50
55	459	16.8	112.0	1.125	6577270	894 55
60	494	17.7	122.0	1.439	6577350	894 60
65	528	18.7	132.0	1.686	6577430	894 65
70	572	19.7	142.0	2.111	6577510	894 70
75	610	20.7	152.0	2.782	6577780	894 75
80	645	21.7	162.0	2.905	6577860	894 80
85	690	23.0	173.0	3.895	6577940	894 85
90 *	690	23.0	173.0	3.720	6578080	894 90
95 *	847	25.0	195.0	6.335	6578160	894 95
100 *	847	25.0	195.0	6.125	6578240	894 100
105 *	1000	29.0	217.0	8.905	6578320	894 105
110 *	1000	29.0	217.0	8.650	6578400	894 110
115 *	1000	29.0	217.0	8.480	6578590	894 115
120 *	1000	29.0	220.0	8.260	6578670	894 120
125 *	1000	29.0	220.0	8.345	6576030	894 125
130 *	1000	29.0	225.0	8.230	6576110	894 130
135 *	1000	29.0	225.0	7.775	6576460	894 135

## INCH

Ø "AF	L	a	b		Code	No.
1/4	73	3.2	15.5	0.009	6579210	894 1/4AF
5/16	94	3.5	19.0	0.013	6579560	894 5/16AF
3/8	100	4.0	20.0	0.014	6579720	894 3/8AF
7/16	112	5.0	24.5	0.026	6579990	894 7/16AF
1/2	132	5.5	26.5	0.040	6580060	894 1/2AF
9/16	140	5.5	30.0	0.047	6580140	894 9/16AF
5/8	155	5.5	33.0	0.053	6580300	894 5/8AF

Ø "AF	L	a	b		Code	No.
3/4	170	7.0	40.0	0.074	6580570	894 3/4AF
13/16	170	7.0	40.0	0.074	6580730	894 13/16AF
7/8	193	8.0	46.0	0.106	6580810	894 7/8AF
15/16	217	9.0	50.0	0.147	6581030	894 15/16AF
1	217	9.0	52.0	0.156	6581110	894 1AF
1.1/16	239	10.0	56.0	0.186	6581380	894 1.1/16AF
1.1/8	239	10.0	56.0	0.205	6581460	894 1.1/8AF


## Open ended spanners

625 M  
SPANNER SET MINI

11 pieces

- > Sheet steel, hardened, bright nickel finish
- > Contents: 8 open ended spanners, 1 contact file, 1 screwdriver, 1 feeler gauge 0.40 mm




Contents		Code	No.
4 4,5 5 5,5 6 6,5 7 7,5	0.047	6524820	625 M

625 A  
SPANNER SET MINI

11 pieces

- > Sheet steel, hardened, bright nickel finish
- > Contents: 8 open ended spanners, 1 contact file, 1 screwdriver, 1 feeler gauge 0.40 mm

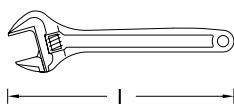






Contents		Code	No.
3/16 7/32 1/4 9/32 5/16 11/32 3/8 7/16"	0.053	6524900	625 A

60 CP  
ADJUSTABLE SPANNER

open end, chrome-plated

- > Acc. to ISO 6787
- > Jaw set at 15°
- > Swedish pattern, roller with left hand thread
- > With scale
- > Chrome-vanadium steel, chrome-plated, polished heads

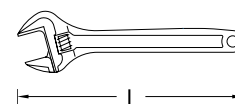






Size"	L	mm 	"inch 			Code	No.
6	155	20	25/32	0-20	0.145	6380990	60 CP 6
8	205	25	1	0-25	0.270	6381020	60 CP 8
10	255	30	1.3/16	0-30	0.420	6381100	60 CP 10
12	305	36	1.7/16	0-36	0.785	6381290	60 CP 12

60 P  
ADJUSTABLE SPANNER

open end, phosphated

- > ISO 6787, jaw set at 15°
- > Swedish pattern, roller with left hand thread
- > With scale
- > Chrome-vanadium steel
- > Phosphate finish, polished heads



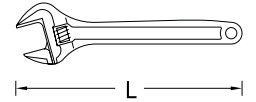
Size"	L	mm 	"inch 			Code	No.
6	155	20	25/32	0-20	0.145	6380560	60 P 6
8	205	25	1	0-25	0.295	6380640	60 P 8
10	255	30	1.3/16	0-30	0.430	6380720	60 P 10
12	305	36	1.7/16	0-36	0.705	6380800	60 P 12



# 62 P ADJUSTABLE SPANNER

open end, phosphated

- > Sturdy industrial design
- > Sizes 6" - 18" = ISO 6787, jaw set at 15°
- > Size 24" = ISO 6787, jaw set at 22,5°
- > Swedish pattern, roller with left hand thread
- > GEDORE vanadium steel 31CrV3
- > Phosphate finish, polished heads



Size "	L	mm	"inch			Code	No.
6	150	20	25/32	–	0.155	2669072	62 P 6
8	200	25	1	–	0.250	2669080	62 P 8
10	250	30	1.3/16	–	0.460	2669099	62 P 10
12	300	36	1.7/16	–	0.700	2669102	62 P 12
15	380	43	1.11/16	–	1.060	6368430	62 P 15
18	455	53	2.1/16	–	1.715	6368510	62 P 18
24	610	63	2.1/2	–	3.555	6360880	62 P 24

# 60 S ADJUSTABLE WRENCH

open end

- > Acc. to ISO 6787, jaw set at 15°
- > Swedish pattern, roller with left-hand thread
- > With scale
- > The protected mechanism and additional striking face allow light blows to be applied without impairing the function of the wrench
- > Comfort 2-component handle (versions JC and JP) for fatigue-free working
- > Grip recess ensures secure hold - even with greasy hands
- > Hanging hole
- > Chrome-vanadium steel
- > Version C nickel and chrome-plated, head ground
- > Version P manganese phosphated, head ground
- > Version JP and JC complete with plastic handle



60 S 8 P



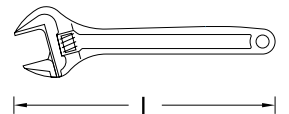
60 S 8 JP



60 S 8 C



60 S 8 JC



Size "	mm	mm			Code	No.
6	153.0	20	0-20	0.160	2668815	60 S 6 P
8	206.5	25	0-25	0.340	1966294	60 S 8 P
10	254.5	30	0-30	0.251	2171023	60 S 10 P
12	305.0	36	0-36	0.780	2668874	60 S 12 P
6	153.0	20	0-20	0.180	2668823	60 S 6 JC
8	206.5	25	0-25	0.360	1966308	60 S 8 JC
10	254.5	30	0-30	0.500	2171015	60 S 10 JC
12	305.0	36	0-36	0.860	2668882	60 S 12 JC

Size "	mm	mm			Code	No.
6	153.0	20	0-20	0.180	2668831	60 S 6 C
8	206.5	25	0-25	0.340	1966316	60 S 8 C
10	254.5	30	0-30	0.480	2170973	60 S 10 C
12	305.0	36	0-36	0.780	2668890	60 S 12 C
6	153.0	20	0-20	0.180	2668858	60 S 6 JC
8	206.5	25	0-25	0.360	1966324	60 S 8 JC
10	254.5	30	0-30	0.500	2171007	60 S 10 JC
12	305.0	36	0-36	0.860	2668904	60 S 12 JC

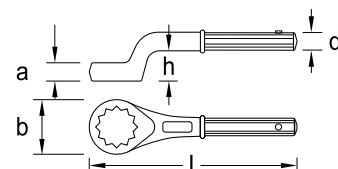
## Deep Ring Spanners

### NO. 2 A - "STRONG"

- > Heavy-duty pattern for highest torques
- > GEDORE vanadium steel 31CrV3, chrome-plated
- > **Special sizes available on request**
- > Optional accessories: No. 2 AR extension tube for extending the lever arm



No. 2A + 2 AR



## 2 A SINGLE ENDED RING SPANNER

offset

Ø mm	L	a	b	d	h	2 AR	kg	Code	No.
24	180	17.4	38.0	18.3	29.0	0	0.389	6033840	2 A 24
27	190	17.4	41.5	18.3	31.5	0	0.430	6033920	2 A 27
30	200	18.4	47.0	18.3	33.0	0	0.514	6034060	2 A 30
32	235	18.4	50.0	21.3	34.0	1	0.732	6034140	2 A 32
34	235	18.4	50.0	21.3	34.0	1	0.748	6030150	2 A 34
36	245	20.0	55.0	21.3	35.0	1	0.796	6034220	2 A 36
41	265	22.0	61.5	21.3	39.0	1	0.934	6034300	2 A 41
46	280	23.0	68.5	24.1	40.0	2	1.220	6034490	2 A 46
50	290	25.5	75.0	24.1	42.0	2	1.388	6034570	2 A 50

Ø mm	L	a	b	d	h	2 AR	kg	Code	No.
55	300	28.0	80.0	24.1	45.0	2	1.492	6034650	2 A 55
60	345	30.5	89.0	29.1	49.0	3	2.283	6034730	2 A 60
65	355	33.0	97.0	29.1	53.0	3	2.535	6034810	2 A 65
70	365	35.5	104.0	29.1	55.0	3	2.736	6035030	2 A 70
75	375	38.0	109.0	29.1	57.5	3	2.982	6035110	2 A 75
80	385	40.5	124.0	29.1	59.0	3	3.770	6035380	2 A 80
85	385	40.5	124.0	29.1	59.0	3	3.605	6035460	2 A 85
90	410	45.0	140.0	29.1	63.0	3	4.850	6035540	2 A 90
95	410	45.0	140.0	29.1	63.0	3	4.540	6035620	2 A 95

## 2 AR EXTENSION TUBE

- > For ring spanner No. 2 A, steel tube, chrome-plated
- > For extending the lever arm and applying higher forces



Internal-Ø	Ø mm	l mm	kg	Code	No.
19	24-30	460	0.614	6048600	2 AR 0
22	32-41	610	1.568	6048790	2 AR 1
25	46-55	760	2.806	6048870	2 AR 2
30	60-95	860	3.715	6048950	2 AR 3

## 2 ATM SINGLE ENDED RING SPANNER SET

19 pieces

- > Heavy-duty pattern for highest torques
- > GEDORE vanadium steel 31CrV3, chrome-plated



Contents	kg	Code	No.
2 A 24 27 30 32 36 41 46 50 55 60 65 70 75 80 85 2 AR 0 1 2 3	65.0	6049250	2 ATM

## Slogging Spanners

# POWERFUL

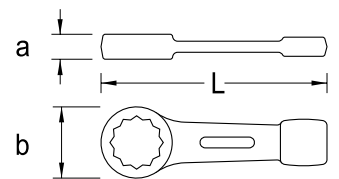
- > Top-grade industrial quality for the hardest of continuous use
- > For very heavy-duty work

> Special sizes available on request up to size 250 mm



## 306 (MM) / 306 (AF) RING SLOGGING SPANNER

- > Acc. to DIN 7444
- > Up to length 435 mm chrome-vanadium steel 31CrV3, above 480 mm from C35
- \* not standardised



Ø mm		L	a	b	⚖️	Code	No.
22	*	165	15.0	43.0	0.220	1344331	306 22
24	*	160	15.0	42.5	0.262	6475000	306 24
27		180	15.5	47.0	0.328	6475190	306 27
30		190	16.5	51.5	0.393	6475270	306 30
32		195	16.5	53.0	0.428	6475350	306 32
34		195	16.5	53.0	0.401	6481670	306 34
36		205	19.5	60.0	0.674	6475430	306 36
38	*	205	19.5	60.0	0.635	6474460	306 38
41		225	20.5	66.0	0.790	6475510	306 41
46		240	22.5	75.0	0.999	6475780	306 46
50		250	23.5	80.0	1.093	6475860	306 50
55		270	25.0	87.5	1.452	6475940	306 55
60		270	26.0	93.5	1.577	6476080	306 60
65	⚖️	290	29.0	101.0	2.580	6476160	306 65
70		320	32.5	109.5	2.580	6476240	306 70
75		325	34.0	114.5	3.010	6476320	306 75

Ø mm		L	a	b	⚖️	Code	No.
80		345	35.0	123.0	3.515	6476400	306 80
85		360	37.0	129.0	3.895	6476590	306 85
90		400	41.5	152.0	6.370	6476670	306 90
95		400	41.5	152.0	6.285	6476750	306 95
100		400	41.5	152.0	6.030	6476830	306 100
105		435	47.5	172.0	8.660	6476910	306 105
110		435	47.5	172.0	8.440	6477050	306 110
115		435	47.5	172.0	8.160	6477130	306 115
120		480	54.0	182.0	9.855	6477210	306 120
125	*	480	54.0	182.0	9.665	6477480	306 125
130		520	58.0	202.0	12.295	6477560	306 130
135		520	58.0	202.0	11.790	6477640	306 135

## INCH

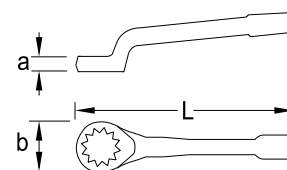
Ø"AF		L	a	b	⚖️	Code	No.
1	⚖️	160	15.0	42.5	0.262	6474540	306 1AF
1.1/16		180	15.5	47.0	0.325	6474620	306 1.1/16AF
1.1/8		180	15.5	47.0	0.315	6474700	306 1.1/8AF
1.3/16		190	16.5	51.5	0.389	6474890	306 1.3/16AF
1.1/4		190	16.5	51.5	0.386	6474970	306 1.1/4AF
1.5/16		195	16.5	53.0	0.415	6478530	306 1.5/16AF
1.3/8	⚖️	195	16.5	53.0	0.409	6478610	306 1.3/8AF
1.7/16		205	19.5	60.0	0.660	6478880	306 1.7/16AF
1.1/2		205	19.5	60.0	0.641	6478960	306 1.1/2AF
1.5/8		225	20.5	66.0	0.820	6479180	306 1.5/8AF
1.11/16		225	20.5	66.0	0.766	6479260	306 1.11/16AF
1.3/4		225	20.5	66.0	0.770	6479340	306 1.3/4AF
1.13/16		240	22.5	75.0	0.982	6479420	306 1.13/16AF
1.7/8		240	22.5	75.0	0.985	6479500	306 1.7/8AF

Ø"AF		L	a	b	⚖️	Code	No.
2		250	23.5	80.0	1.090	6479690	306 2AF
2.1/16		250	23.5	80.0	1.079	6479770	306 2.1/16AF
2.1/8		250	23.5	80.0	1.039	6479850	306 2.1/8AF
2.3/16		270	25.0	87.5	1.431	6479930	306 2.3/16AF
2.1/4		270	25.0	87.5	1.397	6480000	306 2.1/4AF
2.3/8		270	26.0	93.5	1.616	6480190	306 2.3/8AF
2.7/16		270	26.0	93.5	1.531	6480270	306 2.7/16AF
2.9/16		290	29.0	101.0	2.076	6480350	306 2.9/16AF
2.5/8		290	29.0	101.0	2.035	6480430	306 2.5/8AF
2.3/4		320	32.5	109.5	2.545	6480510	306 2.3/4AF
3		325	34.0	114.5	3.005	6480780	306 3AF

## 306 G

### RING SLOGGING SPANNER DEEP OFFSET

- > For very heavy-duty work
- > To use with club hammer or pneumatic hammer for tightening or loosening
- > Hot forged, sandblasted



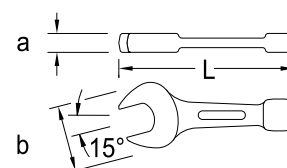
Ø mm	L	a	b	⚖️	Code	No.
27	270	25	51	1.098	1415875	306 G 27
30	270	25	51	1.080	1415913	306 G 30
32	270	25	51	1.061	1415972	306 G 32
36	310	30	67	2.010	1416014	306 G 36
41	310	30	67	1.842	1416057	306 G 41
46	340	35	79	2.950	1416111	306 G 46
50	360	40	94	4.410	1416197	306 G 50
55	360	40	94	4.155	1416227	306 G 55

Ø mm	L	a	b	⚖️	Code	No.
60	380	45	108	5.690	1416308	306 G 60
65	380	45	108	5.490	1416332	306 G 65
70	406	50	126	7.455	1416405	306 G 70
75	406	50	126	7.165	1416456	306 G 75
80	406	50	126	6.970	1416480	306 G 80
85	459	57	151	10.630	1416537	306 G 85
90	459	57	151	10.480	1416553	306 G 90
95	459	57	151	9.830	1416588	306 G 95

## 133

### OPEN ENDED SLOGGING SPANNER

- > For very heavy-duty work
- > Acc. to DIN 133
- > Up to length 500 mm chrome-vanadium steel 31CrV3, above 525 mm material C5
- > Special sizes available on request
- \* not standardised



Ø mm	L	a	b	⚖️	Code	No.
27	181	16.3	56.0	0.385	6410570	133 27
30	188	16.7	62.0	0.451	6400260	133 30
32	196	17.2	66.0	0.552	6400340	133 32
34	196	17.2	66.0	0.559	6411030	133 34
36	211	18.2	76.0	0.709	6400420	133 36
41	227	19.2	88.0	1.000	6400500	133 41
46	256	19.7	98.0	1.258	6400690	133 46
50	281	21.2	106.5	1.609	6400770	133 50
55	310	23.6	117.0	2.131	6400850	133 55
60	321	24.1	128.0	2.484	6400930	133 60
65	351	27.6	139.0	3.340	6401070	133 65
70	370	29.6	150.0	4.325	6401150	133 70

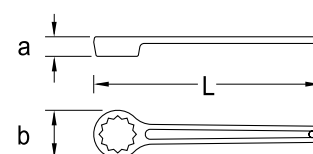
Ø mm	L	a	b	⚖️	Code	No.
75	390	31.0	161.5	5.110	6401230	133 75
80	406	34.0	172.5	6.020	6401310	133 80
85	406	34.0	172.5	5.770	6401580	133 85
90	456	38.4	194.0	8.905	6401660	133 90
95	456	38.4	194.0	8.985	6401740	133 95
100	500	46.3	225.5	13.315	6401820	133 100
105	500	46.3	225.5	13.220	6401900	133 105
110	500	46.3	225.5	13.045	6402040	133 110
115	525	54.2	245.5	17.660	6402120	133 115
120	525	54.2	245.5	17.610	6402200	133 120
125	*	545	50.0	255.0	6402390	133 125
130		575	55.0	275.0	6402470	133 130

## 308

### DEEP RING SPANNER

straight pattern

- > Acc. to DIN 3111
- > Especially suited as counter-tool for screw connections
- > In heat-treated steel as per EN 10083, steel-grey
- > Further sizes available on request
- \* not standardised



Ø mm	L	a	b	⚖️	Code	No.	
32	265	19.0	49.0	0.358	6481750	308 32	
36	*	295	22.0	56.0	0.473	6481830	308 36
41	330	25.0	63.5	0.717	6481910	308 41	
46	365	27.0	70.5	0.925	6482050	308 46	

Ø mm	L	a	b	⚖️	Code	No.	
50	400	28.0	77.0	1.230	6482130	308 50	
55	442	29.5	83.5	1.626	6482210	308 55	
60	475	30.0	89.5	1.792	6482480	308 60	
65	*	510	32.0	97.0	2.208	6482560	308 65

## Crowfoot Spanners

### SPECIAL

- > Opening at right angle to shaft for maximum accessibility
- > GEDORE vanadium steel 31CrV3, chrome-plated



## 3114 / DS 3114 CROWFOOT SPANNERS

> No. 3114 = Delivery without tommy bar

Ø mm	L	a	b	d <sub>1</sub>	d <sub>2</sub>	26 D	⚖ kg	Code	No.
13	160	5.5	28.0	8.5	13.8	8	0.095	6670050	3114 13
14	160	5.5	28.0	8.5	13.8	8	0.093	6670130	3114 14
16	200	6.0	33.0	10.5	16.8	10	0.160	6676920	3114 16
17	200	6.0	33.0	10.5	16.8	10	0.169	6670210	3114 17
18	200	7.0	37.0	12.5	19.6	12	0.216	6677060	3114 18
19	200	7.0	37.0	12.5	19.6	12	0.224	6670480	3114 19
21	200	8.0	42.0	12.5	19.6	12	0.272	6677140	3114 21

Ø mm	L	a	b	d <sub>1</sub>	d <sub>2</sub>	26 D	⚖ kg	Code	No.
22	200	8.0	42.0	12.5	19.6	12	0.265	6670560	3114 22
24	250	9.0	46.0	14.5	23.6	14	0.419	6670640	3114 24
27	250	10.0	52.0	14.5	23.6	14	0.519	6670720	3114 27
30	250	11.0	57.0	16.5	27.6	16	0.633	6670800	3114 30
32	250	11.8	61.0	16.5	27.6	16	0.712	6670990	3114 32
36	315	12.8	68.0	19.0	31.5	18	1.034	6671020	3114 36

> No. DS 3114 = Delivery with tommy bar 26 D

Ø mm	L	a	b	d <sub>1</sub>	d <sub>2</sub>	26 D	⚖ kg	Code	No.
13	160	5.5	28.0	8.5	13.8	8	0.168	6672180	DS 3114 13
14	160	5.5	28.0	8.5	13.8	8	0.168	6672260	DS 3114 14
16	200	6.0	33.0	10.5	16.8	10	0.280	6677220	DS 3114 16
17	200	6.0	33.0	10.5	16.8	10	0.286	6672340	DS 3114 17
18	200	7.0	37.0	12.5	19.6	12	0.436	6677300	DS 3114 18
19	200	7.0	37.0	12.5	19.6	12	0.440	6672420	DS 3114 19
21	200	8.0	42.0	12.5	19.6	12	0.482	6677490	DS 3114 21
22	200	8.0	42.0	12.5	19.6	12	0.486	6672500	DS 3114 22

Ø mm	L	a	b	d <sub>1</sub>	d <sub>2</sub>	26 D	⚖ kg	Code	No.
24	250	9.0	46.0	14.5	23.6	14	0.798	6672690	DS 3114 24
27	250	10.0	52.0	14.5	23.6	14	0.902	6672770	DS 3114 27
30	250	11.0	57.0	16.5	27.6	16	1.256	6672850	DS 3114 30
32	250	11.8	61.0	16.5	27.6	16	1.324	6672930	DS 3114 32
36	315	12.8	68.0	19.0	31.5	18	2.016	6673070	DS 3114 36

## 26 D TOMMY BAR

- > Acc. to DIN 900 Form A
- > GEDORE vanadium steel 31CrV3, chrome-plated up to Ø 20 mm



Ø	↳ mm ↲	⚖ kg	Code	No.
6	157	0.040	6208580	26 D 6
8	177	0.073	6208740	26 D 8
10	197	0.127	6208820	26 D 10
12	246	0.228	6208900	26 D 12

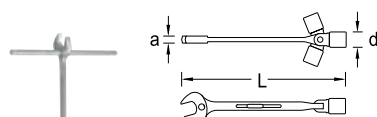
Ø	↳ mm ↲	⚖ kg	Code	No.
14	316	0.386	6209040	26 D 14
16	396	0.634	6209120	26 D 16
18	495	0.995	6209200	26 D 18
20	625	1.555	6209390	26 D 20



## Swivel Head Wrenches

534  
COMBINATION SWIVEL HEAD  
WRENCH

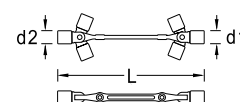
- > Slim pattern, with free moving socket wrench
- > With hole for tommy bars 26 D and 26 RS (please order separately)
- > GEDORE vanadium steel 31CrV3, heads polished, chrome-plated



mm	L	a	d	26 D	26 RS	kg	Code	No.
10	179	4.7	15.5	-	1	0.071	6512060	534 10
11	189	5.0	16.7	-	1	0.087	6512140	534 11
12	198	5.3	18.0	-	1	0.115	6512220	534 12
13	208	6.0	19.2	-	1	0.140	6512300	534 13
14	218	6.3	20.5	6	1	0.151	6512490	534 14
15	231	6.7	21.7	6	1	0.169	6512570	534 15
16	244	7.0	22.9	6	1	0.222	6512650	534 16
17	255	7.5	24.2	8	2	0.237	6512730	534 17
18	269	7.7	25.5	8	2	0.273	6513030	534 18
19	283	8.0	26.7	8	2	0.304	6512810	534 19

34  
SWIVEL HEAD WRENCH  
DOUBLE ENDED

- > Thin walled heads, UD profile
- > Swivels through a wide radius
- > Shaft with holes for tommy bars 26 D and 26 RS (please order separately)
- > GEDORE vanadium steel 31CrV3, heads polished, chrome-plated

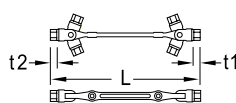


mm	L	d <sub>1</sub>	d <sub>2</sub>	26 D	26 RS	kg	Code	No.
6 x 7	190	10.2	11.5	6	1	0.089	6301520	34 6x7
8 x 9	200	13.0	14.2	6	1	0.098	6299010	34 8x9
10 x 11	205	15.5	16.7	6	1	0.110	6299280	34 10x11
12 x 13	240	18.0	19.2	8	2	0.204	6299360	34 12x13
13 x 17	275	19.2	24.2	10	2	0.318	6299600	34 13x17
14 x 15	245	20.5	21.7	8	2	0.216	6299520	34 14x15
16 x 17	280	22.9	24.2	10	2	0.334	6299870	34 16x17
17 x 19	315	24.2	26.7	12	3	0.411	6299950	34 17x19
18 x 19	315	25.5	26.7	12	3	0.418	6300040	34 18x19
20 x 22	350	28.0	30.5	12	3	0.604	6300120	34 20x22
21 x 23	350	29.2	31.7	12	3	0.633	6300200	34 21x23
24 x 27	410	33.0	36.7	14	3	0.913	6300390	34 24x27
30 x 32	470	40.5	43.0	14	3	1.361	6300470	34 30x32

IN 34  
SWIVEL HEAD WRENCH  
DOUBLE ENDED

for in-hex screws

- > Shaft with holes for tommy bars 26 D and 26 RS (please order separately)
- > Swivel through a wide radius
- > Sockets in GEDORE chrome-molybdenum steel 42CrMo4, phosphated, shaft chrome-plated



mm	L	t <sub>1</sub>	t <sub>2</sub>	26 D	26 RS	kg	Code	No.
3 x 4	198	4.0	5	6	1	0.101	6302250	IN 34 3x4
5 x 6	202	5.0	6	6	1	0.107	6302330	IN 34 5x6
8 x 10	235	8.0	10	8	2	0.199	6302410	IN 34 8x10
12 x 14	270	10.0	12	10	2	0.336	6302680	IN 34 12x14
17 x 19	295	14.0	16	12	3	0.411	6302760	IN 34 17x19

1500 ES-534

&gt;99



1500 CT1-534

&gt;107

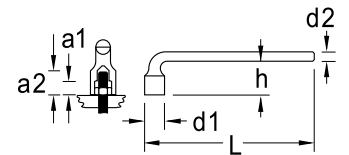
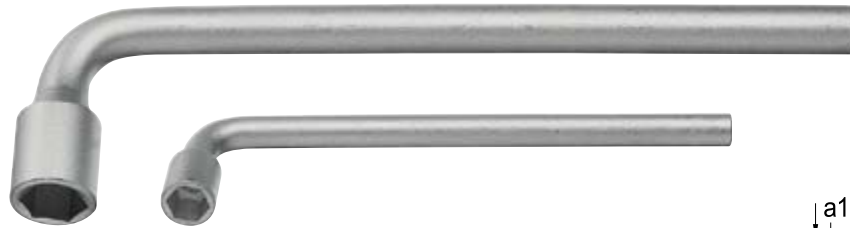


## Socket Wrenches

### 25 SOCKET WRENCHES

offset

- > Solid pattern with extra deep socket for protruding bolts
- > GEDORE vanadium steel 31CrV3, chrome-plated
- > With dome for pointed screw heads

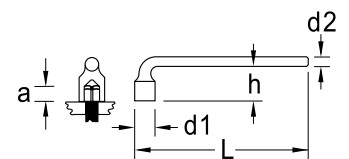


Ø mm	L	a <sub>1</sub>	a <sub>2</sub>	d <sub>1</sub>	d <sub>2</sub>	h	kg	Code	No.
10	160	9.6	16.5	15,0	10	32	0.120	6188290	25 10
13	200	12.7	23.0	19,0	12	41	0.220	6188530	25 13
17	250	12.0	26.0	25,0	14	49	0.373	6188880	25 17
19	280	15.4	29.0	27,5	16	56	0.539	6188960	25 19
22	315	16.4	32.5	32,0	18	64	0.797	6189180	25 22
24	345	19.5	37.1	34,5	20	71	1.055	6189260	25 24
27	380	21.4	37.5	38,5	20	74	1.179	6189340	25 27
30	420	22.3	41.3	42,0	22	84	1.536	6189420	25 30
36	500	27.3	47.1	50,0	26	97	2.523	6189690	25 36

### 25 V SOCKET WRENCHES

offset

- > Solid pattern with extra deep socket for protruding bolts
- > GEDORE vanadium steel 31CrV3, chrome-plated

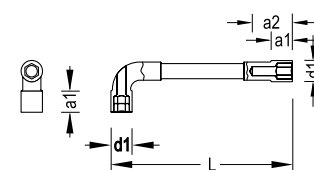


Ø mm	L	a	d <sub>1</sub>	d <sub>2</sub>	h	kg	Code	No.
8	150	11.0	15,0	10	32.0	0.116	6194770	25 V 8
9	160	11.0	16,5	10	35.0	0.126	6194850	25 V 9
10	175	12.0	19,0	12	37.5	0.203	6194930	25 V 10
12	215	14.5	22,0	14	44.0	0.335	6195150	25 V 12
13	230	20.5	23,5	14	47.0	0.357	6195230	25 V 13
14	240	21.5	25,0	14	49.0	0.378	6195310	25 V 14
17	280	26.5	30,0	18	62.0	0.718	6195580	25 V 17

## 25 PK DOUBLE ENDED SOCKET WRENCH

offset with hole

- > Solid pattern with two hexagon heads
- > Deep bores above the hexagon heads to take long studs
- > Through-hole on the angled side to take a tommy bar (e.g. 26 D, please order separately)
- > Chrome-plated



Ø mm	L	a <sub>1</sub>	a <sub>2</sub>	d <sub>1</sub>	26 D	⚖ kg	Code	No.
6	105	9	26.5	13,0		0.080	1616323	25 PK 6
7	107	9	26.5	14,0		0.081	1616331	25 PK 7
8	112	10	26.5	14,0		0.091	1616358	25 PK 8
9	120	10	26.5	14,0		0.099	1436805	25 PK 9
10	130	10	23.0	15,5	6	0.116	1436813	25 PK 10
11	136	10	23.0	16,5	6	0.122	1436821	25 PK 11
12	145	10	37.0	18,5	6	0.166	1436848	25 PK 12
13	152	11	35.0	20,0	8	0.192	1436856	25 PK 13
14	160	12	38.0	21,0	8	0.216	1436864	25 PK 14
15	170	13	38.0	22,5	8	0.239	1616366	25 PK 15
16	178	15	34.0	24,0	8	0.275	1436872	25 PK 16

Ø mm	L	a <sub>1</sub>	a <sub>2</sub>	d <sub>1</sub>	26 D	⚖ kg	Code	No.
17	187	15	35.0	25,5	8	0.305	1436899	25 PK 17
18	195	18	39.0	26,5	10	0.385	1436902	25 PK 18
19	205	17	38.0	28,0	12	0.440	1436910	25 PK 19
21	225	18	47.0	32,0	12	0.620	1436929	25 PK 21
22	225	18	47.0	32,0	12	0.632	1436937	25 PK 22
24	248	22	37.0	35,5	12	0.814	1436945	25 PK 24
27	280	26	60.0	38,0	16	1.088	1436953	25 PK 27
30	310	27	64.0	42,0	18	1.500	1436961	25 PK 30
32	330	30	63.0	45,0	20	1.475	1436988	25 PK 32
34	340	32	67.0	47,0	20	1.580	1436996	25 PK 34
36	355	33	74.0	50,0	20	2.052	1437003	25 PK 36

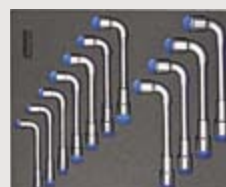
26 D

&gt;144



2005 CT2-25PK

&gt;114



## 25 PK-012 DOUBLE ENDED SOCKET WRENCH SET

12 pieces

- > Solid pattern with two hexagon heads
- > Deep bores above the hexagon heads to take long studs
- > Through-hole on the angled side to take a tommy bar
- > Chrome-plated



Contents

8 9 10 11 12 13 14 15 16 17 18 19

⚖ kg

2.578

Code

1527312

No.

25 PK-012

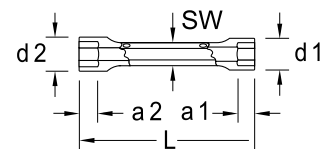
## Tubular box spanners

# 626 TUBULAR BOX SPANNER

heavy-duty pattern



- > Similar to DIN 896, Form A, ISO 2236, ISO 1085
- > With hexagon shaft and holes for turning, either with a spanner or a tommy bar (626 S / 26 RS-626 S, see table, please order separately)
- > Sizes 6x7 and 8x9 mm with no hole
- > GEDORE vanadium steel 31CrV3, chrome-plated



Ø mm	L	a <sub>1</sub>	a <sub>2</sub>	d <sub>1</sub>	d <sub>2</sub>	SW ● mm	26 RS-626 S	⚖ kg	Code	No.
<b>6 x 7</b>	105	6.0	7.0	9.5	10.5	8	626 S 1	0.037	6525120	626 6x7
<b>8 x 9</b>	110	7.0	8.0	12.0	13.0	9	626 S 1	0.052	6525200	626 8x9
<b>10 x 11</b>	120	9.0	9.5	14.5	16.0	11	626 S 1	0.072	6525390	626 10x11
<b>12 x 13</b>	140	10.5	11.0	17.0	18.5	13	626 S 1	0.117	6525470	626 12x13
<b>13 x 17</b>	155	11.0	14.0	18.5	23.0	15	626 S 2	0.160	6520750	626 13x17
<b>14 x 15</b>	145	11.5	13.0	19.5	21.0	14	626 S 1	0.145	6525710	626 14x15
<b>16 x 17</b>	155	13.0	14.0	22.0	23.0	16	626 S 2	0.189	6526280	626 16x17
<b>17 x 19</b>	165	14.0	17.5	23.0	26.0	18	626 S 2	0.233	6526360	626 17x19
<b>18 x 19</b>	165	15.0	17.5	24.5	26.0	18	626 S 2	0.242	6526440	626 18x19
<b>19 x 22</b>	175	17.5	18.5	26.0	30.0	19	626 S 2	0.288	6526520	626 19x22
<b>20 x 22</b>	175	17.5	18.5	27.5	30.0	19	626 S 2	0.306	6526600	626 20x22
<b>24 x 26</b>	195	21.5	23.5	32.5	34.5	24	26 RS-626 S-3	0.452	6526870	626 24x26
<b>24 x 27</b>	195	21.5	23.5	32.5	36.0	24	26 RS-626 S-3	0.493	6526950	626 24x27
<b>30 x 32</b>	210	25.0	29.0	39.5	42.5	30	26 RS-626 S-3	0.725	6527170	626 30x32
<b>32 x 36</b>	225	29.0	30.5	42.5	48.0	32	26 RS-626 S-3	0.898	6527250	626 32x36

# 626 S STEPPED TOMMY BAR



626 S 1

- > GEDORE vanadium steel 31CrV3, chrome-plated, tempered

Ø <sub>1</sub>	Ø <sub>2</sub>	Ø <sub>3</sub>	Ø <sub>4</sub>	Ø <sub>5</sub>	l mm	⚖ kg	Code	No.
<b>3,7</b>	4,7	5.2	7.0		190	0.050	6528060	626 S 1
<b>6,7</b>	7,7	8.7	9.7	11.0	240	0.159	6528140	626 S 2
<b>11,7</b>	13,7	16.0			310	0.492	6528220	26 RS-626 S-3

# KD 626 TUBULAR BOX SPANNER SET

with tommy bars

- > Similar to DIN 896, Form A, ISO 2236, ISO 1085
- > With hexagon shaft and holes for turning, either with a spanner or a tommy bar (626 S / 26 RS-626 S)
- > Sizes 6x7 and 8x9 mm with no hole
- > GEDORE vanadium steel 31CrV3, chrome-plated

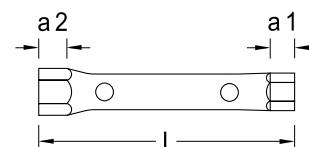


pieces	Contents	⚖ kg	Code	No.
<b>8</b>	626 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 626 S 1 2	1.434	6528730	KD 626-8
<b>10</b>	626 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 24x27 30x32 626 S 1 2 26 RS-626 S-3	3.080	2803550	KD 626-10

## 26 R TUBULAR BOX SPANNER

- > Acc. to DIN 896 Form B, ISO 2236, ISO 1085
- > Hollow shaft, in tubular steel, DIN 2391 seamless, hardened, made from material C35, chrome-plated

- > With hole for tommy bars 26 D and 26 RS (please order separately)
- \* not standardised



Ø mm	L	a <sub>1</sub>	a <sub>2</sub>	26 D	26 RS		Code	No.
<b>5,5 x 7</b> *	105	5.0	6.0	6	1	0.036	6222810	26 R 5,5x7
<b>6 x 7</b>	105	5.0	6.0	6	1	0.035	6210050	26 R 6x7
<b>8 x 9</b>	105	6.0	7.0	6	1	0.041	6210210	26 R 8x9
<b>8 x 10</b>	120	6.0	7.5	6	1	0.049	6210480	26 R 8x10
<b>9 x 10</b> *	120	7.0	7.5	6	1	0.050	6210560	26 R 9x10
<b>10 x 11</b>	120	7.5	8.0	6	1	0.055	6210640	26 R 10x11
<b>10 x 13</b>	140	7.5	9.5	8	2	0.072	6210720	26 R 10x13
<b>11 x 13</b>	140	8.0	9.5	8	2	0.074	6210800	26 R 11x13
<b>12 x 13</b>	140	9.0	9.5	8	2	0.073	6210990	26 R 12x13
<b>12 x 14</b>	140	9.0	10.0	8	2	0.083	6211020	26 R 12x14
<b>13 x 14</b> *	140	9.5	10.0	8	2	0.083	6211100	26 R 13x14
<b>13 x 15</b> *	140	9.5	11.0	8	2	0.089	6211290	26 R 13x15
<b>14 x 15</b>	140	10.0	11.0	8	2	0.088	6211370	26 R 14x15
<b>13 x 17</b>	150	9.5	12.0	10	2	0.139	6211450	26 R 13x17
<b>14 x 17</b>	150	10.0	12.0	10	2	0.140	6211530	26 R 14x17
<b>16 x 17</b>	150	11.0	12.0	10	2	0.139	6211610	26 R 16x17
<b>16 x 18</b>	150	11.0	13.0	10	2	0.152	6223030	26 R 16x18
<b>17 x 19</b>	155	12.0	15.0	12	3	0.161	6211880	26 R 17x19

Ø mm	L	a <sub>1</sub>	a <sub>2</sub>	26 D	26 RS		Code	No.
<b>18 x 19</b>	155	13.0	15.0	12	3	0.161	6211960	26 R 18x19
<b>19 x 22</b>	165	15.0	16.0	12	3	0.261	6212180	26 R 19x22
<b>20 x 22</b>	165	15.0	16.0	12	3	0.264	6212260	26 R 20x22
<b>21 x 23</b>	165	15.0	17.0	14	3	0.291	6212340	26 R 21x23
<b>22 x 24</b>	180	16.0	19.0	14	3	0.291	6212420	26 R 22x24
<b>24 x 26</b>	180	19.0	21.0	14	3	0.314	6212500	26 R 24x26
<b>24 x 27</b>	180	19.0	21.0	14	3	0.319	6212690	26 R 24x27
<b>25 x 28</b>	195	19.0	21.0	16	3	0.365	6212770	26 R 25x28
<b>27 x 30</b>	195	21.0	22.0	16	3	0.386	6212850	26 R 27x30
<b>27 x 32</b>	195	21.0	26.0	16	3	0.415	6212930	26 R 27x32
<b>30 x 32</b>	195	22.0	26.0	16	3	0.409	6213070	26 R 30x32
<b>30 x 36</b>	215	22.0	27.0	18	-	0.528	6213150	26 R 30x36
<b>32 x 36</b>	215	26.0	27.0	18	-	0.535	6213230	26 R 32x36
<b>36 x 41</b>	215	27.0	30.0	18	-	0.678	6213310	26 R 36x41
<b>41 x 46</b>	235	30.0	33.0	20	-	0.823	6213580	26 R 41x46
<b>46 x 50</b>	235	33.0	35.0	20	-	0.869	6213660	26 R 46x50
<b>50 x 55</b>	235	35.0	38.0	20	-	1.126	6213740	26 R 50x55

## 26 RS STEPPED TOMMY BAR

- > GEDORE vanadium steel 31CrV3, chrome-plated, fully hardened



Ø <sub>1</sub>	Ø <sub>2</sub>	Ø <sub>3</sub>	l mm		Code	No.
<b>5,0</b>	6,0		190	0.045	6219350	26 RS 1
<b>8,0</b>	10,0		240	0.149	6219430	26 RS 2
<b>11,7</b>	13,7	16,0	310	0.492	6528220	26 RS-626 5-3

## KD 26 R TUBULAR BOX SPANNER SET

with tommy bars

- > Hollow shaft, in tubular steel, DIN 2391 seamless, hardened, made from material C35, chrome-plated

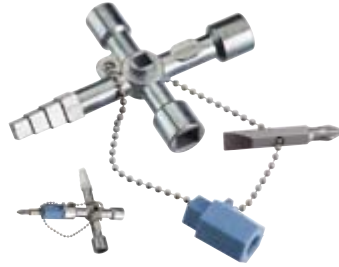


pieces	Contents		Code	No.
<b>8</b>	26 R 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 26 RS 1 2 3	1.564	6218540	KD 26 R-8
<b>12</b>	26 R 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 25x28 30x32 26 RS 1 2 3	2.895	6218890	KD 26 R-120

## Multi fitting keys

### 45 P PROFI-KEY UNIVERSAL

- > Key for opening and closing of technical shut-off systems e.g. air-conditioning, revision systems
- > For the outdoor areas - locking of bins or waste containers, and street lamp lids etc.
- > With bit insert: slotted head 1.0 x 7 mm and cross-head PH 2 with adapter for 1/4" bits on securing chain
- > 5 mm square for radiator valves
- > Stepped key with 6, 7, 8, 9 mm square
- > Female square 5, 6, 7-8 mm
- > Female three-square 9 mm
- > Dimensions: 90 x 62 mm
- > Zinc die-casting



Measurements		Code	No.
90 x 62	0.080	2190117	45 P



### 45 S MULTI FITTING MASTER KEY UNIT

- > Key for opening and closing of master cabinets, switch panels, technical shut-off systems e.g. air-conditioning, revision systems
- > For the outdoor areas - locking of bins or waste containers, and street lamp lids etc.
- > Supplied with bit insert: slotted head 1.0 x 7 mm and cross-head PH 2 with adapter for 1/4" bits on securing chain
- > 5 mm square for radiator valves
- > Female square 5, 6, 7-8 mm
- > Female three-square 9 mm
- > Two-way-key 3-5 mm
- > Dimensions: 72 x 72 mm
- > Zinc die-casting



Measurements		Code	No.
72 x 72	0.080	2190125	45 S

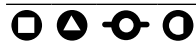


### 45 U MULTI FITTING KEY UNIVERSAL

- > For all usual technical shut-off systems
- > 1 tool for 9 applications
- > 8 different master cabinet shut-off systems and 5 mm square for radiator valves
- > Flat construction due to space-saving swivel mechanism
- > Square locking: 5, 6, 7-8, 9-10 mm
- > Three-edged locking: 7, 8-9, 10-11 mm
- > Two-way-key 3-5 mm and half-moon locking 6 mm
- > Securing chain with snap-hook
- > Dimensions: 95 x 95 mm
- > Zinc die-casting



Measurements		Code	No.
95 x 95	0.204	2294826	45 U

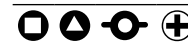


### 45 E MULTI FITTING KEY ELECTRO

- > For all usual electric master cabinets
- > Space-saving, double swivel mechanism
- > 5 mm square for radiator valves
- > Female square 5, 6, 7-8 mm
- > Female three-square 9 mm
- > Two-way-key 3 - 5 mm
- > Magnetic bit adaptor 1/4", supplied with one bit PH 2
- > Screwdriver function with retaining clip



Measurements		Code	No.
145	0.120	2294796	45 E



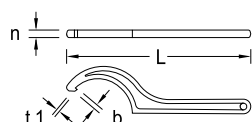
## Hook Spanners

### 40 HOOK WRENCH

with lug



- > Acc. to DIN 1810, Form A
- > For slotted round nuts according to DIN 981
- > GEDORE vanadium steel 31CrV3, manganese-phosphated

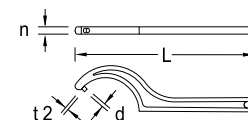


	L	b	n	t <sub>1</sub>		Code	No.
16-20	110	2.0	3.8	1.5	0.026	6333990	40 16-20
25-28	135	2.5	4.5	2.0	0.038	6334020	40 25-28
30-32	135	2.5	4.5	2.0	0.043	6334100	40 30-32
34-36	170	3.0	5.5	2.5	0.071	6334290	40 34-36
40-42	170	3.0	5.5	2.5	0.078	6334370	40 40-42
45-50	205	3.5	6.5	3.0	0.133	6334450	40 45-50
52-55	205	3.5	6.5	3.0	0.130	6334530	40 52-55
58-62	240	4.0	7.5	3.5	0.196	6334610	40 58-62
68-75	240	4.0	7.5	3.5	0.208	6334880	40 68-75
80-90	280	5.0	8.5	4.0	0.282	6334960	40 80-90
95-100	280	5.0	8.5	4.0	0.275	6335180	40 95-100
110-115	335	5.0	10.3	4.0	0.491	6335260	40 110-115
120-130	335	5.0	10.3	4.0	0.493	6335340	40 120-130
135-145	385	6.0	12.3	5.0	0.841	6335420	40 135-145
155-165	385	6.0	12.3	5.0	0.820	6335500	40 155-165
180-195	465	6.0	14.3	5.0	1.445	6335690	40 180-195
205-220	465	6.0	14.3	5.0	1.448	6335770	40 205-220

## 40 Z HOOK WRENCH

with pin

- > Acc. to DIN 1810, Form B
- > For cross-drilled nuts according to DIN 1816
- > GEDORE vanadium steel 31CrV3, manganese-phosphated



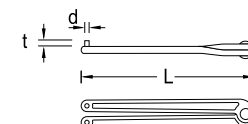
∅ mm	L	d	n	t <sub>2</sub>	⚖ kg	Code	No.
16-18	110	2.5	3.8	2.5	0.014	6335850	40 Z 16-18
20-22	110	2.5	3.8	2.5	0.014	6335930	40 Z 20-22
25-28	135	3.0	4.5	3.0	0.039	6336580	40 Z 25-28
30-32	135	4.0	4.5	3.0	0.045	6336660	40 Z 30-32
34-36	170	4.0	5.5	3.5	0.080	6336740	40 Z 34-36
40-42	170	4.0	5.5	3.5	0.079	6336820	40 Z 40-42
45-50	205	5.0	6.5	4.0	0.136	6336900	40 Z 45-50
52-55	205	5.0	6.5	4.0	0.129	6337040	40 Z 52-55
58-62	240	5.0	7.5	5.0	0.198	6337120	40 Z 58-62
68-75	240	6.0	7.5	5.0	0.198	6337200	40 Z 68-75

∅ mm	L	d	n	t <sub>2</sub>	⚖ kg	Code	No.
80-90	280	6.0	8.5	6.0	0.281	6337390	40 Z 80-90
95-100	280	8.0	8.5	6.0	0.276	6337470	40 Z 95-100
110-115	335	8.0	10.3	8.0	0.494	6337550	40 Z 110-115
120-130	335	8.0	10.3	8.0	0.492	6337630	40 Z 120-130
135-145	385	8.0	12.3	8.0	0.829	6337710	40 Z 135-145
155-165	385	8.0	12.3	8.0	0.841	6337980	40 Z 155-165
180-195	465	10.0	14.3	8.0	1.420	6338010	40 Z 180-195
205-220	465	10.0	14.3	8.0	1.402	6338280	40 Z 205-220

## 44 CALIPER FACE SPANNER

adjustable

- > Similar to DIN 3116
- > Special sizes on request
- > GEDORE vanadium steel 31CrV3, manganese-phosphated



∅ mm	L	L"	d	t	⚖ kg	Code	No.
3	178	7	2.9	4	0.148	6354480	44 3
4	178	7	3.8	5	0.151	6354560	44 4
5	230	9	4.8	6	0.259	6354640	44 5

∅ mm	L	L"	d	t	⚖ kg	Code	No.
6	230	9	5.8	7	0.260	6354720	44 6
8	230	9	7.8	8	0.265	6354990	44 8

### Accessories

## 637 RETAINING CLIP FOR NUTS

- > With magnetic holder
- > Suitable for open ended and flat ring spanners size 10-19 mm
- > Delivery without tools and accessories



⚖ kg	Code	No.
0.006	1834150	637

## 639 COMBINATION HOLDING TOOL

- > Small helper to hold nuts and washers in barely accessible places
- > For thread sizes from M3 to M8
- > Delivery without tools and accessories



L	W	H	⚖ kg	Code	No.
110	19.2	9.7	0.016	1640852	639





# SOCKETS AND ACCESSORIES

**6,3 (1/4")**  
SQUARE DRIVE  
>160



**10 (3/8")**  
SQUARE DRIVE  
>176



**12,5 (1/2")**  
SQUARE DRIVE  
>192



**20 (3/4")**  
SQUARE DRIVE  
>219



**25 (1")**  
SQUARE DRIVE  
>226



**FRICTION TYPE RATCHETS**  
>230



**IMPACT TOOLS**  
>233



**BIT RANGE**  
>251

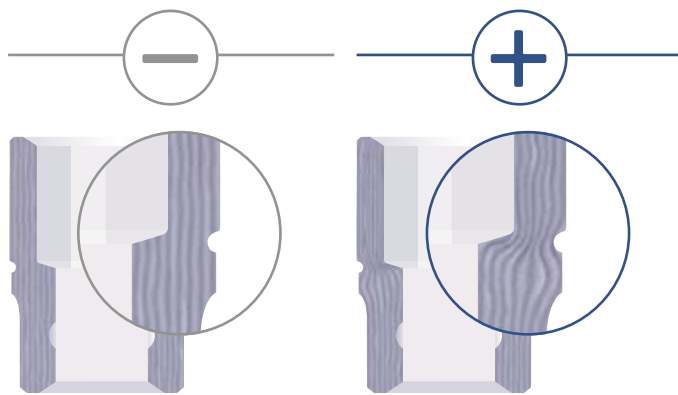


# POWERFUL RATCHETS AND STURDY SOCKETS

Powerful, reliable, durable

A huge variety of types

- › Intelligently designed **ratchets** meet every demand placed and more besides.
- › Sturdy, fine-toothed, durable and extremely resilient
- › Top-grade industrial quality for the hardest of continuous uses
- › Unrivalled diversity of hot-forged **sockets**, metric, inch, TORX®, multi-tooth, internal hexagon or slot and cruciform
- › Screw head protecting profiles (UD bi-hexagonal and hexagonal)



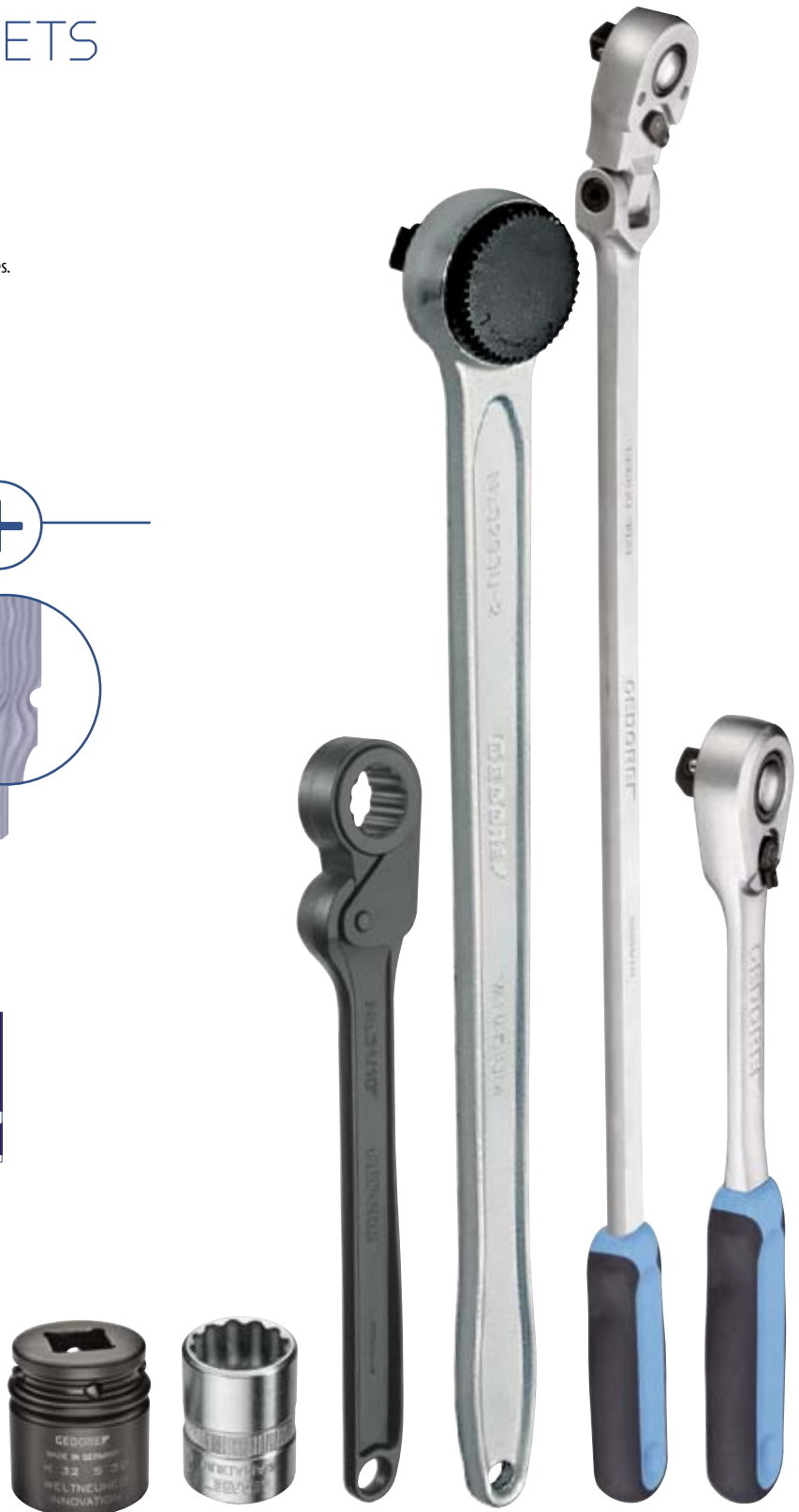
**cold forged**  
Fibers are bent and thus not as stable

**hot forged**  
Fibers are not interrupted



Quality from A - Z...

- › Use of the best-possible raw materials, most up-to-date machinery and environmentally-friendly production processes
- › Our tool specialists vouch for exactness in processing and continuous refinements
- › Unique manufacturing processes and special tool treatment bring about the best in results
- › Stringent quality checks after each production step ensure a constantly high level





### Maximum quality socket sets

- > Innovative, functional design
- > Are blue-hammer finished and from GEDORE
- > Maximum resilience of the sockets and robustness of the drive parts have turned "GEDORE sockets sets" into a household name internationally
- > A name known on the tool market for many years now
- > The sturdy and secure way to keep and carry your tools



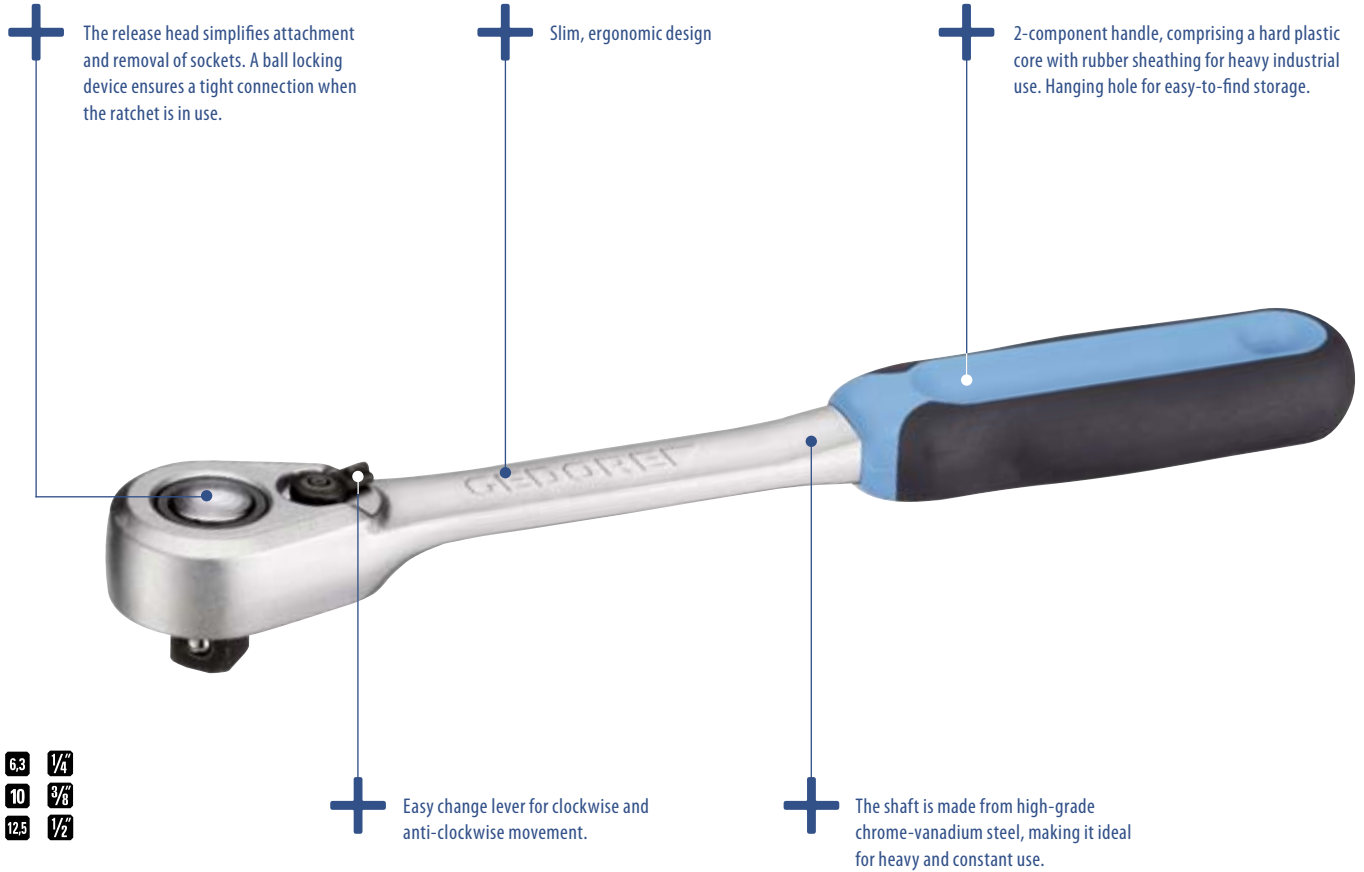
### From precision mechanics to heavy industry

- > GEDORE operating tools and accessories for professional tool use in each and every industry
- > For heavy continuous use and safety in everyday work
- > Available individually or in practical set compilations, in the module or in sets
- > Customised manufacturing on request



# U-20 RATCHETS

## DESIGN-ORIENTED PREMIUM RATCHETS




























































- 6.3 1/4
- 10 3/8
- 12.5 1/2

## MANUFACTURING PROCESS

Front

Rear



Type of ratchet/Drive	6.3 1/4"	10 3/8"	12.5 1/2"		20 3/4"	25 1"
<b>Reversible ratchets</b>				<b>Reversible ratchets (X)XL</b>		
 <b>Reversible ratchet for short sockets</b>			1993 U-20 SK 			
 <b>Reversible ratchet with push-button release and lever change</b>	2093 U-20 	3093 U-20 	1993 U-20 			
 <b>Reversible ratchet offset with push-button release and lever change</b>			1993 U-20 G 			
 <b>Reversible ratchet with control lever with centre locking</b>	2093 U-10 	3093 U-10 			3293 U-10 	2193 U-10  <b>Reversible ratchet with control lever</b> 
 <b>Reversible ratchet with push-button release and lever change with centre locking</b>			1993 U-10 T 			
 <b>Reversible ratchet with push-button release and lever change with centre locking</b>			1993 U-10 L 			
 <b>Aluminium reversible ratchet with push-button release and lever change with centre locking</b>		3093 ALU-10 	1993 ALU-10 			
 <b>Reversible ratchet with metal disc change</b>	2093 U-3 	3093 U-3 	1993 U-3 		3293 U-3 	2193 U-3  <b>Reversible ratchet with metal disc change</b> 
					3293 U-2 	<b>Reversible ratchet with metal disc change</b> 
 <b>Swivel-head reversible ratchet with metal disc change</b>		3093 GU-3 	1993 GU-3 			
 <b>Swivel-head reversible ratchet with lever change and push-button release</b>			1993 GU-10XL 			
 <b>Ratchet handle with square coupler</b>	2093 Z-94 	3093 Z-94 	1993 Z-94 		3293 Z-94 	2193 Z-94 
<b>Exclusive GEDORE ratchets</b>						
 Friction-type ratchet			31 KR, 31 KVR 29, 31 K 41V-418V			
 Hand ratchet	2093 HR-94 					
 T-handle ratchet	2093 U-3T 	3093 U-3T 				
 Plastic ratchet			1993 U-10K 			



# MANUFACTURING PROCESS FOR SOCKETS



**1**  
Blank cropped to size from 31CrV3



**2**  
Hot forged in the forging press.



**3**  
Accurately cropped to size.



**4**  
Outside diameter turned and knurled. For this step and the next, GEDORE uses high-tech machinery from its in-house mechanical engineering department.



**5**  
Counterbored, square socket drive is fluted (ball-stop flute), manufacturer and socket size are permanently stamped.



**6**  
Degreased, since grease would destroy the protective gas atmosphere in hardening.



**7**  
Hardened under protective gas atmosphere, followed by annealing.



**8**  
Sand blasted in preparation for surface coating.



**9**  
Nickel-plated and matt-chrome-plated to prevent dazzle. The electrolytically applied nickel coating ensures corrosion protection. The electroplated chrome improves the look and gives the socket a perfect finish.

## Pro GEDORE

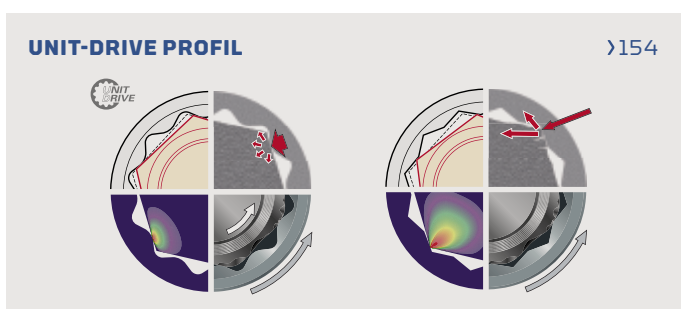
- > Use of high alloy 31CrV3 steel
- > Heat formed sockets which have a wear resistant, fine-grained structure and have a long service life
- > Narrow production tolerances ensure an ideal load transmission and low wear and guarantee a long service life
- > Distinctive ball catch ensure secure fit on the square drive
- > Good grip due to deep knurling even when held with oily hands or when working with protective gloves
- > Good look due to chrome plating and varnishing
- > Broad range in all sizes, drive and drive-side and for a wide range of screw types. One of the most diverse ranges in the market.

(\*) Not applicable to 1/4" hexagonal sockets

Like all hot-forged tools, GEDORE sockets (\*) are characterised by their homogeneous structure. The fibres run in parallel with the contour of the tool. The uninterrupted fibre orientation prevents residual stresses in the structure. In cold-forged tools, the fibres or lines of stress may deviate. Fibre orientation is equally important in nature.

For example, in a tree, the soft fibre orientation is parallel to the branch, so the wood is resistant to bending and twisting. If fibres become kinked, the branch loses its stability at the kink point and breaks. The low-stress GEDORE sockets withstand suddenly occurring peak forces better than cold formed sockets.

(\*) Not applicable to 1/4" hexagonal sockets



		Unit Drive hexagon	Unit Drive bi-hexagon	Unit Drive bi-hexagon	Unit Drive hexagon	Unit Drive bi-hexagon	External hexagon	External hexagon	Hexagon internal	Internal-TORX®	Internal TORX® with pilot	External TORX®	Internal serrations XZN	Slotted	Cross-slotted PH	Cruciform PZ	Internal TORX® with ball end	Internal hexagon with ball end	Hexagon internal							
		mm	mm	AF	AF	mm	mm	AF	mm										mm							
6,3	1/4	L	○	● 4-14	● 3/16-9/16	○	○	● 4-14	● 3/16-9/16	● 2-8	● T8-T40	○	● E4-E10	○	● 4-8	● 1-4	● 1-4	● T10-T40	● K4-K6	○						
		K	○	○	● 3/16-1/2	○	○	● 4-13	● 3/16-1/2	○	● 3-8	○	○	○	○	○	○	○	○	○	○					
10	3/8	L	● 6-24	● 6-24	● 1/4-1	● 1/4-7/8	○	○	○	○	● 4-10	● T20-T50	● T20-T40	● E4-E10	● 5-10	● 5,5-12	● 1-3	● 1-3	○	○	○	● 1/5-3/8				
		K	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○			
12,5	1/2	L	● 8-36	● 8-36	● 5/16-11/4	○	● 3/16-3/4W	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○			
		K	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		
20	3/4	L	● 10-34	● 10-34	● 1/2-15/16	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○			
		K	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		
25	1"	L-K	● 10-32	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		
		L-K	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
40	1 1/2	L	● 18-60	● 18-60	● 7/8-2	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		
		K	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
63	2 1/2	K-L	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
		S	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
63	2 1/2	S-L	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
		S-L	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
40	1 1/2	L	○	● 36-80	● 17/16-31/8	○	● 7/8-2W	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
		K	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
63	2 1/2	K-L	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
		S	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
63	2 1/2	S-L	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
		S-L	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
40	1 1/2	K	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
		K-L	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
63	2 1/2	K	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
		K	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○



## 6.3 (1/4") square drive

6.3 1/4 6.3 1/4

## Sets 6.3 (1/4") MM+INCH

6.3 1/4

# D 20 DMU-3 SOCKET SET 1/4"

14 pieces

- > With UD profile sockets and accessories made from GEDORE vanadium steel 31CrV3, hand-operated
- > With fine toothed, dial change ratchet
- > In plastic case
- > Dimensions 160 x 95 x 38 mm



6.3  
1/4  
mm

Ratchet	Sockets	Accessories		Code	No.
● U-3 <b>2093 U-3</b>	● D 20 4 4,5 5 5,5 6 7 8 9 10 11 12 13	<b>2090-4</b>	0.429	1815598	D 20 DMU-3

# INS 20 PM SCREWDRIVER BIT SOCKET SET 1/4"

15 pieces

- > With hand-operated screwdriver bit sockets in GEDORE vanadium special steel
- > In plastic case
- > Dimensions: 160 x 95 x 38 mm



6.3  
1/4

Sockets		Code	No.
● IN 20 3 4 5 6 8 ● IS 20 4 5,5 6,5 8 ● IKS 20 1 2 3 ● IKS 20 PZD 1 2 3	0.285	1815601	INS 20 PM



## ITX 20 TX-015

### SCREWDRIVER BIT SOCKET SET 1/4"


6.3

1/4"

15 pieces

- > With hand-operated screwdriver bit sockets in GEDORE vanadium special steel
- > In plastic case
- > Dimensions: 160 x 95 x 38 mm
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



Sockets		Code	No.
<ul style="list-style-type: none"> <li>⊕ ITX 20 T8 T9 T10 T15</li> <li>T20 T25 T27 T30 T40</li> <li>⊙ TX 20 E4 E5 E6 E7 E8 E10</li> </ul>	0.307	1815628	ITX 20TX-015

## ITX 20 PM

### SCREWDRIVER BIT SOCKET SET 1/4"


6.3

1/4"

9 pieces

- > With hand-operated screwdriver bit sockets in GEDORE vanadium special steel
- > In plastic case
- > Dimensions: 110 x 65 x 31 mm
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



Sockets		Code	No.
<ul style="list-style-type: none"> <li>⊕ ITX 20 T8 T9 T10 T15</li> <li>T20 T25 T27 T30 T40</li> </ul>	0.174	1815636	ITX 20 PM








# D 20 EMU-3 SOCKET SET 1/4"

17 pieces

- > With forged, tempered UD profile sockets, hand-operated
- > With accessories made from GEDORE vanadium steel 31CrV3
- > With fine toothed, dial change ratchet
- > In plastic case
- > Dimensions: 200 x 120 x 38 mm

6,3  
1/4"  
mm



Ratchet	Sockets	Accessories		Code	No.
 <b>2093 U-3</b>	 <b>D 20</b> 4, 5, 5, 5, 6, 7, 8, 9, 10, 11, 13	 <b>2087</b>  <b>2090-4</b>  <b>2095</b>  <b>676</b> 6,3	0.625	1815652	D 20 EMU-3













# D 20 KMU-20 SOCKET SET 1/4"

37 pieces

- > With forged, tempered UD profile sockets, hand-operated
- > With accessories made from GEDORE vanadium steel 31CrV3
- > With robust lever-change reversible ratchet with push-button release
- > In plastic case
- > Dimensions: 200 x 120 x 38 mm
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

6,3  
1/4"  
6,3  
1/4"  
mm



Ratchet	Sockets	Accessories		Code	No.
 <b>2093 U-20</b>	 <b>D 20</b> 4, 5, 6, 7, 8, 9, 10, 11, 12, 13  <b>680</b> 4, 5, 5, 6, 5  <b>685</b> 3, 4, 5, 6  <b>685 X</b> 5, 6, 8  <b>687</b> TX T10, T15, T20, T25, T27, T30, T40  <b>690</b> 1, 2  <b>690 PZD</b> 1, 2, 3	 <b>2090-4</b>  <b>620</b>  <b>676</b> <b>699</b>	0.712	1822373	D 20 KMU-20

# D 20 KAU-20 SOCKET SET 1/4"

37 pieces

- > With forged, tempered UD profile sockets, hand-operated
- > With accessories made from GEDORE vanadium steel 31CrV3
- > With robust lever-change reversible ratchet with push-button release
- > In plastic case
- > Dimensions: 200 x 120 x 38 mm
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



Ratchet	Sockets	Accessories	kg	Code	No.
U-20 <b>2093 U-20</b>	<b>D 20</b> 3/16 7/32 1/4 9/32 5/16 11/32 3/8 13/32 7/16 1/2" 680 4 5,5 6,5 685 1/8 5/32 3/16 1/4" 685 X 5 6 8 687 TX T10 T15 T20 T25 T27 T30 T40 690 1 2 690 PZD 1 2 3	2090-4 620 676 699	0.656	2010348	D 20 KAU-20

# D 20 TMU-10 SOCKET SET 1/4"

40 pieces

- > With forged, tempered UD profile sockets, hand-operated
- > With accessories made from GEDORE vanadium steel 31CrV3
- > With robust lever change reversible ratchet
- > In plastic case
- > Dimensions: 200 x 120 x 38 mm
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

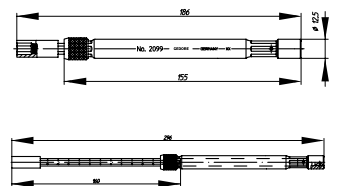


Ratchet	Sockets	Accessories	kg	Code	No.
U-10 <b>2093 U-10</b>	<b>D 20</b> 4 5 6 7 8 9 10 11 12 13 680 4 6,5 685 3 4 5 6 8 685 X 5 6 8 687 TX T10 T15 T20 T25 T27 T30 T40 690 1 2 690 PZD 1 2 3	620 639 673 6,3 676 699 2095 2090-4	0.767	1815660	D 20 TMU-10

# 20 XLU-3 T SOCKET SET 1/4"

37 pieces

- > With forged, tempered hexagon sockets, hand-operated, made from GEDORE vanadium steel 31CrV3
- > Screwdriver bits made from GEDORE vanadium special steel
- > With T-handle ratchet and telescopic extension no. 2099, adjustable from 186-296 mm
- > In plastic case
- > Dimensions: 200 x 120 x 38 mm
- > With "Check-Tool-System": 2-colour foam insert to check that the set is complete
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

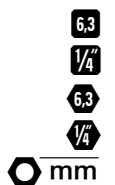


Ratchet	Sockets	Accessories	kg	Code	No.
<b>2093 U-3 T</b>	<ul style="list-style-type: none"> <li>○ 20 4 5 6 7 8 9 10 11 12 13</li> <li>⊖ 680 4 6,5</li> <li>● 685 3 4 5 6</li> <li>● 685 X 5 6 8</li> <li>⊕ 687 TX T8 T9 T10 T15 T20 T25 T27 T30 T40</li> <li>⊕ 690 1 2</li> <li>⊕ 690 PZD 1 2 3</li> </ul>	<ul style="list-style-type: none"> <li>673 6,3</li> <li>2099</li> <li> 2095</li> </ul>	0.800	1888447	20 XLU-3 T

# D 20 MOT BASIC TOOL SET 1/4" FOR MOTORBIKES

30 pieces

- > Packed with a basic assortment of tools for emergencies on motorbikes
- > In plastic case
- > Dimensions: 160 x 95 x 38 mm



Ratchet	Sockets	Accessories	kg	Code	No.
<ul style="list-style-type: none"> <li>● U-3 <b>2093 U-3 T</b></li> </ul>	<ul style="list-style-type: none"> <li>● D 20 8 9 10 11 12 13 14</li> <li>● 685 3 4 5 6 8 10</li> <li>⊕ 687 TX T10 T15 T20 T25 T27 T30 T40</li> <li>⊕ 690 1 2 3</li> <li>⊖ 680 4 6,5</li> </ul>	<ul style="list-style-type: none"> <li> 2090 KR-4</li> <li> 2090-6</li> <li> 2095</li> <li> 620</li> </ul>	0.572	2190281	D 20 MOT

# D 20 MOT-A

## BASIC TOOL SET 1/4" FOR MOTORBIKES

30 pieces

- > Packed with a basic assortment of tools for emergencies on motorbikes
- > In plastic case
- > Dimensions: 160 x 95 x 38 mm



Ratchet	Sockets	Accessories		Code	No.
U-3 <b>2093 U-3 T</b>	<b>D 20</b> 1/4 5/16 3/8 13/32 7/16 1/2 9/16" <b>685</b> 1/8 5/32 3/16 1/4 5/16 3/8" <b>687 TX</b> T10 T15 T20 T25 T27 T30 T40 <b>690</b> 1 2 3 <b>680</b> 4 6,5	<b>2090 KR-4</b> <b>2090-6</b> <b>2095</b> <b>620</b>	0.572	2193159	D 20 MOT-A

# 20 LMU-10

## SOCKET SET 1/4"

49 pieces

- > With forged, tempered long hexagon and short UD profile sockets, hand-operated
- > Accessories in GEDORE vanadium steel 31CrV3
- > With robust lever change reversible ratchet
- > In plastic case
- > Dimensions: 275 x 150 x 42 mm
- > With GEDORE Check-Tool-System: 2-colour foam insert to check that the set is complete
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



Ratchet	Sockets	Accessories		Code	No.
U-10 <b>2093 U-10</b>	<b>D 20</b> 4 5 6 7 8 9 10 11 12 13 <b>20 L</b> 4 4,5 5 6 7 8 9 10 12 13 <b>680</b> 4 6,5 <b>685</b> 3 4 5 6 8 <b>685 X</b> 5 6 8 <b>687 TXT</b> T10 T15 T20 T25 T27 T30 T40 <b>690</b> 1 2 <b>690 PZD</b> 1 2 3	<b>620</b> <b>676</b> <b>699</b> <b>2090-2 -6</b> <b>2095</b>	1.262	1815687	20 LMU-10

# 20 EM

## SOCKET SET 1/4"

16 pieces

- > With forged, tempered hexagon sockets, hand-operated
- > With accessories made from GEDORE vanadium steel 31CrV3
- > Set U-10 with reversible lever change ratchet
- > Set U-3 with fine toothed, dial change ratchet
- > Set Z-94 with ratchet with square coupler
- > In plastic case
- > Dimensions: 200 x 120 x 38 mm

6,3  
1/4"  
mm



Ratchet	Sockets	Accessories	kg	Code	No.
<b>2093 Z-94</b>	<b>20</b> 4 4,5 5 5,5 6 7 8 9 10 11 13	<b>2087</b> <b>2090-4</b> <b>2095</b> <b>2098</b>	0.761	6172100	20 EMZ
<b>2093 U-3</b>	<b>20</b> 4 4,5 5 5,5 6 7 8 9 10 11 13	<b>2087</b> <b>2090-4</b> <b>2095</b> <b>2098</b>	0.776	6172290	20 EMU-3
<b>2093 U-10</b>	<b>20</b> 4 4,5 5 5,5 6 7 8 9 10 11 13	<b>2087</b> <b>2090-4</b> <b>2095</b> <b>2098</b>	0.790	6162220	20 EMU-10

# 20 EAU-3

## SOCKET SET 1/4"

14 pieces

- > With forged, tempered hexagon sockets, hand-operated
- > With accessories made from GEDORE vanadium steel 31CrV3
- > With extra fine toothed, dial change ratchet
- > In plastic case
- > Dimensions: 200 x 120 x 38 mm

6,3  
1/4"  
"AF



Ratchet	Sockets	Accessories	kg	Code	No.
<b>2093 U-3</b>	<b>20</b> 3/16 7/32 1/4 9/32 5/16 11/32 3/8 7/16 1/2"	<b>2087</b> <b>2090-4</b> <b>2095</b> <b>2098</b>	0.767	6172450	20 EAU-3

## 20 IMU-3 SOCKET SET 1/4"

32 pieces












- > With forged, tempered hexagon sockets, hand-operated
- > With accessories made from GEDORE vanadium steel 31CrV3
- > With fine toothed, dial change ratchet
- > In plastic case
- > Dimensions: 275 x 150 x 42 mm

6.3

1/4"

mm



Ratchet	Sockets	Accessories		Code	No.
 <b>2093 U-3</b>	 20 4 5 6 7 8 9 10 11 12 13 14  IS 20 4 5,5 6,5 8  IN 20 3 4 5 6 8  IKS 20 1 2 3  IKS 20 PZD 1 2 3	 <b>2087</b>  <b>2090-2 -6</b>  <b>2095</b>  <b>2098</b>	1.298	6174150	20 IMU-3

## 20 ITU-3 SOCKET SET 1/4"

36 pieces











- > With forged, tempered hexagon sockets, hand-operated
- > With accessories made from GEDORE vanadium steel 31CrV3
- > With fine toothed, dial change ratchet
- > In plastic case
- > Dimensions: 275 x 150 x 42 mm
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

6.3

1/4"

mm



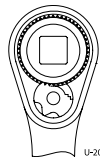
Ratchet	Sockets	Accessories		Code	No.
 <b>2093 U-3</b>	 20 4 5 6 7 8 9 10 11 12 13 14  IN 20 3 4 5 6 8  TX 20 E4 E5 E6 E7 E8 E10  ITX 20 T8 T9 T10 T15 T20 T25 T27 T30	 <b>2087</b>  <b>2090-2 -6</b>  <b>2095</b>  <b>2098</b>	1.376	6196710	20 ITU-3

## Ratchets 6.3 (1/4")

### 2093 U-20 REVERSIBLE RATCHET 1/4"

6.3  
1/4"

- > Used throughout industry and the automotive world - and as well in confined spaces
- > Acc. to DIN 3122, ISO 3315
- > Small, drop shaped head for confined areas
- > Fine-toothed, with lever change and push-button release
- > Return angle 9 degrees
- > Non-slip 2-component handle with hanging hole
- > For hand-operated sockets and accessories with square drive as per DIN 3120 - C 6.3, ISO 1174, ball locking device
- > GEDORE vanadium steel 31CrV3, chrome-plated



"	mm	°	mm	mm	kg	Code	No.
1/4	6.3	9	127	20	0.095	1703749	2093 U-20

### 2093 U-10 REVERSIBLE RATCHET 1/4"

6.3  
1/4"

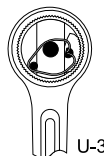
- > Particularly for the demanding use experienced in industry and with utility vehicles
- > Acc. to DIN 3122, ISO 3315
- > With recessed lever change, locks in middle position
- > Return angle 15 degrees
- > Non-slip 2-component handle with hanging hole
- > For hand-operated sockets and accessories with square drive as per DIN 3120 - C 6.3, ISO 1174, ball locking device
- > GEDORE vanadium steel 31CrV3, chrome-plated



"	mm	°	mm	mm	kg	Code	No.
1/4	6.3	15	129	21.5	0.109	6180470	2093 U-10

### 2093 U-3 REVERSIBLE RATCHET 1/4"

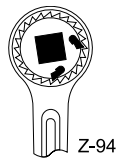
- > Especially for working in confined spaces, as in the automotive business
- > Acc. to DIN 3122, ISO 3315
- > With non-slip metal disc change, fine-toothed (72 teeth) and robust
- > Return angle 5 degrees
- > Non-slip 2-component handle with hanging hole
- > For hand-operated sockets and accessories with square drive as per DIN 3120 - C 6.3, ISO 1174, ball locking device
- > GEDORE vanadium steel 31CrV3, chrome-plated



"	mm	°	mm	mm	kg	Code	No.
1/4	6.3	5	129	25	0.095	6170590	2093 U-3

### 2093 Z-94 RATCHET HANDLE WITH COUPLER 1/4"

- > Used throughout industry and the automotive world
- > Acc. to DIN 3122, ISO 3315
- > With square coupler, medium-fine toothed, extremely rugged
- > Return angle 18 degrees
- > For hand-operated sockets and accessories with square drive as per DIN 3120 - C 6.3, ISO 1174 ball locking device
- > GEDORE vanadium steel 31CrV3, chrome-plated



"	mm	°	mm	mm	kg	Code	No.
1/4	6.3	18	129	12	0.076	6170750	2093 Z-94

### 2093 U-3 T RATCHET WITH T-HANDLE 1/4"

- > For progressing fast in confined spaces
- > Two-wing T-handle
- > Return angle 5 degrees
- > Ergonomic design for comfortable working
- > For hand-operated sockets and accessories with square drive as per DIN 3120 - C 6.3, ISO 1174, ball locking device
- > The danger of the tool canting, when carrying out work with extensions, is reduced by the central positioning of the square drive



"	mm	°	mm	kg	Code	No.
1/4	6.3	5	140	0.065	1791532	2093 U-3T

### 2093 HR-94 HAND RATCHET 1/4"

6.3  
1/4"

without handle

- > With square coupler
- > Return angle 18 degrees
- > Facilitates working quickly in confined spaces where other ratchets or tools do not fit
- > Especially suitable for servicing work in conjunction with extension 2090-12
- > Dimensions: Ø 26 x 20 mm



"	mm	°	kg	Code	No.
1/4	6.3	18	0.035	6069870	2093 HR-94

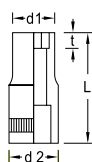


## Sockets 6.3 (1/4")

### 20 (MM) SOCKET 1/4"

hexagon

- > Acc. to DIN 3124, ISO 2725-1
- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated

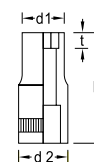


Ø mm	L	d <sub>1</sub>	d <sub>2</sub>	t		Code	No.
4.0	25	6.9	12.0	2.0	0.009	6165400	20 4
4.5	25	7.5	12.0	2.3	0.010	6165590	20 4,5
5.0	25	8.2	12.0	2.5	0.010	6165670	20 5
5.5	25	8.8	12.0	3.0	0.010	6165750	20 5,5
6.0	25	9.4	12.0	3.5	0.010	6165830	20 6
7.0	25	11.0	12.0	4.0	0.011	6165910	20 7
8.0	25	12.0	12.0	5.0	0.014	6166050	20 8
9.0	25	13.0	13.0	5.0	0.016	6166130	20 9
10.0	25	14.7	14.7	6.0	0.018	6166210	20 10
11.0	25	16.0	16.0	7.0	0.025	6166480	20 11
12.0	25	17.0	17.0	8.0	0.029	6166560	20 12
13.0	25	18.5	18.5	8.0	0.030	6166640	20 13
14.0	25	19.7	19.7	10.0	0.037	6166720	20 14

### 20 (AF) SOCKET 1/4"

hexagon

- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated

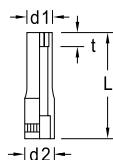


Ø AF	L	d <sub>1</sub>	d <sub>2</sub>	t		Code	No.
3/16	25	7.8	12.0	2.5	0.009	6167020	20 3/16AF
7/32	25	8.8	12.0	3.0	0.009	6167100	20 7/32AF
1/4	25	9.8	12.0	3.5	0.025	6167290	20 1/4AF
9/32	25	11.0	12.0	4.0	0.010	6167370	20 9/32AF
5/16	25	12.0	12.0	5.0	0.013	6167450	20 5/16AF
11/32	25	13.0	13.0	5.0	0.015	6167530	20 11/32AF
3/8	25	14.0	14.0	6.0	0.018	6167610	20 3/8AF
7/16	25	16.0	16.0	7.0	0.023	6167880	20 7/16AF
1/2	25	18.0	18.0	8.0	0.029	6167960	20 1/2AF
9/16	25	20.0	20.0	10.0	0.036	6161840	20 9/16AF

### 20 L (MM) SOCKET 1/4"

hexagon, long pattern

- > Acc. to DIN 3124, ISO 2725-1
- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated

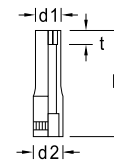


Ø mm	L	d <sub>1</sub>	d <sub>2</sub>	t		Code	No.
4.0	50	6.9	12.0	3.0	0.017	6191400	20 L 4
4.5	50	7.5	12.0	3.4	0.017	6191590	20 L 4,5
5.0	50	8.2	12.0	3.7	0.018	6191670	20 L 5
5.5	50	8.8	12.0	4.5	0.019	6191750	20 L 5,5
6.0	50	9.4	12.0	5.2	0.020	6191830	20 L 6
7.0	50	11.0	12.0	6.0	0.024	6191910	20 L 7
8.0	50	12.0	12.0	7.5	0.027	6192050	20 L 8
9.0	50	13.0	13.0	7.5	0.030	6192130	20 L 9
10.0	50	14.7	14.7	9.0	0.033	6192210	20 L 10
11.0	50	16.0	16.0	10.5	0.047	6192480	20 L 11
12.0	50	17.0	17.0	12.0	0.050	6192560	20 L 12
13.0	50	18.5	18.5	12.0	0.054	6192640	20 L 13

### 20 L (AF) SOCKET 1/4"

hexagon, long pattern

- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated

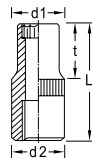
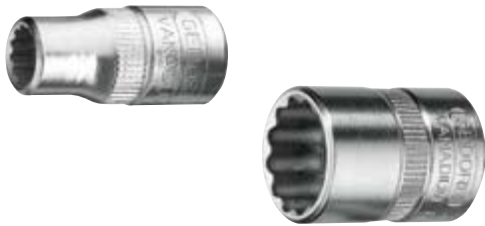


Ø AF	L	d <sub>1</sub>	d <sub>2</sub>	t		Code	No.
3/16	50	7.8	12.0	3.7	0.016	6192800	20 L 3/16AF
7/32	50	8.8	12.0	4.5	0.017	6192990	20 L 7/32AF
1/4	50	9.8	12.0	5.2	0.017	6193020	20 L 1/4AF
9/32	50	11.0	12.0	6.0	0.022	6193100	20 L 9/32AF
5/16	50	12.0	12.0	7.5	0.025	6193290	20 L 5/16AF
11/32	50	13.0	13.0	7.5	0.029	6193370	20 L 11/32AF
3/8	50	14.0	14.0	9.0	0.033	6193450	20 L 3/8AF
7/16	50	16.0	16.0	10.5	0.043	6193530	20 L 7/16AF
1/2	50	18.0	18.0	12.0	0.054	6193610	20 L 1/2AF

## D 20 (MM) SOCKET 1/4"

bi-hexagon UD profile

- > Acc. to DIN 3124, ISO 2725-1
- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated

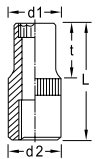
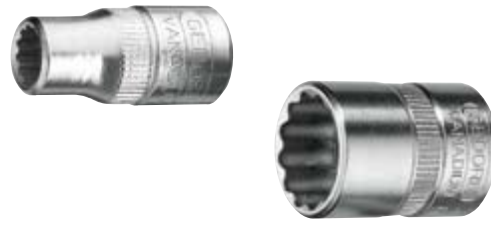


Ø mm	L	d <sub>1</sub>	d <sub>2</sub>	t		Code	No.
4.0	25	6.9	12.0	2.0	0.009	1649558	D 20 4
4.5	25	7.5	12.0	2.3	0.008	1649566	D 20 4,5
5.0	25	8.2	12.0	2.5	0.011	1649574	D 20 5
5.5	25	8.8	12.0	3.0	0.012	1802402	D 20 5,5
6.0	25	9.4	12.0	3.5	0.010	1649582	D 20 6
7.0	25	11.0	12.0	4.0	0.013	1649590	D 20 7
8.0	25	12.0	12.0	5.0	0.013	6225750	D 20 8
9.0	25	13.0	13.0	5.0	0.015	6225830	D 20 9
10.0	25	14.7	14.7	6.0	0.020	6226050	D 20 10
11.0	25	16.0	16.0	7.0	0.024	6226130	D 20 11
12.0	25	17.0	17.0	8.0	0.026	6226480	D 20 12
13.0	25	18.5	18.5	8.0	0.029	6226640	D 20 13
14.0	25	19.7	19.7	10.0	0.036	6226720	D 20 14

## D 20 (AF) SOCKET 1/4"

bi-hexagon UD profile

- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated



Ø "AF	L	d <sub>1</sub>	d <sub>2</sub>	t		Code	No.
3/16	25	7.8	12.0	2.5	0.010	1812505	D 20 3/16AF
7/32	25	8.8	12.0	3.0	0.011	1812513	D 20 7/32AF
1/4	25	9.8	12.0	3.5	0.011	1812521	D 20 1/4AF
9/32	25	11.0	12.0	4.0	0.012	1812548	D 20 9/32AF
5/16	25	12.0	12.0	5.0	0.012	6226800	D 20 5/16AF
11/32	25	13.0	13.0	5.0	0.015	6226990	D 20 11/32AF
3/8	25	14.0	14.0	6.0	0.017	6227020	D 20 3/8AF
13/32	25	15.0	15.0	6.0	0.020	1901702	D 20 13/32AF
7/16	25	16.0	16.0	7.0	0.022	6227370	D 20 7/16AF
1/2	25	18.0	18.0	8.0	0.028	6227450	D 20 1/2AF
9/16	25	20.0	20.0	10.0	0.034	6228180	D 20 9/16AF

## D 20 L SOCKET 1/4"

bi-hexagon UD profile, long pattern

- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated

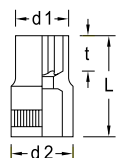


Ø "AF	L	d <sub>1</sub>	d <sub>2</sub>	t		Code	No.
3/16	50	7.8	12.0	3.7	0.017	1965433	D 20 L 3/16AF
7/32	50	8.8	12.0	4.5	0.019	1965476	D 20 L 7/32AF
1/4	50	9.8	12.0	5.2	0.017	1965417	D 20 L 1/4AF
9/32	50	11.0	12.0	6.0	0.043	1965484	D 20 L 9/32AF
5/16	50	12.0	12.0	7.5	0.024	1965441	D 20 L 5/16AF
11/32	50	13.0	13.0	7.5	0.043	1965492	D 20 L 11/32AF
3/8	50	14.0	14.0	9.0	0.035	1965425	D 20 L 3/8AF
7/16	50	16.0	16.0	10.5	0.043	1965468	D 20 L 7/16AF
1/2	50	18.0	18.0	12.0	0.054	1965409	D 20 L 1/2AF

## TX 20 SOCKET 1/4"

for protruding TORX® head screws

- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



Ø			mm	L	d <sub>1</sub>	d <sub>2</sub>	t		Code	No.
E4	M3	3,86	25	5.5	12	4.5	0.008	6193880	TX 20 E4	
E5	M4	4,73	25	7.0	12	5.0	0.009	6187640	TX 20 E5	
E6	M5	5,74	25	8.0	12	5.0	0.010	6187720	TX 20 E6	
E7	M6	6,16	25	9.5	12	6.0	0.011	6187800	TX 20 E7	
E8	M6 - M7	7,52	25	10.5	12	6.5	0.014	6187990	TX 20 E8	
E10	M8	9,42	25	13.0	13	7.0	0.018	6193960	TX 20 E10	

# ITX 20

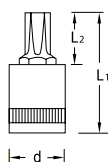
## SCREWDRIVER BIT SOCKET

### 1/4"

6.3  
1/4"

for recessed TORX® head screws

- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > Chrome-plated
- > With pressed-in pin in GEDORE vanadium special steel, gun-metal finish
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



⊕	M	mm	L <sub>1</sub>	L <sub>2</sub>	d	kg	Code	No.
T8	M2,5	2,31	30.5	14.5	12	0.013	6190430	ITX 20 T8
T9	M3	2,50	30.5	14.5	12	0.013	6190510	ITX 20 T9
T10	M3 - M3,5	2,74	30.5	14.5	12	0.014	6190780	ITX 20 T10
T15	M3,5 - M4	3,27	30.5	14.5	12	0.014	6190860	ITX 20 T15
T20	M4 - M5	3,86	30.5	14.5	12	0.014	6190940	ITX 20 T20
T25	M4,5 - M5	4,43	30.5	14.5	12	0.014	6191080	ITX 20 T25
T27	M4,5 - M6	4,99	30.5	14.5	12	0.014	6191160	ITX 20 T27
T30	M6 - M7	5,52	30.5	14.5	12	0.015	6191240	ITX 20 T30
T40	M7 - M8	6,65	33.5	14.0	14	0.025	6265890	ITX 20 T40

# ITX 20 K

## SCREWDRIVER BIT SOCKET

### 1/4"

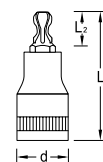
6.3  
1/4"

with ball end, for recessed TORX® head screws

- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > Chrome-plated
- > With pressed-in pin in GEDORE vanadium special steel, gun-metal finish
- > Swivel angle approx. 15-20°
- > Optimum transfer of power, also at places which are difficult of access
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



ITX 20 K T10



⊕	M	mm	L <sub>1</sub>	L <sub>2</sub>	d	kg	Code	No.
T10	M3 - M3,5	2,74	30.5	14.5	12	0.015	6120220	ITX 20 K T10
T15	M3,5 - M4	3,27	30.5	14.5	12	0.015	6120300	ITX 20 K T15
T20	M4 - M5	3,86	30.5	14.5	12	0.015	6120490	ITX 20 K T20
T25	M4,5 - M5	4,43	30.5	14.5	12	0.015	6120570	ITX 20 K T25
T27	M4,5 - M6	4,99	30.5	14.5	12	0.015	6120650	ITX 20 K T27
T30	M6 - M7	5,52	30.5	14.5	12	0.015	6120730	ITX 20 K T30
T40	M7 - M8	6,65	33.5	14.0	14	0.025	6120810	ITX 20 K T40

# IS 20

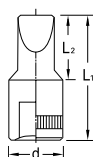
## SCREWDRIVER BIT SOCKET

### 1/4"

6.3  
1/4"

for slotted head screws

- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > Chrome-plated
- > Bit in GEDORE vanadium special steel, manganese-phosphated
- > Bit as per DIN ISO 2380-1 Form B



⊖ mm±0.05	mm±0.05	L <sub>1</sub>	L <sub>2</sub>	d	kg	Code	No.
4.0	0.8	28	14.5	12	0.011	6171560	IS 20 4x0,8
5.5	1.0	28	14.5	12	0.012	6171640	IS 20 5,5x1
6.5	1.2	28	14.5	12	0.012	6174230	IS 20 6,5x1,2
8.0	1.6	28	14.5	12	0.012	6174310	IS 20 8x1,6

# IKS 20

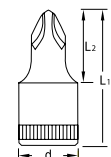
## SCREWDRIVER BIT SOCKET

### 1/4"

6.3  
1/4"

for cross-head screws PH

- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > Chrome-plated
- > Bit in GEDORE vanadium special steel, manganese-phosphated
- > Tip as per DIN ISO 8764-1 PH



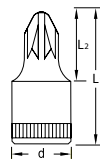
⊕ PH	L <sub>1</sub>	L <sub>2</sub>	d	kg	Code	No.
1	28	14.5	12	0.011	6174580	IKS 20 1
2	28	14.5	12	0.012	6174660	IKS 20 2
3	28	14.5	12	0.012	6174740	IKS 20 3
4	28	14.5	12	0.014	6174820	IKS 20 4

## IKS 20 PZD SCREWDRIVER BIT SOCKET 1/4"

6.3  
1/4"

for cross-head screws Pozi PZ

- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > Chrome-plated
- > Bit in GEDORE vanadium special steel, manganese-phosphated
- > Tip as per DIN ISO 8764-1 PZ



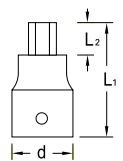
⊕ PZ	L <sub>1</sub>	L <sub>2</sub>	d	⚖	Code	No.
1	28	14.5	12	0.012	6187130	IKS 20 PZD 1
2	28	14.5	12	0.013	6187210	IKS 20 PZD 2
3	28	14.5	12	0.014	6187480	IKS 20 PZD 3
4	28	14.5	12	0.015	6187560	IKS 20 PZD 4

## IN 20 SCREWDRIVER BIT SOCKET 1/4"

6.3  
1/4"

for in-hex screws

- > Acc. to DIN 7422
- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > Chrome-plated
- > Bit in GEDORE vanadium special steel, manganese-phosphated
- \* not standardised



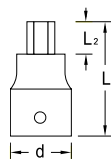
● mm	L <sub>1</sub>	L <sub>2</sub>	d	⚖	Code	No.
2	*	28	3.0	12	0.010	1812556 IN 20 2
2,5	*	28	3.5	12	0.010	1707736 IN 20 2,5
3		28	5.5	12	0.011	6176010 IN 20 3
4		28	7.0	12	0.011	6176280 IN 20 4
5		28	8.0	12	0.012	6176360 IN 20 5
6		28	8.5	12	0.013	6178490 IN 20 6
8	*	28	10.0	12	0.016	6178570 IN 20 8

## IN 20 L SCREWDRIVER BIT SOCKET 1/4"

6.3  
1/4"

for in-hex screws, long pattern

- > Acc. to DIN 7422
- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > Chrome-plated
- > Bit in GEDORE vanadium special steel, manganese-phosphated



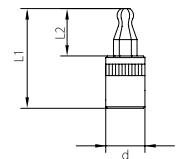
● mm	L <sub>1</sub>	L <sub>2</sub>	d	⚖	Code	No.
3	60	32	12	0.024	1933256	IN 20 L 3-60
4	60	32	12	0.025	1933264	IN 20 L 4-60
5	60	32	12	0.027	1933272	IN 20 L 5-60
6	60	32	12	0.029	1933280	IN 20 L 6-60
8	60	32	14	0.050	1933299	IN 20 L 8-60

## IN 20 K SCREWDRIVER BIT SOCKET 1/4"

6.3  
1/4"

with ball end, for in-hex screws

- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > Chrome-plated
- > With pressed-in pin, manganese-phosphated
- > Total swivel angle approx. 15-20°



● mm	L <sub>1</sub>	L <sub>2</sub>	d	⚖	Code	No.
4	30.5	14.5	12	0.010	2219409	IN 20 K 4
5	30.5	14.5	12	0.010	2219417	IN 20 K 5
6	30.5	14.5	12	0.013	2219468	IN 20 K 6

## Accessories 6.3 (1/4")

### 2097 SWIVEL HANDLE 1/4"

- > Acc. to DIN 3122, ISO 3315
- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated, square drive manganese-phosphated



1/4"	6.3	146	0.094	Code	No.
1/4	6.3	146	0.094	6171050	2097

### 2098 T DRIVING HANDLE 1/4"

- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- > With bit adaptor no. 620 also suitable for 1/4" bits
- > Easy access to deep-fitting screws in confined areas
- > The danger of the tool canting, is reduced by the central positioning of the square drive
- > 2C-T-handle with hanging hole



1/4"	6.3	300	0.150	Code	No.
1/4	6.3	300	0.150	1939998	2098 T

### 2098 DRIVING HANDLE 1/4"

- > Acc. to DIN 3122, ISO 3315
- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device



1/4"	6.3	140	0.070	Code	No.
1/4	6.3	140	0.070	6171480	2098

### 2087 SLIDING T BAR 1/4"

- > Acc. to DIN 3122, ISO 3315
- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated



1/4"	6.3	115	0.039	Code	No.
1/4	6.3	115	0.039	6170160	2087

### 2090 EXTENSION 1/4"

- > Acc. to DIN 3123, ISO 3316
- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated
- \* not standardised



2090-2



2090-4



2090-6



2090-12

1/4"	6.3	55	0.025	Code	No.
1/4	6.3	55	0.025	6170320	2090-2
1/4	6.3	97	0.041	6170400	2090-4

1/4"	6.3	148	0.061	Code	No.
1/4	6.3	148	0.061	6171210	2090-6
1/4	6.3	*	0.124	6173340	2090-12

## 2088 FLEXIBLE EXTENSION 1/4"

- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated



□"	■	↳ mm ▷	⚖ kg	Code	No.
1/4	6.3	120	0.046	6170240	2088

## 2090 A EXTENSION 1/4"

with release

- > Easy access to deep-fitting screws in confined areas
- > No unintentional release of the socket from the extension due to safety ring
- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, ball locking device



□"	■	↳ mm ▷	⚖ kg	Code	No.
1/4	6.3	55	0.030	1932284	2090 A-2
1/4	6.3	97	0.050	1932292	2090 A-4
1/4	6.3	305	0.125	1932306	2090 A-12

## 2090 KR UNIVERSAL EXTENSION 1/4"

- > With ball end
- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- > The extension is able to pivot up to 15°
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated



□"	■	↳ mm ▷	⚖ kg	Code	No.
1/4	6.3	55	0.024	1812564	2090 KR-2
1/4	6.3	97	0.045	1812572	2090 KR-4
1/4	6.3	148	0.060	6121030	2090 KR-6

## 2094 COUPLER 1/4"

- > Acc. to DIN 3122, ISO 3315
- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated



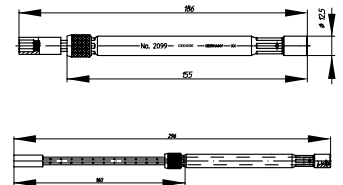
□"	■	↳ mm ▷	⚖ kg	Code	No.
1/4	6.3	19.8	0.006	6170830	2094

## 2099 TELESCOPIC EXTENSION 1/4"



magnetic

- > With 1/4" female square drive and 1/4" female hexagon drive
- > Automatic, form-fit connection
- > Adjustable in 10 mm steps from 192-296 mm
- > Suitable for 1/4" bits as well as with adaptor no. 673 for sockets up to 13 mm
- > Made of quality steel, manganese-phosphated resp. chrome-plated



□"	□	○"	○	↳ mm ▷	⚖ kg	Code	No.
1/4	6.3	1/4	6.3	192-296	0.205	1888455	2099

## 2095 UNIVERSAL JOINT 1/4"

- > Acc. to DIN 3123, ISO 3316
- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated



□"	■	□"	□	↳ mm ▷	⚖ kg	Code	No.
1/4	6.3	1/4	6.3	38	0.026	6170910	2095

## 2030 CONVERTOR 1/4" TO 3/8"

- > Acc. to DIN 3123, ISO 3316
- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated



□"	□	■"	■	↳ mm ▷	⚖ kg	Code	No.
1/4	6.3	3/8	10	26	0.020	6170080	2030

# S 2032-05

## ADAPTOR SET 1/4" - 3/4"

5 pieces

- > Set of reducers and converters 1/4" - 3/4"
- > Reducers 1930, 3020
- > Convertors 2030, 3019, 1932
- > In transparent plastic box, dimensions: L 134 x W 51 x H 51 mm, foam insert light-blue
- > Please take note of the maximum capacity of the external squares of the reducers acc. to DIN 3123, ISO 3316

- 6.3
- 1/4"
- 10
- 3/8"
- 12.5
- 1/2"
- 20
- 3/4"



Contents		Code	No.
<b>Convertor 2030</b> 1/4" - 3/8"	0.340	1729071	S 2032-05
<b>Convertor 3019</b> 3/8" - 1/2"			
<b>Convertor 1932</b> 1/2" - 3/4"			
<b>Reducer 3020</b> 3/8" - 1/4"			
<b>Reducer 1930</b> 1/2" - 3/8"			

# SL 2013

## TOOL HOLDING RAIL, MAGNETIC 1/4"

empty

- > External squares to take 13 standard commercial 6.3 mm (1/4") sockets
- > Two female square adaptors to take ratchets, sliding T bars, extensions etc.
- > A strong magnet securely holds the socket rail to ferrous metals
- > Additional holes are provided for wall mounting the socket rail or attaching to non-ferrous materials
- > The sockets are securely locked by the ball at the square-drive end by turning them 90°
- > It is a simple matter to "unlock" and remove the sockets, by turning them 90° in the opposing direction
- > Delivery without tools

- 6.3
- 1/4"
- 6.3
- 1/4"
- 



↳ mm ↲	mm		Code	No.
380	33	0.355	1761080	SL 2013

## 10 (3/8") square drive

10 3/8 10 3/8

## Sets 10 (3/8") METRIC

10 3/8

### 30 JMU / D 30 JMU SOCKET SET 3/8"

16 pieces

- > With forged, tempered hexagon (no. 30) or bi-hexagon (no. D 30) UD profile sockets, hand-operated
- > With accessories made from GEDORE vanadium steel 31CrV3
- > With reversible lever change ratchet
- > In GEDORE blue sheet steel case
- > Dimensions: 320 x 132 x 55 mm



10  
3/8  
mm

Ratchet	Sockets	Accessories	kg	Code	No.
U-10 <b>3093 U-10</b>	<b>30</b> 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<b>3090-5</b>	2.2	2682885	30 JMU-10
U-10 <b>3093 U-10</b>	<b>D 30</b> 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<b>3090-5</b>	2.3	2682893	D 30 JMU-10

### 30 HMU / D 30 HMU SOCKET SET 3/8"

22 pieces

- > With forged, tempered hexagon (no. 30) or bi-hexagon (no. D 30) UD profile sockets, hand-operated
- > With accessories made from GEDORE vanadium steel 31CrV3
- > Set U-3 with fine toothed, dial change ratchet
- > Set U-10 with reversible lever change ratchet
- > In GEDORE blue sheet steel case
- > Dimensions: 320 x 210 x 55 mm



10  
3/8  
mm

Ratchet	Sockets	Accessories	kg	Code	No.
U-3 <b>3093 U-3</b>	<b>30</b> 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<b>3087</b> <b>3090-5 -10</b> <b>3095</b>	3.0	6238300	30 HMU-3
U-10 <b>3093 U-10</b>	<b>30</b> 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<b>3087</b> <b>3090-5 -10</b> <b>3095</b>	3.0	6235470	30 HMU-10
U-3 <b>3093 U-3</b>	<b>D 30</b> 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<b>3087</b> <b>3090-5 -10</b> <b>3095</b>	3.1	6240470	D 30 HMU-3
U-10 <b>3093 U-10</b>	<b>D 30</b> 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<b>3087</b> <b>3090-5 -10</b> <b>3095</b>	3.1	6239700	D 30 HMU-10



# 30 GMU / D 30 GMU SOCKET SET 3/8"

17 pieces

- > With forged, tempered hexagon (no. 30) or bi-hexagon (no. D 30) UD profile sockets, hand-operated
- > With accessories made from GEDORE vanadium steel 31CrV3
- > Set U-3 with fine toothed, dial change ratchet
- > Set U-10 with reversible lever change ratchet
- > In GEDORE blue sheet steel case
- > Dimensions: 320 x 210 x 55 mm



10  
3/8  
mm

Ratchet	Sockets	Accessories	Weight	Code	No.
U-3 <b>3093 U-3</b>	30 6 7 8 9 10 11 13 14 15 16 17 19	3087 3090-5 -10 3095	2.6	6235980	30 GMU-3
U-10 <b>3093 U-10</b>	30 6 7 8 9 10 11 13 14 15 16 17 19	3087 3090-5 -10 3095	2.6	6235710	30 GMU-10
U-3 <b>3093 U-3</b>	D 30 6 7 8 9 10 11 13 14 15 16 17 19	3087 3090-5 -10 3095	2.7	6240200	D 30 GMU-3
U-10 <b>3093 U-10</b>	D 30 6 7 8 9 10 11 13 14 15 16 17 19	3087 3090-5 -10 3095	2.7	6239380	D 30 GMU-10

# 30 IMU SOCKET SET 3/8"

26 pieces

- > With forged, tempered hexagon UD profile sockets, hand-operated
- > With accessories made from GEDORE vanadium steel 31CrV3
- > Set U-3 with fine toothed, dial change ratchet
- > Set U-10 with reversible lever change ratchet
- > In GEDORE blue sheet steel case
- > Dimensions: 320 x 210 x 55 mm



10  
3/8  
mm

Ratchet	Sockets	Accessories	Weight	Code	No.
U-3 <b>3093 U-3</b>	30 6 7 8 9 10 11 12 13 14 15 16 17 19 IS 30 5,5 8 IN 30 4 5 6 8 IKS 30 2 3	3087 3090-5 -10 3095	3.1	6229900	30 IMU-3
U-10 <b>3093 U-10</b>	30 6 7 8 9 10 11 12 13 14 15 16 17 19 IS 30 5,5 8 IN 30 4 5 6 8 IKS 30 2 3	3087 3090-5 -10 3095	3.1	6229740	30 IMU-10

# D 30 KMU-20 SOCKET SET 3/8"

40 pieces

- > With forged, tempered bi-hexagon UD profile sockets, hand-operated
- > With accessories made from GEDORE vanadium steel 31CrV3
- > With robust lever-change reversible ratchet with push-button release
- > In GEDORE blue sheet steel case
- > Dimensions: 320 x 210 x 55 mm
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



10  
3/8"  
6.3  
1/4"

mm

Ratchet	Sockets	Accessories		Code	No.
<b>3093 U-20</b> <b>3093 U-3 T</b>	<b>D 30</b> 8 9 10 11 12 13 14 15 16 17 18 19 <b>680</b> 4 5,5 6,5 <b>685</b> 3 4 5 6 <b>685 X</b> 5 6 8 <b>687 TX</b> T10 T15 T20 T25 T27 T30 <b>690</b> 1 2 <b>690 PZ</b> 1 2	<b>3090 KR-3</b> <b>3090-5</b> <b>630</b> <b>673</b> 10 <b>676</b> <b>699</b>	2.6	1973347	D 30 KMU-20

# D 30 TX20 U-20 SOCKET SET 3/8" + 1/4"

50 pieces

- > Tool set for general industrial and automotive applications
- > 3/8" and 1/4" sockets for protruding and recessed TORX® screws
- > With robust lever-change reversible ratchets, with push-button release
- > In sheet steel case with Check-Tool insert
- > Dimensions: 320 x 210 x 55 mm
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



10  
3/8"  
6.3  
1/4"  
6.3  
1/4"

mm

Ratchet	Sockets	Accessories		Code	No.
<b>3093 U-20</b> <b>2093 U-20</b>	<b>D 30</b> 10 11 12 13 14 15 16 17 18 19 21 22 <b>TX 30</b> E11 E12 E14 <b>ITX 30</b> T45 T50 <b>D 20</b> 4 5 5,5 6 7 8 9 10 12 13 <b>TX 20</b> E5 E6 E7 E8 E10 <b>687 TX</b> T10 T15 T20 T25 T27 T30 T40	<b>3090 KR-3</b> <b>3090-5</b> <b>2090 KR-2</b> <b>2090-6</b> <b>620</b> <b>673</b> 6,3 10 <b>676</b> <b>699</b>	3.2	2075695	D 30 TX20 U-20

## IN 30 LKM SCREWDRIVER BIT SOCKET SET 3/8"

10  
3/8  
mm

10 pieces

- > For in-hex screws, short and long
- > In plastic case
- > Dimensions: 200 x 120 x 38 mm



Sockets	kg	Code	No.
● IN 30 4 5 6 8 10	0.761	1509918	IN 30 LKM
● IN 30 L 4 5 6 8 10			

## ITX 30 PM SCREWDRIVER BIT SOCKET SET 3/8"

10  
3/8

7 pieces

- > For recessed TORX® screws
- > In plastic case
- > Dimensions: 200 x 120 x 38 mm
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



Sockets	kg	Code	No.
● ITX 30 T20 T25 T27 T30 T40 T45 T50	0.627	1509926	ITX 30 PM

## ITX 30 LKP SCREWDRIVER BIT SOCKET SET 3/8"

10  
3/8

14 pieces

- > For recessed TORX® screws, short and long
- > In plastic case
- > Dimensions: 200 x 120 x 38 mm
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



Sockets	kg	Code	No.
● ITX 30 T20 T25 T27 T30 T40 T45 T50	1.081	1509950	ITX 30 LKP
● ITX 30 L T20 T25 T27 T30 T40 T45 T50			

## ITX 30 TX-015 SCREWDRIVER BIT SOCKET SET 3/8"

10  
3/8

15 pieces

- > For protruding and recessed TORX® screws
- > In plastic case
- > Dimensions: 200 x 120 x 38 mm
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



Sockets	kg	Code	No.
● ITX 30 T20 T25 T27 T30 T40 T45 T50	0.801	1509942	ITX 30 TX-015
● TX 30 E5 E6 E7 E8 E10 E11 E12 E14			

## TX 30 E-08 SOCKET SET 3/8"

10  
3/8

8 pieces

- > For protruding TORX® screws
- > In plastic case
- > Dimensions: 160 x 95 x 38 mm
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



Sockets	kg	Code	No.
● TX 30 E5 E6 E7 E8 E10 E11 E12 E14	0.485	1509934	TX 30 E-08

## 30 TX 20 SCREWDRIVER BIT SOCKET SET 3/8" + 1/4"

6.3  
1/4  
10  
3/8

28 pieces

- > 3/8" and 1/4" sockets for protruding and recessed TORX® screws
- > In plastic case
- > Dimensions: 275 x 150 x 42 mm
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



Sockets	kg	Code	No.
☒ ● ITX 30 T25 T27 T30 T40 T45 T50	1.484	1509969	30 TX 20
☒ ● ITX 30 L T20 T25 T27 T30 T40 T45 T50			
☒ ● TX 30 E8 E10 E11 E12 E14			
☒ ● ITX 20 T8 T9 T10 T15 T20			
☒ ● TX 20 E4 E5 E6 E7			
☒ ☒ 2030			

## Sets 10 (3/8") INCH





## D 30 JAU

### SOCKET SET 3/8"

12 pieces

- > With forged, tempered UD profile, hand-operated sockets
- > With accessories made from GEDORE vanadium steel 31CrV3
- > With reversible lever change ratchet
- > In GEDORE blue sheet steel case
- > Dimensions: 320 x 132 x 55 mm



Ratchet	Sockets	Accessories		Code	No.
 U-10 <b>3093 U-10</b>	 <b>D 30</b> 1/4 5/16 11/32 3/8 7/16 1/2 9/16 5/8 11/16 3/4"	 <b>3090-5</b>	2.0	2682907	D 30 JAU-10







## D 30 GAU

### SOCKET SET 3/8"

17 pieces

- > With forged, tempered UD profile, hand-operated sockets
- > With accessories made from GEDORE vanadium steel 31CrV3
- > With reversible lever change ratchet
- > In GEDORE blue sheet steel case
- > Dimensions: 320 x 210 x 55 mm

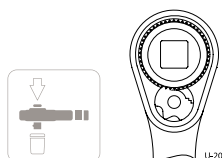


Ratchet	Sockets	Accessories		Code	No.
 U-10 <b>3093 U-10</b>	 <b>D 30</b> 1/4 9/32 5/16 11/32 3/8 7/16 1/2 9/16 19/32 5/8 11/16 3/4"	 <b>3087</b>  <b>3090-5 -10</b>  <b>3095</b>	2.6	6239540	D 30 GAU-10

## Ratchets 10 (3/8")

### 3093 U-20 REVERSIBLE RATCHET 3/8"

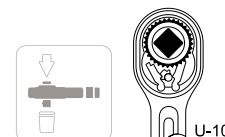
- > Used throughout industry and the automotive world - and as well in confined spaces
- > Acc. to DIN 3122, ISO 3315
- > Small, drop shaped head for confined areas
- > Fine-toothed (60 teeth), with lever change and push-button release
- > Return angle 6 degrees
- > Non-slip 2-component handle with hanging hole
- > For hand-operated sockets and accessories with square drive as per DIN 3120 - C 10, ISO 1174, ball locking device
- > GEDORE vanadium steel 31CrV3, chrome-plated



"	mm	°	mm	mm	kg	Code	No.
3/8	10	6	200	29.7	0.292	1556800	3093 U-20

### 3093 U-10 REVERSIBLE RATCHET 3/8"

- > Particularly for the demanding use experienced in industry and with utility vehicles
- > Acc. to DIN 3122, ISO 3315
- > With recessed lever change
- > Locks in the middle position: When the lever is flipped, it automatically engages for clockwise or counterclockwise operation
- > Push-button release
- > Return angle 11.25 degrees
- > Non-slip 2-component handle with hanging hole
- > For hand-operated sockets and accessories with square drive as per DIN 3120 - C 10, ISO 1174, ball locking device
- > GEDORE vanadium steel 31CrV3, chrome-plated



"	mm	°	mm	mm	kg	Code	No.
3/8	10	11,25	200	30.2	0.254	6236950	3093 U-10

### 3093 ALU-10 ALUMINIUM REVERSIBLE RATCHET 3/8"

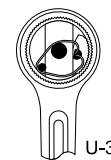
- > Very lightweight, especially for work done above your head
- > Design spec. similar to DIN 3122, ISO 3315
- > Made from special-purpose drop-forged and hardened aluminium
- > The mechanism as in all U-10 ratchets is made from high quality steel
- > With recessed lever change
- > Locks in the middle position: When the lever is flipped, it automatically engages for clockwise or counterclockwise operation
- > Push-button release
- > Return angle 11.25 degrees
- > Non-slip 2-component handle with hanging hole
- > For hand-operated sockets and accessories with square drive as per DIN 3120 - C 10, ISO 1174, ball locking device
- > Extremely lightweight - just 160 g



"	mm	°	mm	mm	kg	Code	No.
3/8	10	11,25	200	30.2	0.160	1900005	3093 ALU-10

### 3093 U-3 REVERSIBLE RATCHET 3/8"

- > Especially for working in confined spaces, as in the automotive business
- > Acc. to DIN 3122, ISO 3315
- > With non-slip metal disc change, fine-toothed (72 teeth) and robust
- > Return angle 5 degrees
- > Non-slip 2-component handle with hanging hole
- > For hand-operated sockets and accessories with square drive as per DIN 3120 - C 10, ISO 1174, ball locking device
- > GEDORE vanadium steel 31CrV3, chrome-plated



"	mm	°	mm	mm	kg	Code	No.
3/8	10	5	200	33.5	0.244	6237090	3093 U-3



## 3093 GU-3 SWIVEL HEAD REVERSIBLE RATCHET 3/8"

- > Especially for use in the automotive sector
- > Swivels through 180°, with joint lock
- > With non-slip metal disc change, fine-toothed (72 teeth) and robust
- > Return angle 5 degrees
- > Non-slip 2-component handle with hanging hole
- > Max. torque 200 N-m
- > For hand-operated sockets and accessories with square drive as per DIN 3120 - C 10, ISO 1174, ball locking device
- > GEDORE vanadium steel 31CrV3, chrome-plated



Size	Material	Return angle	Length	Width	Weight	Code	No.
3/8"	10	5°	282 mm	33.5 mm	0.525 kg	6237170	3093 GU-3

## 3093 Z-94 RATCHET HANDLE WITH COUPLER 3/8"

- > Used throughout industry and the automotive world
- > Acc. to DIN 3122, ISO 3315
- > With square coupler, medium-fine toothed, extremely rugged
- > Return angle 10 degrees
- > Non-slip 2-component handle with hanging hole
- > For hand-operated sockets and accessories with square drive as per DIN 3120 - C 10, ISO 1174, ball locking device
- > GEDORE vanadium steel 31CrV3, chrome-plated



Size	Material	Return angle	Length	Width	Weight	Code	No.
3/8"	10	10°	200 mm	18 mm	0.223 kg	6237680	3093 Z-94

VDE 3093 U

>573



## 3093 U-3 T RATCHET WITH T-HANDLE 3/8"

- > For progressing fast in confined spaces
- > Two-wing T-handle
- > Return angle 5 degrees
- > Ergonomic design for comfortable working
- > For hand-operated sockets and accessories with square drive as per DIN 3120 - C 10, ISO 1174, ball locking device
- > The danger of the tool canting, when carrying out work with extensions, is reduced by the central positioning of the square drive



Size	Material	Return angle	Length	Weight	Code	No.
3/8"	10	5°	140 mm	0.068 kg	1973320	3093 U-3 T

## Sockets 10 (3/8")

### 30 (MM) SOCKET 3/8"

hexagon UD profile

- > Acc. to DIN 3124, ISO 2725-1
  - > Square drive as per DIN 3120 - C 10, ISO 1174, with ball retention groove
  - > Hand-operated, knurled grip
  - > GEDORE vanadium steel 31CrV3, polished, chrome-plated
- \* not standardised



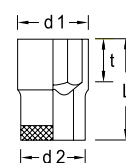
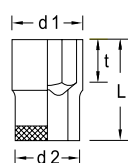
10  
3/8"

### 30 (AF) SOCKET 3/8"

hexagon UD profile

- > Square drive as per DIN 3120 - C 10, ISO 1174, with ball retention groove
- > Hand-operated, knurled grip
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated

10  
3/8"



Ø mm	L	d <sub>1</sub>	d <sub>2</sub>	t		Code	No.	
6	*	28	9.7	17.5	5.0	0.024	6230160	30 6
7		28	11.0	17.5	5.0	0.024	6230240	30 7
8		28	12.1	17.5	9.0	0.028	6230320	30 8
9		28	13.5	17.5	9.0	0.027	6230400	30 9
10		28	14.7	17.5	9.0	0.028	6230590	30 10
11		28	16.0	17.5	9.0	0.030	6233850	30 11
12		28	17.2	18.3	9.0	0.033	6233930	30 12
13		28	18.5	17.5	9.0	0.032	6234070	30 13
14		29	19.7	18.4	11.0	0.038	6234150	30 14
15		30	21.0	19.7	12.5	0.044	6234230	30 15
16		30	22.2	21.0	12.5	0.049	6234310	30 16
17		30	23.5	22.3	12.5	0.057	6234580	30 17
18		30	24.7	23.0	12.5	0.062	6234660	30 18
19		30	26.0	23.7	12.5	0.068	6234740	30 19
20		31	27.2	24.5	12.5	0.078	6234820	30 20
21		31	28.5	25.8	13.5	0.086	6234900	30 21
22		32	29.7	26.3	14.5	0.092	6235040	30 22
24	*	33	32.0	28.0	15.5	0.120	2194783	30 24

Ø AF	L	d <sub>1</sub>	d <sub>2</sub>	t		Code	No.
1/4	28	10.1	17.5	5.0	0.023	6232100	30 1/4AF
5/16	28	12.1	17.5	9.0	0.025	6232370	30 5/16AF
11/32	28	13.1	17.5	9.0	0.025	6232450	30 11/32AF
3/8	28	14.1	17.5	9.0	0.026	6232530	30 3/8AF
7/16	28	16.1	17.5	9.0	0.028	2101025	30 7/16AF
1/2	28	18.1	19.2	9.0	0.035	2101033	30 1/2AF
9/16	29	20.1	18.7	11.0	0.039	2101041	30 9/16AF
19/32	30	21.0	19.7	12.5	0.044	2101068	30 19/32AF
5/8	30	22.1	20.7	12.5	0.048	2101076	30 5/8AF
11/16	30	24.0	22.7	12.5	0.060	2101084	30 11/16AF
3/4	30	26.0	23.7	12.5	0.065	2101092	30 3/4AF
7/8	32	30.0	26.5	14.5	0.120	2101106	30 7/8AF

VDE 30

>573

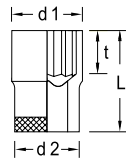


## D 30 (MM) SOCKET 3/8"



bi-hexagon UD profile

- > Acc. to DIN 3124, ISO 2725-1
  - > Square drive as per DIN 3120 - C 10, ISO 1174, with ball retention groove
  - > Hand-operated, knurled grip
  - > GEDORE vanadium steel 31CrV3, polished, chrome-plated
- \* not standardised



D 30 10

D 30 22

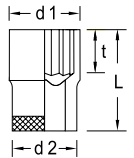
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6	28	9.7	17.5	5.0	0.111	1845705	D 30 6
7	28	11.0	17.5	5.0	0.024	1845713	D 30 7
8	28	12.1	17.5	9.0	0.026	1845721	D 30 8
9	28	13.5	17.5	9.0	0.027	1845748	D 30 9
10	28	14.7	17.5	9.0	0.028	6229230	D 30 10
11	28	16.0	17.5	9.0	0.030	6230670	D 30 11
12	28	17.2	18.3	9.0	0.032	6230750	D 30 12
13	28	18.5	17.5	9.0	0.031	6230830	D 30 13
14	29	19.7	18.4	11.0	0.037	6230910	D 30 14
15	30	21.0	19.7	12.5	0.040	6231050	D 30 15
16	30	22.2	21.0	12.5	0.049	6231130	D 30 16
17	30	23.5	22.3	12.5	0.054	6231210	D 30 17
18	30	24.7	23.0	12.5	0.062	6231480	D 30 18
19	30	26.0	23.7	12.5	0.064	6231560	D 30 19
20	31	27.2	24.5	12.5	0.074	6231640	D 30 20
21	31	28.5	25.8	13.5	0.083	6231720	D 30 21
22	32	29.7	26.3	14.5	0.087	6231800	D 30 22
24	33	32.0	28.0	15.5	0.100	2194864	D 30 24

## D 30 (AF) SOCKET 3/8"



bi-hexagon UD profile

- > Square drive as per DIN 3120 - C 10, ISO 1174, with ball retention groove
- > Hand-operated, knurled grip
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated



D 30 10

D 30 22

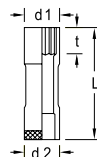
Ø "AF	L	d <sub>1</sub>	d <sub>2</sub>	t		Code	No.
1/4	28	10.1	17.5	5.0	0.050	2016613	D 30 1/4AF
9/32	28	11.1	17.5	5.0	0.020	2101009	D 30 9/32AF
5/16	28	12.1	17.5	5.0	0.020	1997122	D 30 5/16AF
11/32	28	13.1	17.5	9.0	0.026	2101017	D 30 11/32AF
3/8	28	14.1	17.5	9.0	0.010	1997130	D 30 3/8AF
13/32	28	15.0	17.5	9.0	0.030	1997149	D 30 13/32AF
7/16	28	16.1	17.5	9.0	0.027	6232610	D 30 7/16AF
1/2	28	18.1	19.2	9.0	0.034	6232880	D 30 1/2AF
9/16	29	20.1	18.7	11.0	0.036	6232960	D 30 9/16AF
19/32	30	21.0	19.7	12.5	0.039	6233180	D 30 19/32AF
5/8	30	22.1	20.7	12.5	0.044	6233260	D 30 5/8AF
11/16	30	24.0	22.7	12.5	0.053	6233340	D 30 11/16AF
3/4	30	26.0	23.7	12.5	0.061	6233420	D 30 3/4AF
25/32	31	27.0	24.3	12.5	0.075	1997157	D 30 25/32AF
13/16	31	28.0	25.3	12.5	0.080	1997165	D 30 13/16AF
7/8	32	30.0	26.5	14.5	0.082	6232020	D 30 7/8AF
15/16	33	31.9	28.0	15.5	0.110	1997173	D 30 15/16AF
1	33	33.9	30.0	15.5	0.120	1983296	D 30 1AF

## D 30 L (MM) SOCKET 3/8"



bi-hexagon UD profile, long pattern

- > Acc. to DIN 3124, ISO 2725-1
- > Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated



D 30 L 10

D 30 L 22

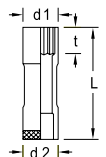
Ø mm	L	d <sub>1</sub>	d <sub>2</sub>	t		Code	No.
10	63.5	14.7	17.5	11	0.053	6258330	D 30 L 10
11	63.5	16.0	17.5	12	0.054	6258410	D 30 L 11
12	63.5	17.2	17.5	14	0.059	6258680	D 30 L 12
13	63.5	18.5	19.0	14	0.070	6258760	D 30 L 13
14	63.5	19.7	19.5	17	0.076	6258840	D 30 L 14
15	63.5	21.0	20.5	17	0.095	6258920	D 30 L 15
16	63.5	22.2	22.0	17	0.085	6259060	D 30 L 16
17	63.5	23.5	20.5	17	0.096	6259140	D 30 L 17
18	63.5	24.7	21.5	20	0.113	6259220	D 30 L 18
19	63.5	26.0	22.0	20	0.124	6259300	D 30 L 19
20	63.5	27.2	23.5	20	0.127	6259490	D 30 L 20
21	63.5	28.5	23.5	20	0.134	6259570	D 30 L 21
22	63.5	29.7	23.5	23	0.136	6259650	D 30 L 22

## D 30 L (AF) SOCKET 3/8"



bi-hexagon UD profile, long pattern

- > Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated



D 30 L 10

D 30 L 22

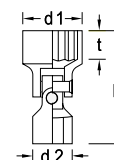
Ø "AF	L	d <sub>1</sub>	d <sub>2</sub>	t		Code	No.
3/8	63.5	14.1	17.5	11	0.051	6259730	D 30 L 3/8AF
7/16	63.5	16.1	17.5	12	0.053	6259810	D 30 L 7/16AF
1/2	63.5	18.1	19.0	14	0.065	6260070	D 30 L 1/2AF
9/16	63.5	20.1	19.5	17	0.073	6260150	D 30 L 9/16AF
5/8	63.5	22.1	22.0	17	0.092	6260230	D 30 L 5/8AF
11/16	63.5	24.0	20.5	17	0.090	6260310	D 30 L 11/16AF
3/4	63.5	26.0	22.0	20	0.109	6260580	D 30 L 3/4AF
13/16	63.5	28.3	23.5	20	0.132	6260660	D 30 L 13/16AF
7/8	63.5	30.0	23.5	23	0.134	6260740	D 30 L 7/8AF



## DG 30 SWIVEL SOCKET 3/8"

bi-hexagon UD profile

- > Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
- > Hand-operated
- > Chrome-vanadium steel 31CrV3, chrome-plated

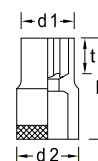


Ø mm	L	d <sub>1</sub>	d <sub>2</sub>	t	$\frac{\mu\text{m}}{\text{mm}}$	Code	No.
10	41.5	14.7	19	8.0	0.042	6240630	DG 30 10
13	42.5	18.5	19	9.0	0.050	6241520	DG 30 13
14	43.5	19.7	19	10.0	0.054	6241600	DG 30 14
15	45.5	21.0	19	11.0	0.048	6241790	DG 30 15
17	46.0	23.5	19	12.0	0.061	6241950	DG 30 17
18	46.0	24.7	19	12.5	0.063	6242410	DG 30 18
19	46.5	26.0	19	12.5	0.064	6242680	DG 30 19

## TX 30 SOCKET 3/8"

for protruding TORX® head screws

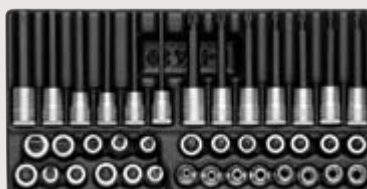
- > Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



⊙	M	★ mm	L	d <sub>1</sub>	d <sub>2</sub>	t	$\frac{\mu\text{m}}{\text{mm}}$	Code	No.
E5	M4	4,73	28	7.2	17.5	5.0	0.025	6250270	TX 30 E5
E6	M5	5,74	28	8.5	17.5	5.0	0.025	6250350	TX 30 E6
E7	M6	6,16	28	9.5	17.5	5.5	0.025	6250430	TX 30 E7
E8	M6 - M7	7,52	28	10.8	17.5	6.0	0.027	6250510	TX 30 E8
E10	M8	9,42	28	13.2	17.5	9.0	0.029	6250780	TX 30 E10
E11	-	10,08	28	13.8	17.5	9.0	0.030	6250860	TX 30 E11
E12	M10	11,17	28	15.2	17.5	9.0	0.032	6250940	TX 30 E12
E14	M12	12,90	28	16.8	18.3	9.0	0.035	6251080	TX 30 E14

1500 ES-ITX 30

> 100

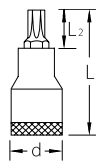


## ITX 30 SCREWDRIVER BIT SOCKET 3/8"

10  
3/8"

for recessed TORX® head screws

- > Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > Chrome-plated
- > With pressed-in pin in GEDORE vanadium special steel, gun-metal finish
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



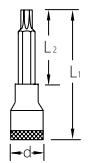
⊕	M	mm	L <sub>1</sub>	L <sub>2</sub>	d	kg	Code	No.
T20	M4 - M5	3,86	49	17	17.5	0.050	6246320	ITX 30 T20
T25	M4,5 - M5	4,43	49	17	17.5	0.051	6246830	ITX 30 T25
T27	M4,5 - M6	4,99	49	17	17.5	0.051	6247210	ITX 30 T27
T30	M6 - M7	5,52	49	17	17.5	0.051	6247560	ITX 30 T30
T40	M7 - M8	6,65	49	17	17.5	0.052	6247720	ITX 30 T40
T45	M8 - M10	7,82	49	17	17.5	0.053	6247800	ITX 30 T45
T50	M10	8,83	49	17	19.0	0.070	6247990	ITX 30 T50

## ITX 30 L SCREWDRIVER BIT SOCKET 3/8"

10  
3/8"

for recessed TORX® head screws, long pattern

- > Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > Chrome-plated
- > With pressed-in pin in GEDORE vanadium special steel, gun-metal finish
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



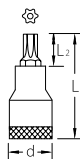
⊕	M	mm	L <sub>1</sub>	L <sub>2</sub>	d	kg	Code	No.
T20	M4 - M5	3,86	94	62	17.5	0.070	1394177	ITX 30 L T20
T25	M4,5 - M5	4,43	94	62	17.5	0.070	1394185	ITX 30 L T25
T27	M4,5 - M6	4,99	94	62	17.5	0.070	1394193	ITX 30 L T27
T30	M6 - M7	5,52	94	62	17.5	0.071	1394207	ITX 30 L T30
T40	M7 - M8	6,65	94	62	17.5	0.070	1394215	ITX 30 L T40
T45	M8 - M10	7,82	94	62	17.5	0.071	1394223	ITX 30 L T45
T50	M10	8,83	94	62	19.0	0.099	1394231	ITX 30 L T50

## ITX 30 B SCREWDRIVER BIT SOCKET 3/8"

10  
3/8"

for recessed TORX® head screws with pilot

- > Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > Chrome-plated
- > With pressed-in pin in GEDORE vanadium special steel, gun-metal finish
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



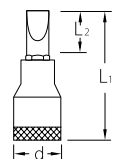
⊕	M	mm	L <sub>1</sub>	L <sub>2</sub>	d	Bore mm	kg	Code	No.
T20	M4 - M5	3,86	49	17	17.5	1,55 x 1,86	0.046	1440969	ITX 30 B T20
T25	M4,5 - M5	4,43	49	17	17.5	1,93 x 2,04	0.048	1440977	ITX 30 B T25
T27	M4,5 - M6	4,99	49	17	17.5	2,18 x 2,29	0.048	1440985	ITX 30 B T27
T30	M6 - M7	5,52	49	17	17.5	2,56 x 2,92	0.048	1440993	ITX 30 B T30
T40	M7 - M8	6,65	49	17	19.0	2,92 x 3,28	0.064	1429701	ITX 30 B T40
T45	M8 - M10	7,82	49	17	19.0	3,45 x 3,68	0.066	1441000	ITX 30 B T45
T50	M10	8,83	49	17	20.5	3,83 x 3,78	0.078	1441019	ITX 30 B T50

## IS 30 SCREWDRIVER BIT SOCKET 3/8"

10  
3/8"

for slotted head screws

- > Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > Chrome-plated
- > With pressed-in pin in GEDORE vanadium special steel, manganese-phosphated
- > Blade as per DIN ISO 2380-1, Form B



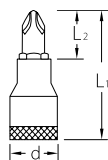
⊕	mm	mm	L <sub>1</sub>	L <sub>2</sub>	d	kg	Code	No.
5.5	1.0	55	27	17.5	0.040	6666100	IS 30 5,5x1	
6.5	1.2	55	27	17.5	0.039	1640895	IS 30 6,5x1,2	
8.0	1.2	55	23	17.5	0.054	6666290	IS 30 8x1,2	
10.0	1.6	55	23	19.0	0.072	6666370	IS 30 10x1,6	
12.0	2.0	55	23	20.5	0.083	1640909	IS 30 12x2	

## IKS 30 SCREWDRIVER BIT SOCKET 3/8"

10  
3/8"

for cross-head screws PH

- > Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > Chrome-plated
- > With pressed-in pin in GEDORE vanadium special steel, gun-metal finish
- > Tip as per DIN ISO 8764-1 PH



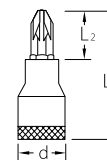
⊕ PH	L <sub>1</sub>	L <sub>2</sub>	d		Code	No.
1	55	27	17.5	0.041	6666610	IKS 30 1
2	55	23	17.5	0.052	6666880	IKS 30 2
3	55	23	19.0	0.070	6666960	IKS 30 3

## IKS 30 PZD SCREWDRIVER BIT SOCKET 3/8"

10  
3/8"

for cross-head screws Pozi PZ

- > Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > Chrome-plated
- > With pressed-in pin in GEDORE vanadium special steel, gun-metal finish
- > Tip as per DIN ISO 8764-1 PZ



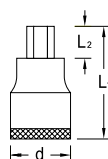
⊕ PZ	L <sub>1</sub>	L <sub>2</sub>	d		Code	No.
1	55	27	17.5	0.040	1640968	IKS 30 PZD 1
2	55	23	17.5	0.051	1640976	IKS 30 PZD 2
3	55	23	19.0	0.069	1640984	IKS 30 PZD 3

## IN 30 (MM) SCREWDRIVER BIT SOCKET 3/8"

10  
3/8"

for in-hex screws

- > Acc. to DIN 7422
  - > Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
  - > Hand-operated, knurled grip
  - > Chrome-plated
  - > With pressed-in pin in GEDORE vanadium special steel, manganese-phosphated
- \* not standardised



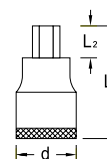
● mm	L <sub>1</sub>	L <sub>2</sub>	d		Code	No.
4	47	19	17.5	0.038	6241010	IN 30 4
5	47	19	17.5	0.039	6241280	IN 30 5
6	47	19	17.5	0.041	6241360	IN 30 6
7	*	47	17.5	0.041	1643037	IN 30 7
8	49	17	17.5	0.053	6241440	IN 30 8
10	49	17	19.0	0.073	6242920	IN 30 10

## IN 30 (AF) SCREWDRIVER BIT SOCKET 3/8"

10  
3/8"

for in-hex screws

- > Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > Chrome-plated
- > With pressed-in pin in GEDORE vanadium special steel, manganese-phosphated



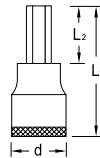
● AF	L <sub>1</sub>	L <sub>2</sub>	d		Code	No.
1/8	47	19	17.5	0.035	2195208	IN 30 1/8AF
5/32	47	19	17.5	0.040	2195232	IN 30 5/32AF
3/16	47	19	17.5	0.040	2195267	IN 30 3/16AF
1/4	47	19	17.5	0.049	1193422	IN 30 1/4AF
5/16	49	17	17.5	0.054	1193431	IN 30 5/16AF
3/8	49	17	19.0	0.050	1193449	IN 30 3/8AF

## IN 30 L SCREWDRIVER BIT SOCKET 3/8"

10  
3/8"

for in-hex screws, long pattern

- > Acc. to DIN 7422
- > Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > Chrome-plated
- > With pressed-in pin in GEDORE vanadium special steel, manganese-phosphated



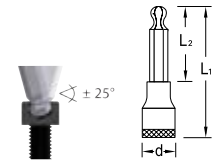
● mm	L <sub>1</sub>	L <sub>2</sub>	d	⚖	Code	No.
4	95	67	17.5	0.044	1510118	IN 30 L 4-95
5	95	67	17.5	0.048	1394347	IN 30 L 5-95
6	95	67	17.5	0.053	1394355	IN 30 L 6-95
7	95	67	17.5	0.058	1394363	IN 30 L 7-95
8	95	63	17.5	0.074	1394371	IN 30 L 8-95
10	95	63	19.0	0.105	1394398	IN 30 L 10-95

## IN 30 LK SCREWDRIVER BIT SOCKET 3/8"

10  
3/8"

with ball end, for in-hex screws, long pattern

- > Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > Chrome-plated
- > With pressed-in pin in GEDORE vanadium special steel, gun-metal finish
- > Total swivel angle approx. 15-20°



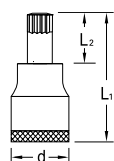
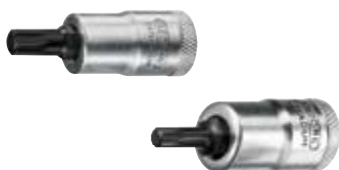
● mm	L <sub>1</sub>	L <sub>2</sub>	d	⚖	Code	No.
4	132	104	17.5	0.048	1505718	IN 30 LK 4
5	132	104	17.5	0.054	1505726	IN 30 LK 5
6	132	104	17.5	0.061	1505742	IN 30 LK 6
8	134	102	17.5	0.091	1505750	IN 30 LK 8
10	134	102	19.0	0.130	1505769	IN 30 LK 10

## INX 30 SCREWDRIVER BIT SOCKET 3/8"

10  
3/8"

for multi-point screws XZN

- > Acc. to DIN 2324
- > Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > Chrome-plated
- > With pressed-in pin in GEDORE vanadium special steel, manganese-phosphated
- > Tip as per DIN 2325



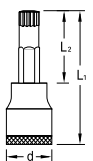
● M	L <sub>1</sub>	L <sub>2</sub>	d	⚖	Code	No.
M5	49	17	17.5	0.050	6242170	INX 30 5
M6	49	17	17.5	0.051	6242250	INX 30 6
M8	49	17	17.5	0.053	6242330	INX 30 8
M10	49	17	19.0	0.078	2194872	INX 30 10

## INX 30 L SCREWDRIVER BIT SOCKET 3/8"

10  
3/8"

for multi-point screws XZN, long pattern

- > Acc. to DIN 2324
- > Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > Chrome-plated
- > With pressed-in pin in GEDORE vanadium special steel, manganese-phosphated
- > Tip as per DIN 2325



● M	L <sub>1</sub>	L <sub>2</sub>	d	⚖	Code	No.
M6	94	62	17.5	0.068	1394312	INX 30 L 6
M8	94	62	17.5	0.071	1394320	INX 30 L 8
M10	94	62	19.0	0.079	1394339	INX 30 L 10

## Accessories 10 (3/8")

### 3084 SPEED BRACE 3/8"

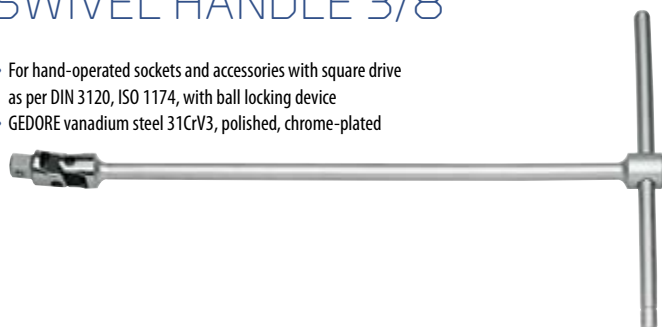
- > Acc. to DIN 3122, ISO 3315
- > For hand-operated sockets and accessories with square drive as per DIN 3120, ISO 1174, with ball locking device
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated
- > No. 3084 L for applications e.g. in the aviation sector



"	■	↳ mm	⚖	Code	No.
3/8	10	288	0.423	6236440	3084
3/8	10	463	0.568	1965395	3084 L

### 3098 SWIVEL HANDLE 3/8"

- > For hand-operated sockets and accessories with square drive as per DIN 3120, ISO 1174, with ball locking device
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated



"	■	↳ mm	⚖	Code	No.
3/8	10	450	0.364	6182410	3098

### 3096 SWIVEL HANDLE 3/8"

- > Acc. to DIN 3122, ISO 3315
- > For hand-operated sockets and accessories with square drive as per DIN 3120, ISO 1174, with ball locking device
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated



"	■	↳ mm	⚖	Code	No.
3/8	10	254	0.201	6238220	3096

### 3087 A SLIDING T BAR WITH RELEASE 3/8"

- > Secured against unintentional removal
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated
- > Turn handle for easy locking and releasing
- > Accidental release when working is prevented because of the asymmetrical release point
- > Particularly useful for work in sensitive areas where certainty against loss is a theme
- > Examples: Aircraft engine, work in deep machine bodies
- > DBGm (German utility patent)



"	■	↳ mm	⚖	Code	No.
3/8	10	163	0.135	1871633	3087 A

### 3087 SLIDING T BAR 3/8"

- > Acc. to DIN 3122, ISO 3315
- > For hand-operated sockets and accessories with square drive as per DIN 3120, ISO 1174, with ball locking device
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated



"	■	↳ mm	⚖	Code	No.
3/8	10	163	0.164	6236520	3087

## 3081 L-HANDLE 3/8"

- > Acc. to DIN 3122, ISO 3315
- > For hand-operated sockets and accessories with square drive as per DIN 3120, ISO 1174, with ball locking device
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated



■ "	■	l- mm -l	⚖ kg	Code	No.
3/8	10	180	0.153	6236360	3081

## 3090 A EXTENSION 3/8"

with release

- > Easy access to deep-fitting screws in confined areas
- > No unintentional release of the socket from the extension due to safety ring
- > For hand-operated sockets and accessories with square drive as per DIN 3120, ISO 1174, with ball locking device



■ "	■	l- mm -l	⚖ kg	Code	No.
3/8	10	125	0.120	1932314	3090 A-5
3/8	10	250	0.210	1932322	3090 A-10

## 3090 M EXTENSION 3/8"

with magnet

- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- > The holding magnet securely fixes the screws or nuts in the socket
- > One-hand operation - using the socket the screw or nut can be immediately screwed in
- > Thanks to a spring mechanism the holding magnet is always in direct contact with the screw head. It ensures that the screw is centrally guided
- > A strong permanent magnet keeps hold of even large screws
- > Makes work easier particularly in confined spaces
- > Hot forged
- > GEDORE vanadium steel 31CrV3, polished



■ "	■	l- mm -l	⚖ kg	Code	No.
3/8	10	65	0.065	2960060	3090 M

## 3090 EXTENSION 3/8"

- > Acc. to DIN 3123, ISO 3316
- > For hand-operated sockets and accessories with square drive as per DIN 3120, ISO 1174, with ball locking device
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated
- \* not standardised



3090-2



3090-3



3090-5



3090-7



3090-10

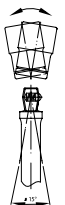


3090-12

■ "	■		l- mm -l	⚖ kg	Code	No.
3/8	10	*	50	0.063	1476637	3090-2
3/8	10		76	0.093	6236600	3090-3
3/8	10		125	0.117	6236790	3090-5
3/8	10	*	180	0.164	1476645	3090-7
3/8	10		250	0.222	6236870	3090-10
3/8	10	*	305	0.287	6238570	3090-12
3/8	10	*	500	0.524	1476653	3090-20

## 3090 KR UNIVERSAL EXTENSION 3/8"

- > With ball end
- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- > The extension is able to pivot up to 15°
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated



■ "	■	l- mm -l	⚖ kg	Code	No.
3/8	10	76	0.080	1874381	3090 KR-3
3/8	10	125	0.108	1845756	3090 KR-5
3/8	10	250	0.197	1845764	3090 KR-10

VDE 3090

>573



## 3095 UNIVERSAL JOINT 3/8"

- > Acc. to DIN 3123, ISO 3316
- > For hand-operated sockets and accessories with square drive as per DIN 3120, ISO 1174, with ball locking device

- > GEDORE vanadium steel 31CrV3, polished, chrome-plated

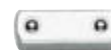


"	"	"	"	mm	kg	Code	No.
3/8	10	3/8	10	50	0.053	6238140	3095

## 3094 COUPLER 3/8"

- > Acc. to DIN 3122, ISO 3316
- > For hand-operated sockets and accessories with square drive as per DIN 3120, ISO 1174, with ball locking device

- > GEDORE vanadium steel 31CrV3, polished, chrome-plated



"	"	mm	kg	Code	No.
3/8	10	29	0.020	6237760	3094

## 3019 CONVERTOR 3/8" TO 1/2"

- > Acc. to DIN 3123, ISO 3316
- > For hand-operated sockets and accessories with square drive as per DIN 3120, ISO 1174, with ball locking device

- > GEDORE vanadium steel 31CrV3, polished, chrome-plated



"	"	"	"	mm	kg	Code	No.
3/8	10	1/2	12.5	35	0.053	6236010	3019

## 3020 REDUCER 3/8" TO 1/4"

- > Acc. to DIN 3123, ISO 3316
- > For hand-operated sockets and accessories with square drive as per DIN 3120, ISO 1174, with ball locking device

- > GEDORE vanadium steel 31CrV3, polished, chrome-plated



"	"	"	"	mm	kg	Code	No.
3/8	10	1/4	6.3	28	0.026	6236280	3020

## SL 3014 TOOL HOLDING RAIL, MAGNETIC 3/8"

empty

- > External squares to take 14 standard commercial 10 mm (3/8") sockets
- > Two female square adaptors to take ratchets, sliding T bars, extensions etc.
- > A strong magnet securely holds the socket rail to ferrous metals
- > Additional holes are provided for wall mounting the socket rail or attaching to non-ferrous materials
- > The sockets are securely locked by the ball at the square-drive end by turning them 90°

- > It is a simple matter to "unlock" and remove the sockets, by turning them 90° in the opposing direction
- > Delivery without tools



mm	mm	kg	Code	No.
380	33	0.355	1761080	SL 2013



## VH 30 SPRING STEEL SOCKET RAIL 3/8"

- > For 14 3/8" sockets
- > Delivery without tools



mm	kg	Code	No.
405	0.067	5164810	VH 30



12.5 (1/2") square drive

12.5 1/2"

Sets 12.5 (1/2") METRIC

12.5 1/2"

19 KMU / D 19 KMU  
SOCKET SET 1/2"

13 pieces

- > With forged, tempered hexagon (no.19) or UD profile sockets (no. D 19), hand-operated
- > With accessories made from GEDORE vanadium steel 31CrV
- > With robust lever-change reversible ratchet, with push-button release
- > In GEDORE blue sheet steel case
- > Dimensions: 320 x 132 x 55 mm



12.5  
1/2"  
mm

Ratchet	Sockets	Accessories	kg	Code	No.
U-20 <b>1993 U-20</b>	19 10 12 13 14 15 16 17 18 19 22 24	1990-5	2.9	2545810	19 KMU-20
U-20 <b>1993 U-20</b>	D 19 10 12 13 14 15 16 17 18 19 22 24	1990-5	2.9	2545829	D 19 KMU-20

19 JMU / D 19 JMU  
SOCKET SET 1/2"

19 pieces

- > With forged, tempered hexagon (no.19) or UD profile sockets (no. D 19), hand-operated
- > With accessories made from GEDORE vanadium steel 31CrV3
- > With fine toothed, dial change ratchet
- > In GEDORE blue sheet steel case
- > Dimensions: 320 x 210 x 55 mm



12.5  
1/2"  
mm

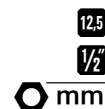
Ratchet	Sockets	Accessories	kg	Code	No.
U-3 <b>1993 U-3</b>	19 8 9 10 11 12 13 14 15 16 17 18 19 21 22 24	1990-5 -10 1995	3.7	2682842	19 JMU-3
U-3 <b>1993 U-3</b>	D 19 8 9 10 11 12 13 14 15 16 17 18 19 21 22 24	1990-5 -10 1995	3.7	2682850	D 19 JMU-3



# 19 EMU / D 19 EMU SOCKET SET 1/2"

23 pieces

- > With forged, tempered hexagon (no.19) or UD profile sockets (no. D 19), hand-operated
- > With accessories made from GEDORE vanadium steel 31CrV3
- > Set U-20 with robust lever-change reversible ratchet, with push-button release
- > Set U-3 with fine toothed, dial change ratchet
- > In GEDORE blue sheet steel case
- > Dimensions: 425 x 277 x 55 mm



Ratchet	Sockets	Accessories	kg	Code	No.
U-20 <b>1993 U-20</b>	19 8 9 10 11 12 13 14 15 16 17 18 19 21 22 24 27 30 32	<b>1987</b> <b>1990-5 -10</b> <b>1995</b>	6.8	2545837	19 EMU-20
U-20 <b>1993 U-20</b>	D 19 8 9 10 11 12 13 14 15 16 17 18 19 21 22 24 27 30 32	<b>1987</b> <b>1990-5 -10</b> <b>1995</b>	6.7	2545845	D 19 EMU-20
U-3 <b>1993 U-3</b>	19 8 9 10 11 12 13 14 15 16 17 18 19 21 22 24 27 30 32	<b>1987</b> <b>1990-5 -10</b> <b>1995</b>	6.8	2545853	19 EMU-3
U-3 <b>1993 U-3</b>	D 19 8 9 10 11 12 13 14 15 16 17 18 19 21 22 24 27 30 32	<b>1987</b> <b>1990-5 -10</b> <b>1995</b>	6.6	2545861	D 19 EMU-3

# 19 TMU / D 19 TMU SOCKET SET 1/2"

25 pieces

- > With forged, tempered hexagon (no.19) or UD profile sockets (no. D 19), hand-operated
- > With accessories made from GEDORE vanadium steel 31CrV3
- > With reversible lever change ratchet, with push-button release
- > In GEDORE blue sheet steel case
- > Dimensions: 425 x 277 x 55 mm



Ratchet	Sockets	Accessories	kg	Code	No.
U-10 <b>1993 U-10T</b>	19 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 30 32	<b>1985</b> <b>1987</b> <b>1990-5 -10</b> <b>1995</b>	7.8	6151880	19TMU-10
U-10 <b>1993 U-10T</b>	D 19 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 30 32	<b>1985</b> <b>1987</b> <b>1990-5 -10</b> <b>1995</b>	7.7	6151960	D 19TMU-10












# 19 VMU / D 19 VMU SOCKET SET 1/2"

28 pieces

- > With forged, tempered hexagon (no.19) or UD profile sockets (no. D 19), hand-operated
- > With accessories made from GEDORE vanadium steel 31CrV3
- > With reversible lever change ratchet, with push-button release
- > In GEDORE blue sheet steel case
- > Dimensions: 425 x 277 x 55 mm

12.5  
1/2"  
mm



Ratchet	Sockets	Accessories		Code	No.
 <b>1993 U-10 T</b>	 <b>19</b> 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 26 27 28 30 32 33 34 36	 <b>1987</b>  <b>1990-5 -10</b>  <b>1995</b>	7.8	2682869	19 VMU-10
 <b>1993 U-10 T</b>	 <b>D 19</b> 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 26 27 28 30 32 33 34 36	 <b>1987</b>  <b>1990-5 -10</b>  <b>1995</b>	7.8	2682877	D 19 VMU-10







# 19 LMU-10 SOCKET SET 1/2"

31 pieces

- > With forged, tempered UD profile sockets, hand-operated
- > Impact sockets with protective sleeve
- > With accessories made from GEDORE vanadium steel 31CrV3
- > With reversible lever change ratchet, with push-button release
- > In GEDORE blue sheet steel case
- > Dimensions: 425 x 277 x 55 mm

12.5  
1/2"  
mm

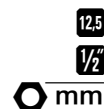


Ratchet	Sockets	Accessories		Code	No.
 <b>1993 U-10 T</b>	 <b>19</b> 10 11 12 13 14 15 16 17 18 19 21 22 24 27 32 36  <b>D 19 L</b> 10 12 13 14 15 16 18 24  <b>K 19 LS</b> 17 19 21 22	 <b>1990-5 -10</b>	8.3	1806033	19 LMU-10

# 19 RMU-10 SOCKET SET 1/2"

32 pieces

- > With forged, tempered hexagon UD profile sockets, hand-operated
- > With combination ratchet spanner no. 7 R for ratchet loosening and fast tightening
- > With accessories made from GEDORE vanadium steel 31CrV3
- > With reversible lever change ratchet, with push-button release
- > In GEDORE blue sheet steel case
- > Dimensions: 425 x 277 x 55 mm

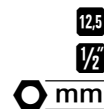


Ratchet	Sockets	Accessories		Code	No.
<b>1993 U-10 T</b>	<b>19</b> 8 10 11 12 13 14 15 16 17 18 19 21 22 24 27 32 36 <b>7 R</b> 8 10 11 12 13 14 15 16 17 18 19	<b>1990-5 -10</b> <b>1995</b>	7.7	6145210	19 RMU-10

# IN 19 Q SCREWDRIVER BIT SOCKET SET 1/2"

11 pieces

- > For in-hex screws
- > In GEDORE blue sheet steel case
- > Dimensions: 320 x 210 x 55 mm



Ratchet	Sockets	Accessories		Code	No.
<b>1993 U-10 T</b>	<b>IN 19</b> 5 6 7 8 9 10 12 14 17	<b>1990-10</b>	3.3	6156920	IN 19 Q

# 19 IMU / D 19 IMU SOCKET SET 1/2"

27 pieces

- > With forged, tempered hexagon (no.19) or UD profile sockets (no. D 19), hand-operated
- > With accessories made from GEDORE vanadium steel 31CrV3
- > With reversible lever change ratchet, with push-button release
- > In GEDORE blue sheet steel case
- > Dimensions: 425 x 277 x 55 mm

12.5  
1/2"  
mm



Ratchet	Sockets	Accessories	kg	Code	No.
U-10 1993 U-10 T	19 10 11 12 13 14 15 17 19 22 24 27 30 IN 19 5 6 7 8 10 12 14 IS 19 8 10 IKS 19 2 3	1990-5 -10 1995	6.9	6139750	19 IMU-10
U-10 1993 U-10 T	D 19 10 11 12 13 14 15 17 19 22 24 27 30 IN 19 5 6 7 8 10 12 14 IS 19 8 10 IKS 19 2 3	1990-5 -10 1995	6.8	6140090	D 19 IMU-10

# ITX 19 TXU-20 SOCKET SET 1/2"

25 pieces

- > For protruding and recessed TORX® screws
- > In GEDORE blue sheet steel case
- > Dimensions: 425 x 277 x 55 mm
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

12.5  
1/2"  
12.5  
1/2"

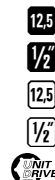





Ratchet	Sockets	Accessories	kg	Code	No.
U-20 1993 U-20	ITX 19 T20 T25 T27 T30 T40 T45 T50 T55 T60 TX 19 E10 E11 E12 E14 E16 E18 E20 E24 TX 4 E6xE8 E10xE12 E14xE18 E20xE24	1990-5 -10 1995	6.4	2546019	ITX 19 TXU-20

# ITX 19 INU-20 SOCKET SET 1/2"

42 pieces

- > For protruding and recessed TORX® screws and in-hex screws
- > In GEDORE blue sheet steel case
- > Dimensions: 425 x 277 x 55 mm
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA




















Ratchet	Sockets	Accessories		Code	No.
 <b>1993 U-20</b>	<ul style="list-style-type: none"> <li>○ <b>19</b> 10 11 12 13 14 15 16 17 18 19 21 22 24 27 30 32</li> <li>● <b>IN 19</b> 5 6 7 8 9 10 12 14 17</li> <li>⊕ <b>TX 19</b> E10 E12 E14 E16 E18 E20 E24</li> <li>⊕ <b>ITX 19</b> T20 T25 T27 T30 T40 T45 T50 T55 T60</li> </ul>	 <b>1990 KR-10</b>	8.2	2546000	ITX 19 INU-20

# 19 V20U-10 SOCKET SET 1/4"-1/2"

50 pieces

- > With forged, tempered hexagon or UD profile sockets, hand-operated
- > With accessories made from GEDORE vanadium steel 31CrV3
- > 1/4" with fine toothed, dial change ratchet U-3
- > 1/2" with reversible lever change ratchet U-10 T
- > In GEDORE blue sheet steel case
- > Dimensions: 425 x 277 x 55 mm



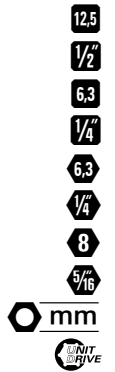
Ratchet	Sockets	Accessories		Code	No.
 <b>1993 U-10 T</b>	<ul style="list-style-type: none"> <li> ○ <b>19</b> 10 11 12 13 14 15 17 19 22 24 27 30</li> <li> ● <b>IN 19</b> 7 8 10 12 14</li> <li> ⊖ <b>IS 19</b> 8 10</li> <li> ⊕ <b>IKS 19</b> 3</li> </ul>	<ul style="list-style-type: none"> <li> <b>1990-5 -10</b></li> <li> <b>1995</b></li> <li> <b>2098</b></li> <li> <b>2090-2 -4</b></li> <li> <b>2087</b></li> <li> <b>2095</b></li> </ul>	7.2	6157490	19V20U-10
 <b>2093 U-3</b>	<ul style="list-style-type: none"> <li> ○ <b>20</b> 4 4,5 5 5,5 6 7 8 9 10 11 13</li> <li> ● <b>IN 20</b> 3 4 5 6</li> <li> ⊖ <b>IS 20</b> 4 5,5 6,5</li> <li> ⊕ <b>IKS 20</b> 1 2</li> </ul>				

# 19 V20U-20

## SOCKET SET 1/4"-1/2"

81 pieces

- > With forged, tempered sockets, hand-operated
- > With accessories made from GEDORE vanadium steel 31CrV3
- > With robust lever-change reversible ratchet, with push-button release
- > In GEDORE blue sheet steel case
- > Dimensions: 425 x 277 x 55 mm



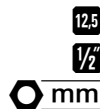
Ratchet	Sockets	Accessories	kg	Code	No.
1/2" U-20 <b>1993 U-20</b>	19 10 11 12 13 14 15 16 17 18 19 21 22 24 27 30 32 36	1990 KR-5 -10	7.4	1550691	19V20U-20
1/4" U-20 <b>2093 U-20</b>	D 20 4 5 5,5 6 7 8 9 10 11 12 13 680 4 4,5 5,5 6,5 685 2 2,5 3 4 5 6 8 685 X 5 6 8 687 TX T10 T15 T20 T25 T27 T30 T40 690 1 2 3 690 PZD 1 2 3 885 3 4 5 6 8 10 885 X 5 6 8 10 12 887 TX T27 T30 T40 T45 T50	2090-4 2095 620 676 699 KB 819			

# D 19 L-015

## SOCKET SET 1/2"

15 pieces

- > With forged, tempered UD profile sockets, hand-operated
- > In GEDORE blue sheet steel case
- > Dimensions: 320 x 210 x 55 mm



# IN 19 PM

## SCREWDRIVER BIT SOCKET SET 1/2"

9 pieces

- > For in-hex screws
- > In GEDORE blue sheet steel case
- > Dimensions: 281 x 79 x 35 mm



Sockets	kg	Code	No.
D 19 L 10 12 13 14 15 16 17 18 19 21 22 24 27 30 32	4.3	2190214	D 19 L-015


Sockets	kg	Code	No.
IN 19 S 6 7 8 9 10 12 14 17	1.362	6156250	IN 19 PM

## INX 19 PM SCREWDRIVER BIT SOCKET SET 1/2"

9 pieces

- > For slotted, cross-head and multi-point screws
- > In GEDORE blue sheet steel case
- > Dimensions: 281 x 79 x 35 mm



Sockets		Code	No.
● INX 19 5 6 8 10 12	1.3	6150050	INX 19 PM
⊕ IKS 19 2 3			
⊖ IS 19 12 16			

## IN 19 LKM SCREWDRIVER BIT SOCKET SET 1/2"

15 pieces

- > For in-hex screws, short and long
- > In GEDORE blue sheet steel case
- > Dimensions: 320 x 210 x 55 mm




Sockets		Code	No.
● IN 19 5 6 7 8 9 10 12 14 17	3.2	6129360	IN 19 LKM
● IN 19 L 5-90 6-90 8-90 10-140 12-140 14-140			

## ITX 19 PM / ITX 19 B-PM SCREWDRIVER BIT SOCKET SET 1/2"

9 pieces

- > ITX 19 PM: for recessed TORX® head screws
- > ITX 19 B-PM: for recessed TORX® head screws with pilot
- > In GEDORE blue sheet steel case
- > Dimensions: 281 x 79 x 35 mm
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA




Sockets		Code	No.
● ITX 19 T20 T25 T27 T30 T40 T45 T50 T55 T60	1.2	6158970	ITX 19 PM
● ITX 19 B T20 T25 T27 T30 T40 T45 T50 T55 T60	1.3	1394894	ITX 19 B-PM

## TX 19 E-09 SOCKET SET 1/2"

9 pieces

- > For protruding TORX® screws
- > With convertor 3/8" to 1/2"
- > In plastic case
- > Dimensions: 200 x 120 x 38 mm
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



Sockets		Code	No.
● TX 19 E10 E11 E12 E14 E16 E18 E20 E24	1.0	6265970	TX 19 E-09
Ⓢ 3019			

## ITX 19 TX-017 SCREWDRIVER BIT SOCKET SET 1/2"

17 pieces

- > For protruding and recessed TORX® screws
- > In GEDORE blue sheet steel case
- > Dimensions: 320 x 210 x 55 mm
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



12,5  
1/2"


## ITX 19 LKP SCREWDRIVER BIT SOCKET SET 1/2"


18 pieces

- > For recessed TORX® screws, short and long
- > In GEDORE blue sheet steel case
- > Dimensions: 320 x 210 x 55 mm
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



12,5  
1/2"

Sockets		Code	No.
ITX 19 T20 T25 T27 T30 T40 T45 T50 T55 T60	2.8	6129520	ITX 19 TX-017
TX 19 E10 E11 E12 E14 E16 E18 E20 E24			

Sockets		Code	No.
ITX 19 T20 T25 T27 T30 T40 T45 T50 T55 T60	3.2	6138510	ITX 19 LKP
ITX 19 L T20 T25 T27 T30 T40 T45 T50 T55 T60			


## 19 TX 20 SCREWDRIVER BIT SOCKET SET 1/2" + 1/4"

34 pieces

- > 1/4" and 1/2" sockets for protruding and recessed TORX® screws
- > In GEDORE blue sheet steel case
- > Dimensions: 320 x 210 x 55 mm
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



6,3  
1/4"  
12,5  
1/2"

Sockets		Code	No.
ITX 19 T40 T45 T50 T55 T60	3.6	6129440	19TX 20
ITX 19 LT20 T25 T27 T30 T40 T45 T50 T55 T60			
TX 19 E12 E14 E16 E18 E20 E24			
ITX 20 T8 T9 T10 T15 T20 T25 T27 T30			
TX 20 E4 E5 E6 E7 E8 E10			



## Sets 12.5 (1/2") INCH

D 19 WAU-20  
SOCKET SET 1/2"

31 pieces






- > With forged, tempered UD profile sockets, hand-operated
- > With accessories made from GEDORE vanadium steel 31CrV3
- > With robust lever-change reversible ratchet, with push-button release
- > In GEDORE blue sheet steel case
- > Dimensions: 425 x 277 x 55 mm



12.5

1/2"

"AF"

Ratchet	Sockets	Accessories		Code	No.
 <b>1993 U-20</b>	 <b>D 19</b> 5/16 11/32 3/8 13/32 7/16 1/2 9/16 19/32 5/8 11/16 3/4 25/32 13/16 7/8 15/16 1" 1.1/16 1.1/8 1.3/16 1.1/4" <b>H 42 EL-88 A</b>	 <b>1990-5</b> -10  <b>1995</b>	6.9	2546027	D 19 WAU-20

IN 19 PA  
SCREWDRIVER BIT SOCKET SET 1/2"

9 pieces

- > For in-hex screws
- > In GEDORE blue sheet steel case
- > Dimensions: 281 x 79 x 35 mm



12.5

1/2"

"AF"

Sockets		Code	No.
 <b>IN 19</b> 3/16 7/32 1/4 9/32 5/16 3/8 1/2 9/16 5/8"	1.328	6156410	IN 19 PA

Sets 12.5 (1/2") MM+INCH

# D 19 XMAU-20 SOCKET SET 1/2"

31 pieces

- > With forged, tempered UD profile sockets, hand-operated
- > With accessories made from GEDORE vanadium steel 31CrV3
- > With robust lever-change reversible ratchet, with push-button release
- > In GEDORE blue sheet steel case
- > Dimensions: 425 x 277 x 55 mm

12.5  
1/2"  
mm  
"AF"



Ratchet	Sockets	Accessories	Weight	Code	No.
U-20 1993 U-20	D 19 11 13 14 17 19 22 24 27 30 32 D 19 3/8 13/32 7/16 1/2 9/16 19/32 5/8 11/16 3/4 25/32 13/16 7/8 15/16 1" 1.1/16 1.1/8"	1987 1990-5 -10 1995	7.6	2546043	D 19 XMAU-20

Sets 12.5 (1/2") WITHWORTH

# D 19 YWU-20 SOCKET SET 1/2"

14 pieces

- > With forged, tempered bi-hexagon sockets, hand-operated
- > With accessories made from GEDORE vanadium steel 31CrV3
- > With robust lever-change reversible ratchet, with push-button release
- > In GEDORE blue sheet steel case
- > Dimensions: 320 x 210 x 55 mm

12.5  
1/2"  
Whitw.



Ratchet	Sockets	Accessories	Weight	Code	No.
U-20 1993 U-20	D 19 3/16 1/4 5/16 3/8 7/16 1/2 9/16 5/8 11/16 3/4W	1990-5 -10 1995	3.8	2546035	D 19 YWU-20

SK 19 MM

# SK RATCHET AND SOCKETS

## SK = SOCKET SHORT

- > Especially for working in confined spaces
- > Sockets and ratchet with tubular section for taking up long thread bolts
- > A compact and inner-cavity hexagonal system as the connection between ratchet and socket
- > The sockets are inserted into the ratchet hexagon female drive

- > The drive length is concealed inside the ratchet and shortens the projecting part of the socket by 50 % as against the traditional system
- > Sockets and ratchet hot-drop forged of GEDORE steel
- > Sockets from 10 to 24 mm



# 19 SKU-20

## SOCKET SET



14 pieces

- > With forged, tempered, hand-operated sockets no. 19 SK with hexagon drive 18.95 mm
- > With reversible lever change ratchet with in-hex drive 19 mm
- > Small, drop shaped head for confined areas
- > Fine-toothed, return angle 6 degrees
- > Non-slip 2-component handle with hanging hole
- > In GEDORE blue sheet steel case
- > Dimensions: 320 x 132 x 55 mm



Ratchet

Sockets



Code

No.

U-20 1993 U-20 SK

19 SK 10 11 12 13 14 15  
16 17 18 19 21 22 24

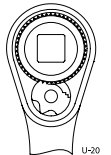
2.6

2521563

19 SKU-20

# 1993 U-20 SK REVERSIBLE RATCHET

- > Especially for thread bolts and working in confined spaces
- > With hexagon drive
- > Torques specification required to standard DIN 3122 is exceeded
- > Small, drop shaped head for confined areas
- > Fine-toothed (60 teeth), with lever change
- > Return angle 6 degrees
- > Non-slip 2-component handle with hanging hole
- > For hand-operated sockets with hexagon no. 19 SK
- > GEDORE vanadium steel 31CrV3, chrome-plated



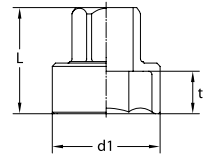
Hexagon	Return angle	Length	Head width	Weight	Code	No.
19	6°	270	21	0.510	2219492	1993 U-20 SK

# 19 SK SOCKET



hexagon, short pattern

- > With hexagon drive size 18.95 mm
- > For use with reversible ratchet no. 1993 U-20 SK
- > Torques specification required to standard DIN 3124 is exceeded
- > GEDORE steel 42CrMo4, chrome-plated



Code	L	d <sub>1</sub>	t	Weight	Code	No.
10	24.0	15.5	6.0	0.040	2521539	19 SK 10
11	24.0	16.7	6.0	0.040	2521547	19 SK 11
12	25.0	18.0	7.0	0.040	2521555	19 SK 12
13	25.0	19.2	7.0	0.040	2225875	19 SK 13
14	25.0	20.5	7.0	0.040	2225883	19 SK 14
15	26.5	21.7	8.5	0.040	2225891	19 SK 15
16	26.5	22.5	8.5	0.091	2225905	19 SK 16
17	27.0	24.0	8.5	0.040	2225913	19 SK 17
18	31.0	25.5	11.0	0.040	2225921	19 SK 18

Code	L	d <sub>1</sub>	t	Weight	Code	No.
19	31.0	26.7	11.0	0.081	2225948	19 SK 19
21	33.0	29.2	13.0	0.040	2225964	19 SK 21
22	33.0	30.5	13.0	0.121	2225972	19 SK 22
24	33.0	33.0	13.0	0.151	2225980	19 SK 24

VDE 1993 U

>575

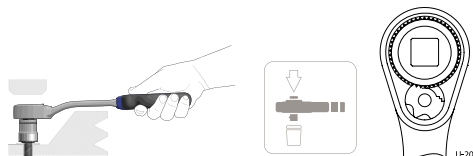


## Ratchets 12.5 (1/2")

### 1993 U-20 G REVERSIBLE RATCHET 1/2"

with offset handle

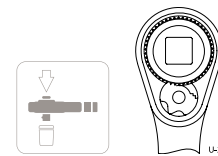
- > Used throughout industry and the automotive world - and as well in confined spaces
- > Torque acc. to DIN 3122, ISO 3315
- > Handle offset for barely accessible places
- > Reduces the risk of injury to the fingers when working on flat surfaces
- > Small, drop shaped head for confined areas
- > Fine-toothed (60 teeth), with lever change and push-button release
- > Return angle 6 degrees
- > Non-slip 2-component handle with hanging hole
- > For hand-operated sockets and accessories with square drive as per DIN 3120 - C 12.5, ISO 1174, ball locking device
- > GEDORE vanadium steel 31CrV3, chrome-plated



"	mm	°	mm	mm	kg	Code	No.
1/2	12.5	6	270	37.5	0.540	2746786	1993 U-20 G

### 1993 U-20 REVERSIBLE RATCHET 1/2"

- > Used throughout industry and the automotive world - and as well in confined spaces
- > Acc. to DIN 3122, ISO 3315
- > Small, drop shaped head for confined areas
- > Fine-toothed (60 teeth), with lever change and push-button release
- > Return angle 6 degrees
- > Non-slip 2-component handle with hanging hole
- > For hand-operated sockets and accessories with square drive as per DIN 3120 - C 12.5, ISO 1174, ball locking device
- > GEDORE vanadium steel 31CrV3, chrome-plated

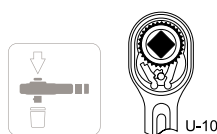


"	mm	°	mm	mm	kg	Code	No.
1/2	12.5	6	270	37.5	0.536	1436686	1993 U-20

### 1993 U-10 L REVERSIBLE RATCHET 1/2"

long pattern

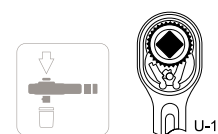
- > For an increase in torque, long design
- > Acc. to DIN 3122, ISO 3315
- > With recessed lever change
- > Push-button release
- > Return angle 7.5 degrees
- > Non-slip 2-component handle with hanging hole
- > Locks in the middle position: When the lever is flipped, it automatically engages for clockwise or anti-clockwise operation
- > For hand-operated sockets and accessories with square drive as per DIN 3120 - C 12.5, ISO 1174, ball locking device
- > GEDORE vanadium steel 31CrV3, chrome-plated



"	mm	°	mm	mm	kg	Code	No.
1/2	12.5	7,5	350	41	0.696	6154550	1993 U-10 L

### 1993 U-10 T REVERSIBLE RATCHET 1/2"

- > Particularly for the demanding use experienced in industry and with utility vehicles
- > Acc. to DIN 3122, ISO 3315
- > With recessed lever change
- > Push-button release
- > Return angle 7.5 degrees
- > Non-slip 2-component handle with hanging hole
- > Locks in the middle position: When the lever is flipped, it automatically engages for clockwise or anti-clockwise operation
- > For hand-operated sockets and accessories with square drive as per DIN 3120 - C 12.5, ISO 1174, ball locking device
- > GEDORE vanadium steel 31CrV3, chrome-plated



"	mm	°	mm	mm	kg	Code	No.
1/2	12.5	7,5	270	39	0.598	6142620	1993 U-10 T



## LIGHTWEIGHT POWER PACK WITH 100% PERFORMANCE!

- > Particularly suited for tiring overhead work!
- > Its low weight goes easy particularly on one's joints
- > Lightweight yet still of high-strength
- > As with all U-10 ratchets, a mechanism of steel for guaranteed torque transfer as per DIN 3122
- > Hot-drop forged
- > Tough and hard from complex thermal finishing of the aluminium/zinc/magnesium/copper alloy after the demanding forging process

### 1993 ALU-10 ALUMINIUM REVERSIBLE RATCHET 1/2"

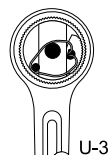
- > Very lightweight, especially for work done above your head
- > Design spec. similar to DIN 3122, ISO 3315
- > Made from special-purpose drop-forged and hardened aluminium
- > The mechanism as in all U-10 ratchets is made from high-quality steel
- > With recessed lever change
- > Push-button release
- > Return angle 7.5 degrees
- > Non-slip 2-component handle with hanging hole
- > Locks in the middle position: When the lever is flipped, it automatically engages for clockwise or anti-clockwise operation
- > For hand-operated sockets and accessories with square drive as per DIN 3120 - C 12.5, ISO 1174, ball locking device
- > Extremely lightweight - just 340 g



"	mm	°	mm	mm	kg	Code	No.
1/2	12.5	7,5	270	39	0.340	6142700	1993 ALU-10

### 1993 U-3 REVERSIBLE RATCHET 1/2"

- > Especially for working in confined spaces, as in the automotive business
- > Acc. to DIN 3122, ISO 3315
- > With non-slip metal disc change, fine-toothed (72 teeth) and robust
- > Return angle 5 degrees
- > Non-slip 2-component handle with hanging hole
- > For hand-operated sockets and accessories with square drive as per DIN 3120 - C 12.5, ISO 1174, ball locking device
- > GEDORE vanadium steel 31CrV3, chrome-plated



"	mm	°	mm	mm	kg	Code	No.
1/2	12.5	5	270	40.5	0.476	6144240	1993 U-3

### 1993 GU-3 SWIVEL HEAD REVERSIBLE RATCHET 1/2"

- > Especially for use in the automotive sector
- > Swivels through 180°, with joint lock
- > With non-slip metal disc change, fine-toothed (72 teeth) and robust
- > Return angle 5 degrees
- > Non-slip 2-component handle with hanging hole
- > Max. torque 300 N-m
- > For hand-operated sockets and accessories with square drive as per DIN 3120 - C 12.5, ISO 1174, ball locking device
- > GEDORE vanadium steel 31CrV3, chrome-plated



"	mm	°	mm	mm	kg	Code	No.
1/2	12.5	5	282	40.5	0.535	6144320	1993 GU-3

# 1993 GU-10 XL SWIVEL HEAD REVERSIBLE RATCHET 1/2"

extra long

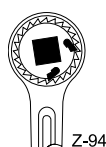
- > Extra long design
- > Ideal for the truck and/or industrial vehicle sectors
- > Swivels through 180°
- > With recessed lever change
- > Push-button release
- > Return angle 7.5 degrees
- > Non-slip 2-component handle with hanging hole
- > Especially suitable for high torques, max. torque 600 N-m
- > Locks in the middle position: When the lever is flipped, it automatically engages for clockwise or anti-clockwise operation
- > For hand-operated sockets and accessories with square drive as per DIN 3120 - C 12.5, ISO 1174, ball locking device
- > GEDORE vanadium steel 31CrV3, chrome-plated



"	mm	°	mm	kg	Code	No.
1/2	12.5	7,5	600	1.160	2018934	1993 GU-10 XL

# 1993 Z-94 RATCHET HANDLE WITH COUPLER 1/2"

- > Used throughout industry and the automotive world
- > Acc. to DIN 3122, ISO 3315
- > With square coupler, medium-fine toothed, extremely rugged
- > Return angle 7.5 degrees
- > Non-slip 2-component handle with hanging hole
- > For hand-operated sockets and accessories with square drive as per DIN 3120 - C 12.5, ISO 1174 ball locking device
- > GEDORE vanadium steel 31CrV3, chrome-plated



# 1993 U-10 K PLASTIC RATCHET 1/2"

- > For fast and easy tightening of bolted connections up to max. 70 N-m
- > Very handy and compact, housing and handle form one unit
- > Return angle 7.5 degrees
- > Made from sturdy compound material with a steel mechanism
- > Dimensions: 44 x 145 x 42.2 mm



"	mm	°	mm	mm	kg	Code	No.
1/2	12.5	7,5	270	21.9	0.476	6144590	1993 Z-94
1/2	12.5	7,5	145	42.2	0.226	6242760	1993 U-10 K SCHWARZ

Sockets 12.5 (1/2")

19  
SOCKET 1/2"

hexagon UD profile

- > Acc. to DIN 3124, ISO 2725-1
- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated
- \* not standardised



Ø mm	L	d <sub>1</sub>	d <sub>2</sub>	t	⌀ kg	Code	No.	
8	38.0	13.0	22.5	15.0	0.055	6130020	19 8	
9	*	38.0	14.2	22.5	15.0	0.056	6130100	19 9
10	38.0	15.5	22.5	13.5	0.056	6130290	19 10	
11	38.0	16.7	22.5	12.5	0.058	6130370	19 11	
12	38.0	18.0	22.5	12.5	0.058	6130450	19 12	
13	38.0	19.2	22.5	12.5	0.061	6130530	19 13	
14	38.0	20.5	22.5	12.5	0.063	6130610	19 14	
15	39.5	21.7	23.8	15.0	0.074	6130880	19 15	
16	39.5	22.5	23.8	15.0	0.075	6130960	19 16	
17	39.5	24.0	22.5	15.0	0.074	6131180	19 17	
18	39.5	25.5	23.0	17.0	0.073	6131260	19 18	
19	40.0	26.7	24.2	17.0	0.085	6131340	19 19	
20	40.0	28.0	25.5	17.0	0.096	6131420	19 20	
21	41.5	29.2	26.0	18.5	0.106	6131500	19 21	

Ø mm	L	d <sub>1</sub>	d <sub>2</sub>	t	⌀ kg	Code	No.	
22	41.5	30.5	26.3	18.5	0.112	6131690	19 22	
23	*	41.5	31.7	27.5	18.5	0.122	6131770	19 23
24	41.5	33.0	28.0	18.5	0.132	6131850	19 24	
25	*	41.5	34.2	28.8	18.5	0.139	6131930	19 25
26	*	41.5	35.5	29.4	18.5	0.148	6132070	19 26
27	41.5	36.7	30.0	18.5	0.157	6132150	19 27	
28	*	43.0	38.0	30.5	20.0	0.168	6132230	19 28
29	*	43.0	39.2	31.2	20.0	0.181	6132310	19 29
30	43.0	40.5	32.5	20.5	0.193	6132580	19 30	
32	44.5	43.0	34.5	22.5	0.226	6132740	19 32	
33	*	44.5	44.2	36.0	22.5	0.226	2545306	19 33
34	44.5	45.5	37.0	22.5	0.259	6138270	19 34	
36	*	44.5	48.0	38.0	22.5	0.271	1718711	19 36

19 L  
SOCKET 1/2"

hexagon UD profile, long pattern

- > Acc. to DIN 3124, ISO 2725-1
- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove

- > Hand-operated, knurled grip
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated



Ø mm	L	d <sub>1</sub>	d <sub>2</sub>	t	⌀ kg	Code	No.
10	77.0	15.5	22.5	12.0	0.117	1718738	19 L 10
11	77.0	16.7	22.5	13.0	0.121	1718746	19 L 11
12	77.0	18.0	22.5	14.0	0.127	1718754	19 L 12
13	77.0	19.2	22.5	16.0	0.098	1718762	19 L 13
14	77.0	20.5	22.5	16.5	0.109	1718770	19 L 14
15	77.0	21.7	22.5	16.5	0.117	1718789	19 L 15
16	77.0	23.0	24.0	16.5	0.130	1718800	19 L 16
17	77.0	24.0	24.0	16.5	0.132	1718819	19 L 17
18	82.0	25.5	25.0	20.0	0.147	1718827	19 L 18
19	82.0	26.7	26.0	22.0	0.174	1718835	19 L 19
21	82.0	29.2	28.5	24.0	0.211	2300559	19 L 21
22	82.0	30.5	28.5	24.0	0.219	2300567	19 L 22
24	82.0	33.0	29.0	26.0	0.257	2300575	19 L 24
27	82.0	36.7	30.0	30.0	0.290	2300583	19 L 27
30	82.0	40.5	32.5	33.0	0.351	2300591	19 L 30

Ø mm	L	d <sub>1</sub>	d <sub>2</sub>	t	⌀ kg	Code	No.
32	82.0	43.0	34.5	36.0	0.387	2300605	19 L 32
34	82.0	45.5	36.5	37.0	0.432	2300613	19 L 34

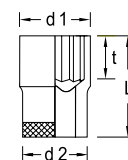




## D 19 (MM) SOCKET 1/2"

bi-hexagon UD profile

- > Acc. to DIN 3124, ISO 2725-1
  - > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
  - > Hand-operated, knurled grip
  - > GEDORE vanadium steel 31CrV3, polished, chrome-plated
- \* not standardised



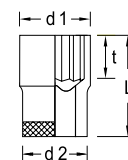
Ø mm	L	d <sub>1</sub>	d <sub>2</sub>	t	⚖	Code	No.
8	38.0	13.0	22.5	7.0	0.051	6133040	D 19 8
9	* 38.0	14.2	22.5	8.0	0.052	6133120	D 19 9
10	38.0	15.5	22.5	13.5	0.056	6133200	D 19 10
11	38.0	16.7	22.5	12.5	0.057	6133390	D 19 11
12	38.0	18.0	22.5	12.5	0.057	6133470	D 19 12
13	38.0	19.2	22.5	12.5	0.059	6133550	D 19 13
14	38.0	20.5	22.5	12.5	0.061	6133630	D 19 14
15	39.5	21.7	23.8	15.0	0.072	6133710	D 19 15
16	39.5	22.5	23.8	15.0	0.072	6133980	D 19 16
17	39.5	24.0	22.5	15.0	0.070	6134010	D 19 17
18	39.5	25.5	23.0	17.0	0.068	6134280	D 19 18
19	40.0	26.7	24.2	17.0	0.081	6134360	D 19 19
20	40.0	28.0	25.5	17.0	0.090	6134440	D 19 20
21	41.5	29.2	26.0	18.5	0.101	6134520	D 19 21

Ø mm	L	d <sub>1</sub>	d <sub>2</sub>	t	⚖	Code	No.
22	41.5	30.5	26.3	18.5	0.106	6134600	D 19 22
23	* 41.5	31.7	27.5	18.5	0.118	6134790	D 19 23
24	41.5	33.0	28.0	18.5	0.123	6134870	D 19 24
25	* 41.5	34.2	28.8	18.5	0.131	6134950	D 19 25
26	* 41.5	35.5	29.4	18.5	0.139	6135090	D 19 26
27	41.5	36.7	30.0	18.5	0.143	6135170	D 19 27
28	* 43.0	38.0	30.5	20.0	0.163	6135250	D 19 28
29	* 43.0	39.2	31.2	20.0	0.168	6135330	D 19 29
30	43.0	40.5	32.5	20.5	0.182	6135410	D 19 30
32	44.5	43.0	34.5	22.5	0.204	6135760	D 19 32
33	* 44.5	44.2	36.0	22.5	0.221	6135840	D 19 33
34	* 44.5	45.5	37.0	22.5	0.251	2545314	D 19 34
36	* 44.5	48.0	38.0	22.5	0.271	2194686	D 19 36

## D 19 (AF) SOCKET 1/2"

bi-hexagon UD profile

- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated



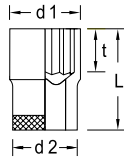
Ø AF	L	d <sub>1</sub>	d <sub>2</sub>	t	⚖	Code	No.
5/16	38.0	13.0	22.5	7.0	0.052	6136060	D 19 5/16AF
11/32	38.0	13.9	22.5	8.0	0.054	6136140	D 19 11/32AF
3/8	38.0	14.9	22.5	15.0	0.055	6136220	D 19 3/8AF
13/32	38.0	15.9	22.5	13.5	0.055	6136300	D 19 13/32AF
7/16	38.0	16.7	22.5	12.5	0.056	6136490	D 19 7/16AF
1/2	38.0	18.7	22.5	12.5	0.058	6136570	D 19 1/2AF
9/16	38.0	20.7	22.5	12.5	0.061	6136650	D 19 9/16AF
19/32	39.5	21.7	23.8	15.0	0.070	6136730	D 19 19/32AF
5/8	39.5	22.5	23.8	15.0	0.073	6136810	D 19 5/8AF
11/16	39.5	24.7	22.5	17.0	0.066	6137030	D 19 11/16AF
3/4	40.0	26.7	24.2	17.0	0.084	6137110	D 19 3/4AF
25/32	40.0	27.7	25.3	17.0	0.090	6137380	D 19 25/32AF
13/16	41.5	28.5	25.7	18.5	0.097	6137460	D 19 13/16AF
7/8	41.5	30.6	26.5	18.5	0.105	6137540	D 19 7/8AF
15/16	41.5	32.6	28.3	18.5	0.126	6137620	D 19 15/16AF

Ø AF	L	d <sub>1</sub>	d <sub>2</sub>	t	⚖	Code	No.
1	41.5	34.6	28.9	18.5	0.138	6137700	D 19 1AF
1.1/16	41.5	36.7	30.0	18.5	0.147	6137890	D 19 1.1/16AF
1.1/8	43.0	38.6	31.0	20.0	0.159	6137970	D 19 1.1/8AF
1.3/16	43.0	40.6	32.5	20.5	0.183	6138000	D 19 1.3/16AF
1.1/4	44.5	42.6	34.5	22.5	0.207	6138190	D 19 1.1/4AF

# D 19 (WW) SOCKET 1/2"

bi-hexagon

- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated

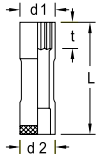


Whitw.	L	d <sub>1</sub>	d <sub>2</sub>	t	kg	Code	No.
3/16	38.0	17.0	22.5	12.5	0.054	6138780	D 19 3/16W
1/4	38.0	19.5	22.5	12.5	0.057	6138860	D 19 1/4W
5/16	39.5	21.9	23.8	15.0	0.069	6138940	D 19 5/16W
3/8	39.5	25.5	23.0	17.0	0.066	6139080	D 19 3/8W
7/16	41.5	28.8	26.0	18.5	0.096	6139160	D 19 7/16W
1/2	41.5	32.1	27.8	18.5	0.124	6139240	D 19 1/2W
9/16	41.5	34.9	29.2	18.5	0.137	6139320	D 19 9/16W
5/8	43.0	37.8	30.5	20.0	0.166	6139400	D 19 5/8W
11/16	43.0	41.0	33.0	20.5	0.184	6139590	D 19 11/16W
3/4	44.5	44.2	36.0	22.5	0.225	6138430	D 19 3/4W

# D 19 L (MM) SOCKET 1/2"

bi-hexagon UD profile, long pattern

- > Acc. to DIN 3124, ISO 2725-1
- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated
- > Sizes 16, 18, 21 mm with hole drilled for tommy bar Ø 8 mm



Ø mm	L	d <sub>1</sub>	d <sub>2</sub>	t	kg	Code	No.
10	77.0	15.5	22.5	12.0	0.117	6141140	D 19 L 10
12	77.0	18.0	22.5	14.0	0.127	6141220	D 19 L 12
13	77.0	19.2	22.5	16.0	0.101	6140170	D 19 L 13
14	77.0	20.5	22.5	16.5	0.109	6140250	D 19 L 14
15	77.0	21.7	22.5	16.5	0.119	6142460	D 19 L 15
16	77.0	23.0	24.0	16.5	0.128	6142540	D 19 L 16
17	77.0	24.0	24.0	16.5	0.133	6140330	D 19 L 17
18	82.0	25.5	25.0	20.0	0.147	6142380	D 19 L 18
19	82.0	26.7	26.0	22.0	0.175	6140410	D 19 L 19
21	82.0	29.2	28.5	24.0	0.211	6140680	D 19 L 21
22	82.0	30.5	28.5	24.0	0.219	6145050	D 19 L 22
24	82.0	33.0	29.0	26.0	0.257	6140760	D 19 L 24
27	82.0	36.7	30.0	30.0	0.290	6141060	D 19 L 27
30	82.0	40.5	32.5	33.0	0.351	6145640	D 19 L 30
32	82.0	43.0	34.5	36.0	0.387	6191320	D 19 L 32
34	82.0	45.5	36.5	37.0	0.432	6147500	D 19 L 34

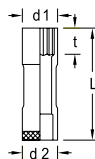
# D 19 L (AF) SOCKET 1/2"

bi-hexagon UD profile, long pattern

- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated



D 19 L 19



AF	L	d <sub>1</sub>	d <sub>2</sub>	t	kg	Code	No.
1/2	77.0	18.7	22.5	16.0	0.095	6141300	D 19 L 1/2AF
9/16	77.0	20.7	22.5	16.5	0.105	6141490	D 19 L 9/16AF
5/8	77.0	22.5	24.0	16.5	0.120	6141570	D 19 L 5/8AF
11/16	77.0	24.7	24.8	16.5	0.143	6141650	D 19 L 11/16AF
3/4	82.0	26.7	26.0	22.0	0.164	6141730	D 19 L 3/4AF
13/16	82.0	28.5	28.5	22.0	0.197	6141810	D 19 L 13/16AF
7/8	82.0	30.6	28.5	24.0	0.208	6142030	D 19 L 7/8AF
15/16	82.0	32.6	29.0	26.0	0.234	6142110	D 19 L 15/16AF

# TX 19 SOCKET 1/2"

for protruding TORX® head screws

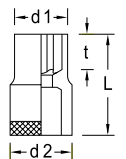
- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



TX 19 E10



TX 19 E18



TX	M	mm	L	d <sub>1</sub>	d <sub>2</sub>	t	kg	Code	No.
E10	M8	9,42	38.0	13.5	22.5	15.5	0.056	6145720	TX 19 E10
E11	-	10,08	38.0	14.0	22.5	15.5	0.055	6194180	TX 19 E11
E12	M10	11,17	38.0	15.5	22.5	15.5	0.059	6147340	TX 19 E12
E14	M12	12,90	38.0	17.0	22.5	13.0	0.059	6147420	TX 19 E14
E16	M12	14,76	38.0	19.0	22.5	13.0	0.062	6194420	TX 19 E16
E18	M14	16,70	40.0	21.0	24.5	14.0	0.078	6194500	TX 19 E18
E20	M16	18,45	40.0	23.5	24.5	14.0	0.085	6194690	TX 19 E20
E24	M18 - M20	22,16	41.5	28.5	26.0	16.0	0.116	6195070	TX 19 E24

# ITX 19

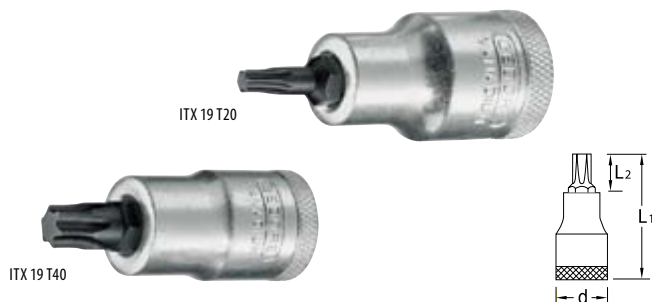
## SCREWDRIVER BIT SOCKET

### 1/2"

12.5  
1/2"

for recessed TORX® head screws

- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > Chrome-plated
- > With pressed-in pin in GEDORE vanadium special steel, gun-metal finish
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



⊕	M	mm	L <sub>1</sub>	L <sub>2</sub>	d	kg	Code	No.
T20	M4 - M5	3,86	55	17	22.5	0.076	6152930	ITX 19 T20
T25	M4,5 - M5	4,43	55	17	22.5	0.075	6154200	ITX 19 T25
T27	M4,5 - M6	4,99	55	17	22.5	0.076	6154630	ITX 19 T27
T30	M6 - M7	5,52	55	17	22.5	0.075	6156170	ITX 19 T30
T40	M7 - M8	6,65	55	17	22.5	0.076	6156330	ITX 19 T40
T45	M8 - M10	7,82	55	17	22.5	0.077	6157060	ITX 19 T45
T50	M10	8,83	55	17	22.5	0.092	6158030	ITX 19 T50
T55	M12	11,22	55	17	23.0	0.107	6158380	ITX 19 T55
T60	M14	13,25	55	15	24.7	0.137	6158540	ITX 19 T60

# ITX 19 L

## SCREWDRIVER BIT SOCKET

### 1/2"

12.5  
1/2"

for recessed TORX® head screws, long pattern

- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > Chrome-plated
- > With pressed-in pin in GEDORE vanadium special steel, gun-metal finish
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



⊕	M	mm	L <sub>1</sub>	L <sub>2</sub>	d	kg	Code	No.
T20	M4 - M5	3,86	100	62	22.5	0.095	6188020	ITX 19 L T20-100
T25	M4,5 - M5	4,43	100	62	22.5	0.095	6188100	ITX 19 L T25-100
T27	M4,5 - M6	4,99	100	62	22.5	0.096	6188370	ITX 19 L T27-100
T30	M6 - M7	5,52	100	62	22.5	0.096	6152500	ITX 19 L T30-100
T40	M7 - M8	6,65	100	62	22.5	0.096	6152690	ITX 19 L T40-100
T45	M8 - M10	7,82	100	62	22.5	0.098	6155870	ITX 19 L T45-100
T50	M10	8,83	100	62	22.5	0.124	6158700	ITX 19 L T50-100
T55	M12	11,22	100	62	23.0	0.151	6159940	ITX 19 L T55-100
T60	M14	13,25	100	60	24.7	0.197	6188450	ITX 19 L T60-100
T70	M16	15,55	100	60	28.0	0.277	6105180	ITX 19 L T70-100

# ITX 19 B

## SCREWDRIVER BIT SOCKET 1/2"

12.5  
1/2"

for recessed TORX® head screws with pilot

- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > Chrome-plated

- > With pressed-in pin in GEDORE vanadium special steel, gun-metal finish
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



⊕	M	mm	L <sub>1</sub>	L <sub>2</sub>	d	Bore mm	kg	Code	No.
T20	M4 - M5	3,86	55	17	22.5	1,55 x 1,86	0.075	6192720	ITX 19 BT20
T25	M4,5 - M5	4,43	55	17	22.5	1,93 x 2,04	0.075	6195660	ITX 19 BT25
T27	M4,5 - M6	4,99	55	17	22.5	2,18 x 2,29	0.076	6196390	ITX 19 BT27
T30	M6 - M7	5,52	55	17	22.5	2,56 x 2,92	0.076	6200170	ITX 19 BT30
T40	M7 - M8	6,65	55	17	22.5	2,92 x 3,28	0.091	6200410	ITX 19 BT40
T45	M8 - M10	7,82	55	17	22.5	3,45 x 3,68	0.092	6200840	ITX 19 BT45
T50	M10	8,83	55	17	23.0	3,83 x 3,78	0.105	6201300	ITX 19 BT50
T55	M12	11,22	55	15	24.7	4,85 x 4,79	0.133	6202700	ITX 19 BT55
T60	M14	13,25	56	16	28.0	5,63 x 7,87	0.182	6203270	ITX 19 BT60

### 1500 CT1-ITX 19 LKP

> 109



# IS 19

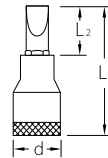
## SCREWDRIVER BIT SOCKET

### 1/2"

12.5  
1/2"

for slotted head screws

- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > Chrome-plated
- > With pressed-in pin in GEDORE vanadium special steel, manganese-phosphated
- > Blade as per DIN ISO 2380-1, Form B



mm	mm	L <sub>1</sub>	L <sub>2</sub>	d	kg	Code	No.
6.5	1.2	60	22	22.5	0.071	6161760	IS 19 6,5x1,2
8.0	1.2	60	22	22.5	0.080	6656060	IS 19 8x1,2
10.0	1.6	60	22	22.5	0.115	6656140	IS 19 10x1,6
12.0	2.0	60	22	23.0	0.110	6656220	IS 19 12x2
14.0	2.5	60	20	24.7	0.138	6162140	IS 19 14x2,5
16.0	2.5	60	20	28.0	0.190	6656490	IS 19 16x2,5
18.0	2.5	60	20	27.0	0.193	6656570	IS 19 18x2,5

# IKS 19

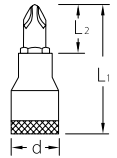
## SCREWDRIVER BIT SOCKET

### 1/2"

12.5  
1/2"

for cross-head screws PH

- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > Chrome-plated
- > With pressed-in pin in GEDORE vanadium special steel, gun-metal finish
- > Tip as per DIN ISO 8764-1 PH



PH	L <sub>1</sub>	L <sub>2</sub>	d	kg	Code	No.
2	60	22	22.5	0.077	6656650	IKS 19 2
3	60	22	22.5	0.092	6656730	IKS 19 3
4	60	22	23.0	0.106	6656810	IKS 19 4

# IKS 19 PZD

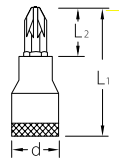
## SCREWDRIVER BIT SOCKET

### 1/2"

12.5  
1/2"

for cross-head screws Pozi PZ

- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > Chrome-plated
- > With pressed-in pin in GEDORE vanadium special steel, gun-metal finish
- > Tip as per DIN ISO 8764-1 PZ



PZ	L <sub>1</sub>	L <sub>2</sub>	d	kg	Code	No.
2	60	22	22.5	0.077	6156680	IKS 19 PZD 2
3	60	22	22.5	0.091	6156760	IKS 19 PZD 3
4	60	22	23.0	0.108	6156840	IKS 19 PZD 4

# IN 19 (MM)

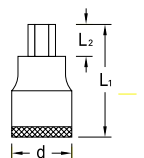
## SCREWDRIVER BIT SOCKET

### 1/2"

12.5  
1/2"

for in-hex screws

- > Acc. to DIN 7422
- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > Chrome-plated
- > With pressed-in pin in GEDORE vanadium special steel, manganese-phosphated
- > IN 19 17 for oil filter and drain plug screws
- \* not standardised



mm	L <sub>1</sub>	L <sub>2</sub>	d	kg	Code	No.
4	*	60	22	0.068	6153070	IN 19 4
5	*	60	22	0.069	6153150	IN 19 5
6		60	22	0.070	6153230	IN 19 6
7		60	22	0.075	6153310	IN 19 7
8		60	22	0.082	6153580	IN 19 8
9	*	60	22	0.091	6153660	IN 19 9
10		60	22	0.099	6153740	IN 19 10
12		60	22	0.113	6153820	IN 19 12
14		60	20	0.149	6153900	IN 19 14
17	*	60	20	0.210	6154040	IN 19 17
19	*	60	20	0.222	6154120	IN 19 19

VDE IN 19

>574



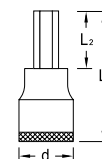
# IN 19 L

## SCREWDRIVER BIT SOCKET 1/2"

for in-hex screws, long pattern

- > Acc. to DIN 7422
- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > Chrome-plated

- > With pressed-in pin in GEDORE vanadium special steel, manganese-phosphated
- \* t = stepped hexagon bit 13 mm
- \* not standardised



mm	L <sub>1</sub>	L <sub>2</sub>	d	* t		Code	No.	
5	*	90	52	22.5	13	0.091	6162060	IN 19 L 5-90
5	*	180	142	22.5	13	0.131	6157140	IN 19 L 5-180
6		90	52	22.5		0.079	6157300	IN 19 L 6-90
6		140	102	22.5	13	0.115	6145800	IN 19 L 6-140
6		160	122	22.5	13	0.123	6145990	IN 19 L 6-160
7		100	62	22.5		0.089	6157570	IN 19 L 7-100
7	*	140	102	22.5			2950960	IN 19 L 7-140
8		90	52	22.5		0.095	6157730	IN 19 L 8-90

mm	L <sub>1</sub>	L <sub>2</sub>	d	* t		Code	No.	
8		120	82	22.5		0.109	6157810	IN 19 L 8-120
8	*	140	102	22.5			2951533	IN 19 L 8-140
9	*	140	102	22.5			2950979	IN 19 L 9-140
10		140	102	22.5		0.154	6158110	IN 19 L 10-140
12		140	102	23.0		0.195	6158460	IN 19 L 12-140
14		140	100	24.7		0.257	6158620	IN 19 L 14-140

# IN 19 (AF)

## SCREWDRIVER BIT SOCKET 1/2"

for in-hex screws

- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > Chrome-plated
- > With pressed-in pin in GEDORE vanadium special steel, manganese-phosphated

12.5  
1/2"

# IN 19 K

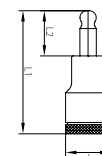
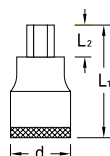
## SCREWDRIVER BIT SOCKET 1/2"

with ball end, for in-hex screws

- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > Chrome-plated
- > With pressed-in pin in GEDORE vanadium special steel, gun-metal finish
- > Total swivel angle approx. 15-20°

12.5  
1/2"

IN 19 1/2



AF	L <sub>1</sub>	L <sub>2</sub>	d		Code	No.
3/16	60	22	22.5	0.069	6154710	IN 19 3/16AF
7/32	60	22	22.5	0.069	6154980	IN 19 7/32AF
1/4	60	22	22.5	0.073	6155010	IN 19 1/4AF
9/32	60	22	22.5	0.076	6155280	IN 19 9/32AF
5/16	60	22	22.5	0.081	6155360	IN 19 5/16AF
3/8	60	22	22.5	0.098	6155440	IN 19 3/8AF
1/2	60	22	23.0	0.119	6155520	IN 19 1/2AF
9/16	60	20	24.7	0.150	6155600	IN 19 9/16AF
5/8	60	20	28.0	0.205	6155790	IN 19 5/8AF

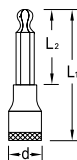
mm	L <sub>1</sub>	L <sub>2</sub>	d		Code	No.
6	60	22	22.5	0.068	2219336	IN 19 K 6
7	60	22	22.5	0.071	2219360	IN 19 K 7
8	60	22	22.5	0.080	2219379	IN 19 K 8
10	60	22	22.5	0.100	2219395	IN 19 K 10
12	60	20	23.0	0.190	1621513	IN 19 K 12
14	60	20	24.7	0.220	2663090	IN 19 K 14

## IN 19 LK SCREWDRIVER BIT SOCKET 1/2"

12.5  
1/2"

with ball end, for in-hex screws, long pattern

- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > Chrome-plated
- > With pressed-in pin in GEDORE vanadium special steel, gun-metal finish
- > Total swivel angle approx. 15-20°



mm	L <sub>1</sub>	L <sub>2</sub>	d	kg	Code	No.
6	140	102	22.5	0.091	6162810	IN 19 LK 6-140
7	140	102	22.5	0.103	6165080	IN 19 LK 7-140
8	140	102	22.5	0.116	6165160	IN 19 LK 8-140
10	140	102	22.5	0.153	6166800	IN 19 LK 10-140
12	140	102	23.0	0.195	6172370	IN 19 LK 12-140
14	140	100	24.7	0.225	1936328	IN 19 LK 14-140

## INR 19 L SCREWDRIVER BIT SOCKET 1/2"

12.5  
1/2"

for multi-spline screws RIBE®, long pattern

- > RIBE® = reg. trademark of Richard Bergner GmbH & Co. KG, Schwabach, Germany



INR 19 L 5-100



INR 19 L 14-100



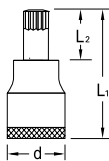
M	L <sub>1</sub>	L <sub>2</sub>	d	kg	Code	No.
M5	100	62	22.5	0.085	1449826	INR 19 L 5-100
M6	100	62	22.5	0.085	1449850	INR 19 L 6-100
M6	188	150	22.5	0.120	1450859	INR 19 L 6-188
M8	100	62	22.5	0.085	1449877	INR 19 L 8-100
M8	188	150	22.5	0.125	1450875	INR 19 L 8-188
M10	100	62	22.5	0.105	1449591	INR 19 L 10-100
M10	188	150	22.5	0.165	1450891	INR 19 L 10-188
M12	100	62	22.5	0.145	1398636	INR 19 L 12-100
M12	188	150	22.5	0.230	1450913	INR 19 L 12-188
M14	100	60	24.7	0.155	1449893	INR 19 L 14-100

## INX 19 SCREWDRIVER BIT SOCKET 1/2"

12.5  
1/2"

for multi-point screws XZN

- > Acc. to DIN 2324
- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > Chrome-plated
- > With pressed-in pin in GEDORE vanadium special steel, manganese-phosphated
- > Tip as per DIN 2325
- \* not standardised



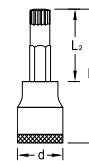
M	L <sub>1</sub>	L <sub>2</sub>	d	kg	Code	No.	
M5	*	55	17	22.5	0.075	6158890	INX 19 5
M6	*	55	17	22.5	0.076	6159000	INX 19 6
M8		55	17	22.5	0.077	6159270	INX 19 8
M10		55	17	22.5	0.094	6159430	INX 19 10
M12		55	17	23.0	0.110	6159780	INX 19 12
M14		57	17	24.7	0.140	1888943	INX 19 14
M16	*	60	20	24.7		2950944	INX 19 16
M18	*	60	20	24.7		2950952	INX 19 18

## INX 19 L SCREWDRIVER BIT SOCKET 1/2"

12.5  
1/2"

for multi-point screws XZN, long pattern

- > Acc. to DIN 2324
- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- > Hand-operated, knurled grip
- > Chrome-plated
- > With pressed-in pin in GEDORE vanadium special steel, manganese-phosphated
- > Tip as per DIN 2325
- \* not standardised



M	L <sub>1</sub>	L <sub>2</sub>	d	kg	Code	No.	
M6	*	100	62	22.5	0.093	6159190	INX 19 L 6-100
M8		100	62	22.5	0.097	6159350	INX 19 L 8-100
M10		100	62	22.5	0.124	6159510	INX 19 L 10-100
M12		100	62	23.0	0.149	6159860	INX 19 L 12-100
M14		100	60	24.7	0.110	1888951	INX 19 L 14-100

## Accessories 12.5 (1/2")

### 1985 SPEED BRACE 1/2"

- > Acc. to DIN 3122, ISO 3315
- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated



"	mm	mm	kg	Code	No.
1/2	12.5	395	0.619	6143350	1985

### 1998 SWIVEL HANDLE WITH SLIDING T 1/2"

- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- > GEDORE vanadium steel 31CrV3, chrome-plated, polished



"	mm	mm	kg	Code	No.
1/2	12.5	460	0.747	6199730	1998

### 1996 - 1997 SWIVEL HANDLE 1/2"

- > Acc. to DIN 3122, ISO 3315
- > Non-slip 2-component handle with hanging hole
- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- > GEDORE vanadium steel 31CrV3, chrome-plated, polished



1996



1997

"	mm	mm	kg	Code	No.
1/2	12.5	255	0.426	6144830	1996

"	mm	mm	kg	Code	No.
1/2	12.5	381	0.593	6144910	1997

### 1987 SLIDING T BAR 1/2"

- > Acc. to DIN 3122, ISO 3315
- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated



"	mm	mm	kg	Code	No.
1/2	12.5	292	0.386	6143430	1987

### 1981 K L-HANDLE 1/2"

- > Acc. to DIN 3122, ISO 3315
- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated



"	mm	mm	kg	Code	No.
1/2	12.5	220	0.267	6143270	1981 K

## 1987 A SLIDING T BAR WITH RELEASE 1/2"

- > Secured against unintentional removal
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated
- > Turn handle for easy locking and releasing
- > Accidental release when working is prevented because of the asymmetrical release point
- > Particularly useful for work in sensitive areas where certainty against loss is a theme
- > Examples: Aircraft engine, work in deep machine bodies
- > DBGM (German utility patent)



1/2"	12.5	292	0.375	Code	No.
				1871641	1987 A

## 1990 EXTENSION 1/2"

- > Acc. to DIN 3123, ISO 3316
- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- > GEDORE vanadium steel 31CrV3, chrome-plated
- \* not standardised



1990-2.1/2



1990-3



1990-5



1990-7



1990-10

1/2"	12.5	*	63	0.115	Code	No.
					6143510	1990-2.1/2
			76	0.137	6143780	1990-3
			125	0.188	6143860	1990-5

1/2"	12.5	*	180	0.264	Code	No.
					6142890	1990-7
			250	0.361	6143940	1990-10
			305	0.411	6129950	1990-12

## 1990 A EXTENSION 1/2"

with release

- > Easy access to deep-fitting screws
- > Locking ring prevents unintentional release of the socket
- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device



1990 A-5



1990 A-10



1/2"	12.5	125	0.216	Code	No.
				1640828	1990 A-5

1/2"	12.5	250	0.386	Code	No.
				1640801	1990 A-10

## 1990 KR UNIVERSAL EXTENSION 1/2"

- > With ball end
- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- > The extension is able to pivot up to 15°
- > Load capacity max. 230 N-m
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated



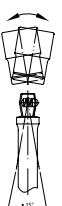
1990 KR-5



1990 KR-7



1990 KR-10



1/2"	12.5	125	0.180	Code	No.
				6173180	1990 KR-5
		180	0.255	6225590	1990 KR-7

1/2"	12.5	250	0.345	Code	No.
				6366570	1990 KR-10



## 1990 M EXTENSION 1/2"

with magnet

- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- > The holding magnet securely fixes the screws or nuts in the socket
- > One-hand operation - using the socket the screw or nut can be immediately screwed in
- > Thanks to a spring mechanism the holding magnet is always in direct contact with the screw head. It ensures that the screw is centrally guided
- > A strong permanent magnet keeps hold of even large screws
- > Makes work easier particularly in confined spaces
- > Hot forged
- > GEDORE vanadium steel 31CrV3, polished



EISEN 2014  
INNOVATION-AWARD



"	"	mm	kg	Code	No.
1/2	12.5	81.5	0.110	2697920	1990 M

## 1995 UNIVERSAL JOINT 1/2"

- > Acc. to DIN 3123, ISO 3316
- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- > GEDORE vanadium steel 31CrV3, chrome-plated, polished



"	"	"	"	mm	kg	Code	No.
1/2	12.5	1/2	12.5	72	0.159	6144750	1995

## 1930 REDUCER 1/2" TO 3/8"

- > Acc. to DIN 3123, ISO 3316
- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated



"	"	"	"	mm	kg	Code	No.
1/2	12.5	3/8	10	38.5	0.062	6143000	1930

## 1994 COUPLER 1/2"

- > Acc. to DIN 3122, ISO 3315
- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- > GEDORE vanadium steel 31CrV3, chrome-plated, polished



"	"	mm	kg	Code	No.
1/2	12.5	38	0.045	6144670	1994

## 1932 CONVERTOR 1/2" TO 3/4"

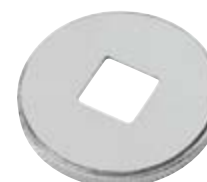
- > Acc. to DIN 3123, ISO 3316
- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- > GEDORE vanadium steel 31CrV3, polished, chrome-plated



"	"	"	"	mm	kg	Code	No.
1/2	12.5	3/4	20	44	0.128	6143190	1932

## 1940 HIGH-SPEED SWIVEL DISC for 1/2" ratchets

- > For 12.5 mm (1/2") ratchets
- > Tightens loose screws with a flick of the wrist
- > Easy assembly between release head and socket
- > Speeds up the screwing process



"	"	kg	Code	No.
1/2	12.5	0.014	1640887	1940



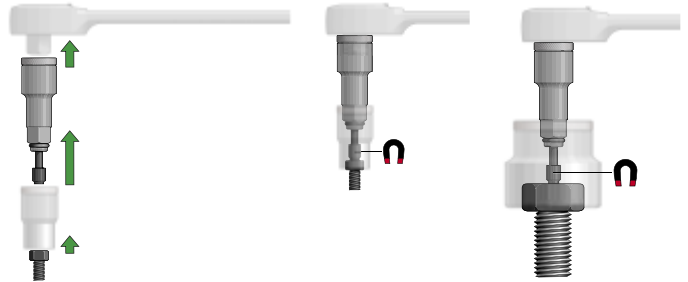
# 1990 M UNIVERSAL EXTENSION WITH MAGNETIC EFFECT



### Your advantage:

- > Secure fixing even of large screws
- > One-handed operation Using the socket, the screw can be immediately screwed in
- > Powerful magnet with spring mechanism ensures centric screw guidance.
- > Makes work easier particularly in confined spaces

> The essentially plain-looking universal extension in combination, for instance, with the right sockets and socket drivers is transformed into our secret star.



# SL 19 TOOL HOLDING RAIL, MAGNETIC 1/2"

empty

- > External squares to take 12 or 16 standard commercial 12.5 mm (1/2") sockets
- > Two female square adaptors to take ratchets, sliding T bars, extensions etc.
- > A strong magnet securely holds the socket rail to ferrous metals
- > Additional holes are provided for wall mounting the socket rail or attaching to non-ferrous materials
- > The sockets are securely locked by the ball at the square-drive end by turning them 90°

- > It is a simple matter to "unlock" and remove the sockets, by turning them 90° in the opposing direction
- > Delivery without tools



Execution	↳ mm	mm	kg	Code	No.
for 12 pieces 1/2" sockets	480	33	0.481	1828665	SL 1912
for 16 pieces 1/2" sockets	580	33	0.522	1761102	SL 1916

# VH 19 SPRING STEEL SOCKET RAIL 1/2"



- > For 14 1/2" sockets
- > Delivery without tools



↳ mm	kg	Code	No.
405	0.065	5162520	VH 19

## VDE 1990

>574



## VDE 1988 / VDE 1989 T

>574



## 20 (3/4") square drive

20 20

## Sets 20 (3/4") METRIC

20 3/4

32 EM / D 32 EM  
SOCKET SET 3/4"

14 pieces

- > With forged, tempered hexagon (no.32) or UD profile sockets (no. D 32), hand-operated
- > With accessories made from GEDORE vanadium steel 31CrV3
- > Set U-2 with fine toothed, dial change ratchet
- > Set Z-94 with ratchet with square coupler
- > In GEDORE blue sheet steel case
- > Dimensions: 525 x 203 x 73 mm

20  
3/4"  
mm

Ratchet	Sockets	Accessories	mm	Code	No.
⊙ Z-94 <b>3293 Z-94</b>	⊙ 32 22 24 27 30 32 36 38 41 46 50	⚙️ <b>3287</b> ⚙️ <b>3290-8 -16</b>	11.4	6280180	32 EMZ
⊙ U-2 <b>3293 U-2</b>	⊙ 32 22 24 27 30 32 36 38 41 46 50	⚙️ <b>3287</b> ⚙️ <b>3290-8 -16</b>	11.6	6280340	32 EMU-2
⊙ Z-94 <b>3293 Z-94</b>	⊙ D 32 22 24 27 30 32 36 38 41 46 50	⚙️ <b>3287</b> ⚙️ <b>3290-8 -16</b>	11.2	6280260	D 32 EMZ
⊙ U-2 <b>3293 U-2</b>	⊙ D 32 22 24 27 30 32 36 38 41 46 50	⚙️ <b>3287</b> ⚙️ <b>3290-8 -16</b>	11.1	6280420	D 32 EMU-2

32 FM / D 32 FM  
SOCKET SET 3/4"

16 pieces

- > With forged, tempered hexagon, bi-hexagon (no.32) or UD profile sockets (no. D 32), hand-operated
- > With accessories made from GEDORE vanadium steel 31CrV3
- > Set U-2 with fine toothed, dial change ratchet
- > Set Z-94 with ratchet with square coupler
- > In GEDORE blue sheet steel case
- > Dimensions: 555 x 230 x 80 mm

20  
3/4"  
mm

Ratchet	Sockets	Accessories	mm	Code	No.
⊙ Z-94 <b>3293 Z-94</b>	⊙ 32 22 24 27 30 32 36 38 41 46 50 55 60	⚙️ <b>3287</b> ⚙️ <b>3290-8 -16</b>	15.6	6280930	32 FMZ
⊙ U-2 <b>3293 U-2</b>	⊙ 32 22 24 27 30 32 36 38 41 46 50 55 60	⚙️ <b>3287</b> ⚙️ <b>3290-8 -16</b>	15.8	6281150	32 FMU-2
⊙ Z-94 <b>3293 Z-94</b>	⊙ D 32 22 24 27 30 32 36 38 41 46 50 55 60	⚙️ <b>3287</b> ⚙️ <b>3290-8 -16</b>	15.1	6281070	D 32 FMZ
⊙ U-2 <b>3293 U-2</b>	⊙ D 32 22 24 27 30 32 36 38 41 46 50 55 60	⚙️ <b>3287</b> ⚙️ <b>3290-8 -16</b>	15.2	6281230	D 32 FMU-2

## Sets 20 (3/4") INCH

### D 32 EA SOCKET SET 3/4"

14 pieces

- > With forged, tempered bi-hexagon UD profile sockets, hand-operated
- > With accessories made from GEDORE vanadium steel 31CrV3
- > Set U-2 with fine toothed, dial change ratchet
- > Set Z-94 with ratchet with square coupler
- > In GEDORE blue sheet steel case
- > Dimensions: 525 x 203 x 73 mm



20  
3/4"  
"AF"

Ratchet	Sockets	Accessories	kg	Code	No.
Z-94 <b>3293 Z-94</b>	<b>D 32</b> 15/16 1.1/16 1.1/8 1.1/4 1.5/16 1.3/8 1.1/2 1.5/8 1.7/8 2"	<b>3287</b> <b>3290-8 -16</b>	11.3	6280500	D 32 EAZ
U-2 <b>3293 U-2</b>	<b>D 32</b> 15/16 1.1/16 1.1/8 1.1/4 1.5/16 1.3/8 1.1/2 1.5/8 1.7/8 2"	<b>3287</b> <b>3290-8 -16</b>	11.3	6280690	D 32 EAU-2

### D 32 EMAU-2 SOCKET SET 3/4"

25 pieces

- > With forged, tempered bi-hexagon UD profile sockets, hand-operated
- > With accessories made from GEDORE vanadium steel 31CrV3
- > With fine toothed, dial change ratchet
- > In GEDORE blue sheet steel case
- > Dimensions: 660 x 230 x 80 mm



20  
3/4"  
mm  
"AF"

Ratchet	Sockets	Accessories	kg	Code	No.
U-2 <b>3293 U-2</b>	<b>D 32</b> 22 24 27 30 32 36 41 46 50 <b>D 32</b> 7/8 15/16 1" 1.1/16 1.1/8 1.1/4 1.5/16 1.3/8 1.1/2 1.11/16 1.7/8 2"	<b>3287</b> <b>3290-8 -16</b>	18.2	6281310	D 32 EMAU-2

## ... CUSTOMISED FOR YOU!

#### Individual – precise – customised – flexible – right on!

- > From non-standard sizes, special surface treatment (colour and/or finish), customised tool modules through to special electronic product programming and establishing/implementing individual maintenance intervals (calibration/services) - and a lot more besides.

- > **WE** develop special tools, customised tools and/or quality forgings **for YOU**.
- > Your problems are our assignments.
- > Simply contact us !



## Ratchets 20 (3/4")

### 3293 U-10 REVERSIBLE RATCHET 3/4"

- > Particularly for the demanding use experienced in industry and with utility vehicles
- > Acc. to DIN 3122, ISO 3315
- > With recessed lever change, locks in middle position
- > Return angle 11.25 degrees

- > Push-fit tube handle
- > For hand-operated sockets and accessories with square drive as per DIN 3120 - D 20, ISO 1174 with locking pin
- > GEDORE vanadium steel 31CrV3, chrome-plated

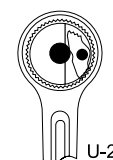


"	mm	°	mm	mm	kg	Code	No.
3/4	20	11,25	620	57.5	2.630	6277980	3293 U-10

### 3293 U-2 REVERSIBLE RATCHET 3/4"

- > Especially for working in confined spaces
- > Acc. to DIN 3122, ISO 3315
- > With disc change, fine-toothed and robust
- > Return angle 7.2 degrees

- > For hand-operated sockets and accessories with square drive as per DIN 3120 - D 20, ISO 1174 with locking pin
- > GEDORE vanadium steel 31CrV3, chrome-plated



"	mm	°	mm	mm	kg	Code	No.
3/4	20	7,2	510	60	1.435	6278600	3293 U-2

### 3293 U-3 REVERSIBLE RATCHET 3/4"

- > Especially for working in confined spaces, as in the automotive business and with utility vehicles
- > Acc. to DIN 3122, ISO 3315
- > With non-slip metal disc change, fine-toothed (72 teeth) and robust
- > Return angle 5 degrees
- > Push-fit tube handle

- > For hand-operated sockets and accessories with square drive as per DIN 3120 - D 20, ISO 1174, with locking pin
- > GEDORE vanadium steel 31CrV3, chrome-plated



"	mm	°	mm	mm	kg	Code	No.
3/4	20	5	620	62.5	2.610	6278790	3293 U-3

### 3293 Z-94 RATCHET HANDLE WITH COUPLER 3/4"

- > Used throughout industry and the automotive world
- > Acc. to DIN 3122, ISO 3315
- > With square coupler, medium-fine toothed, extremely rugged
- > Return angle 10 degrees

- > For hand-operated sockets and accessories with square drive as per DIN 3120 - D 20, ISO 1174 with locking pin
- > GEDORE vanadium steel 31CrV3, chrome-plated



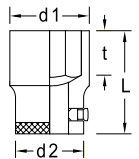
"	mm	°	mm	mm	kg	Code	No.
3/4	20	10	510	31	1.301	6278950	3293 Z-94

## Sockets 20 (3/4")

### 32 SOCKET 3/4"

hexagon UD profile

- > Acc. to DIN 3124, ISO 2725-1
  - > Square drive as per DIN 3120 - D 20, ISO 1174, with locking pin
  - > Hand-operated, knurled grip
  - > GEDORE vanadium steel 31CrV3, chrome-plated
- \* not standardised



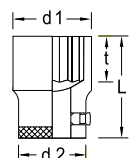
Ø mm	L	d <sub>1</sub>	d <sub>2</sub>	t		Code	No.	
18	*	51.5	28.3	36.0	19.0	0.219	6269880	32 18
19	*	51.5	29.6	36.0	19.0	0.225	6270110	32 19
21		51.5	32.0	36.0	19.0	0.228	6269960	32 21
22		51.5	33.3	36.0	19.0	0.232	6270380	32 22
24		51.5	35.8	38.0	19.5	0.267	6270460	32 24
27		54.5	39.6	36.0	24.0	0.271	6270540	32 27
29	*	54.5	42.0	36.0	23.5	0.281	6270620	32 29
30		57.5	43.3	38.0	26.0	0.331	6270700	32 30
32		57.5	45.8	38.0	27.0	0.345	6270890	32 32
33	*	57.5	47.0	40.0	26.5	0.392	6270030	32 33
34		57.5	48.3	40.0	26.5	0.404	6279410	32 34

Ø mm	L	d <sub>1</sub>	d <sub>2</sub>	t		Code	No.	
36		59.5	50.8	40.0	28.0	0.448	6270970	32 36
38	*	59.5	53.3	40.5	28.0	0.476	6271000	32 38
41		62.5	57.1	44.0	30.5	0.593	6271190	32 41
46		65.5	63.3	44.0	32.5	0.700	6271270	32 46
50		68.5	68.3	48.0	34.5	0.848	6271350	32 50
55		68.5	74.6	53.0	33.0	1.008	6271430	32 55
60		68.5	80.8	53.0	33.0	1.143	6271510	32 60

### D 32 (MM) SOCKET 3/4"

bi-hexagon UD profile

- > Acc. to DIN 3124, ISO 2725-1
  - > Square drive as per DIN 3120 - D 20, ISO 1174, with locking pin
  - > Hand-operated, knurled grip
  - > GEDORE vanadium steel 31CrV3, chrome-plated
- \* not standardised



Ø mm	L	d <sub>1</sub>	d <sub>2</sub>	t		Code	No.	
19	*	51.5	29.6	36.0	19.0	0.221	6272160	D 32 19
21		51.5	32.0	36.0	19.0	0.223	6289800	D 32 21
22		51.5	33.3	36.0	19.0	0.227	6272240	D 32 22
24		51.5	35.8	38.0	19.5	0.257	6272320	D 32 24
27		54.5	39.6	36.0	24.0	0.255	6272400	D 32 27
29	*	54.5	42.0	36.0	23.5	0.272	6272590	D 32 29
30		57.5	43.3	38.0	26.0	0.319	6272670	D 32 30
32		57.5	45.8	38.0	27.0	0.332	6272750	D 32 32
33	*	57.5	47.0	40.0	26.5	0.358	6277040	D 32 33
36		59.5	50.8	40.0	28.0	0.418	6272830	D 32 36

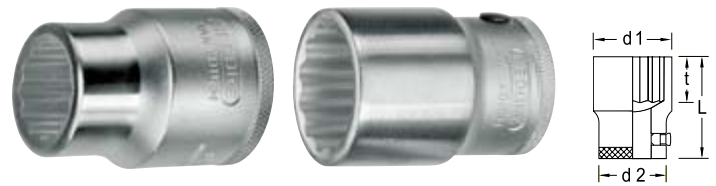
Ø mm	L	d <sub>1</sub>	d <sub>2</sub>	t		Code	No.	
38	*	59.5	53.3	40.5	28.0	0.441	6272910	D 32 38
41		62.5	57.1	44.0	30.5	0.558	6273050	D 32 41
46		65.5	63.3	44.0	32.5	0.641	6273130	D 32 46
50		68.5	68.3	48.0	34.5	0.800	6273210	D 32 50
55		68.5	74.6	53.0	33.0	0.961	6273480	D 32 55
60		68.5	80.8	53.0	33.0	1.052	6273560	D 32 60

# D 32 (AF) SOCKET 3/4"

bi-hexagon UD profile

- > Square drive as per DIN 3120 - D 20, ISO 1174, with locking pin
- > Hand-operated, knurled grip
- > GEDORE vanadium steel 31CrV3, chrome-plated

AF	L	d <sub>1</sub>	d <sub>2</sub>	t	kg	Code	No.
7/8	51.5	33.6	36.0	19.0	0.227	6274020	D 32 7/8AF
15/16	51.5	35.6	38.0	19.5	0.262	6274100	D 32 15/16AF
1	51.5	37.6	36.0	22.0	0.229	6274290	D 32 1AF
1.1/16	54.5	39.6	36.0	24.0	0.256	6274370	D 32 1.1/16AF
1.1/8	54.5	41.5	36.0	24.0	0.268	6274450	D 32 1.1/8AF
1.1/4	57.5	45.5	38.0	27.0	0.333	6274530	D 32 1.1/4AF
1.5/16	57.5	47.5	40.0	26.5	0.377	6274610	D 32 1.5/16AF
1.3/8	59.5	49.5	40.0	28.0	0.407	6274880	D 32 1.3/8AF

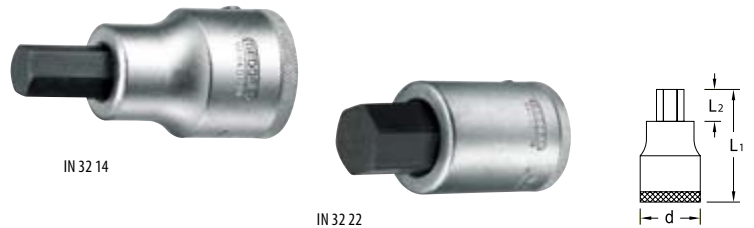


AF	L	d <sub>1</sub>	d <sub>2</sub>	t	kg	Code	No.
1.7/16	59.5	51.4	40.0	28.0	0.413	6274960	D 32 1.7/16AF
1.1/2	59.5	53.3	40.5	28.0	0.431	6275180	D 32 1.1/2AF
1.5/8	62.5	57.4	44.0	30.5	0.539	6275260	D 32 1.5/8AF
1.11/16	62.5	59.4	44.0	30.5	0.568	6275340	D 32 1.11/16AF
1.3/4	65.5	61.4	44.0	32.5	0.627	6275420	D 32 1.3/4AF
1.13/16	65.5	63.3	44.0	32.5	0.637	6275500	D 32 1.13/16AF
1.7/8	65.5	65.3	44.0	32.5	0.664	6275690	D 32 1.7/8AF
2	68.5	69.2	48.0	34.5	0.811	6275770	D 32 2AF

# IN 32 SCREWDRIVER BIT SOCKET 3/4"

for in-hex screws

- > Acc. to DIN 7422
- > Square drive as per DIN 3120 - D 20, ISO 1174, with locking pin
- > Hand-operated, knurled grip
- > Chrome-plated
- > With pressed-in pin in GEDORE vanadium special steel, manganese-phosphated



mm	L <sub>1</sub>	L <sub>2</sub>	d	kg	Code	No.
14	80	25.5	38	0.352	6275850	IN 32 14
17	80	25.5	38	0.394	6275930	IN 32 17

mm	L <sub>1</sub>	L <sub>2</sub>	d	kg	Code	No.
19	80	25.5	38	0.433	6276070	IN 32 19
22	80	25.5	38	0.482	6276150	IN 32 22

# IN 32 L SCREWDRIVER BIT SOCKET 3/4"

for in-hex screws, long pattern

- > Acc. to DIN 7422
- > Square drive as per DIN 3120 - D 20, ISO 1174, with locking pin
- > Hand-operated, knurled grip
- > Chrome-plated
- > With pressed-in pin in GEDORE vanadium special steel, manganese-phosphated



mm	L <sub>1</sub>	L <sub>2</sub>	d	kg	Code	No.
14	155	100	38	0.452	2003503	IN 32 L 14-155
17	155	100	38	0.540	1353705	IN 32 L 17-155
19	155	100	38	0.610	2003511	IN 32 L 19-155
22	155	100	38	0.730	2003538	IN 32 L 22-155

# ITX 32 SCREWDRIVER BIT SOCKET 3/4"

for recessed TORX® head screws

- > Square drive as per DIN 3120 - D 20, ISO 1174, with locking pin
- > Hand-operated, knurled grip
- > Chrome-plated
- > With pressed-in pin in GEDORE vanadium special steel, gun-metal finish
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



	M	mm	L <sub>1</sub>	L <sub>2</sub>	d	kg	Code	No.
T60	M14	13,25	80	25.5	38	0.346	6271780	ITX 32 T60
T70	M16	15,55	80	25.5	38	0.383	6272080	ITX 32 T70
T80	M18	17,58	80	25.5	38	0.416	6273640	ITX 32 T80
T90	M20	19,95	80	25.5	38	0.455	6276230	ITX 32 T90
T100	M22	21,16	80	25.5	38	0.461	6276310	ITX 32 T100

## Accessories 20 (3/4")

### 3296 SWIVEL HANDLE 3/4"

- > Acc. to DIN 3122, ISO 3315
- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with locking pin
- > GEDORE vanadium steel 31CrV3, chrome-plated



■ "	■	↳ mm	⚖ kg	Code	No.
3/4	20	547	1.965	6279250	3296

### 3287 SLIDING T BAR 3/4"

- > Acc. to DIN 3122, ISO 3315
- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with locking pin
- > GEDORE vanadium steel 31CrV3, chrome-plated



■ "	■	↳ mm	⚖ kg	Code	No.
3/4	20	500	1.161	6278360	3287

### 3290 EXTENSION 3/4"

- > Acc. to DIN 3123, ISO 3316
- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with locking pin
- > GEDORE vanadium steel 31CrV3, chrome-plated



3290-8



3290-16

■ "	■	↳ mm	⚖ kg	Code	No.	■ "	■	↳ mm	⚖ kg	Code	No.
3/4	20	200	0.574	6278440	3290-8	3/4	20	400	1.079	6278520	3290-16



## 3295 UNIVERSAL JOINT 3/4"

- > Acc. to DIN 3123, ISO 3316
- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with locking pin
- > GEDORE vanadium steel 31CrV3, chrome-plated



□"	■	□"	□	↳ mm	⚖ kg	Code	No.
3/4	20	3/4	20	108	0.580	6279170	3295

## 3294 COUPLER 3/4"

- > Acc. to DIN 3122, ISO 3315
- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with locking pin
- > Chrome-vanadium steel, chrome-plated



□"	■	↳ mm	⚖ kg	Code	No.
3/4	20	51.5	0.133	6279090	3294

## 3219 REDUCER 3/4" TO 1/2"

- > Acc. to DIN 3123, ISO 3316
- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with locking pin
- > GEDORE vanadium steel 31CrV3, chrome-plated



□"	□	■"	■	↳ mm	⚖ kg	Code	No.
3/4	20	1/2	12.5	56	0.168	6278010	3219

## 3221 CONVERTOR 3/4" TO 1"

- > Acc. to DIN 3123, ISO 3316
- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with locking pin
- > GEDORE vanadium steel 31CrV3, chrome-plated



□"	□	■"	■	↳ mm	⚖ kg	Code	No.
3/4	20	1	25	60	0.337	6278280	3221

### DVV-40ZRS

> 335



### DVI-20L / DVI-28L

> 339



## 25 (1") square drive

25 1" 25 1"

## Sets 25 (1") METRIC







25 1"

D 21 EMU-10  
SOCKET SET 1"

15 pieces

- > With forged, tempered UD profile sockets, hand-operated
- > With accessories made from GEDORE vanadium steel 31CrV3
- > With reversible lever change ratchet
- > In GEDORE blue sheet steel case
- > Dimensions: 765 x 289 x 105 mm

25  
1"  
mm

Ratchet	Sockets	Accessories		Code	No.
 U-10 K <b>2193 U-10 K</b>	 <b>D 21</b> 36 41 46 50 55 60 65 70 75 80	 <b>2190-8</b> -16  <b>2187 G</b>  <b>2187 K</b>	31.4	6181600	D 21 EMU-10







## Sets 25 (1") INCH

D 21 EAU-10  
SOCKET SET 1"

15 pieces

- > With forged, tempered UD profile sockets, hand-operated
- > With accessories made from GEDORE vanadium steel 31CrV3
- > With reversible lever change ratchet
- > In GEDORE blue sheet steel case
- > Dimensions: 765 x 289 x 105 mm

25  
1"  
"AF

Ratchet	Sockets	Accessories		Code	No.
 U-10 K <b>2193 U-10 K</b>	 <b>D 21</b> 1.1/2 1.5/8 1.7/8 2 2.1/16 2.1/4 2.3/8 2.9/16 2.3/4 3"	 <b>2190-8</b> -16  <b>2187 G</b>  <b>2187 K</b>	34.9	6181790	D 21 EAU-10

## Ratchets 25 (1")

2193 U-10  
REVERSIBLE RATCHET 1"

- › Particularly for the demanding use experienced in industry and with utility vehicles
- › Acc. to DIN 3122, ISO 3315
- › With recessed lever change, locks in middle position
- › Return angle 11.25 degrees

- › Push-fit bar handle no. 2187 G
- › For hand-operated sockets and accessories with square drive as per DIN 3120 - D 25, ISO 1174 with locking pin
- › GEDORE vanadium steel 31CrV3, chrome-plated

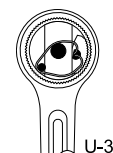


Execution	■ "	■	∠°	l- mm -l	mm∅	kg	Code	No.
<b>complete</b>	1	25	11,25	810	61.5	5.210	6180550	2193 U-10
<b>head only</b>	1	25		184	61.5	1.980	6196120	2193 U-10 K
<b>tommy bar</b>				700		3.275	6195900	2187 G

2193 U-3  
REVERSIBLE RATCHET 1"

- › Especially for working in confined spaces, as with utility vehicles
- › Acc. to DIN 3122, ISO 3315
- › With non-slip metal disc change, fine-toothed (72 teeth) and robust
- › Return angle 5 degrees

- › Push-fit tube handle
- › For hand-operated sockets and accessories with square drive as per DIN 3120 - D 25, ISO 1174, with locking pin
- › GEDORE vanadium steel 31CrV3, chrome-plated

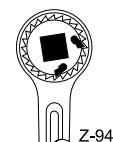


Execution	■ "	■	∠°	l- mm -l	mm∅	kg	Code	No.
<b>complete</b>	1	25	5	720	76	4.160	6180630	2193 U-3
<b>head only</b>	1	25				2.000	1637487	2193 U-3 K
<b>tube</b>						2.175	1382500	2193 Z/17

2193 Z-94  
RATCHET HANDLE WITH COUPLER 1"

- › Used throughout industry and the automotive world
- › Acc. to DIN 3122, ISO 3315
- › With square coupler, medium-fine toothed, extremely rugged
- › Return angle 9 degrees

- › Push-fit tube handle
- › For hand-operated sockets and accessories with square drive as per DIN 3120 - D 25, ISO 1174 with locking pin
- › GEDORE vanadium steel 31CrV3, chrome-plated



Execution	■ "	■	∠°	l- mm -l	mm∅	kg	Code	No.
<b>complete</b>	1	25	9	720	41	4.115	6181520	2193 Z-94
<b>head only</b>	1	25				1.175	1493779	2193 Z K
<b>tube</b>						2.175	1382500	2193 Z/17

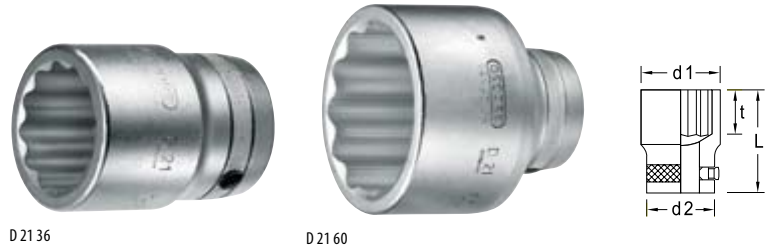
Sockets 25 (1")

D 21 (MM)  
SOCKET 1"

25  
1"

bi-hexagon UD profile

- > Acc. to DIN 3124, ISO 2725-1
- > Square drive as per DIN 3120 - D 25, ISO 1174, with locking pin
- > Hand-operated, knurled grip
- > GEDORE vanadium steel 31CrV3, chrome-plated
- \* not standardised



Ø mm	L	d <sub>1</sub>	d <sub>2</sub>	t		Code	No.
36	* 70.0	53.9	48.0	30.0	0.600	6174900	D 21 36
41	70.0	60.1	50.0	30.5	0.688	6175040	D 21 41
46	75.0	66.4	50.0	33.5	0.842	6175120	D 21 46
50	75.0	71.4	50.0	35.0	0.908	6175200	D 21 50
55	80.0	77.6	50.0	37.5	1.129	6175390	D 21 55

Ø mm	L	d <sub>1</sub>	d <sub>2</sub>	t		Code	No.
60	85.0	83.9	50.0	41.0	1.376	6175470	D 21 60
65	88.0	90.1	59.5	44.5	1.700	6175550	D 21 65
70	92.0	96.4	59.5	48.0	1.984	6175630	D 21 70
75	95.0	102.6	59.5	51.0	2.225	6175710	D 21 75
80	97.0	108.9	59.5	54.0	2.454	6175980	D 21 80

D 21 (AF)  
SOCKET 1"

25  
1"

bi-hexagon

- > Square drive as per DIN 3120 - D 25, ISO 1174, with locking pin
- > Hand-operated, knurled grip
- > GEDORE vanadium steel 31CrV3, chrome-plated



Ø"AF	L	d <sub>1</sub>	d <sub>2</sub>	t		Code	No.
1.1/2	70.0	56.5	48.0	30.0	0.649	6176520	D 21 1.1/2AF
1.5/8	70.0	60.1	50.0	30.5	0.701	6176600	D 21 1.5/8AF
1.13/16	75.0	66.4	50.0	33.5	0.835	6176870	D 21 1.13/16AF
1.7/8	75.0	68.4	50.0	33.5	0.890	6176950	D 21 1.7/8AF
2	75.0	72.4	50.0	35.0	0.944	6177090	D 21 2AF
2.1/16	75.0	74.0	50.0	35.0	0.987	6177170	D 21 2.1/16AF
2.3/16	80.0	78.3	50.0	37.5	1.181	6177250	D 21 2.3/16AF
2.1/4	80.0	80.3	50.0	37.5	1.230	6177330	D 21 2.1/4AF
2.3/8	85.0	83.9	50.0	41.0	1.398	6177410	D 21 2.3/8AF

Ø"AF	L	d <sub>1</sub>	d <sub>2</sub>	t		Code	No.
2.7/16	85.0	86.2	50.0	41.0	1.544	6177680	D 21 2.7/16AF
2.9/16	88.0	90.1	59.5	44.5	1.788	6177760	D 21 2.9/16AF
2.5/8	88.0	92.2	59.5	44.5	1.813	6177840	D 21 2.5/8AF
2.3/4	92.0	96.4	59.5	48.0	2.065	6177920	D 21 2.3/4AF
2.13/16	92.0	98.2	59.5	48.0	2.140	6178060	D 21 2.13/16AF
2.15/16	95.0	102.6	59.5	51.0	2.307	6178140	D 21 2.15/16AF
3	95.0	104.1	59.5	51.0	2.349	6178220	D 21 3AF
3.1/8	97.0	108.9	59.5	54.0	2.556	6178300	D 21 3.1/8AF

IN 21  
SCREWDRIVER BIT SOCKET 1"

25  
1"

for in-hex screws

- > Acc. to DIN 7422
- > Square drive as per DIN 3120 - D 25, ISO 1174, with locking pin
- > Hand-operated, knurled grip
- > Chrome-plated
- > With pressed-in pin in GEDORE vanadium special steel, manganese-phosphated
- \* not standardised



Ø mm	L <sub>1</sub>	L <sub>2</sub>	d		Code	No.
17	90	25.5	48	0.613	6181010	IN 21 17
19	90	25.5	48	0.676	6181280	IN 21 19
22	90	25.5	48	0.733	6181360	IN 21 22
24	90	25.5	48	0.784	6181440	IN 21 24
27	* 90	25.5	48	0.856	6200680	IN 21 27

K 21

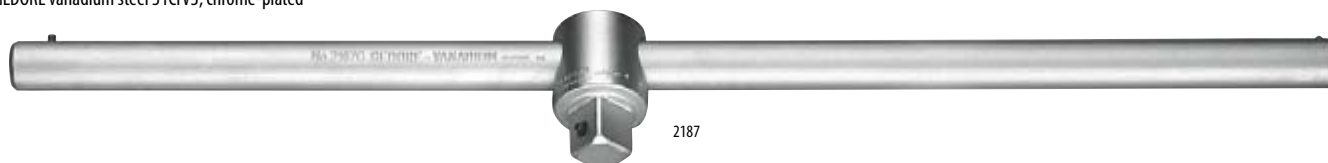
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## Accessories 25 (1")

2187  
SLIDING T BAR 1"

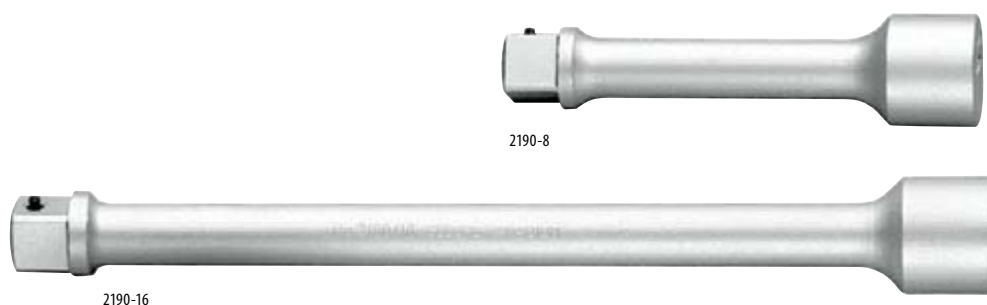
- > Acc. to DIN 3122, ISO 3315
- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with locking pin
- > GEDORE vanadium steel 31CrV3, chrome-plated



Execution	■"	■	↳ mm ↳	⚖	Code	No.
<b>complete</b>	1	25	700	3.955	6180120	2187
<b>drive piece</b>	1	25	80	0.680	6196040	2187 K
<b>tommy bar</b>			700	3.275	6195900	2187 G

2190  
EXTENSION 1"

- > Acc. to DIN 3123, ISO 3316
- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with locking pin
- > GEDORE vanadium steel 31CrV3, chrome-plated



■"	■	↳ mm ↳	⚖	Code	No.
1	25	200	1.182	6180200	2190-8
1	25	400	2.144	6180390	2190-16

2194  
COUPLER 1"

- > Acc. to DIN 3122, ISO 3315
- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with locking pin
- > GEDORE vanadium steel 31CrV3, chrome-plated



■"	■	↳ mm ↳	⚖	Code	No.
1	25	67.5	0.321	6180710	2194

2132  
REDUCER 1" TO 3/4"

- > Acc. to DIN 3123, ISO 3316
- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with locking pin
- > GEDORE vanadium steel 31CrV3, chrome-plated

2195  
UNIVERSAL JOINT 1"

- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with locking pin
- > GEDORE vanadium steel 31CrV3, chrome-plated



■"	■	□"	□	↳ mm ↳	⚖	Code	No.	□"	□	■"	■	↳ mm ↳	⚖	Code	No.
1	25	1	25	140	1.482	6180980	2195	1	25	3/4	20	75	0.504	6180040	2132

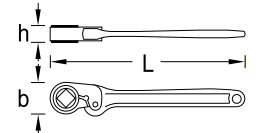
## Friction Type Ratchets

### 31 KR FRICTION TYPE RATCHET

with ring UD profile or bi-hexagon

- > Friction spanner (31 K) with exchangeable UD profile or bi-hexagon insert rings (31 R)
- > Hexagon rings are available on request
- > Especially in steel construction and scaffolding
- > Flat shaft up to 30", push-fit tube handle from 35"

- > GEDORE vanadium steel 31CrV3, manganese-phosphated
- > Explanation of the article number: 31 KR 16-32 = ratchet 31 K 16" and insert ring 31 R 32 mm



Ring	L	L"	h	b		Code	No.
<b>8</b>	150	6	11.5	23.0	0.093	6253020	31 KR 6-8
<b>10</b>	150	6	11.5	23.0	0.088	6253290	31 KR 6-10
<b>13</b>	150	6	11.5	23.0	0.082	6253530	31 KR 6-13
<b>15</b>	205	8	15.5	31.2	0.220	6253880	31 KR 8-15
<b>17</b>	205	8	15.5	31.2	0.212	6254180	31 KR 8-17
<b>19</b>	255	10	17.5	38.0	0.346	6254340	31 KR 10-19
<b>21</b>	255	10	17.5	38.0	0.336	6254500	31 KR 10-21
<b>22</b>	255	10	17.5	38.0	0.330	6254690	31 KR 10-22
<b>24</b>	305	12	18.5	44.6	0.497	6254850	31 KR 12-24
<b>26</b>	305	12	18.5	44.6	0.482	6255070	31 KR 12-26
<b>27</b>	305	12	18.5	44.6	0.474	6255150	31 KR 12-27
<b>28</b>	305	12	18.5	44.6	0.466	6255230	31 KR 12-28
<b>30</b>	400	16	19.5	51.6	0.709	6255580	31 KR 16-30

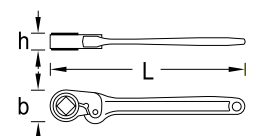
Ring	L	L"	h	b		Code	No.
<b>32</b>	400	16	19.5	51.6	0.684	6255740	31 KR 16-32
<b>36</b>	500	20	21.5	63.6	1.162	6256120	31 KR 20-36
<b>41</b>	500	20	21.5	63.6	1.098	6256470	31 KR 20-41
<b>46</b>	635	25	31.5	78.1	2.302	6256550	31 KR 25-46
<b>50</b>	635	25	31.5	78.1	2.213	6256630	31 KR 25-50
<b>55</b>	760	30	33.5	92.0	3.011	6256710	31 KR 30-55
<b>60</b>	760	30	33.5	92.0	2.879	6256980	31 KR 30-60
<b>65</b>	940	35	36.5	105.0	7.204	6257010	31 KR 35-65
<b>70</b>	940	35	36.5	105.0	7.023	6257280	31 KR 35-70
<b>75</b>	960	40	39.5	118.0	7.643	6257360	31 KR 40-75
<b>80</b>	960	40	39.5	118.0	7.392	6257440	31 KR 40-80

### 31 KVR FRICTION TYPE RATCHET

with square ring

- > Friction spanner (31 K) with exchangeable square insert rings (31 VR)
- > Especially in steel construction and scaffolding

- > GEDORE vanadium steel 31CrV3, manganese phosphated
- > Explanation of the article number: 31 KVR 8-12 = ratchet 31 K 8" and insert ring 31 VR 12 mm



Ring	L	L"	h	b		Code	No.
<b>8</b>	150	6	11.5	23.0	0.091	6266000	31 KVR 6-8
<b>9</b>	150	6	11.5	23.0	0.089	6266190	31 KVR 6-9
<b>10</b>	150	6	11.5	23.0	0.087	6266270	31 KVR 6-10
<b>12</b>	205	8	15.5	31.2	0.228	6266430	31 KVR 8-12

Ring	L	L"	h	b		Code	No.
<b>14</b>	205	8	15.5	31.2	0.221	6266780	31 KVR 8-14
<b>17</b>	255	10	17.5	38.0	0.353	6267080	31 KVR 10-17
<b>19</b>	255	10	17.5	38.0	0.346	6267240	31 KVR 10-19

# 31 K

## FRICION RATCHET HANDLE WITHOUT INSERT RING

- > Friction spanner for insert rings 31 R and 31 VR
- > Especially in steel construction and scaffolding
- > GEDORE vanadium steel 31CrV3, manganese-phosphated



Ring	Ring	L	L"	Head Ø	Weight	Code	No.
8-13	8-11	150	6	20	0.070	6243060	31 K 6
14-17	12-14	205	8	28	0.176	6243140	31 K 8
18-23	17-19	255	10	34	0.277	6243220	31 K 10
24-28		305	12	40	0.406	6243300	31 K 12
30-32		400	16	46	0.600	6243490	31 K 16
34-41		500	20	57	0.961	6243570	31 K 20

Ring	Ring	L	L"	Head Ø	Weight	Code	No.
46-50		635	25	70	1.880	6243650	31 K 25
55-60		760	30	82	2.435	6243730	31 K 30
65-70		940	35	96	6.305	6243810	31 K 35
75-80		960	40	108	6.480	6244030	31 K 40

# 31 R

## INSERT RING FOR FRICTION RATCHET

UD profile or bi-hexagon

- > GEDORE vanadium steel 31CrV3, manganese-phosphated



Ring	Ø	Weight	Code	No.
8	19.7	0.021	6245000	31 R 8
10	19.7	0.018	6245270	31 R 10
13	19.7	0.011	6245510	31 R 13
14	27.6	0.047	6245780	31 R 14
15	27.6	0.044	6245860	31 R 15
16	27.6	0.040	6245940	31 R 16
17	27.6	0.036	6246080	31 R 17
18	33.6	0.075	6246160	31 R 18
19	33.6	0.069	6246240	31 R 19
21	33.6	0.059	6246400	31 R 21
22	33.6	0.053	6246590	31 R 22
24	39.6	0.091	6246750	31 R 24
26	39.6	0.076	6246910	31 R 26
27	39.6	0.069	6247050	31 R 27

Ring	Ø	Weight	Code	No.
28	39.6	0.061	6247130	31 R 28
30	45.6	0.109	6247480	31 R 30
32	45.6	0.084	6247640	31 R 32
36	56.6	0.201	6248020	31 R 36
41	56.6	0.137	6248370	31 R 41
46	70.0	0.422	6248450	31 R 46
50	70.0	0.333	6248530	31 R 50
55	82.0	0.576	6248610	31 R 55
60	82.0	0.444	6248880	31 R 60
65	96.0	0.899	6248960	31 R 65
70	96.0	0.718	6249180	31 R 70
75	108.0	1.163	6249260	31 R 75
80	108.0	0.912	6249340	31 R 80

# 31 VR

## INSERT RING FOR FRICTION RATCHET

square

- > GEDORE vanadium steel 31CrV3, manganese-phosphated



Ring	Ø	Weight	Code	No.
8	19.7	0.021	6261200	31 VR 8
9	19.7	0.018	6261390	31 VR 9
10	19.7	0.017	6261470	31 VR 10
12	27.6	0.052	6261630	31 VR 12

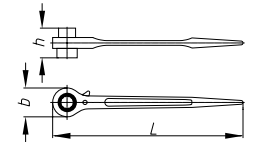
Ring	Ø	Weight	Code	No.
14	27.6	0.045	6261980	31 VR 14
17	33.6	0.076	6262360	31 VR 17
19	33.6	0.069	6262520	31 VR 19

# 29 CONSTRUCTION RATCHET

bi-hexagon

> Reversible ratchet with two different size heads, bi-hexagon and "rat-tail" handle

> Especially in steel construction and scaffolding

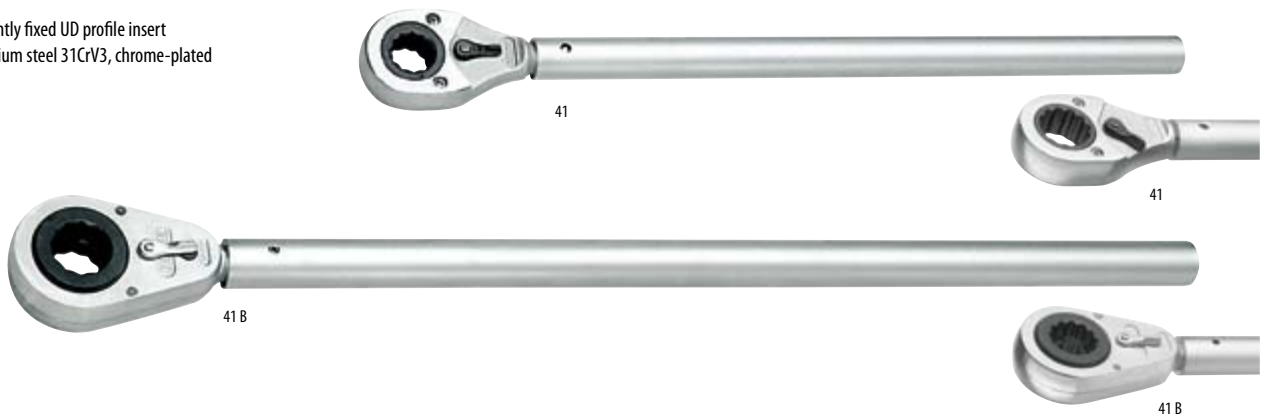


Ø	L	h	b	kg	Code	No.
<b>17 x 19</b>	315	49.0	42.0	0.463	1648934	29 17x19
<b>19 x 22</b>	315	49.5	42.0	0.448	1382853	29 19x22
<b>19 x 24</b>	365	56.0	51.5	0.757	1648926	29 19x24

Ø	L	h	b	kg	Code	No.
<b>24 x 30</b>	402	63.0	61.0	1.378	6262790	29 24x30
<b>27 x 32</b>	402	63.0	61.0	1.278	6262950	29 27x32
<b>36 x 41</b>	495	74.0	76.0	1.377	6263170	29 36x41

# 41 - 41 B REVERSIBLE LEVER CHANGE RATCHET

- > With permanently fixed UD profile insert
- > GEDORE vanadium steel 31CrV3, chrome-plated



Ø	∠°	mm	mm	kg	Code	No.
<b>22</b>	11,25	27.9	620	2.455	6338790	41 22
<b>24</b>	11,25	27.9	620	2.430	6338870	41 24
<b>27</b>	11,25	27.9	620	2.410	6338950	41 27
<b>28</b>	11,25	27.9	620	2.393	6330030	41 28
<b>30</b>	11,25	27.9	620	2.365	6339170	41 30

Ø	∠°	mm	mm	kg	Code	No.
<b>32</b>	11,25	27.9	620	2.330	6339250	41 32
<b>36</b>	15,00	43.0	910	5.025	6338360	41 B 36
<b>41</b>	15,00	43.0	910	4.895	6338440	41 B 41
<b>46</b>	15,00	43.0	910	4.725	6338520	41 B 46

# 41 V - 41 BV REVERSIBLE LEVER CHANGE RATCHET

- > With permanently fixed square insert
- > Especially in steel construction and scaffolding
- > GEDORE vanadium steel 31CrV3, chrome-plated



Ø	∠°	mm	mm	kg	Code	No.
<b>19</b>	11,25	27.9	620	2.475	6339410	41 V 19
<b>22</b>	11,25	27.9	620	2.450	6339680	41 V 22
<b>24</b>	11,25	27.9	620	2.420	6339760	41 V 24
<b>27</b>	11,25	27.9	620	2.385	6339840	41 V 27

Ø	∠°	mm	mm	kg	Code	No.
<b>30</b>	15,00	43.0	910	5.115	6338600	41 BV 30
<b>32</b>	15,00	43.0	910	5.075	6339330	41 BV 32
<b>36</b>	15,00	43.0	910	4.970	6339920	41 BV 36



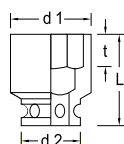
## Impact Tools

### 6.3 (1/4") square drive

## K 20 (MM) IMPACT SOCKET 1/4"

hexagon

- > Acc. to DIN 3129, ISO 2725-2
  - > Machine-operated, suitable for all standard electric and air tools
  - > Square drive as per DIN 3121 - G 6.3, ISO 1174
  - > GEDORE special steel, gun-metal finish
- \* not standardised

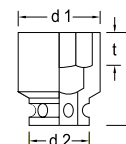


Ø mm	L	d <sub>1</sub>	d <sub>2</sub>	t	recommended accessories	⚖️	Code	No.
5.5	23	9.5	13	3	KB 2070, KB 2075	0.016	6198090	K 20 5,5
6.0	23	10.0	13	3	KB 2070, KB 2075	0.016	6198170	K 20 6
7.0	23	11.3	13	3	KB 2070, KB 2075	0.016	6198250	K 20 7
8.0	23	12.5	13	4	KB 2070, KB 2075	0.016	6198330	K 20 8
9.0	23	13.8	13	4	KB 2070, KB 2075	0.017	6198410	K 20 9
10.0	23	15.0	13	5	KB 2070, KB 2075	0.018	6198680	K 20 10
11.0	23	16.3	13	5	KB 2070, KB 2075	0.020	6198760	K 20 11
12.0	23	17.0	13	6	KB 2070, KB 2075	0.023	6198840	K 20 12
13.0	23	18.8	13	6	KB 2070, KB 2075	0.024	6198920	K 20 13
14.0	25	20.0	13	7	* KB 2070, KB 2075	0.035	6199060	K 20 14
17.0	26	23.8	13	7	* KB 2070, KB 2075	0.037	6199140	K 20 17

## K 20 (AF) IMPACT SOCKET 1/4"

hexagon

- > Machine-operated, suitable for all standard electric and air tools
- > Square drive as per DIN 3121 - G 6.3, ISO 1174
- > GEDORE special steel, gun-metal finish



Ø AF	L	d <sub>1</sub>	d <sub>2</sub>	t	recommended accessories	⚖️	Code	No.
3/16	23	8.5	13	3	KB 2070, KB 2075	0.015	6199220	K 20 3/16AF
1/4	23	10.3	13	3	KB 2070, KB 2075	0.017	6199300	K 20 1/4AF
5/16	23	12.5	13	3	KB 2070, KB 2075	0.016	6199490	K 20 5/16AF
3/8	23	15.0	13	4	KB 2070, KB 2075	0.018	6199570	K 20 3/8AF
7/16	23	16.3	13	6	KB 2070, KB 2075	0.021	6199650	K 20 7/16AF

## KB 2090 EXTENSION 1/4"

for impact sockets

- > With square drive as per DIN 3121 - G 6.3, ISO 1174
- > GEDORE special steel, gun-metal finish



1/4"	6.3	↳ mm	⚖️	Code	No.
		50	0.026	6201140	KB 2090-2

## KB 2070 - KB 2075 SAFETY RING AND SAFETY PIN

for impact sockets 1/4"



KB 2070



KB 2075

Description	Ø	↳ mm	⚖️	Code	No.
Safety ring d 9 mm	9.0	10	0.005	6200920	KB 2070
Safety pin d 1.5 mm	1.5	10	0.005	6201060	KB 2075

10 (3/8") square drive

# K 30

## IMPACT SOCKET 3/8"

hexagon

- > Acc. to DIN 3129, ISO 2725-2
- > Machine-operated, suitable for all standard electric and air tools
- > Square drive as per DIN 3121 - G 10, ISO 1174
- > GEDORE special steel, gun-metal finish
- \* not standardised



Ø mm	L	d <sub>1</sub>	d <sub>2</sub>	t	recommended accessories	kg	Code	No.
6	30	11.0	19	3.0	* KB 3070 6-12, KB 3075 6-12	0.045	6251160	K 30 6
7	30	12.5	19	3.0	KB 3070 6-12, KB 3075 6-12	0.046	6251240	K 30 7
8	30	14.5	19	4.0	KB 3070 6-12, KB 3075 6-12	0.046	6251320	K 30 8
9	30	15.0	19	4.0	KB 3070 6-12, KB 3075 6-12	0.046	6251400	K 30 9
10	30	16.0	19	5.0	KB 3070 6-12, KB 3075 6-12	0.046	6251590	K 30 10
11	30	17.5	19	5.0	KB 3070 6-12, KB 3075 6-12	0.046	6251670	K 30 11
12	30	19.0	19	6.0	KB 3070 6-12, KB 3075 6-12	0.046	6251750	K 30 12
13	30	19.0	22	6.0	KB 3070 13-24, KB 3075 13-24	0.063	6251830	K 30 13
14	30	21.0	22	7.0	KB 3070 13-24, KB 3075 13-24	0.063	6251910	K 30 14
15	30	22.0	22	7.0	KB 3070 13-24, KB 3075 13-24	0.062	6252050	K 30 15
16	30	24.0	22	8.0	KB 3070 13-24, KB 3075 13-24	0.066	6252130	K 30 16
17	30	25.0	22	9.0	KB 3070 13-24, KB 3075 13-24	0.068	6252210	K 30 17
18	30	26.0	22	9.0	KB 3070 13-24, KB 3075 13-24	0.075	6252480	K 30 18
19	30	27.5	22	9.5	KB 3070 13-24, KB 3075 13-24	0.076	6252560	K 30 19
20	30	28.0	22	10.0	* KB 3070 13-24, KB 3075 13-24	0.084	6252640	K 30 20
21	30	30.0	22	11.0	* KB 3070 13-24, KB 3075 13-24	0.089	6252720	K 30 21
22	30	32.0	23	11.0	* KB 3070 13-24, KB 3075 13-24	0.093	6252800	K 30 22
23	30	32.0	23	13.0	* KB 3070 13-24, KB 3075 13-24	0.095	6252990	K 30 23
24	30	35.0	23	13.0	* KB 3070 13-24, KB 3075 13-24	0.105	6254420	K 30 24

# TX K 30

## IMPACT SOCKET 3/8"

for protruding TORX® head screws

- > Machine-operated, suitable for all standard electric and air tools
- > Square drive as per DIN 3121 - G 10, ISO 1174
- > GEDORE special steel, gun-metal finish
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



Ø	M	mm	L	d <sub>1</sub>	d <sub>2</sub>	t	recommended accessories	kg	Code	No.
E5	M4	4,73	32	9.0	19	5	KB 3070 6-12, KB 3075 6-12	0.042	6265030	TX K 30 E5
E6	M5	5,74	32	10.0	19	5	KB 3070 6-12, KB 3075 6-12	0.044	6265110	TX K 30 E6
E7	M6	6,16	32	10.0	19	7	KB 3070 6-12, KB 3075 6-12	0.044	6265380	TX K 30 E7
E8	M6 - M7	7,52	32	10.5	19	8	KB 3070 6-12, KB 3075 6-12	0.048	6265460	TX K 30 E8
E10	M8	9,42	32	12.5	19	9	KB 3070 6-12, KB 3075 6-12	0.048	6265540	TX K 30 E10
E12	M10	11,17	32	15.0	19	10	KB 3070 6-12, KB 3075 6-12	0.047	6265620	TX K 30 E12
E14	M12	12,90	32	19.0	19	12	KB 3070 6-12, KB 3075 6-12	0.046	6265700	TX K 30 E14

## KB 3090 EXTENSION 3/8"

for impact sockets

- > With square drive as per DIN 3121 - G 10, ISO 1174
- > GEDORE special steel, manganese-phosphated



□"	■"	↳mm↳	⚖️	Code	No.
3/8	10	75	0.090	6261710	KB 3090-3
3/8	10	125	0.149	6262010	KB 3090-5
3/8	10	250	0.298	6262280	KB 3090-10

## KB 3095 UNIVERSAL JOINT 3/8"

for impact sockets

- > With square drive as per DIN 3121 - G 10, ISO 1174
- > GEDORE special steel, manganese-phosphated



□"	□	■"	■"	↳mm↳	⚖️	Code	No.
3/8	10	3/8	10	50	0.072	6262440	KB 3095

## KB 3019 CONVERTOR 3/8" TO 1/2"

for impact sockets

- > With square drive as per DIN 3121 - G 10, ISO 1174
- > GEDORE special steel, manganese-phosphated



□"	□	■"	■"	↳mm↳	⚖️	Code	No.
3/8	10	1/2	12.5	33	0.061	6263410	KB 3019

## KB 3020 REDUCER 3/8" TO 1/4"

for impact sockets

- > With square drive as per DIN 3121 - G 10, ISO 1174
- > GEDORE special steel, manganese-phosphated



□"	□	■"	■"	↳mm↳	⚖️	Code	No.
3/8	10	1/4	6.3	31	0.034	6263250	KB 3020

## KB 3070 - KB 3075 SAFETY RING AND SAFETY PIN

for impact sockets 3/8"



KB 3070



KB 3075

Description	∅	↳mm↳	⚖️	Code	No.
Safety ring d 14 mm	14.0		0.002	6260820	KB 3070 6-12
Safety ring d 15.5 mm	15.5		0.002	6260900	KB 3070 13-24
Safety pin d 2.5 mm	2.5	14	0.005	6261040	KB 3075 6-12
Safety pin d 2.5 mm	2.5	16	0.002	6261120	KB 3075 13-24

12.5 (1/2") square drive

**K 19-028**  
IMPACT SOCKET SET 1/2"

5 pieces

- > 5 impact sockets, machine-operated, suitable for all standard electric and air tools
- > Square drive as per DIN 3121 - G 12.5, ISO 1174
- > GEDORE special steel, gun-metal finish
- > In black plastic case



**K 19 LS-004**  
IMPACT SOCKET SET 1/2"

4 pieces

- > 4 impact sockets with protective sleeve, hexagon, long pattern
- > Machine-operated, suitable for all standard electric and air tools
- > Square drive as per DIN 3121 - G 12.5, ISO 1174
- > Thin-walled to protect the alloy wheels
- > GEDORE special steel, manganese-phosphated



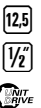
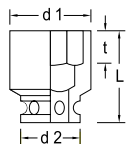
Sockets		Code	No.
○ 10 13 17 19 24	0.749	1646923	K 19-028

Sockets		Code	No.
○ <b>K 19 LS</b> 17 19 21 22	0.980	2790831	K 19 LS-004

**K 19 (MM)**  
IMPACT SOCKET 1/2"

hexagon

- > Acc. to DIN 3129, ISO 2725-2
- > Machine-operated, suitable for all standard electric and air tools
- > Square drive as per DIN 3121 - G 12.5, ISO 1174
- > GEDORE special steel, gun-metal finish
- \* not standardised

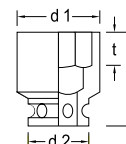


mm	L	d <sub>1</sub>	d <sub>2</sub>	t	recommended accessories		Code	No.
<b>10</b>	38	17.0	25	5.0	KB 1970 10-14, KB 1975 10-14	0.082	6160280	K 19 10
<b>11</b>	38	19.0	25	5.0	KB 1970 10-14, KB 1975 10-14	0.085	6160360	K 19 11
<b>12</b>	38	20.0	25	6.0	KB 1970 10-14, KB 1975 10-14	0.084	6160440	K 19 12
<b>13</b>	38	21.0	25	6.0	KB 1970 10-14, KB 1975 10-14	0.081	6160520	K 19 13
<b>14</b>	38	22.0	25	7.0	KB 1970 10-14, KB 1975 10-14	0.082	6160600	K 19 14
<b>15</b>	38	24.0	30	7.0	KB 1970 15-27, KB 1975 15-27	0.125	6161680	K 19 15
<b>16</b>	38	25.0	30	8.0	KB 1970 15-27, KB 1975 15-27	0.124	6160790	K 19 16
<b>17</b>	38	26.0	30	9.0	KB 1970 15-27, KB 1975 15-27	0.123	6160870	K 19 17
<b>18</b>	38	27.5	30	9.0	KB 1970 15-27, KB 1975 15-27	0.122	6160950	K 19 18
<b>19</b>	38	27.5	30	9.5	KB 1970 15-27, KB 1975 15-27	0.119	6161090	K 19 19
<b>21</b>	38	30.0	30	11.0	KB 1970 15-27, KB 1975 15-27	0.137	6161170	K 19 21
<b>22</b>	38	32.0	30	11.0	KB 1970 15-27, KB 1975 15-27	0.142	6161250	K 19 22
<b>23</b>	38	32.0	30	13.0	* KB 1970 15-27, KB 1975 15-27	0.148	6161330	K 19 23
<b>24</b>	45	35.0	30	13.0	KB 1970 15-27, KB 1975 15-27	0.154	6161410	K 19 24
<b>27</b>	50	38.0	30	13.0	KB 1970 15-27, KB 1975 15-27	0.180	6182680	K 19 27
<b>30</b>	50	41.0	30	16.0	* KB 1970 15-27, KB 1975 15-27	0.256	1560557	K 19 30
<b>32</b>	50	44.0	30	17.0	* KB 1970 15-27, KB 1975 15-27	0.286	1783742	K 19 32

# K 19 (AF) IMPACT SOCKET 1/2"

hexagon

- > Machine-operated, suitable for all standard electric and air tools
- > Square drive as per DIN 3121 - G 12.5, ISO 1174
- > GEDORE special steel, gun-metal finish

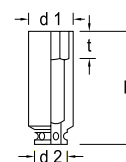


Ø"AF	L	d <sub>1</sub>	d <sub>2</sub>	t	recommended accessories	⚖️	Code	No.
<b>3/8</b>	38	16.0	25	4.0	KB 1970 10-14, KB 1975 10-14	0.079	6166990	K 19 3/8AF
<b>7/16</b>	38	18.0	25	6.0	KB 1970 10-14, KB 1975 10-14	0.079	6162300	K 19 7/16AF
<b>1/2</b>	38	20.0	25	6.0	KB 1970 10-14, KB 1975 10-14	0.078	6162650	K 19 1/2AF
<b>9/16</b>	38	22.0	25	7.0	KB 1970 10-14, KB 1975 10-14	0.080	6163030	K 19 9/16AF
<b>5/8</b>	38	25.0	25	8.0	KB 1970 15-27, KB 1975 15-27	0.121	6163460	K 19 5/8AF
<b>11/16</b>	38	25.0	25	9.0	KB 1970 15-27, KB 1975 15-27	0.121	6163700	K 19 11/16AF
<b>3/4</b>	38	27.5	30	9.5	KB 1970 15-27, KB 1975 15-27	0.115	6163970	K 19 3/4AF
<b>13/16</b>	38	30.0	30	11.0	KB 1970 15-27, KB 1975 15-27	0.131	6168420	K 19 13/16AF
<b>7/8</b>	38	32.0	30	13.0	KB 1970 15-27, KB 1975 15-27	0.141	6169820	K 19 7/8AF
<b>15/16</b>	38	35.0	30	13.0	KB 1970 15-27, KB 1975 15-27	0.156	6164190	K 19 15/16AF
<b>1</b>	38	35.0	30	13.0	KB 1970 15-27, KB 1975 15-27	0.169	6169900	K 19 1AF
<b>1.1/16</b>	50	38.0	30	13.0	KB 1970 15-27, KB 1975 15-27	0.173	6164350	K 19 1.1/16AF
<b>1.1/8</b>	40	38.0	30	16.5	KB 1970 15-27, KB 1975 15-27	0.180	6164510	K 19 1.1/8AF
<b>1.1/4</b>	40	44.0	35	17.0	KB 1970 15-27, KB 1975 15-27	0.284	6165240	K 19 1.1/4AF
<b>1.5/16</b>	43	45.0	35	19.0	KB 1970 15-27, KB 1975 15-27	0.296	6165320	K 19 1.5/16AF

# K 19 L IMPACT SOCKET 1/2"

hexagon, long pattern

- > Machine-operated, suitable for all standard electric and air tools
- > Square drive as per DIN 3121 - G 12.5, ISO 1174
- > GEDORE special steel, manganese-phosphated



Ømm	L	d <sub>1</sub>	d <sub>2</sub>	t	recommended accessories	⚖️	Code	No.
<b>8</b>	77	15.3	25	12	KB 1970 10-14, KB 1975 10-14	0.124	6163110	K 19 L 8
<b>10</b>	77	17.8	25	12	KB 1970 10-14, KB 1975 10-14	0.140	6163380	K 19 L 10
<b>13</b>	77	21.5	25	13	KB 1970 10-14, KB 1975 10-14	0.158	6163540	K 19 L 13
<b>14</b>	77	22.8	25	13	KB 1970 10-14, KB 1975 10-14	0.171	6163620	K 19 L 14
<b>16</b>	77	24.0	30	14	KB 1970 15-27, KB 1975 15-27	0.208	6197790	K 19 L 16
<b>17</b>	80	26.5	30	15	KB 1970 15-27, KB 1975 15-27	0.230	6163890	K 19 L 17
<b>18</b>	82	27.8	30	15	KB 1970 15-27, KB 1975 15-27	0.255	6197870	K 19 L 18
<b>19</b>	82	29.0	30	17	KB 1970 15-27, KB 1975 15-27	0.265	6164000	K 19 L 19
<b>21</b>	82	31.5	30	17	KB 1970 15-27, KB 1975 15-27	0.306	6162730	K 19 L 21
<b>22</b>	82	32.8	30	19	KB 1970 15-27, KB 1975 15-27	0.318	6164270	K 19 L 22
<b>23</b>	82	34.0	30	19	KB 1970 15-27, KB 1975 15-27	0.328	6199810	K 19 L 23
<b>24</b>	82	35.3	30	21	KB 1970 15-27, KB 1975 15-27	0.358	6164430	K 19 L 24
<b>27</b>	82	39.0	30	22	KB 1970 15-27, KB 1975 15-27	0.396	6164780	K 19 L 27

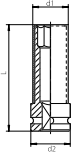
# K 19 LS

## IMPACT SOCKET 1/2" WITH PROTECTIVE SLEEVE

12.5  
1/2"

hexagon, long pattern

- > Machine-operated, suitable for all standard electric and air tools
- > Square drive as per DIN 3121 - G 12.5, ISO 1174
- > Thin-walled to protect the alloy wheels
- > GEDORE special steel, manganese-phosphated



Ø mm	Colour	RAL	L	d <sub>1</sub>	d <sub>2</sub>	t	recommended accessories	kg	Code	No.
17	Traffic blue	5017	81	27.0	30	15	KB 1970 15-27, KB 1975 15-27	0.200	2178214	K 19 LS 17
19	Traffic green	6024	82	29.0	30	17	KB 1970 15-27, KB 1975 15-27	0.210	2178222	K 19 LS 19
21	Traffic red	3020	82	30.5	30	17	KB 1970 15-27, KB 1975 15-27	0.230	2178230	K 19 LS 21
22	Traffic yellow	1023	82	32.3	30	19	KB 1970 15-27, KB 1975 15-27	0.260	2178249	K 19 LS 22

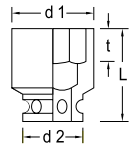
# KR 19

## IMPACT SOCKET 1/2"

12.5  
1/2"

hexagon, for cars

- > Suitable for all standard electric and air tools
- > GEDORE special steel, gun-metal finish
- > Square drive as per DIN 3121 - G 12.5, ISO 1174



Ø mm	L	d <sub>1</sub>	d <sub>2</sub>	t	recommended accessories	kg	Code	No.
17	38	30	30	14	KB 1970 15-27, KB 1975 15-27	0.174	6162490	KR 19 17
19	38	33	30	18	KB 1970 15-27, KB 1975 15-27	0.186	6162570	KR 19 19

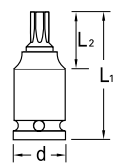
# ITX K 19

## IMPACT SCREWDRIVER BIT SOCKET 1/2"

12.5  
1/2"

for recessed TORX® head screws

- > Square drive as per DIN 3121 - G 12.5, ISO 1174
- > GEDORE special steel, manganese-phosphated
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



Ø	M	mm	L <sub>1</sub>	L <sub>2</sub>	d	recommended accessories	kg	Code	No.
T30	M6 - M7	5,52	47	26	25	KB 1970 10-14, KB 1975 10-14	0.075	6197280	ITX K 19 T30
T40	M7 - M8	6,65	47	26	25	KB 1970 10-14, KB 1975 10-14	0.077	6197360	ITX K 19 T40
T45	M8 - M10	7,82	47	26	25	KB 1970 10-14, KB 1975 10-14	0.078	1603124	ITX K 19 T45
T50	M10	8,83	47	26	25	KB 1970 10-14, KB 1975 10-14	0.079	6197440	ITX K 19 T50
T55	M12	11,22	47	26	25	KB 1970 10-14, KB 1975 10-14	0.084	6197520	ITX K 19 T55
T60	M14	13,25	47	26	25	KB 1970 10-14, KB 1975 10-14	0.088	6197600	ITX K 19 T60

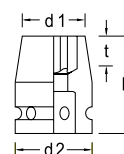


# TX K 19

## IMPACT SOCKET 1/2"

for protruding TORX® head screws

- > Machine-operated, suitable for all standard electric and air tools
- > Square drive as per DIN 3121 - G 12.5, ISO 1174
- > GEDORE special steel, gun-metal finish
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



⊗	▣ M	★ mm	L	d <sub>1</sub>	d <sub>2</sub>	t	recommended accessories	⚖ kg	Code	No.
E10	M8	9,42	38	15.0	25	9	KB 1970 10-14, KB 1975 10-14	0.084	6223110	TX K 19 E10
E12	M10	11,17	38	16.0	25	10	KB 1970 10-14, KB 1975 10-14	0.085	6223380	TX K 19 E12
E14	M12	12,90	38	18.5	25	12	KB 1970 10-14, KB 1975 10-14	0.086	6223460	TX K 19 E14
E16	M12	14,76	38	20.0	25	12	KB 1970 10-14, KB 1975 10-14	0.088	6223540	TX K 19 E16
E18	M14	16,70	38	22.0	25	12	KB 1970 10-14, KB 1975 10-14	0.087	6223620	TX K 19 E18
E20	M16	18,45	38	25.0	30	13	KB 1970 15-27, KB 1975 15-27	0.140	6223700	TX K 19 E20
E24	M18 - M20	22,16	45	28.5	30	17	KB 1970 15-27, KB 1975 15-27	0.137	6223890	TX K 19 E24

# IN K 19

## IMPACT SCREWDRIVER BIT SOCKET 1/2"

for in-hex screws

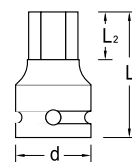
- > Suitable for all standard electric and air tools
- > Square drive as per DIN 3121 - G 12.5, ISO 1174
- > GEDORE special steel, manganese-phosphated



IN K 19 5



IN K 19 17



● mm	L <sub>1</sub>	L <sub>2</sub>	d	recommended accessories	⚖ kg	Code	No.
5	44	7.5	25	KB 1970 10-14, KB 1975 10-14	0.073	6223970	IN K 19 5
6	44	9.0	25	KB 1970 10-14, KB 1975 10-14	0.072	6224000	IN K 19 6
8	44	11.0	25	KB 1970 10-14, KB 1975 10-14	0.077	6224190	IN K 19 8
10	44	13.0	25	KB 1970 10-14, KB 1975 10-14	0.079	6224270	IN K 19 10
12	50	15.0	30	KB 1970 15-27, KB 1975 15-27	0.136	6224350	IN K 19 12
14	50	17.0	30	KB 1970 15-27, KB 1975 15-27	0.144	6225320	IN K 19 14
17	50	19.0	30	KB 1970 15-27, KB 1975 15-27	0.157	6225670	IN K 19 17

## KB 1930 REDUCER 1/2" TO 3/8"

for impact sockets

- > With square drive as per DIN 3121 - G 12.5, Form F, G, and H
- > GEDORE special steel, manganese-phosphated



1/2"	12.5	3/8"	10	↳ mm	↳ kg	Code	No.
1/2	12.5	3/8	10	44	0.081	6650370	KB 1930

## KB 1932 CONVERTOR 1/2" TO 3/4"

for impact sockets

- > With square drive as per DIN 3121 - G 12.5, Form F, G, and H
- > GEDORE special steel, manganese-phosphated



1/2"	12.5	3/4"	20	↳ mm	↳ kg	Code	No.
1/2	12.5	3/4	20	44	0.146	6650020	KB 1932

## KB 1990 EXTENSION 1/2"

for impact sockets

- > With square drive as per DIN 3121 - G 12.5, ISO 1174 Form F, G, and H
- > GEDORE special steel, manganese-phosphated



KB 1990-5



KB 1990-10

1/2"	12.5	↳ mm	↳ kg	Code	No.
1/2	12.5	125	0.256	6655250	KB 1990-5
1/2	12.5	250	0.461	6650100	KB 1990-10

## KB 1995 UNIVERSAL JOINT 1/2"

for impact sockets

- > With square drive as per DIN 3121 - G 12.5, Form F, G, and H
- > GEDORE special steel, manganese-phosphated



1/2"	12.5	1/2"	12.5	↳ mm	↳ kg	Code	No.
1/2	12.5	1/2	12.5	62	0.202	6655410	KB 1995

## KB 1970 - KB 1975 SAFETY RING AND SAFETY PIN

for impact sockets 1/2"



KB 1970



KB 1975

Description	∅	↳ mm	↳ kg	Code	No.
<b>Safety ring d 19 mm</b>	19		0.002	6654790	KB 1970 10-14
<b>Safety ring d 24 mm</b>	24		0.002	6654870	KB 1970 15-27
<b>Safety pin d 3 mm</b>	3	20	0.002	6654950	KB 1975 10-14
<b>Safety pin d 3 mm</b>	3	25	0.002	6655090	KB 1975 15-27



20 (3/4") square drive

# K 32-040

## IMPACT SOCKET SET 3/4" FOR TRUCKS

20  
3/4"

4 pieces

- > 4 sockets, machine-operated, suitable for all standard electric and air tools
- > Square drive as per DIN 3121 - H 20, ISO 1174
- > GEDORE special steel, gun-metal finish
- > In black plastic case



Sockets		Code	No.
○ 24 27 30 33	1.630	1828142	K 32-040

# K 32 S

## IMPACT SOCKET 3/4" WITH IMPACT-FIX LOCK

hexagon UD profile

- > Acc. to DIN 3129, ISO 2725-2
- > Machine-operated, suitable for all standard electric and air tools
- > Square drive as per DIN 3121 - H 20, ISO 1174
- > GEDORE vanadium steel 59CrV4
- > Gun-metal finish
- > DBGM (German utility patent)
- > Particularly suitable for working in sensitive areas permanently governed by certainty against loss, process reliability and occupational safety
- > Examples: overhead power line construction, wind power plants or the automotive sector

20  
3/4"

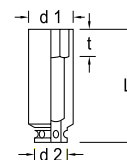
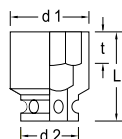
# K 32 SL

## IMPACT SOCKET 3/4" WITH IMPACT-FIX LOCK

hexagon UD profile, long pattern

- > Machine-operated, suitable for all standard electric and air tools
- > Square drive as per DIN 3121 - H 20, ISO 1174
- > GEDORE vanadium steel 59CrV4
- > Gun-metal finish
- > DBGM (German utility patent)
- > Particularly suitable for working in sensitive areas permanently governed by certainty against loss, process reliability and occupational safety
- > Examples: overhead power line construction, wind power plants or the automotive sector

20  
3/4"



○ mm	L	d <sub>1</sub>	d <sub>2</sub>	t		Code	No.
17	45	31.1	44	7.0	0.400	2734060	K 32 S 17
18	45	32.4	44	8.4	0.420	2734079	K 32 S 18
19	45	33.6	44	8.4	0.400	2734095	K 32 S 19
22	46	37.4	44	9.8	0.400	2734176	K 32 S 22
24	46	39.9	44	11.2	0.340	2734184	K 32 S 24
27	48	43.6	44	12.6	0.400	2734206	K 32 S 27
30	52	47.4	44	14.0	0.400	2734214	K 32 S 30
32	52	49.9	44	15.4	0.400	2734230	K 32 S 32
33	54	51.0	44	15.4	0.400	2734257	K 32 S 33
34	54	52.4	44	15.4	0.400	2734265	K 32 S 34
36	56	54.9	44	16.8	0.500	2734273	K 32 S 36
38	59	57.0	44	16.8	0.500	2734281	K 32 S 38
41	59	61.1	44	18.9	0.560	2734303	K 32 S 41

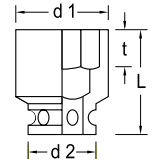
○ mm	L	d <sub>1</sub>	d <sub>2</sub>	t		Code	No.
17	90	31.1	44	7.0	0.560	2734311	K 32 SL 17
19	90	32.4	44	8.4	0.600	2734338	K 32 SL 19
21	90	36.1	44	9.8	0.600	2734346	K 32 SL 21
22	90	37.4	44	9.8	0.620	2734354	K 32 SL 22
24	90	39.9	44	11.2	0.620	2734362	K 32 SL 24
27	90	43.6	44	12.6	0.600	2734370	K 32 SL 27
30	90	47.4	44	14.0	0.600	2734389	K 32 SL 30
32	90	49.9	44	15.4	0.700	2734397	K 32 SL 32
33	90	51.0	44	15.4	0.800	2734400	K 32 SL 33
34	90	52.4	44	15.4	0.800	2734419	K 32 SL 34
36	90	54.9	44	16.8	0.800	2734427	K 32 SL 36
41	90	61.1	44	18.9	0.980	2734435	K 32 SL 41

# K 32 (MM)

## IMPACT SOCKET 3/4"

hexagon

- > Acc. to DIN 3129, ISO 2725-2
- > Machine-operated, suitable for all standard electric and air tools
- > Square drive as per DIN 3121 - H 20, ISO 1174
- > GEDORE special steel, gun-metal finish
- \* not standardised



Ø mm	L	d <sub>1</sub>	d <sub>2</sub>	t	recommended accessories	🏋️	Code	No.
17	50	29	44	9.0	KB 3270, KB 3275	0.300	6282040	K 32 17
18	50	32	44	9.0	KB 3270, KB 3275	0.300	6289990	K 32 18
19	50	32	44	9.5	KB 3270, KB 3275	0.293	6282120	K 32 19
22	50	38	44	11.0	KB 3270, KB 3275	0.345	6282200	K 32 22
24	50	40	44	13.0	KB 3270, KB 3275	0.339	6282390	K 32 24
27	54	41	44	13.0	KB 3270, KB 3275	0.339	6282470	K 32 27
30	54	44	44	16.5	KB 3270, KB 3275	0.352	6282550	K 32 30

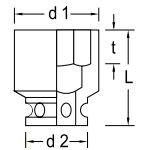
Ø mm	L	d <sub>1</sub>	d <sub>2</sub>	t	recommended accessories	🏋️	Code	No.
32	56	49	44	17.0	KB 3270, KB 3275	0.407	6282630	K 32 32
33	56	49	44	17.0	* KB 3270, KB 3275	0.430	6283010	K 32 33 (3/4W)
34	56	52	44	19.0	KB 3270, KB 3275	0.475	6281580	K 32 34
36	56	52	44	19.0	KB 3270, KB 3275	0.444	6282710	K 32 36
38	58	54	44	22.0	* KB 3270, KB 3275	0.481	6281740	K 32 38
41	58	57	44	22.0	KB 3270, KB 3275	0.500	6282980	K 32 41

# K 32 (AF)

## IMPACT SOCKET 3/4"

hexagon

- > Machine-operated, suitable for all standard electric and air tools
- > Square drive as per DIN 3121 - H 20, ISO 1174
- > GEDORE special steel, gun-metal finish



Ø "AF	L	d <sub>1</sub>	d <sub>2</sub>	t	recommended accessories	🏋️	Code	No.
13/16	46	35	44	11.0	KB 3270, KB 3275	0.349	6285300	K 32 13/16AF
7/8	46	38	44	13.0	KB 3270, KB 3275	0.354	6284410	K 32 7/8AF
15/16	46	40	44	13.0	KB 3270, KB 3275	0.342	6284680	K 32 15/16AF
1	46	41	44	13.0	KB 3270, KB 3275	0.340	6285490	K 32 1AF
1.1/16	48	41	44	13.0	KB 3270, KB 3275	0.347	6285650	K 32 1.1/16AF
1.1/8	52	44	44	16.5	KB 3270, KB 3275	0.367	6284760	K 32 1.1/8AF
1.1/4	52	49	44	17.0	KB 3270, KB 3275	0.418	6284840	K 32 1.1/4AF
1.5/16	55	49	44	19.0	KB 3270, KB 3275	0.417	6284920	K 32 1.5/16AF

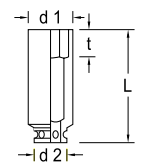
Ø "AF	L	d <sub>1</sub>	d <sub>2</sub>	t	recommended accessories	🏋️	Code	No.
1.3/8	55	52	44	19.0	KB 3270, KB 3275	0.452	6285730	K 32 1.3/8AF
1.7/16	56	52	44	19.0	KB 3270, KB 3275	0.439	6285060	K 32 1.7/16AF
1.1/2	59	54	44	22.0	KB 3270, KB 3275	0.480	6285140	K 32 1.1/2AF
1.5/8	59	57	44	22.0	KB 3270, KB 3275	0.497	6285810	K 32 1.5/8AF
1.11/16	64	63	44	25.0	KB 3270, KB 3275	0.674	6286030	K 32 1.11/16AF
1.3/4	64	63	44	25.5	KB 3270, KB 3275	0.639	6286110	K 32 1.3/4AF
1.7/8	67	67	54	27.0	KB 3270, KB 3275	0.873	6286380	K 32 1.7/8AF
2	67	73	54	27.0	KB 3270, KB 3275	0.995	6286460	K 32 2AF

# K 32 L

## IMPACT SOCKET 3/4"

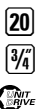
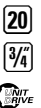
hexagon, long pattern

- > Machine-operated, suitable for all standard electric and air tools
- > Square drive as per DIN 3121 - H 20, ISO 1174
- > GEDORE special steel, gun-metal finish



Ø mm	L	d <sub>1</sub>	d <sub>2</sub>	t	recommended accessories	🏋️	Code	No.
17	90	29	44	9.0	KB 3270, KB 3275	0.727	6283600	K 32 L 17
19	95	32	44	9.5	KB 3270, KB 3275	0.720	6283790	K 32 L 19
21	95	35	44	11.0	KB 3270, KB 3275	0.757	6286700	K 32 L 21
22	95	38	44	11.0	KB 3270, KB 3275	0.739	6283870	K 32 L 22
24	95	40	44	13.0	KB 3270, KB 3275	0.706	6283950	K 32 L 24
27	95	41	44	13.0	KB 3270, KB 3275	0.655	6284090	K 32 L 27

Ø mm	L	d <sub>1</sub>	d <sub>2</sub>	t	recommended accessories	🏋️	Code	No.
30	95	44	44	16.5	KB 3270, KB 3275	0.644	6284170	K 32 L 30
32	95	49	44	17.0	KB 3270, KB 3275	0.728	6284250	K 32 L 32
33	95	49	44	17.0	KB 3270, KB 3275	0.709	6286540	K 32 L 33 (3/4W)
34	95	52	44	19.0	KB 3270, KB 3275	0.858	6281660	K 32 L 34
36	95	52	44	19.0	KB 3270, KB 3275	0.826	6284330	K 32 L 36
41	95	57	44	22.0	KB 3270, KB 3275	0.811	6286890	K 32 L 41



## IN K 32 IMPACT SCREWDRIVER BIT SOCKET 3/4"

for in-hex screws

- > Suitable for all standard electric and air tools
- > Square drive as per DIN 3121 - H 20, ISO 1174
- > GEDORE special steel, manganese-phosphated

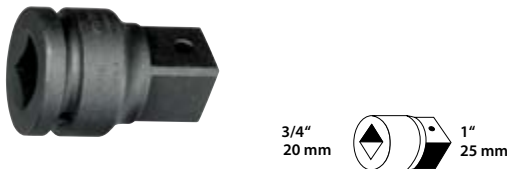


mm	L <sub>1</sub>	L <sub>2</sub>	d	recommended accessories	kg	Code	No.
14	65	14	38	KB 3270, KB 3275	0.440	1956477	IN K 32 14
17	65	17	38	KB 3270, KB 3275	0.495	1956485	IN K 32 17
19	65	19	44	KB 3270, KB 3275	0.530	1956493	IN K 32 19
22	65	22	44	KB 3270, KB 3275	0.590	1956507	IN K 32 22
24	65	24	44	KB 3270, KB 3275	0.630	1956515	IN K 32 24
27	65	27	44	KB 3270, KB 3275	0.695	1956523	IN K 32 27

## KB 3221 CONVERTOR 3/4" TO 1"

for impact sockets

- > With square drive as per DIN 3121, ISO 1174, Form F and H
- > GEDORE special steel, manganese-phosphated



"	mm	"	mm	kg	Code	No.
3/4	20	1	25	65	0.445	6671530

## KB 3295 UNIVERSAL JOINT 3/4"

for impact sockets

- > With square drive as per DIN 3121, ISO 1174, Form F and H
- > GEDORE special steel, manganese-phosphated



"	mm	"	mm	kg	Code	No.
3/4	20	3/4	20	94	0.623	6676090

## KB 3219 REDUCER 3/4" TO 1/2"

for impact sockets

- > With square drive as per DIN 3121, ISO 1174, Form F and H
- > GEDORE special steel, manganese-phosphated



"	mm	"	mm	kg	Code	No.
3/4	20	1/2	12.5	65	0.351	6675280

## KB 3290 EXTENSION 3/4"

for impact sockets

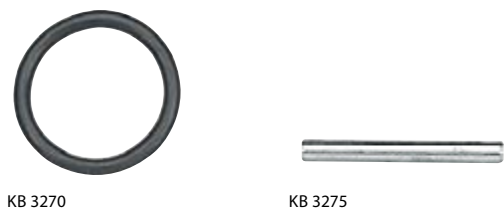
- > With square drive as per DIN 3121, ISO 1174, Form F and H
- > GEDORE special steel, manganese-phosphated



"	mm	kg	Code	No.
3/4	205	0.957	6675600	KB 3290-8
3/4	300	1.328	6675790	KB 3290-12
3/4	400	1.759	6675870	KB 3290-16

## KB 3270 - KB 3275 SAFETY RING AND SAFETY PIN

for impact sockets 3/4"



Description	Ø	mm	kg	Code	No.
Safety ring d 36 mm	36		0.004	6675360	KB 3270
Safety pin d 4 mm	4	35	0.004	6675440	KB 3275

# IMPACT-FIX LOCK

## Your advantages

- > Integrated, secure two-pin lock including ring
- > An extra feature from GEDORE - for increased safety in the workplace
- > Particularly suitable for working in sensitive areas permanently governed by certainty against loss, process reliability and occupational safety
- > Examples: overhead power line construction, wind power plants, machine engineering or the automotive sector
- > Very safe and extremely practice-oriented, and very easy to handle
- > Double ring groove for easily sliding the ring
- > Minimisation of the risk of injury compared to standard systems available on the market. The securing ring is not catapulted out of the rotating insert if the securing pin tears.
- > Wherever major forces prevail, correct and appropriate securing and handling of tools is a key element of good screwed connections.
- > Standard practice: the bothersome and awkward fitting of the loose securing pin and ring is often simply neglected or forgotten, or the pin and ring are no longer to be found.
- > Thanks to the Impact-Fix lock integrated in the socket, 3 elements no longer need to be installed (insert, pin and ring). The securing pins and rings are always secured to the socket (3 in 1). The pins are automatically pressed into the drill holes in the square drive when the ring is secured in place.
- > DBGM (German utility patent)



## 3 in 1

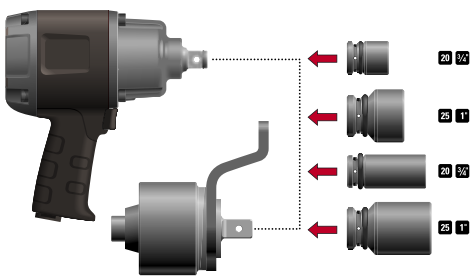
### THE ADVANTAGE IS OBVIOUS:

thanks to the Impact-Fix lock integrated in the socket, three elements no longer need to be installed (insert, pin and ring).

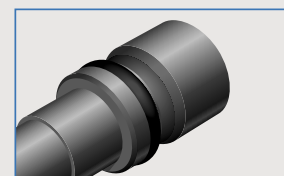
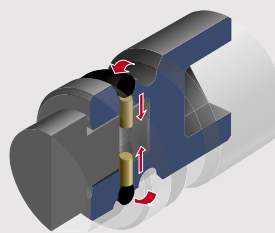
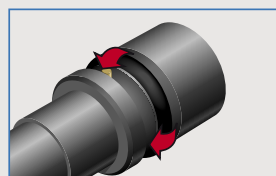
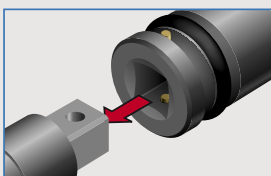


## MACHINE- OR HAND-OPERATED...

... electric, hydraulic, pneumatic or with torque multiplier by hand



## EASY TO USE ...



Double ring groove for easily sliding the ring thanks to integrated two-pin lock including ring.

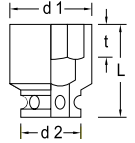


# K 21 (MM) IMPACT SOCKET 1"

25  
1"

hexagon

- > Acc. to DIN 3129, ISO 2725-2
- > Machine-operated, suitable for all standard electric and air tools
- > Square drive as per DIN 3121 - H 25, ISO 1174
- > GEDORE special steel, gun-metal finish
- > Use KB 3770 and KB 3775 from 75 mm and up  
\* not standardised



Ø mm	L	d <sub>1</sub>	d <sub>2</sub>	t	recommended accessories	⚖️	Code	No.
22	60	40	54	11.0	KB 2170, KB 2175	0.561	6183060	K 21 22
24	60	42	54	13.0	KB 2170, KB 2175	0.611	6183140	K 21 24
27	60	46	54	13.0	KB 2170, KB 2175	0.614	6183220	K 21 27
30	58	50	54	16.5	KB 2170, KB 2175	0.619	6183300	K 21 30
32	62	51	54	17.0	KB 2170, KB 2175	0.608	6183490	K 21 32
33	60	54	54	17.0	* KB 2170, KB 2175	0.615	6183650	K 21 33
34	62	54	54	19.0	KB 2170, KB 2175	0.624	6196980	K 21 34
36	67	54	54	19.0	KB 2170, KB 2175	0.598	6183570	K 21 36
38	67	60	54	19.0	* KB 2170, KB 2175	0.764	6184890	K 21 38
41	67	63	54	22.0	KB 2170, KB 2175	0.794	6183730	K 21 41

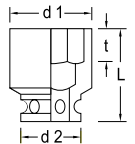
Ø mm	L	d <sub>1</sub>	d <sub>2</sub>	t	recommended accessories	⚖️	Code	No.
42	74	63	54	22.0	* KB 2170, KB 2175	0.781	6184970	K 21 42
46	74	70	54	25.5	KB 2170, KB 2175	0.974	6183810	K 21 46
50	80	73	54	27.0	KB 2170, KB 2175	1.018	6184030	K 21 50
55	84	82	54	30.0	KB 2170, KB 2175	1.298	6184110	K 21 55
60	87	86	54	33.0	KB 2170, KB 2175	1.481	6184380	K 21 60
65	90	92	54	35.0	KB 2170, KB 2175	1.682	6184460	K 21 65
70	96	96	54	38.0	KB 2170, KB 2175	1.812	6184540	K 21 70
75	98	100	86	41.0	* KB 3770, KB 3775	2.690	6184620	K 21 75
80	100	105	86	44.0	* KB 3770, KB 3775	2.936	6184700	K 21 80

# K 21 (AF) IMPACT SOCKET 1"

25  
1"

hexagon

- > Machine-operated, suitable for all standard electric and air tools
- > Square drive as per DIN 3121 - H 25, ISO 1174
- > GEDORE special steel, gun-metal finish



Ø "AF"	L	d <sub>1</sub>	d <sub>2</sub>	t	recommended accessories	⚖️	Code	No.
1	55	43	54	13.0	KB 2170, KB 2175	0.611	6186320	K 21 1AF
1.1/4	57	51	54	17.0	KB 2170, KB 2175	0.614	6186400	K 21 1.1/4AF
1.7/16	60	54	54	19.0	KB 2170, KB 2175	0.593	6186590	K 21 1.7/16AF
1.1/2	64	60	54	22.0	KB 2170, KB 2175	0.776	6186750	K 21 1.1/2AF

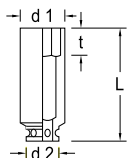
Ø "AF"	L	d <sub>1</sub>	d <sub>2</sub>	t	recommended accessories	⚖️	Code	No.
1.5/8	64	63	54	22.0	KB 2170, KB 2175	0.796	6186670	K 21 1.5/8AF
1.13/16	69	70	54	25.5	KB 2170, KB 2175	0.972	6186830	K 21 1.13/16AF
1.7/8	72	70	54	27.0	KB 2170, KB 2175	0.981	6186910	K 21 1.7/8AF
2.1/4	80	82	54	33.0	KB 2170, KB 2175	1.365	6187050	K 21 2.1/4AF

# K 21 L IMPACT SOCKET 1"

25  
1"

hexagon, long pattern

- > Machine-operated, suitable for all standard electric and air tools
- > Square drive as per DIN 3121 - H 25, ISO 1174
- > GEDORE special steel, gun-metal finish



Ø mm	L	d <sub>1</sub>	d <sub>2</sub>	t	recommended accessories	⚖️	Code	No.
22	100	40	54	11.0	KB 2170, KB 2175	1.103	6185350	K 21 L 22
24	100	42	54	13.0	KB 2170, KB 2175	1.234	6185430	K 21 L 24
27	100	46	54	13.0	KB 2170, KB 2175	1.227	6185510	K 21 L 27
30	100	50	54	16.5	KB 2170, KB 2175	1.141	6185780	K 21 L 30
32	100	51	54	17.0	KB 2170, KB 2175	1.101	6185860	K 21 L 32
33	100	54	54	17.0	KB 2170, KB 2175	1.104	6197950	K 21 L 33

Ø mm	L	d <sub>1</sub>	d <sub>2</sub>	t	recommended accessories	⚖️	Code	No.
34	100	54	54	19.0	KB 2170, KB 2175	1.189	6197010	K 21 L 34
36	100	54	54	19.0	KB 2170, KB 2175	1.022	6185940	K 21 L 36
38	100	60	54	22.0	KB 2170, KB 2175	1.262	6186080	K 21 L 38
41	100	63	54	22.0	KB 2170, KB 2175	1.420	6186160	K 21 L 41
46	100	70	54	25.5	KB 2170, KB 2175	1.619	6186240	K 21 L 46

## IN K 21 IMPACT SCREWDRIVER BIT SOCKET 1"

for in-hex screws

- > Suitable for all standard electric and air tools
- > Square drive as per DIN 3121 - H 25, ISO 1174
- > GEDORE special steel, manganese-phosphated

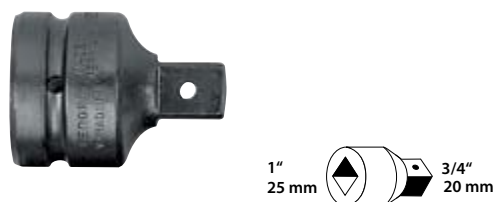


mm	L <sub>1</sub>	L <sub>2</sub>	d	recommended accessories	kg	Code	No.
19	75	21	54	KB 2170, KB 2175	0.650	1956558	IN K 21 19
22	75	24	54	KB 2170, KB 2175	0.675	1956566	IN K 21 22
24	75	26	54	KB 2170, KB 2175	0.700	1956574	IN K 21 24
27	75	28	54	KB 2170, KB 2175	0.730	1956582	IN K 21 27
30	75	29	54	KB 2170, KB 2175	0.770	1577514	IN K 21 30
32	75	30	54	KB 2170, KB 2175	0.900	1956590	IN K 21 32
36	75	30	54	KB 2170, KB 2175	0.860	1956604	IN K 21 36

## KB 2132 REDUCER 1" TO 3/4"

for impact sockets

- > Square drive as per DIN 3121, ISO 1174, Form F and H
- > GEDORE special steel, manganese-phosphated



"	"	"	"	mm	kg	Code	No.
1	25	3/4	20	75	0.661	6657460	KB 2132

## KB 2190 EXTENSION 1"

for impact sockets

- > Square drive as per DIN 3121, ISO 1174, Form F and H
- > GEDORE special steel, manganese-phosphated



"	"	mm	kg	Code	No.
1	25	208	1.477	6657970	KB 2190-8
1	25	300	2.010	6658000	KB 2190-12
1	25	405	2.587	6658190	KB 2190-16

## KB 2137 CONVERTOR 1" TO 1.1/2"

for impact sockets

- > Square drive as per DIN 3121, ISO 1174, Form F and H
- > GEDORE special steel, manganese-phosphated



"	"	"	"	mm	kg	Code	No.
1	25	1.1/2	40	82	0.988	6657890	KB 2137

## KB 2195 UNIVERSAL JOINT 1"

for impact sockets

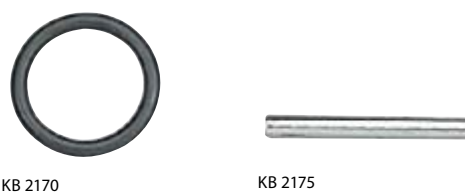
- > Square drive as per DIN 3121, ISO 1174, Form F and H
- > GEDORE special steel, manganese-phosphated



"	"	"	"	mm	kg	Code	No.
1	25	1	25	140	1.425	6658350	KB 2195

## KB 2170 - KB 2175 SAFETY RING AND SAFETY PIN 1"

for impact sockets 1"



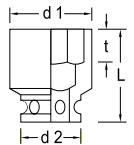
Description	Ø	mm	kg	Code	No.
Safety ring d 45 mm	45		0.008	6657620	KB 2170
Safety pin d 5 mm	5	45	0.007	6657700	KB 2175

## 40 (1.1/2") square drive

### K 37 IMPACT SOCKET 1.1/2"

hexagon

- > Acc. to DIN 3129, ISO 2725-2
- > Machine-operated, suitable for all standard electric and air tools
- > Square drive as per DIN 3121 - H 40, ISO 1174
- > GEDORE special steel, gun-metal finish
- > Use KB 6470 and KB 6475 from 95 mm and up
- \* not standardised



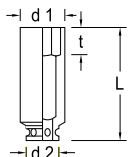
Ø mm	L	d <sub>1</sub>	d <sub>2</sub>	t	recommended accessories	⚖️	Code	No.
46	84	76	86	25.5	KB 3770, KB 3775	2.3	6328130	K 37 46
50	87	81	86	27.0	* KB 3770, KB 3775	2.3	6328210	K 37 50
55	90	86	86	30.0	KB 3770, KB 3775	2.5	6328480	K 37 55
60	92	93	86	33.0	KB 3770, KB 3775	2.7	6328560	K 37 60
65	95	97	86	35.0	KB 3770, KB 3775	3.2	6328640	K 37 65
70	100	105	86	38.0	KB 3770, KB 3775	3.5	6328720	K 37 70
75	103	110	86	41.0	KB 3770, KB 3775	3.7	6328800	K 37 75
80	110	116	86	44.0	KB 3770, KB 3775	4.2	6328990	K 37 80
85	118	125	86	47.0	KB 3770, KB 3775	4.8	6329020	K 37 85

Ø mm	L	d <sub>1</sub>	d <sub>2</sub>	t	recommended accessories	⚖️	Code	No.
90	118	130	86	49.0	KB 3770, KB 3775	5.5	6329100	K 37 90
95	118	137	95	49.0	* KB 6470, KB 6475	9.0	6329290	K 37 95
100	125	140	127	54.0	* KB 6470, KB 6475	8.1	6329370	K 37 100
105	125	150	127	54.0	* KB 6470, KB 6475	9.3	6329450	K 37 105
110	137	156	127	62.0	* KB 6470, KB 6475	10.6	6329530	K 37 110
115	137	160	127	67.0	* KB 6470, KB 6475	10.6	6329610	K 37 115
120	145	168	127	67.0	* KB 6470, KB 6475	11.8	6329880	K 37 120

### K 37 L IMPACT SOCKET 1.1/2"

hexagon, long pattern

- > Machine-operated, suitable for all standard electric and air tools
- > Square drive as per DIN 3121 - H 40, ISO 1174
- > GEDORE special steel, gun-metal finish
- > Use KB 6470 and KB 6475 from 95 mm and up



Ø mm	L	d <sub>1</sub>	d <sub>2</sub>	t	recommended accessories	⚖️	Code	No.
41	140	70	86	22.0	KB 3770, KB 3775	4.4	6330110	K 37 L 41
46	140	75	86	25.5	KB 3770, KB 3775	4.3	6330380	K 37 L 46
50	140	80	86	27.0	KB 3770, KB 3775	4.4	6330460	K 37 L 50
55	140	86	86	30.0	KB 3770, KB 3775	4.0	6330540	K 37 L 55
60	140	92	86	33.0	KB 3770, KB 3775	4.1	6330620	K 37 L 60
65	140	100	86	35.0	KB 3770, KB 3775	4.6	6330700	K 37 L 65
70	140	105	86	38.0	KB 3770, KB 3775	4.8	6330890	K 37 L 70
75	140	109	86	41.0	KB 3770, KB 3775	5.4	6330970	K 37 L 75
80	140	115	86	44.0	KB 3770, KB 3775	5.7	6331000	K 37 L 80

Ø mm	L	d <sub>1</sub>	d <sub>2</sub>	t	recommended accessories	⚖️	Code	No.
85	140	121	86	47.0	KB 3770, KB 3775	6.2	6331190	K 37 L 85
90	140	130	86	49.0	KB 3770, KB 3775	6.6	6331270	K 37 L 90
95	150	137	127	49.0	KB 6470, KB 6475	10.0	6331350	K 37 L 95
100	150	144	127	54.0	KB 6470, KB 6475	10.0	6331430	K 37 L 100
105	150	154	127	54.0	KB 6470, KB 6475	11.3	6331510	K 37 L 105
110	160	157	127	62.0	KB 6470, KB 6475	12.8	6331780	K 37 L 110
115	160	164	127	67.0	KB 6470, KB 6475	12.2	6331860	K 37 L 115
120	170	167	127	67.0	KB 6470, KB 6475	13.8	6331940	K 37 L 120

### KB 3721 REDUCER 1.1/2" TO 1"

for impact sockets

- > Square drive as per DIN 3121, ISO 1174, Form F and H
- > GEDORE special steel, gun-metal finish



□ "	□	■ "	■	↳ mm ↳	⚖️	Code	No.
1.1/2	40	1	25	95	1.992	6676410	KB 3721



## KB 3764 CONVERTOR 1.1/2" TO 2.1/2"

for impact sockets

- > Square drive as per DIN 3121, ISO 1174, Form F and H
- > GEDORE special steel, gun-metal finish



"	"	"	"	∅	↳ mm ↳	↳ kg ↳	Code	No.
1.1/2	40	2.1/2	63	86	93	3.6	1531220	KB 3764

## KB 3770 - KB 3775 SAFETY RING AND SAFETY PIN

for impact sockets 1.1/2"



KB 3770



KB 3775

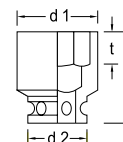
Description	∅	↳ mm ↳	↳ kg ↳	Code	No.
<b>Safety ring d 75 mm</b>	75		0.026	6676760	KB 3770
<b>Safety pin d 6 mm</b>	6	75	0.017	6676840	KB 3775

63 (2.1/2") square drive

## K 64 IMPACT SOCKET 2.1/2"

hexagon

- > Acc. to DIN 3129, ISO 2725-2
- > Machine-operated, suitable for all standard electric and air tools
- > Square drive as per DIN 3121 - H 63, ISO 1174
- > GEDORE special steel, gun-metal finish
- \* not standardised



∅ mm	L	d <sub>1</sub>	d <sub>2</sub>	t	recommended accessories	↳ kg ↳	Code	No.
75	125	115	127	41	KB 6470, KB 6475	7.4	6371300	K 64 75
80	125	115	127	44	KB 6470, KB 6475	7.0	6371490	K 64 80
85	130	127	127	47	KB 6470, KB 6475	7.3	6371570	K 64 85
90	132	135	127	49	KB 6470, KB 6475	8.0	6371650	K 64 90
95	132	140	127	49	KB 6470, KB 6475	8.1	6371730	K 64 95

∅ mm	L	d <sub>1</sub>	d <sub>2</sub>	t	recommended accessories	↳ kg ↳	Code	No.
100	141	145	127	54	KB 6470, KB 6475	8.9	6371810	K 64 100
105	141	150	127	54	KB 6470, KB 6475	9.1	6372030	K 64 105
110	150	160	127	62	KB 6470, KB 6475	11.0	6372110	K 64 110
115	150	165	127	62	KB 6470, KB 6475	11.1	6372380	K 64 115
120	158	170	127	67	* KB 6470, KB 6475	12.0	6372460	K 64 120

## KB 6437 REDUCER 2.1/2" TO 1.1/2"

for impact sockets

- > Square drive as per DIN 3121, ISO 1174, Form F and H
- > GEDORE special steel, gun-metal finish



"	"	"	"	↳ mm ↳	↳ kg ↳	Code	No.
2.1/2	63	1.1/2	40	138	7.090	6699700	KB 6437

## KB 6470 - KB 6475 SAFETY RING AND SAFETY PIN

for impact sockets 2.1/2"



KB 6470



KB 6475

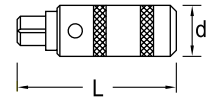
Description	∅	↳ mm ↳	↳ kg ↳	Code	No.
<b>Safety ring d 114 mm</b>	114		0.040	6699890	KB 6470
<b>Safety pin d 8 mm</b>	8	110	0.043	6699970	KB 6475

**Impact driver**

# K 1900

## HAND-OPERATED IMPACT DRIVER 1/2"

- > Particularly suitable for loosening tight bolts or screws with the aid of a hammer
- > Reversible for right and left hand operation
- > Will fit any 1/2" impact socket or bit
- > Manganese-phosphated



1/2"	12.5	L	d	kg	Code	No.
1/2	12.5	123	34	0.579	6654440	K 1900

# K 1900-018

## HAND-OPERATED IMPACT DRIVER SET 1/2"

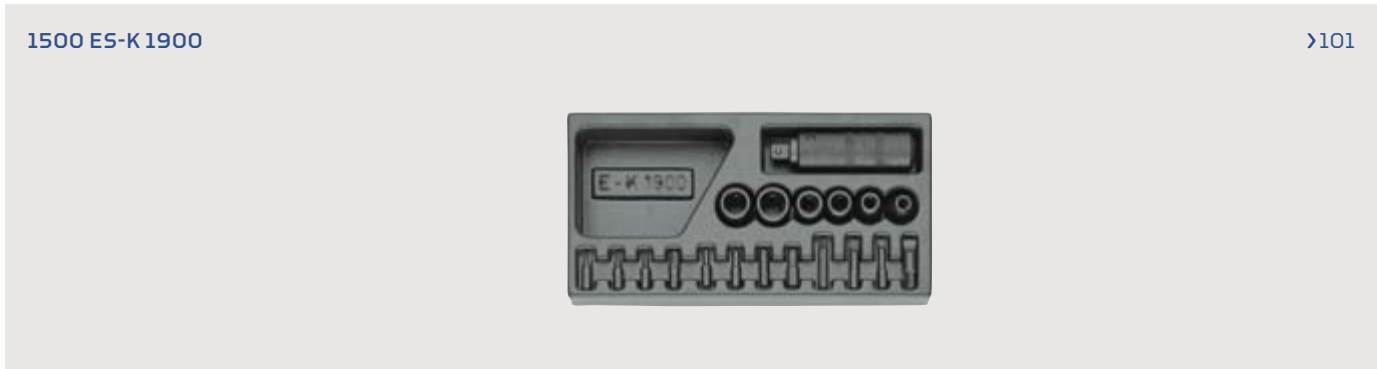
18 pieces

- 12.5
- 1/2"
- 8
- 5/16"

- > Complete with the most frequently used bits, for use on screws and bolts with slotted, cross-head or hexagon heads
- > Reversible for right and left hand operation
- > In plastic case
- > Dimensions: 200 x 120 x 38 mm
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



Contents	kg	Code	No.
⊖ 880 5,5 6,5 8 12	1.249	6654600	K 1900-018
● 885 4 5 6 8 10			
⊕ 890 2 3 4			
⊗ 887 TX T27 T30 T40 T45			
KB 819			
K 1900			



1500 ES-K 1900

Bit range

# 690

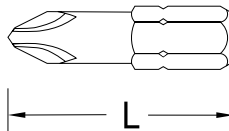
## SCREWDRIVER BIT 1/4", VALUE PACK

**NEW**



for cross-head screws PH

- > For hand operation and use in electric and air tools
- > Acc. to DIN ISO 2351-2, tip as per DIN ISO 8764-1 PH
- > Hexagon drive as per DIN 3126 - C 6.3 (1/4")
- > GEDORE special vanadium steel, gun-metal finish
- > 10-piece value packs



⊕ PH	L	Contents	⚖	Code	No.
0	25	10x	0.050	1803514	690 0 S-010
1	25	10x	0.050	6541240	690 1 S-010
1	50	10x	0.120	1828150	690 1 L S-010
2	25	10x	0.060	6541320	690 2 S-010
2	50	10x	0.120	6541400	690 2 L S-010
3	25	10x	0.060	6541590	690 3 S-010
3	50	10x	0.120	6541670	690 3 L S-010
4	32	10x	0.100	6541750	690 4 S-010

# 690 PZD

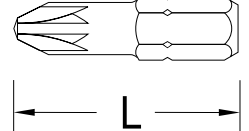
## SCREWDRIVER BIT 1/4", VALUE PACK

**NEW**



for cross-head screws Pozi PZ

- > For hand operation and use in electric and air tools
- > Acc. to DIN ISO 2351-2, tip as per DIN ISO 8764-1 PZ
- > Hexagon drive as per DIN 3126 - C 6.3 (1/4")
- > GEDORE special vanadium steel, gun-metal finish
- > 10-piece value packs



⊕ PZ	L	Contents	⚖	Code	No.
1	25	10x	0.050	6552790	690 PZD 1 S-010
1	50	10x	0.120	1827022	690 PZD 1 L S-010
2	25	10x	0.060	6552870	690 PZD 2 S-010
2	50	10x	0.120	6552950	690 PZD 2 L S-010
3	25	10x	0.060	6553090	690 PZD 3 S-010
3	50	10x	0.120	6553170	690 PZD 3 L S-010
4	32	10x	0.150	6553680	690 PZD 4 S-010

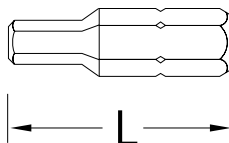
# 685

## SCREWDRIVER BIT 1/4", VALUE PACK



for in-hex screws

- > For hand operation and use in electric and air tools
- > Acc. to DIN ISO 2351-3
- > Hexagon drive as per DIN 3126 - C 6.3 (1/4")
- > GEDORE special vanadium steel, gun-metal finish
- > 10- and 5-piece value packs



●	ISO 4762	DIN 7984	L	Contents	⚖	Code	No.
2	M2	M2	25	10x	0.050	1802399	685 2 S-010
2,5	M3	M4	25	10x	0.050	6538880	685 2,5 S-010
3	M4	M5	25	10x	0.050	6538960	685 3 S-010
4	M5	M6	25	10x	0.060	6539180	685 4 S-010
5	M6	M8	25	10x	0.060	6539260	685 5 S-010
6	M8	M10	25	10x	0.070	6539340	685 6 S-010
8	M10	M12	33	10x	0.090	6539420	685 8 S-010
10	M12	M14	33	5x	0.060	6539500	685 10 S-005

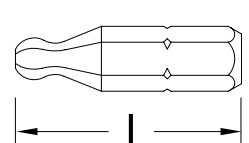
# 685 K

## SCREWDRIVER BIT 1/4", VALUE PACK



for in-hex screws, with ball end

- > For hand operation and use in electric and air tools
- > Hexagon drive as per DIN 3126 - C 6.3 (1/4")
- > GEDORE special vanadium steel, gun-metal finish
- > 5-piece value packs



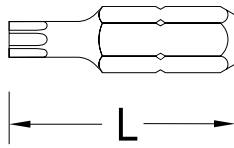
●	ISO 4762	DIN 7984	L	Contents	⚖	Code	No.
4	M5	M6	25	5x	0.030	2225700	685 K 4 S-005
5	M6	M8	25	5x	0.035	2225719	685 K 5 S-005
6	M8	M10	25	5x	0.040	2225727	685 K 6 S-005
8	M10	M12	33	5x	0.055	2225735	685 K 8 S-005
10	M12	M14	33	5x	0.070	2225743	685 K 10 S-005



## 687 TX SCREWDRIVER BIT 1/4", VALUE PACK

for recessed TORX® head screws

- > For hand operation and use in electric and air tools
- > Hexagon drive as per DIN 3126 - C 6.3 (1/4")
- > GEDORE special vanadium steel, gun-metal finish
- > 10-piece value packs
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

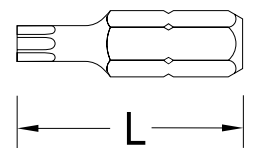


⊕	M	mm	L	Contents	kg	Code	No.
T6	M2	1,70	25	10x	0.050	6541830	687 TX T6 S-010
T7	M2,5	1,99	25	10x	0.050	6541910	687 TX T7 S-010
T8	M2,5	2,31	25	10x	0.050	6542050	687 TX T8 S-010
T9	M3	2,50	25	10x	0.050	6542130	687 TX T9 S-010
T10	M3 - M3,5	2,74	25	10x	0.050	6542210	687 TX T10 S-010
T15	M3,5 - M4	3,27	25	10x	0.050	6542480	687 TX T15 S-010
T20	M4 - M5	3,86	25	10x	0.050	6542560	687 TX T20 S-010
T25	M4,5 - M5	4,43	25	10x	0.060	6542640	687 TX T25 S-010
T27	M4,5 - M6	4,99	25	10x	0.060	6542720	687 TX T27 S-010
T30	M6 - M7	5,52	25	10x	0.060	6542800	687 TX T30 S-010
T40	M7 - M8	6,65	25	10x	0.070	6542990	687 TX T40 S-010

## 688 TX SCREWDRIVER BIT 1/4", VALUE PACK

for recessed TORX® head screws with pilot

- > For hand operation and use in electric and air tools
- > Hexagon drive as per DIN 3126 - C 6.3 (1/4")
- > GEDORE special vanadium steel, gun-metal finish
- > 10-piece value packs
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

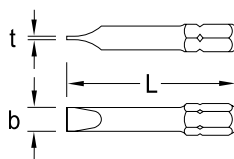


⊕	M	mm	L	Contents	kg	Code	No.
T10	M3 - M3,5	2,74	25	10x	0.050	6535510	688 TX T10 S-010
T15	M3,5 - M4	3,27	25	10x	0.050	6535780	688 TX T15 S-010
T20	M4 - M5	3,86	25	10x	0.050	6535860	688 TX T20 S-010
T25	M4,5 - M5	4,43	25	10x	0.060	6535940	688 TX T25 S-010
T27	M4,5 - M6	4,99	25	10x	0.060	6536080	688 TX T27 S-010
T30	M6 - M7	5,52	25	10x	0.060	6536160	688 TX T30 S-010
T40	M7 - M8	6,65	25	10x	0.060	6536240	688 TX T40 S-010

## 680 SCREWDRIVER BIT 1/4", VALUE PACK

for slotted head screws

- > For hand operation and use in electric and air tools
- > Acc. to DIN ISO 2351-1
- > Hexagon drive as per DIN 3126 - C 6.3 (1/4")
- > GEDORE special vanadium steel, gun-metal finish
- > 10- and 5-piece value packs

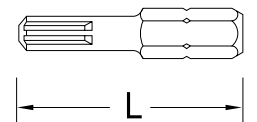


⊖	t	L	Contents	kg	Code	No.
4.0	0.5	25	10x	0.050	6537640	680 4 S-010
4.5	0.6	25	10x	0.050	6537720	680 4,5 S-010
5.5	0.8	25	10x	0.060	6537800	680 5,5 S-010
6.5	1.2	25	10x	0.060	6537990	680 6,5 S-010
7.0	1.2	25	10x	0.060	6538020	680 7 S-010
8.0	1.6	25	10x	0.070	6538100	680 8 S-010
10.0	1.6	39	5x	0.080	6538290	680 10 S-005

## 686 SCREWDRIVER BIT 1/4", VALUE PACK

for multi-spline screws RIBE®

- > For hand operation and use in electric and air tools
- > Hexagon drive as per DIN 3126 - C 6.3 (1/4")
- > GEDORE special vanadium steel, gun-metal finish
- > 10-piece value packs
- > RIBE® = reg. trademark of Richard Bergner GmbH & Co. KG, Schwabach, Germany



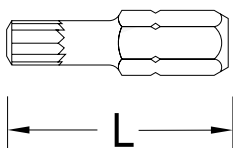
⊕	L	Contents	kg	Code	No.
M4	33	10x	0.060	6540510	686 4 S-010
M5	33	10x	0.070	6540780	686 5 S-010
M6	33	10x	0.080	6540860	686 6 S-010
M8	33	10x	0.110	6540940	686 8 S-010

## 685 X SCREWDRIVER BIT 1/4", VALUE PACK



for multi-point screws XZN

- > For hand operation and use in electric and air tools
- > Acc. to DIN ISO 65254
- > Hexagon drive as per DIN 3126 - C 6.3 (1/4"), tip as per DIN 2325
- > GEDORE special vanadium steel, gun-metal finish
- > 10-piece value packs



●	L	Contents	⚖️	Code	No.
M5	25	10x	0.060	6540000	685 X 5 S-010
M6	25	10x	0.060	6540190	685 X 6 S-010
M8	25	10x	0.080	6540270	685 X 8 S-010

## 689 TS SCREWDRIVER BIT 1/4" TORQ-SET®



- > For hand operation and use in electric and air tools
- > Acc. to DIN ISO 3126, ISO 1173
- > Hexagon drive as per DIN 3126 - C 6.3 (1/4")
- > GEDORE special vanadium steel, gun-metal finish
- > TORQ-SET® is a registered trademark of Phillips Screw Company, USA



Size	⚖️	Code	No.
2	0.006	1965506	689 TS 2
4	0.006	1965514	689 TS 4
6	0.006	1965522	689 TS 6
8	0.006	1965530	689 TS 8
10	0.006	1965549	689 TS 10

20 XLU-3 T

>164



### Bit sets 6.3 mm (1/4")

## 620-024 BIT SET 1/4"



24 pieces

- > In plastic case
- > Dimensions: 110 x 65 x 31 mm
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

Bits	Accessories	⚖️	Code	No.
● 680 4 6,5	220	0.185	1815695	620-024
● 685 3 4 5 6				
● 685 X 5 6 8				
⊕ 690 1 2				
⊕ 690 PZD 1 2 3				
⊕ 687 TX T8 T9 T10 T15				
T20 T25 T27 T30 T40				



## Accessories for bits 6.3 mm (1/4")

### 671 BIT REVERSIBLE RATCHET 1/4"



- > With knurled head for quick starting or counter-holding of screws
- > Hex recess drive as per DIN 3126 - D 6.3 (1/4")
- > Slim line design for working in confined spaces
- > Return angle 15 degrees
- > Non-slip 2-component handle with hanging hole

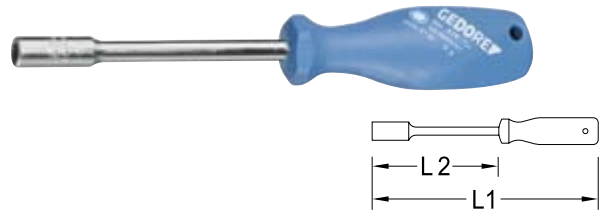


Hex"	Hex	Angle	Length	Weight	Code	No.
1/4	6.3	15	127	0.108	6535350	671

### 670 BIT SCREWDRIVER 1/4"



- > Hex recess drive as per DIN 3126 - D 6.3 (1/4"), for bits
- > Magnetic screw retainer
- > GEDORE vanadium steel



Hex"	Hex	L1	L2	Weight	Code	No.
1/4	6.3	210	100	0.140	6536590	670

### 670 K BIT SCREWDRIVER 1/4"

short pattern

- > Hex recess drive as per DIN 3126 - D 6.3 (1/4"), for bits
- > Magnetic screw retainer
- > GEDORE vanadium steel



Hex"	Hex	Length	Weight	Code	No.
1/4	6.3	80	0.100	1953796	670 K



### 169 MAGAZINE HANDLE SCREWDRIVER



- > For highest demands
- > With 1/4" recessed hexagon drive
- > Magnetic magazine handle with room for 7 bits
- > Cap with click-locking



Hex"	Hex	Contents	Length 1	Length 2	Weight	Code	No.
1/4	6.3	680 4 5,5 6,5 690 1 2 690 PZD 1 2	115	220	0.206	6432700	169

### 674 BIT SCREWDRIVER

with reversible mechanism

- > Hexagon drive as per DIN 3126 - D 6.3 (1/4"), with powerful magnetic screw retainer
- > Smooth gear mechanism with knurled head for quick starting or counter-holding of screws
- > The blue handle makes it possible to tighten even hard-to-turn wood screws
- > The ratchet is reversible and fully lockable



Hex"	Hex	Length 1	Length 2	Weight	Code	No.
1/4	6.3	55	215	0.259	6530710	674



### 676 DRIVING HANDLE

- > Non-slip 2-component handle
- > Recessed hexagon drive 1/4"
- > Versatile use



Hex"	Hex	Weight	Code	No.
1/4	6.3	0.042	1649337	676

1500 CTD-20 BIT

>108



## 700 BIT HOLDER

magnetic

- > Quick-grip system for hex bits as per DIN 3126 - C 6.3 + E 6.3 (1/4")



Hex"	Hex	Hex"	Hex	Ø	Length mm	Weight kg	Code	No.
1/4	6.3	1/4	6.3	14	60.5	0.026	6530550	700

## 699 L BIT HOLDER LONG

long

- > Hexagon drive as per DIN 3126 - C 6.3 (1/4") and hex recess drive as per DIN 3126 - D 6.3 (1/4")
- > Hand operation
- > For use with driving handle, No. 676, or torque handle, No. 2140
- > With magnetic screw retainer



Hex"	Hex	Hex"	Hex	Length mm	Length mm	Weight kg	Code	No.
1/4	6.3	1/4	6.3	32	130	0.039	1802437	699 L

## 699 BIT HOLDER

for power tools

- > Acc. to DIN 7427 Form D
- > Hexagon drive as per DIN 3126 - E 6.3 (1/4") and hex recess drive as per DIN 3126 - D 6.3 (1/4")
- > With magnetic holder
- > Chrome-plated



Hex"	Hex	Hex"	Hex	Length mm	Length mm	Weight kg	Code	No.
1/4	6.3	1/4	6.3	30	60	0.023	6538610	699

## 673 L SOCKET HOLDER

long

- > 1/4" hexagon drive and square drive as per DIN 3120 - A 6.3 (1/4")
- > Hand operation
- > For use with driving handle no. 676, or torque handle no. 2140



Hex"	Hex	Hex"	Hex	Length mm	Weight kg	Code	No.
1/4	6.3	1/4	6.3	130	0.050	1811061	673 L

## 673 ADAPTOR

- > Acc. to DIN 7428, ISO 3317
- > Hexagon drive as per DIN 3126 - E 6.3 (1/4")
- > Square drive as per DIN 3121 for power-driven sockets
- > Also suitable for battery screwdrivers without impact effect



673 6,3



673 10

Hex"	Hex	Hex"	Hex	Length mm	Weight kg	Code	No.
1/4	6.3	1/4	6.3	50	0.016	6536320	673 6,3
3/8	10.0	1/4	6.3	50	0.026	1834878	673 10

## 673 K SOCKET HOLDER

short pattern

- > Hexagon drive as per DIN 3126 - E 6.3 (1/4")
- > Square drive as per DIN 3120 - A 6,3 (1/4")



Hex"	Hex	Hex"	Hex	Length mm	Weight kg	Code	No.
1/4	6.3	1/4	6.3	17	0.020	2000245	673 K

## 620 - 630 BIT ADAPTOR 1/4"

- > Hex recess drive as per DIN 3126 - D 6.3 (1/4") and square drive as per DIN 3120 - C 6.3 (1/4") / C 10 (3/8")



620



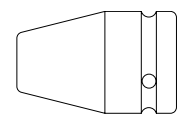
630

Hex"	Hex	Hex"	Hex	Length mm	Weight kg	Code	No.
1/4	6.3	1/4	6.3	25	0.020	1649329	620
1/4	6.3	3/8	10.0	25	0.025	1973312	630

## KB 619 - KB 630 ADAPTOR PIECES

for screwdriver bits 1/4"

- > Acc. to DIN 7427 Form A
- > Hex recess drive as per DIN 3126 - D 6.3 (1/4") and square drive Form G as per DIN 3121
- > For hand-operated or power tools
- > For use in power tools, we recommend the use of a locking ring and pin
- > Manganese-phosphated
- \* Length not standardised



Length L

Hex"	Hex	Hex"	Hex	* L	Weight kg	Code	No.
1/4	6.3	1/2	12.5	35	0.072	6524150	KB 619
1/4	6.3	1/4	6.3	25	0.017	6524230	KB 620
1/4	6.3	3/8	10.0	* 30	0.040	6530040	KB 630

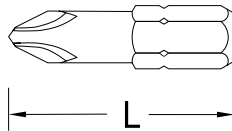
## 8 mm (5/16") hexagon drive

### 890 SCREWDRIVER BIT 5/16"



for cross-head screws PH

- > For hand operation and use in electric and air tools
- > For extra heavy use
- > Acc. to DIN ISO 2351-2, tip as per DIN ISO 8764-1 PH
- > Hexagon drive as per DIN 3126 - C 8 (5/16")
- > GEDORE special vanadium steel, gun-metal finish
- > Size 4: the length is not standardised



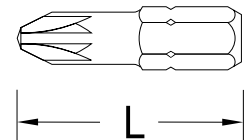
⊕ PH	L		Code	No.
1	32	0.010	6571580	890 1
2	32	0.010	6571660	890 2
3	32	0.010	6571740	890 3
4	32	0.012	6571820	890 4
4	38	0.015	6571900	890 4 L

### 890 PZD SCREWDRIVER BIT 5/16"



for cross-head screws Pozi PZ

- > For hand operation and use in electric and air tools
- > For extra heavy use
- > Acc. to DIN ISO 2351-2, tip as per DIN ISO 8764-1 PZ
- > Hexagon drive as per DIN 3126 - C 8 (5/16")
- > GEDORE special vanadium steel, gun-metal finish
- > Size 4: the length is not standardised



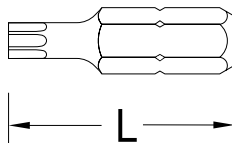
⊕ PZ	L		Code	No.
1	32	0.009	6553250	890 PZD 1
2	32	0.010	6553330	890 PZD 2
3	32	0.011	6553410	890 PZD 3
4	32	0.013	6553760	890 PZD 4

### 887 TX SCREWDRIVER BIT 5/16"



for recessed TORX® head screws

- > For hand operation and use in electric and air tools
- > For extra heavy use
- > Hexagon drive as per DIN 3126 - C 8 (5/16")
- > GEDORE special vanadium steel, gun-metal finish
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



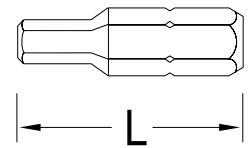
⊕		mm	L		Code	No.
T27	M4,5 - M6	4,99	35	0.011	6571070	887 TX T27
T30	M6 - M7	5,52	35	0.012	6571150	887 TX T30
T40	M7 - M8	6,65	35	0.013	6571230	887 TX T40
T45	M8 - M10	7,82	35	0.014	6571310	887 TX T45
T50	M10	8,83	35	0.015	6575140	887 TX T50
T55	M12	11,22	35	0.021	2111225	887 TX T55

### 885 SCREWDRIVER BIT 5/16"



for in-hex screws

- > For hand operation and use in electric and air tools
- > For extra heavy use
- > Acc. to DIN ISO 2351-3
- > Hexagon drive as per DIN 3126 - C 8 (5/16")
- > GEDORE special vanadium steel, gun-metal finish



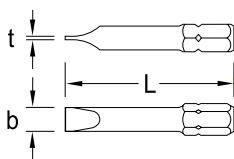
⊕	ISO 4762	DIN 7984	L		Code	No.
3	M4	M5	30	0.009	6568010	885 3
4	M5	M6	30	0.010	6568280	885 4
5	M6	M8	30	0.011	6568360	885 5
6	M8	M10	30	0.011	6568440	885 6
8	M10	M12	30	0.013	6568520	885 8
10	M12	M14	30	0.017	6568600	885 10



## 880 SCREWDRIVER BIT 5/16"

for slotted head screws

- > For hand operation and use in electric and air tools
- > For extra heavy use
- > Acc. to DIN ISO 2351-1
- > Hexagon drive as per DIN 3126 - C 8 (5/16")
- > GEDORE special vanadium steel, gun-metal finish

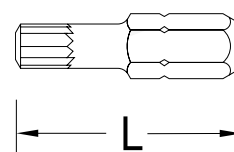


⊖	t	L		Code	No.
5.5	0.8	41	0.012	6566740	880 5,5
6.5	1.2	41	0.013	6566820	880 6,5
7.0	1.2	41	0.014	6566900	880 7
8.0	1.6	41	0.015	6567040	880 8
9.0	1.6	41	0.016	6567120	880 9
10.0	1.6	41	0.019	6567200	880 10
12.0	2.0	41	0.024	6567390	880 12
14.0	2.5	41	0.029	6567470	880 14

## 885 X SCREWDRIVER BIT 5/16"

for multi-point screws XZN

- > For hand operation and use in electric and air tools
- > For extra heavy use
- > Hexagon drive as per DIN 3126 - C 8 (5/16"), tip as per DIN 2325
- > GEDORE special vanadium steel, gun-metal finish



●	L		Code	No.
M5	28	0.009	6569170	885 X 5
M6	28	0.009	6569250	885 X 6
M8	28	0.011	6569330	885 X 8
M10	38	0.020	6569410	885 X 10
M12	38	0.025	6569680	885 X 12
M14	38	0.030	6569760	885 X 14

## 871 BIT REVERSIBLE RATCHET 5/16"

- > With knurled head for quick starting or counter-holding of screws
- > Hex recess drive as per DIN 3126 - D 8 (5/16")
- > Slim line design for working in confined spaces
- > Return angle 15 degrees
- > Non-slip 2-component handle with hanging hole

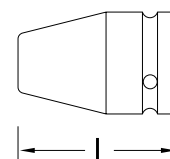


⊖"	⊖	∠°	┌─mm─┐	mm		Code	No.
5/16	8	15	127	20.2	0.100	6535430	871

## KB 819 - KB 830 ADAPTOR PIECES

for screwdriver bits 5/16"

- > Acc. to DIN 7427 Form A
- > Hex recess drive as per DIN 3126 - D 8 (5/16") and square drive Form G DIN 3121
- > For hand-operated or power tools
- > For use in power tools, we recommend the use of a locking ring and pin
- > Manganese-phosphated
- \* Length not standardised



⊖"	⊖	□"	□	*	L		Code	No.
5/16	8	1/2	12.5		35	0.075	6563480	KB 819
5/16	8	1/4	6.3	*	25	0.018	6563560	KB 820
5/16	8	3/8	10.0		30	0.040	6563800	KB 830



# TORQUE TOOLS

**DREMOMETER AM-F, A+S**  
›268



**ACCESSORIES**  
**DREMOMETER**  
›281



**DREMOMETER MINI / T-FS**  
›282



**DREMOMETER Z / SE, A+S**  
›283



**DREMASTER® K / UK / Z / SE**  
›288



**TORCOFIX K / Z / SE / FS**  
›294



**TORQUE SCREWDRIVERS**  
›299



**OTHER MECHANICAL**  
**TORQUE WRENCHES**  
›304



**ELECTRONIC TORQUE**  
**WRENCHES**  
TORCOTRONIC  
›312



**TORQUE CALIBRATION**  
**ANALYSER DREMOTEST E**  
›314



**ELECTRONIC TORSION**  
**TEST DEVICE E-TP**  
›315



**ACCESSORIES**  
**END FITTINGS**  
›317



**TORQUE MULTIPLIERS**  
DREMOPLUS ALU  
›329



**DETAILED INFORMATION ON**  
**CALIBRATION AND REPAIR**  
›636



# TORQUE COMPETENCE FROM 0.02 TO 54,000 N·M

## Maximum production depth from a single source

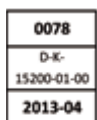
- › Use of the very best steel grades, state-of-the-art machinery and environmentally-friendly production processes
- › Our tool experts guarantee precision-like processing and permanent development
- › Precise adherence to stringent testing and measuring specifications are proof of maximum product quality.
- › Large selection of mechanical and electronic torque wrenches, test equipment, torque multipliers and accessories
- › Available individually or in practical sets
- › Tailored service packages through to development of special customised tools

## Maximum control during production guarantees a constantly high level.

- › All parts incorporated in the production process - from steel to the smallest spring - are controlled while all manufacturing and work steps are subject to stringent quality controls.
- › After assembly, adjustment and calibration, torque tools are tested for accuracy in the end control stage and given a serial number (unique product identification) and factory test certificate in accordance with the applicable DIN EN ISO standard.
- › Within the framework of regular continuous tests, processing quality, repeat accuracy and durability are tested. The results of these tests are integrated directly in optimising the production process.

## Controlled screw tightening - reliable and safe for more than 50 years

- › Top-grade industrial quality for the hardest of continuous uses
- › Torque tools are measuring equipment. Over the long term, the high accuracy can only be assured in the form of regular tests (recalibration, recommended once a year or after 5000 load cycles)



## Top-level authorised calibration and competent control

- › Own accredited DAkkS calibration laboratory for torques with (licence for testing in acc. with DAkkS guidelines DKD 3-7/3-8/DIN EN ISO 6789:2003) the registration number: D-K-15200-01-00
- › National co-operation partner to the German Calibration Service (DAkkS) since accreditation (DIN EN ISO/IEC 17025) and authorisation by PTB in 2000
- › Official examination of all test and measuring equipment once a year in the DAkkS laboratory by the Physikalisch-Technische Bundesanstalt in Braunschweig (PTB)
- › Internal precision testing of all test and measuring equipment at least once every 3 months

## Our all-round service - qualified and customised

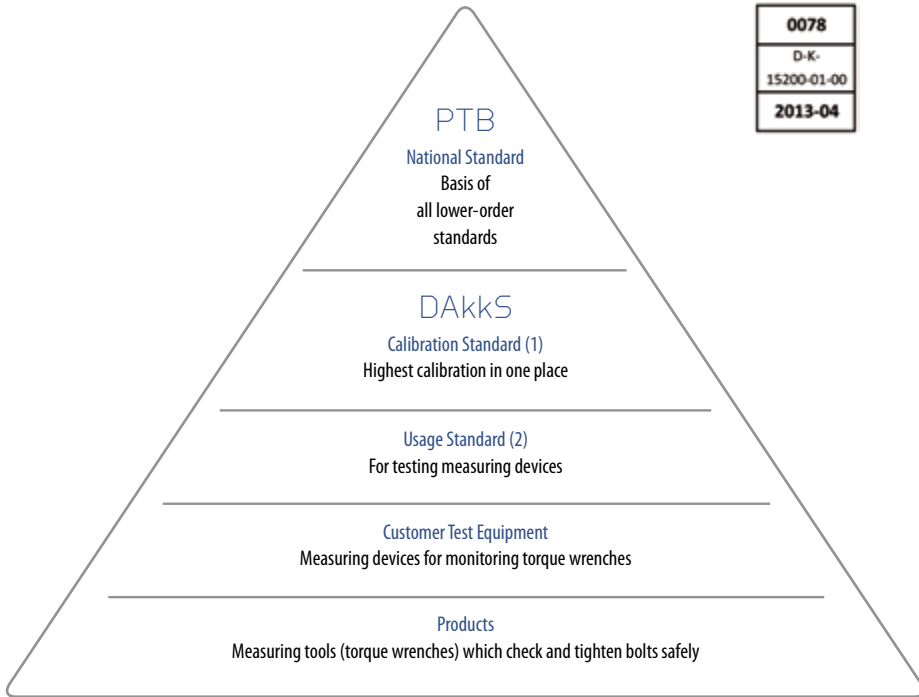
We offer you a wide range of services, which can be matched quite individually to your requirements. Your problems are our challenges. We can offer you qualified tailormade support in the following areas:

- › In-house calibration according to DIN EN ISO 6789:2003
- › DAkkS calibration in our own accredited DAkkS calibration laboratory
- › Repair service for our own brands
- › Demonstration/hire tools at favourable prices
- › Competent advice via our service telephone
- › Problem solving with the aid of our technical field service
- › Product training (internal and external)
- › Product presentations (internal and external)
- › Involvement in your in-house fairs
- › Special solutions in the engineering field/GEDORE SOLUTIONS

# CERTIFIED PRECISION

Traceable  
safety

- > DAKkS calibration in our own accredited, independent DAKkS calibration laboratory
- > In-house calibration according to DIN EN ISO 6789:2003



**Kalibrier - Zertifikat / Calibration Certificate**

Werk: Brand	Deutscher Drehmomentschlüssel
Bezeichnung / Description	mechanischer Drehmomentschlüssel
Artikel-Nr. / Part number	DAK 300 DREHMETER 4
Messbereich / Measuring range	0,2 - 300 N-m
Skalierung / Scale resolution	-
Toleranz / Tolerance	± 1%
Normen / Standards	ISO 6789
Hersteller / Manufacturer	WITTE
Produktions- / Production date	01/2014
Revidiert / Revision	02/21/2014

Die Prüfung wurde nach DIN EN ISO 6789:2003 durchgeführt.  
Testing procedures are in accordance with the 2003 edition of DIN EN ISO 6789:2003.  
Die Rückführung der Messwerte ist durch das akkreditierte DAKkS-Kalibrierlabor (DAK-15200-01-00) vorgenommen.  
The accuracy of the results on the testing machine is assured by certification from accredited DAKkS Laboratory (DAK-15200-01-00).

Skalierung / Scaling	Min	Max	Skalierung / Div	100	Skalierung / Div	100	Max	Skalierung / Div
1. Prüfung / Reading	99,4	0,00	1%	117,9	± 0,10	1%	288,4	± 0,01
2. Prüfung / Reading	99,5	± 0,10	1%	118,0	± 0,10	1%	288,4	± 0,01
3. Prüfung / Reading	99,5	± 0,10	1%	118,0	± 0,10	1%	288,4	± 0,01
4. Prüfung / Reading	99,5	± 0,10	1%	118,0	± 0,10	1%	288,4	± 0,01
5. Prüfung / Reading	99,5	± 0,10	1%	118,0	± 0,10	1%	288,4	± 0,01

Die Prüfung wurde auf einer kalibrierten Prüfvorgabe durchgeführt.  
All the results in this certificate are in accordance with the 2003 edition of DIN EN ISO 6789:2003.  
Der Genauigkeitsgrad entspricht der geforderten Toleranz von 1%.  
The results are in accordance with the required tolerance of ± 1%.

**0078**  
**D-K-**  
**15200-01-00**  
**2013-04**

**GEDORE**  
WERKZEUGE FÜR LEIBEN

akkreditiert durch die / accredited by the  
**Deutsche Akkreditierungsstelle GmbH**  
als Kalibrierlaboratorium für / as calibration laboratory in the  
**Deutschen Kalibrierdienst** **DKD**

Kalibrierlabor  
calibration lab

**Info**  
DAK-15200-01-00  
2013-04

**Bezeichnung** (nach Drehmomentschlüssel) Dieser Kalibrierlaboratorium akkreditiert die Kalibrierung von Drehmomenten (nach DIN EN ISO 6789) in der Einheit Newtonmeter (N·m) und die Umrechnung von Drehmomenten in andere Einheiten (z.B. Kilogramm-Kilometer (kg·km)).  
**Hersteller** (WITTE) Drehmomentschlüssel Die DAKkS ist ein unabhängiges Kalibrierlaboratorium, das die Kalibrierung von Drehmomenten (nach DIN EN ISO 6789) in der Einheit Newtonmeter (N·m) und die Umrechnung von Drehmomenten in andere Einheiten (z.B. Kilogramm-Kilometer (kg·km)) durchführt.  
**Typ** 4000 00  
**Teil**  
**Kalibrier/Teil-Nr.** 1010177 / 1242002  
**Serial number**  
**Auftraggeber** WITTE Werkzeug GmbH  
Friedrich-Ebert-Str. 60  
47803 - Siegen, Deutschland  
**Auftragnummer** 4071512-1  
**DAK-Id**  
**Anzahl der Seiten des Kalibrierzertifikats** 1  
**Number of pages of the certificate**  
**Status der Kalibrierung** 10.04.2013  
**Date of calibration**

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Datum	Letzte des Kalibrierlaboratoriums	Revidiert
02.04.2013	10.04.2013	10.04.2013

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**INFO** > 636

More information on the topics calibration types, certificates and repair service

## DAKkS-CALIBRATION













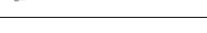






















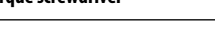












Scope of services offered by DAKkS Laboratory [1]

Type	Measuring range	Measuring process	Minimum measurement inaccuracy indicated
Electr. torque wrench	0,2 N-m – 3.000 N-m	DAKkS – DKD – R 3 – 7:2003	0,2%
Calibration equipment torque wrench (test devices)	0,2 N-m – 3.000 N-m	DAKkS – DKD – R 3 – 8:2003	0,2%
Hand-operated torque wrench	0,2 N-m – 1.000 N-m	DIN EN ISO 6789:2003	1%

Factory calibration [2]

Type	Measuring range	Measuring process	Minimum measurement inaccuracy indicated
Electr. torque wrench	0,2 N-m – 3.000 N-m	DIN EN ISO 6789:2003	1%
Calibration equipment torque wrench (test devices)	0,2 N-m – 3.000 N-m	based on DAKkS-DKD 3-8:2003	0,5%
Hand-operated torque wrench	0,2 N-m – 1.000 N-m	DIN EN ISO 6789:2003	1%
Electr. torque/rotary angle wrench	5 N-m – 300 N-m	VDI 2647	0,3°
		based on VDI 2648	0,5°
		Homologation acc. OEM	0,3°

# OVERVIEW OF GEDORE TORQUE TOOLS

Page	Series/Type	Precision +/-	Drive	Ratchet	Scale	Operation length independent	Release types
<b>0,4 – 3.000 N-m Mechanische Drehmomentschlüssel</b>							
282	Dremometer Mini 	3%	$\frac{1}{4}$ "	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	① 
268	Dremometer AM - F 	3%	$\frac{1}{4}$ " ▶ $\frac{1}{2}$ "	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	① 
283	Dremometer Z 	3%	⑩ ⑫ ⑮	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	① 
284	Dremometer SE 	3%	9x12 14x18	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	① 
282	Dremometer FS 	6%	$\frac{1}{4}$ "	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	① 
290	Dremometer DMK 	3%	$\frac{1}{2}$ " ▶ $\frac{3}{4}$ "	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	① 
291	Dremometer DMUK 	3%	$\frac{1}{2}$ "	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	① 
292	Dremometer DMZ 	3%	⑩ ⑫	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	① 
293	Dremometer DMSE 	3%	9x12 14x18	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	① 
295	Torcofix K 	3%	$\frac{1}{4}$ " ▶ $\frac{3}{4}$ "	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	① 
296	Torcofix Z 	3%	⑩ ⑫	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	① 
297	Torcofix SE 	3%	9x12 14x18	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	① 
298	Torcofix FS 	3%	9x12 14x18	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	① 
305	TSN Slipper 	4%	$\frac{1}{4}$ " ▶ $\frac{1}{4}$ "	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	③ 
308	TBN Knicker 	4%, 6%	⑩ 9x12	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	② 
306	TSP Slipper 	6%	$\frac{1}{4}$ " ▶ $\frac{1}{2}$ "	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	③ 
306	TSC Slipper 	6%	$\frac{1}{4}$ "	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	③ 
310	Typ 83 	4%	$\frac{1}{4}$ " ▶ 1"	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
309	Typ 88 	4%	$\frac{3}{4}$ " ⑫	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	② 
<b>0,04 – 13,6 N-m Torque screwdriver</b>							
301	Typ 755 FS 	6%	$\frac{1}{4}$ "	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	③ 
302	Typ 756 S 	6%	$\frac{1}{4}$ "	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	③ 
303	Typ 757 S 	6%	$\frac{1}{4}$ "	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	③ 
303	Typ 758 SP 	6%	$\frac{1}{4}$ "	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
<b>2 – 1.000 N-m Electr. torque wrench</b>							
312	E-Torc II 	1%	$\frac{1}{4}$ "	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
313	Torcotronic III 	1%	$\frac{1}{2}$ "	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
<b>0,2 – 3.150 N-m Torque testers</b>							
314	Dremotest E 	1%	$\frac{1}{4}$ " ▶ $\frac{1}{2}$ "	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
315	E-TP 	1%	$\frac{1}{4}$ " ▶ $\frac{1}{2}$ "	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

Range N·m

0 5 10 15 20 40 60 80 100 150 200 300 400 500 750 1000 1500 2000

**Mech. torque wrench**

2,5 – 12 N·m
6 – 3.000 N·m
8 – 1.000 N·m
8 – 400 N·m
5 – 12 N·m
20 – 850 N·m
20 – 300 N·m
20 – 850 N·m
20 – 400 N·m
1 – 850 N·m
2 – 850 N·m
2 – 400 N·m
2 – 200 N·m
5 – 125 N·m
0,4 – 135 N·m
1 – 10 N·m
1 – 10 N·m
0,8 – 2.000 N·m
100 – 1.500 N·m

**Torque screwdriver**

0,04 – 13,6 N·m
0,08 – 9 N·m
0,2 – 9 N·m
0,1 – 5,0 N·m

**Electr. torque wrench**

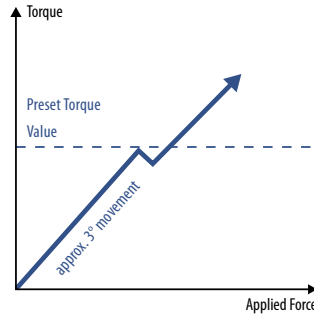
2 – 1.000 N·m
10 – 350 N·m

**Torque testers**

0,2 – 3.150 N·m
0,5 – 3.150 N·m

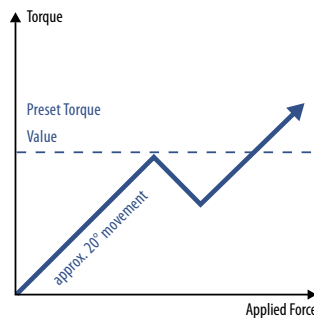
Different Torque Tool Mechanisms

① **Click Tools**  
Overtightening Possible



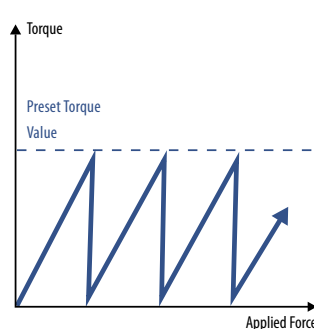
When the preset torque value is reached the operator will hear a click, feel an impulse and there will be approximately 3° of tool movement. Resetting takes place when the hand pressure is released. Work can then immediately continue. These tools are generally length dependent (exception DREMOMETER models AM - F), the position of the hand on the tool alters the torque produced. Continued application of force after the 3° of movement will cause the torque applied to increase above the required preset limit.

② **Breaking Tools**  
Overtightening Unlikely



When the preset torque value is reached, these tools break at a specific point along the tool's length - usually at a pivot point near the tool's head. In most cases the movement is approximately 20°. The tool is automatically reset by allowing the handle to return to its in line position. These tools are length dependent, the position of the hand on the tool alters the torque produced. Continued application of force after 20° of tool movement will increase the torque applied above the preset limit but with the greater angle of tool movement this is less likely.

③ **Slipping Tools**  
Overtightening Impossible



When the preset torque value is reached, a mechanism in the tool causes the application of torque to cease and the tool slips free for a short time until resetting occurs. Even if the application of force is repeated, the preset torque value will not be exceeded, therefore making it impossible to overtighten a fastener. These tools are not length dependent.

# DREMOMETER

## PERMANENT PRECISION

Torque wrench made of high-strength aluminium alloy



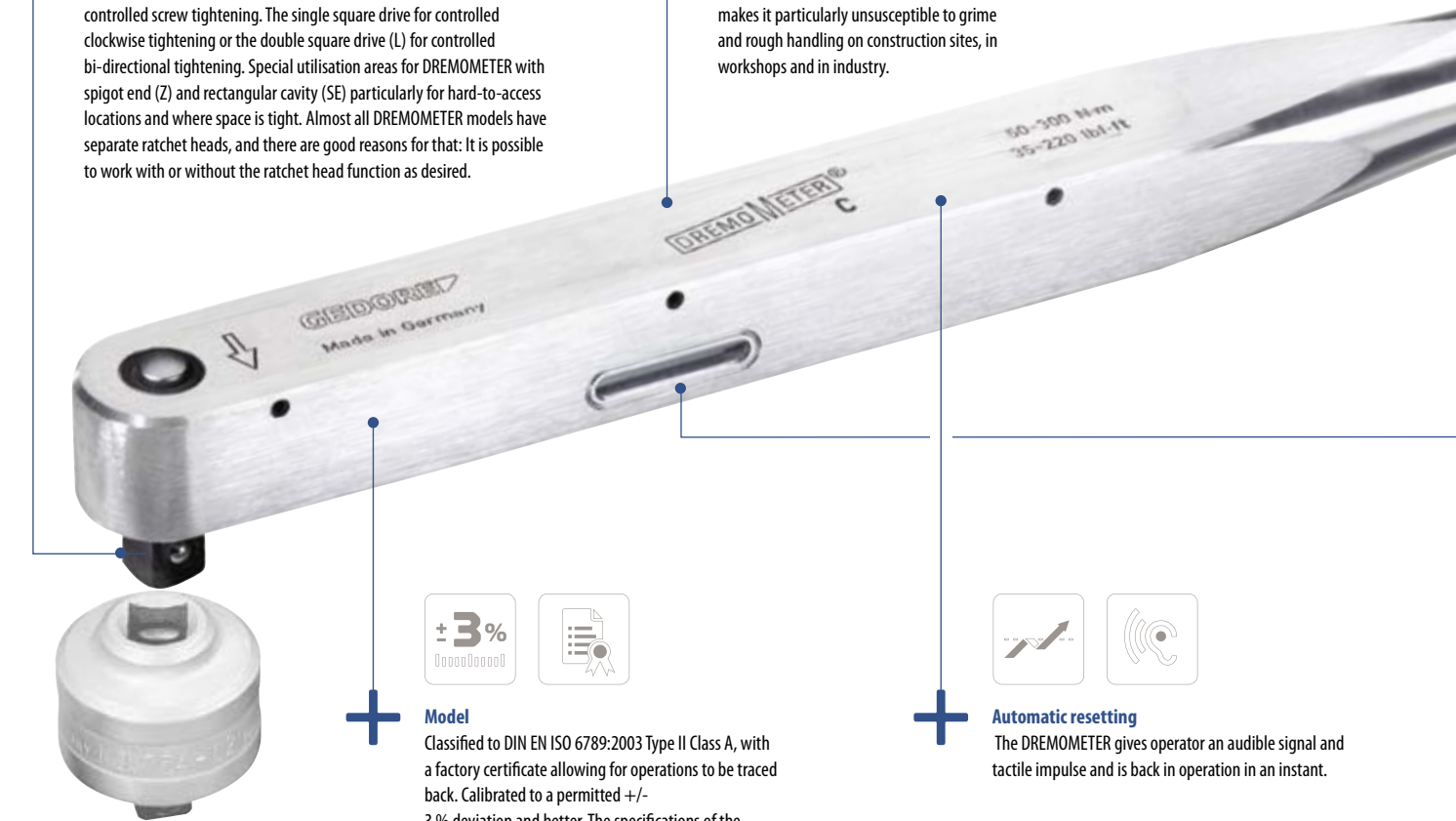
### Drive in accordance with application

DREMOMETERS are available for a large variety of applications in controlled screw tightening. The single square drive (L) for controlled clockwise tightening or the double square drive (L) for controlled bi-directional tightening. Special utilisation areas for DREMOMETER with spigot end (Z) and rectangular cavity (SE) particularly for hard-to-access locations and where space is tight. Almost all DREMOMETER models have separate ratchet heads, and there are good reasons for that: It is possible to work with or without the ratchet head function as desired.



### Robust and unsusceptible

The full-metal construction of the DREMOMETER makes it particularly unsusceptible to grime and rough handling on construction sites, in workshops and in industry.



### Model

Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate allowing for operations to be traced back. Calibrated to a permitted +/- 3% deviation and better. The specifications of the standard (+/- 4%) are exceeded.



### Automatic resetting

The DREMOMETER gives operator an audible signal and tactile impulse and is back in operation in an instant.



$\square$  1/4 - 1/2 6-3000 N-m



$\square$  L 1/4 - 1 6-2000 N-m



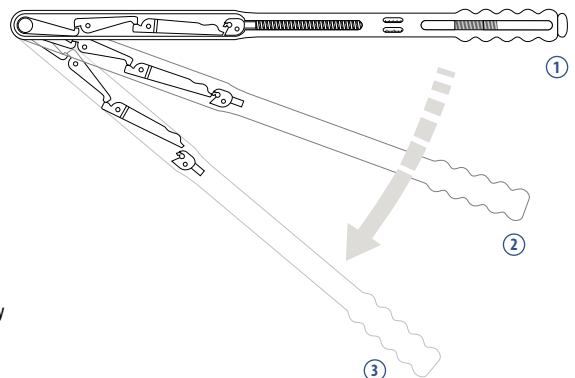
Z 16 22 28 8-1000 N-m



SE 9x12 14x18 8-400 N-m

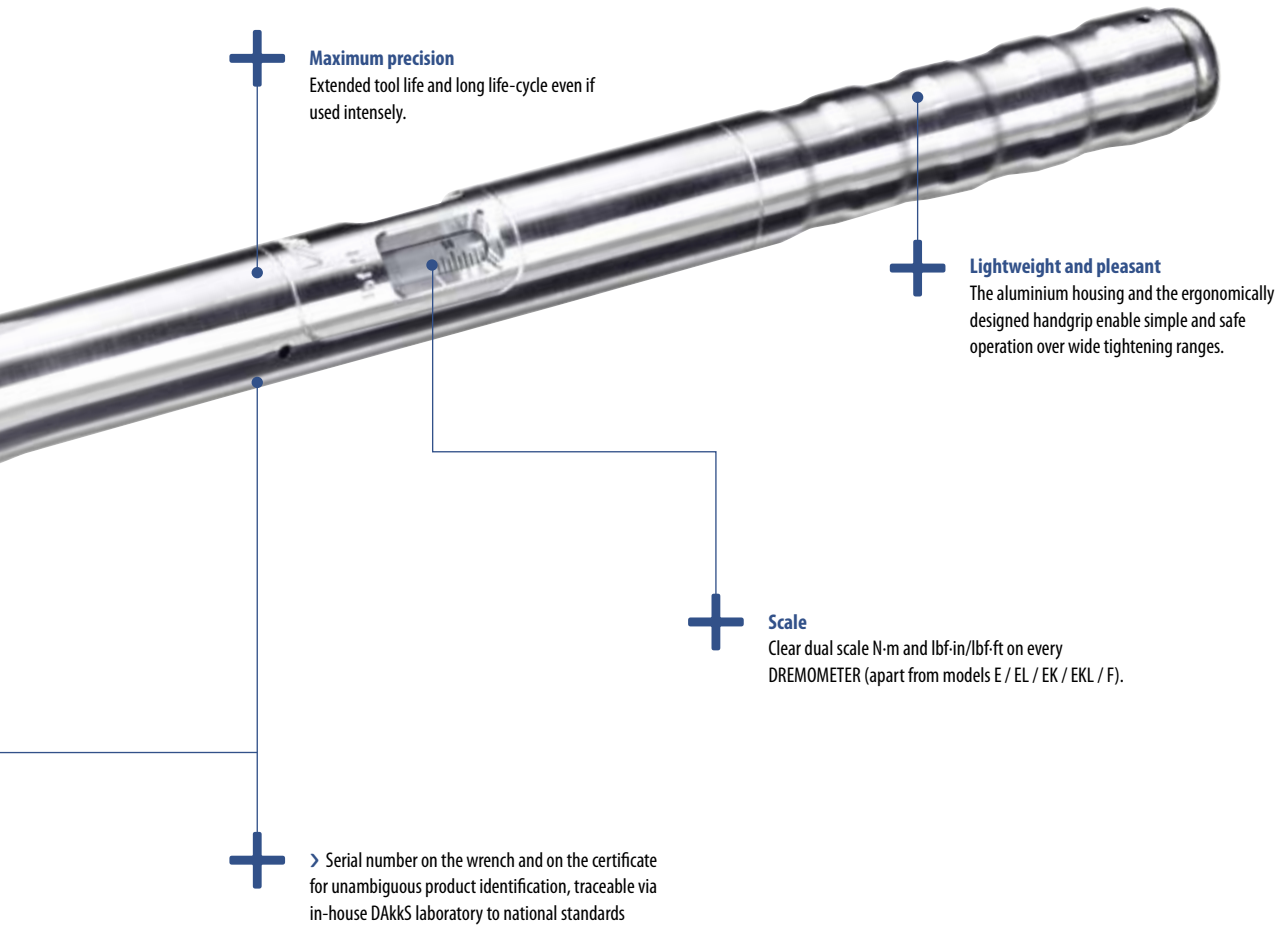
## **i** Working principle

The quality lever chain produced in the company's own drop forge reduces the strain on the mechanics to a minimum. The proportioning of the individual levers, which are optimally attuned to each other, gives the DREMOMETER its unique precision and its long tool life.



- ① Position of the lever chain without impact of force (in starting position).
- ② Position of the lever chain with impact of force before the set torque is achieved. The force is transferred from the primary lever to the intermediary and final lever until the final lever slips past the so-called release lever through the sliding back of the angle-lever body.
- ③ Position of the lever chain when the force impacts after the torque setting is achieved. Immediate position after the clear tactile impulse and audible signal "click". On relief, the lever chain moves back into the starting position (1).

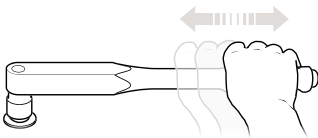




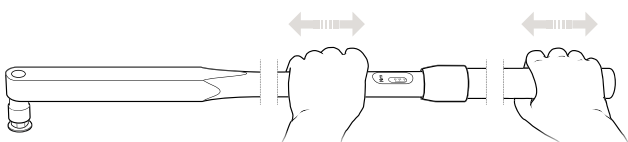
## DREMOMETER

### Operable without inaccuracies

Regardless of where you apply the force, at the center of the handgrip or another part of the DREMOMETER, with both hands or using an extension tube, your torque setting will always be attained, without shifts in value. Due to its unique single-axis location of the centre of rotation and the output square drive, the DREMOMETER is a tool that can be operated free from errors. In contrast to conventional torque wrenches, this single lever enables tightening without shifts in the measured value and without interference caused by activation outside of the handgrip.

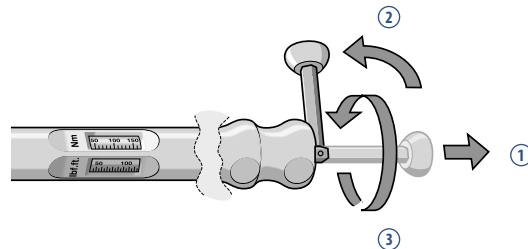


However, value shifts are possible when activating the DREMOMETER with special wrenches or when using wrenches with different depth gauges.



## Features

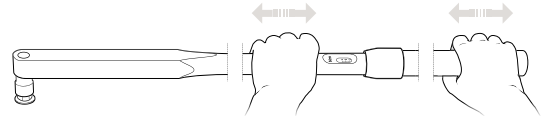
Setting of the torque value to N-m or alternatively to lbf-in / lbf-ft by the non-losable hexagon key in the handgrip. The smooth-running mechanism enables the setting to be made quickly without significant force needing to be applied.



All DREMOMETERS are also available with locking and safety device (A+S). Pre-set value locking and safety device (A+S) eliminates the possibility of unintentional or manipulated adjustment, thereby representing more process reliability of the user

# DREMOMETER THE ORIGINAL

Lightweight and sturdy, very workshop-friendly  
Maximum precision even when subjected to extreme continuous use.



Drive	Range N-m
6.3 1/4	6 – 30 N-m AM / AML
10 3/8	8 – 40 N-m A / AL
12.5 1/2 Type B, BC, C with push-button release	25 – 120 N-m B / BL
	40 – 200 N-m BC / BCL
	60 – 300 N-m C / CL
20 3/4	80 – 360 N-m CD / CDL
	110 – 550 N-m DS / DSL
	155 – 760 N-m D / DL DR / DRL
25 1	520 – 1.000 N-m DX / DXL
	600 – 1.500 N-m EK / EKL
40 1 1/2	750 – 2.000 N-m E / EL
	1.500 – 3.000 N-m F



## All the benefits at a single glance

### Square drive

- > In the DREMOMETER, the output square drive and the pivot point of the primary lever are situated on a single axis.
- > Advantage: The absolute accuracy always remains unchanged in every case. Even if the tool is operated outside of the handgrip or with an extension tube.
- > This ensures a high degree of user safety; can be extended to reduce the user's working load.

### Lever chain

- > The integrated lever chain reduces the strain on the measuring mechanics to a minimum which means that the measuring mechanics can thus be constructed with much greater sensitivity.
- > Advantage: High accuracy and a long life cycle.
- > Extremely low wear

### Double square drive

- > DREMOMETER models (except model F) having a double square drive are available on request. Apart from that, separate ratchet heads are available for almost all models (except model F).
- > Advantage: Controlled counter-clockwise tightening and work in very narrow spaces are possible without any problems.

### Scale

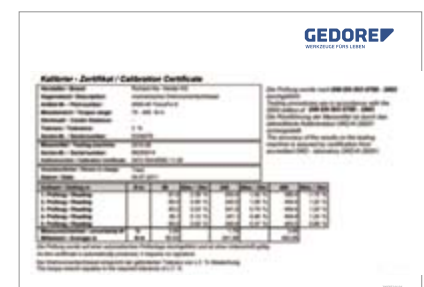
- > Two scales on each DREMOMETER indicate N-m and the common US unit of torque measurement (apart from types E - F).
- > Advantage: Exact reading even for lbf-in or lbf-ft.
- > Easy operation - fast and safe torque tightening

### Handgrip

- > The nice-to-hold handgrip enables safe work and less operator fatigue. The full-metal construction makes DREMOMETER models particularly robust.
- > Advantage: A high level of dependability even following tough long term work.

### Test certificate

- > All DREMOMETER models include a test certificate according to DIN EN ISO 6789:2003.
- > Advantage: Guaranteed accuracy +/- 3 % of the adjusted scale value. The specification of the standard (+/- 4 %) is exceeded.



Type	N-m	lbf-in	lbf-ft	Scale	Tube	Code	No.
AM	6 – 30	50 – 270	–	1 N-m / 10 lbf-in	–	7775440	8554-01
AML	6 – 30	50 – 270	–	1 N-m / 10 lbf-in	–	7775870	8559-01
A	8 – 40	70 – 350	–	5 N-m / 50 lbf-in	–	7682000	8560-01
AL	8 – 40	70 – 350	–	5 N-m / 50 lbf-in	–	7682190	8565-01
B	25 – 120	–	18 – 90	5 N-m / 5 lbf-in	–	7683320	8561-01
BL	25 – 120	–	18 – 90	5 N-m / 5 lbf-in	–	7683400	8566-01
BC	40 – 200	–	30 – 150	5 N-m / 5 lbf-in	–	7685530	8573-01
BCL	40 – 200	–	30 – 150	5 N-m / 5 lbf-in	–	7683670	8578-00
C	60 – 300	–	45 – 220	5 N-m / 5 lbf-in	–	7685450	8562-10
CL	60 – 300	–	45 – 220	5 N-m / 5 lbf-in	–	7685960	8567-10
CD	80 – 360	–	60 – 260	5 N-m / 5 lbf-in	–	7688470	8570-10
CDL	80 – 360	–	60 – 260	5 N-m / 5 lbf-in	–	7688710	8575-10
DS	110 – 550	–	80 – 400	10 N-m / 10 lbf-in	–	1427156	8574-10
DSL	110 – 550	–	80 – 400	10 N-m / 10 lbf-in	–	1427121	8579-10
D	155 – 760	–	115 – 560	10 N-m / 10 lbf-in	–	7691500	8563-10
DL	155 – 760	–	115 – 560	10 N-m / 10 lbf-in	–	7691850	8568-10
DR	155 – 760	–	115 – 560	10 N-m / 10 lbf-in	8571-80	7670180	8563-01
DRL	155 – 760	–	115 – 560	10 N-m / 10 lbf-in	8571-80	7670500	8568-01
DX	520 – 1.000	–	380 – 730	10 N-m / 10 lbf-in	8571-80	7694010	8571-01
DXL	520 – 1.000	–	380 – 730	10 N-m / 10 lbf-in	8571-80	7694360	8576-01
EK	600 – 1.500	–	–	25 N-m	8564-92	2311267	8581-01
EKL	600 – 1.500	–	–	25 N-m	8564-92	2311291	8586-01
E	750 – 2.000	–	–	50 N-m	8564-92 / 8572-74	7695250	8564-01
EL	750 – 2.000	–	–	50 N-m	8564-92 / 8572-74	7695410	8569-01
F	1.500 – 3.000	–	–	50 N-m	8564-92 / 8572-74	7717160	8572-01



# Torque Tools

## 8554 AM - 8559 AML TORQUE WRENCH DREMOMETER

6-30 N·m / 50-270 lbf·in

**Use:**

- > Controlled screw tightening in the range 6-30 N·m / 50-270 lbf·in
- > For use in almost all industrial manufacturing areas

**Features:**

- > Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate. Working accuracy: +/- 3% tolerance of scale set torque. The specification of the standard (+/- 4%) is exceeded.
- > 1/4" square drive with ball locking device DIN 3120 - A 6.3 ISO 1174
- > Automatic short-path actuation with tactile impulse and audible signal
- > Dual scale with a scale graduation of 1 N·m and 10 lbf·in

**Technical advantage/Function:**

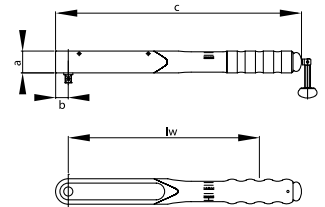
- > Lightweight and robust (as housing is made of an aluminium alloy), very workshop-friendly
- > No inaccuracies whether used with both hands or held away from the handle (as for standard torque wrenches). Both the square drive and fulcrum are on an axis which ensures a high degree of user safety; can be extended to reduce the user's working load.
- > Extremely low wear attributable to reduced forces in a unique lever mechanism
- > Forged lever chain from our own quality forge
- > Maximum precision even when subjected to extreme continuous use
- > Long life cycles and tool lives
- > Easy operation - fast and safe torque tightening
- > Easy adjustment thanks to attractive adjusting button secured against loss at the end of the handle
- > Single- and double-square drive for controlled bi-directional tightening



AM



8554-03



Type	1/4"	6.3	Contents	N·m	lbf·in	lw	a	b	c	1 N-m / 10 lbf·in	0.580	Code	No.
AM	1/4	6.3	in plastic box	6-30	50-270	206	30	15	268	1 N-m / 10 lbf·in	0.580	7775440	8554-01
AM	1/4	6.3	in plastic cassette	6-30	50-270	206	30	15	268	1 N-m / 10 lbf·in	0.910	7674090	8554-02
AM	1/4	6.3	Set mm ○ 8 9 10 11 12 13 14 ⊕ 3 ⊖ 5.5 ● 4 5 6 8 ● T20 T27 T30 ⊕ 754-00 ← 55 + 97 mm	6-30	50-270	206	30	15	268	1 N-m / 10 lbf·in	1.300	7674170	8554-03
AM	1/4	6.3	Set INCH ○ 9/32 5/16 11/32 3/8 7/16 1/2 9/16 ⊕ 3 ⊖ 5.5 ● 4 5 6 8 ● T20 T27 T30 ⊕ 754-00 ← 55 + 97 mm	6-30	50-270	206	30	15	268	1 N-m / 10 lbf·in	1.300	7674410	8554-04
AML	1/4	6.3	in plastic box	6-30	50-270	206	30	15	268	1 N-m / 10 lbf·in	0.580	7775870	8559-01
AML	1/4	6.3	in plastic cassette	6-30	50-270	206	30	15	268	1 N-m / 10 lbf·in	0.910	7673790	8559-02
AML	1/4	6.3	Set mm ○ 8 9 10 11 12 13 14 ⊕ 3 ⊖ 5.5 ● 4 5 6 8 ● T20 T27 T30 ⊕ 754-00 ← 55 + 97 mm	6-30	50-270	206	30	15	268	1 N-m / 10 lbf·in	1.300	7675060	8559-03
AML	1/4	6.3	Set INCH ○ 9/32 5/16 11/32 3/8 7/16 1/2 9/16 ⊕ 3 ⊖ 5.5 ● 4 5 6 8 ● T20 T27 T30 ⊕ 754-00 ← 55 + 97 mm	6-30	50-270	206	30	15	268	1 N-m / 10 lbf·in	1.300	7675140	8559-04

# 8560 A - 8565 AL TORQUE WRENCH DREMOMETER

8-40 N·m / 70-350 lbf·in

**Use:**

- > Controlled screw tightening in the range 8-40 N·m / 70-350 lbf·in
- > For use in almost all industrial manufacturing areas

**Features:**

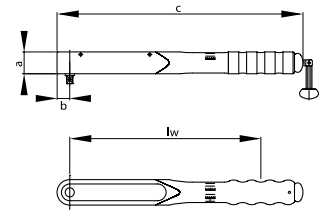
- > Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate. Working accuracy: +/- 3 % tolerance of scale set torque. The specification of the standard (+/- 4 %) is exceeded.
- > 3/8" square drive with ball locking device DIN 3120 - A 10, ISO 1174
- > Automatic short-path actuation with tactile impulse and audible signal
- > Dual scale with a scale graduation of 5 N·m and 50 lbf·in

**Technical advantage/Function:**

- > Lightweight and robust (as housing is made of an aluminium alloy), very workshop-friendly
- > No inaccuracies whether used with both hands or held away from the handle (as for standard torque wrenches). Both the square drive and fulcrum are on an axis which ensures a high degree of user safety; can be extended to reduce the user's working load.
- > Extremely low wear attributable to reduced forces in a unique lever mechanism
- > Forged lever chain from our own quality forge
- > Maximum precision even when subjected to extreme continuous use
- > Long life cycles and tool lives
- > Easy operation - fast and safe torque tightening
- > Easy adjustment thanks to attractive adjusting button secured against loss at the end of the handle
- > Single- and double-square drive for controlled bi-directional tightening



8560-03



Type	□"	■	Contents	N·m	lbf·in	lw	a	b	c			Code	No.
	3/8	10	in plastic box	8-40	70-350	262	30	17.5	338	5 N·m / 50 lbf·in	1.0	7682000	8560-01
	3/8	10	in a sheet-metal case	8-40	70-350	262	30	17.5	338	5 N·m / 50 lbf·in	2.2	7682270	8560-02
	3/8	10	Set mm ● 8 10 11 13 14 15 17 19 ● 4 5 6 8 ● 754-01  125 + 250 mm	8-40	70-350	262	30	17.5	338	5 N·m / 50 lbf·in	3.1	7682430	8560-03
	3/8	10	Set INCH ● 3/8 7/16 1/2 9/16 19/32 5/8 11/16 ● 1/4 5/16 3/8 ● 754-01  125 + 250 mm	8-40	70-350	262	30	17.5	338	5 N·m / 50 lbf·in	3.0	7683160	8560-04
	3/8	10	in plastic box	8-40	70-350	262	30	17.5	338	5 N·m / 50 lbf·in	1.0	7682190	8565-01
	3/8	10	in a sheet-metal case	8-40	70-350	262	30	17.5	338	5 N·m / 50 lbf·in	2.2	7682350	8565-02
	3/8	10	Set mm ● 8 10 11 13 14 15 17 19 ● 4 5 6 8 ● 754-01  125 + 250 mm	8-40	70-350	262	30	17.5	338	5 N·m / 50 lbf·in	3.1	7682940	8565-03
	3/8	10	Set INCH ● 3/8 7/16 1/2 9/16 19/32 5/8 11/16 ● 1/4 5/16 3/8 ● 754-01  125 + 250 mm	8-40	70-350	262	30	17.5	338	5 N·m / 50 lbf·in	3.0	7683240	8565-04



# 8561 B - 8566 BL

## TORQUE WRENCH DREMOMETER

25-120 N·m / 18-90 lbf·ft

**Use:**

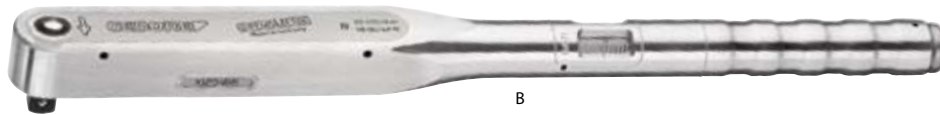
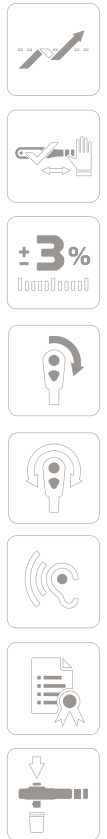
- > Controlled screw tightening in the range 25-120 N-m / 18-90 lbf-ft
- > For use in almost all industrial manufacturing areas

**Features:**

- > Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate. Working accuracy: +/- 3 % tolerance of scale set torque. The specification of the standard (+/- 4 %) is exceeded.
- > 1/2" square drive with ball locking device DIN 3120 - A 12.5, ISO 1174
- > Automatic short-path actuation with tactile impulse and audible signal
- > Dual scale with a scale graduation of 5 N-m and 5 lbf-ft
- > **With push-button release**

**Technical advantage/Function:**

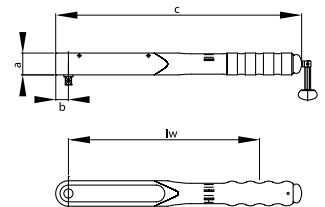
- > Lightweight and robust (as housing is made of an aluminium alloy), very workshop-friendly
- > No inaccuracies whether used with both hands or held away from the handle (as for standard torque wrenches). Both the square drive and fulcrum are on an axis which ensures a high degree of user safety; can be extended to reduce the user's working load.
- > Extremely low wear attributable to reduced forces in a unique lever mechanism
- > Forged lever chain from our own quality forge
- > Maximum precision even when subjected to extreme continuous use
- > Long life cycles and tool lives
- > Easy operation - fast and safe torque tightening
- > Easy adjustment thanks to attractive adjusting button secured against loss at the end of the handle
- > Single- and double-square drive for controlled bi-directional tightening



8561-03



BR



Type	□"	■	Contents	N-m	lbf-ft	lw	a	b	c	Tube	Scale	Weight	Code	No.
BR	1/2	12.5	in plastic box with ALU extension tube	25-120	18-90	373	30	17.5	462	8577-350	5 N-m / 5 lbf-ft	2.2	2926989	8561-001
B	1/2	12.5	in plastic box	25-120	18-90	373	30	17.5	462	-	5 N-m / 5 lbf-ft	1.5	7683320	8561-01
B	1/2	12.5	in a sheet-metal case	25-120	18-90	373	30	17.5	462	-	5 N-m / 5 lbf-ft	2.8	7683830	8561-02
B	1/2	12.5	Set mm ○ 11 13 14 17 19 22 24 ● 6 8 10 12 754-02 ← 76 + 125 + 250 mm	25-120	18-90	373	30	17.5	462	-	5 N-m / 5 lbf-ft	4.7	7684480	8561-03
B	1/2	12.5	Set INCH ○ 7/16 1/2 9/16 19/32 5/8 11/16 3/4 25/32 13/16 7/8 15/16 1" ● 5/16 3/8 1/2" 754-02 ← 76 + 125 + 250 mm	25-120	18-90	373	30	17.5	462	-	5 N-m / 5 lbf-ft	5.3	7684990	8561-04
BL	1/2	12.5	in plastic box	25-120	18-90	373	30	17.5	462	-	5 N-m / 5 lbf-ft	1.5	7683400	8566-01
BL	1/2	12.5	in a sheet-metal case	25-120	18-90	373	30	17.5	462	-	5 N-m / 5 lbf-ft	2.8	7684130	8566-02
BL	1/2	12.5	Set mm ○ 11 13 14 17 19 22 24 ● 6 8 10 12 754-02 ← 76 + 125 + 250 mm	25-120	18-90	373	30	17.5	462	-	5 N-m / 5 lbf-ft	4.7	7684640	8566-03
BL	1/2	12.5	Set INCH ○ 7/16 1/2 9/16 19/32 5/8 11/16 3/4 25/32 13/16 7/8 15/16 1" ● 5/16 3/8 1/2" 754-02 ← 76 + 125 + 250 mm	25-120	18-90	373	30	17.5	462	-	5 N-m / 5 lbf-ft	5.3	7685100	8566-04

# 8573 BC - 8578 BCL TORQUE WRENCH DREMOMETER

40-200 N·m / 30-150 lbf·ft

**Use:**

- > Controlled screw tightening in the range 40-200 N·m / 30-150 lbf·ft
- > For use in almost all industrial manufacturing areas

**Features:**

- > Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate. Working accuracy: +/- 3 % tolerance of scale set torque. The specification of the standard (+/- 4 %) is exceeded.
- > 1/2" square drive with ball locking device DIN 3120 - A 12.5, ISO 1174
- > Automatic short-path actuation with tactile impulse and audible signal
- > Dual scale with a scale graduation of 5 N·m and 5 lbf·ft
- > **With push-button release**

**Technical advantage/Function:**

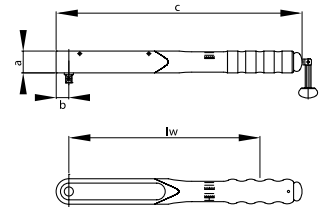
- > Lightweight and robust (as housing is made of an aluminium alloy), very workshop-friendly
- > No inaccuracies whether used with both hands or held away from the handle (as for standard torque wrenches). Both the square drive and fulcrum are on an axis which ensures a high degree of user safety; can be extended to reduce the user's working load.
- > Extremely low wear attributable to reduced forces in a unique lever mechanism
- > Forged lever chain from our own quality forge
- > Maximum precision even when subjected to extreme continuous use
- > Long life cycles and tool lives
- > Easy operation - fast and safe torque tightening
- > Easy adjustment thanks to attractive adjusting button secured against loss at the end of the handle
- > Single- and double-square drive for controlled bi-directional tightening



BC



8573-03



Type	□"	■	Contents	N·m	lbf·ft	lw	a	b	c			Code	No.
	1/2	12.5	in plastic box	40-200	30-150	463	30	17.5	551	5 N·m / 5 lbf·ft	1.4	7685530	8573-00
	1/2	12.5	in a sheet-metal case	40-200	30-150	463	30	17.5	551	5 N·m / 5 lbf·ft	3.5	7683590	8573-02
	1/2	12.5	Set mm ○ 11 13 14 17 19 21 22 24 27 ● 6 8 10 12 ⊗ 754-02  125 + 250 mm	40-200	30-150	463	30	17.5	551	5 N·m / 5 lbf·ft	5.1	7683910	8573-03
	1/2	12.5	Set INCH ○ 1/2 9/16 5/8 11/16 3/4 13/16 7/8" ● 5/16 3/8 1/2 9/16" ⊗ 754-02  125 + 250 mm	40-200	30-150	463	30	17.5	551	5 N·m / 5 lbf·ft	4.9	7684720	8573-04
	1/2	12.5	in plastic box	40-200	30-150	463	30	17.5	551	5 N·m / 5 lbf·ft	1.3	7683670	8578-00
	1/2	12.5	in a sheet-metal case	40-200	30-150	463	30	17.5	551	5 N·m / 5 lbf·ft	3.5	7683750	8578-02
	1/2	12.5	Set mm ○ 11 13 14 17 19 21 22 24 27 ● 6 8 10 12 ⊗ 754-02  125 + 250 mm	40-200	30-150	463	30	17.5	551	5 N·m / 5 lbf·ft	5.1	7684050	8578-03
	1/2	12.5	Set INCH ○ 1/2 9/16 5/8 11/16 3/4 13/16 7/8" ● 5/16 3/8 1/2 9/16" ⊗ 754-02  125 + 250 mm	40-200	30-150	463	30	17.5	551	5 N·m / 5 lbf·ft	4.9	7684210	8578-04



# 8562 C - 8567 CL

## TORQUE WRENCH DREMOMETER

60-300 N·m / 45-220 lbf·ft

**Use:**

- > Controlled screw tightening in the range 60-300 N·m / 45-220 lbf·ft
- > For use in almost all industrial manufacturing areas

**Features:**

- > Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate. Working accuracy: +/- 3 % tolerance of scale set torque. The specification of the standard (+/- 4 %) is exceeded.
- > 1/2" square drive with ball locking device DIN 3120 - A 12.5, ISO 1174
- > Automatic short-path actuation with tactile impulse and audible signal
- > Dual scale with a scale graduation of 5 N·m and 5 lbf·ft
- > **With push-button release**

**Technical advantage/Function:**

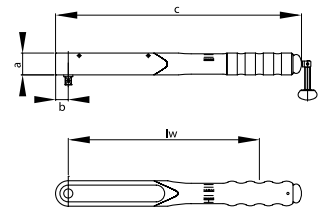
- > Lightweight and robust (as housing is made of an aluminium alloy), very workshop-friendly
- > No inaccuracies whether used with both hands or held away from the handle (as for standard torque wrenches). Both the square drive and fulcrum are on an axis which ensures a high degree of user safety; can be extended to reduce the user's working load.
- > Extremely low wear attributable to reduced forces in a unique lever mechanism
- > Forged lever chain from our own quality forge
- > Maximum precision even when subjected to extreme continuous use
- > Long life cycles and tool lives
- > Easy operation - fast and safe torque tightening
- > Easy adjustment thanks to attractive adjusting button secured against loss at the end of the handle
- > Single- and double-square drive for controlled bi-directional tightening



8562-30



CR



Type	□	■	Contents	N·m	lbf·ft	lw	a	b	c	Tube	Scale	Weight	Code	No.
CR	1/2	12.5	in plastic box with ALU extension tube	60-300	45-220	529	30	17.5	617	8577-700	5 N·m / 5 lbf·ft	2.7	2926997	8562-001
C	1/2	12.5	in plastic box	60-300	45-220	529	30	17.5	617	-	5 N·m / 5 lbf·ft	2.0	7685450	8562-10
C	1/2	12.5	in a sheet-metal case	60-300	45-220	529	30	17.5	617	-	5 N·m / 5 lbf·ft	3.6	7686340	8562-20
C	1/2	12.5	Set mm ○ 17 19 22 24 27 30 32 ● 8 10 12 14 ⊕ 754-02 ← 76 + 125 + 250 mm	60-300	45-220	529	30	17.5	617	-	5 N·m / 5 lbf·ft	6.0	7687070	8562-30
C	1/2	12.5	Set INCH ○ 3/4 25/32 13/16 7/8 15/16 1" 1.1/16 1.1/8 1.1/4" ● 3/8 1/2 9/16 5/8" ⊕ 754-02 ← 76 + 125 + 250 mm	60-300	45-220	529	30	17.5	617	-	5 N·m / 5 lbf·ft	6.2	7687820	8562-40
CL	1/2	12.5	in plastic box	60-300	45-220	529	30	17.5	617	-	5 N·m / 5 lbf·ft	2.0	7685960	8567-10
CL	1/2	12.5	in a sheet-metal case	60-300	45-220	529	30	17.5	617	-	5 N·m / 5 lbf·ft	3.6	7686690	8567-20
CL	1/2	12.5	Set mm ○ 17 19 22 24 27 30 32 ● 8 10 12 14 ⊕ 754-02 ← 76 + 125 + 250 mm	60-300	45-220	529	30	17.5	617	-	5 N·m / 5 lbf·ft	6.0	7687310	8567-30
CL	1/2	12.5	Set INCH ○ 3/4 25/32 13/16 7/8 15/16 1" 1.1/16 1.1/8 1.1/4" ● 3/8 1/2 9/16 5/8" ⊕ 754-02 ← 76 + 125 + 250 mm	60-300	45-220	529	30	17.5	617	-	5 N·m / 5 lbf·ft	6.2	7688120	8567-40



# 8570 CD - 8575 CDL TORQUE WRENCH DREMOMETER

80-360 N·m / 60-260 lbf·ft

**Use:**

- > Controlled screw tightening in the range 80-360 N·m / 60-260 lbf·ft
- > For use in almost all industrial manufacturing areas

**Features:**

- > Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate. Working accuracy: +/- 3 % tolerance of scale set torque. The specification of the standard (+/- 4 %) is exceeded.
- > 3/4" square drive with pin-locking mechanism as per DIN 3120 - B 20, ISO 1174
- > Automatic short-path actuation with tactile impulse and audible signal
- > Dual scale with a scale graduation of 5 N·m and 5 lbf·ft

**Technical advantage/Function:**

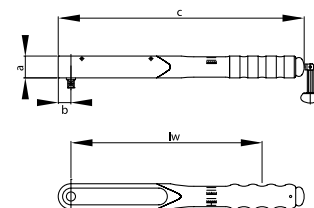
- > Lightweight and robust (as housing is made of an aluminium alloy), very workshop-friendly
- > No inaccuracies whether used with both hands or held away from the handle (as for standard torque wrenches). Both the square drive and fulcrum are on an axis which ensures a high degree of user safety; can be extended to reduce the user's working load.
- > Extremely low wear attributable to reduced forces in a unique lever mechanism
- > Forged lever chain from our own quality forge
- > Maximum precision even when subjected to extreme continuous use
- > Long life cycles and tool lives
- > Easy operation - fast and safe torque tightening
- > Easy adjustment thanks to attractive adjusting button secured against loss at the end of the handle
- > Single- and double-square drive for controlled bi-directional tightening



8570-30



CDR



Type	■"	■	Contents	N·m	lbf·ft	lw	a	b	c	Tube	📏	⚖️	Code	No.
CDR	3/4	20	in plastic box with ALU extension tube	80-360	60-260	624	30	22.5	717	8577-700	5 N·m / 5 lbf·ft	3.1	2927004	8570-001
CD	3/4	20	in plastic box	80-360	60-260	624	30	22.5	717	-	5 N·m / 5 lbf·ft	2.4	7688470	8570-10
CD	3/4	20	in a sheet-metal case	80-360	60-260	624	30	22.5	717	-	5 N·m / 5 lbf·ft	6.2	7689280	8570-20
CD	3/4	20	Set mm ○ 19 22 24 27 30 32 🔗 754-04 → 200 + 400 mm	80-360	60-260	624	30	22.5	717	-	5 N·m / 5 lbf·ft	11.0	7689950	8570-30
CD	3/4	20	Set INCH ○ 7/8 15/16 1" 1.1/8 1.1/4 1.3/8 1.1/2 1.5/8" 🔗 754-04 → 200 + 400 mm	80-360	60-260	624	30	22.5	717	-	5 N·m / 5 lbf·ft	11.3	7690530	8570-40
CDL	3/4	20	in plastic box	80-360	60-260	624	30	22.5	717	-	5 N·m / 5 lbf·ft	2.4	7688710	8575-10
CDL	3/4	20	in a sheet-metal case	80-360	60-260	624	30	22.5	717	-	5 N·m / 5 lbf·ft	6.2	7689520	8575-20
CDL	3/4	20	Set mm ○ 19 22 24 27 30 32 🔗 754-04 → 200 + 400 mm	80-360	60-260	624	30	22.5	717	-	5 N·m / 5 lbf·ft	11.0	7690290	8575-30
CDL	3/4	20	Set INCH ○ 7/8 15/16 1" 1.1/8 1.1/4 1.3/8 1.1/2 1.5/8" 🔗 754-04 → 200 + 400 mm	80-360	60-260	624	30	22.5	717	-	5 N·m / 5 lbf·ft	11.3	7691180	8575-40



# 8574 DS - 8579 DSL TORQUE WRENCH DREMOMETER

110-550 N·m / 80-400 lbf·ft

**Use:**

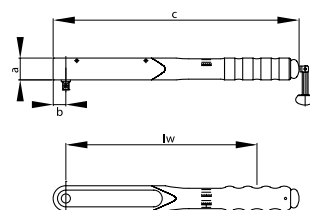
- > Controlled screw tightening in the range 110-550 N·m / 80-400 lbf·ft
- > For use in almost all industrial manufacturing areas

**Features:**

- > Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate. Working accuracy: +/- 3 % tolerance of scale set torque. The specification of the standard (+/- 4 %) is exceeded.
- > 3/4" square drive with pin-locking mechanism DIN 3120 - B 20, ISO 1174
- > Automatic short-path actuation with tactile impulse and audible signal
- > Dual scale with a scale graduation of 10 N·m and 10 lbf·ft

**Technical advantage/Function:**

- > Lightweight and robust (as housing is made of an aluminium alloy), very workshop-friendly
- > No inaccuracies whether used with both hands or held away from the handle (as for standard torque wrenches). Both the square drive and fulcrum are on an axis which ensures a high degree of user safety; can be extended to reduce the user's working load.
- > Extremely low wear attributable to reduced forces in a unique lever mechanism
- > Forged lever chain from our own quality forge
- > Maximum precision even when subjected to extreme continuous use
- > Long life cycles and tool lives
- > Easy operation - fast and safe torque tightening
- > Easy adjustment thanks to attractive adjusting button secured against loss at the end of the handle
- > Single- and double-square drive for controlled bi-directional tightening



Type	■"	■	Contents	N·m	lbf·ft	lw	a	b	c			Code	No.
DS	3/4	20	in plastic box	110-550	80-400	719	35	22.5	812	10 N·m / 10 lbf·ft	2.9	1427156	8574-10
DS	3/4	20	in a sheet-metal case	110-550	80-400	719	35	22.5	812	10 N·m / 10 lbf·ft	6.7	1436112	8574-20
DSL	3/4	20	in plastic box	110-550	80-400	719	35	22.5	812	10 N·m / 10 lbf·ft	2.9	1427121	8579-10
DSL	3/4	20	in a sheet-metal case	110-550	80-400	719	35	22.5	812	10 N·m / 10 lbf·ft	6.7	1436120	8579-20

920 / 922 >565

754 >281

DVV-40ZRS >335

# 8563 D - 8568 DL

## TORQUE WRENCH DREMOMETER

155-760 N·m / 115-560 lbf·ft

### Use:

- > Controlled screw tightening in the range 155-760 N·m / 115-560 lbf·ft
- > For use in almost all industrial manufacturing areas

### Features:

- > Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate. Working accuracy: +/- 3 % tolerance of scale set torque. The specification of the standard (+/- 4 %) is exceeded.
- > 3/4" square drive with pin-locking mechanism DIN 3120 - B 20, ISO 1174
- > Automatic short-path actuation with tactile impulse and audible signal
- > Dual scale with a scale graduation of 10 N·m and 10 lbf·ft

### Technical advantage/Function:

- > Lightweight and robust (as housing is made of an aluminium alloy), very workshop-friendly
- > No inaccuracies whether used with both hands or held away from the handle (as for standard torque wrenches). Both the square drive and fulcrum are on an axis which ensures a high degree of user safety; can be extended to reduce the user's working load.
- > Extremely low wear attributable to reduced forces in a unique lever mechanism
- > Forged lever chain from our own quality forge
- > Maximum precision even when subjected to extreme continuous use
- > Long life cycles and tool lives
- > Easy operation - fast and safe torque tightening
- > Easy adjustment thanks to attractive adjusting button secured against loss at the end of the handle
- > Single- and double-square drive for controlled bi-directional tightening



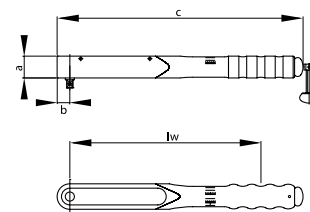
DL



D



8563-30



Type	□"	■	Contents	N·m	lbf·ft	lw	a	b	c			Code	No.
D	3/4	20	in plastic box	155-760	115-560	719	35	22.5	812	10 N·m / 10 lbf·ft	3.2	7691500	8563-10
D	3/4	20	in a sheet-metal case	155-760	115-560	719	35	22.5	812	10 N·m / 10 lbf·ft	7.7	7692070	8563-20
D	3/4	20	Set mm ○ 22 24 27 30 32 36 41 46 ⊗ 754-04  200 + 400 mm	155-760	115-560	719	35	22.5	812	10 N·m / 10 lbf·ft	13.6	7692660	8563-30
D	3/4	20	Set INCH ○ 1" 1.1/8 1.1/4 1.5/16 1.3/8 1.7/16 1.1/2 1.5/8 1.3/4 1.13/16 1.7/8 2" ⊗ 754-04  200 + 400 mm	155-760	115-560	719	35	22.5	812	10 N·m / 10 lbf·ft	13.3	7693200	8563-40
DL	3/4	20	in plastic box	155-760	115-560	719	35	22.5	812	10 N·m / 10 lbf·ft	3.2	7691850	8568-10
DL	3/4	20	in a sheet-metal case	155-760	115-560	719	35	22.5	812	10 N·m / 10 lbf·ft	7.7	7692310	8568-20
DL	3/4	20	Set mm ○ 22 24 27 30 32 36 41 46 ⊗ 754-04  200 + 400 mm	155-760	115-560	719	35	22.5	812	10 N·m / 10 lbf·ft	13.6	7692900	8568-30
DL	3/4	20	Set INCH ○ 1" 1.1/8 1.1/4 1.5/16 1.3/8 1.7/16 1.1/2 1.5/8 1.3/4 1.13/16 1.7/8 2" ⊗ 754-04  200 + 400 mm	155-760	115-560	719	35	22.5	812	10 N·m / 10 lbf·ft	13.3	7693550	8568-40

# 8563 DR - 8568 DRL TORQUE WRENCH DREMOMETER

155-760 N·m / 115-560 lbf·ft

**Use:**

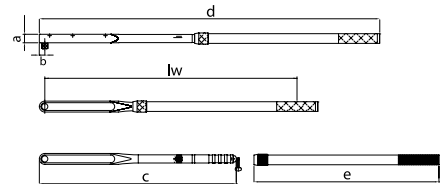
- > Controlled screw tightening in the range 155-760 N·m / 115-560 lbf·ft
- > For use in almost all industrial manufacturing areas

**Features:**

- > Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate. Working accuracy: +/- 3 % tolerance of scale set torque. The specification of the standard (+/- 4 %) is exceeded.
- > 3/4" square drive with pin-locking mechanism DIN 3120 - B 20, ISO 1174
- > Automatic short-path actuation with tactile impulse and audible signal
- > Dual scale with a scale graduation of 10 N·m and 10 lbf·ft

**Technical advantage/Function:**

- > Lightweight and robust (as housing is made of an aluminium alloy), very workshop-friendly
- > No inaccuracies whether used with both hands or held away from the handle (as for standard torque wrenches). Both the square drive and fulcrum are on an axis which ensures a high degree of user safety; can be extended to reduce the user's working load.
- > Extremely low wear attributable to reduced forces in a unique lever mechanism
- > Forged lever chain from our own quality forge
- > Maximum precision even when subjected to extreme continuous use
- > Long life cycles and tool lives
- > Easy operation - fast and safe torque tightening
- > Easy adjustment thanks to attractive adjusting button secured against loss at the end of the handle
- > Single- and double-square drive for controlled bi-directional tightening



Type	□	■	Contents	N·m	lbf·ft	lw	a	b	c	d	e	Tube	Scale	Weight	Code	No.
DR	3/4	20	in plastic box with extension tube	155-760	115-560	1,290.5	35	22.5	812	1403	762	8571-80	10 N·m / 10 lbf·ft	5.0	7670180	8563-01
DR	3/4	20	in a sheet-metal case with extension tube	155-760	115-560	1,290.5	35	22.5	812	1403	762	8571-80	10 N·m / 10 lbf·ft	8.8	7670260	8563-02
DR	3/4	20	Set mm ○ 22 24 27 30 32 36 41 46 ⊗ 754-04 ← 200 + 400 mm	155-760	115-560	1,290.5	35	22.5	812	1403	762	8571-80	10 N·m / 10 lbf·ft	14.4	7670340	8563-03
DR	3/4	20	Set INCH ○ 1" 1.1/8 1.1/4 1.5/16 1.3/8 1.7/16 1.1/2 1.5/8 1.3/4 1.13/16 1.7/8 2" ⊗ 754-04 ← 200 + 400 mm	155-760	115-560	1,290.5	35	22.5	812	1403	762	8571-80	10 N·m / 10 lbf·ft	16.7	7670420	8563-04
DRL	3/4	20	in plastic box with extension tube	155-760	115-560	1,290.5	35	22.5	812	1403	762	8571-80	10 N·m / 10 lbf·ft	5.0	7670500	8568-01
DRL	3/4	20	in a sheet-metal case with extension tube	155-760	115-560	1,290.5	35	22.5	812	1403	762	8571-80	10 N·m / 10 lbf·ft	8.8	7670690	8568-02
DRL	3/4	20	Set mm ○ 22 24 27 30 32 36 41 46 ⊗ 754-04 ← 200 + 400 mm	155-760	115-560	1,290.5	35	22.5	812	1403	762	8571-80	10 N·m / 10 lbf·ft	14.4	7670770	8568-03
DRL	3/4	20	Set INCH ○ 1" 1.1/8 1.1/4 1.5/16 1.3/8 1.7/16 1.1/2 1.5/8 1.3/4 1.13/16 1.7/8 2" ⊗ 754-04 ← 200 + 400 mm	155-760	115-560	1,290.5	35	22.5	812	1403	762	8571-80	10 N·m / 10 lbf·ft	16.7	7670850	8568-04
DR-LKW	3/4	20	Set mm ○ 27 30 32 ⊗ 754-04 ← 400 mm	155-760	115-560	1,290.5	35	22.5	812	1403	762	8571-80	10 N·m / 10 lbf·ft	12.3	7670930	8568-35

# 8571 DX - 8576 DXL TORQUE WRENCH DREMOMETER

520-1000 N·m / 380-730 lbf·ft

**Use:**

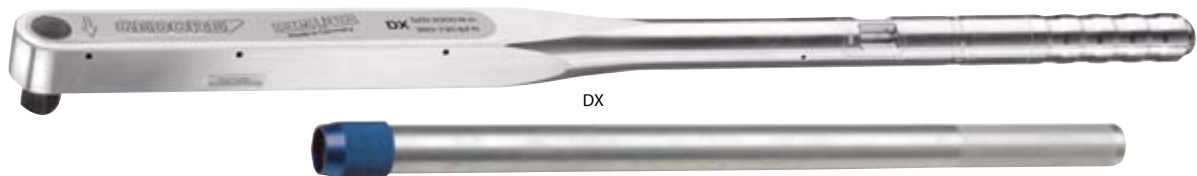
- > Controlled screw tightening in the range 520-1000 N·m / 380-730 lbf·ft
- > For use in almost all industrial manufacturing areas

**Features:**

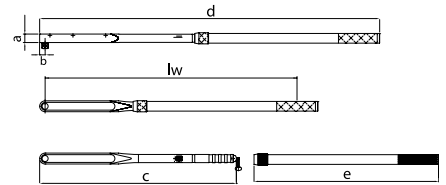
- > Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate. Working accuracy: +/- 3 % tolerance of scale set torque. The specification of the standard (+/- 4 %) is exceeded.
- > 3/4" square drive with pin-locking mechanism DIN 3120 - B 20, ISO 1174
- > Automatic short-path actuation with tactile impulse and audible signal
- > Dual scale with a scale graduation of 10 N·m and 10 lbf·ft

**Technical advantage/Function:**

- > Lightweight and robust (as housing is made of an aluminium alloy), very workshop-friendly
- > No inaccuracies whether used with both hands or held away from the handle (as for standard torque wrenches). Both the square drive and fulcrum are on an axis which ensures a high degree of user safety; can be extended to reduce the user's working load.
- > Extremely low wear attributable to reduced forces in a unique lever mechanism
- > Forged lever chain from our own quality forge
- > Maximum precision even when subjected to extreme continuous use
- > Long life cycles and tool lives
- > Easy operation - fast and safe torque tightening
- > Easy adjustment thanks to attractive adjusting button secured against loss at the end of the handle
- > Single- and double-square drive for controlled bi-directional tightening



8571-03



Type	□"	■	Contents	N·m	lbf·ft	lw	a	b	c	d	e	Tube	Scale	Weight	Code	No.
DX	3/4	20	in plastic box with ALU extension tube	520-1000	380-730	1,290.5	35	22.5	812	1403	762	8571-80	10 N·m / 10 lbf·ft	5.6	7694010	8571-01
DX	3/4	20	in a sheet-metal case with ALU extension tube	520-1000	380-730	1,290.5	35	22.5	812	1403	762	8571-80	10 N·m / 10 lbf·ft	10.0	7694520	8571-02
DX	3/4	20	Set mm 30 32 36 41 46 50 754-04 200 + 400 mm	520-1000	380-730	1,290.5	35	22.5	812	1403	762	8571-80	10 N·m / 10 lbf·ft	16.8	7694870	8571-03
DX	3/4	20	Set INCH 1.1/8 1.1/4 1.3/8 1.1/2 1.3/4 1.7/8" 754-04 200 + 400 mm	520-1000	380-730	1,290.5	35	22.5	812	1403	762	8571-80	10 N·m / 10 lbf·ft	16.0	7695170	8571-04
DXL	3/4	20	in plastic box with ALU extension tube	520-1000	380-730	1,290.5	35	22.5	812	1403	762	8571-80	10 N·m / 10 lbf·ft	5.6	7694360	8576-01
DXL	3/4	20	in a sheet-metal case with ALU extension tube	520-1000	380-730	1,290.5	35	22.5	812	1403	762	8571-80	10 N·m / 10 lbf·ft	10.0	7694600	8576-02
DXL	3/4	20	Set mm 30 32 36 41 46 50 754-04 200 + 400 mm	520-1000	380-730	1,290.5	35	22.5	812	1403	762	8571-80	10 N·m / 10 lbf·ft	16.8	7694950	8576-03
DXL	3/4	20	Set INCH 1.1/8 1.1/4 1.3/8 1.1/2 1.3/4 1.7/8" 754-04 200 + 400 mm	520-1000	380-730	1,290.5	35	22.5	812	1403	762	8571-80	10 N·m / 10 lbf·ft	16.0	7695330	8576-04



# 8581 EK - 8586 EKL TORQUE WRENCH DREMOMETER

600-1500 N·m

**Use:**

- > Controlled screw tightening in the range 600-1500 N·m
- > For use in almost all industrial manufacturing areas

**Features:**

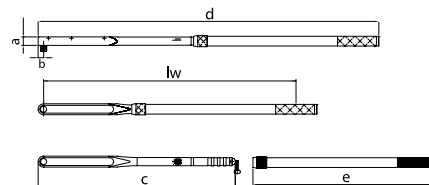
- > Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate. Working accuracy: +/- 3 % tolerance of scale set torque. The specification of the standard (+/- 4 %) is exceeded.
- > 1" square drive with pin-locking mechanism DIN 3120 - B25, ISO 1174
- > Automatic short-path actuation with tactile impulse and audible signal
- > Single scale with a scale graduation of 25 N·m

**Technical advantage/Function:**

- > Lightweight and robust (as housing is made of an aluminium alloy), very workshop-friendly
- > No inaccuracies whether used with both hands or held away from the handle (as for standard torque wrenches). Both the square drive and fulcrum are on an axis which ensures a high degree of user safety; can be extended to reduce the user's working load.
- > Extremely low wear attributable to reduced forces in a unique lever mechanism
- > Forged lever chain from our own quality forge
- > Maximum precision even when subjected to extreme continuous use
- > Long life cycles and tool lives
- > Easy operation - fast and safe torque tightening
- > Easy adjustment thanks to attractive adjusting button secured against loss at the end of the handle
- > Single- and double-square drive for controlled bi-directional tightening



8581-02



Type	█"	█	Contents	N·m	lw	a	b	c	d	e	Tube			Code	No.
EK	1	25	with 1 extension tube	600-1500	1473	40	30	932	1608	925	8564-92	25 N·m	10.8	2311267	8581-01
EK	1	25	in sheet-metal case with 1 extension tube	600-1500	1473	40	30	932	1608	925	8564-92	25 N·m	24.3	2311275	8581-02
EK	1	25	Set mm ○ 36 41 46 50 55 60 65 70 ⊗ 754-06  200 + 400 mm	600-1500	1473	40	30	932	1608	925	8564-92	25 N·m	42.4	2311283	8581-03
EKL	1	25	with 1 extension tube	600-1500	1473	40	30	932	1608	925	8564-92	25 N·m	10.8	2311291	8586-01
EKL	1	25	in sheet-metal case with 1 extension tube	600-1500	1473	40	30	932	1608	925	8564-92	25 N·m	24.3	2311305	8586-02
EKL	1	25	Set mm ○ 36 41 46 50 55 60 65 70 ⊗ 754-06  200 + 400 mm	600-1500	1473	40	30	932	1608	925	8564-92	25 N·m	42.4	2311313	8586-03

# 8564 E - 8569 EL TORQUE WRENCH DREMOMETER

750-2000 N·m

**Use:**

- > Controlled screw tightening in the range 750-2000 N·m
- > For use in almost all industrial manufacturing areas

**Features:**

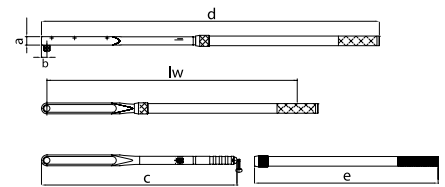
- > Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate. Working accuracy: +/- 3 % tolerance of scale set torque. The specification of the standard (+/- 4 %) is exceeded.
- > 1" square drive with pin-locking mechanism DIN 3120 - B25, ISO 1174
- > Automatic short-path actuation with tactile impulse and audible signal
- > Single scale with a scale graduation of 50 N·m

**Technical advantage/Function:**

- > Lightweight and robust (as housing is made of an aluminium alloy), very workshop-friendly
- > No inaccuracies whether used with both hands or held away from the handle (as for standard torque wrenches). Both the square drive and fulcrum are on an axis which ensures a high degree of user safety; can be extended to reduce the user's working load.
- > Extremely low wear attributable to reduced forces in a unique lever mechanism
- > Forged lever chain from our own quality forge
- > Maximum precision even when subjected to extreme continuous use
- > Long life cycles and tool lives
- > Easy operation - fast and safe torque tightening
- > Easy adjustment thanks to attractive adjusting button secured against loss at the end of the handle
- > Single- and double-square drive for controlled bi-directional tightening



8564-02



Type	█"	█	Contents	N·m	lw	a	b	c	d	e	f	Tube			Code	No.
E	1	25	 with 2 extension tubes	750-2000	2213	40	30.0	932	2353	925	745	8564-92 / 8572-74	50 N·m	12.0	7695250	8564-01
E	1	25	 in sheet-metal case with 2 extension tubes	750-2000	2213	40	30.0	932	2353	925	745	8564-92 / 8572-74	50 N·m	21.2	7695680	8564-02
E	1	25	 Set mm ⊙ 36 41 46 50 55 60 65 70 ⊙ 754-06  200 + 400 mm	750-2000	2213	40	30.0	932	2353	925	745	8564-92 / 8572-74	50 N·m	42.4	7696060	8564-03
EL	1	25	 with 2 extension tubes	750-2000	2213	40	30.0	932	2353	925	745	8564-92 / 8572-74	50 N·m	12.0	7695410	8569-01
EL	1	25	 in sheet-metal case with 2 extension tubes	750-2000	2213	40	30.0	932	2353	925	745	8564-92 / 8572-74	50 N·m	21.4	7695840	8569-02
EL	1	25	 Set mm ⊙ 36 41 46 50 55 60 65 70 ⊙ 754-06  200 + 400 mm	750-2000	2213	40	30.0	932	2353	925	745	8564-92 / 8572-74	50 N·m	42.4	7696140	8569-03



# 8572 F TORQUE WRENCH DREMOMETER

1500-3000 N·m

**Use:**

- > Controlled screw tightening in the range 1500-3000 N·m
- > For use in almost all industrial manufacturing areas

**Features:**

- > Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate. Working accuracy: +/- 3 % tolerance of scale set torque. The specification of the standard (+/- 4 %) is exceeded.
- > 1.1/2" square drive with pin-locking mechanism DIN 3121 - F 40, ISO 1174
- > Automatic short-path actuation with tactile impulse and audible signal
- > Single scale with scale graduation 50 N·m

**Technical advantage/Function:**

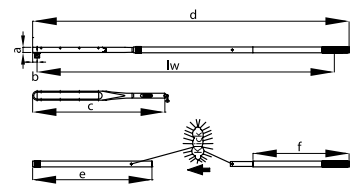
- > Lightweight and robust (as housing is made of an aluminium alloy), very workshop-friendly
- > No inaccuracies whether used with both hands or held away from the handle (as for standard torque wrenches). Both the square drive and fulcrum are on an axis which ensures a high degree of user safety; can be extended to reduce the user's working load.
- > Extremely low wear attributable to reduced forces in a unique lever mechanism
- > Forged lever chain from our own quality forge
- > Maximum precision even when subjected to extreme continuous use
- > Long life cycles and tool lives
- > Easy operation - fast and safe torque tightening
- > Easy adjustment thanks to attractive adjusting button secured against loss at the end of the handle
- > Single square drive for controlled clockwise tightening



F



8572-02



Type	█"	█	Contents	N·m	lw	a	b	c	d	e	f	Tube			Code	No.
F	1.1/2	40	with 2 extension tubes	1500-3000	2309	40	35.0	1037	2454	925	745	8564-92 / 8572-74	50 N·m	15.0	7717160	8572-01
F	1.1/2	40	in sheet-metal case with 2 extension tubes	1500-3000	2309	40	35.0	1037	2454	925	745	8564-92 / 8572-74	50 N·m	21.2	7717240	8572-02

## TECHNICAL INFORMATION



After being used, torque wrenches should where possible be turned back to the minimum scale value. This helps to preserve the springs and ensures a longer product life cycle with high precision.

On request, all torque wrenches can be factory pre-set **-at extra charge-** When ordering, please specify the N·m value





## Accessories DREMOMETER

# RATCHET HEADS DREMOMETER 754

> Ratchet head no. 754 can only be used in combination with the DREMOMETER. Please note the right direction of rotation by the ratchet head when ordering. There are separate models for clockwise or counter-clockwise rotation. Ratchet head nos. 754-11 to 754-16 (counter-clockwise) can only be used with the DREMOMETER with double square drive.



## 754 RATCHET HEAD DREMOMETER

**Use:**

> Enables controlled torque tightening in combination with a DREMOMETER torque wrench (Type MINI - E)

**Features:**

- > Fine-pitched, sturdy ratchet head
- > With 1/4", 3/8", 1/2", 3/4" or 1" output square drive
- > Clockwise models (no. 754-00 to -06)
- > Anti-clockwise models (no. 754-11 to -16)
- > Made of chrome-vanadium steel

**Scope of delivery:**

- > Ratchet head
- > Single packed in poly-bag

\* Max. continuous load of ratchet according to DIN EN ISO 6789:2003 and/or maximum load of cavity



□"	■"	H	∅ mm	∠°	Use	Execution	Continuous load*	kg	Code	No.
1/4	1/4	20	24	18,0	MINI, AM	clockwise	1/4" = 30 N-m	0.054	7680490	754-00
3/8	3/8	28	35	20,0	A	clockwise	3/8" = 135 N-m	0.150	7680570	754-01
1/2	1/2	36	46	7,5	B, BC, C	clockwise	1/2" = 340 N-m	0.350	7680650	754-02
3/4	3/4	56	65	10,0	CD, DS, D, DR, DX	clockwise	3/4" = 1000 N-m	1.000	7680730	754-04
1	1	62	73	10,0	E / EK	clockwise	1" = 2000 N-m	1.800	7680810	754-06
3/8	3/8	28	35	20,0	AL	counter-clockwise	3/8" = 135 N-m	0.150	7686770	754-11
1/2	1/2	36	46	7,5	BL, BCL, CL	counter-clockwise	1/2" = 340 N-m	0.350	7686850	754-12
3/4	3/4	56	65	10,0	CDL, DSL, DL, DRL, DXL	counter-clockwise	3/4" = 1000 N-m	1.000	7686930	754-14
1	1	62	73	10,0	EL / EKL	counter-clockwise	1" = 2000 N-m	1.800	7687150	754-16

## 8564 - 8572 EXTENSION TUBES FOR DREMOMETER E - F

**Use:**

- > Spare extension tube for torque wrench series DREMOMETER E - F
- > To enable high torque values by means of extending the lever arm

**Features:**

> Guarantees proof connection to the

**DREMOMETER**

- > Ideal for extending the lever arm
- > Made from high-grade, galvanised steel

**Scope of delivery:**

- > Extension tube
- > Single packed in poly-bag



## 8571 - 8577 EXTENSION TUBES ALU FOR DREMOMETER A - CD

**NEW**

**Use:**

- > Spare extension tube for torque wrench series DREMOMETER A - CD, DR, DX
- > To enable high torque values by means of extending the lever arm

**Features:**

> Guarantees proof connection to the DREMOMETER

- > Ideal for extending the lever arm
- > Made from high-grade aluminium with anodised locknut - extremely lightweight

**Scope of delivery:**

- > Extension tube
- > Single packed in poly-bag



Use	Execution	∣ mm ∣	kg	Code	No.
<b>DREMOMETER E/F</b>	extension only	745	3.550	7622020	8572-74
<b>DREMOMETER E/EK/F</b>	with locknut	925	3.490	7621720	8564-92

Use	∣ mm ∣	kg	Code	No.
<b>DREMOMETER A-CD</b>	350	0.400	2880164	8577-350
<b>DREMOMETER A-CD</b>	700	0.850	2880032	8577-700
<b>DREMOMETER DR/DX</b>	762	0.750	1686313	8571-80

## DREMOMETER MINI / T-FS

# 753 TORQUE WRENCH DREMOMETER MINI

2.5-12 N·m / 22-106 lbf·in

**Use:**

- > Controlled screw tightening in the range 2.5 - 12 N·m / 22.5 - 106 lbf·in
- > For use in almost all industrial manufacturing areas

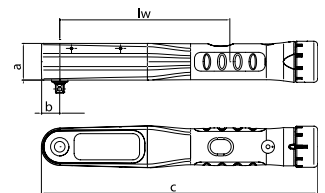
**Features:**

- > Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate. Working accuracy: +/- 3% tolerance of scale set torque. The specification of the standard (+/- 4%) is exceeded.
- > Torque wrench with 1/4" square drive with ball locking device DIN 3120 - A 6.3, similar to ISO 1174, for controlled clockwise tightening
- > Automatic short-path actuation with tactile impulse and audible signal
- > Lightweight plastic casing, made from high-grade, glass-fibre reinforced polyamide, with soft-grip handle
- > Dual scale with a scale graduation of 0.5 N·m and 5 lbf·in

- > Additional micrometre scale for setting interim values with N·m, graduations of 0.05 N·m
- > Window with a magnifying-glass effect
- > Locking button enables reliable locking of the torque setting

**Scope of delivery:**

- > Torque wrench type MINI
- > With certificate acc. to DIN EN ISO 6789:2003, traceable via in-house DAKKS laboratory to national standards



Type	1/4"	6.3	Contents	N·m	lbf·in	lw	a	b	c	Scale	Weight	Code	No.
MINI	1/4	6.3	in plastic box	2,5-12	22,5-106	130	28	14	211	0,5 N·m / 5 lbf·in + 0,05 N·m	0.320	1957694	753-11
MINI	1/4	6.3	in plastic cassette	2,5-12	22,5-106	130	28	14	211	0,5 N·m / 5 lbf·in + 0,05 N·m	0.628	1957708	753-12
MINI	1/4	6.3	Set mm ○ 4 5 5.5 6 7 8 9 10 ⊕ 1 2 3 ⊖ 4 5.5 6.5 ● 3 4 5 6 ● T20 T27 T30 ⊕ 754-00 ← 55 + 97 mm 2098	2,5-12	22,5-106	130	28	14	211	0,5 N·m / 5 lbf·in + 0,05 N·m	0.968	1957724	753-13
MINI	1/4	6.3	Set INCH ○ 3/16 7/32 1/4 9/32 5/16 11/32 3/8 7/16" ⊕ 1 2 3 ⊖ 4 5.5 6.5 ● 3 4 5 6 ● T20 T27 T30 ⊕ 754-00 ← 55 + 97 mm 2098	2,5-12	22,5-106	130	28	14	211	0,5 N·m / 5 lbf·in + 0,05 N·m	0.968	1957732	753-14

# 763 TORQUE WRENCH DREMOMETER T-FS

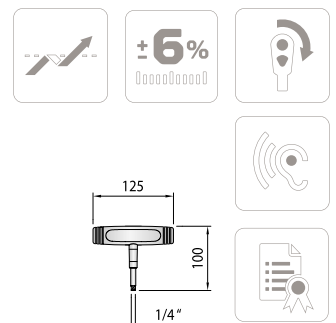
pre-set, 5-12 N·m

**Use:**

- > Power-saving application for torques which are usually in the range of torque screwdrivers
- > E.g. securing modules on solar power systems, tool supports etc.; wherever the torques are too large for classic torque screwdrivers

**Features:**

- > Torque wrench series with 8 pre-set models for serial production
- > For controlled clockwise tightening
- > Working accuracy in accordance with DIN EN ISO 6789:2003 Type II Class E (+/- 6%)
- > Lightweight and robust - housing made of a high-quality aluminium alloy
- > With certificate acc. to DIN EN ISO 6789:2003, traceable via in-house DAKKS laboratory to national standards



Special ranges are available on request

1/4"	6.3	pre-set value	Weight	Code	No.
1/4	6.3	5 N·m	0.241	1947958	763-05
1/4	6.3	6 N·m	0.241	1947966	763-06
1/4	6.3	7 N·m	0.241	1947974	763-07
1/4	6.3	8 N·m	0.241	1947990	763-08
1/4	6.3	9 N·m	0.241	1948008	763-09
1/4	6.3	10 N·m	0.241	1948016	763-10
1/4	6.3	11 N·m	0.241	1948024	763-11
1/4	6.3	12 N·m	0.241	1948032	763-12

# DREMOMETER Z

## TECHNICAL INFORMATION Z

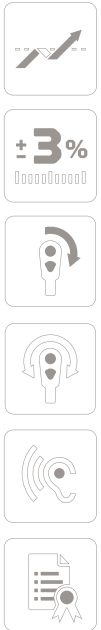
- > The large cross-section of the spigot end transfers a maximum torque. "Quick-change system" with a locking pin mechanism guarantees that work takes place flexibly and rapidly.
- > Ideal for bolted connections in cramped and hard-to-access locations. Depending on how the torque wrench is used, it is possible to work both in the forward direction and also to the side. For anti-clockwise tightening, simply turn the torque wrench through 180°



## 8460 Z - 8471 Z TORQUE WRENCH DREMOMETER Z WITH QUICK-FITTING CHANGE

8-1000 N·m / 70 lbf·in - 730 lbf·ft

- > Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate. Working accuracy: +/- 3 % tolerance of scale set torque. The specification of the standard (+/- 4 %) is exceeded.
- > Lightweight yet robust (as the housing is made of an aluminium alloy) and resilient, very workshop-friendly
- > Depending on the application, access is possible from the front (e.g. open-end fitting) or side (e.g. reversible ratchet and socket)
- > Force to be applied in the middle of the handgrip only - do not use an extension tube as otherwise, inaccuracies can evolve (except for model DXZ where the DREMOMETER has been calibrated and adjusted using the extension tube)
- > Operation only with end fittings with standardised depth gauges, otherwise inaccuracies can arise. Keep the depth gauges on the certificate in mind. Only use original GEDORE accessories.
- > Large drive cross-section transfers maximum torques
- > Extremely low wear attributable to reduced forces in the lever mechanism
- > Forged lever chain from our own quality forge
- > Maximum precision even when subjected to extreme continuous use
- > Long life cycles and tool lives
- > Easy operation - fast and safe torque tightening
- > Easy adjustment thanks to attractive adjusting button secured against loss at the end of the handle
- > With certificate acc. to DIN EN ISO 6789, traceable via in-house DAKKS laboratory to national standards



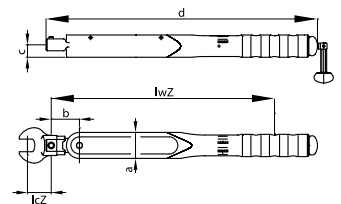
AZ





DXZ



CZ



Type	Ø	N·m	lbf·in	lbf·ft		lwZ	lcZ	a	b	c	d		Code	No.
AZ	16	8-40	70-350	—	5 N·m / 50 lbf·in	300.0	32	35	38	16.5	366	1.000	7703610	8460-01
BZ	16	25-120	—	18-90	5 N·m / 5 lbf·ft	411.5	32	35	38	16.5	489	1.450	7704260	8461-01
CZ	16	80-400	—	60-300	5 N·m / 5 lbf·ft	567.0	32	35	38	16.5	645	2.000	7704340	8462-01
DZ	22	140-620	—	100-450	10 N·m / 10 lbf·ft	767.5	56	45	49	17.5	846	3.000	7703020	8463-10
DXZ	28	520-1000	—	380-730	10 N·m / 10 lbf·ft	1,221.0	75	45	57	17.5	1319	5.500	1251341	8471-01

## DREMOMETER SE



### TECHNICAL INFORMATION QUICK-FITTING CHANGE

› Quick-change system with pin locking guarantees flexible and swift working methods. Ideal for installations in confined and poorly accessible spaces. Depending on the application for the DREMOMETER SE, access is possible from the front and side.



On request, all torque wrenches can be factory pre-set **-at extra charge-**. When ordering, please specify the N-m value.



## 8480 SE - 8482 SE TORQUE WRENCH DREMOMETER SE WITH QUICK-FITTING CHANGE

8-400 N·m / 70 lbf·in - 300 lbf·ft

- › Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate. Working accuracy: +/- 3% tolerance of scale set torque. The specification of the standard (+/- 4%) is exceeded.
- › Lightweight yet robust (as the housing is made of an aluminium alloy) and resilient, very workshop-friendly
- › Drive offers extensive range of accessories
- › Depending on the application, access is possible from the front (e.g. rectangular open-end fitting) or side (e.g. reversible ratchet and socket)
- › Force to be applied in the middle of the handgrip only - do not use an extension tube as otherwise, inaccuracies can arise
- › Operation only with end fittings otherwise inaccuracies can arise. Keep the depth gauges on the certificate in mind. Only use original GEDORE accessories.
- › Extremely low wear attributable to reduced forces in the lever mechanism

- › Forged lever chain from our own quality forge
- › Maximum precision even when subjected to extreme continuous use
- › Long life cycles and tool lives
- › Easy operation - fast and safe torque tightening
- › Easy adjustment thanks to attractive adjusting button secured against loss at the end of the handle
- › With certificate acc. to DIN EN ISO 6789, traceable via in-house DAKKS laboratory to national standards



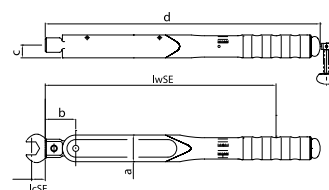
A-SE



B-SE



C-SE



Type	mm	N-m	lbf·in	lbf·ft	mm	lwSE	lcSE	a	b	c	d	mm	Code	No.
A-SE	9 x 12	8-40	70-350	-	5 N-m / 50 lbf·in	302.0	17.5	35	40	16.5	361	0.950	7714060	8480-01
B-SE	9 x 12	25-120	-	18-90	5 N-m / 5 lbf·ft	413.5	17.5	35	40	16.5	484	1.250	7714140	8481-01
C-SE	14 x 18	80-400	-	60-300	5 N-m / 5 lbf·ft	582.0	25.0	35	53	16.5	653	1.700	7714220	8482-01

# DREMOMETER A+S

## 7554 AM A+S - 7572 F A+S TORQUE WRENCH DREMOMETER A+S

with pre-set value locking and safety device (A+S)

### Technical advantage/function:

- > **Pre-set value locking and safety device (A+S) eliminates the possibility of unintentional or manipulated adjustment**, thereby representing more process reliability of the user
- > Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate. Working accuracy: +/- 3 % tolerance of scale set torque. The specification of the standard (+/- 4 %) is exceeded.
- > Lightweight and robust (as housing is made of an aluminium alloy), very workshop-friendly
- > No inaccuracies whether used with both hands or held away from the handle (as for standard torque wrenches). Both the square drive and fulcrum are on an axis which ensures a high degree of user safety; can be extended to reduce the user's working load.
- > Extremely low wear attributable to reduced forces in a unique lever mechanism
- > Forged lever chain from our own quality forge
- > Maximum precision even when subjected to extreme continuous use
- > Long life cycles and tool lives
- > Easy operation - fast and safe torque tightening
- > Single- and double-square drive for controlled bi-directional tightening

### Use:

- > Controlled screw tightening in the range 6 - 3000 N-m
- > For use in almost all industrial manufacturing areas

### Features:

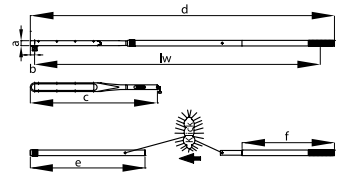
- > With certificate acc. to DIN EN ISO 6789, traceable via in-house DAKS laboratory to national standards
- > Automatic short-path actuation with tactile impulse and audible signal
- > Dual scale with corresponding scale graduation (see table)
- > Type B, BC, C with push-button release
- > **Pre-set DREMOMETER for serial production wherever the same value always needs to be applied**
- > **The pre-setting can be made at the factory or by the user on suitable torque testers**
- > **If ordering, please specify the N-m value - if a fixed factory pre-setting is desired (price on request)**



A



B



Type	█"	█	N-m	lbf-in	lbf-ft		lw	a	b	c	d	e	f		Code	No.
AM A+S	1/4	6.3	6-30	50-270	—	1 N-m / 10 lbf-in	206.0	30	15.0	256.0	—	—	—	0.580	1210891	7554-01
AML A+S	1/4	6.3	6-30	50-270	—	1 N-m / 10 lbf-in	206.0	30	15.0	256.0	—	—	—	0.580	1210904	7559-01
A A+S	3/8	10.0	8-40	70-350	—	5 N-m / 50 lbf-in	262.0	30	17.5	326.5	—	—	—	1.000	7708920	7560-01
AL A+S	3/8	10.0	8-40	70-350	—	5 N-m / 50 lbf-in	262.0	30	17.5	326.5	—	—	—	1.000	1210939	7565-01
B A+S	1/2	12.5	25-120	—	18-90	5 N-m / 5 lbf-ft	373.0	30	17.5	450.0	—	—	—	1.500	7709060	7561-01
BL A+S	1/2	12.5	25-120	—	18-90	5 N-m / 5 lbf-ft	373.0	30	17.5	450.0	—	—	—	1.500	1210947	7566-01
BC A+S	1/2	12.5	40-200	—	30-150	5 N-m / 5 lbf-ft	463.0	30	17.5	539.0	—	—	—	1.400	1211013	7573-00
BCL A+S	1/2	12.5	40-200	—	30-150	5 N-m / 5 lbf-ft	463.0	30	17.5	539.0	—	—	—	1.300	1427113	7578-00
CA A+S	1/2	12.5	60-300	—	45-220	5 N-m / 5 lbf-ft	529.0	30	17.5	605.0	—	—	—	2.000	7709650	7562-10
CLA A+S	1/2	12.5	60-300	—	45-220	5 N-m / 5 lbf-ft	529.0	30	17.5	605.0	—	—	—	2.000	1210955	7567-10
CD A+S	3/4	20.0	80-360	—	60-260	5 N-m / 5 lbf-ft	624.0	30	22.5	705.5	—	—	—	2.400	1210998	7570-10
CDL A+S	3/4	20.0	80-360	—	60-260	5 N-m / 5 lbf-ft	624.0	30	22.5	705.5	—	—	—	2.400	1211021	7575-10
DSA A+S	3/4	20.0	110-550	—	80-400	10 N-m / 10 lbf-ft	719.0	35	22.5	800.0	—	—	—	2.900	1427164	7574-10
DSL A+S	3/4	20.0	110-550	—	80-400	10 N-m / 10 lbf-ft	719.0	35	22.5	800.0	—	—	—	2.900	1427148	7579-10
DA A+S	3/4	20.0	155-760	—	115-560	10 N-m / 10 lbf-ft	719.0	35	22.5	800.0	—	—	—	3.200	1210921	7563-10
DL A+S	3/4	20.0	155-760	—	115-560	10 N-m / 10 lbf-ft	719.0	35	22.5	800.0	—	—	—	3.200	1210971	7568-10
DRA A+S	3/4	20.0	155-760	—	115-560	10 N-m / 10 lbf-ft	1,290.5	35	22.5	800.0	1403	762	—	5.000	1210912	7563-01
DRL A+S	3/4	20.0	155-760	—	115-560	10 N-m / 10 lbf-ft	1,290.5	35	22.5	800.0	1403	762	—	5.000	1210963	7568-01
DX A+S	3/4	20.0	520-1000	—	380-730	10 N-m / 10 lbf-ft	1,290.5	35	22.5	800.0	1403	762	—	5.600	1211005	7571-01
DXL A+S	3/4	20.0	520-1000	—	380-730	10 N-m / 10 lbf-ft	1,290.5	35	22.5	800.0	1403	762	—	5.600	1211048	7576-01
EKA A+S	1	25.0	600-1500	—	—	25 N-m	1,473.0	40	30.0	920.0	1608	925	—	10.800	2311321	7581-01
EKL A+S	1	25.0	600-1500	—	—	25 N-m	1,473.0	40	30.0	920.0	1608	925	—	10.800	2311348	7586-01
EA A+S	1	25.0	750-2000	—	—	50 N-m	2,213.0	40	30.0	920.0	2353	925	745	11.600	1547232	7564-01
ELA A+S	1	25.0	750-2000	—	—	50 N-m	2,213.0	40	30.0	920.0	2353	925	745	11.600	1547240	7569-01
FA A+S	1.1/2	40.0	1500-3000	—	—	50 N-m	2,309.0	40	35.0	1,025.0	2454	925	745	13.200	1547259	7572-01

# 7460 Z - 7471 Z

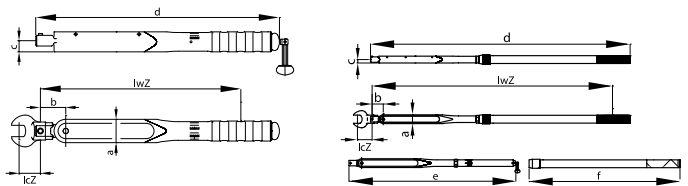
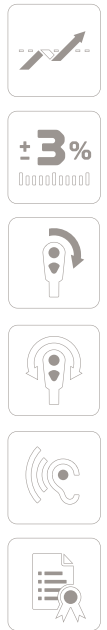
## TORQUE WRENCH DREMOMETER Z A+S

with pre-set value locking and safety device (A+S)

**Technical advantage/function:**

- > **Pre-set value locking and safety device (A+S) eliminates the possibility of unintentional or manipulated adjustment**, thereby representing more process reliability of the user
- > Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate. Working accuracy: +/- 3 % tolerance of scale set torque. The specification of the standard (+/- 4 %) is exceeded.
- > Lightweight yet robust (as the housing is made of an aluminium alloy) and resilient, very workshop-friendly
- > Depending on the application, access is possible from the front (e.g. open-end fitting) or side (e.g. reversible ratchet and socket)
- > Force to be applied in the middle of the handgrip only - do not use an extension tube as otherwise, inaccuracies can evolve (except for model DXZ where the DREMOMETER has been calibrated and adjusted using the extension tube)
- > Operation only with end fittings with standardised depth gauges, otherwise inaccuracies can arise. Keep the depth gauges on the certificate in mind. Only use original GEDORE accessories.
- > Large drive cross-section transfers maximum torques
- > Extremely low wear attributable to reduced forces in the lever mechanism

- > Forged lever chain from our own quality forge
- > Maximum precision even when subjected to extreme continuous use
- > Long life cycles and tool lives
- > Easy operation - fast and safe torque tightening
- > Easy adjustment thanks to attractive adjusting button secured against loss at the end of the handle
- > With certificate acc. to DIN EN ISO 6789, traceable via in-house DAKS laboratory to national standards
- > **Pre-set DREMOMETER for serial production wherever the same value always needs to be applied**
- > **The pre-setting can be made at the factory or by the user on suitable torque testers**
- > **If ordering, please specify the N-m value - if a fixed factory pre-setting is desired (price on request)**



Type	∅	N-m	lbf-in	lbf-ft		lwZ	lcZ	a	b	c	d		Code	No.
AZ A+S	16	8-40	70-350	–	5 N-m / 50 lbf-in	300.0	32	35	38	16.5	354.0	1.000	1427067	7460-01
BZ A+S	16	25-120	–	18-90	5 N-m / 5 lbf-ft	411.5	32	35	38	16.5	477.5	1.450	1427075	7461-01
CZ A+S	16	80-400	–	60-300	5 N-m / 5 lbf-ft	567.0	32	35	38	16.5	633.0	2.000	1225669	7462-01
DZ A+S	22	140-620	–	105-450	10 N-m / 10 lbf-ft	767.5	56	45	49	17.5	834.5	3.000	1427083	7463-10
DXZ A+S	28	520-1000	–	380-730	10 N-m / 10 lbf-ft	1,221.0	75	45	57	17.5	1,319.0	5.500	1521977	7471-01

8791 - 8798

>317 - 321

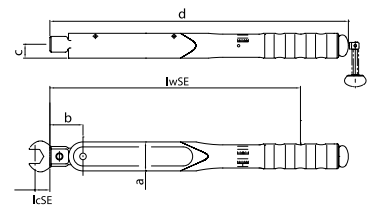


# 7480 SE - 7482 SE TORQUE WRENCH DREMOMETER SE A+S

with pre-set value locking and safety device (A+S)

**Technical advantage/function:**

- > **Pre-set value locking and safety device (A+S) eliminates the possibility of unintentional or manipulated adjustment**, thereby representing more process reliability of the user
- > Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate. Working accuracy: +/- 3% tolerance of scale set torque. The specification of the standard (+/- 4%) is exceeded.
- > Lightweight yet robust (as the housing is made of an aluminium alloy) and resilient, very workshop-friendly
- > Drive offers extensive range of accessories
- > Depending on the application, access is possible from the front (e.g. rectangular open-end fitting) or side (e.g. reversible ratchet and socket)
- > Force to be applied in the middle of the handgrip only - do not use an extension tube as otherwise, inaccuracies can arise
- > Operation only with end fittings otherwise inaccuracies can arise. Keep the depth gauges on the certificate in mind. Only use original GEDORE accessories.
- > Extremely low wear attributable to reduced forces in the lever mechanism
- > Forged lever chain from our own quality forge
- > Maximum precision even when subjected to extreme continuous use
- > Long life cycles and tool lives
- > Easy operation - fast and safe torque tightening
- > Easy adjustment thanks to attractive adjusting button secured against loss at the end of the handle
- > With certificate acc. to DIN EN ISO 6789, traceable via in-house DAKkS laboratory to national standards
- > **Pre-set DREMOMETER for serial production wherever the same value always needs to be applied**
- > **The pre-setting can be made at the factory or by the user on suitable torque testers**
- > **If ordering, please specify the N-m value - if a fixed factory pre-setting is desired (price on request)**



Type	□mm	N-m	lbf-in	lbf-ft	📏	lwSE	lcSE	a	b	c	d	↕	Code	No.
<b>A-SE A+S</b>	9 x 12	8-40	70-350	–	5 N-m / 50 lbf-in	302.0	17.5	35	40	16.5	350	0.950	1427059	7480-01
<b>B-SE A+S</b>	9 x 12	25-120	–	18-90	5 N-m / 5 lbf-ft	413.5	17.5	35	40	16.5	474	1.250	1427091	7481-01
<b>C-SE A+S</b>	14 x 18	80-400	–	60-300	5 N-m / 5 lbf-ft	582.0	25.0	35	53	16.5	642	1.700	1427105	7482-01

7112 - 7918

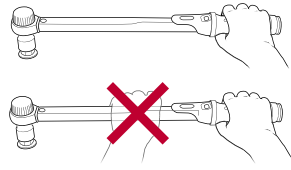
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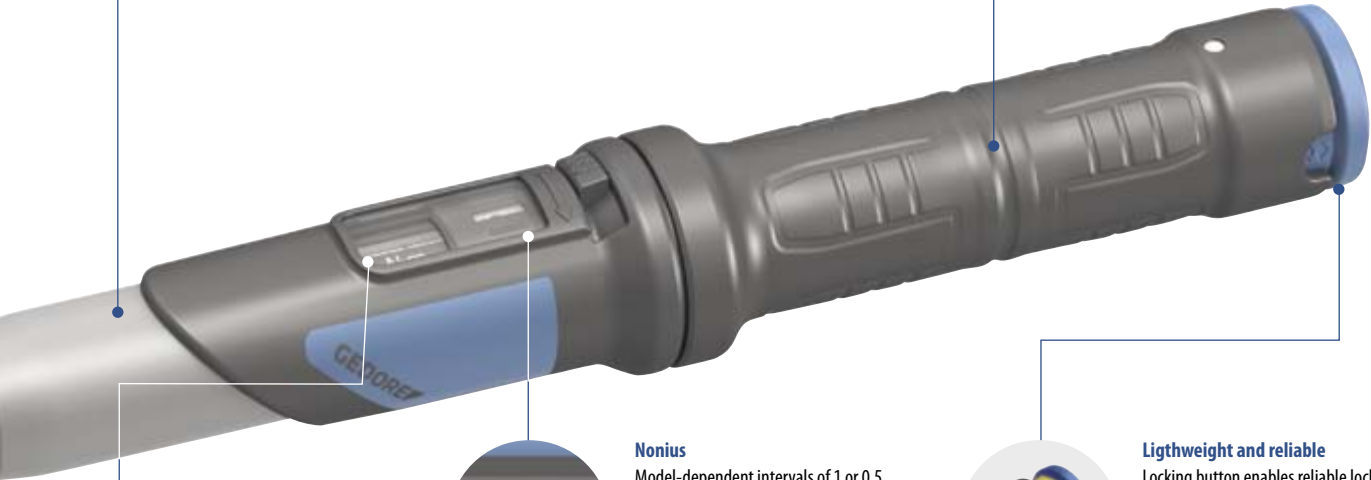




**+** **Additional protection of the serial number**  
Concealed setting drill hole = secured adjusting/setting system Serial number on the wrench and on the certificate for unambiguous product identification, traceable via in-house DAKKS laboratory to national standards



**+** **Handgrip with user aid**  
Grey plastic handgrip, new ergonomically enhanced shape, with an indentation in the middle of the handgrip. User aid and reference points for calibration.



**Nonius**  
Model-dependent intervals of 1 or 0.5 N-m allow very accurate settings.



**Lighthouse and reliable**  
Locking button enables reliable locking of the torque setting. "Torque adjustable" reference by means of opened lock symbol. Provision for rapid setting from the separate hexagon allen key fixture.

**+** **Dual scale with main and alternative unit (N-m/lbf-ft).**  
Main unit N-m with vernier. At all times only one unit in the viewing area = avoids any reading errors. Change-over switch next to the scale for straightforward unit selection.



## DREMASTER® DMUK

Torque wrench with square drive and integrated ratchet-function for controlled clockwise tightening



**+** **Robust tubular steel**  
With high corrosion protection, satin powder-coated, with zinc-plated ratchet head

**+** With 1/2" square drive and integrated lever-change reversible ratchet function for controlled clockwise tightening

Switch the lever of the reversible ratchet to correspond with the desired direction, clockwise or anti-clockwise.



DMK 1/2 - 3/4 20-850 N-m



DMUK 1/2 20-300 N-m



DMZ 16 22 20-850 N-m



DMSE 9x12 14x18 20-400 N-m

# DMK TORQUE WRENCH DREMASTER® K

20-850 N·m

**Use:**

- > Controlled screw tightening in the most common range of 20 - 850 N·m / 15 - 630 lbf·ft (guide for screws M7-10.9 to M24-8.8, M30-5.6)
- > Adjustable, releasing and sturdy tubular torque wrench with integrated ratchet and with square drive for industry and the trades

**Features:**

- > Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate allowing for operations to be traced back. Calibrated to a permitted +/- 3 % deviation and better. The specifications of the standard (+/- 4 %) are exceeded.
- > For controlled bi-directional tightening. DMUK only for controlled clockwise-tightening
- > Models DMK: 1/2" mushroom head interchangeable square with push-button releasing and a ball-locking mechanism. From Model No. DMK 400 with 3/4" push-through square and a pin-locking mechanism

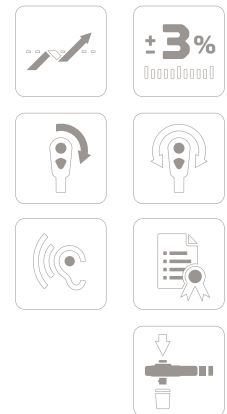
- > Sturdy, varnished tubular steel construction, with zinc-plated ratchet head and top-grade plastic parts
- > Ergonomically shaped plastic grip with calibration aid
- > Change-over between N·m main scale and lbf·ft ancillary scale to avoid reading errors when setting the torque wanted
- > With micrometre scale for main N·m scale for setting interim values
- > Release system triggers a tactile and audible signal
- > Ergonomic system for torque adjustment with reference symbol
- > Provision for rapid setting with hexagon allen key, not included
- > Secured adjusting/setting system



"	■	N·m	lbf·ft	Scale	Scale ring	L	lw	c	h	b	Weight	Code	No.
1/2	12.5	20-100	15-75	5 N·m	0,5 N·m	423.5	329.2	35	38.5	44	1.250	2641232	DMK 100
1/2	12.5	40-200	30-150	10 N·m	1 N·m	514.5	420.2	35	38.5	44	1.400	2641240	DMK 200
1/2	12.5	60-300	45-220	10 N·m	1 N·m	606.4	511.1	35	38.5	46	1.431	2641259	DMK 300
3/4	20.0	80-400	60-300	10 N·m	1 N·m	714.8	608.9	46	38.0	67	2.488	2641267	DMK 400
3/4	20.0	110-550	80-405	10 N·m	1 N·m	953.2	846.4	52	38.0	69	3.940	2641275	DMK 550
3/4	20.0	150-750	110-550	10 N·m	1 N·m	1,228.2	1,121.4	327	38.0	69	5.020	2641283	DMK 750
3/4	20.0	250-850	185-630	10 N·m	1 N·m	1,375.2	1,268.4	474	38.0	69	5.325	2641291	DMK 850

# GDMK TORQUE WRENCH SET DREMASTER® K

- > The DREMASTER® DMK as a practical tool set
- > Most-widely-used tools in a robust sheet-metal case
- > Clearly organised - everything always easily accessible
- > With foam-material inlay modules (on request, these can be customised or extended individually)



"	■	N·m	lbf·ft	Contents	Weight	Code	No.
1/2	12.5	20-100	15-75	No. DMK 100 in sheet-metal case 10 13 17 19 24 125 mm and 1/2" square drive	4.4	2641593	GDMK 100
1/2	12.5	40-200	30-150	No. DMK 200 in sheet-metal case 10 13 17 19 24 125 mm and 1/2" square drive	5.7	2641607	GDMK 200
1/2	12.5	60-300	45-220	No. DMK 300 in sheet-metal case 17 19 24 27 125 mm and 1/2" square drive	5.8	2641615	GDMK 300
3/4	20.0	80-400	60-300	No. DMK 400 in sheet-metal case 18 19 24 27 200 mm and 3/4" square drive	6.5	2641623	GDMK 400

# DMUK TORQUE WRENCH DREMASTER® UK

20-300 N·m / 15-220 lbf·ft

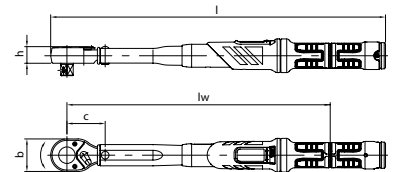
**Use:**

- > Controlled screw tightening in the most common range of 20 - 300 N·m / 15 - 220 lbf·ft (guide for screws M7-10.9 to M24-8.8, M30-5.6)
- > Adjustable, releasing and sturdy tubular torque wrench with integrated ratchet and with square drive for industry and the trades

**Features:**

- > Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate. Working accuracy: +/- 3 % tolerance of scale set torque. The specification of the standard (+/- 4 %) is exceeded.
- > For controlled clockwise tightening
- > Models DMUK: With 1/2" reversible ratchet
- > Sturdy, varnished tubular steel construction, with zinc-plated ratchet head and top-grade plastic parts
- > Ergonomically shaped plastic grip with calibration aid

- > Change-over between N·m main scale and lbf·ft ancillary scale to avoid reading errors when setting the torque wanted
- > With micrometre scale for main N·m scale for setting interim values
- > Release system triggers a tactile and audible signal
- > Ergonomic system for torque adjustment with reference symbol
- > Provision for rapid setting with hexagon allen key, not included
- > Secured adjusting/setting system

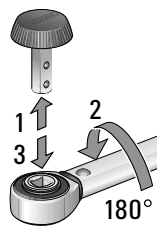


"	■	N·m	lbf·ft	Scale ring	L	lw	c	h	b	kg	Code	No.	
1/2	12.5	20-100	15-75	5 N·m	0,5 N·m	437.7	344.2	50	22.0	42.5	1.232	2641305	DMUK 100
1/2	12.5	40-200	30-150	10 N·m	1 N·m	529.7	435.2	50	22.0	42.5	1.400	2641313	DMUK 200
1/2	12.5	60-300	45-220	10 N·m	1 N·m	619.6	526.1	50	22.0	42.5	1.623	2641348	DMUK 300

## FUNCTION

**In order to change the turning direction of the TORCOFIX K:**

- > Press on the protruding square drive with your thumb and take out the mushroom head, turn the wrench and re-insert the square drive.



## DMKPK MUSHROOM HEAD DREMASTER® DMK

- > With 1/2" output square drive with ball locking device and release button
- > Made of chrome-vanadium steel, zinc-plated
- > With blue mushroom head made of polypropylene



## 3294 COUPLER 3/4"

- > Acc. to DIN 3122, ISO 3315
- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with locking pin
- > Chrome-vanadium steel, chrome-plated



"	■	↳ mm ↳	kg	Code	No.	"	□	kg	Code	No.
3/4	20	51.5	0.133	6279090	3294	1/2	12.5	0.064	2551829	DMKPK 7

# DMZ TORQUE WRENCH DREMASTER® Z

20-850 N·m / 15-630 lbf·ft

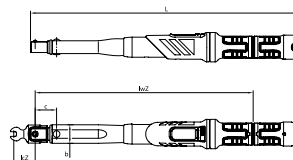
**Use:**

- > Controlled screw tightening in the most common range of 20 - 850 N·m / 15 - 630 lbf·ft (guide for screws M7-10.9 to M24-8.8, M30-5.6)
- > Adjustable, releasing and sturdy tubular torque wrench with spigot end for industry and the trades

**Features:**

- > Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate allowing for operations to be traced back. Calibrated to a permitted +/- 3 % deviation and better. The specifications of the standard (+/- 4 %) are exceeded.
- > For controlled bi-directional tightening
- > Sturdy, varnished tubular steel construction, with phosphated spigot end (Ø 16 mm or Ø 22 mm) and high-grade plastic parts
- > Ergonomically shaped plastic grip with calibration aid
- > Change-over between N·m main scale and lbf·ft ancillary scale to avoid reading errors when setting the torque wanted.

- > With micrometre scale for main N·m scale for setting interim values
- > Release system triggers a tactile and audible signal
- > Ergonomic system for torque adjustment with reference symbol
- > Provision for rapid setting with hexagon allen key, not included
- > Secured adjusting/setting system
- > Factory depth gauge: 32 mm (Ø 16 mm) or 56 mm (Ø 22 mm)
- > Operation only with end fittings with standardised depth gauge - otherwise inaccuracies may arise.
- > Depending on the application, access is possible from the front (e.g. open-end fitting) or side (e.g. reversible ratchet and socket)



Ø	N·m	lbf·ft		Scale ring	L	lwZ	lcZ	b	c		Code	No.
16	20-100	15-75	5 N·m	0,5 N·m	405.5	326.2	32	27.5	32	0.998	2641518	DMZ 100
16	40-200	30-150	10 N·m	1 N·m	496.5	417.2	32	27.5	32	1.100	2641526	DMZ 200
16	60-300	45-220	10 N·m	1 N·m	587.4	508.1	32	27.5	32	1.300	2641534	DMZ 300
16	80-400	60-300	10 N·m	1 N·m	677.2	597.9	32	35.0	32	1.790	2641542	DMZ 400
22	110-550	80-405	10 N·m	1 N·m	912.7	831.4	56	36.5	37	3.280	2641550	DMZ 550
22	150-750	110-550	10 N·m	1 N·m	1,193.7	1,121.7	56	38.5	318	4.380	2641569	DMZ 750
22	250-850	185-630	10 N·m	1 N·m	1,340.7	1,259.4	56	38.5	465	5.000	2641577	DMZ 850

# GDMZ TORQUE WRENCH SET DREMASTER® Z

- > The DREMASTER® DMZ as a practical tool set
- > Most-widely-used tools in a robust sheet-metal case
- > Clearly organised - everything always easily accessible
- > With foam-material inlay modules (on request, these can be customised or extended individually)



Ø	N·m	lbf·ft	Contents		Code	No.
16	20-100	15-75	No. DMZ 100 in sheet-metal case 17 19 24  17 19 24 and 1/2" ratchet head	4.5	2641704	GDMZ 100
16	40-200	30-150	No. DMZ 200 in sheet-metal case 17 19 24  17 19 24 and 1/2" ratchet head	5.8	2641712	GDMZ 200
16	60-300	45-220	No. DMZ 300 in sheet-metal case 24 27 30 32  24 27 and 1/2" ratchet head	6.5	2641720	GDMZ 300
16	80-400	60-300	No. DMZ 400 in sheet-metal case 24 27 30 32  24 27 and 1/2" ratchet head	7.4	2641739	GDMZ 400

# DMSE TORQUE WRENCH DREMASTER® SE

20-400 N·m / 15-300 lbf·ft

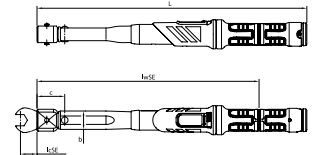
**Use:**

- > Controlled screw tightening in the most common range of 20 - 400 N-m / 15 - 300 lbf-ft (guide for screws M7-10.9 to M20-6.9)
- > Adjustable, releasing and sturdy tubular torque wrench with rectangular cavity for industry and the trades

**Features:**

- > Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate allowing for operations to be traced back. Calibrated to a permitted +/- 3 % deviation and better. The specifications of the standard (+/- 4 %) are exceeded.
- > For controlled bi-directional tightening
- > Sturdy, varnished tubular steel construction, with zinc-plated rectangular cavity (9x12 mm or 14x18mm) and high-grade plastic parts
- > Ergonomically shaped plastic grip with calibration aid
- > Change-over between N-m main scale and lbf-ft ancillary scale to avoid reading errors when setting the torque wanted.

- > With micrometre scale for main N-m scale for setting interim values
- > Release system triggers a tactile and audible signal
- > Ergonomic system for torque adjustment with reference symbol
- > Provision for rapid setting with hexagon allen key, not included
- > Secured adjusting/setting system
- > Factory depth gauge: 17.5 mm (9x12 mm) or 25 mm (14x18 mm)
- > Operation only with end fittings with standardised depth gauges, otherwise inaccuracies can arise
- > Depending on the application, access is possible from the front (e.g. open-end fitting) or side (e.g. reversible ratchet and socket)



mm	N-m	lbf-ft	Scale ring	Scale ring	L	lWSE	lCSE	b	c	kg	Code	No.
9 x 12	20-100	15-75	5 N-m	0,5 N-m	398.5	326.2	17.5	27.5	32	1.000	2641445	DMSE 100
9 x 12	30-150	22-110	10 N-m	1 N-m	489.5	417.2	17.5	27.5	32	1.160	2641453	DMSE 150
14 x 18	40-200	30-150	10 N-m	1 N-m	499.5	427.2	25.0	27.5	42	1.250	2641461	DMSE 200
14 x 18	60-300	45-220	10 N-m	1 N-m	590.4	518.1	25.0	27.5	42	1.400	2641488	DMSE 300
14 x 18	80-400	60-300	10 N-m	1 N-m	677.2	604.9	25.0	33.0	42	2.000	2641496	DMSE 400

# GDMSE TORQUE WRENCH SET DREMASTER® SE

- > The DREMASTER® DMSE as a practical tool set
- > Most-widely-used tools in a robust sheet-metal case
- > Clearly organised - everything always easily accessible
- > With foam-material inlay modules (on request, these can be customised or extended individually)




mm	N-m	lbf-ft	Contents	kg	Code	No.
9 x 12	20-100	15-75	No. DMSE 100 in sheet-metal case 13 17 19 and 1/2" ratchet head	3.9	2641658	GDMSE 100
9 x 12	30-150	22-110	No. DMSE 150 in sheet-metal case 13 17 19 and 1/2" ratchet head	5.6	2643731	GDMSE 150
14 x 18	40-200	30-150	No. DMSE 200 in sheet-metal case 17 19 24 and 1/2" ratchet head	6.3	2641666	GDMSE 200
14 x 18	60-300	45-220	No. DMSE 300 in sheet-metal case 24 30 32 and 1/2" ratchet head	6.5	2641674	GDMSE 300
14 x 18	80-400	60-300	No. DMSE 400 in sheet-metal case 24 30 32 and 1/2" ratchet head	7.0	2641690	GDMSE 400

# TORCOFIX K

Robust torque wrench with square drive and integrated ratchet-head function for controlled bi-directional tightening.

**± 3%**



Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate allowing for operations to be traced back. Calibrated to a permitted +/- 3 % deviation and better. The specifications of the standard (+/- 4 %) are exceeded.

Serial number on the wrench and on the certificate for unambiguous product identification, traceable via in-house DAKkS laboratory to national standards

**Scale**


Easily readable dual scale (N·m / lbf·in / lbf·ft) well protected under a window with a magnifying-glass effect. The torque setting is readable on the scale or, more particularly, on the scale in combination with the scale ring.

**Micrometre scale**

Optimised shape, stable scale frame with red-shaded micrometre scale ring. Model-dependent intervals of 0.025, 0.1, 0.25, 0.5 or 1 N·m allow very accurate settings.



**Chrom-plated ratchet head**

All 1/4" - 1/2" square drives of the TORCOFIX K-series with mushroom head. This mushroom head prevents an unintentional pulling out of the whole square drive when changing the nut socket.



**Automatic actuation**

The TORCOFIX actuates with a clear tactile impulse and audible signal and is immediately ready for operation again.

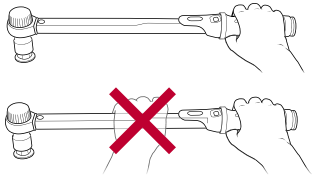



**Lighweight and reliable**

Locking button enables reliable locking of the torque setting.

**Handgrip with a user aid**

Black plastic handgrip, new ergonomically enhanced shape, with an indentation in the middle of the handgrip. User aid and reference points for calibration.



**Robust steel tube**

With high corrosion protection, chrome-plated, silk-metal.



K 1/4" - 3/4" 1 - 850 N·m



Z 16 22 2 - 850 N·m



SE 9x12 14x18 2 - 400 N·m

# 4549 - 4550 - 4551 TORQUE WRENCH TORCOFIX K

1-850 N·m / 0.75-630 lbf·ft

**Use:**

- > Controlled screw tightening in the most widely used range of 1 - 850 N·m / 0.75 - 630 lbf·ft (guide for screws M3-6.9 to M24-8.8, M30-5.6)
- > Adjustable, releasing and sturdy tubular torque wrench with integrated ratchet and with square drive for industry and the trades

**Features:**

- > Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate. Working accuracy: +/- 3 % tolerance of scale set torque. The specification of the standard (+/- 4 %) is exceeded.
- > For controlled bi-directional tightening

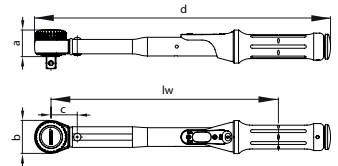
- > 1/4", 3/8", 1/2" interchangeable mushroom head with ball locking device. As from 3/4" with push through square drive with pin-locking mechanism
- > Sturdy, varnished tubular steel construction, with zinc-plated ratchet head and top-grade plastic parts
- > Ergonomically shaped, convenient black plastic handgrip with calibration aid
- > Dual scale N·m and lbf·ft below a window with a magnifying-glass effect
- > With micrometre scale for main N·m scale for setting interim values
- > Release system triggers a tactile and audible signal
- > Ergonomic system for torque adjustment



4549-02



4550-30

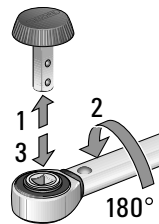


"	■	N·m	lbf·ft	Scale ring	Scale ring	lw	a	b	c	d	kg	Code	No.
1/4	6.3	1-5	0,75-3,7	0,25 N·m	0,025 N·m	146.0	25.3	35	26	224.0	0.323	2201429	4549-00
1/4	6.3	5-25	3,7-18	1 N·m	0,1 N·m	206.5	25.3	35	26	284.5	0.450	1545132	4549-02
3/8	10.0	10-50	7,5-37	2,5 N·m	0,25 N·m	256.5	25.3	35	26	334.5	0.540	1545140	4549-05
1/2	12.5	20-100	15-75	5 N·m	0,5 N·m	303.2	35.9	44	35	394.7	0.900	7601530	4550-10
1/2	12.5	40-200	30-150	10 N·m	1 N·m	394.2	35.9	44	35	485.5	1.100	7601610	4550-20
1/2	12.5	60-300	45-220	10 N·m	1 N·m	485.2	35.9	46	35	577.5	1.300	7601880	4550-30
3/4	20.0	80-400	60-300	10 N·m	1 N·m	583.2	38.0	67	46	686.0	1.860	7674330	4550-40
3/4	20.0	110-550	80-405	10 N·m	1 N·m	853.7	38.0	69	52	957.5	3.560	7674760	4550-55
3/4	20.0	150-750	110-550	10 N·m	1 N·m	1,128.7	38.0	69	327	1,232.5	4.500	1521365	4550-75
3/4	20.0	250-850	185-630	10 N·m	1 N·m	1,275.7	38.0	69	1276	1,379.5	4.700	1950525	4551-85

## FUNCTION

**In order to change the turning direction of the TORCOFIX K:**

- > Press on the protruding square drive with your thumb and take out the mushroom head, turn the wrench and re-insert the square drive.



## 4549 - 4550 MUSHROOM HEAD TORCOFIX K

- > With 1/4", 3/8" or 1/2" output square drive with ball locking device
- > Made of chrome-vanadium steel, zinc-plated
- > With blue mushroom head made of polypropylene



4550-865



4550-855

## 3294 COUPLER 3/4"

- > Acc. to DIN 3122, ISO 3315
- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with locking pin
- > Chrome-vanadium steel, chrome-plated



"	■	mm	kg	Code	No.
3/4	20	51.5	0.133	6279090	3294

"	□	"	■	mm	kg	Code	No.
3/8" - 1/4"	10.0	1/4	6.3	35	0.021	1545167	4549-875
3/8" - 1/4"	10.0	3/8	10.0	35	0.022	1566385	4549-885
1/2" - 3/8"	12.5	1/2	12.5	44	0.060	7079370	4550-855
1/2" - 3/8"	12.0	3/8	10.0	44	0.060	7079450	4550-865

TORCOFIX Z

TECHNICAL INFORMATION Z



- > The large cross-section of the spigot end transfers a maximum torque. "Quick-change system" with a locking pin mechanism guarantees that work takes place flexibly and rapidly.
- > Ideal for bolted connections in cramped and hard-to-access locations. Depending on how the torque wrench Z is used, it is possible to work both in the forward direction and also to the side. For anti-clockwise tightening, simply turn the torque wrench through 180°



4400 - 4485  
TORQUE WRENCH TORCOFIX Z

5-850 N·m / 3,7-630 lbf·ft

Use:

- > Controlled screw tightening in the most widely used range of 5 - 850 N·m / 3.7 - 550 lbf·ft
- > Adjustable, releasing and sturdy tubular torque wrench with spigot end for industry and the trades

Features:

- > Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate. Working accuracy: +/- 3 % tolerance of scale set torque. The specification of the standard (+/- 4 %) is exceeded.
- > For controlled bi-directional tightening
- > Sturdy, varnished tubular steel construction, with phosphated spigot end (Ø 16 mm or Ø 22 mm) and high-grade plastic parts
- > Ergonomically shaped, convenient black plastic handgrip with calibration aid
- > Dual scale N·m and lbf·ft below a window with a magnifying-glass effect
- > With micrometre scale for main N·m scale for setting interim values
- > Release system triggers a tactile and audible signal

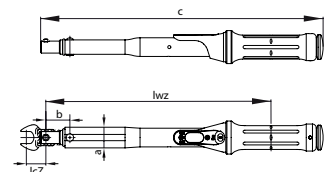
- > Ergonomic system for torque adjustment
- > Factory depth gauges: 32 mm (Ø 16 mm) or 56 mm (Ø 22 mm)
- > Operation only with end fittings with standardised depth gauges, otherwise inaccuracies can arise
- > Depending on the application, access is possible from the front (e.g. open-end fitting) or side (e.g. reversible ratchet and socket)



4400-02



4430-01



Ø	N·m	lbf·ft	Scale ring	Scale ring	lwZ	lcZ	a	b	c	Weight	Code	No.
16	5-25	3,7-18	1 N·m	0,1 N·m	210.5	32	20.0	30	278.0	0.330	1646168	4400-02
16	10-50	7,5-37	2,5 N·m	0,25 N·m	260.5	32	20.0	30	328.0	0.390	1646176	4405-05
16	20-100	15-75	5 N·m	0,5 N·m	300.2	32	27.5	32	376.5	0.700	7097270	4410-01
16	40-200	30-150	10 N·m	1 N·m	391.2	32	27.5	32	467.5	0.860	7097350	4420-01
16	60-300	45-220	10 N·m	1 N·m	482.2	32	27.5	32	558.5	1.080	7097430	4430-01
16	80-400	60-300	10 N·m	1 N·m	572.2	32	35.0	33	648.5	1.390	7094090	4440-01
22	110-550	80-405	10 N·m	1 N·m	838.7	56	36.5	37	917.0	3.000	7501310	4450-01
22	150-750	110-550	10 N·m	1 N·m	1,119.7	56	38.5	318	1,198.0	4.060	1521381	4475-01
22	250-850	185-630	10 N·m	1 N·m	1,266.7	56	38.0	465	1,345.0	4.430	1997009	4485-01



# TORCOFIX SE

## TECHNICAL INFORMATION - QUICK-FITTING CHANGE (SE)

Quick-change system with pin locking guarantees flexible and swift working methods. Ideal for installations in confined and poorly accessible spaces. Depending on the application for the **TORCOFIX SE**, access is possible from the front and side.



### 4100 - 4301 TORQUE WRENCH TORCOFIX SE

2-400 N·m / 1.5-300 lbf·ft

**Use:**

- > Controlled screw tightening in the most widely used range of 5 - 400 N-m / 3.7 - 300 lbf-ft
- > Adjustable, releasing and sturdy tubular torque wrench with rectangular cavity for industry and the trades

**Features:**

- > Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate. Working accuracy: +/- 3 % tolerance of scale set torque. The specification of the standard (+/- 4 %) is exceeded.
- > For controlled bi-directional tightening
- > Sturdy, varnished tubular steel construction, with zinc-plated rectangular cavity (9x12 mm or 14x18 mm) and high-grade plastic parts
- > Ergonomically shaped, convenient black plastic handgrip with calibration aid
- > Dual scale N-m and lbf-ft below a window with a magnifying-glass effect
- > With micrometre scale for main N-m scale for setting interim values

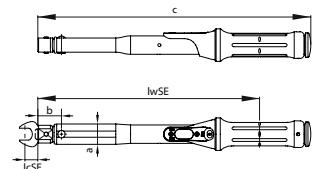
- > Release system triggers a tactile and audible signal
- > Ergonomic system for torque adjustment
- > Factory depth gauges: 17.5 mm (9x12 mm) or 25 mm (14x18 mm)
- > Operation only with end fittings with standardised depth gauges, otherwise inaccuracies can arise
- > Depending on the application, access is possible from the front (e.g. open-end fitting) or side (e.g. reversible ratchet and socket).



4100-01



4300-01



mm	N-m	lbf-ft	مقياس	Scale ring	lwSE	lcSE	a	b	c	±%	Code	No.
9 x 12	5-25	3,7-18	1 N-m	0,1 N-m	212.5	17.5	20.0	32	273.0	0.352	1646192	4101-02
9 x 12	10-50	7,5-37	2,5 N-m	0,25 N-m	262.5	17.5	20.0	32	323.0	0.450	1646206	4101-05
9 x 12	20-100	15-75	5 N-m	0,5 N-m	300.2	17.5	27.5	32	369.5	0.600	7600210	4100-01
9 x 12	30-150	22-110	10 N-m	1 N-m	391.2	17.5	27.5	32	460.5	0.800	1654934	4200-02
14 x 18	40-200	30-150	10 N-m	1 N-m	401.2	25.0	27.5	42	470.5	0.900	7600990	4201-01
14 x 18	60-300	45-220	10 N-m	1 N-m	492.2	25.0	27.5	42	561.5	1.200	7601020	4300-01
14 x 18	80-400	60-300	10 N-m	1 N-m	579.2	25.0	33.0	42	648.5	1.600	7604120	4301-01

## TORCOFIX FS

## 4150 - 4151

## TORQUE WRENCH FOR PRE-SETTING TORCOFIX FS

5-200 N·m

**Use:**

- > Controlled screw tightening in the most widely used range of 5 - 200 N·m without scale
- > Pre-set, releasing and sturdy tubular torque wrench with rectangular cavity for industry and the trades

**Features:**

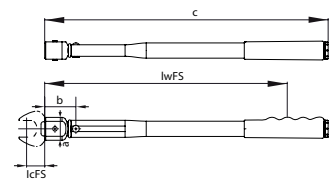
- > Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate.  
Working accuracy: +/- 3 % tolerance of scale set torque.  
The specification of the standard (+/- 4 %) is exceeded.
- > For controlled bi-directional tightening
- > Sturdy, varnished tubular steel construction, with zinc-plated rectangular cavity (9x12 mm or 14x18 mm)
- > Release system triggers a tactile and audible signal
- > Factory depth gauge: 17.5 mm (9x12 mm) or 25 mm (14x18 mm)
- > Operation only with end fittings with standardised depth gauges, otherwise inaccuracies can arise
- > Depending on the application, access is possible from the front (e.g. open-end fitting) or side (e.g. reversible ratchet and socket).
- > **If ordering, please specify the N·m value - if a fixed factory pre-setting is desired (price on request)**



4150-25



4151-20



□mm	N·m <sub>min/max</sub>	lwFS	lcFS	a	b	c	kg	Code	No.
9 x 12	5 - 25	134	17.5	22	31	186	0.210	7601960	4150-25
9 x 12	10 - 50	194	17.5	22	31	246	0.270	7602180	4150-50
9 x 12	17 - 85	277	17.5	22	31	329	0.340	7602850	4150-85
14 x 18	40 - 200	357	25.0	33	45	410	0.750	7603580	4151-20

## Torque Screwdrivers

# TORQUE SCREWDRIVER TECHNICAL FEATURES

A range of compact and versatile torque screwdrivers with automatically actuating, dial-indicating and measuring torque.



### TYPE PGN

- > Pre-set torque screwdriver without scale for durable and identical value tightening
- > Auto setting
- > With 1/4" female hexagon drive for use with 1/4" hexagon bits as per DIN 3126 - C 6.3



### TYPE FS 755

- > Pre-set torque screwdriver without scale for durable and identical value tightening
- > Auto setting
- > Bidirectional
- > Anodised aluminium handgrip



### TYPE 756

- > Adjustable torque screwdriver with scale ring
- > "Positive-lock"-system
- > Drive type made of stainless steel
- > Auto setting
- > Bidirectional
- > Non-slip rubber handgrip
- > EPA > see product



### TYPE S 757

- > Adjustable torque screwdriver with scale ring
- > Auto setting
- > Bidirectional
- > Anodised aluminium handgrip



### TYPE SP 758

- > Dial-indicating torque screwdriver with dual scale
- > Locking of maximum values / maximum value-display
- > Bidirectional
- > Anodised aluminium handgrip
- > EPA > see product



### SCOPE OF DELIVERY

- > We supply a 1/4"-1/4"-drive adaptor with all models
- > To make work easier, a sliding or removable T-bar is included with several models

### SPECIAL MODELS

- > Optionally, all torque screwdrivers are also available with a 1/4" male square drive spindle.
- > Apart from that: Torque screwdrivers for the medical "clean-room" area are available on request.

NEW

## PGNP FS

## TORQUE SCREWDRIVER TYPE PGNP FS

0.05 - 13.5 N·m / pre-set

- Use:**
- > Controlled screw tightening in the range 0.05 - 13.5 N·m
  - > Serial manufacture with constant tightening value
  - > Electronic industry, precision mechanics and industrial manufacturing

**Features:**

- > **Pre-set torque screwdriver without a scale**
- > With 1/4" female hexagon drive for use with 1/4" hexagon bits as per DIN 3126 - C 6.3
- > Classified to DIN EN ISO 6789:2003 Type II Class F, with a factory certificate allowing for operations to be traced back
- > Calibrated to a permitted +/- 6 % deviation of the set torque
- > Precision radial ball clutch and cam design for controlled bi-directional tightening
- > Precision mechanism slips very noticeably through when set torque is reached
- > Automatic resetting to the starting position
- > **Fatigue-free working due to an ergonomic hand grip and a smooth tool reset action**

- > **Calibration stickers can be easily applied to the purpose designed nose**
- > The pre-setting can be made at the factory or by the user on suitable torque testers
- > **If ordering, please specify the N·m value - if a fixed factory setting is desired (price on request)**

**Scope of delivery:**

- > Torque screwdriver type PGNP FS
- > Models 4.5 and 13.5 with additional sliding T-bar for ease of use
- > Test certificate acc. to DIN EN ISO 6789
- > Delivered in sturdy cardboard packaging



Hex "	Hex	cN·m	N·m	l-mm	kg	Code	No.
1/4	6.3	5-25	0,05-0,25	132	0.210	2927756	PGNP 0.25 FS
1/4	6.3	20-150	0,2-1,5	132	0.210	2927764	PGNP 1.5 FS
1/4	6.3	50-450	0,5-4,5	140	0.230	2927772	PGNP 4.5 FS
1/4	6.3	250-1350	2,5-13,5	140	0.230	2927780	PGNP 13.5 FS

## PGNS FS

## TORQUE SCREWDRIVER TYPE PGNS FS

0.2 - 4.5 N·m / pre-set

- Use:**
- > Controlled screw tightening in the range 0.2 - 4.5 N·m
  - > Serial manufacture with constant tightening value
  - > Precision mechanics and industrial manufacturing
  - > Basic model

**Features:**

- > **Pre-set torque screwdriver without a scale**
- > With 1/4" female hexagon drive for use with 1/4" hexagon bits as per DIN 3126 - C 6.3
- > Working accuracy: +/- 10 % tolerance of the set torque, **without calibration certificate**
- > Acc. to DIN EN ISO 6789, traceable to national standards

- > Precision mechanism slips very noticeably through when set torque is reached
- > For controlled directional tightening, anti-clockwise operation for loosening
- > The pre-setting can be made at the factory or by the user on suitable torque testers
- > **If ordering, please specify the N·m value - if a fixed factory setting is desired (price on request)**

**Scope of delivery:**

- > Torque screwdriver type PGNS FS
- > Delivered in sturdy cardboard packaging



Hex "	Hex	cN·m	N·m	l-mm	kg	Code	No.
1/4	6.3	20-150	0,2-1,5	138	0.198	2927721	PGNS 1.5 FS
1/4	6.3	50-450	0,5-4,5	138	0.198	2927748	PGNS 4.5 FS

**NEW**

# PGNE FS

## TORQUE SCREWDRIVER TYPE PGNE FS

0.05 - 13.5 N·m / pre-set

**Use:**

- > Controlled screw tightening in the range 0.05 - 13.5 N·m
- > Serial manufacture with constant tightening value
- > Electronic industry, precision mechanics and industrial manufacturing

**Features:**

- > **Pre-set torque screwdriver without a scale**
- > With 1/4" female hexagon drive for use with 1/4" hexagon bits as per DIN 3126 - C 6.3
- > Classified to DIN EN ISO 6789:2003 Type II Class F, with a factory certificate allowing for operations to be traced back
- > Calibrated to a permitted +/- 6% deviation of the set torque
- > **EPA-conformant (Electrostatic Protected Area), for use in sensitive electrostatic applications**
- > Precision radial ball clutch and cam design for controlled bi-directional tightening
- > Precision mechanism slips very noticeably through when set torque is reached

- > Automatic resetting to the starting position
- > **Fatigue-free working due to an ergonomic hand grip and a smooth tool reset action**
- > **Calibration stickers can be easily applied to the purpose designed nose**
- > The pre-setting can be made at the factory or by the user on suitable torque testers
- > **If ordering, please specify the N-m value - if a fixed factory setting is desired (price on request)**

**Scope of delivery:**

- > Torque screwdriver type PGNE FS
- > Models 4.5 and 13.5 with additional sliding T-bar for ease of use
- > Test certificate acc. to DIN EN ISO 6789
- > Delivered in sturdy cardboard packaging



1/4"	⊘	cN·m	N·m	↳ mm ‹	⚖	Code	No.
1/4	6.3	5-25	0,05-0,25	132	0.210	2927799	PGNE 0.25 FS
1/4	6.3	20-150	0,2-1,5	132	0.210	2927802	PGNE 1.5 FS
1/4	6.3	50-450	0,5-4,5	140	0.230	2927810	PGNE 4.5 FS
1/4	6.3	250-1350	2,5-13,5	140	0.230	2927829	PGNE 13.5 FS

# 755

## TORQUE SCREWDRIVER TYPE FS

0.04-13.6 N·m / pre-set

**Use:**

- > Controlled screw tightening in the range 0.04 - 13.6 N·m
- > Serial manufacture with constant tightening value
- > Electronic industry, precision mechanics and industrial manufacturing

**Features:**

- > Pre-set torque screwdriver without a scale
- > With 1/4" female hexagon drive for use with 1/4" hexagon bits as per DIN 3126 - C 6.3
- > With adaptor also suitable for 1/4" square drive sockets as per DIN 3124
- > Working accuracy: +/- 6% tolerance of the set torque
- > Acc. to DIN EN ISO 6789, traceable to national standards
- > Precision radial ball clutch and cam design for controlled bi-directional tightening
- > Precision mechanism slips very noticeably through when the set torque is reached
- > Automatic resetting to the starting position

- > Lightweight construction by virtue of anodised aluminium handgrips
- > The pre-setting can be made at the factory or by the user on suitable torque testers
- > **If ordering, please specify the N-m value - if a fixed factory setting is desired (price on request)**

**Scope of delivery:**

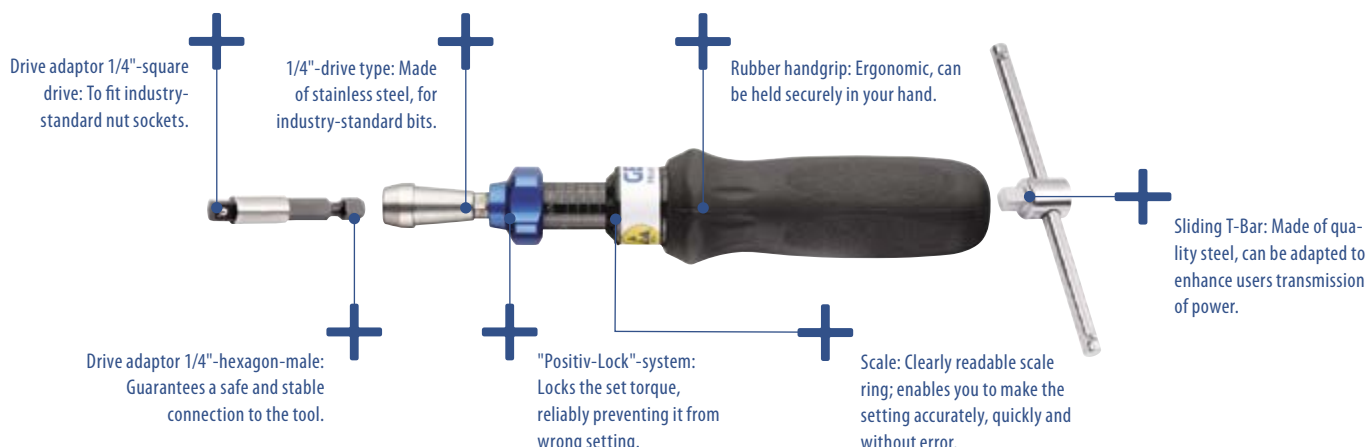
- > Torque screwdriver type 755
- > 1/4" square/hexagon drive adaptor (no. 757-20)
- > Model 755-05 with additional removable T-bar for ease of use
- > Test certificate acc. to DIN EN ISO 6789
- > Delivered in sturdy cardboard packaging



755-05

1/4"	⊘	■"	■	cN·m	N·m	↳ mm ‹	⚖	Code	No.
1/4	6.3	1/4	6.3	4,4-22	0,04-0,22	76	0.050	1471481	755-01
1/4	6.3	1/4	6.3	4,4-22	0,04-0,22	104	0.072	1471473	755-02
1/4	6.3	1/4	6.3	27-135	0,27-1,35	111	0.210	1471465	755-03
1/4	6.3	1/4	6.3	80-400	0,8-4,0	127	0.280	1471457	755-04
1/4	6.3	1/4	6.3		2,8-13,6	137	0.325	1228501	755-05

# TORQUE SCREWDRIVERS 756



## 756 TORQUE SCREWDRIVER TYPE S

0.08-9 N·m

**Use:**

- > Controlled screw tightening in the range 0.08 - 9 N·m
- > High-speed, controlled tightening enables serial production
- > Electrical and electronic hardware industry, instrument-making industry and industrial manufacturing or in quality control

**Features:**

- > Adjustable torque screwdriver - with scale
- > With 1/4" female hexagon drive for use with 1/4" hexagon bits as per DIN 3126 - C 6.3
- > With adapter also suitable for 1/4" square drive sockets as per DIN 3124
- > Actuation accuracy: +/- 6% tolerance of the set value
- > Acc. to DIN EN ISO 6789, traceable to national standards
- > Precision radial ball clutch and cam design for controlled bi-directional tightening
- > Precision mechanism slips very noticeably through when the set torque is reached
- > Automatic resetting to the starting position
- > "Positive-Lock" system automatically fixes the set value preventing it from wrong setting.
- > 4 models in the range 0.05 N·m to 9 N·m

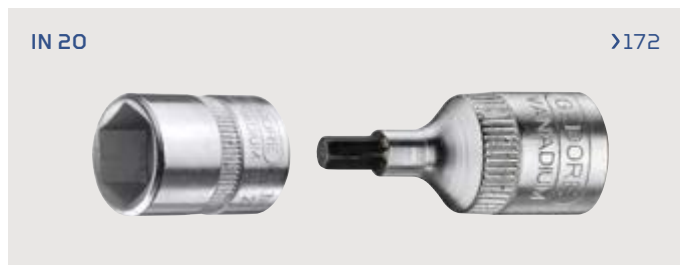
- > Micrometre scaling: 1 cN·m and 0.1 N·m
- > Very convenient, lightweight and non-slip rubber handgrip
- > EPA-conformant (Electrostatic Protected Area), for use in sensitive electrostatic applications

**Scope of delivery:**

- > Torque wrench type 756
- > 1/4" square/hexagon drive adapter (no. 757-20)
- > Models 756-06/-09 with additional sliding T-bar for ease of use
- > Test certificate acc. to DIN EN ISO 6789
- > Delivered in sturdy cardboard packaging



○"	○	■"	■	cN·m	N·m	l<mm>l	▬▬▬▬	⚖kg	Code	No.
1/4	6.3	1/4	6.3	8-40	0,08-0,4	159	1 cN·m	0.124	1498738	756-00
1/4	6.3	1/4	6.3	24-120	0,24-1,2	183	1 cN·m	0.165	1400150	756-01
1/4	6.3	1/4	6.3	120-600	1,2-6	196	0,1 N·m	0.340	1400169	756-06
1/4	6.3	1/4	6.3	400-900	4-9	196	0,1 Nm	0.340	1400177	756-09



# 757 TORQUE SCREWDRIVER TYPE S

0.24-9 N·m

**Use:**

- > Controlled screw tightening in the range 24 cN·m - 9 N·m
- > High-speed, controlled tightening enables serial production
- > Electrical and electronic hardware industry, instrument-making industry and industrial manufacturing or in quality control

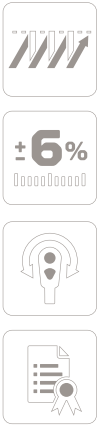
**Features:**

- > Adjustable torque screwdriver with scale
- > With 1/4" female hexagon drive for use with 1/4" hexagon bits as per DIN 3126 - C 6.3
- > With adaptor also suitable for 1/4" square drive sockets as per DIN 3124
- > Working accuracy: +/- 6 % tolerance of the set torque
- > Acc. to DIN EN ISO 6789, traceable to national standards
- > Precision radial ball clutch and cam design for controlled bi-directional tightening
- > Precision mechanism slips very noticeably through when set torque is reached
- > Automatic resetting to the starting position

- > Locking of the value by means of an adjusting knob
- > 3 models in the range 24 cN·m to 9 N·m
- > Micrometre scale graduation: 1 cN·m / 0.1 N·m
- > Lightweight construction by virtue of anodised aluminium handgrips

**Scope of delivery:**

- > Torque screwdriver type 757
- > 1/4" square/hexagon drive adaptor (no. 757-20)
- > Models 757-06/-09 with additional sliding T-bar for ease of use
- > Test certificate acc. to DIN EN ISO 6789
- > Delivered in sturdy cardboard packaging



757-09

Hexagon Drive	Hexagon Size	Hexagon Size	Hexagon Size	cN·m	N·m	Length	Scale	Weight	Code	No.
1/4"	6.3	1/4"	6.3	24-120	0,24-1,2	169	1,0 cN·m	0.165	7718050	757-01
1/4"	6.3	1/4"	6.3	120-600	1,2-6	184	0,1 N·m	0.400	7718130	757-06
1/4"	6.3	1/4"	6.3	400-900	4-9	184	0,1 N·m	0.400	7718210	757-09

# 758 TORQUE SCREWDRIVER TYPE SP

10-500 cN·m / 14 ozf·in - 40 lbf·in

**Use:**

- > In the torque range 0.1 - 5.0 N·m
- > For test and installation work in the electrical and electronic hardware industry, instrument-making industry and industrial manufacturing or in quality control

**Features:**

- > Dial-indicating torque and test screwdriver - with dual scale (cN·m/ozf·in/lbf·in)
- > With 1/4" female hexagon drive for use with 1/4" hexagon bits as per DIN 3126 - C 6.3
- > With adapter also suitable for 1/4" square drive sockets as per DIN 3124
- > Display accuracy: +/- 6 % tolerance of the indicated value
- > Acc. to DIN EN ISO 6789, traceable to national standards
- > For controlled bi-directional tightening
- > With slave-pointer function

- > For locking of maximum values / maximum-value display
- > 4 models in the range 0.1 N·m to 5.0 N·m
- > Lightweight construction by virtue of anodised aluminium handgrips
- > EPA-conformant (Electrostatic Protected Area), for use in sensitive electrostatic applications

**Scope of delivery:**

- > Torque screwdriver type 758
- > 1/4" square/hexagon drive adapter (no. 757-20)
- > Models 758-25/-50 with additional sliding T-bar for ease of use
- > Test certificate acc. to DIN EN ISO 6789
- > Delivered in sturdy cardboard packaging



Hexagon Drive	Hexagon Size	Hexagon Size	Hexagon Size	cN·m	N·m	ozf·in / lbf·in	Length	Scale	Weight	Code	No.
1/4"	6.3	1/4"	6.3	10-50	0,1-0,5	14-70 ozf·in	178	2 cN·m / 2 ozf·in	0.190	7096380	758-05
1/4"	6.3	1/4"	6.3	20-100	0,2-1	28-140 ozf·in	178	5 cN·m / 5 ozf·in	0.190	7096460	758-10
1/4"	6.3	1/4"	6.3	50-250	0,5-2,5	4-20 lbf·in	250	10 cN·m / 0,5 lbf·in	0.465	7096540	758-25
1/4"	6.3	1/4"	6.3	100-500	1,0-5,0	8-40 lbf·in	250	20 cN·m / 1 lbf·in	0.465	7096620	758-50

# TSN SLIPPER

Pre-set ratchet head torque wrench with automatic actuation and slip function. Over-tightening is not possible.



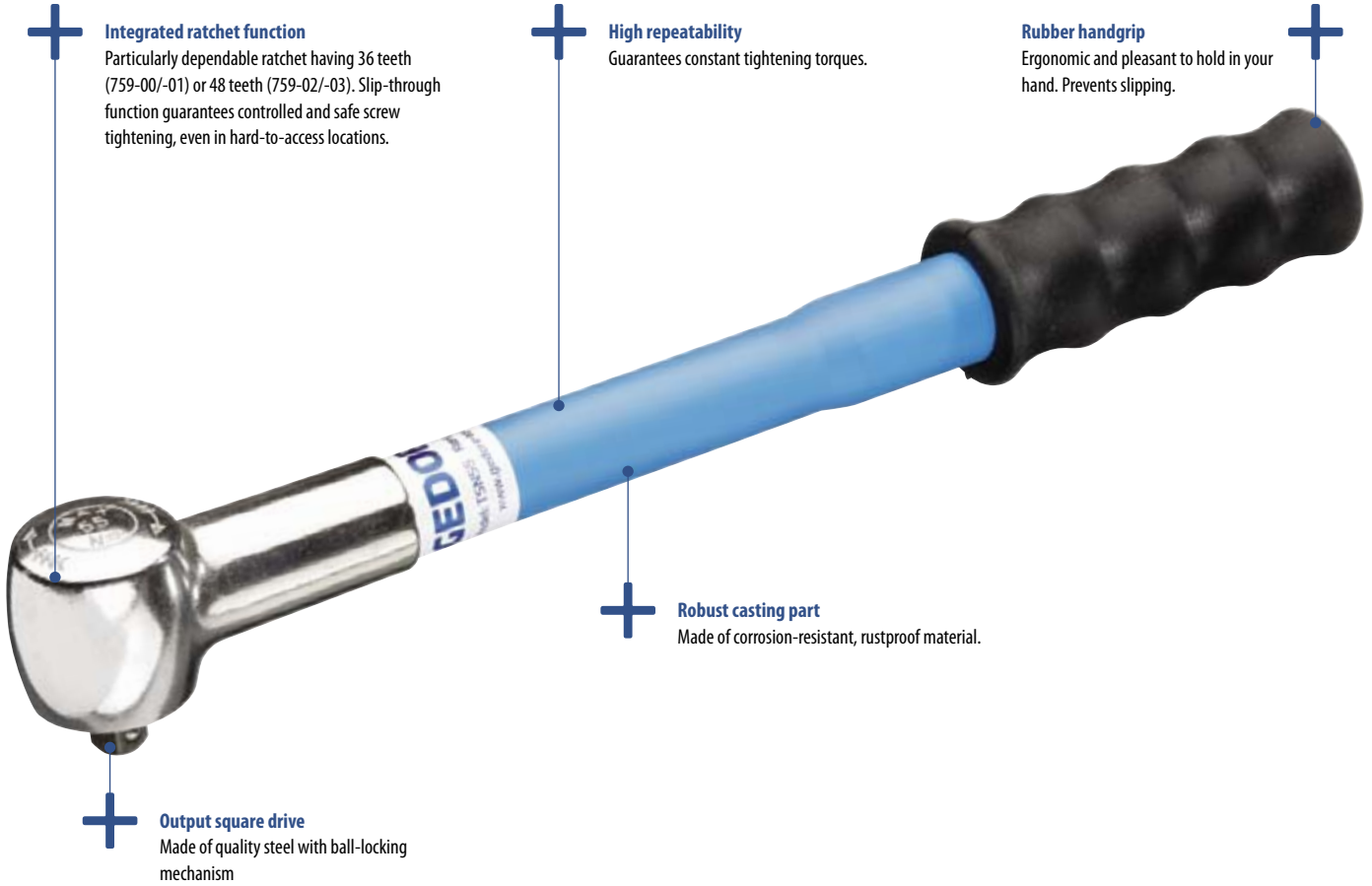
**Integrated ratchet function**  
Particularly dependable ratchet having 36 teeth (759-00/-01) or 48 teeth (759-02/-03). Slip-through function guarantees controlled and safe screw tightening, even in hard-to-access locations.

**High repeatability**  
Guarantees constant tightening torques.

**Rubber handgrip**  
Ergonomic and pleasant to hold in your hand. Prevents slipping.

**Robust casting part**  
Made of corrosion-resistant, rustproof material.

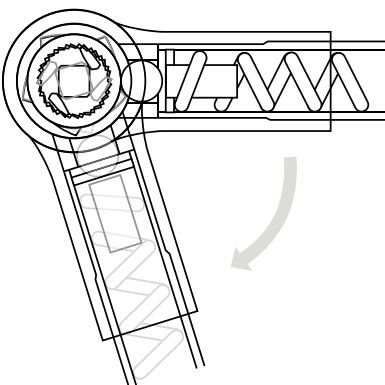
**Output square drive**  
Made of quality steel with ball-locking mechanism



## Working principle

### TSN SLIPPER

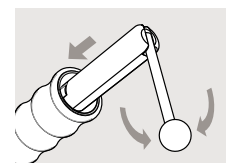
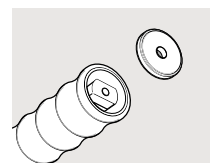
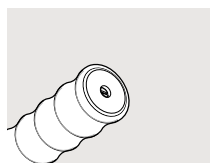
When the pre-set torque value is achieved, the mechanism slips through over the ball (without the possibility of over-tightening). The torque wrench is then immediately ready for the next operation.



## Technical information

### TSN SLIPPER & TBN BREAKER

All TSN SLIPPER and TBN BREAKER torque wrenches (apart from 760-00/-01) are fitted with the patented "Mechanical Torque Adjustment Locking Device" to modify torque tester.





# 759 TORQUE WRENCH TSN SLIPPER

5-125 N·m / pre-set

## Use:

- > Controlled screw tightening in the range 5 - 125 N·m
- > Serial / production-line assembling
- > Extremely long-term work

## Features:

- > Pre-set production torque wrench - without scale
- > 1/4", 3/8" or 1/2" square drive with ball locking device
- > With integrated ratchet-function for controlled clockwise tightening
- > Working accuracy: +/- 4 % tolerance of the set torque
- > Acc. to DIN EN ISO 6789, traceable to national standards
- > Precision mechanism slips very noticeably and audibly ("click") when the pre-set value is achieved - over-tightening is not possible
- > Automatic resetting to the starting position
- > Lightweight yet robust and corrosion-resistant construction design

- > Very convenient non-slip rubber handgrip
- > The pre-setting can be made at the factory or by the user on suitable torque testers
- > If ordering, please specify the N·m value - if a factory pre-setting is desired (price on request)
- > EPA-conformant (Electrostatic Protected Area), for use in sensitive electrostatic applications

## Scope of delivery:

- > Torque wrench type TSN SLIPPER
- > Special adjusting key for changing the pre-set torque value
- > Test certificate acc. to DIN EN ISO 6789
- > Delivered in sturdy cardboard packaging



- > **TSN SLIPPER** - the pre-set production torque wrench (without scale).
- > With this torque wrench, accidental adjustment while working is ruled out.
- > The state-of-the-art lightweight production wrenches "slip" through as soon as the set torque is achieved.
- > Over-tightening is impossible.
- > The ideal torque tool for all jobs where for a longer time only one tightening torque value is required.
- > The automatic resetting and integrated ratchet are the ideal assistance for working swiftly.

- > TSNs for counter-clockwise tightening, bi-directional tightening without a ratchet-function or as a VDE-Wrench can be manufactured specially - on request.



"	■	N·m	l- mm -l	⚖	Code	No.
1/4	6.3	5-25	216	0.340	7091900	759-00
3/8	10.0	5-25	216	0.340	7092040	759-01
3/8	10.0	15-55	324	0.800	7092120	759-02
1/2	12.5	40-125	460	1.360	7092200	759-03

# 761 TORQUE WRENCH TSP SLIPPER

1-10 N·m / pre-set

**Use:**

- > Controlled screw tightening in the range 1 - 10 N·m
- > Ideal for assembly work where controlled tightening with low torque values is required (e.g. electronic hardware sector, precision mechanics etc.)

**Features:**

- > Pre-set production torque wrench - without scale
- > 1/4" square drive with ball locking device
- > With integrated ratchet-function for controlled clockwise tightening
- > Working accuracy: +/- 6 % tolerance of the set torque
- > Acc. to DIN EN ISO 6789, traceable to national standards
- > Precision mechanism slips very noticeably and audibly ("click") when the pre-set value is reached - over-tightening is not possible
- > Automatic resetting to the starting position
- > 2 models in the range 1 N·m to 10 N·m

- > **TSP SLIPPER** - the pre-set production torque wrench (without scale) for the lower torque range 1 - 10 N·m.
- > Accidental adjustment while working is ruled out.
- > The built-in ratchet with clockwise tightening and the corrosion-resistant lightweight construction design make this torque wrench the optimum working partner for quick and controlled screw tightening.
- > The integrated slipping mechanism reliably prevents over-tightening - the guarantee for high repeatability and controlled tightening values.

- > Extremely lightweight yet robust and corrosion-resistant construction design
- > Very convenient non-slip rubber handgrip
- > EPA-conformant (Electrostatic Protected Area), for use in sensitive electrostatic applications
- > The pre-setting can be made at the factory or by the user on suitable torque testers
- > **If ordering, please specify the N·m value - if a fixed factory pre-setting is desired (price on request)**

**Scope of delivery:**

- > Torque wrench type TSP SLIPPER
- > Adjusting tool for changing the pre-set torque value
- > Test certificate acc. to DIN EN ISO 6789
- > Delivered in sturdy cardboard packaging



"	■	N·m	↳ mm ‹	⚖	Code	No.
1/4	6.3	1-5	185	0.190	1196650	761-05
1/4	6.3	2-10	185	0.190	1196731	761-10

# 762 TORQUE WRENCH TSC SLIPPER

1-10 N·m

**Use:**

- > Controlled screw tightening in the range 1 - 10 N·m
- > Ideal for assembly work where controlled tightening with low torque values is required (e.g. electronic hardware sector, precision mechanics etc.)

**Features:**

- > Adjustable torque wrench - with scale
- > 1/4" square drive with ball locking device
- > With integrated ratchet-head function for controlled clockwise tightening
- > Working accuracy: +/- 6 % tolerance of set torque
- > Acc. to DIN EN ISO 6789, traceable to national standards
- > Precision mechanism slips very noticeably and audibly ("click") when the set torque is reached - over-tightening is not possible

- > The scale is situated on the body tube.
- > The setting is made by rotating the unlocked handgrip with the integrated micrometre ring.
- > **TSC SLIPPER** - the adjustable torque wrenches (with scale) for the lower torque range 1 - 10 N·m.
- > The built-in ratchet with clockwise tightening and the corrosion-resistant lightweight construction design make this torque wrench the optimum working partner for quick and controlled screw tightening.
- > The integrated slipping mechanism reliably prevents over-tightening - the guarantee for high repeatability and controlled tightening values.

- > Automatic resetting to the starting position
- > Micrometre scale graduation: 0.05 N·m / 0.1 N·m
- > 2 models in the range 1 N·m to 10 N·m
- > Extremely lightweight yet robust and corrosion-resistant construction design
- > Very convenient non-slip rubber handgrip
- > EPA-conformant (Electrostatic Protected Area), for use in sensitive electrostatic applications

**Scope of delivery:**

- > Torque wrench type TSC SLIPPER
- > Test certificate acc. to DIN EN ISO 6789
- > Delivered in sturdy cardboard packaging



"	■	N·m	↳ mm ‹	⚖	⚖	Code	No.
1/4	6.3	1-5	195	0,05 N·m	0.235	1196480	762-05
1/4	6.3	2-10	195	0,1 N·m	0.235	1196510	762-10

# TBN BREAKER

Pre-set torque wrench with automatic snap actuation. Torque wrench offering maximum accuracy. Guaranteed tightening values without over-tightening.

**+** **Drive**  
16 mm spigot end or 9x12 mm rectangular cavity made of quality steel with pin-locking mechanism

**+** **Breaking**  
All TBN breaking torque wrenches break by 20° at the pivot point when the set torque is achieved. The models 760-00/-01 can also be set to a breaking angle of 90°.

**+** **Patented mechanism**  
Guarantees a long product lifespan with guaranteed accuracy values

**+** **Rubber handgrip:** Ergonomic and pleasant to hold in your hand. Prevents slipping.

**+** **Lightweight steel tube**  
Firm, solid, and free of corrosion



**TBN Knicker**  
15  
5 - 135 N-m



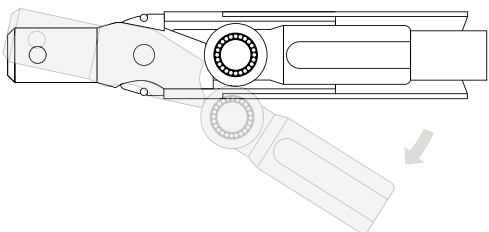
**TBN Knicker**  
9x12  
0,2 - 135 N-m



As an option, we also manufacture the TBN BREAKER models 760-00/-01 with interchangeable fittings directly positioned on the tool.

## Working principle TBN BREAKER

When the TBN breaking torque wrench is operated, the rear section of the driver unit presses the roller. When the pre-set torque value is achieved, the lever switches over and the front section of the drive unit breaks.



## Technical information TBN BREAKER

TBN BREAKER 760-00/-01 values are changed using the "Double Positive" adjustment system.



# 760 BREAKING TORQUE WRENCH TBN

0.4-135 N·m / 1.8-1195 lbf·in / pre-set

**Use:**

- > Controlled screw tightening in the range 0.4 - 135 N·m
- > Serial / production-line assembling
- > Extremely long-term work

**Features:**

- > Pre-set production torque wrench - without scale
- > With 9x12 mm rectangular-cavity-end or 16 mm spigot-end
- > For bi-directional tightening (the wrench only has to be turned by 180°!)
- > Working accuracy: +/- 4 % tolerance of the set torque
- > Acc. to DIN EN ISO 6789, traceable to national standards
- > Breaking of the handgrip by 20° (90° also possible in the case of no. 760-00/-01) when the pre-set torque value is achieved makes over-tightening unlikely
- > Automatic resetting to the starting position
- > Lightweight yet robust and corrosion-resistant construction design
- > Very convenient non-slip rubber handgrip

- > **No. 760-00/-01: EPA (Electrostatic Protected Area) compliant**
- > The pre-setting can be made at the factory or by the user on suitable torque testers
- > **If ordering, please specify the N-m value - if a fixed factory pre-setting is desired (price on request)**
- Scope of delivery:**
  - > TBN breaking torque wrench
  - > Adjusting tool for changing the pre-set torque value
  - > Test certificate acc. to DIN EN ISO 6789
  - > Delivered in sturdy cardboard packaging



760-00



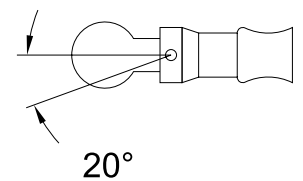
760-35



760-50



- > **TBN** breaking torque wrench - the pre-set production torque wrench (without scale).
- > With this torque wrench, accidental adjustment while working is ruled out.
- > The state-of-the-art lightweight production wrenches "break" as soon as the set torque is achieved.
- > Over-tightening is unlikely.
- > The ideal torque tool for all jobs where for a longer time only one tightening torque value is required.
- > For this reason, it is optimally suited for large series.
- > However, the TBN breaking torque wrench is also ideal when varying tightening values are required.



□mm	∅	N·m	lbf·in	EPA	↳ mm ↲	⚖kg	Code	No.
9 x 12		0,4-2,0	1,8-18	x	105	0.110	7090690	760-00
9 x 12		2-10	17,8-89	x	105	0.130	7090770	760-01
	16	5-25	44-221		265	0.405	1824686	760-30
9 x 12		5-25	44-221		265	0.405	1824694	760-35
	16	13-65	115-575		302	0.745	1824708	760-40
9 x 12		13-65	115-575		302	0.745	1824716	760-45
	16	27-135	239-1195		408	1.027	1824724	760-50
9 x 12		27-135	239-1195		408	0.830	7092630	760-11

## Torque wrench Type 88

# 8800 TORQUE WRENCH TYPE 88

100-1500 N·m / 70-1000 lbf·ft

**Use:**

- > Controlled screw tightening in the range 100 - 1500 N-m
- > Industry and vehicle sector (lorries, industrial vehicles), machine maintenance

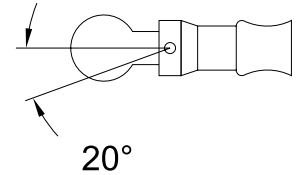
**Features:**

- > Adjustable torque wrench - with scale
- > 3/4" square drive with integrated ratchet-function or 22 mm spigot-end
- > Suitable for bi-directional tightening on account of push-through square drive
- > Working accuracy: +/- 4% tolerance of the value setting
- > Acc. to DIN EN ISO 6789, traceable to national standards
- > Breaking mechanism as an actuation signal which can be seen and felt and makes over-tightening unlikely

- > Dual scale in N-m and lbf·ft
- > 5 models in the range 100 - 1500 N-m

**Scope of delivery:**

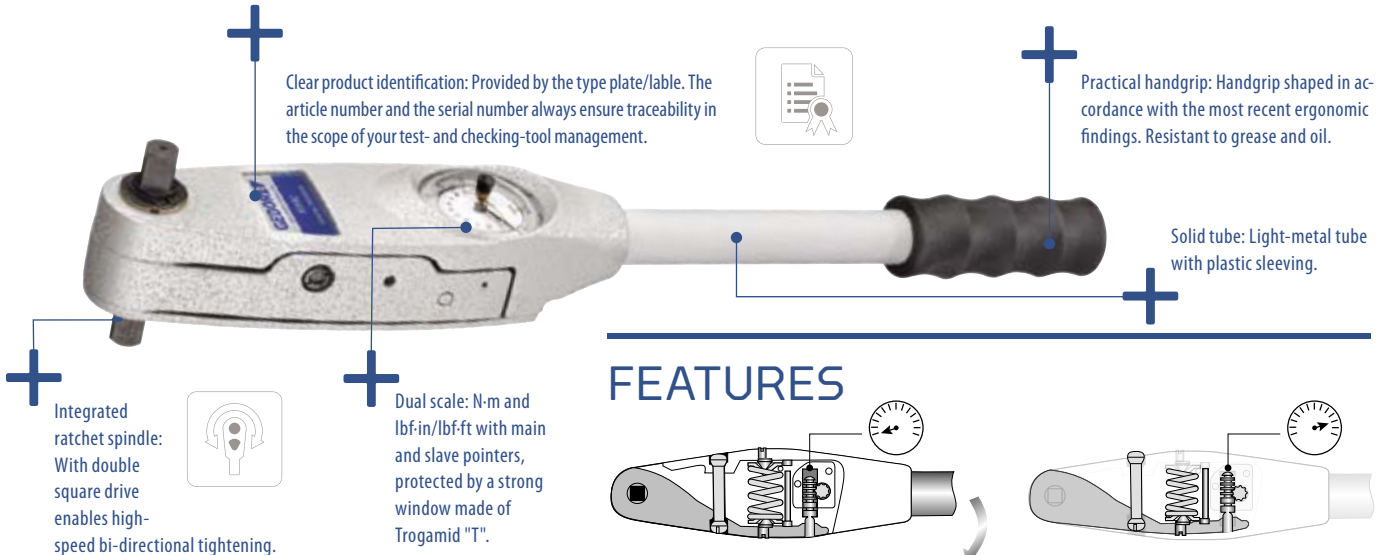
- > Type 88 breaking torque wrench
- > Operating instructions are provided on a label on the torque wrench
- > Test certificate acc. to DIN EN ISO 6789
- > Delivered in sturdy cardboard packaging



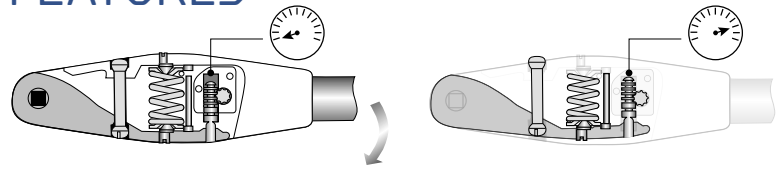
□"	■	∅	N-m	lbf·ft	↳ mm ◁	▬▬▬▬▬▬	⚖ kg	Code	No.
3/4	20		100-500	70-350	915	10 N-m	5.5	7715700	8800-01
3/4	20		150-700	100-500	1090	10 N-m	6.0	7715890	8800-02
3/4	20		300-1000	200-750	1470	20 N-m	7.3	7716000	8800-03
3/4	20		700-1500	500-1000	1470	25 N-m	10.5	7716190	8800-04
		22	130-550	100-400	915	10 N-m	4.8	7716270	8800-06

## Torque wrench Type 83

# TORQUE WRENCHES WITH SLAVE POINTER IDEAL FOR TEST, CONTROL AND MAINTENANCE WORK



## FEATURES



The working principle of the torque wrench with slave pointer type 83

## 8301 - 8305

# TORQUE WRENCH WITH SLAVE POINTER TYPE 83

0.8-2000 N·m / 7 lbf·in - 1500 lbf·ft

±4%  
○○○○○○○○



**Use:**

- > Controlled tightening and verification of tightening values
- > For use in all areas of industrial manufacturing and in quality control
- > Working ranges of 0.8 to 2000 N-m are covered

**Features:**

- > Dial-indicating torque wrench with dual scale and slave pointer
- > 1/4", 3/8", 1/2", 3/4" or 1" double-square drive with ball locking device for controlled bi-directional tightening
- > Models 8301-04 to 8304-80: With integrated ratchet-function
- > For controlled screw tightening and torque measurements
- > Working accuracy: +/- 4 % tolerance of the indicated torque
- > Acc. to DIN EN ISO 6789, traceable to national standards
- > With dual scale in N-m and lbf-in or lbf-ft double-tinted clearly readable face
- > Integrated overload protection - mechanical stop up to max. 25 % overload of the maximum value
- > Housing made of lightweight, robust special aluminium construction - lacquered, silver-grey
- > Black, non-slip rubber handgrips
- > **Models 8301-04 to 8301-40: EPA-conformant (Electrostatic Protected Area), for use in sensitive electrostatic applications**
- > Audio-visual signal is standard on models 8303-40 to 8305-20

**Scope of delivery:**

- > Dial-measuring torque wrench type 83
- > Battery (models 8303-40 to 8305-20)
- > Test certificate acc. to DIN EN ISO 6789
- > Delivered in a sturdy black plastic box (no. 8301-04 to 8302-20), otherwise in sturdy cardboard packaging (no. 8303-40 to 8305-20)



8305-14



8305-20




Type	█"	█	N-m	lbf-in	lbf-ft	EPA	↳ mm ↳	▬▬▬▬▬▬	Height	⚖	Code	No.
☞	1/4	6,3	0,8-4	7-35		x	244	0,1 N-m / 1 lbf-in	61	0,5	7651390	8301-04
☞	1/4	6,3	2,4-12	22-120		x	244	0,5 N-m / 2 lbf-in	61	0,5	7651470	8301-12
☞	3/8	10,0	5-25	44-240		x	244	1 N-m / 10 lbf-in	69	0,5	7651550	8301-25
☞	3/8	10,0	8-40	72-360		x	244	1 N-m / 10 lbf-in	69	0,5	7651630	8301-40
☞	1/2	12,5	16-80		12-60		435	2 N-m / 1 lbf-ft	86	1,4	7651710	8302-08
☞	1/2	12,5	40-200		30-160		515	5 N-m / 5 lbf-ft	86	1,4	7651980	8302-20
☞	3/4	20,0	80-400		60-300		710	10 N-m / 10 lbf-ft	111	3,2	7652280	8303-40
☞	3/4	20,0	160-800		120-600		1000	20 N-m / 20 lbf-ft	123	4,8	7652010	8304-80
☞	1	25,0	280-1400		200-1000		2040	25 N-m / 25 lbf-ft	138	16,7	1196790	8305-14
☞	1	25,0	400-2000		300-1500		2040	50 N-m / 50 lbf-ft	138	16,7	1196804	8305-20

# ELECTRONIC TORQUE WRENCH E-TORC Q

**Powerful. Variable.**  
Holders: Rectangular-cavity SE 9x12 (E-torc Q 100) and SE 14x18 (E-torc Q 200, 300)

**Extensively. Resilient.**  
Large TFT graphics display of a 109 mm (4.3") diagonal with touch function. This makes a gloves operation possible.

**Ergonomic. Safe.**  
The ergonomic handle ensures easy, safe handling - even with large tightening torques.



**Flexible. Positional.**  
Easy-to-handle: Housing-oriented tool holding fixture rotatable through 60° in both directions (120°)

**Intuitive. Visible.**  
Touch function or six hardware keys for intuitive user software operating and, in addition, an extremely robust enter key.

**High-performance lithium-ion rechargeable battery with rapid changing system**



**All the standard measurement methods:**

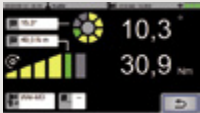



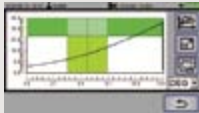


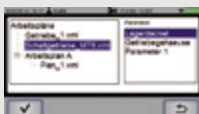



- > Torque
- > Torque/rotary angle
- > Loosening/tightening
- > First movement
- > Yield point
- > High measurement accuracy e.g. torque +/- 1%, +/- 1 digit



Communication to the high-capacity PC user software or attachment to CAQ systems (optional)



Charging unit for two lithium-ion rechargeable batteries (optional)

<p>&gt; Virtual progress bar for torque and angle</p> 	<p>&gt; Clear depiction of the measurement results</p> 	<p>&gt; A variety of users and a user account management can be set up</p> 
<p>&gt; Measured value compilation and assessment</p> 	<p>&gt; Graph representation and evaluation directly possible at E-torc Q</p> 	<p>&gt; Management of fitting and depth gauge parameters</p> 
<p>&gt; Touch screen for clear objective input</p> 	<p>&gt; Operating with workflows</p> 	<p>&gt; Wireless (Wi-Fi 2.4 and 5 GHz) or USB mini interface for communication purposes</p> 
		<p>&gt; Acoustic, visual or vibration-induced signalling</p> 
		<p>&gt; 2D scanner (optional) for reading in barcodes and QR codes</p> 

# Electronic Torque Wrenches

## ET2SA

### ELECTRONIC TORQUE WRENCH E-TORC

2-1000 N·m / 1.5-750 lbf·ft, with rotary angle measurement



**Tightening check for torque/rotary angle:**

- > Optical, acoustic and sensory signalling on reaching the set bolting parameter/with additional visualisation of screw tightening by means of LED progress bar.
- > Software-enabling graphics evaluation.
- > Marked contrast graphics display with backdrop lighting

**Drive:**

- > Spigot end 22/28 mm, 1/4" square drive or 9x12/14x18 mm rectangular cavity with pin-locking mechanism. The installation size determines the drive (model-dependent)
- > ET2SKA 150 and ET2SKA 300 incl. 1/2" rectangular reversible ratchet head
- > For hard-to-access places and given not enough room.
- > Special tools on request.

**Light and pleasant:**

- > The aluminium housing and ergonomic handle ensure easy, safe handling - even with large tightening torques.
- > Tool holding fixture, as from ET2SKA 150 120° rotatable to the aluminium housing

**Function keys:**

- > Easy to use
- > Key pressure taring
- > Side ergonomic operating key
- > Convertible from N-m to lbf-ft via software

**Fields of operation:**

- > Mini-batch assembly
- > Quality assurance
- > Test labs and testing departments
- > Emergency strategies for bolting stations
- > Corrective work places
- > Inspection and analysis of bolted connections

**Version:**

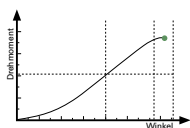
- > Large field of operation: 5 models in the range from 2 to 1000 N-m
- > Tool holding fixture 1/4" square, 9x12, 14x18 rectangular cavity with pin-locking mechanism, 22 and 28 mm spigot end
- > Signalling: visual (LED progress bar), acoustic (beep), sensory (vibration)
- > Tool holding fixture, as of ET2SKA 150 120° rotatable to the aluminium housing
- > Traceable to national standards
- > Torque reading precision +/- 1 %, +/- 1 digit from reading figure
- > Factory certificate as per DIN ISO 6789 Type I Class C
- > Optional certificate as per DAkkS-DKD-R 3-7
- > Rotary angle calibration based on VDI 2648 Sheet 2
- > Backlit graphic display
- > Input of depth gauges for a variety of attachment tools
- > Power supply: Battery or rechargeable battery operation

**Evaluation:**

- > Reading a max. 2,000 data records
- > Serial interface RS232 for PC (USB adapter enclosed)
- > Comprehensive documentation of all screw parameters

**Scope of delivery:**

- > Electronic torque wrench Etorc2S/A
- > Operating instructions with brief guide
- > Test certificate acc. to DIN EN ISO 6789:2003 Type I Class C
- > 2 standard Mignon AA batteries
- > Evaluating software and data transmission cable RS232 and USB
- > ET2SKA 150 and ET2SKA 300 incl. 1/2" rectangular reversible ratchet head
- > Delivered in a robust sheet-metal case with insert



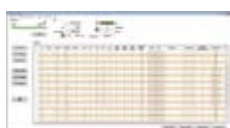
Torque/Angle



Editor



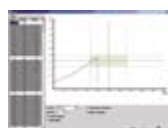
Parameter



Main screen



Settings



Curve diagram



■ "	■	□ mm	∅	N·m	lbf·ft	lw	a	b	c	d	kg	Code	No.
1/4	6.3			2-25	1,5-18	275	35	45		347	0.8	2795493	ET2SKA 25
1/2	12.5	9 x 12		10-150	7-111	457	35	45	17.5	514	1.3	2795612	ET2SKA 150
1/2	12.5	14 x 18		30-300	22-221	696	35	45	25.0	753	1.8	2795620	ET2SKA 300
			22	100-600	74-443	990	35	45	56.0	1055	3.2	2795639	ET2SKA 600
			28	100-1000	74-750	1423	40	45	75.0	1488	5.7	2795655	ET2SKA 1000



# TT3KH

## ELECTRONIC TORQUE WRENCH TORCOTRONIC III

10-350 N·m / 7.4-258.2 lbf·ft

### Use:

- > For everyday requirements in installation and torque control
- > For use in all areas of manufacturing and development

### Features:

- > Microprocessor-controlled, electronic torque wrench
- > For controlled bi-directional tightening
- > Acc. to DIN EN ISO 6789, traceable to national standards
- > Robust workshop design
- > Broad measurement range in N-m, can be switched to lbf·ft
- > With 1/2" reversible ratchet. The ratchet is exchangeable, providing the option of using a 9x12 mm (TT3H 120) or 14x18 mm (TT3H 350) square socket

### Characteristics:

- > Torque and torque angle measure
- > 4 different measuring modes
- > 5 parameters storable
- > USB interface for data exchange
- > 2000 storage places
- > Measurement accuracy torque +/- 1 %, +/- 1 digit
- > Measurement accuracy torque angle +/- 1 %, but min. +/- 1° on 360° with min. 4°/sec
- > Different depth gauges for end fittings programmable
- > Simple to operate with easy to understand icon-menu navigation and 4 functional keys
- > Clearly readable, illuminated LCD display
- > Resolution torque: 0.1 N-m
- > Resolution torque angle: 0.1°
- > PC-software easy to operate for uncomplicated programming and documentation of data
- > Data can be transferred to MS Excel®
- > Keyboard lock
- > Operation with standard Mignon AA or optional with rechargeable-battery (NiMH)
- > Visual signal: 3x LED (yellow, green, red)
- > Acoustic signal: buzzer
- > TÜV certified, CE and RoHS
- > 2 models in the range 10 - 350 N-m
- > Test certificate acc. to DIN EN ISO 6789:2003 Type I Class C
- > Calibration to DAkkS-DKD-R 3-7, Class 1 (on request)

### Scope of delivery:

- > Electronic torque wrench TorcoTronic III HighLine
- > Reversible ratchet 1/2"
- > USB cable
- > Software on CD-R
- > Test certificate acc. to DIN EN ISO 6789:2003 Type I Class C
- > Delivered in a transparent plastic box with insert

### Attention:

- > A PC, running a Windows® operating system (from Windows XP®) is required to obtain the full benefit of all the functions of this product.



Main menu



Settings



Parameter



Evaluation

"	mm	N·m	lbf·ft	kg	Code	No.
1/2	9 x 12	10-120	7,4-88,5	0.9	2648636	TT3KH 120
1/2	14 x 18	70-350	51,6-258,2	1.2	2648644	TT3KH 350

## Torque calibration analysers

## 8612

## ELECTRONIC TORQUE TESTER DREMOTEST E

0.2-3150 N·m / 1.8 lbf·in - 2323 lbf·ft

- > For verifying and setting clockwise torque wrenches and torque screwdrivers
- > Easy to operate, electronic torque tester with integrated torque transducer (DMS)
- > 5 models in the range from 0.2 to 3150 N·m
- > With fixed hexagon female drive 1/4", 10, 17, 36, 46 mm or 1.1/2" square drive adaptor (model dependent)
- > With 1/4", 3/8", 1/2", 3/4", 1" square drive adaptor or bit adaptor (model dependent)
- > High measurement accuracy: +/- 1% tolerance of reading, +/- 1 digit
- > Break-Point-measurement (1st peak)
- > Autoreset
- > Can be switched from N·m to lbf·ft
- > Serial interface RS232
- > Optionally available: adaptor for cigarette lighter socket (12 V), no. 8612-390

**Scope of delivery:**

- > Electronic torque tester
- > RS232 cable
- > Power supply unit with EURO plug (UK, US, AUS-adaptor on request)
- > 100 - 240 V, 50 - 60 Hz, max. 500 mA (see type plate)
- > 2 sockets (size and drive model-dependent)
- > Adaptor for 8612-3150
- > Operating instructions
- > Packaging



8612-300



8612-3150

N·m	lbf·in	lbf·ft	□	Resolution	Adaptor □	⚖	Code	No.
<b>0,2-12</b>	1,8-106		6.3	0,001	1/4", 3/8"	3.0	2288311	8612-012
<b>0,9-55</b>		0,7-40,6	10.0	0,01	1/4", 3/8"	3.0	1947699	8612-050
<b>9-320</b>		7-236	17.0	0,1	3/8", 1/2"	3.0	1856111	8612-300
<b>90-1100</b>		66-811	36.0	1	1/2", 3/4"	10.0	1947702	8612-1000
<b>500-3150</b>		369-2323		1	1"	26.0	2529858	8612-3150

**OPTIONAL ACCESSORIES:**

Description	⚖	Code	No.
<b>Adaptor for cigarette lighter socket</b>	0.150	1878719	8612-390

## Torsion test device E-tp

# ETP

## ELECTRONIC TORSION TEST DEVICE

- > For testing, and verifying clockwise and anti-clockwise torque wrenches
- > 5 models in the range of 0.5 to 3150 N-m
- > Vertical and horizontal testing according to DIN EN ISO 6789
- > Electronic torque tester integrated with measurement electronics
- > Robust housing from aluminium cast with separate or detachable operating display
- > Serial interface RS232 for PC
- > Traceable to national standards
- > ETP 15 with integrated overload protection and tool for manual resetting after unintended overload
- > Torque reading precision +/- 1 %, +/- 1 digit from reading figure
- > Factory certificate based on VDI 2646
- > Optional certificate as per DAkkS-DKD-R 3-8
- > A large LC graphic display
- > Wide measuring range in N-m, can be switched to cN-m, lbf-ft or lbf-in (model dependant)
- > Power supply unit with EURO plug (UK, US, AUS-adaptor on request)
- > Accessories: Operating display, display holder incl. cable, software incl. connection cable for PC



□"	□	N-m	lbf-ft	Resolution	Adaptor	⚖️	Code	No.
1/4	6.3	0,5-15	0,4-11	0,001 N-m	-	4.8	2795663	ETP 15
1/2	12.5	4-100	3-74	0,01 N-m	1/4", 3/8"	10.0	2795701	ETP 100
3/4	20.0	20-500	14,8-369	0,1 N-m	3/8", 1/2"	10.3	2795728	ETP 500
3/4	20.0	50-1000	36,9-737,6	0,1 N-m	3/8", 1/2"	10.3	2795868	ETP 1000
1.1/2	40.0	300-3150	221-2323	1,0 N-m	3/4", 1"	26.8	2795884	ETP 3150

# ETPG

## BASIC HOUSING

- > From aluminium cast (except ETP3150)
- > Serial interface RS232 for PC
- > Traceable to national standards with factory certificate
- > High measurement accuracy: +/- 1 % tolerance of reading, +/- 1 digit
- > ETPG 15 with integrated overload protection and tool for manual resetting after unintended overload
- > Wide measuring range in N-m, can be switched to cN-m, lbf-ft or lbf-in
- > Power supply unit with EURO plug (UK, US, AUS-adaptor on request)



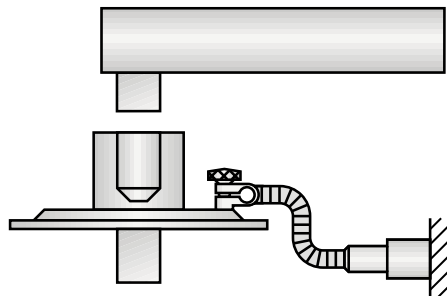
□"	□	N-m	lbf-ft	Resolution	Adaptor	⚖️	Code	No.
1/4	6.3	0,5-15	0,4-11	0,001 N-m	-	4.0	2795892	ETPG 15
1/2	12.5	4-100	3-74	0,01 N-m	1/4", 3/8"	9.2	2795906	ETPG 100
3/4	20.0	20-500	14,8-369	0,1 N-m	3/8", 1/2"	9.5	2795914	ETPG 500
3/4	20.0	50-1000	36,9-737,6	0,1 N-m	3/8", 1/2"	9.5	2795930	ETPG 1000
1.1/2	40.0	300-3150	221-2323	1,0 N-m	3/4", 1"	26.0	2795957	ETPG 3150

# Torque angle indicator

## TORQUE ANGLE INDICATOR 8200



- > When using torque angle indicator no. 8200, please note: The maximum output of the torque wrenches must not be passed. Please ensure that the maximum load capacity of the square drive including the values achieved by angle-regulated tightening is not exceeded:
- > 1/2" max. approx. 390 N-m
- > 3/4" max. approx. 1330 N-m



## 8200 TORQUE ANGLE INDICATOR

**Use:**  
 > Additional angle-regulated tightening for controlled torque and angle activation

- Features:**
- > Torque angle indicator with 1/2" or 3/4" square drive
  - > For additional precise angle tightening (0 - 360°)
  - > 1/2" square drive with ball locking device or 3/4" square drive with pin locking device
  - > No. 8200-01/-02 models with sliding magnetic and gripping arm
  - > No. 8200-11 only with magnetic arm - simple design
  - > To operate with a suitable torque wrench
  - > The maximum output of the torque wrench must not be passed

**Scope of delivery:**  
 > Torque angle indicator  
 > Delivered in a strong plastic case (no. 8200-01/-02), model no. 8200-11 in sturdy hard cardboard packaging



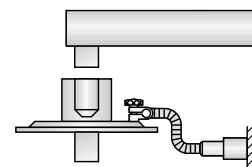
8200-01



8200-02



8200-11



■ "	□ "	∅ mm	∠ °	⚖ kg	Code	No.
1/2	1/2	80	0-360	0.330	1195980	8200-01
1/2	1/2	82	0-360	0.330	7718480	8200-11
3/4	3/4	120	0-360	0.530	7716510	8200-02

## Accessories

## End fittings 16 Z

8791 (MM)  
OPEN END FITTING

## 16 Z

- > For accessing bolts in cramped and hard-to-reach locations, easy to change
- > Forged
- > Chrome-vanadium steel, matt chrome-plated
- > With eject-pin for unlocking



Ø mm	Ø	mm	Ø mm	Depth gauge		Code	No.
7	16	5	20.5	32	0.080	7774470	8791-07
8	16	5	20.5	32	0.080	7774550	8791-08
9	16	5	20.5	32	0.080	7774630	8791-09
10	16	7	29.0	32	0.090	7710070	8791-10
11	16	7	29.0	32	0.090	7710150	8791-11
12	16	7	29.0	32	0.090	7676890	8791-12
13	16	8	34.5	32	0.120	7710230	8791-13
14	16	8	34.5	32	0.120	7710310	8791-14
15	16	8	34.5	32	0.120	7710580	8791-15
16	16	9	41.5	32	0.160	7710660	8791-16
17	16	9	41.5	32	0.160	7710740	8791-17
18	16	9	41.5	32	0.160	7676970	8791-18
19	16	10	45.0	32	0.180	7710820	8791-19

Ø mm	Ø	mm	Ø mm	Depth gauge		Code	No.
20	16	10	45.0	32	0.180	7710900	8791-20
21	16	10	45.0	32	0.180	7677000	8791-21
22	16	11	56.0	32	0.220	7711040	8791-22
23	16	11	56.0	32	0.220	1977164	8791-23
24	16	11	56.0	32	0.220	7711120	8791-24
25	16	11	56.0	32	0.220	1552279	8791-25
26	16	11	56.0	32	0.220	1552287	8791-26
27	16	12	60.5	32	0.260	7711200	8791-27
28	16	12	68.0	32	0.300	1207008	8791-28
29	16	12	68.0	32	0.300	1552309	8791-29
30	16	12	68.0	32	0.300	7774710	8791-30
32	16	12	68.0	32	0.300	7774980	8791-32
36	16	12	68.0	32	0.300	1552317	8791-36

8791 (AF)  
OPEN END FITTING

## 16 Z

- > For accessing bolts in cramped and hard-to-reach locations, easy to change
- > Forged
- > Chrome-vanadium steel, matt chrome-plated
- > With eject-pin for unlocking



Ø AF	Ø	mm	Ø mm	Depth gauge		Code	No.
1/4	16	5	20.5	32	0.090	1211421	8791-1/4AF
5/16	16	5	20.5	32	0.080	7720030	8791-5/16AF
3/8	16	7	29.0	32	0.090	1211447	8791-3/8AF
7/16	16	7	29.0	32	0.090	7720110	8791-7/16AF
1/2	16	8	34.5	32	0.090	7720380	8791-1/2AF
9/16	16	8	34.5	32	0.120	7720460	8791-9/16AF
5/8	16	9	41.5	32	0.160	7720540	8791-5/8AF
11/16	16	9	41.5	32	0.160	7720620	8791-11/16AF
3/4	16	10	45.0	32	0.180	7720700	8791-3/4AF
13/16	16	10	45.0	32	0.090	1211439	8791-13/16AF
7/8	16	11	56.0	32	0.220	7720890	8791-7/8AF
15/16	16	11	56.0	32	0.220	7720970	8791-15/16AF

Ø AF	Ø	mm	Ø mm	Depth gauge		Code	No.
1	16	11	56.0	32	0.220	7721000	8791-1AF
1.1/16	16	12	60.5	32	0.260	7721190	8791-1.1/16AF
1.1/8	16	12	68.0	32	0.300	7721270	8791-1.1/8AF
1.3/16	16	12	68.0	32	0.300	7776170	8791-1.3/16AF
1.1/4	16	12	68.0	32	0.300	7776250	8791-1.1/4AF
1.5/16	16	12	68.0	32	0.300	7776330	8791-1.5/16AF

# 8792 (MM)

## RING END FITTING

16 Z

- > For accessing bolts in cramped and hard-to-reach locations, easy to change
- > Forged
- > Chrome-vanadium steel, matt chrome-plated
- > With eject-pin for unlocking



Ø mm	Ø	mm <sub>2</sub>	Ø mm	Depth gauge	kg	Code	No.
7	16	8	15.0	32	0.090	7775010	8792-07
8	16	8	15.0	32	0.090	7775280	8792-08
9	16	8	15.0	32	0.090	7775360	8792-09
10	16	10	19.5	32	0.100	7712600	8792-10
11	16	10	19.5	32	0.100	7712790	8792-11
12	16	10	19.5	32	0.100	7677190	8792-12
13	16	12	23.5	32	0.140	7712870	8792-13
14	16	12	23.5	32	0.140	7712950	8792-14
15	16	12	23.5	32	0.140	7713090	8792-15
16	16	13	28.5	32	0.180	7713170	8792-16

Ø mm	Ø	mm <sub>2</sub>	Ø mm	Depth gauge	kg	Code	No.
17	16	13	28.5	32	0.180	7713250	8792-17
18	16	13	28.5	32	0.180	7677270	8792-18
19	16	14	31.5	32	0.210	7713330	8792-19
20	16	14	31.5	32	0.210	7713410	8792-20
21	16	14	31.5	32	0.210	7677350	8792-21
22	16	15	39.5	32	0.260	7713680	8792-22
23	16	15	39.5	32	0.270	1211471	8792-23
24	16	15	39.5	32	0.260	7713760	8792-24
27	16	16	41.5	32	0.300	7713840	8792-27

# 8792 (AF)

## RING END FITTING

16 Z

- > For accessing bolts in cramped and hard-to-reach locations, easy to change
- > Forged
- > Chrome-vanadium steel, matt chrome-plated
- > With eject-pin for unlocking



Ø "AF	Ø	mm <sub>2</sub>	Ø mm	Depth gauge	kg	Code	No.
1/4	16	8	15.0	32	0.100	1211455	8792-1/4AF
5/16	16	8	15.0	32	0.090	7721350	8792-5/16AF
3/8	16	10	19.5	32	0.100	1211498	8792-3/8AF
7/16	16	10	19.5	32	0.100	7721430	8792-7/16AF
1/2	16	12	23.5	32	0.100	7721510	8792-1/2AF
9/16	16	12	23.5	32	0.140	7721780	8792-9/16AF
5/8	16	13	28.5	32	0.140	7721860	8792-5/8AF

Ø "AF	Ø	mm <sub>2</sub>	Ø mm	Depth gauge	kg	Code	No.
11/16	16	13	28.5	32	0.180	7721940	8792-11/16AF
3/4	16	14	31.5	32	0.210	7722080	8792-3/4AF
13/16	16	14	31.5	32	0.100	1211463	8792-13/16AF
7/8	16	15	39.5	32	0.260	7722160	8792-7/8AF
15/16	16	15	39.5	32	0.260	7722240	8792-15/16AF
1	16	15	39.5	32	0.300	7722320	8792-1AF
1.1/16	16	16	41.5	32	0.300	7722400	8792-1.1/16AF

# 8797

## FLARED END FITTING

16 Z

- > For accessing bolts in cramped and hard-to-reach locations, easy to change
- > Forged
- > Chrome-vanadium steel, matt chrome-plated
- > With eject-pin for unlocking



Ø mm	Ø	mm <sub>2</sub>	Ø mm	max. N·m	c <sub>1</sub>	Depth gauge	kg	Code	No.
7	16	8	15.0	7.0	5.5	32	0.090	1211587	8797-07
8	16	8	15.0	6.5	6.0	32	0.090	1211595	8797-08
9	16	8	15.0	5.5	6.5	32	0.090	1211609	8797-09
10	16	10	19.5	26.0	7.0	32	0.100	1211625	8797-10
11	16	10	19.5	19.0	8.5	32	0.100	1211633	8797-11
12	16	10	19.5	13.0	9.0	32	0.120	1211641	8797-12
13	16	12	23.5	34.0	10.0	32	0.140	1211668	8797-13
14	16	12	23.5	24.0	11.2	32	0.140	7664290	8797-14
15	16	12	23.5	18.0	12.0	32	0.140	1211684	8797-15

Ø mm	Ø	mm <sub>2</sub>	Ø mm	max. N·m	c <sub>1</sub>	Depth gauge	kg	Code	No.
16	16	13	28.5	66.0	13.0	32	0.180	1211692	8797-16
17	16	13	28.5	56.0	14.0	32	0.180	1211706	8797-17
18	16	13	28.5	45.0	14.5	32	0.200	1211714	8797-18
19	16	14	31.5	80.0	15.0	32	0.210	1211722	8797-19
20	16	14	31.5	60.0	16.0	32	0.210	1211731	8797-20
21	16	14	31.5	43.0	16.5	32	0.210	1211749	8797-21
22	16	15	39.5	172.0	17.0	32	0.260	1211757	8797-22
24	16	15	39.5	118.0	18.0	32	0.260	1211773	8797-24
27	16	16	41.5	76.0	20.0	32	0.300	1211781	8797-27

## 8754 RATCHET HEAD

16 Z

- > For accessing bolts in cramped and hard-to-reach locations, easy to change
- > Forged
- > Chrome-vanadium steel, matt chrome-plated

- > With eject pin for unlocking
- > Max. continuous load of ratchet according to DIN EN ISO 6789:2003 and/or maximum load of cavity



8754-01



8754-02



■"	■	∅	Type	Depth gauge	Continuous load	⚖	Code	No.
3/8	10.0	16	●	32	3/8" = 135 N-m	0.170	7711980	8754-01
1/2	12.5	16	●	32	1/2" = 340 N-m	0.270	7712010	8754-02

## 8756 END FITTING IN-HEX

16 Z

- > For accessing bolts in cramped and hard-to-reach locations, easy to change
- > Forged
- > Chrome-vanadium steel, matt chrome-plated
- > With eject-pin for unlocking

## 8790 - 8793 FIXED SQUARE HEAD

16 Z

- > For accessing bolts in cramped and hard-to-reach locations, easy to change
- > Forged
- > Chrome-vanadium steel, matt chrome-plated
- > With eject pin for unlocking
- > Max. continuous load of ratchet according to DIN EN ISO 6789:2003 and/or maximum load of cavity



● mm	∅	Depth gauge	⚖	Code	No.
3	16	32	0.100	7773740	8756-03
4	16	32	0.100	7773820	8756-04
5	16	32	0.100	7773900	8756-05
6	16	32	0.100	7774040	8756-06
8	16	36	0.110	7774120	8756-08

■"	■	∅	Type	Depth gauge	Continuous load	⚖	Code	No.
3/8	10.0	16	■	32	3/8" = 135 N-m	0.350	7709490	8790-00
1/2	12.5	16	■	32	1/2" = 340 N-m	0.380	7709570	8793-00



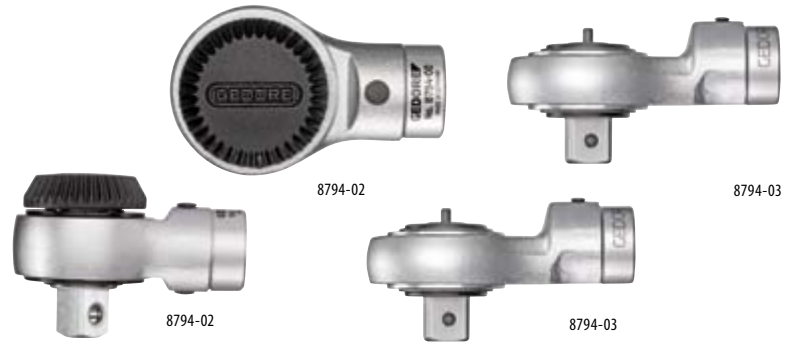


# 8794-02 - 8794-03

## RATCHET HEAD

22 Z

- > For accessing bolts in cramped and hard-to-reach locations, easy to change
- > Forged
- > Chrome-vanadium steel, matt chrome-plated
- > With eject-pin for unlocking



■"	■	∅	Type	Depth gauge	Continuous load	⚖️	Code	No.
3/4	20	22	●□	56	3/4" = 850 N-m	1.011	2961385	8794-02
3/4	20	22	●□	56	3/4" = 850 N-m	0.950	1427318	8794-03

## End fittings 28 Z

# 8798

## OPEN END FITTING

28 Z

- > For accessing bolts in cramped and hard-to-reach locations, easy to change
- > Chrome-vanadium steel, matt chrome-plated
- > With catch retention
- > Special sizes available on request



∅ mm	∅	mm <sup>2</sup> ↔	∅ mm	Depth gauge	⚖️	Code	No.
36	28	18.0	77.5	75	1.9	1565346	8798-36
41	28	19.5	89.0	75	1.9	1565354	8798-41
46	28	20.0	99.0	75	1.9	1565362	8798-46
50	28	21.5	108.0	75	1.9	1565370	8798-50
55	28	24.5	118.5	75	2.1	1565389	8798-55
60	28	24.5	129.5	75	2.1	1565397	8798-60
65	28	28.0	140.5	75	2.4	1565400	8798-65
70	28	30.0	151.0	75	2.9	1565419	8798-70
75	28	31.5	163.0	100	4.0	1565427	8798-75

# 8799

## RING END FITTING

28 Z

- > For accessing bolts in cramped and hard-to-reach locations, easy to change
- > Chrome-vanadium steel, matt chrome-plated
- > With catch retention
- > Special sizes available on request



∅ mm	∅	mm <sup>2</sup> ↔	∅ mm	Depth gauge	⚖️	Code	No.
36	28	19.5	60	75	1.6	1565494	8799-36
41	28	20.5	66	75	1.8	1565508	8799-41
46	28	22.5	75	75	2.1	1565516	8799-46
50	28	23.5	80	75	2.2	1565524	8799-50
55	28	25.0	88	75	2.4	1565532	8799-55
60	28	26.0	94	75	2.5	1565540	8799-60
65	28	29.0	101	75	2.9	1565559	8799-65
70	28	32.5	110	75	2.0	1565567	8799-70
75	28	34.0	117	100	4.5	1565575	8799-75
80	28	35.0	123	100	4.8	1565583	8799-80

# 8794

## RATCHET HEAD

28 Z

- > For accessing bolts in cramped and hard-to-reach locations, easy to change
- > Chrome-vanadium steel, matt chrome-plated
- > With catch retention
- > Max. continuous load of coupler according to DIN EN ISO 6789:2003 and/or maximum support load: 1000 N-m



■"	■	∅	Type	Depth gauge	⚖️	Code	No.
3/4	20	28	●□	75	1.8	1566032	8794-05

## End fittings 9x12 SE

## 7112

### RECTANGULAR OPEN END FITTING

9x12

- › For accessing bolts in cramped and hard-to-reach locations, easy to change
- › Forged
- › Chrome-vanadium steel, matt chrome-plated
- › With eject-pin for unlocking



Ø mm	□ mm	mm <sup>2</sup> ⇄	Ø mm	Depth gauge	⚖ kg	Code	No.
7	9 x 12	5.5	20.0	17.5	0.035	7688390	7112-07
8	9 x 12	5.5	21.5	17.5	0.035	7688550	7112-08
9	9 x 12	5.5	23.0	17.5	0.035	7679050	7112-09
10	9 x 12	5.5	24.5	17.5	0.040	7688630	7112-10
11	9 x 12	5.5	26.0	17.5	0.030	7688980	7112-11
12	9 x 12	5.5	27.5	17.5	0.035	7679560	7112-12
13	9 x 12	5.5	29.0	17.5	0.035	7689010	7112-13
14	9 x 12	7.5	31.0	20.0	0.040	7689360	7112-14

Ø mm	□ mm	mm <sup>2</sup> ⇄	Ø mm	Depth gauge	⚖ kg	Code	No.
15	9 x 12	7.5	33.0	20.0	0.040	7689440	7112-15
16	9 x 12	7.5	35.0	20.0	0.045	7679990	7112-16
17	9 x 12	7.5	37.0	20.0	0.050	7689600	7112-17
18	9 x 12	7.5	39.0	20.0	0.060	7684560	7112-18
19	9 x 12	7.5	41.0	20.0	0.060	7689790	7112-19

## 7212

### RECTANGULAR RING END FITTING

9x12

- › For accessing bolts in cramped and hard-to-reach locations, easy to change
- › Forged
- › Chrome-vanadium steel, matt chrome-plated
- › With eject-pin for unlocking



Ø mm	□ mm	mm <sup>2</sup> ⇄	Ø mm	Depth gauge	⚖ kg	Code	No.
7	9 x 12	8	13.0	17.5	0.030	7691340	7212-07
8	9 x 12	8	14.2	17.5	0.030	7691420	7212-08
10	9 x 12	8	17.2	17.5	0.030	7691690	7212-10
11	9 x 12	8	18.6	17.5	0.030	7691770	7212-11
12	9 x 12	12	20.0	17.5	0.035	7677940	7212-12
13	9 x 12	12	21.5	17.5	0.035	7691930	7212-13
14	9 x 12	12	23.0	17.5	0.040	7692230	7212-14

Ø mm	□ mm	mm <sup>2</sup> ⇄	Ø mm	Depth gauge	⚖ kg	Code	No.
15	9 x 12	12	24.0	17.5	0.040	7692580	7212-15
16	9 x 12	13	26.0	17.5	0.040	7678080	7212-16
17	9 x 12	13	27.0	17.5	0.040	7692740	7212-17
18	9 x 12	13	28.5	17.5	0.040	7678160	7212-18
19	9 x 12	13	30.5	17.5	0.040	7692820	7212-19
21	9 x 12	15	33.0	17.5	0.050	7678240	7212-21
22	9 x 12	15	34.5	17.5	0.050	7693040	7212-22

## 7312

### RECTANGULAR FLARED END FITTING

9x12

- › For accessing bolts in cramped and hard-to-reach locations, easy to change
- › Forged
- › Chrome-vanadium steel, matt chrome-plated
- › With eject-pin for unlocking



Ø mm	□ mm	mm <sup>2</sup> ⇄	Ø mm	Opening width	Depth gauge	⚖ kg	Code	No.
10	9 x 12	12	21.0	7.3	17.5	0.040	7685290	7312-10
11	9 x 12	12	22.5	8.7	17.5	0.040	7685370	7312-11
12	9 x 12	12	24.0	9.0	17.5	0.040	7699590	7312-12
13	9 x 12	12	25.0	10.0	17.5	0.040	7679210	7312-13
14	9 x 12	13	27.0	11.0	17.5	0.050	7679480	7312-14

Ø mm	□ mm	mm <sup>2</sup> ⇄	Ø mm	Opening width	Depth gauge	⚖ kg	Code	No.
17	9 x 12	13	31.5	14.0	17.5	0.065	7685880	7312-17
18	9 x 12	15	33.0	14.7	17.5	0.065	7679640	7312-18
19	9 x 12	15	34.5	15.3	17.5	0.065	7686260	7312-19
22	9 x 12	15	39.0	17.0	17.5	0.065	7679720	7312-22

## 7412

### RECTANGULAR REVERSIBLE RATCHET HEAD

9x12

- > For accessing bolts in cramped and hard-to-reach locations, easy to change
- > Forged
- > Chrome-vanadium steel, matt chrome-plated
- > With eject-pin for unlocking
- > Fine-toothed
- > Return angle 5 degrees
- > Max. continuous load of ratchet according to DIN EN ISO 6789:2003 and/or maximum load of cavity



"	■	□ mm	∠°	mm	⌀ mm	Depth gauge	Continuous load	⚖	Code	No.
1/4	6.3	9 x 12	5	16.6	25	17.5	1/4" = 30 N·m	0.060	7672710	7412-00
3/8	10.0	9 x 12	5	23.2	34	17.5	3/8" = 135 N·m	0.140	7686500	7412-01
1/2	12.5	9 x 12	5	24.2	34	17.5	1/2" = 150 N·m	0.150	7687230	7412-02

## 7612

### RECTANGULAR FIXED SQUARE HEAD

9x12

- > For accessing bolts in cramped and hard-to-reach locations, easy to change
- > Forged
- > Chrome-vanadium steel, matt chrome-plated
- > With eject-pin for unlocking
- > Max. continuous load of ratchet according to DIN EN ISO 6789:2003 and/or maximum load of cavity



"	■	□ mm	mm	⌀ mm	Depth gauge	Continuous load	⚖	Code	No.
1/4	6.3	9 x 12	14	20	17.5	1/4"/30 N·m	0.070	7672630	7612-00
3/8	10.0	9 x 12	14	20	17.5	3/8"/135 N·m	0.070	7679800	7612-01
1/2	12.5	9 x 12	14	20	17.5	1/2"/150 N·m	0.080	7687900	7612-02

## 7812

### RECTANGULAR BIT HOLDER

9x12

- > For accessing bolts in cramped and hard-to-reach locations, easy to change
- > Forged
- > Chrome-vanadium steel, matt chrome-plated
- > With eject-pin for unlocking



"	■	□ mm	mm	⌀ mm	Depth gauge	⚖	Code	No.
1/4	6.3	9 x 12	10.0	14	17.5	0.040	2101645	7812-10
5/16	8.0	9 x 12	12.5	16	17.5	0.040	7697970	7812-00

# 7912

## RECTANGULAR WELD-ON FITTING

9x12

- › For accessing bolts in cramped and hard-to-reach locations, easy to change
- › Bear the depth gauges in mind
- › Chrome-vanadium steel 31CrV3



↳ mm	mm	mm	mm	Depth gauge	kg	Code	No.
14	9 x 12	14.5	19	8	0.030	7698190	7912-00

# SUKSE

## RECTANGULAR RING RATCHET SPANNER, REVERSIBLE

9x12

- › 9x12 mm rectangular cavity with pin-locking
- › Flat ring ratchet with UD-profile, fine-toothed
- › With recessed lever change
- › For loosening or fast tightening with high torque transfer
- › Non-glare look thanks to matt chrome-plating, locking insert and pawl manganese-phosphated
- › GEDORE vanadium steel 31CrV3, forged
- › To operate with a 9x12 mm torque wrench or rectangular handle 9x12 mm



mm	mm	°	h	b	Depth gauge	kg	Code	No.
10	9 x 12	7	7.7	21.0	40	0.070	2827735	SUKSE9 10
13	9 x 12	7	9.0	25.7	42	0.090	2827743	SUKSE9 13
17	9 x 12	6	10.6	33.6	45	0.130	2827751	SUKSE9 17
19	9 x 12	6	11.7	36.3	52	0.150	2827778	SUKSE9 19

# AGSE9

## RECTANGULAR HANDLE SE

9x12

- › To operate with rectangular end fittings 9x12
- › For removing bolts or nuts, especially in confined spaces
- › Without torque function
- › GEDORE vanadium steel 31CrV3, matt chrome-plated
- › Non-slip 2-component handle with hanging hole
- › Max. continuous load of cavity according to DIN EN ISO 6789:2003 and/or maximum support load : 150 N-m



mm	L	h	b	kg	Code	No.
9 x 12	267	18.5	22	0.320	2827786	AGSE9

## End fittings 14x18 SE

7118  
RECTANGULAR OPEN END FITTING

14x18

- › For accessing bolts in cramped and hard-to-reach locations, easy to change
- › Forged
- › Chrome-vanadium steel, matt chrome-plated
- › With eject-pin for unlocking



Ø mm	□ mm	mm $\frac{1}{2}$	Ø mm	Depth gauge	$\frac{kg}{lb}$	Code	No.
13	14 x 18	7	30.0	25.0	0.120	7689870	7118-13
14	14 x 18	7	32.0	25.0	0.120	7690020	7118-14
15	14 x 18	7	34.0	25.0	0.120	7690100	7118-15
16	14 x 18	9	35.5	25.0	0.125	7685610	7118-16
17	14 x 18	9	37.0	25.0	0.130	7690370	7118-17
18	14 x 18	9	39.0	25.0	0.130	7686180	7118-18
19	14 x 18	9	41.0	25.0	0.130	7690450	7118-19
21	14 x 18	11	45.0	25.0	0.155	7686420	7118-21
22	14 x 18	11	47.0	25.0	0.150	7690610	7118-22

Ø mm	□ mm	mm $\frac{1}{2}$	Ø mm	Depth gauge	$\frac{kg}{lb}$	Code	No.
24	14 x 18	11	51.0	25.0	0.170	7690880	7118-24
27	14 x 18	13	58.5	32.5	0.185	7690960	7118-27
29	14 x 18	13	63.0	32.5	0.220	2212285	7118-29
30	14 x 18	13	67.5	32.5	0.220	7691260	7118-30
32	14 x 18	13	67.5	32.5	0.220	7687740	7118-32
34	14 x 18	15	74.0	33.5	0.255	1963708	7118-34
36	14 x 18	15	78.0	36.0	0.257	1963716	7118-36
41	14 x 18	15	82.0	40.0	0.261	1963724	7118-41

7218  
RECTANGULAR RING END FITTING

14x18

- › For accessing bolts in cramped and hard-to-reach locations, easy to change
- › Forged
- › Chrome-vanadium steel, matt chrome-plated
- › With eject-pin for unlocking



Ø mm	□ mm	mm $\frac{1}{2}$	Ø mm	Depth gauge	$\frac{kg}{lb}$	Code	No.
13	14 x 18	12.0	21.5	25	0.120	7693120	7218-13
14	14 x 18	12.0	23.0	25	0.120	7693390	7218-14
15	14 x 18	12.0	24.2	25	0.115	7693470	7218-15
16	14 x 18	12.0	25.7	25	0.125	7678320	7218-16
17	14 x 18	12.0	27.2	25	0.125	7693630	7218-17
18	14 x 18	12.0	28.5	25	0.125	7678830	7218-18
19	14 x 18	12.0	30.5	25	0.125	7693710	7218-19
21	14 x 18	15.0	33.0	25	0.140	7678910	7218-21
22	14 x 18	15.0	34.5	25	0.140	7693980	7218-22
24	14 x 18	15.0	37.5	25	0.140	7694280	7218-24

Ø mm	□ mm	mm $\frac{1}{2}$	Ø mm	Depth gauge	$\frac{kg}{lb}$	Code	No.
27	14 x 18	17.5	41.5	31	0.150	7694440	7218-27
30	14 x 18	17.5	45.0	31	0.160	7694790	7218-30
32	14 x 18	17.5	47.5	31	0.165	7695920	7218-32
34	14 x 18	19.0	50.5	31	0.195	7679130	7218-34
36	14 x 18	19.0	53.0	31	0.195	7696220	7218-36
41	14 x 18	19.0	59.0	31	0.225	7696300	7218-41

# 7418

## RECTANGULAR REVERSIBLE RATCHET HEAD

14x18

- > For accessing bolts in cramped and hard-to-reach locations, easy to change
- > Forged
- > Chrome-vanadium steel, matt chrome-plated
- > With eject-pin for unlocking
- > Fine-toothed
- > Return angle 7 degrees
- > Max. continuous load of ratchet according to DIN EN ISO 6789:2003 and/or maximum load of cavity



"	mm	mm	°	mm	mm	Depth gauge	Continuous load	kg	Code	No.
1/2	12.5	14 x 18	7,2	28.8	47	25	1/2" = 340 N-m	0.350	7687580	7418-02
3/4	20.0	14 x 18	7,2	35.5	64	33	3/4" = 400 N-m	0.780	7687660	7418-04

# 7618

## RECTANGULAR FIXED SQUARE HEAD

14x18

- > For accessing bolts in cramped and hard-to-reach locations, easy to change
- > Forged
- > Chrome-vanadium steel, matt chrome-plated
- > With eject pin for unlocking
- > Max. continuous load of ratchet according to DIN EN ISO 6789:2003 and/or maximum load of cavity



"	mm	mm	mm	mm	Depth gauge	Continuous load	kg	Code	No.
1/2	12.5	14 x 18	18	27	25	1/2" = 340 N-m	0.200	7688040	7618-02
3/4	20.0	14 x 18	25	40	25	3/4" = 400 N-m	0.390	7688200	7618-04

# 7818

## RECTANGULAR BIT HOLDER

14x18

- > For accessing bolts in cramped and hard-to-reach locations, easy to change
- > Forged
- > Chrome-vanadium steel, matt chrome-plated
- > With eject-pin for unlocking



"	mm	mm	mm	mm	Depth gauge	kg	Code	No.
5/16	8	14 x 18	12.5	16	25	0.100	7698000	7818-00

# 7918

## RECTANGULAR WELD-ON FITTING

14x18

- > For accessing bolts in cramped and hard-to-reach locations, easy to change
- > Bear the depth gauges in mind
- > Chrome-vanadium steel 31CrV3

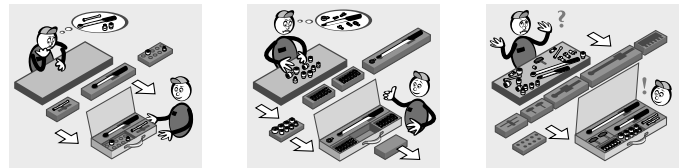


mm	mm	mm	mm	mm	Depth gauge	kg	Code	No.
25	14 x 18	21.5	26	12	0.100	7698430	7918-00	

## Empty standard packaging

# MODULE SYSTEMS - FLEXIBILITY WITH FLAIR

- > The module system adapts itself exactly to your wishes and requirements. At last, you can assemble your sets completely individually. Exactly and only using the tools you actually need. For every need, our system provides you with the perfect solution. Whether you chose a standard or an individual solution, your DREMASTER®/TORCOFIX torque wrenches with or without accessories, are always stored and transported professionally by virtue of the modular system design.
- > Your set is flexibly alterable and extendible at all times. Just replace or add modules. The modules themselves are delivered with dummy plugs. Simply remove the plugs from the cavities you wish to load with your tools or accessory units. The remaining cavities remain closed - that's what we call neat.
- > You tell us which tools you would like to combine into a set and we will then take care of the rest and you will get your desired set without delay. Finished and ready!



## PLASTIC CASSETTES EMPTY FOR DREMOMETER MINI + AM

**Use:**

- > Standard packaging for sets of the torque wrench series DREMOMETER MINI and AM
- > Robust and solid, best for storage and transport

**Features:**

- > With foam rubber inlay and nest-holes for the accessories

**Scope of delivery:**

- > Empty black plastic cassettes with foam inlay
- > Delivery in sturdy cardboard packaging

## SHEET METAL CASE EMPTY FOR DREMOMETER A-F

**Use:**

- > Standard packaging for sets of the torque wrench series DREMOMETER A-F
- > Robust and solid, best for storage and transport

**Features:**

- > With integrated metal-flight and nest-holes for the accessories
- > Hinges, locks and hand grip made of steel
- > GEDORE blue powder-coated

**Scope of delivery:**

- > Sheet metal case, empty
- > Delivery in sturdy cardboard packaging



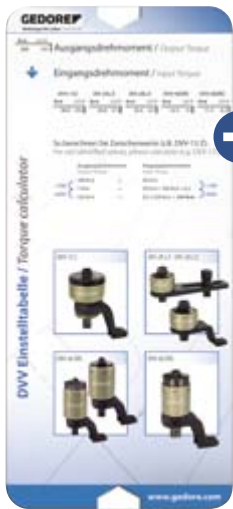
Description	L	W	H	📏	Code	No.
<b>Plastic cassette + foam inlay for DREMO MINI</b>	275	150	42	0.296	1986805	753-88
<b>Plastic cassette + foam insert for DREMO AM</b>	275	150	42	0.310	7620910	8554-99

Description	L	W	H	📏	Code	No.
<b>Sheet metal case for DREMO A</b>	370	115	50	1.200	7621050	8560-90
<b>Sheet metal case for DREMO B</b>	485	115	52	1.698	7621130	8561-90
<b>Sheet metal case for DREMO BC/C</b>	630	115	52	1.950	7621210	8562-90
<b>Sheet metal case for DREMO D/DS</b>	830	165	73	3.713	7621480	8563-90
<b>Sheet metal case for DREMO DR/DX</b>	830	165	73	3.656	7622100	8571-90
<b>Sheet metal case for DREMO E / EK</b>	945	270	100	10.300	7621560	8564-90
<b>Sheet metal case for DREMO F</b>	1040	175	100	6.700	1742876	8572-90



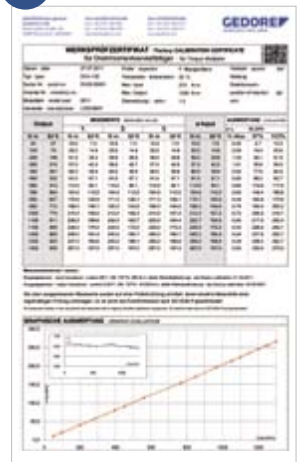


# TORQUE MULTIPLIERS DREMOPLUS ALU



GEDORE DVV-13Z	
Serien-No.	DV02.00018
Model	2011
Ratio	1:5
Max. Input Torque	270 N·m 200 lbf·ft
Max. Output Torque	1300 N·m 950 lbf·ft

INPUT		OUTPUT	
N·m	lbf·ft	N·m	lbf·ft
10.9	8.7	50	40
21.1	14.7	100	70
41.7	31.2	200	150
58.8	41.3	285	200
80.6	61.1	395	300
91.9	71.6	450	350
115.0	82.0	560	400
156.3	112.2	765	550
174.2	122.7	850	600
198.4	143.8	965	700
216.8	154.5	1050	750
227.4	165.2	1100	800
237.9	175.7	1150	850
248.0	185.9	1200	900
258.2	190.1	1250	920
268.9	196.5	1300	950



## Safety Plus Your advantage

- > The slender, lighter structure of the appliances ensures convenient and safe working - even where conditions are particularly cramped.
- > Repetition-accurate and precise results - supported by individual factory test certificates - ensure a maximum degree of job safety.
- > High degree of resilience and long life of the appliances attributable to a low-backlash planet gear with Ceramic-Teflon® coating.
- > A 30% + lighter steel housing thanks to the use of high-performance aluminium.
- > Each torque multiplier is examined as to its torque range at the factory and provided with an individual factory test certificate.
- > Precise, reliable figures - even under extreme climatic conditions
- > Easy to operate: The most common INPUT/OUTPUT torques on the torque multiplier



# WHAT MAKES FOR A GOOD TORQUE MULTIPLIER?

- > Light yet with the appliance remaining sturdy.
- > The torque and repeatability accuracy is at  $\pm 3\%$ . Only in this way is dependable screw tightening work assured with reproducible accuracy.
- > Both the torque settings and individual appliance components can be traced back.
- > A factory test certificate ensures traceability of operations on the basis of ISO 9000. An individual factory test certificate is prepared for each and every torque multiplier and contains comprehensive information on readings, deviations, torque sensors and environmental influences.
- > Particularly when unloosening seized screw connections, minimised impacts on the tooth flanks appear in a low backlash planet gear. The greater the precision with which the components fit together, the more stable the overall structure and the longer the service life. This precision can only be assured by a high in-house manufacturing proportion and consistent quality checks.
- > An overload safety mechanism should be integrated at torques upwards of 2000 N·m. No damage occurs to the gear should it be overloaded.



## Selection criteria

### 1. Torque

Select your torque multiplier on the basis of the maximum output torque.

### 2. Loading factor and frequency (load spectrum)

It would be wrong to constantly operate the appliance at its maximum capacity - just as it would be for any machine or any car. This also holds good for the choice of the torque multiplier. Permanently operating a torque multiplier for screw-tightening applications at maximum torque may impact negatively on its service life.

### 3. Supporting situation

Various supporting situations may be a determining factor in the selection of the torque multiplier.

**Support at a raised position:** The L-form reaction arm would be suitable should you want to attach the reaction arm to a point above the screwing-tightening level. A warning here in that the inputted bending forces result in a reduction of the maximum permitted torque!

**Support at the level of the screw:** Our recommendation - should you want to attach the reaction arm at the screw-tightening level - is either for a Z-form reaction arm or the straight L-form with adjustable reaction square.

### 4. Anti-wind-up ratchet

A minimum 180° torque wrench field of movement should be on hand. As such, the recommendation is for an appliance complete with an anti-wind-up ratchet. In this way, pre-tension in the appliance is maintained and does not need to be re-created with each lift.

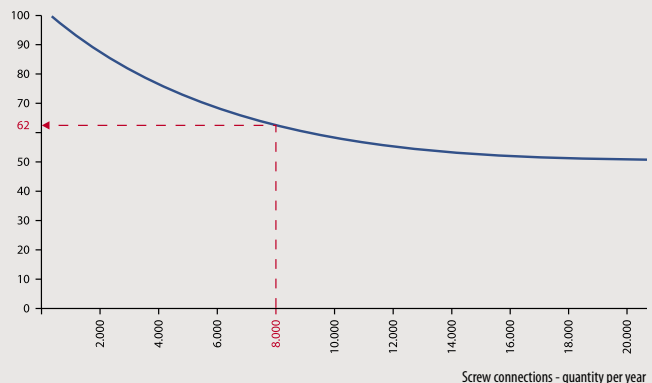
## i Application case

8,000 screws a year are to be tightened at 4000 N·m. The following calculation needs to be carried out on the basis of the diagram to find the right appliance:













$$\frac{\text{Torque} \times 100\%}{\text{Loading}} = \frac{4.000 \text{ N}\cdot\text{m} \times 100\%}{62\%}$$

Choose an appliance with a max. 6452 N·m torque. The DVV-60ZRS would be ideally suitable here.

Plan for a sufficient reserve in unloosening the screw connection. The torque needed to unloosen a screw connection can be many times the tightening torque.



# PRODUCT OVERVIEW TORQUE MULTIPLIERS DREMOPLUS ALU

Series / Type	Accuracy +/-	Drive	Output drive	Ratio	Reaction arm	Anti-wind-up ratchet	Overload safety mechanism				Range N·m tested and certified
							Sun gear	Shearing square	Slipper non-destructive	Ceramic-Teflon® coating	
 DVV-13 Z	3 %	1/2"	3/4"	1:5	Z	○	●	○	○	○	250 – 1.300 N·m
 DVI-20 Z	3 %	3/4"	1"	1:4	Z	○	○	●	○	○	500 – 2.000 N·m
 DVI-20 L	3 %	3/4"	1"	1:4	L	○	○	●	○	○	500 – 2.000 N·m
 DVI-28 Z	3 %	3/4"	1"	1:5,5	Z	○	○	●	○	○	500 – 2.800 N·m
 DVI-28 L	3 %	3/4"	1"	1:5,5	L	○	○	●	○	○	500 – 2.800 N·m
 DVV-40 Z	3 %	1/2"	1"	1:16	Z	○	○	○	●	●	500 – 4.000 N·m
 DVV-40 ZRS	3 %	1/2"	1"	1:16	Z	●	○	○	●	●	500 – 4.000 N·m
 DVV-60 ZRS	3 %	3/4"	1.1/2"	1:18	Z	●	○	○	●	●	700 – 6.000 N·m
 DVV-80 ZRS	3 %	3/4"	1.1/2"	1:22	Z	●	○	○	●	●	750 – 8.000 N·m
 DVV-100 RS	3 %	3/4"	1.1/2"	1:28,5	Z	●	○	○	●	●	1.000 – 10.000 N·m
 DVV-130 ZRS	3 %	3/4"	1.1/2"	1:39	Z	●	○	○	●	●	1.200 – 13.000 N·m
 DVV-540 RS	3 %	3/4"	2.1/2"	1:175	–	●	○	○	●	●	7.000 – 54.000 N·m



## Working principle

### Torque - velocity

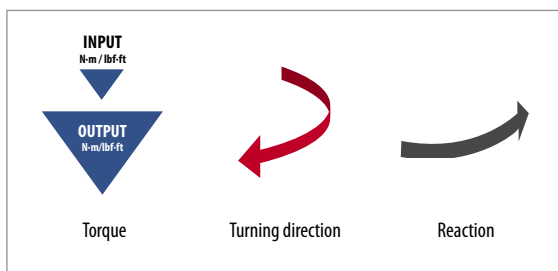
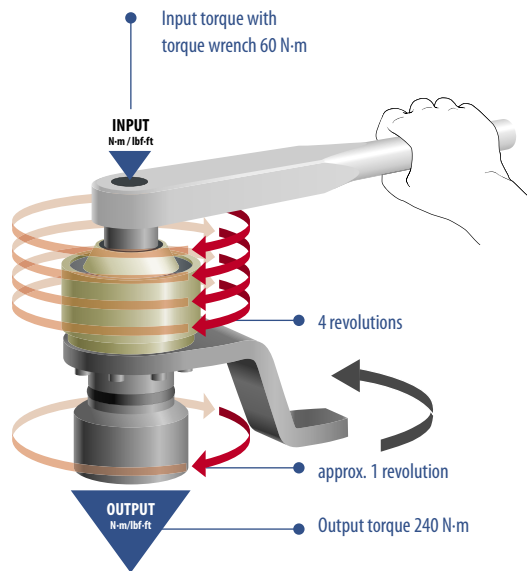
The chart representation elucidates the principle of torque multiplication. Let us assume a 60 N-m input torque and a 240 N-m output torque.

At a 1:4 ratio, 4 revolutions are needed at the input for 1 revolution with a 240 N-m torque to be obtained at the output.

This is substantiated in terms of the physical formula:

**Power = torque x revolution**

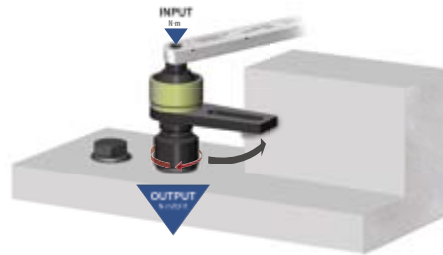
With gear efficiency deducted, the output power is to be considered as a constant equal to the input power. Thus multiplication of the torque can only be obtained from an increased number of revolutions at the input.



## Working principle

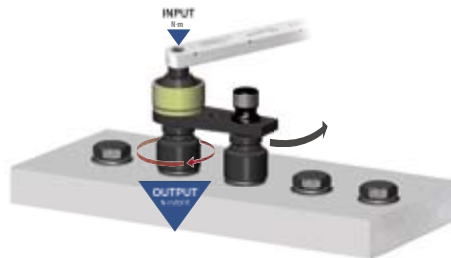
### Force and reaction

When working with a torque multiplier, torsion wind-up is built up in the gear when the screw is tightened. This stress must be reduced. A reaction absorbed by reaction arm and abutment is produced.



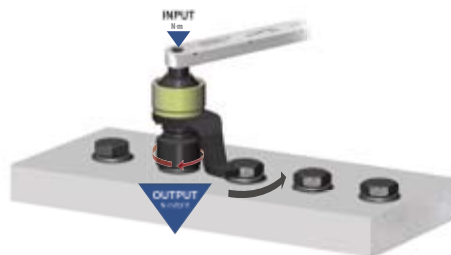
L-form reaction arm without adjustable reaction square:

The reaction acts on the wall. It is possible, but the tilting moment which arises causes the max. permitted torque to drop by 20 %.



L-form reaction arm with adjustable reaction square:

The reaction acts on the adjacent impact socket.



Reaction arm in Z-form:

The reaction acts on the adjacent screw connection

## Choosing the right reaction arm

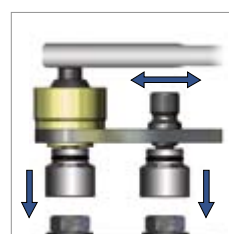
### Reaction arm Z-form



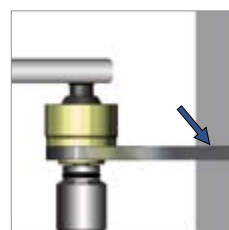
- > A flexible offset reaction arm which has proved itself as the standard solution.
- > Supporting situations are, for instance, adjoining screws, walls, machine parts and other stable abutments.
- > This reaction arm can be ideally used where conditions are quite cramped.

## Choosing the right reaction arm

### Reaction arm L-form



- > This straight reaction arm with adjustable reaction square is admirably suited for flange screw connections.
- > The L-form reaction arm has in terms of support a larger radius than the Z-Form.



The L-form is also ideal for those points above the screw-tightening level. However, the resulting tilting moment causes the max. permitted torque to drop by 20%.



## Choosing the right torque assembly tool for screws and nuts

- > It is vital that use is made of a torque wrench complete with ratchet function (integrated or separate) for torque multipliers without anti-wind-up ratchet.
- > For models with an anti-wind-up ratchet, we recommend the use of torque tools complete with ratchet function (integrated or separate) - for ease of working.



# DREMOPLUS ALU FAMILY 1

## DVV-40Z, DVV-40ZRS - DVV-540RS

Convenient: Integrated "RS" anti-wind-up ratchet for safe working. Bi-directional (apart from model DVV-40Z)

Lightweight and slim: High-performance aluminium housing is 30 % lighter than a steel one.

Low backlash, 2-stage planet gear for a long service life

Stable, shuttle-impacted gear housing

Flexible: With detachable Z-form reaction arm, can be optionally retrofitted with L-form reaction arm and adjustable reaction square

A 1", 1.1/2" or 2.1/2" output square with drill hole for impact sockets with safety pin and ring

1/2" or 3/4" input square

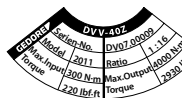
Overload safety mechanism: Non-destructive overload safety mechanism - "Slipper" - filed as a patent. Triggers overload at 10% and again clicks into place. Clockwise and anti-clockwise

A coating of the tooth flanks consisting of ceramic and teflon enables the gear to be constantly lubricated with a minimum of grease.

A Z-form forged reaction arm of chrome-vanadium steel absorbs any countering force that arises. Optional: L-form reaction arm on request

### 100% quality check

- > Delivery including factory test certificate
- > The most common INPUT/OUTPUT torques on the torque multiplier



INPUT		OUTPUT	
N-m	lbf.ft	N-m	lbf.ft
34.8	25.7	550	40
44.3	32.7	600	45
57.2	42.0	800	60
64.8	47.5	850	65
74.7	55.0	1000	75
81.6	60.0	1100	80
81.6	60.0	1200	85
84.8	62.0	1300	90
107.3	78.5	1500	110
117.8	86.0	1600	115
126.7	92.0	1700	120
138.8	101.0	2000	150
148.2	108.0	2100	155
168.2	123.0	2500	180
188.2	138.0	2800	205
208.2	153.0	3000	220
238.8	175.0	3500	255
258.8	190.0	4000	290



1:16  
4.000 N-m

1:18  
6.000 N-m

1:22  
8.000 N-m

1:28.5  
10.000 N-m

1:39  
13.000 N-m

1:175  
54.000 N-m

# DVV-40Z + DVV-40ZRS

## TORQUE MULTIPLIER DREMOPLUS ALU

4000 N·m / 2930 lbf·ft



**Particularly suitable for:**

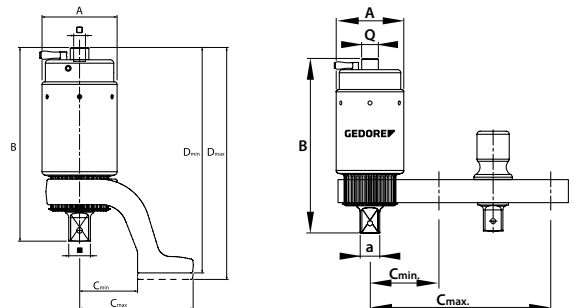
- > Machinery and plant engineering
- > Cable cars, lifts and masts
- > Heavy industry, construction sites
- > Bridge construction
- > Shipbuilding, aircraft and railway construction
- > Refineries, plastics industry
- > Power plants of all kinds

**Features:**

- > Mechanical hand torque multiplier for controlled screw tightening and unloosening screw connections
- > With a two-stage planet gear
- > High-performance aluminium housing
- > Torque multiplication ratio: 1:16
- > DVV-40ZRS model with anti-wind-up ratchet (RS)
- > With non-destructive "Slipper" overload safety mechanism for gear protection - clockwise and anticlockwise
- > Z-form, offset reaction arm depending on model made of chrome-vanadium steel
- > Can be optionally retrofitted with L-form straight reaction arm - with adjustable reaction arm - of lightweight metal
- > Guaranteed accuracy: Better than +/- 3 % tolerance
- > For operation in combination with a torque wrench
- > 2 models for a maximum load at around a max. 4000 N·m
- > Output square with drill hole for impact sockets with safety pin and ring

**Scope of delivery:**

- > Torque Multiplier DREMOPLUS ALU
- > With Z-form offset reaction arm
- > Delivery in sturdy shipping case with foam insert
- > Factory test certificate and setting table
- > Detailed technical information is available on request



max. N-m-Output	max. lbf-ft-Output	⚙️	□ " C	■ " D	A	B	C <sub>min</sub>	C <sub>max</sub>	D <sub>min</sub>	D <sub>max</sub>	max. N-m-Input	max. lbf-ft-Input	⚖️	Code	No.
4000	2930	1:16	1/2	1	88	212	71	136	250	256	300	220	5.4	2653087	DVV-40Z
4000	2930	1:16	1/2	1	88	227	71	136	264	270	310	230	5.7	2653109	DVV-40ZRS

**OPTIONAL ACCESSORIES:**

Description	A	B	C <sub>min</sub>	C <sub>max</sub>	⚖️	Code	No.
Reaction arm Z-form offset for DVV40	88	212	71	136	1.5	2653176	RZ-DVV40
Reaction arm L-form straight for DVV40, 1"	88	212	86	234	1.7	2653184	RL-DVV40



# DVV-60ZRS - DVV-130ZRS

## TORQUE MULTIPLIER DREMOPLUS ALU

6000-13000 N·m / 4400-9530 lbf·ft



**Particularly suitable for:**

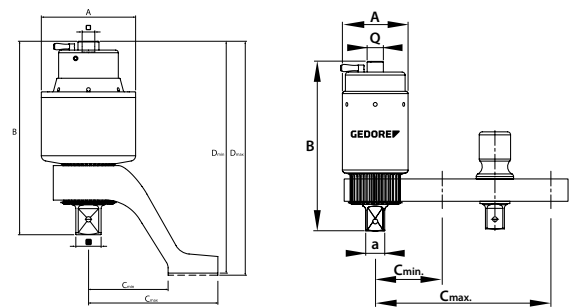
- > Machinery and plant engineering
- > Cable cars, lifts and masts
- > Heavy industry, construction sites
- > Bridge construction
- > Shipbuilding, aircraft and railway construction
- > Refineries, plastics industry
- > Power plants of all kinds

**Features:**

- > Mechanical hand torque multiplier for controlled screw tightening and unloosening screw connections
- > With a two-stage planet gear
- > High-performance aluminium housing
- > Torque multiplication ratio: 1:18, 1:22, 1:28.5, 1:39
- > All models with anti-wind-up ratchet (RS)
- > With non-destructive "Slipper" overload safety mechanism for gear protection - clockwise and anticlockwise
- > Z-form, offset reaction arm depending on model made of chrome-vanadium steel
- > Can be optionally retrofitted with L-form straight reaction arm - with adjustable reaction arm - of lightweight metal
- > Guaranteed accuracy: Better than +/- 3 % tolerance
- > For operation in combination with a torque wrench
- > 4 models for maximum load in the range between max. 6000 N-m and max. 13000 N-m
- > Output square with drill hole for impact sockets with safety pin and ring

**Scope of delivery:**

- > Torque Multiplier DREMOPLUS ALU
- > With Z-form offset reaction arm
- > Delivery in sturdy shipping case with foam insert
- > Factory test certificate and setting table
- > Detailed technical information is available on request



max. N-m-Output	max. lbf-ft-Output	•:•	□ " C	■ " D	A	B	C <sub>min</sub>	C <sub>max</sub>	D <sub>min</sub>	D <sub>max</sub>	max. N-m-Input	max. lbf-ft-Input	kg	Code	No.
6000	4400	1:18	3/4	1.1/2	102	257	110	190	316	324	400	300	10.5	2653117	DVV-60ZRS
8000	5870	1:22	3/4	1.1/2	128	277	110	190	338	342	420	310	13.4	2653125	DVV-80ZRS
10000	7330	1:28,5	3/4	1.1/2	142	292	120	216	350	356	410	305	13.9	2653133	DVV-100ZRS
13000	9530	1:39	3/4	1.1/2	175	306	(126)	(229)	(372)	(379)	380	280	20.9	2653141	DVV-130ZRS

**OPTIONAL ACCESSORIES:**

Description	A	B	C <sub>min</sub>	C <sub>max</sub>	kg	Code	No.
Reaction arm Z-form offset for DVV60	102	257	110	190	3.9	2653192	RZ-DVV60
Reaction arm Z-form offset for DVV80	128	277	110	190	4.3	2653206	RZ-DVV80
Reaction arm Z-form offset for DVV100	142	242	120	216	3.0	2653222	RZ-DVV100
Reaction arm Z-form offset for DVV130	175	306	126	229	3.9	2653230	RZ-DVV130
Reaction arm L-form straight for DVV60-80, 1.1/2"	102/128	256,2/276,5	120/120	315/315	4.0	2654091	RL-DVV60-80



# DVV-540RS

## TORQUE MULTIPLIER DREMOPLUS ALU

54000 N·m / 40330 lbf·ft

**Particularly suitable for:**

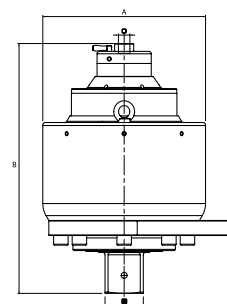
- > Heavy industry
- > Oil industry
- > Petrochemicals

**Features:**

- > Mechanical hand torque multiplier for controlled screw tightening and unloosening screw connections
- > With a three-stage planet gear
- > High-performance aluminium housing
- > Chrome-vanadium steel reaction arm
- > Multiplication at the ratio of 1:175
- > With anti-wind-up ratchet (RS)
- > With non-destructive "Slipper" overload safety mechanism for gear protection - clockwise and anticlockwise
- > With fixture for welding on a reaction arm (optional)
- > Guaranteed accuracy: Better than +/- 3 % tolerance
- > For operation in combination with a torque wrench
- > 1 model for a maximum load of around a max. 54000 N·m
- > Output square with drill hole for impact sockets with safety pin and ring

**Scope of delivery:**

- > Torque Multiplier DREMOPLUS ALU
- > Delivery in a sturdy crate on pallet
- > Setting table
- > Detailed technical information is available on request



max. N·m-Output	max. lbf-ft-Output		" C	" D	A	B	max. N·m-Input	max. lbf-ft-Input	kg	Code	No.
54000	40330	1:175	3/4	2.1/2	270	415	380	280	64.6	2653168	DVV-540RS



**SPECIAL REACTION ARMS CAN BE OBTAINED ON REQUEST INCLUDING TECHNICAL ADVICE.**

- > Just turn to us - We would be glad to tender any advice.
- > Any problems you have represent our assignments!



# DREMOPLUS ALU FAMILY 2

## DVI-20L/Z AND DVI-28L/Z



**DVI-20Z and DVI-28Z**

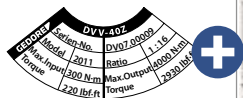
- > Reaction arm Z-form offset
- > fix integrated

**DVI-20L and DVI-28L**

- > Reaction arm L-form with adjustable reaction square drive
- > fix integrated

### 100% quality check

- > Delivery including factory test certificate
- > The most common INPUT/OUTPUT torques on the torque multiplier



INPUT		OUTPUT	
N <sub>1</sub> (in)	L <sub>1</sub> (ft)	N <sub>2</sub> (in)	L <sub>2</sub> (ft)
34.8	8.2	800	40
46.3	10.2	800	70
57.2	13.8	800	100
64.8	15.3	800	200
74.7	18.3	1000	300
81.8	19.8	1100	300
81.8	19.8	1200	400
86.8	19.8	1300	500
107.8	19.8	1500	600
117.8	14.8	1600	700
128.8	14.8	1700	700
138.8	17.1	2000	800
148.7	18.0	2100	800
158.2	18.0	2200	800
168.8	20.0	2300	820
188.8	21.8	2400	850
198.8	20.0	2500	820
218.8	21.8	4000	850



1:4  
2.000 N-M



1:4  
2.000 N-M



1:5,5  
2.000 N-M



1:5,5  
2.000 N-M

# DVI-20L/Z + DVI-28L/Z

## TORQUE MULTIPLIER DREMOPLUS ALU

2000-2800 N·m / 1500-2050 lbf·ft



**Particularly suitable for:**

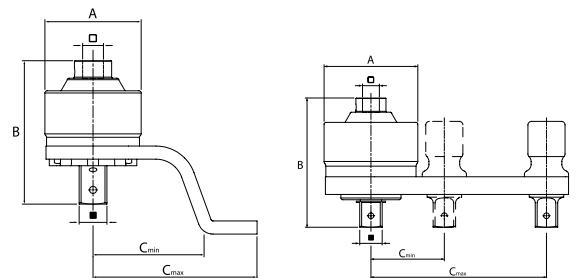
- > Industry, construction sites, car and truck garages, agricultural technology, construction machinery
- > Bridge, aircraft and railway construction, shipbuilding, refineries
- > Machinery and plant engineering, maintenance

**Features:**

- > Mechanical hand torque multiplier for controlled screw tightening and unloosening screw connections
- > With a single-stage planet gear
- > High-performance aluminium housing
- > Multiplication at the ratio of 1:4, 1:5.5
- > Guaranteed accuracy: Better than +/- 3 % tolerance
- > For operation in combination with a torque wrench
- > 2 models for maximum load in the range between max. 2000 N-m and 2800 N-m
- > Z model: with Z-form, offset reaction arm of chrome-vanadium steel
- > L model: with L-form straight reaction arm - with adjustable reaction square - of lightweight metal
- > Output square with drill hole for impact sockets with safety pin and ring

**Scope of delivery:**

- > Torque Multiplier DREMOPLUS ALU
- > With firmly integrated reaction arm of an Z- or L-form depending on model
- > Delivery in sturdy shipping case with foam insert
- > Factory test certificate and setting table
- > Detailed technical information is available on request



max. N-m-Output	max. lbf-ft-Output	Reaction arm	•••	□" C	■" D	A	B	C <sub>min</sub>	C <sub>max</sub>	max. N-m-Input	max. lbf-ft-Input	kg	Code	No.
2000	1500	offset	1:4	3/4	1	88	131	100	150	580	430	2.9	2653265	DVI-20Z
2800	2050	offset	1:5,5	3/4	1	106	146	100	150	550	410	3.9	2653273	DVI-28Z
2000	1500	straight	1:4	3/4	1	88	131	73	152	580	430	3.0	2653249	DVI-20L
2800	2050	straight	1:5,5	3/4	1	106	146	83	199	550	410	4.1	2653257	DVI-28L

**OPTIONAL ACCESSORIES:**

Description	kg	Code	No.
Reaction arm Z-form offset for DVI20	1.100	2653281	RZ-DVI20
Reaction arm L-form straight for DVI20, 1"	1.200	2653303	RL-DVI20
Spare square 1" for DVI20	0.300	2653346	E-VKT-DVI20
Reaction arm Z-form offset for DVI28	1.500	2653311	RZ-DVI28
Reaction arm L-form straight for DVI28, 1"	1.700	2653338	RL-DVI28
Spare square 1" incl. ring for DVI28	0.500	2670526	E-VKR-DVI28



# DREMOPLUS ALU FAMILY 3

## DVV-13Z



### 100% quality check

- > Delivery including factory test certificate
- > The most common INPUT/OUTPUT torques on the torque multiplier

INPUT		OUTPUT	
IN (ft. lb.)	IN (N.m)	OUT (ft. lb.)	OUT (N.m)
33.8	45.9	5400	736
48.3	65.7	8000	1088
62.8	85.5	8600	1440
77.3	105.3	10000	2000
91.8	125.1	11000	2600
106.3	144.9	12000	3200
120.8	164.7	13000	3800
135.3	184.5	14000	4400
149.8	204.3	15000	5000
164.3	224.1	16000	5600
178.8	243.9	17000	6200
193.3	263.7	18000	6800
207.8	283.5	19000	7400
222.3	303.3	20000	8000
236.8	323.1	21000	8600
251.3	342.9	22000	9200
265.8	362.7	23000	9800
280.3	382.5	24000	10400
294.8	402.3	25000	11000
309.3	422.1	26000	11600

### The GEDORE maintenance service

#### One promoting service life and safety

- > Regular maintenance can considerably lengthen the service life of your GEDORE torque multiplier and also contribute to your safety.
- > Maintenance involves our qualified personnel examining the individual components, testing their functional precision and verifying the factory certificate.
- > In such an instance, we would willingly draft an estimate for you.
- > We will, of course, continue to support you should you have any questions on and problems with the former DREMOPLUS models - **just get in touch with us!**
- > Should a guarantee case arise - then either hand in the appliance to your dealer - who will concern himself with what is then to follow - or send it directly for repairs to the Lösomat manufacturer or the nearest GEDORE agency.

# DVV-13Z

## TORQUE MULTIPLIER DREMOPLUS ALU

1300 N·m / 950 lbf·ft



**Particularly suitable for:**

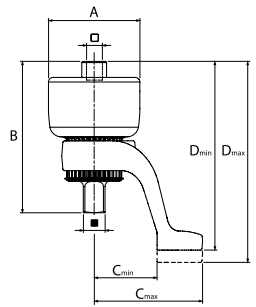
- > Industry, construction sites, car and truck garages, agricultural technology
- > Bridge, aircraft and railway construction, shipbuilding, refineries
- > Machinery and plant engineering, maintenance

**Features:**

- > Mechanical hand torque multiplier for controlled screw tightening and unloosening screw connections
- > With a single-stage planet gear
- > High-performance aluminium housing
- > With Z-form offset reaction arm of chrome-vanadium steel
- > Can be optionally retrofitted with L-form straight reaction arm - with adjustable reaction arm - of lightweight metal
- > Multiplication at the ratio of 1:5
- > Guaranteed accuracy: Better than +/- 3 % tolerance
- > For operation in combination with a torque wrench
- > 1 model for a maximum load of around a max. 1300 N-m
- > Also available as set (No. DVV-13ZG) with three different impact sockets - sizes 27, 30, 32 mm
- > Output square with drill hole for impact sockets with safety pin and ring

**Scope of delivery:**

- > Torque Multiplier DREMOPLUS ALU
- > With Z-form offset reaction arm
- > Delivery in sturdy shipping case with foam insert
- > Factory test certificate and setting table
- > Detailed technical information is available on request



**DVV-13Z**

max. N-m-Output	max. lbf-ft-Output	•:•	" C	" D	A	B	C <sub>min</sub>	C <sub>max</sub>	D <sub>min</sub>	D <sub>max</sub>	max. N-m-Input	max. lbf-ft-Input	kg	Code	No.
1300	950	1:5	1/2	3/4	80	133	56	95	165	173	270	200	1.9	2653370	DVV-13Z

**DVV-13ZG**

Contents	max. N-m-Output	max. lbf-ft-Output	•:•	" C	" D	A	B	C <sub>min</sub>	C <sub>max</sub>	D <sub>min</sub>	D <sub>max</sub>	max. N-m-Input	max. lbf-ft-Input	kg	Code	No.
DVV-13Z K 32 27 K 32 30 K 32 32	1300	950	1:5	1/2	3/4	80	133	56	95	165	173	270	200	3.0	2653389	DVV-13ZG

**OPTIONAL ACCESSORIES**

Description	A	B	C <sub>min</sub>	C <sub>max</sub>	kg	Code	No.
Reaction arm L-form straight for DVV-13, 3/4"	80	133	60	159	0.800	2653400	RL-DVV13
Reaction arm Z-form offset for DVV-13	80	133	56	95	0.600	2653397	RZ-DVV13
Sun gear for DVV-13					0.090	2684233	E-S-DVV13



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# SCREWDRIVERS

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## 3C-SCREWDRIVER

> 345



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## 3C-SCREWDRIVER WITH STRIKING CAP

> 350



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## SCREWDRIVER WITH WOODEN HANDLE

> 351



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## ELECTRONIC SCREWDRIVER

> 352



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## T-HANDLES

> 354



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## HEXAGON ALLEN KEYS

> 357



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## VARIOUS

> 363



# GEDORE SCREWDRIVERS

powerful, unerring, absolute precision, wear-resistant

- > The torque required by the German Standards Institute (DIN/ISO) is exceeded considerably
- > The ideal all-rounder for screws in wood, plastic and metal



**+** **Striking cap**  
Seized screws are loosened by gently knocking on the striking cap. Full-length blade transfers the full 100% impact force onto the blade tip.



**+** **Infoprint**  
Head marking for specifically and rapidly accessing the right screwdriver



**+** **Useful hanging hole**



**+** **Ergonomic handle design**

- > Ergonomic grip design for optimum power transfer
- > Maximum force involving minimum effort
- > Extensive contact surface with the hand
- > Ergonomically appropriately placed hard and soft elements give the grip its GEDORE typical kind-to-hands feel
- > Suitable for small hands, large hands and for both right and left-handers



**+** **3-component handle**

- > Soft fast turning zone with hard power point - gets the power there quickly
- > Power point also ensures that the forefinger reliably guides the blade
- > The hard core is inside the grip. It takes up the force from the external components and easily transfers it to the shaft. The hard core can be seen at the head marking



**+** **Hexagon blade with additional hexagon bolster**



**+** **Tempered blade**

- > Blade from GEDORE molybdenum-vanadium-Plus tempered steel for hardness, elasticity and resistance to wear
- > Blade fully tempered for a long service life
- > Blade injected as a positive fit into the plastic core and matt chrome-plated

**+** **Precision-made blade tip**  
Ensures optimum power transfer onto the screw head





## 3C-SCREWDRIVER

### 2150 3C-SCREWDRIVER

for slotted head screws

- > Acc. to DIN ISO 2380-2, blade tip acc. to DIN ISO 2380-1 Form A
  - > 3-component handles Power-Grip<sup>3</sup> with hanging hole
  - > Ergonomic handle design enables precise and fatigue-free working
  - > Positive-fit joint of handle and blade for optimum transmission of force
  - > Type of drive marked at end of the handle
  - > Blade from GEDORE molybdenum-vanadium-Plus tempered steel
- \* Length not standardised



mm	mm	mm	*	mm	Ø	kg	Code	No.
3.0	0.5	80	*	165	3,0	0.039	6679270	2150 3
3.5	0.6	75		160	3,5	0.055	2822644	2150 3,5
4.0	0.8	100		185	4,0	0.061	6679350	2150 4
4.5	0.8	90	*	190	4,0	0.100	2822652	2150 4,5
5.5	1.0	100		200	5,0	0.093	6679430	2150 5,5
6.5	1.2	150		260	6,0	0.128	6679510	2150 6,5
8.0	1.2	150		270	7,0	0.170	6679780	2150 8
8.0	1.6	175		295	7,0	0.222	2822660	2150 8-175
10.0	1.6	200		320	8,0	0.203	6679860	2150 10
10.0	1.6	300	*	420	8,0	0.222	2822679	2150 10-300
12.0	2.0	200		320	9,0	0.257	6679940	2150 12
12.0	2.0	250		370	9,0	0.222	2822687	2150 12-250

VDE 2170

>575



### 2153 3C-SCREWDRIVER

for slotted head screws, stubby

- > Acc. to DIN ISO 2380-2A, blade tip acc. to DIN ISO 2380-1 Form B
- > For confined spaces
- > 3-component handles Power-Grip<sup>3</sup> with hanging hole
- > Ergonomic handle design enables precise and fatigue-free working
- > Positive-fit joint of handle and blade for optimum transmission of force
- > Type of drive marked at end of the handle
- > Blade from GEDORE molybdenum-vanadium-Plus tempered steel



mm	mm	mm		mm	Ø	kg	Code	No.
4.0	0.8	25		81		0.031	1531174	2153 4
5.5	1.0	25		81		0.036	1482432	2153 5,5
6.5	1.2	25		81		0.039	1531182	2153 6,5
8.0	1.2	25		81		0.044	1531190	2153 8

### 2150 3C-SCREWDRIVER

for slotted head screws, special lengths

- > Acc. to DIN ISO 2380-2, blade tip acc. to DIN ISO 2380-1 Form B
  - > 3-component handles Power-Grip<sup>3</sup> with hanging hole
  - > Ergonomic handle design enables precise and fatigue-free working
  - > Positive-fit joint of handle and blade for optimum transmission of force
  - > Type of drive marked at end of the handle
  - > Blade from GEDORE molybdenum-vanadium-Plus tempered steel
- \* Length not standardised



mm	mm	mm	*	mm	Ø	kg	Code	No.
2.0	0.4	60	*	145	2,0	0.055	2822695	2150 2-60
2.5	0.4	75		160	2,5	0.055	2822709	2150 2,5-75
3.0	0.5	150	*	235	3,0	0.044	6680280	2150 3-150
3.0	0.5	200	*	285	3,0	0.055	2822717	2150 3-200
3.5	0.6	100		185	3,5	0.055	2822725	2150 3,5-100
3.5	0.6	125		210	3,5	0.055	2822733	2150 3,5-125
3.5	0.6	200	*	285	3,5	0.055	2822741	2150 3,5-200
4.0	0.8	150	*	235	4,0	0.069	6680360	2150 4-150
4.0	0.8	200	*	285	4,0	0.055	2822768	2150 4-200
4.0	0.8	300	*	385	4,0	0.055	2822776	2150 4-300
5.5	1.0	125		225	5,5	0.100	2822784	2150 5,5-125
5.5	1.0	150		250	5,5	0.104	6680520	2150 5,5-150
5.5	1.0	200	*	300	5,5	0.100	2822792	2150 5,5-200
5.5	1.0	300	*	400	5,5	0.100	2822806	2150 5,5-300
6.0	1.2	100	*	210	6,0	0.140	2822814	2150 6-100
6.5	1.2	200	*	310	6,0	0.152	6680870	2150 6,5-200

### 2160 PH 3C-SCREWDRIVER

for cross-head screws PH

- > Acc. to DIN ISO 8764, tip acc. to DIN ISO 8764-1 PH
  - > 3-component handles Power-Grip<sup>3</sup> with hanging hole
  - > Ergonomic handle design enables precise and fatigue-free working
  - > Positive-fit joint of handle and blade for optimum transmission of force
  - > Type of drive marked at end of the handle
  - > Size 3 and 4 blade with hexagon bolster
  - > Blade from GEDORE molybdenum-vanadium-Plus tempered steel
- \* not standardised



PH	M	mm	*	mm	kg	Code	No.
0	M1,6 - M2	60		145	0.302	6683110	2160 PH 0
0	M1,6 - M2	100	*	185	0.055	2824043	2160 PH 0-100
1	M2 - M3	80		180	0.080	6683380	2160 PH 1
1	M2 - M3	100	*	200	0.100	2824051	2160 PH 1-100
1	M2 - M3	200		300	0.166	6683700	2160 PH 1-200
2	M3,5 - M5	100		210	0.119	6683460	2160 PH 2
2	M3,5 - M5	150	*	260	0.140	2824078	2160 PH 2-150
2	M3,5 - M5	200		310	0.164	6683890	2160 PH 2-200
3	M5,5 - M7	150		270	0.192	6683540	2160 PH 3
4	M8 - M10	200		320	0.274	6683620	2160 PH 4

## 2161 PH 3C-SCREWDRIVER

for cross-head screws PH, stubby

- > Acc. to DIN ISO 8764, tip acc. to DIN ISO 8764-1 PH
- > For confined spaces
- > 3-component handles Power-Grip<sup>3</sup> with hanging hole
- > Ergonomic handle design enables precise and fatigue-free working
- > Positive-fit joint of handle and blade for optimum transmission of force
- > Type of drive marked at end of the handle
- > Blade from GEDORE molybdenum-vanadium-Plus tempered steel



PH	M	mm	mm	kg	Code	No.
1	M2 - M3	25	81	0.033	1482440	2161 PH 1
2	M3,5 - M5	25	81	0.036	1531204	2161 PH 2

## 2161 PZ 3C-SCREWDRIVER

for cross-head screws Pozi PZ, stubby

- > Acc. to DIN ISO 8764, tip acc. to DIN ISO 8764-1 PZ
- > For confined spaces
- > 3-component handles Power-Grip<sup>3</sup> with hanging hole
- > Ergonomic handle design enables precise and fatigue-free working
- > Positive-fit joint of handle and blade for optimum transmission of force
- > Type of drive marked at end of the handle
- > Blade from GEDORE molybdenum-vanadium-Plus tempered steel



PZ	M	mm	mm	kg	Code	No.
1	M2 - M3	25	81	0.032	1550608	2161 PZ 1
2	M3,5 - M5	25	81	0.037	1550616	2161 PZ 2

## 2163 K 3C-SCREWDRIVER

for in-hex screws, with ball end

- > 3-component handles Power-Grip<sup>3</sup> with hanging hole
- > Ergonomic handle design enables precise and fatigue-free working
- > Positive-fit joint of handle and blade for optimum transmission of force
- > Type of drive marked at end of the handle
- > Working angle approx. 25° in each direction
- > Blade from GEDORE molybdenum-vanadium-Plus tempered steel



mm	mm	mm	kg	Code	No.
2	100	185	0.040	1828746	2163 K 2
3	100	185	0.045	6684430	2163 K 3
4	100	185	0.068	6684510	2163 K 4
5	100	200	0.100	6684780	2163 K 5
6	125	235	0.139	6684860	2163 K 6
8	150	270	0.230	6684940	2163 K 8
10	150	270	0.285	6685080	2163 K 10
12	150	270	0.369	6685160	2163 K 12

## 2160 PZ 3C-SCREWDRIVER

for cross-head screws Pozi PZ

- > Acc. to DIN ISO 8764, tip acc. to DIN ISO 8764-1 PZ
- > 3-component handles Power-Grip<sup>3</sup> with hanging hole
- > Ergonomic handle design enables precise and fatigue-free working
- > Positive-fit joint of handle and blade for optimum transmission of force
- > Type of drive marked at end of the handle
- > Size 3 and 4 blade with hexagon bolster
- > Blade from GEDORE molybdenum-vanadium-Plus tempered steel

\* not standardised

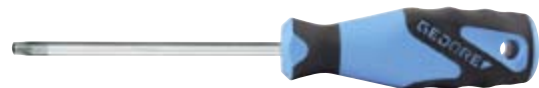


PZ	M	mm	mm	kg	Code	No.
0	M1,6 - M2	60	145	0.038	6683970	2160 PZ 0
1	M2 - M3	80	180	0.079	6684000	2160 PZ 1
1	M2 - M3	300	* 400	0.100	2824086	2160 PZ 1-300
2	M3,5 - M5	100	210	0.119	6684190	2160 PZ 2
2	M3,5 - M5	300	* 410	0.140	2824094	2160 PZ 2-300
3	M5,5 - M7	150	270	0.189	6684270	2160 PZ 3
4	M8 - M10	200	320	0.273	6684350	2160 PZ 4

## 2163 TX 3C-SCREWDRIVER

for recessed TORX<sup>®</sup> head screws

- > 3-component handles Power-Grip<sup>3</sup> with hanging hole
- > Ergonomic handle design enables precise and fatigue-free working
- > Positive-fit joint of handle and blade for optimum transmission of force
- > Type of drive marked at end of the handle
- > Blade from GEDORE molybdenum-vanadium-Plus tempered steel
- > TORX<sup>®</sup> = reg. trademark of Acument Intellectual Properties, LLC. USA



	M	mm	mm	mm	kg	Code	No.
T5	M1,8	1,42	60	145	0.037	1616471	2163 TX T5
T6	M2	1,69	60	145	0.029	6685400	2163 TX T6
T7	M2,5	1,99	60	145	0.038	6685590	2163 TX T7
T8	M2,5	2,31	60	145	0.038	6685670	2163 TX T8
T9	M3	2,50	60	145	0.038	6685750	2163 TX T9
T10	M3 - M3,5	2,74	80	165	0.039	6685830	2163 TX T10
T15	M3,5 - M4	3,27	80	165	0.054	6685910	2163 TX T15
T20	M4 - M5	3,86	100	185	0.060	6686050	2163 TX T20
T25	M4,5 - M5	4,43	100	200	0.082	6686130	2163 TX T25
T27	M4,5 - M6	4,99	115	215	0.098	6686210	2163 TX T27
T30	M6 - M7	5,52	115	225	0.123	6686480	2163 TX T30
T40	M7 - M8	6,65	130	240	0.144	6686560	2163 TX T40
T45	M8 - M10	7,82	130	250	0.176	6686640	2163 TX T45

## 2163 KTX 3C-SCREWDRIVER

for recessed TORX® screws, with ball end

- > 3-component handles Power-Grip<sup>3</sup> with hanging hole
- > Ergonomic handle design enables precise and fatigue-free working
- > Positive-fit joint of handle and blade for optimum transmission of force
- > Type of drive marked at end of the handle
- > Working angle approx. 25° in each direction
- > Blade from GEDORE molybdenum-vanadium-Plus tempered steel
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

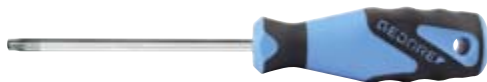


⊕	M	mm	mm	mm	kg	Code	No.
T10	M3 - M3,5	2,74	80	165	0.055	2824213	2163 KTX T10
T15	M3,5 - M4	3,27	80	165	0.055	2824221	2163 KTX T15
T20	M4 - M5	3,86	100	185	0.055	2824248	2163 KTX T20
T25	M4,5 - M5	4,43	100	200	0.100	2824256	2163 KTX T25
T27	M4,5 - M6	4,99	115	215	0.100	2824264	2163 KTX T27
T30	M6 - M7	5,52	115	225	0.140	2824272	2163 KTX T30
T40	M7 - M8	6,65	130	240	0.140	2824280	2163 KTX T40

## 2163 TXIP 3C-SCREWDRIVER

for recessed TORX PLUS® head screws

- > 3-component handles Power-Grip<sup>3</sup> with hanging hole
- > Ergonomic handle design enables precise and fatigue-free working
- > Positive-fit joint of handle and blade for optimum transmission of force
- > Type of drive marked at end of the handle
- > Blade from GEDORE molybdenum-vanadium-Plus tempered steel
- > TORX PLUS® = reg. trademark of Acument Intellectual Properties, LLC. USA



⊕	M	mm	mm	mm	kg	Code	No.
6IP	M2	2,31	60	145	0.055	2824299	2163 TX 6IP
7IP	-	-	60	145	0.055	2824302	2163 TX 7IP
8IP	M2,5 - M3	2,50	60	145	0.055	2824310	2163 TX 8IP
9IP	-	-	60	145	0.055	2824329	2163 TX 9IP
10IP	M3 - M3,5	2,74	80	165	0.055	2824337	2163 TX 10IP
15IP	M3,5 - M4	3,27	80	165	0.055	2824345	2163 TX 15IP
20IP	M4 - M5	3,86	100	185	0.055	2824353	2163 TX 20IP
25IP	M4,5 - M5	4,43	100	200	0.100	2824361	2163 TX 25IP
27IP	M5 - M6	4,99	115	215	0.100	2824388	2163 TX 27IP
30IP	M6	5,52	115	225	0.140	2824396	2163 TX 30IP
40IP	M7 - M8	6,65	130	240	0.140	2824418	2163 TX 40IP

VDE 2133

> 572



## 2163 TXB 3C-SCREWDRIVER

for recessed TORX® head screws with pilot

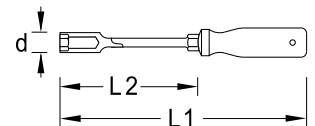
- > 3-component handles Power-Grip<sup>3</sup> with hanging hole
- > Ergonomic handle design enables precise and fatigue-free working
- > Positive-fit joint of handle and blade for optimum transmission of force
- > Type of drive marked at end of the handle
- > Blade from GEDORE molybdenum-vanadium-Plus tempered steel
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



⊕	M	mm	mm	mm	kg	Code	No.
T7	M2,5	1,99	60	145	0.034	6677570	2163 TXB T7
T8	M2,5	2,31	60	145	0.038	6677650	2163 TXB T8
T9	M3	2,50	60	145	0.038	6677730	2163 TXB T9
T10	M3 - M3,5	2,74	80	165	0.039	6677810	2163 TXB T10
T10	M3 - M3,5	2,74	300	385	0.055	2824159	2163 TXB T10-300
T15	M3,5 - M4	3,27	80	165	0.054	6678030	2163 TXB T15
T15	M3,5 - M4	3,27	300	385	0.055	2824167	2163 TXB T15-300
T20	M4 - M5	3,86	100	185	0.060	6678110	2163 TXB T20
T20	M4 - M5	3,86	300	385	0.055	2824175	2163 TXB T20-300
T25	M4,5 - M5	4,43	100	200	0.082	6678380	2163 TXB T25
T27	M4,5 - M6	4,99	115	215	0.098	6678460	2163 TXB T27
T30	M6 - M7	5,52	115	225	0.123	6678540	2163 TXB T30
T40	M7 - M8	6,65	130	240	0.143	6678620	2163 TXB T40

## 2133 NUT DRIVER WITH 3C-HANDLE

- > Acc. to DIN 3125, ISO 2725-1
- > 3-component handles Power-Grip<sup>3</sup> with hanging hole
- > Ergonomic handle design enables precise and fatigue-free working
- > Positive-fit joint of handle and blade for optimum transmission of force
- > Head depth 25 mm, blade length 125 mm
- > 10 mm and larger with hexagon bolster
- > Blade from GEDORE molybdenum-vanadium-Plus steel



mm	L <sub>1</sub>	L <sub>2</sub>	d	Ø	mm	kg	Code	No.
5.0	225	125	8,0	5	-	0.097	1746723	2133 5
5.5	225	125	8,0	5	-	0.107	1746731	2133 5,5
6.0	225	125	9,0	5	-	0.109	1746758	2133 6
7.0	235	125	11,0	6	-	0.135	1746766	2133 7
8.0	235	125	12,0	6	-	0.152	1746855	2133 8
9.0	235	125	13,0	6	-	0.168	1746863	2133 9
10.0	245	125	14,0	6	10	0.198	1746898	2133 10
11.0	245	125	16,0	8	13	0.202	1746901	2133 11
12.0	245	125	17,0	8	13	0.221	1746928	2133 12
13.0	245	125	18,0	8	13	0.225	1746944	2133 13



## 3C-SCREWDRIVER SETS


## 2150-2160 PH 3C-SCREWDRIVER SET

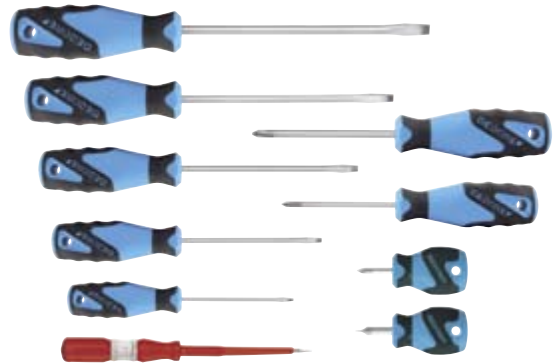
6 pieces / 10 pieces

- > Practical set composition in environmentally-friendly cardboard box
- > For slotted and cross-head screws PH
- > 3-component handles Power-Grip<sup>3</sup> with hanging hole
- > Ergonomic handle design enables precise and fatigue-free working
- > Positive-fit joint of handle and blade for optimum transmission of force
- > Type of drive marked at end of the handle
- > Blade from GEDORE molybdenum-vanadium-Plus tempered steel




2150-2160 PH-06

Contents		Code	No.
⊖ 2150 4 5,5 6,5 8	0.660	1482319	2150-2160 PH-06
⊕ 2160 PH 1 2			



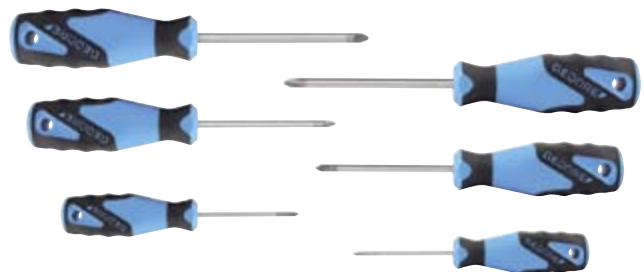
2150-2160 PH-010


Contents		Code	No.
⊖ 2150 3 4 5,5 6,5 8	0.825	1482343	2150-2160 PH-010
⊖ 2153 5,5			
⊕ 2160 PH 1 2			
⊕ 2161 PH 1			
⊖ 4615 3,5			

## 2160 PHZ-06 3C-SCREWDRIVER SET

6 pieces

- > Practical set composition in environmentally-friendly cardboard box
- > For cross-head screws PH and Pozi PZ
- > 3-component handles Power-Grip<sup>3</sup> with hanging hole
- > Ergonomic handle design enables precise and fatigue-free working
- > Positive-fit joint of handle and blade for optimum transmission of force
- > Type of drive marked at end of the handle
- > Blade from GEDORE molybdenum-vanadium-Plus tempered steel



Contents		Code	No.
⊕ 2160 PH 0 1 2	0.344	2003589	2160 PHZ-06
⊕ 2160 PZ 0 1 2			

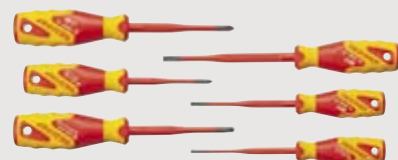
VDE 2170-2160 PH-077

&gt;579



VDE 2162-2172 PM-06

&gt;577




## 2150-2160 PZ-06 3C-SCREWDRIVER SET

6 pieces

- > Practical set composition in environmentally-friendly cardboard box
- > For slotted and cross-head screws Pozi PZ
- > 3-component handles Power-Grip<sup>3</sup> with hanging hole
- > Ergonomic handle design enables precise and fatigue-free working
- > Positive-fit joint of handle and blade for optimum transmission of force
- > Type of drive marked at end of the handle
- > Blade from GEDORE molybdenum-vanadium-Plus tempered steel

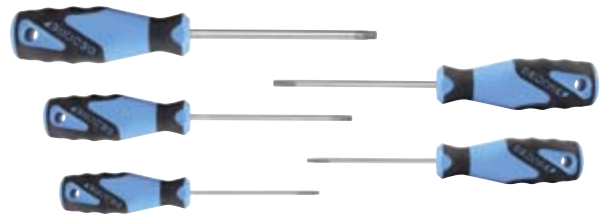



Contents		Code	No.
⊖ 2150 4 5,5 6,5 8	0.670	1482300	2150-2160 PZ-06
⊕ 2160 PZ 1 2			

## 2163 TXB-05 3C-SCREWDRIVER SET

5 pieces

- > Practical set composition in environmentally-friendly cardboard box
- > For recessed TORX<sup>®</sup> head screws with pilot
- > 3-component handles Power-Grip<sup>3</sup> with hanging hole
- > Ergonomic handle design enables precise and fatigue-free working
- > Positive-fit joint of handle and blade for optimum transmission of force
- > Type of drive marked at end of the handle
- > Blade from GEDORE molybdenum-vanadium-Plus tempered steel
- > TORX<sup>®</sup> = reg. trademark of Acument Intellectual Properties, LLC. USA

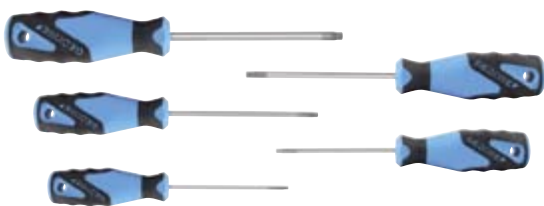


Contents		Code	No.
⊕ 2163 TXB T10 T15 T20 T25 T30	0.440	1616617	2163 TXB-05

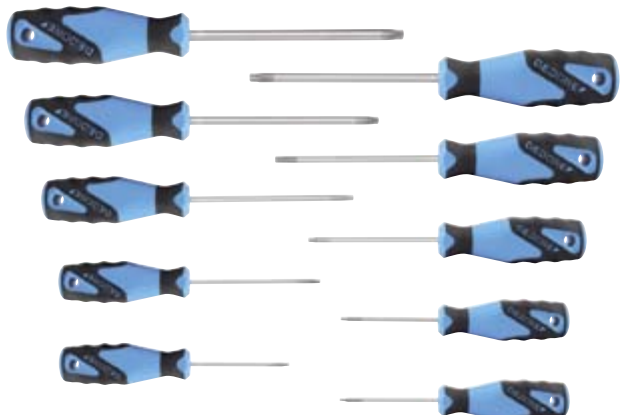
## 2163 TX 3C-SCREWDRIVER SET

5 pieces / 10 pieces


- > Practical set composition in environmentally-friendly cardboard box
- > For recessed TORX<sup>®</sup> head screws
- > 3-component handles Power-Grip<sup>3</sup> with hanging hole
- > Ergonomic handle design enables precise and fatigue-free working
- > Positive-fit joint of handle and blade for optimum transmission of force
- > Type of drive marked at end of the handle
- > Blade from GEDORE molybdenum-vanadium-Plus tempered steel
- > TORX<sup>®</sup> = reg. trademark of Acument Intellectual Properties, LLC. USA




2163 TX-05



2163 TX-010

Contents		Code	No.
⊕ 2163 BTX T10 T15 T20 T25 T30	0.435	1482327	2163 TX-05

Contents		Code	No.
⊕ 2163 BTX T7 T8 T9 T10 T15 T20 T25 T27 T30 T40	0.740	1482335	2163 TX-010



## 3C-SCREWDRIVER WITH STRIKING CAP

### 2154SK 3C-SCREWDRIVER WITH STRIKING CAP

for slotted head screws

- > Acc. to DIN ISO 2380-2, blade tip acc. to DIN ISO 2380-1 Form A
  - > 3-component handles Power-Grip<sup>3</sup> with striking cap
  - > Ergonomic handle design enables precise and fatigue-free working
  - > Positive-fit joint of handle and blade for optimum transmission of force
  - > Hexagon blade with additional hexagon bolster
  - > Blade from GEDORE molybdenum-vanadium-Plus tempered steel
- \* Length not standardised



⊖ mm	mm	mm	mm	mm	kg	Code	No.
3.5	0.6	75	180	8	0.086	1845209	2154SK 3,5
4.5	0.8	75	* 180	8	0.090	1845217	2154SK 4,5
5.5	1.0	100	205	8	0.092	1845225	2154SK 5,5
6.5	1.2	125	230	10	0.154	1845233	2154SK 6,5
6.5	1.2	150	255	10	0.229	2824108	2154SK 6,5-150
7.0	1.2	125	230	10	0.229	2824116	2154SK 7
8.0	1.2	150	270	13	0.178	1845241	2154SK 8
8.0	1.6	175	295	13	0.229	2824124	2154SK 8-175
10.0	1.6	200	320	13	0.214	1845268	2154SK 10
10.0	1.6	300	420	13	0.229	2824132	2154SK 10-300
12.0	2.0	200	320	16	0.260	1845276	2154SK 12
12.0	2.0	250	370	16	0.229	2824140	2154SK 12-250
14.0	2.5	250	370	16	0.324	1845284	2154SK 14

### 2160SK PZ 3C-SCREWDRIVER WITH STRIKING CAP

for cross-head screws Pozi PZ

- > Acc. to DIN ISO 8764, tip acc. to DIN ISO 8764-1 PZ
- > 3-component handles Power-Grip<sup>3</sup> with striking cap
- > Ergonomic handle design enables precise and fatigue-free working
- > Positive-fit joint of handle and blade for optimum transmission of force
- > Hexagon blade with additional hexagon bolster
- > Blade from GEDORE molybdenum-vanadium-Plus tempered steel



⊕ PZ	M	mm	mm	mm	kg	Code	No.
1	M2 - M3	80	185	8	0.086	1845330	2160SK PZ 1
2	M3,5 - M5	100	205	10	0.148	1845349	2160SK PZ 2
3	M5,5 - M7	150	270	13	0.206	1845357	2160SK PZ 3

### 2160SK PH 3C-SCREWDRIVER WITH STRIKING CAP

for cross-head screws PH

- > Acc. to DIN ISO 8764, tip acc. to DIN ISO 8764-1 PH
- > 3-component handles Power-Grip<sup>3</sup> with striking cap
- > Ergonomic handle design enables precise and fatigue-free working
- > Positive-fit joint of handle and blade for optimum transmission of force
- > Hexagon blade with additional hexagon bolster
- > Blade from GEDORE molybdenum-vanadium-Plus tempered steel



⊕ PH	M	mm	mm	mm	kg	Code	No.
1	M2 - M3	80	185	8	0.086	1845292	2160SK PH 1
2	M3,5 - M5	100	205	10	0.148	1845306	2160SK PH 2
3	M5,5 - M7	150	270	13	0.204	1845314	2160SK PH 3
4	M8 - M10	200	320	16	0.292	1845322	2160SK PH 4

### SK 2154 PH-06 3C-SCREWDRIVER SET WITH STRIKING CAP

6 pieces

- > Practical set composition in environmentally-friendly cardboard box
- > For firmly seated slotted and cross-head screws PH
- > Hexagon blade with additional hexagon bolster
- > 3-component handles Power-Grip<sup>3</sup> with striking cap
- > Ergonomic handle design enables precise and fatigue-free working
- > Positive-fit joint of handle and blade for optimum transmission of force
- > Blade from GEDORE molybdenum-vanadium-Plus tempered steel



Contents	kg	Code	No.
⊖ 2154SK 4,5 5,5 6,5 8	0.880	1878743	SK 2154 PH-06
⊕ 2160SK PH 1 2			

## SCREWDRIVER WITH WOODEN HANDLE

### 147 SCREWDRIVER

for slotted head screws

- > Similar to DIN ISO 2380-2 Row B+C, blade tip acc. to DIN ISO 2380-1 Form A
- > Blade tanged right through the handle, chrome-plated
- > GEDORE vanadium steel 50CrV4
- > Hardwood handle, clear varnished with leather cap
- > Hexagon bolster for higher transmission of force



mm	mm	mm	mm	mm	kg	Code	No.
3.5	0.6	75	170	6	0.055	6413830	147 3,5
4.5	0.8	90	185	6	0.059	6413910	147 4,5
5.5	1.0	100	200	8	0.073	6414050	147 5,5
7.0	1.2	125	235	10	0.112	6414130	147 7
9.0	1.4	150	270	12	0.166	6414210	147 9
10.0	1.6	175	300	12	0.192	6414480	147 10
12.0	2.0	200	330	13	0.250	6414560	147 12

### 148 SCREWDRIVER

for slotted head screws

- > Similar to DIN ISO 2380-2 Row B+C, blade tip acc. to DIN ISO 2380-1 Form A
- > Hexagon blade with forged bolster for higher transmission of force
- > Blade tanged right through the handle, chrome-plated
- > GEDORE vanadium steel 50CrV4
- > Hardwood handle, clear varnished with leather cap



mm	mm	mm	mm	mm	kg	Code	No.
5.5	0.8	100	200	6	0.083	6415020	148 5,5
7.0	1.0	125	230	7	0.123	6415100	148 7
8.0	1.2	150	270	8	0.174	6415290	148 8
10.0	1.6	175	300	8	0.233	6415370	148 10
12.0	2.0	200	330	12	0.381	6415450	148 12
14.0	2.5	250	390	12	0.478	6415530	148 14

### 162 SCREWDRIVER

for cross-head screws PH

- > Similar to DIN ISO 8764-2, tip acc. to DIN ISO 8764-1 PH
- > Blade tanged right through the handle, chrome-plated
- > GEDORE vanadium steel 50CrV4
- > Hardwood handle, clear varnished with leather cap
- > Hexagon bolster for higher transmission of force



PH	M	mm	mm	mm	kg	Code	No.
1	M 2 - M 3	80	180	6	0.058	6429400	162 1
2	M 3,5 - M 5	100	210	10	0.096	6429590	162 2
3	M 6	150	275	12	0.172	6429670	162 3
4	M 8 - M 10	200	340	17	0.325	6429750	162 4

### 147-04 SCREWDRIVER SET

4 pieces

- > Work-orientated assortment packed in environmentally-friendly cardboard box
- > For slotted head screws
- > Blade tanged right through the handle, chrome-plated
- > GEDORE vanadium steel 50CrV4
- > Hardwood handle, clear varnished with leather cap
- > Hexagon bolster for higher transmission of force



Contents	kg	Code	No.
147 5,5 7 9 10	0.585	6422820	147-04

### 147-162-05 SCREWDRIVER SET

5 pieces

- > Work-orientated assortment packed in environmentally-friendly cardboard box
- > For slotted head and cross-head screws PH
- > Blade tanged right through the handle, chrome-plated
- > GEDORE vanadium steel 50CrV4
- > Hardwood handle, clear varnished with leather cap
- > Hexagon bolster for higher transmission of force



Contents	kg	Code	No.
147 5,5 7 9	0.535	6423120	147-162-05
162 1 2			

## ELECTRONIC SCREWDRIVER

## 171 IS ELECTRONIC SCREWDRIVER

for slotted head screws

- > Blade in high-alloy chrome-vanadium-molybdenum steel, chrome-plated
- > Tip additionally coated for highest precision and corrosion protection
- > 2-component-handle in ergonomic design
- > Pivoting end cap with micro anti-slip surface
- > Colour coding of the drive type



mm	mm	mm	Ø	kg	Code	No.
1.2	60	155	2,5	0.017	1845004	171 IS 1,2
1.5	60	155	2,5	0.014	6436450	171 IS 1,5
1.8	60	155	2,5	0.017	1845012	171 IS 1,8
2.0	60	155	2,5	0.017	6438660	171 IS 2
2.5	75	170	2,5	0.020	1845020	171 IS 2,5
3.0	100	195	3,0	0.023	1845039	171 IS 3

## 165 PH ELECTRONIC SCREWDRIVER

for cross-head screws PH

- > Blade in high-alloy chrome-vanadium-molybdenum steel, chrome-plated
- > Tip additionally coated for highest precision and corrosion protection
- > 2-component-handle in ergonomic design
- > Pivoting end cap with micro anti-slip surface
- > Colour coding of the drive type



PH	M	mm	mm	Ø	kg	Code	No.
000		60	155	2,5	0.018	1845047	165 PH 000
00		60	155	2,5	0.016	6442770	165 PH 00
0	M1,6 - M2	60	155	3,0	0.018	6442930	165 PH 0
1	M2-M3	80	175	4,5	0.031	1845055	165 PH 1

## 165 TX ELECTRONIC SCREWDRIVER

for recessed TORX® head screws

- > Blade in high-alloy chrome-vanadium-molybdenum steel, chrome-plated
- > Tip additionally coated for highest precision and corrosion protection
- > 2-component-handle in ergonomic design
- > Pivoting end cap with micro anti-slip surface
- > Colour coding of the drive type
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



T	M	mm	mm	mm	Ø	kg	Code	No.
T3	M1,2 - M1,4	1,13	60	155	2,5	0.016	1845098	165 TX T3
T4	M1,4	1,29	60	155	2,5	0.016	1845101	165 TX T4
T5	M1,8	1,42	60	155	2,5	0.017	1845128	165 TX T5
T6	M2	1,69	60	155	3,0	0.019	1845136	165 TX T6
T7	M2,5	1,99	60	155	3,0	0.019	1845144	165 TX T7
T8	M2,5	2,31	60	155	3,0	0.019	1845152	165 TX T8
T9	M3	2,50	60	155	3,0	0.019	1845160	165 TX T9
T10	M3 - M3,5	2,74	60	155	3,0	0.020	1845179	165 TX T10
T15	M3,5 - M4	3,27	60	155	3,5	0.023	1845187	165 TX T15
T20	M4 - M5	3,86	80	175	4,0	0.029	1845195	165 TX T20

## 164 IN ELECTRONIC SCREWDRIVER

for in-hex screws

- > Blade in high-alloy chrome-vanadium-molybdenum steel, chrome-plated
- > Tip additionally coated for highest precision and corrosion protection
- > 2-component-handle in ergonomic design
- > Pivoting end cap with micro anti-slip surface
- > Colour coding of the drive type



mm	mm	mm	Ø	kg	Code	No.
0,7	60	155	2,5	0.018	1845063	164 IN 0,7
0,9	60	155	2,5	0.018	1845071	164 IN 0,9
1,3	60	155	2,5	0.017	6443150	164 IN 1,3
1,5	60	155	2,5	0.017	6443230	164 IN 1,5
2	60	155	2,5	0.019	6443310	164 IN 2
2,5	60	155	3,0	0.016	6443580	164 IN 2,5
3	60	155	3,5	0.022	6443740	164 IN 3



## 165-171-06 ELECTRONIC SCREWDRIVER SET

6 pieces

- > For slotted head and cross-head screws PH
- > Blade in high-alloy chrome-vanadium-molybdenum steel, chrome-plated
- > Tip additionally coated for highest precision and corrosion protection
- > 2-component-handle in ergonomic design
- > Pivoting end cap with micro anti-slip surface
- > Colour coding of the drive type
- > In plastic case
- > With GEDORE Check-Tool-System: 2-colour foam insert to check that the set is complete





## 165 TX-06 ELECTRONIC SCREWDRIVER SET

6 pieces

- > For recessed TORX® head screws
- > Blade in high-alloy chrome-vanadium-molybdenum steel, chrome-plated
- > Tip additionally coated for highest precision and corrosion protection
- > 2-component-handle in ergonomic design
- > Pivoting end cap with micro anti-slip surface
- > Colour coding of the drive type
- > In plastic case
- > With GEDORE Check-Tool-System: 2-colour foam insert to check that the set is complete
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



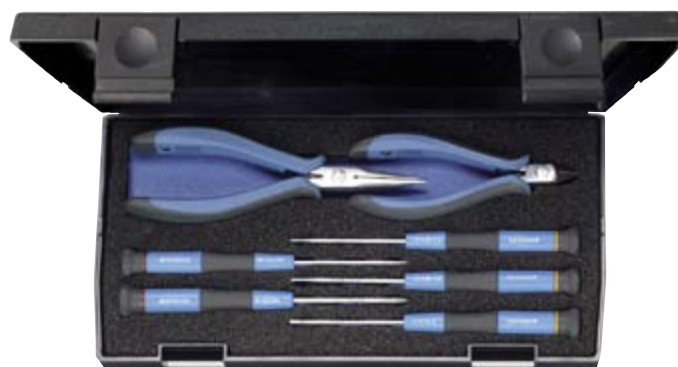
Contents		Code	No.
⊕ 165 PH 000 00 0	0.385	1902849	165-171-06
⊖ 171 IS 1,2 1,8 2,5			


Contents		Code	No.
⊕ 165 TX T5 T6 T7 T8 T9 T10	0.415	1902857	165 TX-06

## 1021 ELECTRONIC SCREWDRIVER SET

7 pieces

- > In plastic case
- > Dimensions: 275 x 150 x 42 mm

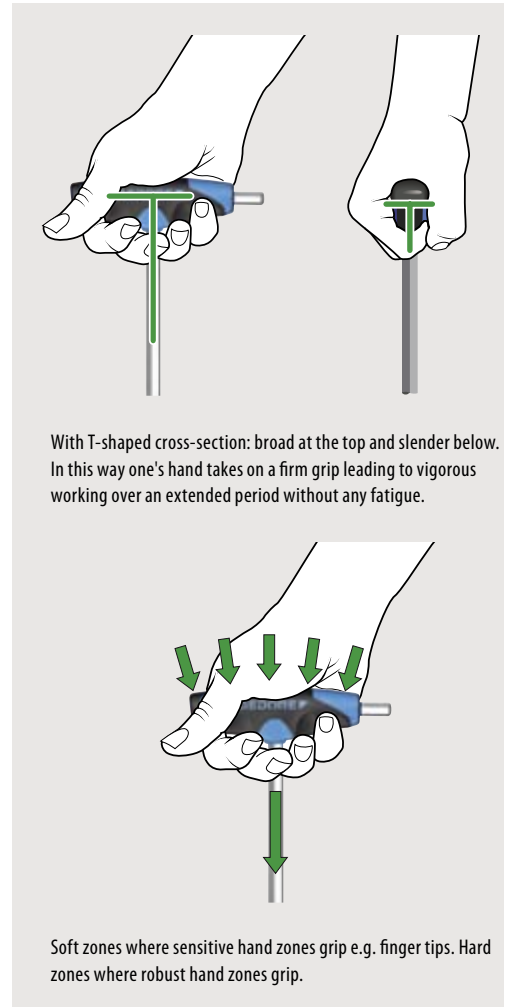
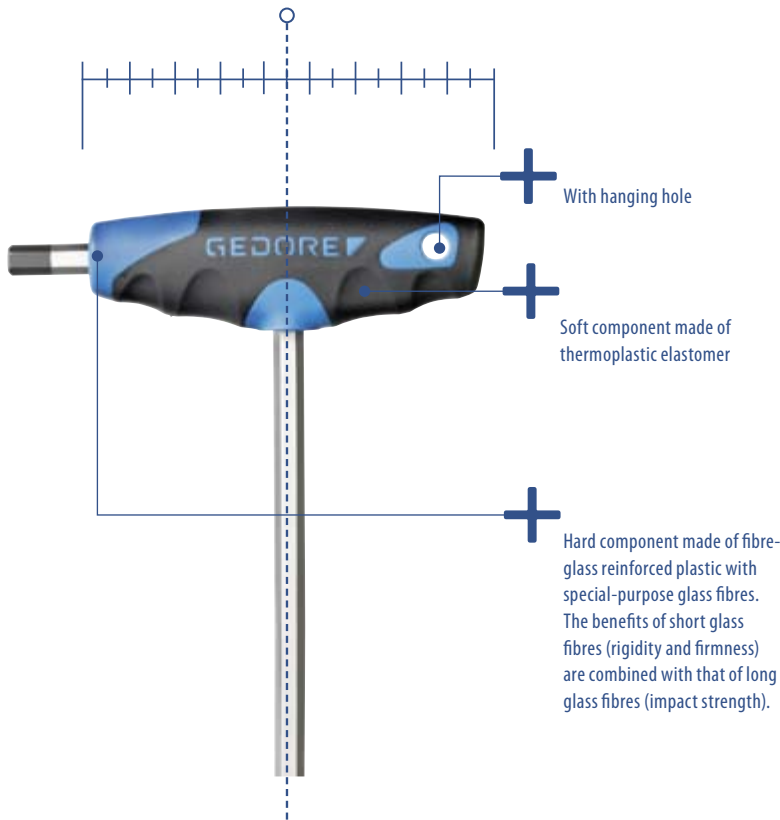


Contents		Code	No.
⊖ 171 IS 1,2 1,5 2	0.624	6601830	1021
⊕ 165 PH 00 0			
8305-2			
8306-5			



## 2GT-HANDLE

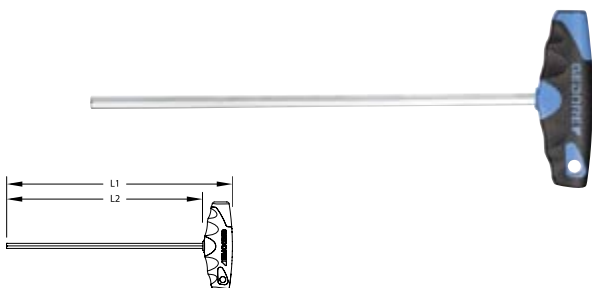
> 2-component wing handle for high torque level when loosening or tightening. The lengthened wing provides an optimum contact surface for the palm of one's hand. It thus easily transfers considerable forces in a relaxed hand's position.



### 2142 T (MM) HEXAGON ALLEN KEY WITH 2GT-HANDLE

for in-hex screws

- > With hanging hole
- > GEDORE vanadium steel 61CrSIV5, chromated

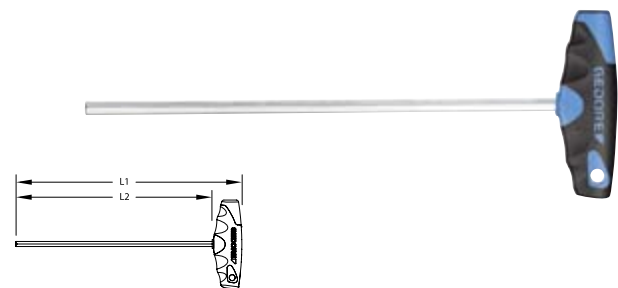


● mm	L <sub>1</sub>	L <sub>2</sub>	⚖	Code	No.
2	152	125	0.061	2647257	2142T2
2,5	152	125	0.091	2647265	2142T2,5
3	152	125	0.071	2647273	2142T3
4	152	125	0.080	2647281	2142T4
5	177	150	0.100	2647303	2142T5
6	188	150	0.140	2647311	2142T6
7	213	175	0.160	2681439	2142T7
8	213	175	0.221	2647338	2142T8
10	238	200	0.201	2647346	2142T10

### 2142 T (AF) HEXAGON ALLEN KEY WITH 2GT-HANDLE

for in-hex screws

- > With hanging hole
- > GEDORE vanadium steel 61CrSIV5, chromated



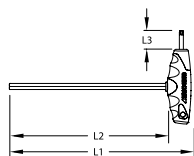
● AF	L <sub>1</sub>	L <sub>2</sub>	⚖	Code	No.
1/8	152	125	0.101	2647354	2142T1/8AF
5/32	152	125	0.121	2647362	2142T5/32AF
3/16	177	150	0.100	2647370	2142T3/16AF
1/4	213	175	0.140	2647389	2142T1/4AF
5/16	213	175	0.221	2647397	2142T5/16AF
3/8	238	200	0.201	2647400	2142T3/8AF

## DT 2142

### HEXAGON ALLEN KEY WITH 2CT-HANDLE

for in-hex screws

- > With hanging hole
- > With 2 hexagons, same size each end
- > GEDORE vanadium steel 61CrSiV5, chromated



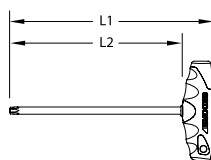
mm	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	g	Code	No.
2	152	125	15	0.091	2488914	DT 2142 2
2,5	152	125	15	0.071	2498596	DT 2142 2,5
3	152	125	15	0.040	2498618	DT 2142 3
4	152	125	15	0.080	2498626	DT 2142 4
5	177	150	20	0.100	2502631	DT 2142 5
6	188	150	20	0.120	2502658	DT 2142 6
7	213	175	25	0.251	2505487	DT 2142 7
8	213	175	25	0.180	2507447	DT 2142 8
10	238	200	25	0.280	2507471	DT 2142 10

## 2142 TX

### WRENCH KEY WITH 2CT-HANDLE

for recessed TORX® screws

- > With hanging hole
- > Chrome-vanadium steel, blade chrome-plated, tip gun-metal finish
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



mm	M	mm	L <sub>1</sub>	L <sub>2</sub>	g	Code	No.
T5	M1,8	1,42	152	125	0.081	2509393	2142 TX T5
T6	M2	1,70	152	125	0.081	2511622	2142 TX T6
T7	M2,5	1,99	152	125	0.081	2511657	2142 TX T7
T8	M2,5	2,31	152	125	0.051	2513072	2142 TX T8
T9	M3	2,50	152	125	0.071	2513102	2142 TX T9
T10	M3 - M3,5	2,74	152	125	0.061	2513749	2142 TX T10
T15	M3,5 - M4	3,27	152	125	0.091	2516934	2142 TX T15
T20	M4 - M5	3,86	152	125	0.081	2519062	2142 TX T20
T25	M4,5 - M5	4,43	177	150	0.091	2519186	2142 TX T25
T27	M4,5 - M6	4,99	177	150	0.100	2521571	2142 TX T27
T30	M6 - M7	5,52	188	150	0.100	2521598	2142 TX T30
T40	M7 - M8	6,65	213	175	0.140	2521601	2142 TX T40
T45	M8 - M10	7,82	213	175	0.160	2521636	2142 TX T45
T50	M10	8,83	238	200	0.180	2521644	2142 TX T50

1500 CT2-DT 2142



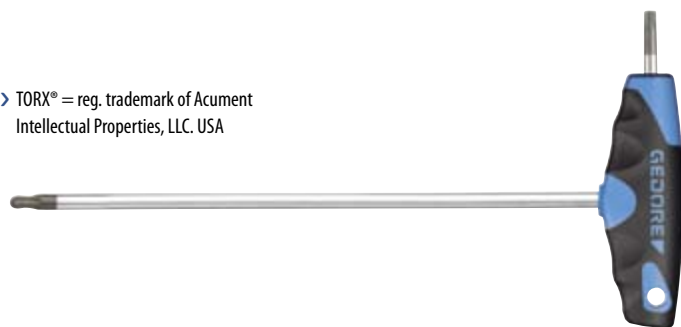
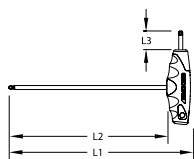
>110

## DT 2143 KTX

### CRANKED SOCKET KEY WITH 2CT-HANDLE

for recessed TORX® screws

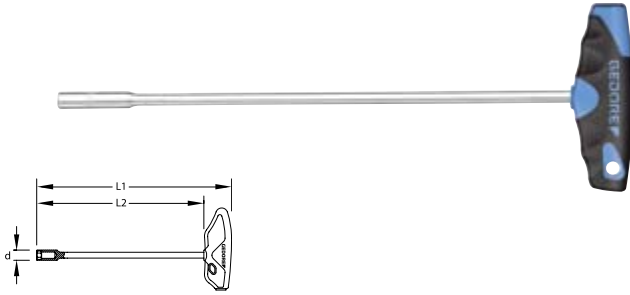
- > Working angle approx. 25°
- > With hanging hole
- > Chrome-vanadium steel, blades chrome-plated, tip phosphated
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



mm	M	mm	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	g	Code	No.
T10	M3 - M3,5	2,74	152	125	15	0.091	2647486	DT 2143 KTX T10
T15	M3,5 - M4	3,27	152	125	15	0.081	2647494	DT 2143 KTX T15
T20	M4 - M5	3,86	152	125	15	0.071	2647508	DT 2143 KTX T20
T25	M4,5 - M5	4,43	177	150	20	0.121	2647516	DT 2143 KTX T25
T27	M4,5 - M6	4,99	177	150	20	0.120	2647524	DT 2143 KTX T27
T30	M6 - M7	5,52	188	150	25	0.140	2647532	DT 2143 KTX T30
T40	M7 - M8	6,65	213	175	25	0.180	2647540	DT 2143 KTX T40

## 2133 T NUT DRIVER WITH 2GT-HANDLE

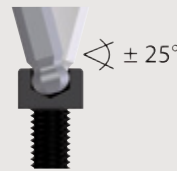
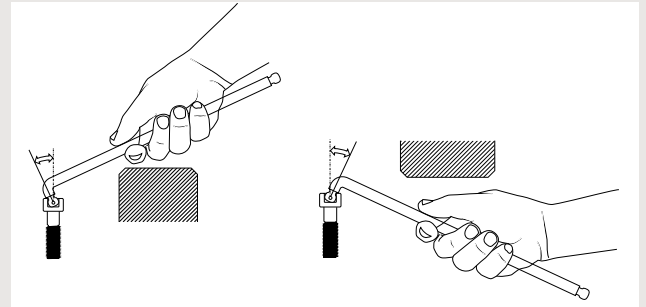
- > With hanging hole
- > Head depth 25 mm
- > GEDORE vanadium steel 31CrV3, matt chrome-plated



Ø mm	L <sub>1</sub>	L <sub>2</sub>	d		Code	No.
5.5	257	230	8	0.101	2647621	2133 T 5,5
6.0	257	230	9	0.101	2647648	2133 T 6
7.0	268	230	11	0.101	2647656	2133 T 7
8.0	268	230	12	0.180	2647664	2133 T 8
9.0	268	230	13	0.180	2647672	2133 T 9
10.0	268	230	14	0.180	2647680	2133 T 10
11.0	268	230	16	0.200	2647699	2133 T 11
12.0	268	230	17	0.220	2647702	2133 T 12
13.0	268	230	18	0.240	2647710	2133 T 13

## 42 DKEL - THE FIRST WITH TWO BALL ENDS

- > Two ball ends and an extra short angle side for working optimally in confined spaces
- > Positive or negative inclination produces a possible 50° angle of approach (+/- 25°) to the screw axis
- > Projecting hindrances can be got round with the two ball ends - rapid work is the outcome
- > The GEDORE vanadium steel 59CRV4 with its high manganese share ensures the screwdriver has that strength needed



## DTT 42 HEXAGON ALLEN KEY

for in-hex screws

- > With 3 hexagons, same size each end
- > T-handle fixed



Ø mm	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	Ø		Code	No.
3	150	75	30	5.0	0.042	1669540	DTT 42 3
4	180	90	35	6.0	0.064	1669559	DTT 42 4
5	180	90	35	7.0	0.092	1669567	DTT 42 5
6	210	105	40	8.0	0.134	1669575	DTT 42 6
8	250	125	50	9.5	0.224	1669583	DTT 42 8
10	300	150	60	12.0	0.418	1669591	DTT 42 10

## H 42 DKEL-88 HEXAGON ALLEN KEY SET

for in-hex screws, extra long, with double ball end

- > Particularly suitable for confined spaces in view of a double ball end and short angled side
- > Easy to use where normal hexagon allen keys would fail thanks to improved accessibility and a low profile
- > Rapid progress in work since the two ball ends allow protrusions to be gone round
- > Reduces the risk of injury to the fingers when working on flat surfaces
- > GEDORE vanadium steel 59CrV4, zinc-plated



Contents		Code	No.
● mm 42 DKEL 2 2,5 3 4 5 6 8 10	0.400	2797186	H 42 DKEL-88

## 42 DKEL HEXAGON ALLEN KEY

for in-hex screws, extra long, with double ball end

- > Particularly suitable for confined spaces in view of a double ball end and short angled side
- > Easy to use where normal hexagon allen keys would fail thanks to improved accessibility and a low profile
- > Rapid progress in work since the two ball ends allow protrusions to be gone round
- > Reduces the risk of injury to the fingers when working on flat surfaces
- > GEDORE vanadium steel 59CrV4, zinc-plated



mm	L <sub>1</sub>	L <sub>2</sub>	kg	Code	No.
1,5	89	7.5	0.003	2797062	42 DKEL 1,5
2	102	9.0	0.004	2797089	42 DKEL 2
2,5	115	10.0	0.006	2797097	42 DKEL 2,5
3	129	11.5	0.010	2797100	42 DKEL 3
4	144	14.5	0.018	2797119	42 DKEL 4
5	165	16.5	0.050	2797127	42 DKEL 5
6	186	19.0	0.060	2797135	42 DKEL 6
7	197	20.5	0.070	2797143	42 DKEL 7
8	205	22.0	0.090	2797151	42 DKEL 8
10	227	28.0	0.160	2797178	42 DKEL 10

## H 42 KEL-88 HEXAGON ALLEN KEY SET

for in-hex screws, extra long, with ball end

- > In blue plastic holder (LPDE)
- > GEDORE vanadium steel 59CrV4, chromated

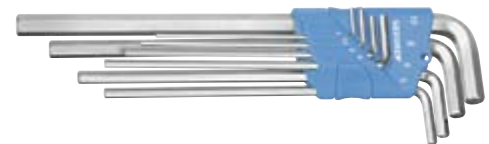


Contents	kg	Code	No.
mm 42 KEL 2 2,5 3 4 5 6 8 10	0.415	1523988	H 42 KEL-88

## H 42 EL-88 HEXAGON ALLEN KEY SET

for in-hex screws, extra long

- > In blue plastic holder (LPDE)
- > Acc. to DIN ISO 2936
- > GEDORE vanadium steel 61CrSiV5, zinc-plated



Contents	kg	Code	No.
mm 42 EL 2 2,5 3 4 5 6 8 10	0.425	1505416	H 42 EL-88

## 42 KEL HEXAGON ALLEN KEY

for in-hex screws, extra long, with ball end

- > GEDORE vanadium steel 59CrV4, chrome-plated

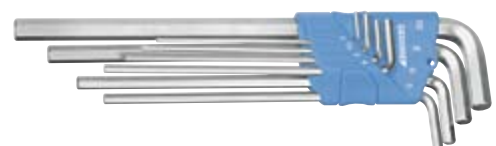


mm	L <sub>1</sub>	L <sub>2</sub>	kg	Code	No.
1,5	91.5	15.5	0.003	1563556	42 KEL 1,5
2	102.0	18.0	0.004	6370090	42 KEL 2
2,5	114.5	20.5	0.006	6370170	42 KEL 2,5
3	129.0	23.0	0.010	6370250	42 KEL 3
4	144.0	29.0	0.019	6370330	42 KEL 4
5	165.0	33.0	0.033	6370410	42 KEL 5
6	186.0	38.0	0.053	6370680	42 KEL 6
7	197.0	41.0	0.076	1729241	42 KEL 7
8	208.0	44.0	0.103	6370760	42 KEL 8
10	234.0	50.0	0.179	6370840	42 KEL 10
12	262.0	57.0	0.287	6370920	42 KEL 12

## H 42 EL-88 A HEXAGON ALLEN KEY SET

for in-hex screws, extra long

- > In blue plastic holder (LPDE)
- > GEDORE vanadium steel 61CrSiV5, zinc-plated



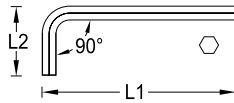
Contents	kg	Code	No.
AF 42 EL 5/64 3/32 1/8 5/32 3/16 7/32 1/4 5/16"	0.300	1543555	H 42 EL-88 A



## 42 EL (MM) HEXAGON ALLEN KEY

for in-hex screws, extra long

- > Acc. to DIN ISO 2936
- > GEDORE vanadium steel 61CrSiV5, zinc-plated

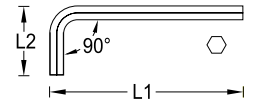


● mm	L <sub>1</sub>	L <sub>2</sub>	⚖️	Code	No.
2	102.0	18.0	0.004	6350810	42 EL 2 (5/64AF)
2,5	114.5	20.5	0.007	6351030	42 EL 2,5
3	129.0	23.0	0.010	6351110	42 EL 3
4	144.0	29.0	0.019	6351380	42 EL 4
5	165.0	33.0	0.033	6351460	42 EL 5
5,5	186.0	38.0	0.047	1543342	42 EL 7/32AF (5,5MM)
6	186.0	38.0	0.054	6351540	42 EL 6
7	194.0	41.0	0.750	2977486	42 EL 7
8	208.0	44.0	0.104	6351620	42 EL 8
10	234.0	50.0	0.184	6351700	42 EL 10
12	262.0	57.0	0.293	6351890	42 EL 12
14	294.0	70.0	0.453	6351970	42 EL 14

## 42 EL (AF) HEXAGON ALLEN KEY

for in-hex screws, extra long

- > GEDORE vanadium steel 61CrSiV5, zinc-plated



● AF	L <sub>1</sub>	L <sub>2</sub>	⚖️	Code	No.
5/64	102.0	18.0	0.004	6350810	42 EL 2 (5/64AF)
3/32	114.5	20.5	0.006	1543377	42 EL 3/32AF
1/8	129.0	23.0	0.011	1543318	42 EL 1/8AF
5/32	144.0	29.0	0.019	1543326	42 EL 5/32AF
3/16	165.0	33.0	0.030	1543334	42 EL 3/16AF
7/32	186.0	38.0	0.047	1543342	42 EL 7/32AF (5,5MM)
1/4	197.0	41.0	0.065	1543369	42 EL 1/4AF
5/16	208.0	44.0	0.103	1543350	42 EL 5/16AF
3/8	234.0	50.0	0.167	1543385	42 EL 3/8AF
1/2	277.0	63.0	0.355	1543393	42 EL 1/2AF
9/16	294.0	70.0	0.475	1543407	42 EL 9/16AF

## PH 42-88 HEXAGON ALLEN KEY SET

for in-hex screws

- > In blue plastic holder
- > GEDORE vanadium steel 61CrSiV5, zinc-plated



Contents	⚖️	Code	No.
● mm 42 2,5 3 4 5 6 8 10	0.245	6352000	PH 42-88

## H 42-10 HEXAGON ALLEN KEY SET

for in-hex screws

- > In blue plastic holder (LPDE)
- > Acc. to DIN ISO 2936
- > GEDORE vanadium steel 61CrSiV5, zinc-plated



Contents	⚖️	Code	No.
● mm 42 1,3 1,5 2 2,5 3 4 5 6 8 10	0.259	1505408	H 42-10

# 42 (MM) HEXAGON ALLEN KEY SET

for in-hex screws

- > In blue PVC wallet
- > GEDORE vanadium steel 61CrSiV5, zinc-plated



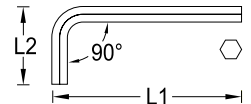
Contents		Code	No.
<b>mm 42 2 2,5 3 4 5 6 8</b>	0.144	6347510	42-07
<b>mm 42 2,5 3 4 5 6 8 10</b>	0.254	6349050	42-70

Contents		Code	No.
<b>mm 42 3 4 5 6 8 10 12 14</b>	0.716	6347780	42-08
<b>mm 42 2 2,5 3 4 5 6 7 8 10</b>	0.297	6347860	42-09

# 42 (MM) HEXAGON ALLEN KEY

for in-hex screws

- > Acc. to DIN ISO 2936
- > GEDORE vanadium steel 61CrSiV5, sizes 0.7 mm and 0.9 mm gun-metal finish, zinc-plated up to size 12 mm, chrome-plated up from size 14 mm
- \* not standardised



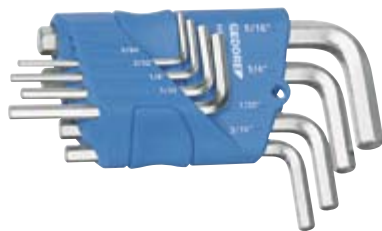
mm	L <sub>1</sub>	L <sub>2</sub>		Code	No.
0,7	33.0	7.0	0.001	6342200	42 0,7
0,9	33.0	11.0	0.001	6342390	42 0,9
1,3	41.0	13.0	0.001	6342470	42 1,3
1,5	46.5	15.5	0.001	6340260	42 1,5
2	52.0	18.0	0.002	6340340	42 2 (5/64AF)
2,5	58.5	20.5	0.004	6340420	42 2,5
3	66.0	23.0	0.006	6340500	42 3
4	74.0	29.0	0.011	6340690	42 4
5	85.0	33.0	0.019	6340770	42 5
5,5	*	82.0	0.022	6344840	42 7/32AF (5,5MM)
6		96.0	0.031	6340850	42 6
7	*	102.0	0.044	6340930	42 7

mm	L <sub>1</sub>	L <sub>2</sub>		Code	No.	
8	108.0	44.0	0.061	6341070	42 8	
9	*	114.0	47.0	0.081	6341150	42 9
10	122.0	50.0	0.106	6341230	42 10	
12	137.0	57.0	0.169	6341310	42 12	
14	154.0	70.0	0.266	6341580	42 14	
17	177.0	80.0	0.430	6341660	42 17	
19	199.0	89.0	0.602	6341740	42 19	
22	222.0	102.0	0.907	6341820	42 22	
24	248.0	114.0	1.211	6341900	42 24	
27	277.0	127.0	1.711	6342550	42 27	
30	315.0	142.0	2.423	6342630	42 30	
32	347.0	157.0	3.010	6342710	42 32	

# H 42-88 A HEXAGON ALLEN KEY SET

for in-hex screws

- > In blue plastic holder (LPDE)
- > GEDORE vanadium steel 61CrSiV5, zinc-plated



Contents		Code	No.
<b>"AF 42 5/64 3/32 1/8 5/32 3/16 7/32 1/4 5/16"</b>	0.172	1505424	H 42-88 A

# 42 (AF) HEXAGON ALLEN KEY SET

for in-hex screws

- > In blue PVC wallet
- > GEDORE vanadium steel 61CrSiV5, zinc-plated

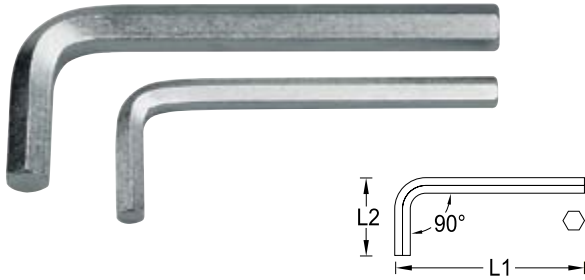


Contents		Code	No.
<b>"AF 5/64 3/32 1/8 5/32 3/16 7/32 1/4"</b>	0.103	6348750	42-07 A
<b>"AF 1/8 5/32 3/16 1/4 5/16 3/8 1/2 9/16"</b>	0.731	6348830	42-08 A
<b>"AF 5/64 3/32 1/8 5/32 3/16 7/32 1/4 5/16 3/8"</b>	0.257	6348910	42-09 A

## 42 (AF) HEXAGON ALLEN KEY

for in-hex screws

> GEDORE vanadium steel 61CrSiV5, zinc-plated up to size 1/2", chrome-plated up from size 9/16"



● "AF	L <sub>1</sub>	L <sub>2</sub>	⚖ kg	Code	No.
3/64	41.0	13.0	0.002	6342120	42 3/64AF
1/16	46.5	15.5	0.002	6342040	42 1/16AF
3/32	56.5	20.5	0.004	6344330	42 3/32AF
5/64	52.0	18.0	0.002	6340340	42 2 (5/64AF)
1/8	60.0	23.0	0.006	6344410	42 1/8AF
5/32	67.0	26.0	0.010	6344680	42 5/32AF
3/16	73.0	30.0	0.015	6344760	42 3/16AF
7/32	82.0	32.0	0.022	6344840	42 7/32AF (5,5MM)
1/4	92.0	36.5	0.035	6344920	42 1/4AF
5/16	102.0	43.0	0.059	6345060	42 5/16AF
3/8	115.0	49.0	0.094	6345140	42 3/8AF
1/2	142.0	61.0	0.205	6345220	42 1/2AF
9/16	154.0	66.0	0.274	6345300	42 9/16AF
5/8	168.0	76.0	0.376	6345490	42 5/8AF
3/4	199.0	89.0	0.309	6345570	42 3/4AF

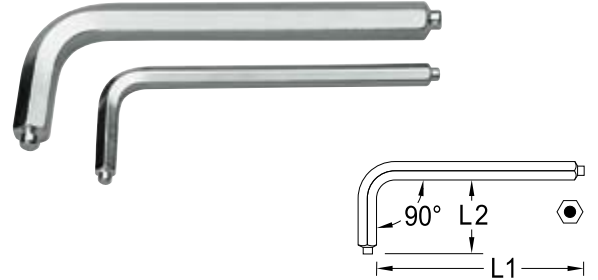
## 42 Z HEXAGON ALLEN KEY

with pilot, for in-hex screws

> Acc. to DIN 6911

> Chrome-vanadium steel, zinc-plated

\* not standardised



● mm	L <sub>1</sub>	L <sub>2</sub>	⚖ kg	Code	No.
3	63	20	0.006	6342980	42 Z 3
4	70	25	0.010	6343010	42 Z 4
5	80	28	0.019	6343280	42 Z 5
6	90	32	0.031	6343360	42 Z 6
7	*	34	0.042	6343440	42 Z 7
8	100	36	0.058	6343520	42 Z 8
10	112	40	0.100	6343600	42 Z 10
12	125	45	0.162	6343790	42 Z 12
14	140	56	0.254	6343870	42 Z 14
17	160	63	0.418	6343950	42 Z 17
19	180	70	0.584	6344090	42 Z 19

## S 42-09 A HEXAGON ALLEN KEY SET

for in-hex screws

> On key ring with quick release

> GEDORE vanadium steel 61CrSiV5, zinc-plated



Contents	⚖ kg	Code	No.
● "AF 42 5/64 3/32 1/8 5/32 3/16 7/32 1/4 5/16 3/8"	0.273	6348160	S 42-09 A

## S 42-07 HEXAGON ALLEN KEY SET

for in-hex screws

> On key ring with quick release

> GEDORE vanadium steel 61CrSiV5, zinc-plated



Contents	⚖ kg	Code	No.
● mm 42 2,5 3 4 5 6 8	0.162	6347430	S 42-07



## SCL 42-70 HEXAGON ALLEN KEY SET

for in-hex screws

- > In robust metal clip
- > GEDORE vanadium steel 61CrSiV5, zinc-plated



Contents		Code	No.
● mm 2,5 3 4 5 6 8 10	0.360	6347350	SCL 42-70

## SCL 42 K-70 HEXAGON ALLEN KEY SET

for in-hex screws

- > In robust metal clip
- > Execution K with ball end
- > GEDORE vanadium steel 61CrSiV5, zinc-plated



Contents		Code	No.
● mm 2,5 3 4 5 6 8 10	0.361	6371140	SCL 42 K-70

## SCL 42-90 A HEXAGON ALLEN KEY SET

for in-hex screws

- > In robust metal clip
- > GEDORE vanadium steel 61CrSiV5, zinc-plated



Contents		Code	No.
● AF 5/64 3/32 7/64 1/8 9/64 5/32 3/16 7/32 1/4"	0.260	6354800	SCL 42-90 A

## SCL 43 TX-80 CRANKED SOCKET KEY SET

for recessed TORX® screws

- > In robust metal clip
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

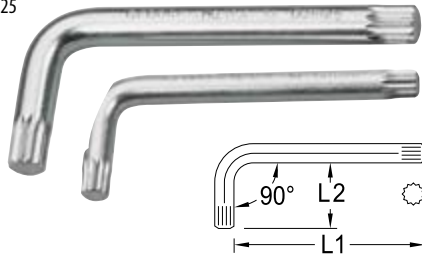


Contents		Code	No.
● T9 T10 T15 T20 T25 T27 T30 T40	0.286	6346460	SCL 43 TX-80

## 42 X CRANKED ALLEN SOCKET SCREWDRIVER

for multi-point screws XZN

- > Acc. to DIN 65253, tips acc. to DIN 2325
- > GEDORE vanadium steel 50CrV4, chromated

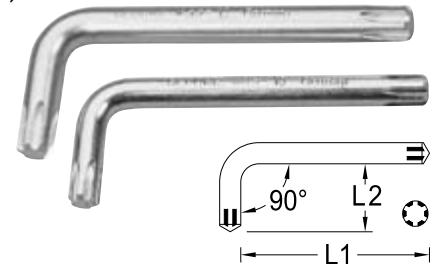


		L <sub>1</sub>	L <sub>2</sub>		Code	No.
M 4		63	20	0.009	1531212	42 X 4
M 5		75	30	0.015	6350060	42 X 5
M 6		86	34	0.025	6350140	42 X 6
M 8		98	40	0.043	6350220	42 X 8
M 10		110	46	0.085	6350300	42 X 10
M 12		124	52	0.124	6350490	42 X 12
M 14		139	59	0.191	6350570	42 X 14
M 16		156	72	0.308	6350650	42 X 16
M 18		178	81	0.333	6350730	42 X 18

## 43 CRANKED SOCKET KEY

for multi-spline screws RIBE®

- > GEDORE vanadium steel 50CrV4, chromated
- > RIBE® = reg. trademark of Richard Bergner GmbH & Co. KG, Schwabach, Germany



		L <sub>1</sub>	L <sub>2</sub>		Code	No.
M 5		71	25	0.016	6352270	43 5
M 6		80	28	0.025	6352350	43 6
M 8		90	32	0.049	6352430	43 8
M 10		100	36	0.084	6352510	43 10
M 12		112	40	0.135	6352780	43 12
M 14		125	45	0.203	6352860	43 14

## H 43 TX

### CRANKED SOCKET KEY SET

for recessed TORX® screws

- > In blue LDPE holder
- > Chrome-vanadium steel 50CrV4, gun-metal finish
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



Contents	kg	Code	No.
43 TX T7 T8 T9 T10 T15 T20 T25 T30 T40	0.120	1531417	H 43 TX-09
43 TX T9 T10 T15 T20 T25 T27 T30 T40	0.129	1531425	H 43 TX-88
43 TX T10 T15 T20 T25 T27 T30 T40 T45	0.168	1531433	H 43 TX-08

## 43 TX-09

### CRANKED SOCKET KEY SET

for recessed TORX® screws

- > In blue PVC wallet
- > Chrome-vanadium steel 50CrV4, gun-metal finish
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



Contents	kg	Code	No.
43 TX T7 T8 T9 T10 T15 T20 T25 T30 T40	0.115	6360960	43 TX-09

## 43 TX

### CRANKED SOCKET KEY

for recessed TORX® screws

- > Chrome-vanadium steel 50CrV4, gun-metal finish
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



⊕	M	mm	L <sub>1</sub>	L <sub>2</sub>	kg	Code	No.
T6	M2	1,69	42	16	0.003	6363550	43 TX T6
T7	M2,5	1,99	48	16	0.003	6363630	43 TX T7
T8	M2,5	2,31	48	16	0.004	6363710	43 TX T8
T9	M3	2,50	48	16	0.004	6363980	43 TX T9
T10	M3 - M3,5	2,74	51	17	0.005	6364010	43 TX T10
T15	M3,5 - M4	3,27	54	18	0.006	6364280	43 TX T15
T20	M4 - M5	3,86	57	19	0.008	6364360	43 TX T20
T25	M4,5 - M5	4,43	60	20	0.010	6364440	43 TX T25
T27	M4,5 - M6	4,99	64	21	0.016	6364520	43 TX T27
T30	M6 - M7	5,52	70	24	0.022	6364600	43 TX T30
T40	M7 - M8	6,65	76	26	0.031	6364790	43 TX T40
T45	M8 - M10	7,82	83	29	0.046	6364870	43 TX T45
T50	M10	8,83	95	32	0.060	6364950	43 TX T50
T55	M12	11,22	108	35	0.122	6365090	43 TX T55
T60	M14	13,25	120	38	0.187	6365170	43 TX T60

## H 43 KTX-07

### CRANKED SOCKET KEY SET

for recessed TORX® screws

- > In blue LDPE holder
- > With ball end
- > Chrome-vanadium steel 50CrV4, gun-metal finish
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

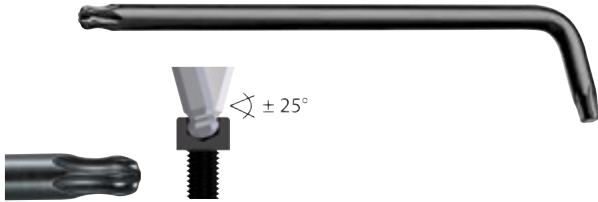


Contents	kg	Code	No.
43 KTX T10 T15 T20 T25 T27 T30 T40	0.169	1531441	H 43 KTX-07

# 43 KTX CRANKED SOCKET KEY

for recessed TORX® screws, with ball end

- > Working angle approx. 25°
- > Chrome-vanadium steel, gun-metal finish
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



⊕	mm	mm	L <sub>1</sub>	L <sub>2</sub>	kg	Code	No.
T10	M3 - M3,5	2,74	73	17	0.006	6367110	43 KTX T10
T15	M3,5 - M4	3,27	83	17	0.009	6367380	43 KTX T15
T20	M4 - M5	3,86	94	18	0.012	6367460	43 KTX T20
T25	M4,5 - M5	4,43	96	18	0.015	6367540	43 KTX T25
T27	M4,5 - M6	4,99	106	20	0.024	6367620	43 KTX T27
T30	M6 - M7	5,52	119	24	0.033	6367700	43 KTX T30
T40	M7 - M8	6,65	132	26	0.049	6367890	43 KTX T40

# 708 TORX® GAUGE

- > Easy identification of TORX® sizes, internal E4-E16, external T10-T60
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



Contents	kg	Code	No.
⊕ E4 - E16	0.022	1394428	708
⊕ T10 - T60			

# 173 CRANKED SCREWDRIVER

for slotted head screws

- > Acc. to DIN 5200, blade tips acc. to DIN ISO 2380-2
- > Chrome-vanadium steel, matt nickel-plated



mm	mm	mm	kg	Code	No.
3.5	0.6	90	0.010	6437180	173 3,5
4.0	0.8	100	0.013	6437850	173 4
5.5	1.0	125	0.025	6436100	173 5,5
8.0	1.2	150	0.050	6436370	173 8
10.0	1.6	175	0.087	6437930	173 10
12.0	2.0	200	0.127	6436530	173 12

# 174 CRANKED SCREWDRIVER

for cross-head screws PH

- > Acc. to DIN 5208, tips acc. to DIN ISO 8764-1 PH
- > Chrome-vanadium steel, matt nickel-plated



⊕ PH	mm	mm	kg	Code	No.
1-2	M2 - M5	100	0.029	6436880	174 1
3-4	M6 - M10	200	0.121	6436960	174 3

## VARIOUS

# 149 MAGNETIZER AND DEMAGNETIZER

- > Magnetizes or demagnetizes screwdrivers, tweezers and similar tools made from steel
- > Blue housing, made from high-quality plastic, unbreakable, cadmium-free



L	H	W	kg	Code	No.
52	26	50	0.088	6416500	149

# 156 S SQUARE BLADED AWL

- > Blue handle with hanging hole
- > Blade bright nickel-plated



mm	mm	kg	Code	No.
100	200	0.084	6424520	156 S



# PLIERS

COMBINATION PLIERS  
>370



SIDE CUTTERS /  
END CUTTING NIPPERS  
>373



FLAT NOSE /  
ROUND NOSE PLIERS  
>376



MECHANICS PLIERS  
>379



BOWDEN CABLE CUTTER /  
CABLE SHEARS  
>380



WIRE-STRIPPING PLIERS  
>382



ELECTRONIC PLIERS / ACCES-  
SORIES, STRIPPING TOOLS  
>383



CRIMPING PLIERS  
>393



CIRCLIP PLIERS  
>400



GRIP WRENCHES  
>407



PIPE WRENCHES /  
SPECIAL PLIERS  
>411



WATER PUMP /  
UNIVERSAL PLIERS  
>415



BOLT CUTTERS  
>419



BLACKSMITH'S TONGS  
>420



PLIERS ASSORTMENTS  
>421



# FEEL THE MARKED DIFFERENCE WITH THE GEDORE PLIER HANDLES

## Everything handled securely

- › Use of the best-possible steels, most up-to-date machinery and environmentally-friendly production processes
- › Our tool specialists vouch for exactness in processing and continuous refinements
- › Unique manufacturing processes and special tool treatment bring about the best in results
- › Stringent quality checks after each production step ensure a constantly high level
- › Professional service up to the development of special customised tools

## Precision, dimensioned accuracy and exactness of fitting

- › High-grade industrial quality for the toughest forms of continuous use and safety in everyday work
- › High bending stiffness thanks to GEDORE special hardened and tempered steel
- › GEDORE pliers do not fracture or splinter when overloaded but deform under incorrect use, therefore posing a lower risk of injury to the user
- › GEDORE pliers rest comfortably in the hand (M/XL/XXL) - the most important requirement, in fact, for non-taxing and safe working

## Intelligently designed on the MIN-MAX principle

- › Benefits in practical application from optimum utilization made of the laws of leverage.
- › Maximum power transfer of the pliers with a minimum effort required
- › For the pliers this means: optimum transfer of power - very high cutting performance
- › For those using the pliers this means: precise, fatigue-free and ergonomic working
- › The specially developed "power pliers" stands up well particularly in hard continuous operations (higher clamping forces with up to 35 % less effort exerted)



## Powerful gripping made easy

- › Fitted with anti-slip nubs and finger protection - for a firm grip
- › Ergonomically ideally placed hard and soft elements ensure fatigue-free working
- › Kind-to-hands feel, extensive hand contact surface
- › Anti-slip nubs support thumb gripping
- › They provide thumb with the right hold and ensure reliable plier guidance
- › This is true particularly for pulling or rotating movements with the pliers



# MANUFACTURING PROCESS FOR 8250 COMBINATION PLIERS



**1**  
Blank cropped to size from C50 hardened and tempered steel.



**2**  
Hot forged in the double forging die. The excess burr is removed under an eccentric press.



**3**  
The blanks are "normalised" to obtain an even finer-grain, more uniform structure with optimum strength. After descaling, the blanks are calibrated for the following work steps.



**4**  
The head is machined in a CNC-controlled machining centre. The rivet hole is drilled and counter-bored. The joint clearance and the outer contour are milled. The geometry of the joint area and the coarse and fine toothing are broached.



**5**  
The joint faces are precision milled. The pliers head takes on its final form.



**6**  
The moving and fixed pliers legs are riveted together. A smooth-moving joint with no play is the essential requirement for safe one-handed operation.



**7**  
In a chamber hardening kiln, the pliers are hardened in a protective gas atmosphere, quenched in oil and finally annealed. The design of the hardening kiln ensures that the process gases are uniformly distributed, which has a positive effect on the desired material properties.



**8**  
The cutting edges of GEDORE pliers are once again induction hardened. The additional hardness that this achieves ensures a good cutting performance and a long life between sharpening.



**9**  
The pliers head is ground to achieve a flush geometry.



**10**  
The surface is cleaned by sand blasting. The removal of scale and grease is necessary for the follow-on electroplating process.



**11**  
Nickel-plated and matt-chrome-plated to prevent dazzle. The electrolytically deposited nickel coating provides the corrosion protection. The electroplated chrome improves the look and gives the pliers a perfect finish.



**12**  
TL pliers are painted black by a robot, using water soluble paint.



**13**  
The 2-component handles are pressed on and bonded.



**14**  
The plastic coating on the handles is built up by multiple dipping in liquid immersion compound.

## The complete range: form and function perfection

- > Extremely wide selection in sizes, finish and grip designs for specialists and non-specialists alike
- > Model JC = chrome-plated, 2-component handle protectors
- > Model TL = black with blue dipped handle protector
- > Available individually or in practical sets, in the module or in assortments



On request also available with SB pack (plastic hanging clip, Euro perforation for self-service display wallboard)

VDE TOOLS

> 570

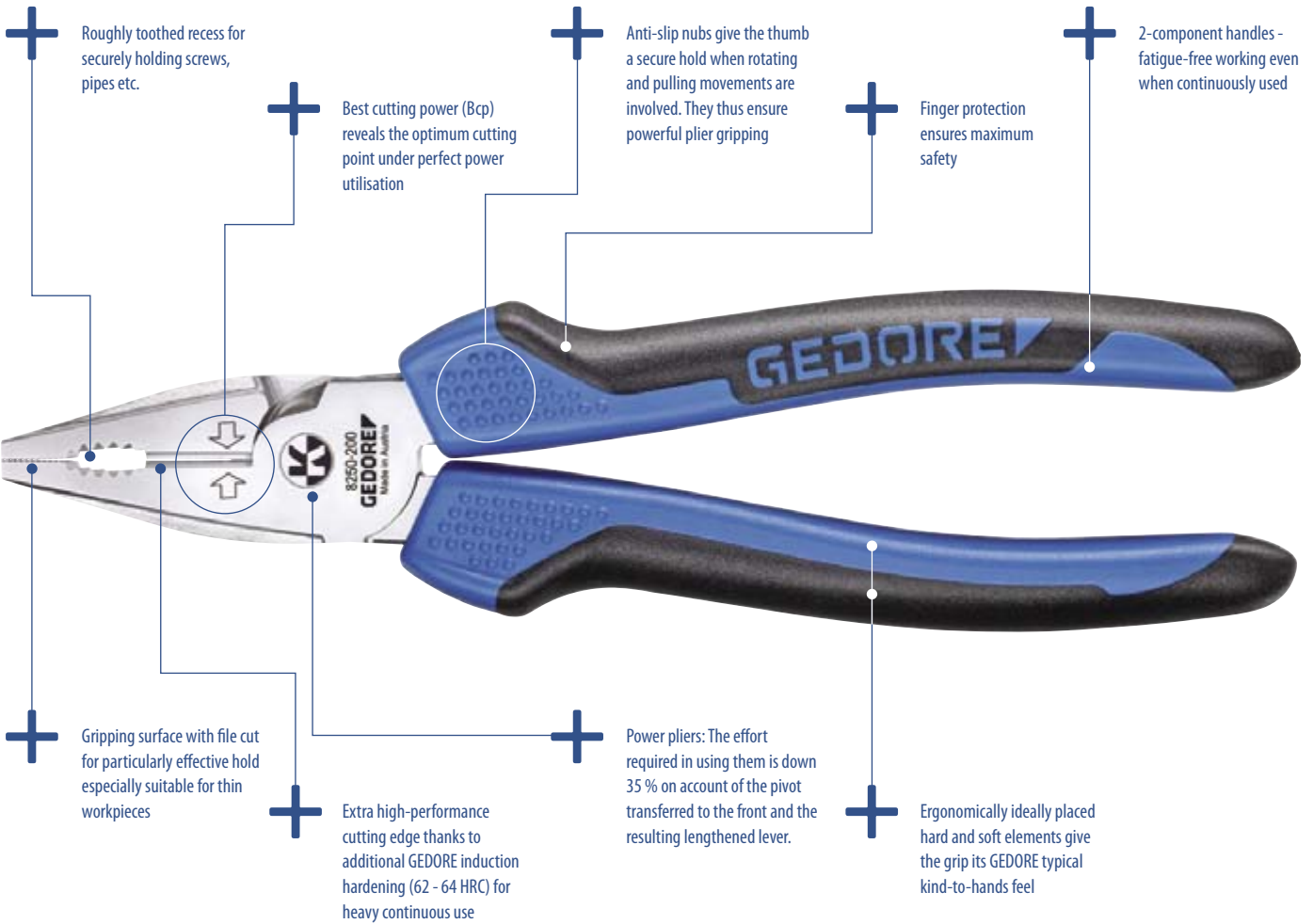


# POWER PLIERS



Maximum cutting performance yet with a low level of effort expended thanks to an optimum interaction of cutting geometry, eccentric rivet bearing and ergonomic handle design.

The pliers are hot-forged from high-grade GEDORE special steel and then oil-hardened.



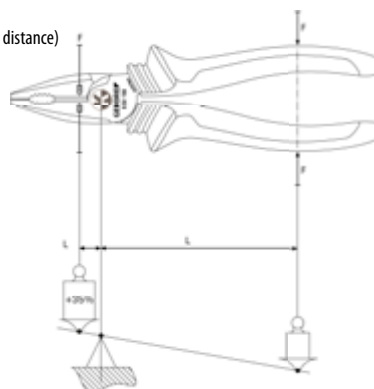
## Force equation

$$\Sigma M \text{ (rivet)} = 0 = F(\text{hand}) \times L(\text{hand}) = F(\text{cutting edges}) \times L(\text{optimum cutting edge distance})$$

The eccentric pivot point ensures that the hand torque (force x path) applied over the rivet (fulcrum) is effectively and positively translated into cutting force.

$$F(\text{cutting edges}) = \frac{F(\text{hand}) \times L(\text{hand})}{L(\text{optimum cutting edge distance})}$$

The greatly improved effective length of this design achieves increased cutting force. Optimised lever ratios bring a 35% reduction in the effort required.



## Working principle POWER PLIERS

"K" identifies the GEDORE Power Pliers range, offering increased cutting and gripping force with up to 35% less effort.

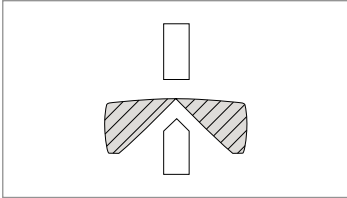




## Cutting forms as per DIN ISO 5742

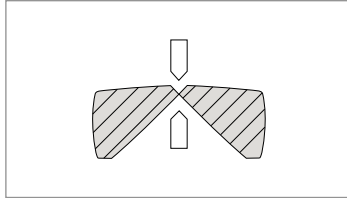
### Cutting without cutting bevel (without chamfer)

For flush cutting of plastics.



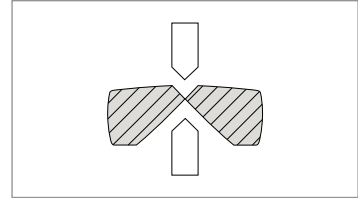
### Cutting with a slight cutting bevel (small degree of chamfer)

Especially for the electronics field.



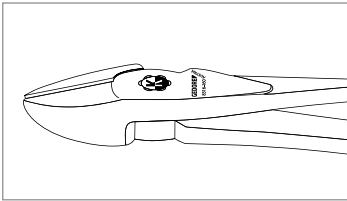
### Cutting with cutting bevel (with chamfer)

Especially for steel wire, piano wire and springs. The large chamfer ensures a long service life of the cutting edge.

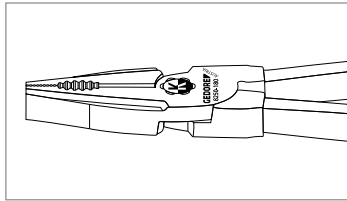


## Joint types

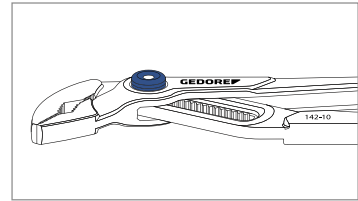
### lap joint



### inserted joint

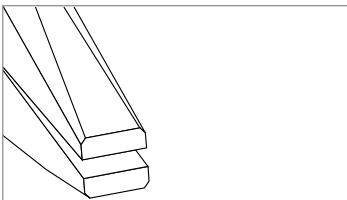


### safety-box joint

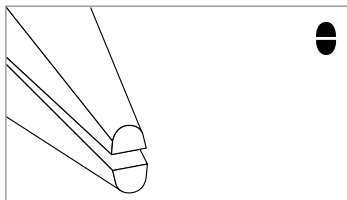


## Basic jaw forms

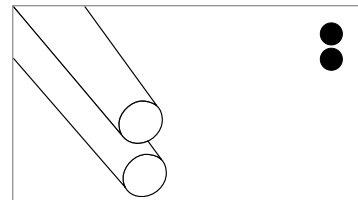
### flat jaws









### flat/round jaws



### round jaws



## Wire categories to DIN ISO 5744

Material examples	Wire hardness	Tensile strength N/mm <sup>2</sup>	
 Nail, wire nail, bronze wire	soft	approx. 600	
 Wire rope fibre, steel wire	medium-hard	approx. 1600	
 Spring-steel wire	hard/Piano wire	approx. 2300	

### SAFETY NOTES PLIERS

>642

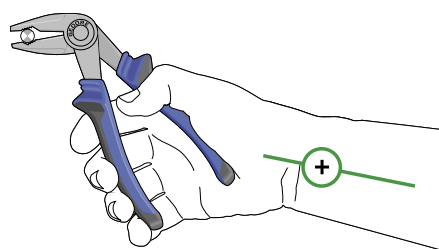


# Combination Pliers

## 8248 ANGLED COMBINATION PLIERS

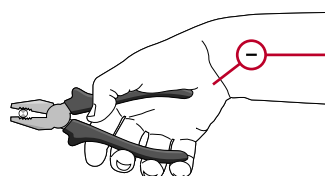
- > For the toughest of demands
- > Optimum utilisation of the power in one's hands
- > No forced positioning of the hand
- > Fatigue-free working over a long period made possible
- > High-grade GEDORE special hardened and tempered steel for high cutting performance and a long service life

- > Induction-hardened precision cutting edges, hardness 63 - 65 HRC
- > For all wires including piano wire, 1.6 mm
- > Hot-drop forged
- > JC = chrome-plated, with 2-component handles
- > TL = steel-grey, with blue dipped non-slip handles



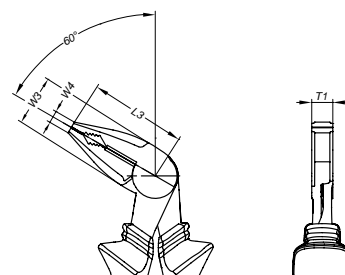
**+**  
A pliers head angled at 60° goes easy on your joints and tendons. And you keep the workpiece in view at the same time

### TRADITIONAL COMBINATION PLIERS



Traditional gripping faces with standard gripping on pipes and screws

**+**  
Specially offset teeth in the grip surfaces for best-possible gripping on pipes and screws



## 8248 ANGLED COMBINATION PLIERS

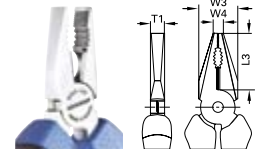
L	L <sub>2</sub>	W <sub>2</sub>	W <sub>1</sub>	T <sub>1</sub>		Code	No.
165	46	24	6	10	0.245	2276585	8248-160 JC
165	46	24	6	10	0.220	2276763	8248-160 TL



# 8200 COMBINATION PLIERS

- > Practical small combination pliers especially for confined spaces or as car-boot tool
- > For flat and round material
- > For medium-hard wire, 1.6 mm

- > Similar to DIN ISO 5746
- > GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- > JC = chrome-plated, with 2-component handles



L	L <sub>3</sub>	W <sub>3</sub>	W <sub>4</sub>	T <sub>1</sub>		Code	No.
125	25	16	3.2	7.6	0.117	6730480	8200-125 JC

# 8210 COMBINATION PLIERS

German pattern

- > Acc. to DIN ISO 5746
- > Reinforced type, for tough continuous operations
- > Lay-on cutter box
- > For flat and round material
- > For medium-hard wire, 1.6 mm
- > Induction-hardened precision cutting edges, hardness 62 - 64 HRC
- > GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- > JC = chrome-plated, with 2-component handles
- > TL = steel-grey, with blue dipped non-slip handles

# 8245 COMBINATION PLIERS

Euro pattern

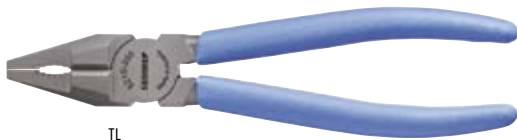
- > Acc. to DIN ISO 5746
- > Universal model with slimline head, ideal for confined spaces
- > Induction-hardened precision cutting edges, hardness 62 - 64 HRC
- > For flat and round material
- > For medium-hard wire, 1.6 mm
- > GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- > JC = chrome-plated, with 2-component handles
- > TL = steel-grey, with blue dipped non-slip handles



JC



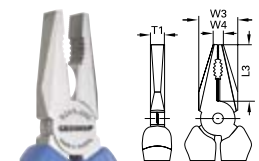
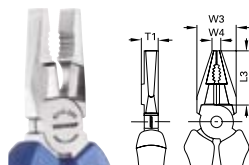
JC



TL



TL



L	L <sub>3</sub>	W <sub>3</sub>	W <sub>4</sub>	T <sub>1</sub>		Code	No.
160	34	23.0	5.8	10.8	0.217	6731100	8210-160 JC
160	34	23.0	5.8	10.8	0.173	6711340	8210-160 TL
180	38	27.0	6.4	11.8	0.284	6731530	8210-180 JC
180	38	27.0	6.4	11.8	0.227	6711420	8210-180 TL
200	42	29.5	7.4	12.5	0.356	6732180	8210-200 JC
200	42	29.5	7.4	12.5	0.296	6711850	8210-200 TL

L	L <sub>3</sub>	W <sub>3</sub>	W <sub>4</sub>	T <sub>1</sub>		Code	No.
160	34	23.0	5.8	8.8	0.218	6733070	8245-160 JC
160	34	23.0	5.8	8.8	0.174	6730050	8245-160 TL
180	38	27.0	6.4	9.8	0.280	6733150	8245-180 JC
180	38	27.0	6.4	9.8	0.230	6730210	8245-180 TL
200	42	29.5	7.4	10.5	0.363	6733230	8245-200 JC
200	42	29.5	7.4	10.5	0.297	6730720	8245-200 TL



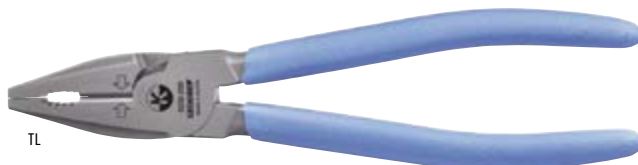
# 8250 POWER COMBINATION PLIERS

- > Acc. to DIN ISO 5746
- > For heavy continuous use
- > Good lever action for easy cutting
- > For flat and round material

- > To cut all wire types including piano wire, 1.6 mm
- > GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- > JC = chrome-plated, with 2-component handles
- > TL = steel-grey, with blue dipped non-slip handles



JC



TL



> Power pliers: The effort required in using them is down 35 % on account of the pivot transferred to the front and the resulting lengthened lever.

Inductively hardened cutting edges (62 - 64 HRC) ensure constant cutting power over a long time span.

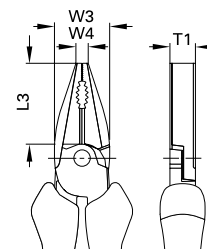
High-grade 2-component handles with finger protection enable work to be done ergonomically and to the exclusion of tiredness



Gripping surface with file-cut for a particularly effective hold

Roughly toothed gripping surfaces for securely holding screws, pipes etc.

Maximum cutting performance yet with a low level of effort expended thanks to an optimum interaction of cutting geometry, eccentric rivet bearing and ergonomic handle design.



## 8250 POWER COMBINATION PLIERS

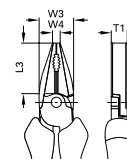
L	L <sub>2</sub>	W <sub>3</sub>	W <sub>4</sub>	T <sub>1</sub>		Code	No.
160	35.0	22.8	5.8	10.4	0.225	1429566	8250-160 JC
160	35.0	22.8	5.8	10.4	0.180	1429574	8250-160 TL
180	38.5	25.6	6.5	11.0	0.282	6707070	8250-180 JC
180	38.5	25.6	6.5	11.0	0.227	6707660	8250-180 TL
200	39.5	27.0	6.5	12.4	0.360	6707310	8250-200 JC
200	39.5	27.0	6.5	12.4	0.288	6707740	8250-200 TL

## 8250-225 TL POWER COMBINATION PLIERS

**NEW**

> Convex handle shape for a high force build-up\*

\* Crowned surfaces/handles - i.e. which are hardly rounded - prevent unfavourable, punctual peak forces. As a result, the force is evenly spread across your hand.



L	L <sub>2</sub>	W <sub>3</sub>	W <sub>4</sub>	T <sub>1</sub>		Code	No.
225	42.2	27.7	6.5	13.0	0.351	6708040	8250-225 TL

VDE 8250 / VDE 8250 H

>582



1500 CT1-142

>111

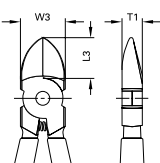
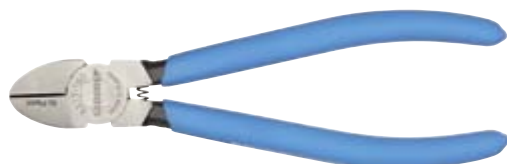


## Side Cutters / End Cutting Nippers

8313  
SIDE CUTTER

for plastic

- > Without cutting edge bevel, for flush cutting of plastic parts or similar soft materials
- > Black, cutting faces flat-ground, with compression spring for automatic opening
- > With blue dipped non-slip handles (TL)

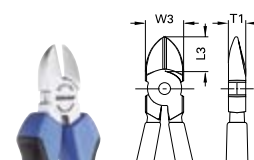
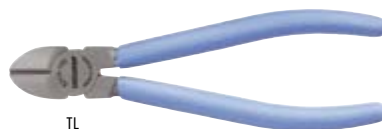


L	L <sub>3</sub>	W <sub>3</sub>	T <sub>1</sub>		Code	No.
125	16.0	17.0	8.5	0.116	6745910	8313-125 TL
140	18.5	18.5	9.5	0.131	6746050	8313-140 TL
160	19.0	22.0	10.0	0.184	6746130	8313-160 TL

8314  
SIDE CUTTER

Swedish pattern

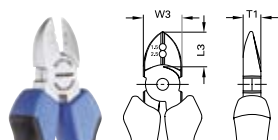
- > Acc. to DIN ISO 5749
- > With slender head - ideal for confined spaces
- > Induction-hardened precision cutting edges, hardness 63 - 65 HRC
- > For medium-hard wire, 1.6 mm
- > GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- > JC = chrome-plated, with 2-component handles
- > TL = steel-grey, with blue dipped non-slip handles



L	L <sub>3</sub>	W <sub>3</sub>	T <sub>1</sub>	Ø		Code	No.
125	16.0	17.0	8.5	1,6	0.146	6742300	8314-125 JC
125	16.0	17.0	8.5	1,6	0.107	6740870	8314-125 TL
140	18.5	18.5	9.5	1,6	0.176	6742730	8314-140 JC
140	18.5	18.5	9.5	1,6	0.129	6740950	8314-140 TL
160	19.0	22.0	10.0	1,6	0.230	6743380	8314-160 JC
160	19.0	22.0	10.0	1,6	0.173	6741090	8314-160 TL

8315  
ELECTRICIANS' SIDE CUTTER

- > Double-function electricians' side cutters: for cutting and stripping wire
- > Stripping notches for single- and multi-core wire, 1.5 mm<sup>2</sup> and 2.5 mm<sup>2</sup> conductor cross-section
- > Induction-hardened precision cutting edges, hardness 61 - 63 HRC
- > GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- > JC = chrome-plated, with 2-component handles

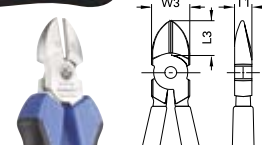


L	L <sub>3</sub>	W <sub>3</sub>	T <sub>1</sub>	mm <sup>2</sup>		Code	No.
160	19	22	10	1,5 / 2,5	0.235	1396722	8315-160 JC

8314-180  
POWER SIDE CUTTER

Swedish pattern

- > Convex handle shape for a high force build-up\*
- > Acc. to DIN ISO 5749
- > With slender head - ideal for confined spaces
- > Induction-hardened precision cutting edges, hardness 63 - 65 HRC
- > For hard wire/piano wire
- > Max. cutting capacity Ø 1.6 - 2.0 mm
- > GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- > JC = chrome-plated, with 2-component handles
- > TL = steel-grey, with blue dipped non-slip handles
- \* Crowned surfaces/handles - i.e. which are hardly rounded - prevent unfavourable, punctual peak forces. As a result, the force is evenly spread across your hand.



L	L <sub>3</sub>	W <sub>3</sub>	T <sub>1</sub>	Ø		Code	No.
185	25.0	26.0	11.0	1,6	0.300	2910934	8314-180 JC
185	25.0	26.0	11.0	1,6	0.243	2910926	8314-180 TL



- > Power pliers: The effort required in using them is down 35 % on account of the pivot transferred to the front and the resulting lengthened lever.
- > High-grade 2-component handles with finger protection enable work to be done ergonomically and to the exclusion of tiredness



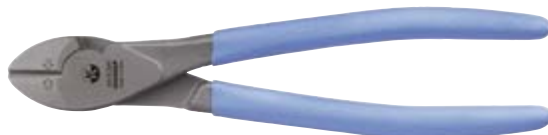
# 8316 POWER SIDE CUTTER

- > Acc. to DIN ISO 5749
- > Good lever action for easy cutting
- > For hard wire/piano wire
- > Max. cutting capacity  $\varnothing$  1.4 - 2.0 mm

- > GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- > JC = chrome-plated, with 2-component handles
- > TL = steel-grey, with blue dipped non-slip handles



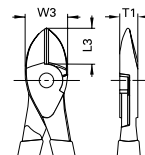
JC



TL

Inductively hardened cutting edges (63 - 65 HRC) ensure constant cutting power over a long time span.

Maximum cutting performance yet with a low level of effort expended thanks to an optimum interaction of cutting geometry, eccentric rivet bearing and ergonomic handle design.



## 8316 POWER SIDE CUTTER

American pattern

L	L <sub>2</sub>	W <sub>3</sub>	T <sub>1</sub>	∅	kg	Code	No.
140	17.0	22.0	9.5	1,4	0.175	6744190	8316-140 JC
140	17.0	22.0	9.5	1,4	0.146	6711930	8316-140 TL
160	19.0	24.5	10.0	1,6	0.236	6744510	8316-160 JC
160	19.0	24.5	10.0	1,6	0.195	6712070	8316-160 TL

L	L <sub>2</sub>	W <sub>3</sub>	T <sub>1</sub>	∅	kg	Code	No.
180	22.6	26.0	11.0	1,8	0.265	1439588	8316-180 JC
180	22.6	26.0	11.0	1,8	0.225	1439596	8316-180 TL
200	22.0	28.0	11.0	2,0	0.340	6745080	8316-200 JC
200	22.0	28.0	11.0	2,0	0.270	6712150	8316-200 TL

VDE 8316 / VDE 8316 H >584

S 8303 JC >422

## 8318

### LEVER-ACTION SIDE CUTTER

- > For hard wire/piano wire 1.6 mm
- > Double-jointed for maximum cutting performance
- > Head and joint made from special steel, head gun-metal finished
- > Handles chrome-plated and PVC coated



Ø	↳ mm ↳	↳"inch"↳	⚖️ kg	Code	No.
1,6	160	6.1/2	0.213	6745590	8318-160 TL

## 8370

### LEVER-ACTION END CUTTING NIPPER

- > Acc. to DIN ISO 5748
- > For hard wire/piano wire - values see table
- > Double-lever mechanism for maximum cutting performance
- > C65 tool steel, fully forged
- > GEDORE blue varnished
- \* not standardised

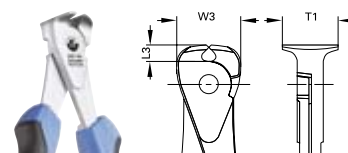
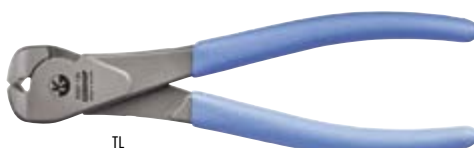


Ø	↳ mm ↳	↳"inch"↳	⚖️ kg	Code	No.
2	180	7	0.460	6750830	8370-180
2	210	8.1/2	0.610	6751050	8370-210
2,5	*	235	9.1/4	6751210	8370-235

## 8367

### END CUTTING NIPPER POWER

- > Acc. to DIN ISO 5748
- > Good lever action for easy cutting
- > Induction-hardened precision cutting edges, hardness 63 - 65 HRC
- > For hard wire/piano wire 1.6 mm
- > GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- > JC = chrome-plated, with 2-component handles
- > TL = steel-grey, with blue dipped non-slip handles

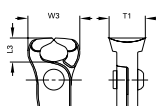


L	L <sub>2</sub>	W <sub>2</sub>	T <sub>1</sub>	Ø	⚖️ kg	Code	No.
160	6.9	27	23.5	1,6	0.254	6749150	8367-160 JC
160	6.9	27	23.5	1,6	0.242	6712230	8367-160 TL

## 8380

### TOWER PINCER

- > Heavy-duty wire braid and mesh-cutting pincers
- > Acc. to DIN ISO 9242, Form A
- > Induction-hardened precision cutting edges, hardness 61 - 63 HRC
- > For medium-hard wire, 1.6 mm
- > Heads ground, steel-grey, with blue dipped non-slip handles (TL)
- > Geometrically optimised head and handle areas for ergonomic use
- > In high-quality tool steel

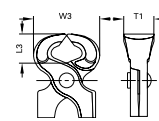


L	L <sub>2</sub>	W <sub>2</sub>	T <sub>1</sub>	⚖️ kg	Code	No.
230	16	31	22	0.358	6752020	8380-225 TL
250	16	35	25	0.423	6752100	8380-250 TL
280	16	35	25	0.541	6752290	8380-280 TL

## 8381

### PINCER

- > Standard heavy-duty pincers
- > Acc. to DIN ISO 9243, Form A
- > Induction-hardened precision cutting edges, hardness 61 - 63 HRC
- > Heads ground, steel-grey, with blue dipped non-slip handles (TL)
- > In high-quality tool steel



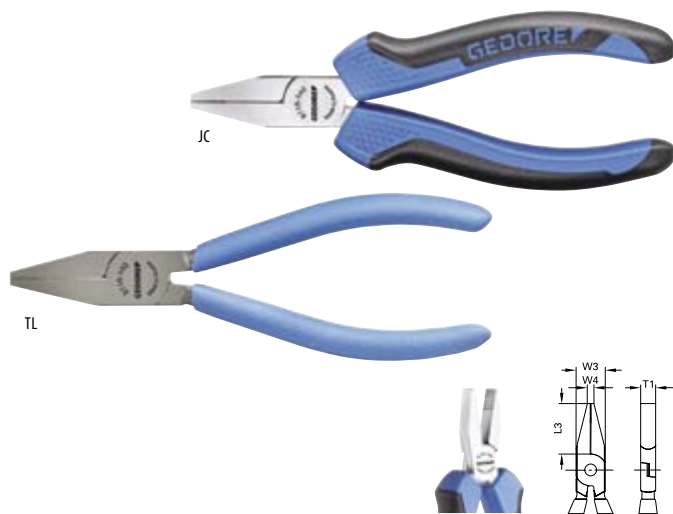
L	L <sub>2</sub>	W <sub>2</sub>	T <sub>1</sub>	⚖️ kg	Code	No.
160	21.0	48	20	0.258	6752370	8381-160 TL
180	21.0	50	23	0.362	6751800	8381-180 TL
200	23.5	55	26	0.442	6751990	8381-200 TL
225	23.5	55	25	0.514	6752450	8381-225 TL
250	23.5	58	27	0.586	6752530	8381-250 TL

## Flat Nose / Round Nose Pliers

### 8110 FLAT NOSE PLIERS

without cutting edge, serrated

- > Acc. to DIN ISO 5745
- > Short jaws, serrated gripping faces
- > For holding and bending
- > GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- > JC = chrome-plated, with 2-component handles
- > TL = steel-grey, with blue dipped non-slip handles



L	L <sub>3</sub>	W <sub>3</sub>	W <sub>4</sub>	T <sub>1</sub>		Code	No.
140	28.5	16.5	3.6	8.5	0.154	6711690	8110-140 JC
140	28.5	16.5	3.6	8.5	0.118	6711500	8110-140 TL

### 8120 FLAT NOSE PLIERS

without cutting edge, serrated

- > Acc. to DIN ISO 5745
- > Long jaws, serrated gripping faces
- > For holding and bending
- > GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- > JC = chrome-plated, with 2-component handles
- > TL = steel-grey, with blue dipped non-slip handles

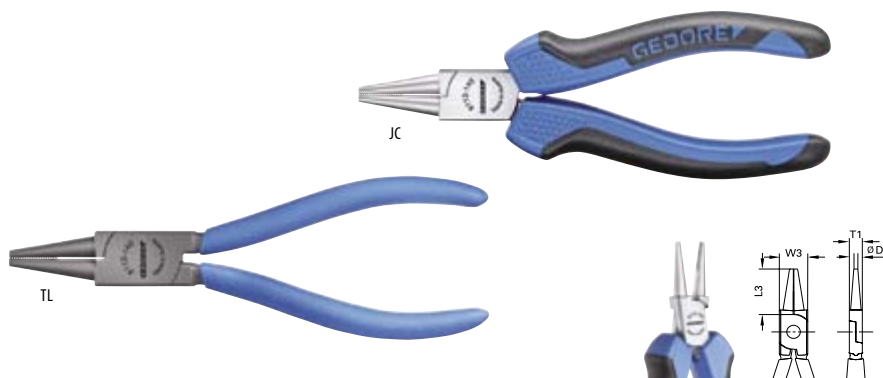


L	L <sub>3</sub>	W <sub>3</sub>	W <sub>4</sub>	T <sub>1</sub>		Code	No.
160	51	16.5	3.4	9	0.170	6715170	8120-160 JC
160	51	16.5	3.4	9	0.133	6710370	8120-160 TL

### 8112 ROUND NOSE PLIERS

serrated

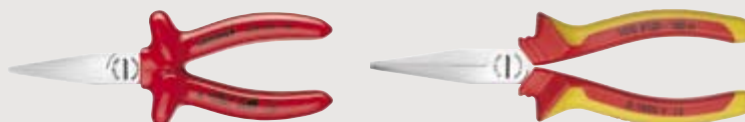
- > Similar to DIN ISO 5745
- > Short jaws, serrated gripping faces
- > For gripping and bending
- > GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- > JC = chrome-plated, with 2-component handles
- > TL = steel-grey, with blue dipped non-slip handles



L	L <sub>3</sub>	W <sub>3</sub>	D <sub>1</sub>	T <sub>1</sub>		Code	No.
140	29.0	17.0	2.5	8.5	0.146	6713390	8112-140 JC
140	28.5	16.5	2.5	8.5	0.110	6713200	8112-140 TL

VDE 8120 / VDE 8120 H

>585






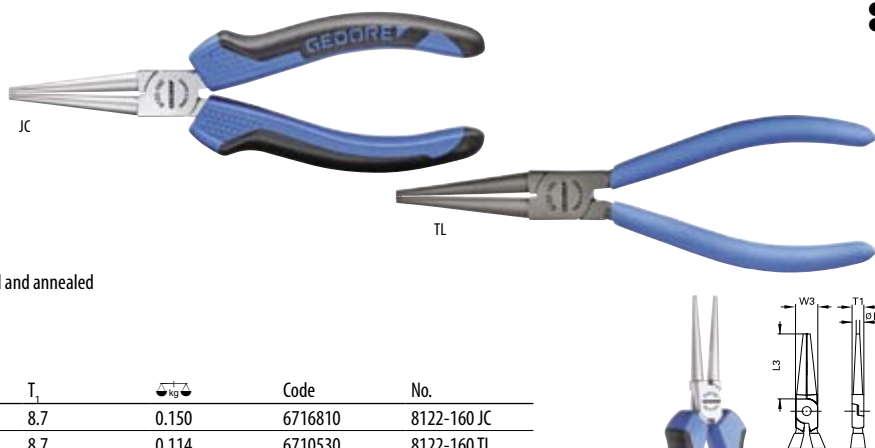
## 8122

### ROUND NOSE PLIERS

serrated

- > Acc. to DIN ISO 5745
- > Long jaws, serrated gripping faces
- > For gripping and bending
- > GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- > JC = chrome-plated, with 2-component handles
- > TL = steel-grey, with blue dipped non-slip handles

L	L <sub>3</sub>	W <sub>3</sub>	D <sub>1</sub>	T <sub>1</sub>		Code	No.
160	48	16.5	2.5	8.7	0.150	6716810	8122-160 JC
160	48	16.5	2.5	8.7	0.114	6710530	8122-160 TL




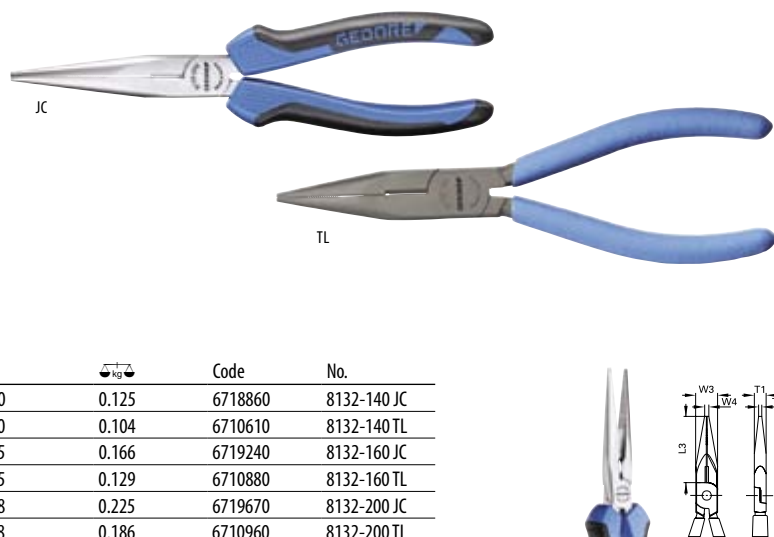
## 8132

### TELEPHONE PLIERS

with cutting edge, serrated, straight pattern

- > Acc. to DIN ISO 5745
- > Long, flat-round jaws, straight gripping faces, serrated
- > For holding, gripping, bending and cutting
- > Induction-hardened precision cutting edges, hardness 61 - 63 HRC
- > GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- > JC = chrome-plated, with 2-component handles
- > TL = steel-grey, with blue dipped non-slip handles

L	L <sub>3</sub>	W <sub>3</sub>	W <sub>4</sub>	T <sub>1</sub>	T <sub>2</sub>		Code	No.
140	42.0	15.0	2.5	7.8	2.0	0.125	6718860	8132-140 JC
140	42.0	15.0	2.5	7.8	2.0	0.104	6710610	8132-140 TL
160	50.0	16.5	3.2	9.0	2.5	0.166	6719240	8132-160 JC
160	50.0	16.5	3.2	9.0	2.5	0.129	6710880	8132-160 TL
200	75.7	18.5	3.7	9.5	2.8	0.225	6719670	8132-200 JC
200	75.7	18.5	3.7	9.5	2.8	0.186	6710960	8132-200 TL




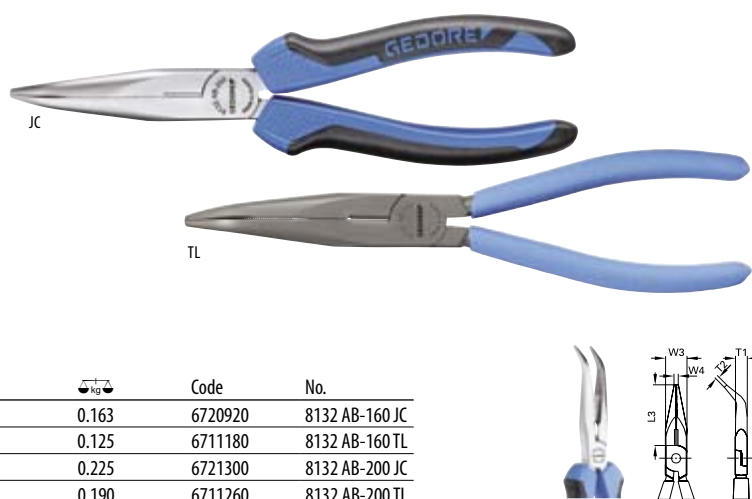
## 8132 AB

### BENT NOSE TELEPHONE PLIERS

with cutting edge, serrated, angled pattern

- > Similar to DIN ISO 5745
- > Long, flat-round jaws, angled gripping surfaces, serrated
- > 45° angled tips make gripping round the corner possible
- > Induction-hardened precision cutting edges, hardness 61 - 63 HRC
- > GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- > JC = chrome-plated, with 2-component handles
- > TL = steel-grey, with blue dipped non-slip handles

L	L <sub>3</sub>	W <sub>3</sub>	W <sub>4</sub>	T <sub>1</sub>	T <sub>2</sub>		Code	No.
160	46.0	16.5	3.2	9.0	2.5	0.163	6720920	8132 AB-160 JC
160	46.0	16.5	3.2	9.0	2.5	0.125	6711180	8132 AB-160 TL
200	70.5	18.5	3.7	9.5	2.8	0.225	6721300	8132 AB-200 JC
200	70.5	18.5	3.7	9.5	2.8	0.190	6711260	8132 AB-200 TL



VDE 8122 / VDE 8122 H

>585



VDE 8132 / VDE 8132 H

>586



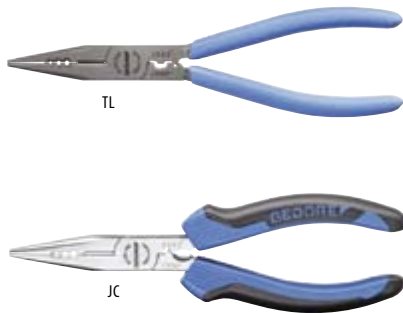
VDE 8132 AB / VDE 8132 AB H >586



# 8133 MULTIPLE PLIERS

- > Multifunctional pliers for the mechanical and electronic fields
- > Holding, cutting, insulation-stripping, crimping, squeezing
- > Flat-round jaws, straight gripping faces, serrated
- > For medium-hard wire, 1.6 mm
- > GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed

- > JC = chrome-plated, with 2-component handles
- > TL = steel-grey, with blue dipped non-slip handles



Stripping of wire sizes  
0.5/1.5/2.5 mm<sup>2</sup>

Crimping of conductor end-  
sleeves 0.5-2.5 mm<sup>2</sup>



## 8133 MULTIPLE PLIERS

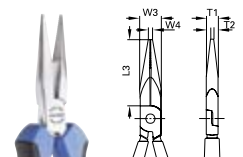
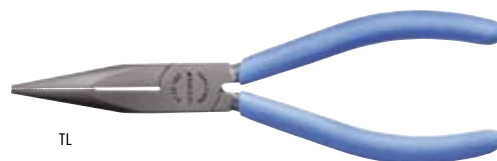
with cutting edge, serrated, straight pattern

↳ mm ▶	⚖️	Code	No.
180	0.180	6722110	8133-180 JC
200	0.200	2676079	8133-200 JC
180	0.160	1997394	8133-180 TL
200	0.180	2676087	8133-200 TL

## 8135 TELEPHONE PLIERS

without cutting edge, serrated, straight pattern

- > Acc. to DIN ISO 5745, straight pattern
- > Flat-round tapered jaws, cross-hatched gripping surfaces and fine-tipped nose
- > Also suitable as needle nose soldering pliers
- > GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- > JC = chrome-plated, with 2-component handles
- > TL = steel-grey, with blue dipped non-slip handles



L	L <sub>1</sub>	W <sub>3</sub>	W <sub>4</sub>	T <sub>1</sub>	T <sub>2</sub>	⚖️	Code	No.
140	42	15.0	2.5	7.8	2.0	0.108	6722460	8135-140 TL
160	50	16.5	3.2	9.0	2.5	0.166	6722540	8135-160 JC
160	50	16.5	3.2	9.0	2.5	0.142	6722620	8135-160 TL

## Mechanics Pliers

### 8136 MECHANICS PLIERS

without wire cutter, straight pattern

- > Acc. to DIN ISO 5745
- > Flat-round tapered jaws, cross-hatched gripping surfaces
- > For holding, gripping and bending
- > Fine-tipped nose, for safe work in confined spaces
- > GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed

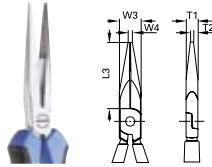
- > JC = chrome-plated, with 2-component handles
- > TL = steel-grey, with blue dipped non-slip handles



JC



TL



L	L <sub>2</sub>	W <sub>3</sub>	W <sub>4</sub>	T <sub>1</sub>	T <sub>2</sub>		Code	No.
200	75.7	18.5	3.7	9.5	2.8	0.241	6722700	8136-200 JC
200	75.7	18.5	3.7	9.5	2.8	0.201	6722890	8136-200 TL

### 8136 AB MECHANICS PLIERS

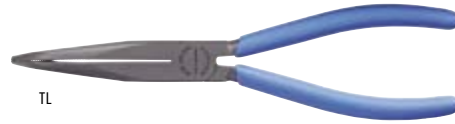
without wire cutter, angled pattern

- > Similar to DIN ISO 5745
- > Flat-round tapered jaws, cross-hatched gripping surfaces
- > 45° angled tips make gripping round the corner possible
- > Fine-tipped nose, for safe work in confined spaces
- > GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed

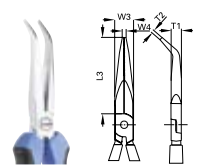
- > JC = chrome-plated, with 2-component handles
- > TL = steel-grey, with blue dipped non-slip handles



JC



TL

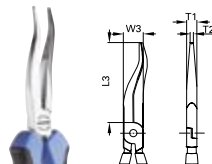


L	L <sub>2</sub>	W <sub>3</sub>	W <sub>4</sub>	T <sub>1</sub>	T <sub>2</sub>		Code	No.
200	70	18.5	3.7	9.5	2.8	0.239	6722970	8136 AB-200 JC
200	70	18.5	3.7	9.5	2.8	0.201	6723000	8136 AB-200 TL

### 8137 MECHANICS PLIERS

without wire cutter, offset pattern

- > Flat-round tapered jaws, cross-hatched gripping surfaces
- > Fine-tipped nose
- > Gently-curved jaws enable holding and gripping to be done in inaccessible places
- > GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- > JC = chrome-plated, with 2-component handles

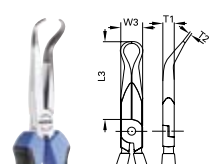


L	L <sub>2</sub>	W <sub>3</sub>	T <sub>1</sub>	T <sub>2</sub>		Code	No.
200	74	18.5	9.5	2.8	0.231	6723190	8137-200 JC

### 8138 MECHANICS PLIERS

without wire cutter, 30° angled

- > 30° angled flat-round tapered, hooked jaws, cross-hatched gripping surfaces 30°, fine-tipped nose
- > For safe gripping, positioning and loosening of round, oval and angular parts
- > Ideal for spark plug connectors and all kinds of hoses (e.g. radiator hoses)
- > GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- > JC = chrome-plated, with 2-component handles



L	L <sub>2</sub>	W <sub>3</sub>	T <sub>1</sub>	T <sub>2</sub>		Code	No.
200	68	18.5	9.5	2.8	0.234	6723350	8138-200 JC



## Cable cutter

8317

## BOWDEN CABLE CUTTER/WIRE ROPE CUTTER

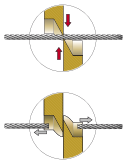


- > Crimping of bowden-cable sleeves and end-sleeves 1.5 mm and 2 mm
- > For cutting wire rope up to 2 mm diameter and bowden-cable sleeves up to 5 mm diameter as well as for medium-hard wire
- > With opening spring, transport lock and width adjustment
- > Induction-hardened cutting edges

- > Innovative GEDORE cutting form produces a precision cut
- > Low overall weight

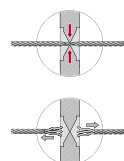


l-mm		Code	No.
170	0.150	2011638	8317-160 JC

GEDORE  
WIRE ROPE CUTTER

- > Shearing cut - the cutting plates slide past each other and in this way dissect the material.
- > The wire rope is cleanly cut and retains its circular cross-section. It does not fan out.

## BOLT CUTTER



- > Notch cut; the cutters press into the material and create a notch. The material is compacted and thus separated.
- > The wire rope is compressed and thus loses its circular cross-section at the cut. The wire rope fans out as a result.

**Splicing:**

- > The old seafaring ability to separate the rope into its individual strands so as to then braid them into a loop or lengthen the rope with another rope without knotting.

**Fanning out:**

- > Fanning out - that is separating off into individual strands - is not wanted when cutting wire ropes. It is a very laborious business to splice wire ropes. That is why more up-to-date ways are available to incorporate loops in wire ropes. However, they require a smooth cut without any spliced strands.

8320 JC  
WIRE ROPE CUTTER**Execution:**

- > Easy-to-change cutting plates
- > Cutting plates of powder metallurgical high-speed steel (HSS). Manufactured in the MIM process (Metal Injection Molding)
- > Extremely high durability compared to traditional wire rope cutters
- > Extremely soft shearing cut reliably prevents the wire rope from fanning out
- > Tip: Can be operated with one hand of an average size up to a 5 mm Ø. Therefore optimally suited as shears in an emergency at sea.

**Jaws/Cutting edges:**

- > Specially arched cutting edges
- > Easy to replace cutting plates if worn
- > Hardness 62 - 65 HRC
- > Low force needed due to the optimum cutting-edge geometry
- > Two integrated press profiles for Bowden cable terminal sleeves and cable end sleeves

**Cutting performance:**

- > Wire ropes up to 1800 N/mm<sup>2</sup> with max. 6 mm Ø
- > (e.g. stainless steel wire ropes, wire ropes with steel and textile cores, Bowden cables, shears)
- > Wire up to 750 N/mm<sup>2</sup> with max. 4 mm Ø
- > (e.g. nails/wire nails, screws, bolts, ceiling banners)
- > Single- and multi-core copper and aluminium cables with max. 6 mm Ø

**Joint:**

- > Adjustable joint for precise cutting plate guidance
- > Latch to prevent unwanted opening

**Handles:**

- > JC = with 2-component handles

**Material/Finish:**

- > Plier body hot drop-forged
- > Chrome-plated



l-mm		Code	No.
200	0.480	2788799	8320-200 JC

E-8320  
SET OF SPARES FOR WIRE ROPE CUTTER

- > Consisting of: 2 cutting plates, 2 screws, 1 TORX® cranked socket key

Code	No.
2830779	E-8320-200

## Cable Shears

**NEW**

### 8090 CABLE SHEARS

- > For cutting single, multiple and fine-wire copper and aluminium cables up to Ø 15 mm / 50 mm<sup>2</sup>
- > An easy precision-type cut
- > One-handed operation
- > No cable squeezing or deformation
- > Not suitable for steel wire, wire rope and hard-drawn copper wire
- > Opening spring for fatigue-free working
- > Cutting edges additionally inductively hardened
- > Precision ground for optimum action, new cutting-edge geometry
- > Adjustable screw joint with finger protection
- > Special hardened and tempered steel, forged, gun-metal finish, with dipped handle grips



mm <sup>2</sup>	Ø	↳ mm ▶	↳ "inch ▶	⚖️ kg	Code	No.
50	15	170	6.3/4	0.210	2959720	8090-170 TL

### 8092 CABLE SHEARS

- > Max. cutting capacity Ø 10 mm<sup>2</sup>
- > For cutting multi-core copper and aluminium cables up to Ø 10 mm
- > Precision ground for optimum action, new cutting-edge geometry
- > Not suitable for steel wire and hard copper
- > Hardness 55 HRC
- > Special hardened and tempered steel, forged, ground, with dipped handle grips



mm <sup>2</sup>	Ø	↳ mm ▶	↳ "inch ▶	⚖️ kg	Code	No.
10/50	10	160	6.1/2	0.180	2878356	8092-160 TL

### 8093 CABLE SHEARS

- > For cutting multi-core copper and aluminium cables up to Ø 27 mm
- > Not suitable for wire ropes and steel wire
- > New cutting-edge geometry for a clean, smooth cut
- > Optimum lever action requires less effort
- > Compact design, low weight
- > Cutter head made from forged special tool steel
- > High-strength tubular aluminium handles, powder-enamelled, with rubber grips



Ø	mm <sup>2</sup>	↳ mm ▶	↳ "inch ▶	⚖️ kg	Code	No.
27	150	505	20	1.056	6724830	8093

### 8094 CABLE SHEARS

- > For cutting multi-core copper and aluminium cables up to Ø 20 mm
- > When using first and final cuts, the diameter increases to Ø 25 mm
- > The handle width remains within the range of ergonomic single-hand operation
- > First cut: Use the front blade to cut the cable sheath
- > Final cut: Place the cable in the back blade and separate the wire(s)
- > Cutting edges additionally inductively hardened
- > Precision ground for optimum action, new cutting-edge geometry
- > Adjustable screw joint with finger protection
- > Not suitable for steel wire or hard-drawn copper wire
- > Special hardened and tempered steel, forged, gun-metal finish, with dipped handle grips



Ø	mm <sup>2</sup>	↳ mm ▶	↳ "inch ▶	⚖️ kg	Code	No.
20	70	200	8.1/2	0.329	6724910	8094

VDE 8094

>580



### 8095 CABLE SHEARS

- > Shear's head in stainless steel, opens automatically
- > With impact-resistant plastic handles
- > With practical closure
- > For wire up to 10 mm<sup>2</sup>



mm <sup>2</sup>	↳ mm ▶	↳ "inch ▶	⚖️ kg	Code	No.
10	160	6.1/2	0.134	6707820	8095-160



## Stripping Pliers

### 8097 STRIPPING PLIERS

automatic

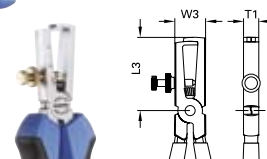
- > With V-shaped cutting knife
- > For stripping single-strand conductors 0.2 - 6.0 mm<sup>2</sup>
- > Adjustable stripping length
- > With wire cutter up to 2 mm



mm	inch	mm <sup>2</sup>	kg	Code	No.
200	8	0,2-6	0.193	6702940	8097

### 8098 STRIPPING PLIERS

- > Opens automatically, with spring and adjusting screw
- > V-shaped cutting jaws for stripping the plastic insulation of single- and multi-core conductors
- > Adjuster and counter screws for easy setting to the desired wire or flex diameter
- > For 0.8 - 6.0 mm wires<sup>2</sup>
- > GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- > JC = chrome-plated, with 2-component handles



L	L <sub>1</sub>	W <sub>1</sub>	T <sub>1</sub>	mm <sup>2</sup>	kg	Code	No.
160	43.5	18.5	8.5	0,8-6	0.198	6708630	8098-160 JC
160	43.5	18.5	8.5	0,8-6	0.153	6710020	8098-160 TL

### 8099 STRIPPING PLIERS STRIP-FIX

- > Self-adjusting, for wires 0.5 - 5.0 mm<sup>2</sup>
- > V-shaped cutting jaws for stripping the plastic insulation of single and multi-core conductors
- > GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- > JC = chrome-plated, with 2-component handles

> Pair of spare knives no. E-8099



mm	inch	mm <sup>2</sup>	kg	Code	No.
160	6.1/2	0,5-5	0.217	6709520	8099-160 JC

### E-8099 PAIR OF SPARE KNIVES

for stripping pliers STRIP-FIX

kg	Code	No.
0.012	5709580	E-8099

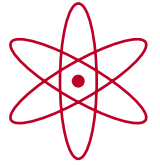
VDE 8099 / VDE 8099 H

>581

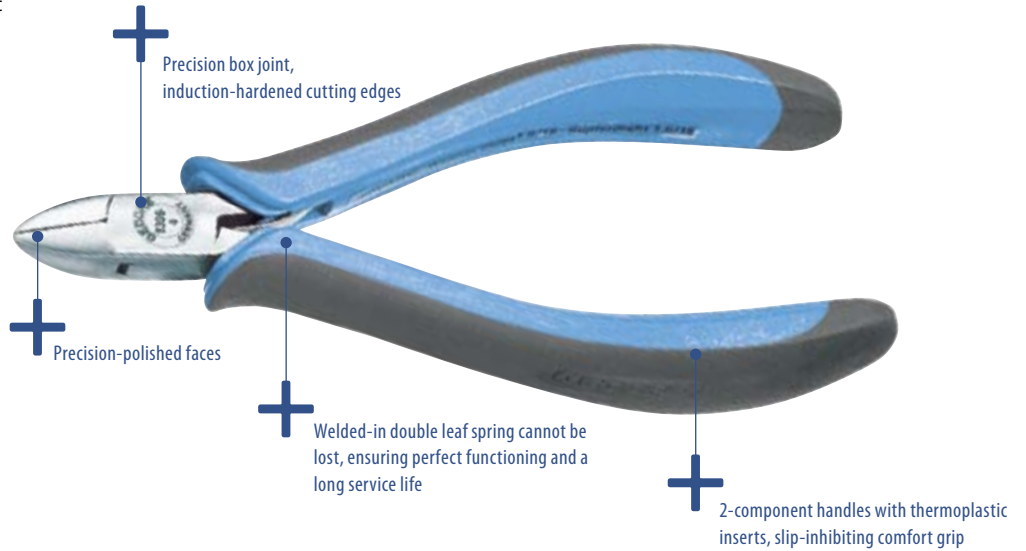


## Electronic Pliers

# ELECTRONIC PLIERS



- > For bending, straightening and assembly work in the electronic and precision mechanical sector
- > GEDORE ESD-electronic-pliers dissipate electrostatic energy in a slow, controlled manner
- > Surfaces: Ground-steel - no flaking chrome parts to cause faults in electronic circuitry



ESD = electrostatic discharge protection  
BL [JL] = Jaw length  
SL [CL] = Cutting edge length



## ATTENTION! SAFETY NOTE!

- > Due to the conductivity of the ESD 2-component handles, these tools must not be brought into contact with live conductors passing a voltage sufficient to cause an electric shock.



## CARE REGULATION

- > For safety reasons ESD pliers are not coated with chrome.
- > The surface of the pliers is of polished steel and therefore is at the mercy of corrosion.
- > As such, the surfaces of these pliers must be cleaned with a cloth at least 1x a day either during or after the work.
- > We would recommend our 8305 MT microfibre cloth

## S 8305 ESD ELECTRONIC PLIERS SET

6 pieces

- > Dimensions: L 230 x W 165 x H 55 mm
- > With microfibre cloth 8305 MT



Contents

8305-9  
8306-6  
8307-3

8307-4  
8306-1

8308-1  
E-8305 MT

0,680

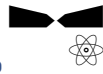
Code  
1955551

No.  
S 8305 ESD

## Electronic side cutters

Induction-hardened precision cutting edges, 61-63 HRC

### 8306-1 ELECTRONIC SIDE CUTTER

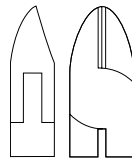


- > Oval head, with bevel
- > Induction-hardened precision cutting edges, 61 - 63 HRC

**Cutting values:**

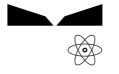
- > Hard wire: 0.4 mm/AWG 26
- > Soft steel: 1.0 mm/AWG 18
- > Copper wire: 1.5 mm/AWG 15

- > ESD = electrostatic discharge protection



CL	mm	kg	Code	No.
12	125	0.080	6726450	8306-1

### 8306-2 MINIATURE ELECTRONIC SIDE CUTTER

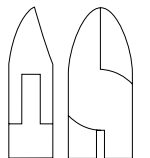
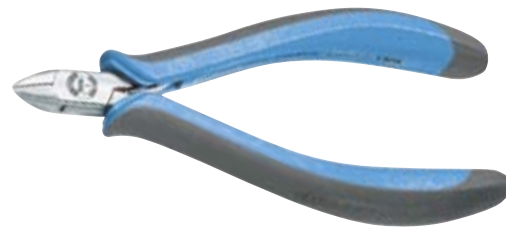


- > Short, oval head, with fine bevel
- > Induction-hardened precision cutting edges, 61 - 63 HRC

**Cutting values:**

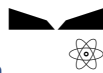
- > Soft steel: 0.6 mm/AWG 22
- > Copper wire: 1.2 mm/AWG 16

- > ESD = electrostatic discharge protection



CL	mm	kg	Code	No.
9	120	0.071	6726530	8306-2

### 8306-4 ELECTRONIC SIDE CUTTER

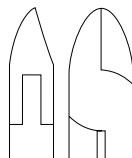


- > Oval head, with fine bevel
- > Induction-hardened precision cutting edges, 61 - 63 HRC

**Cutting values:**

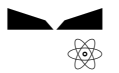
- > Soft steel: 1.0 mm/AWG 18
- > Copper wire: 1.5 mm/AWG 15

- > ESD = electrostatic discharge protection



CL	mm	kg	Code	No.
14	125	0.081	6727180	8306-4

### 8306-5 MINIATURE ELECTRONIC SIDE CUTTER

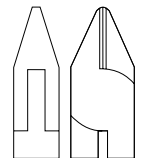


- > Pointed head, with fine bevel
- > Induction-hardened precision cutting edges, 61 - 63 HRC

**Cutting values:**

- > Hard wire: 0.4 mm/AWG 26
- > Soft steel: 1.0 mm/AWG 18
- > Copper wire: 1.2 mm/AWG 16

- > ESD = electrostatic discharge protection



CL	mm	kg	Code	No.
12	125	0.079	6727340	8306-5

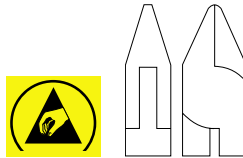


## 8306-6 MINIATURE ELECTRONIC SIDE CUTTER



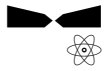
- > Short, head pointed and flattened (relief-milled), with fine bevel
- > Induction-hardened precision cutting edges, 61 - 63 HRC
- Cutting values:**
- > Soft steel: 0.6 mm/AWG 22
- > Copper wire: 1.0 mm/AWG 18

> ESD = electrostatic discharge protection



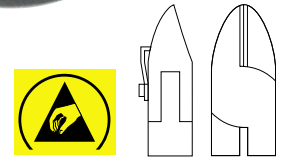
CL	l mm	kg	Code	No.
10	120	0.072	6727500	8306-6

## 8306-8 MINIATURE ELECTRONIC SIDE CUTTER



- > With wire gripper
- > Oval head, with bevel
- > Induction-hardened precision cutting edges, 61 - 63 HRC
- Cutting values:**
- > Hard wire: 0.4 mm/AWG 26
- > Soft steel: 1.0 mm/AWG 18
- > Copper wire: 1.5 mm/AWG 15

> ESD = electrostatic discharge protection

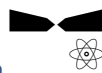


CL	l mm	kg	Code	No.
13	125	0.076	6727930	8306-8

### Electronic side cutter carbide

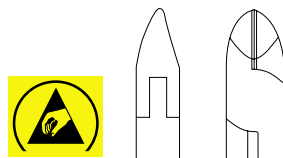
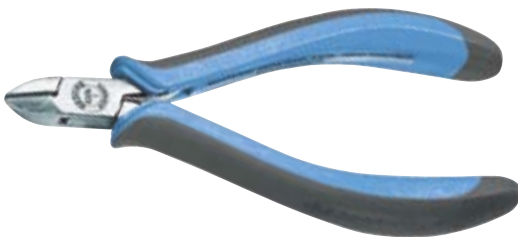
Tungsten-carbide cutting edges induction-hardened, 84-86 HRA

## 8306-7 ELECTRONIC SIDE CUTTER CARBIDE



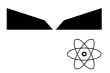
- > Oval head, with bevel
- > Tungsten-carbide cutting edges for an extremely long service life
- > Hardness 84 - 86 HRA
- Cutting values:**
- > Piano wire: 0.6 mm/AWG 22
- > Hard steel: 1.0 mm/AWG 18
- > Nickel wire: 1.2 mm/AWG 16

> ESD = electrostatic discharge protection

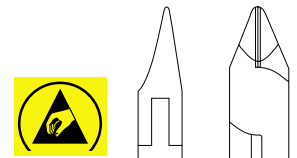


CL	l mm	kg	Code	No.
11	125	0.076	6727770	8306-7

## 8306-9 ELECTRONIC SIDE CUTTER CARBIDE



- > Tungsten-carbide cutting edges for an extremely long service life
- > Hardness 84 - 86 HRA
- > Pointed, slim head for work in confined spaces
- > Without bevel
- Cutting values:**
- > Piano wire: 0.3 mm
- > Hard steel: 0.5 mm
- > Nickel wire: 0.6 mm
- > Especially for cutting SMD components
- > With opening spring
- > ESD = electrostatic discharge protection



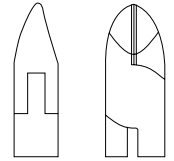
CL	l mm	kg	Code	No.
11	125	0.076	1743414	8306-9



## 8306-10

### ELECTRONIC SIDE CUTTER CARBIDE

- > Oval head, with special bevel, especially suitable for cutting glass fibre and Kevlar®
- > Tungsten-carbide cutting edges for an extremely long service life
- > Hardness 84 - 86 HRA
- > With opening spring
- > ESD = electrostatic discharge protection
- > Kevlar® is a registered trademark of the company DuPont



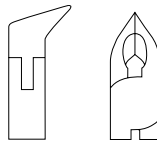
CL	↳ mm ↳	⚖️	Code	No.
11	125	0.077	1743422	8306-10

## Electronic diagonal cutters and end nippers

## 8308-1

### ELECTRONIC MINI DIAGONAL CUTTER

- > Pointed head, cutting edges angled 55°, with fine bevel
  - > For working in confined spaces
  - > Induction-hardened precision cutting edges, hardness 61 - 63 HRC
  - > With opening spring
  - > ESD = electrostatic discharge protection
- Cutting values:**
- > Hard steel: 0.4 mm/AWG 26
  - > Soft steel: 1.0 mm/AWG 18
  - > Copper wire: 1.2 mm/AWG 16

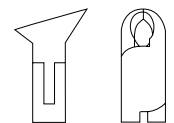


CL	↳ mm ↳	⚖️	Code	No.
12	125	0.076	1743600	8308-1

## 8308-3

### ELECTRONIC DIAGONAL CUTTER

- > Wide head and long cutting faces, with fine bevel
  - > Cutting edges angled 55°
  - > Head ground to a point on one side
  - > For working in confined spaces
  - > Induction-hardened precision cutting edges, hardness 61 - 63 HRC
- Cutting values:**
- > Hard steel: 0.4 mm/AWG 26
  - > Soft steel: 1.0 mm/AWG 18
  - > Copper wire: 1.5 mm/AWG 15
  - > With opening spring
  - > ESD = electrostatic discharge protection

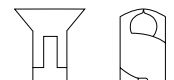


CL	↳ mm ↳	⚖️	Code	No.
15	135	0.094	1743627	8308-3

## 8308-4

### ELECTRONIC END CUTTING NIPPER

- > Wide head and long cutting faces, with fine bevel
  - > High cutting performance
  - > Induction-hardened precision cutting edges, hardness 61 - 63 HRC
  - > With opening spring
  - > ESD = electrostatic discharge protection
- Cutting values:**
- > Hard steel: 0.4 mm/AWG 26
  - > Soft steel: 1.0 mm/AWG 18
  - > Copper wire: 1.5 mm/AWG 15



CL	↳ mm ↳	⚖️	Code	No.
15	135	0.098	1743635	8308-4

## Needle nose electronic pliers

### 8305-2 NEEDLE NOSE ELECTRONIC PLIERS

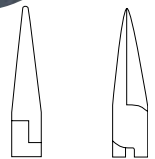
- > Extra long, half-round jaws, with file-cut surface
- > ESD = electrostatic discharge protection



JL	mm	kg	Code	No.
39	165	0.111	6725480	8305-2

### 8307-4 NEEDLE NOSE ELECTRONIC PLIERS

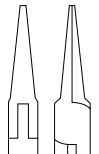
- > Slim, narrow, flat-round tapered jaws
- > Smooth-ground gripping faces
- > With opening spring
- > ESD = electrostatic discharge protection



JL	mm	kg	Code	No.
31	145	0.074	1743562	8307-4

### 8305-6 FINE NEEDLE NOSE ELECTRONIC PLIERS

- > Extra slim jaws and fine point
- > Without file-cut
- > ESD = electrostatic discharge protection

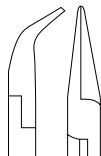


JL	mm	kg	Code	No.
40	160	0.101	6725720	8305-6

## Needle nose electronic pliers 45° angled

### 8307-3 NEEDLE NOSE ELECTRONIC PLIERS

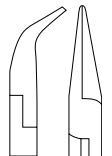
- > Slim, narrow, flat-round tapered jaws, angled 45°
- > Gripping faces with fine file cut
- > With opening spring
- > ESD = electrostatic discharge protection



JL	mm	kg	Code	No.
22	140	0.081	1743554	8307-3

### 8307-7 LONG NOSE ELECTRONIC PLIERS

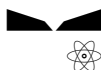
- > Extra long, flat-round tapered jaws, angled 45°
- > For bending and straightening jobs
- > Smooth-ground gripping faces
- > With opening spring
- > ESD = electrostatic discharge protection



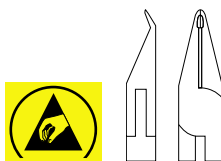
JL	mm	kg	Code	No.
35	165	0.113	1743597	8307-7

## Special electronic pliers

### 8305-7 ELECTRONIC DIAGONAL CUTTER



- > 30° angled cutting edges, with fine bevel
- > With slim head for confined spaces
- Cutting values:**
- > Soft steel: 0.6 mm/AWG 22
- > Copper wire: 0.8 mm/AWG 20
- > ESD = electrostatic discharge protection

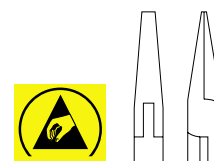


CL	mm	kg	Code	No.
6	135	0.073	6725990	8305-7

### 8305-9 FLAT NOSE ELECTRONIC PLIERS



- > Straight pattern
- > Without file-cut
- > ESD = electrostatic discharge protection

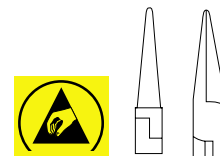
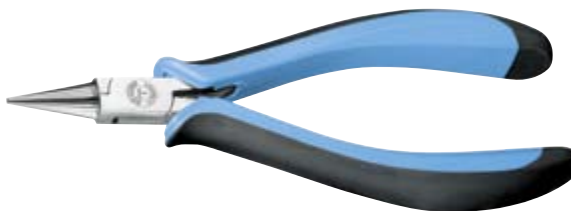


JL	mm	kg	Code	No.
23	135	0.073	6726370	8305-9

### 8308-6 ROUND NOSE ELECTRONIC PLIERS



- > For delicate work in the electronic sector, suitable for Kevlar®
- > Long service life
- > Tips tapering to Ø 1 mm, without file-cut
- > ESD = electrostatic discharge protection
- > Kevlar® is a registered trademark of the company DuPont



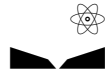
JL	mm	kg	Code	No.
20	135	0.078	1743651	8308-6

## Miniature Electronic Pliers

Made from high-performance hardened and tempered steel  
Induction-rehardened cutting edges, 59-61 HRC, faces phosphated

With opening spring  
2-component handles with secure-grip hand protection

### 8350-2 MINIATURE ELECTRONIC SIDE CUTTER



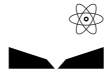
- > Sharp, narrow needle-point head
- > Cutting edges angled 21°, without bevel

**Cutting values:**  
> Copper wire: max. 0.8 mm / AWG 20



CL	↳ mm ↲	⚖ kg	Code	No.
8	132	0.073	1828967	8350-2

### 8350-3 MINIATURE ELECTRONIC SIDE CUTTER



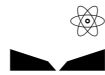
- > Sharp, narrow needle-point head
- > With wire-grip clamp
- > Cutting edges angled 21°, without bevel

**Cutting values:**  
> Copper wire: max. 1.0 mm / AWG 18



CL	↳ mm ↲	⚖ kg	Code	No.
8	132	0.082	1828975	8350-3

### 8350-5 MINIATURE ELECTRONIC DIAGONAL END CUTTING NIPPERS



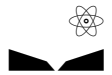
- > Wide, needle-point head
- > Cutting edges angled 48°, without bevel

**Cutting values:**  
> Copper wire: max. 1.3 mm / AWG 16



CL	↳ mm ↲	⚖ kg	Code	No.
8	136	0.085	1828991	8350-5

### 8350-6 MINIATURE ELECTRONIC SIDE CUTTER



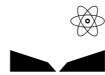
- > Wide, needle-point head
- > Cutting edges angled 21°, without bevel

**Cutting values:**  
> Copper wire: max. 1.3 mm / AWG 16  
> Medium-hard wire: max. 1.0 mm / AWG 18



CL	↳ mm ↲	⚖ kg	Code	No.
8	138	0.094	1829009	8350-6

### 8350-7 MINIATURE ELECTRONIC SIDE CUTTER



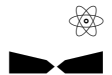
- > Wide, needle-point head
- > Cutting edges angled 21°, without bevel

**Cutting values:**  
> Copper wire: max. 1.3 mm / AWG 16



CL	↳ mm ↲	⚖ kg	Code	No.
8	138	0.086	1829017	8350-7

### 8350-8 MINIATURE ELECTRONIC SIDE CUTTER



Power Line

- > Fabric insert for increased strength
- > Wide, needle-point head
- > Cutting edges angled 21°, with fine bevel

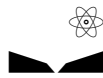
**Cutting values:**  
> Copper wire: max. 2.0 mm / AWG 12  
> Medium-hard wire: max. 1.6 mm / AWG 14



CL	↳ mm ↲	⚖ kg	Code	No.
12	140	0.110	1829025	8350-8



## 8350-9 MINIATURE ELECTRONIC SIDE CUTTER



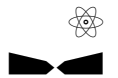
- > Wide, needle-point head
- > With wire-grip spring
- > Cutting edges angled 21°, without bevel

- Cutting values:**
- > Copper wire: max. 1.3 mm / AWG 16
  - > Medium-hard wire: max. 1.0 mm / AWG 18



CL	↳ mm	⚖️	Code	No.
10	138	0.094	1829033	8350-9

## 8351-1 MINIATURE ELECTRONIC SIDE CUTTER



Power Line

- > Tungsten-carbide technology for heavy continuous use
- > Cutting edges angled 21°, with fine bevel, hardness 62 HRC

- Cutting values:**
- > Copper wire: max. 2.0 mm / AWG 12
  - > Medium-hard wire: max. 1.6 mm / AWG 14
  - > Piano wire: max. 0.6 mm / AWG 22



CL	↳ mm	⚖️	Code	No.
8	137	0.109	1829041	8351-1

## 8352-1 MINIATURE ELECTRONIC NEEDLE NOSE PLIERS



- > Short, narrow, smooth jaws
- > Surface phosphated



JL	↳ mm	⚖️	Code	No.
20	145	0.090	1829068	8352-1

## 8352-2 MINIATURE ELECTRONIC FLAT NOSE PLIERS



- > Long, narrow, smooth jaws



JL	↳ mm	⚖️	Code	No.
32	158	0.094	1829076	8352-2

## 8352-3 MINIATURE ELECTRONIC NEEDLE NOSE PLIERS



- > Long, narrow, serrated jaws
- > Cutting edges angled 45°



JL	↳ mm	⚖️	Code	No.
35	152	0.092	1829084	8352-3

## 8353-1 MINIATURE ELECTRONIC WIRE STRIPPING PLIERS



- > Multipurpose tool for cutting, stripping and terminal crimping



JL	↳ mm	mm <sup>2</sup>	AWG	⚖️	Code	No.
40	175	0,25-0,81	30-20	0.126	1829092	8353-1

## Accessories

### 8353-2

## INSULATING VARNISH STRIPPER

- > For removing insulating varnish
- > Plastic handles
- > Strips wires 0.6 mm<sup>2</sup> / AWG 22



↳ mm ↳	mm <sup>2</sup>	AWG	⚖️	Code	No.
125	0,6	22	0.047	1828924	8353-2

### 8353-3

## WIRE STRIPPING KNIFE

- > For cable sizes 4-16 mm



∅	↳ mm ↳	⚖️	Code	No.
4-16	140	0.087	1828932	8353-3

### 8354-1

## DE-SOLDER TOOL

- > With suction action for removing solder residues when de-soldering electronic components



↳ mm ↳	⚖️	Code	No.
220	0.096	1828940	8354-1

## Stripping Tools

### 8147

## HEAVY-DUTY CABLE STRIPPING TOOL

- > Professional wire stripping tool with 2 cable hooks
- > Compact and user-friendly, even in the most difficult conditions
- > For cables (up to 40 mm ∅) with any kind of insulation
- > Blade can be locked in one of three positions (circular, straight or spiral cuts)
- > Cable capacity: 4.5 - 40 mm ∅
- > Insulation thickness: up to 4.5 mm

#### Dimensions:

- > with small cable hook: 150 x 42 x 30.5 mm
- > with large cable hook: 167 x 52 x 30.5 mm
- > E-8147 = Spare blade



∅	⚖️	Code	No.
4,5-40	0.196	1830856	8147

⚖️	Code	No.
0.002	1884719	E-8147



# 8146 STRIPPING PLIERS

with exchangeable module inserts, self-adjusting

- > Self-adjusting cutting and stripping tool (No. 8146) for modern electrical installations and equipment circuitry (90 % of all wires can be stripped without any adjustment of the tool)
- > The use of easily exchangeable module inserts allows accurate stripping of a wide range of insulation materials, including PVC and PTFE, with just one tool
- > Flat blade included in delivery
- > Dimensions: 191 x 123 x 20 mm

**Stripping capacity:**

- > 8146-1 with flat blade: 0.02-10 mm<sup>2</sup> / AWG 34-8 (for PVC insulation)
- > 8146-2 with round blade: 4-16 mm<sup>2</sup> / AWG 10-5
- > 8146-3 with V blade: PTFE 0.1-4 mm<sup>2</sup> / AWG 28-12 (for all types of insulation)

**Cutting values:**

- > Flexible wires up to 10 mm<sup>2</sup> / AWG 8
- > Rigid wires up to 1.5 mm<sup>2</sup> / AWG 16



8146




8146-1



8146-2




8146-3

Description	mm <sup>2</sup>	AWG		Code	No.
<b>Stripping pliers incl. module insert 8146-1</b>	0,02-10	34-8	0.180	1830805	8146
<b>Module insert with flat blade</b>	0,02-10	34-8	0.015	1830813	8146-1
<b>Module insert with round blade</b>	4-16	10-5	0.016	1830821	8146-2
<b>Module insert with V-blade</b>	0,1-4	28-12	0.016	1830848	8146-3

# 8139 CABLE END-SLEEVE PLIERS

- > For the simple pressing of conductor end-sleeves as per DIN 46228
- > With a V-block for stripping and cutting soft wire
- > In heat-treated steel as per DIN
- > TL = chrome-plated, with blue dipped handle protectors



mm <sup>2</sup>	↳ mm	↳ inch		Code	No.
<b>0,25-2,5</b>	155	6	0.186	6723510	8139-155TC
<b>0,5-16</b>	220	8.1/2	0.314	6723780	8139-220TC

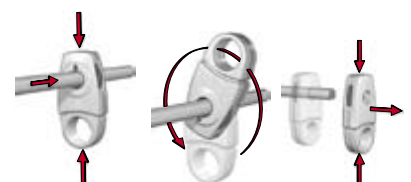
# 8148 PRECISION STRIPPING TOOL


for data cables

- > User-friendly, easy to handle, all-round cut
- > Precision adjustment of cutting depth (adjuster wheel with 9 positions)
- > Replaceable blade
- > Safe, rounded, pocket design
- > Stripping capacity: 2.5 - 11 mm
- > Insulation thickness: up to 1.0 mm

**Dimensions:**

- > 90.5 x 39.5 x 19 mm
- > E-8148 = Spare blade



∅		Code	No.
<b>2,5-11</b>	0.043	1830864	8148
<b>0.002</b>		1884727	E-8148



## Precision Crimp Wrenches

### 8141 PRECISION CRIMP WRENCH

for conductor end-sleeves

- > Flexible and lightweight
- > For right and left-handers
- > Positive locking to ensure crimping completion
- > Releasing mechanism to remove incorrect crimping and blockades
- > Precision eccentric setting for constant crimp quality and calibrating function

**Field of application:**

- > Self-adjusting from 0.5 to 6 mm<sup>2</sup> / AWG 22- AWG 10



mm <sup>2</sup>	↳ mm ↳	↳ inch ↳	⚖️ kg	Code	No.
0,5-6	197	7,75	0.423	1830759	8141

### 8142 PRECISION CRIMP WRENCH

for insulated terminals

- > Unique mechanism ensures a marked reduction of hand force as against other crimping tools
- > Flexible and lightweight
- > For right and left-handers
- > Positive locking to ensure crimping completion
- > Releasing mechanism to remove incorrect crimping and blockades
- > Precision eccentric setting for constant crimp quality and calibrating function

**Field of application:**

- > 1: 0.5-1.0 mm<sup>2</sup> / 20-18 AWG
- > 2: 1.5-2.5 mm<sup>2</sup> / 16-14 AWG
- > 3: 4.0-6.0 mm<sup>2</sup> / 12-10 AWG



mm <sup>2</sup>	↳ mm ↳	↳ inch ↳	⚖️ kg	Code	No.
0,5-6	255	10,04	0.626	1830767	8142

### 8152 - 8153 CRIMP WRENCH

for big terminals

- > Ratchet mechanism developed for uniform, reliable crimping of non-insulated crimp lug terminals to conductors and to secure completed crimping cycles and positive locking
- > Assymetrical press inserts for optimal termination
- > The press inserts mark the connector, to allow the correct use of the tool to be checked
- > Long handles enable double-handed use and effortless crimping



8152



8153



mm <sup>2</sup>	AWG	↳ mm ↳	⚖️ kg	Code	No.
4-25	12-3	300	0.650	2010313	8152
10-75	7-2/0	500	2.800	2010321	8153



## Crimping Pliers

### 8155 CRIMP WRENCH


for insulated connector

- > For red, blue and yellow insulated connectors, such as cable terminals, pin cable terminals, flat plugs, flat sockets, round plugs, round sockets, push connectors and parallel connectors
- > Easy to handle
- > Releasable positive locking
- > Kind-to-hands formed handles
- > GEDORE special steel, gun-metal finish

**Field of application:**

- > 1: 0.5-1.0 mm<sup>2</sup> / 20-18 AWG
- > 2: 1.5-2.5 mm<sup>2</sup> / 16-14 AWG
- > 3: 4.0-6.0 mm<sup>2</sup> / 12-10 AWG



mm <sup>2</sup>	AWG	L	W		Code	No.
0,5-6	20-10	220	80	0.480	2836823	8155

### 8156 CRIMP WRENCH


for non-insulated contacts

- > For non-insulated contacts with open crimping sleeve, such as flat plugs F 2.8; F4.8; F6.3 and F 9.5
- > Easy to handle
- > Releasable positive locking
- > Kind-to-hands formed handles
- > GEDORE special steel, gun-metal finish

**Field of application:**

- > 1: 0.25-0.5 mm<sup>2</sup> / 24-20 AWG
- > 2: 0.5-1.0 mm<sup>2</sup> / 20-18 AWG
- > 3: 4.0-6.0 mm<sup>2</sup> / 12-10 AWG
- > 4: 1.5-2.5 mm<sup>2</sup> / 16-14 AWG



mm <sup>2</sup>	AWG	L	W		Code	No.
0,25-6	24-10	220	80	0.510	2836831	8156

### 8157 CRIMP WRENCH


for cable lugs

- > For non-insulated contacts with closed crimping sleeve (W pressing) up to 16 mm<sup>2</sup> / AWG 6 and tubular cable lugs up to 10 mm<sup>2</sup> / AWG 6
- > Easy to handle
- > Releasable positive locking
- > Kind-to-hands formed handles
- > GEDORE special steel, gun-metal finish

**Field of application:**

- > 1: 0.1-0.35 mm<sup>2</sup> / 26-22 AWG
- > 2: 0.5-1.0 mm<sup>2</sup> / 20-18 AWG
- > 3: 1.5-2.5 mm<sup>2</sup> / 16-14 AWG
- > 4: 4.0-6.0 mm<sup>2</sup> / 12-10 AWG
- > 5: 10.0-16.00 mm<sup>2</sup> / 8-6 AWG



mm <sup>2</sup>	AWG	L	W		Code	No.
0,1-16	26-6	220	80	0.470	2836858	8157

## Crimp Wrench modular



### ADVANTAGES:

- › Reliable: parallel action ensures precision crimping
- › Easy to handle: components kept in view throughout the crimping process, easily accessible release function allows quick change of insert modules without the use of additional tools
- › Comfortable: lightweight, plastic-sheathed tool frame for comfort grip - even at low temperatures
- › Practical: insert modules, easy to change and clearly labelled, supplied in pairs on a pin in a storage box to prevent loss (storage boxes interconnect - like in a jigsaw puzzle)
- › Versatile and economical: just one tool base frame can be used with all the various insert modules to carry out a wide range of crimping processes, including heavy plug and socket connectors, coaxial connectors, optic fibres and RJ45 plugs.



### CHANGING OF THE CRIMPING INSERTS

- › By pressing the release of the crimping insert you can easily remove the crimping insert.
- › Remove the crimping insert and put in the required crimping insert while pressing down the release.



## 8140 MODULAR CRIMP WRENCH

- › Professional ratchet crimping pliers for most types of mechanical, electrical and electronic connectors
- › Dimensions: L 234 x H 64 x W 24 mm
- › Just one tool base frame (No. 8140) can be used with all insert modules
- › Module inserts changeable without tools



↳ mm ↳

234

⚖

0.557

Code

1830546

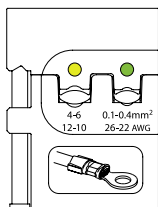
No.

8140

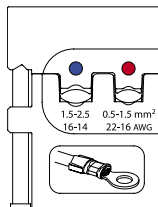


## 8140-01/-02 MODULE INSERT

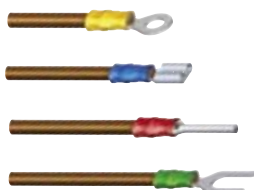
for insulated terminals




8140-01



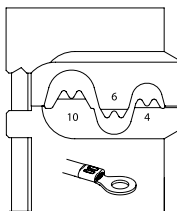
8140-02



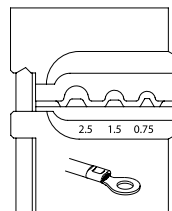
mm <sup>2</sup>	AWG		Code	No.
<b>0,1-0,4 + 4-6</b>	26-22 + 12-10	0.075	1830554	8140-01
<b>0,5-1,5 + 1,5-2,5</b>	22-16 + 16-14	0.068	1830562	8140-02

## 8140-03/-04/-05 MODULE INSERT

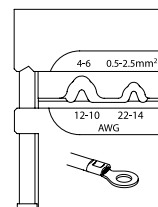
for non-insulated terminals



8140-03




8140-04



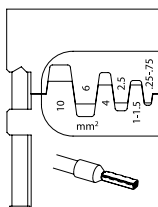
8140-05



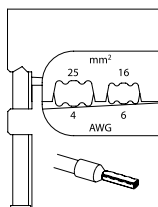
mm <sup>2</sup>	AWG		Code	No.
<b>4-6-10</b>	12-10-8	0.056	1830570	8140-03
<b>0,75-1,5-2,5</b>		0.076	1830589	8140-04
<b>0,5-2,5 + 4-6</b>	22-14 + 12-10	0.056	1830597	8140-05

## 8140-06/-07/-08 MODULE INSERT

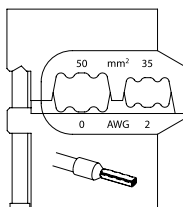
for conductor end-sleeves



8140-06




8140-07



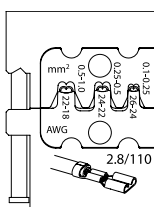
8140-08



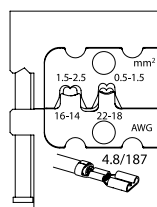
mm <sup>2</sup>	AWG		Code	No.
<b>0,25-10</b>		0.056	1830600	8140-06
<b>16-25</b>	6-4	0.056	1830619	8140-07
<b>35-50</b>	2-0	0.056	1830627	8140-08

## 8140-09/-10/-11 MODULE INSERT

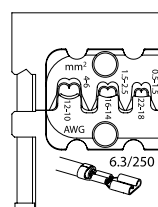
for flat plugs



8140-09




8140-10



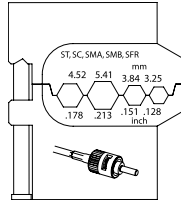
8140-11



Connector type	mm <sup>2</sup>	AWG		Code	No.
<b>2,8</b>	0,1-1	26-18	0.072	1830635	8140-09
<b>4,8</b>	0,5-2,5	22-14	0.056	1830643	8140-10
<b>6,3</b>	0,5-6	22-10	0.080	1830651	8140-11

## 8140-12 MODULE INSERT

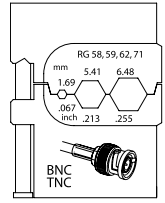
for optical waveguides



Ø	kg	Code	No.
4,52 5,41 3,84 3,25 mm .178 .213 .151 .128 in	0.056	1830678	8140-12

## 8140-14 MODULE INSERT

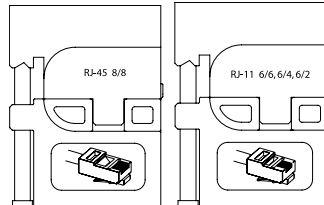
for coax cables



Connector type	Ø	kg	Code	No.
RG 58, 59, 62, 71	1,69 5,41 6,48 mm .067 .213 .255 in	0.056	1830694	8140-14

## 8140-16/-17 MODULE INSERT

for modular plugs

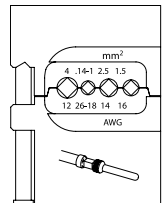


8140-16 8140-17

Connector type	kg	Code	No.
RJ-45, 8P/8C	0.050	1830716	8140-16
RJ-11, 6P/6C - 6P/4C - 6P/2C	0.048	1830724	8140-17

## 8140-18 MODULE INSERT

for heavy connectors

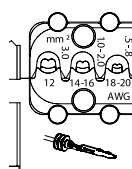


mm²	AWG	kg	Code	No.
0,14-4	26-12	0.056	1830732	8140-18

## 8140-20 MODULE INSERT

for lamellar contacts

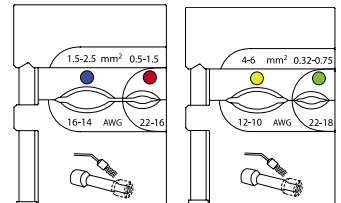
> With seals 0.5 - 3.0 mm²



mm²	AWG	kg	Code	No.
0,5-3,0	20-12	0.056	1963384	8140-20

## 8140-21/-22 MODULE INSERT

for Dura Seal contacts



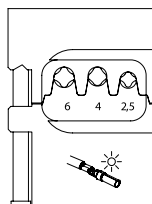
8140-21 8140-22

mm²	AWG	kg	Code	No.
0,5 - 1,5 / 1,5 - 2,5	22 - 16 / 16 - 14	0.080	1963392	8140-21
0,32 - 0,75 / 4 - 6	22 - 18 / 12 - 10	0.080	1963406	8140-22

## 8140-23 MODULE INSERT

for Solarlok®

> Suitable for Tyco Solarlok®: 2.5 - 4 - 6 mm²

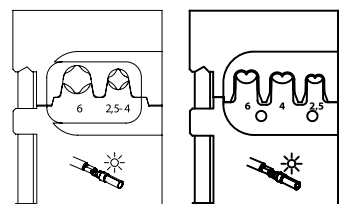


mm²	kg	Code	No.
2,5 - 4 - 6	0.086	2078082	8140-23

## 8140-24/-25 MODULE INSERT

for Multi Contact

> Suitable for Multi Contact MC 3 / MC 4: 2.5 - 4 - 6 mm²



8140-24 8140-25

Connector type	kg	Code	No.
Multi Contact MC 3	0.056	2078090	8140-24
Multi Contact MC 4	0.700	2078104	8140-25



## Crimp Wrench Sets

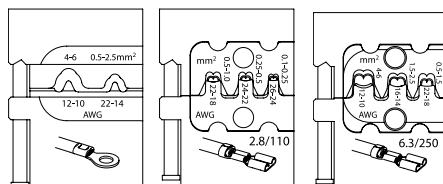
### S 8140 A CRIMPING PLIERS SET AUTOMOTIVE

4 pieces

- Practical set made up for specific requirements in automotive engineering
- Ideal for high-standard crimping
- Can be individually upgraded by purchasing additional module inserts
- Module inserts changeable without tools
- In practical blister packaging



S 8140 A



8140-05

8140-09

8140-11

Contents		Code	No.
<b>8140</b> 8140-09 -05 -11	0.754	1830910	S 8140 A

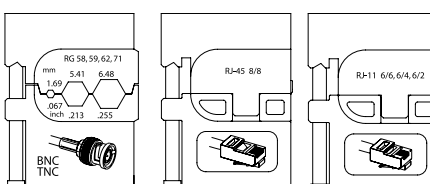
### S 8140 D CRIMPING PLIERS SET DATA COM

4 pieces

- Practical set made up for specific requirements in data-communications installations
- Ideal for high-standard crimping
- Can be individually upgraded by purchasing additional module inserts
- Module inserts changeable without tools
- In practical blister packaging



S 8140 D



8140-14

8140-16

8140-17

Contents		Code	No.
<b>8140</b> 8140-14 -16 -17	0.711	1830937	S 8140 D

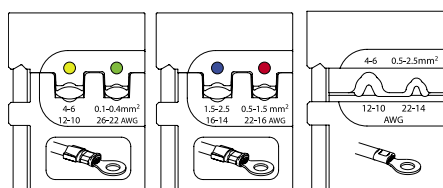
### S 8140 E CRIMPING PLIERS SET ELECTRONIC

4 pieces

- Practical set made up for specific requirements for electricians
- Ideal for high-standard crimping
- Can be individually upgraded by purchasing additional module inserts
- Module inserts changeable without tools
- In practical blister packaging



S 8140 E



8140-01

8140-02

8140-05

Contents		Code	No.
<b>8140</b> 8140-01 -02 -05	0.760	1830899	S 8140 E

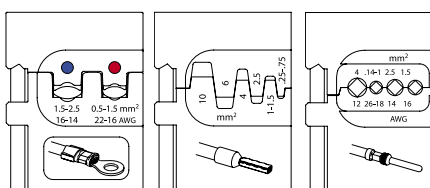
### S 8140 J CRIMPING PLIERS SET INDUSTRIAL

4 pieces

- Practical set made up for specific requirements in industrial maintenance
- Ideal for high-standard crimping
- Can be individually upgraded by purchasing additional module inserts
- Module inserts changeable without tools
- In practical blister packaging



S 8140 J



8140-02

8140-06

8140-18

Contents		Code	No.
<b>8140</b> 8140-02 -06 -18	0.752	1830929	S 8140 J

# S 8140 PN

## CRIMPING PLIERS SET STARTER

in plastic case


- > Without module inserts for individual composition
- > In practical plastic case



8140



S 8140 PN

Contents	 kg	Code	No.
<b>8140</b>	1.589	1963279	S 8140 PN


# RZB1-18CR

## PLIERS SET

2 pieces + accessories

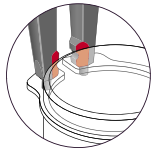
- > In rugged plastic case



Contents	 kg	Code	No.
<b>8141</b>	1.480	1895249	RZB1-18CR
<b>8146</b>			
<b>End-sleeves</b>			
<b>0.50 0.75 1.00 1.50</b>			
<b>2.50 4.00 6.00</b>			

## Circlip pliers for external retaining rings (shafts)

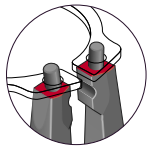
### 8000 AE



Flattened tip mounting makes it easier to get at the safety ring eyelets

Secure tip thanks to keyed press-fixing in the pliers head

With no retaining groove in the tips, the safety ring cannot be inadvertently bent and it remains absolutely flat. In addition no weakening of the tips from a retaining groove (notching-induced rated breaking point).



Large contact surface for the safety ring stops it becoming twisted



Precision, screwed joint. The screw ensures ease in re-adjusting the pliers legs.

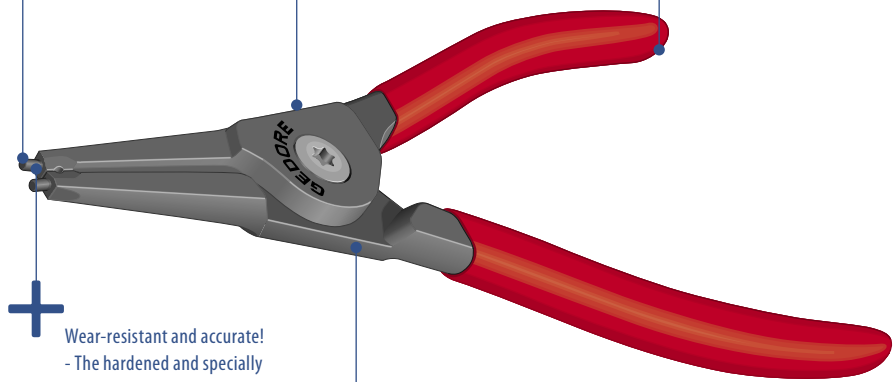
Contoured anti-slip handles stop your hands from slipping



Wear-resistant and accurate!  
- The hardened and specially inserted tip is of high-grade roller bearing steel and absolutely cylindrical.



A secure internal spring makes work easier with circlip pliers



### TIP

#### This thus lessens safety ring twisting!

- > Always ensure that the fitting side is the right one when installing safety rings.
- > The safety ring "eyelets" are stamped and thus they are slightly conical.
- > To stop any ring twisting, the narrower side of the eyelets\* should rest on the pliers.

\* The bevel-free side is also the narrower side of the eyelets.

## 8000 AE 0 - AE 4 CIRCLIP PLIERS FOR EXTERNAL RETAINING RINGS

NEW

Form A

- > For safety rings as per DIN 471, DIN 983
- > DIN 5254 Form A
- > Straight jaws
- > Inside-positioned opening spring
- > Pliers basic body in GEDORE chrome-vanadium special steel
- > Pressed-in tips of highly wear-resistant roller bearing steel
- > Twisting-impeding tip geometry
- > Screwed joint connection
- > Steel-grey with red-dipped anti-slip handles



● mm	● inch	L	L <sub>1</sub>	d	⚖	Code	No.
3-10	5/32-3/8	144	39	0.9	0.090	2930633	8000 AE 0
10-25	3/8-1	145	39	1.3	0.095	2930668	8000 AE 1
19-60	3/4-2.3/8	183	57	1.8	0.180	2923602	8000 AE 2
40-100	1.5/8-4	230	68	2.3	0.310	2930676	8000 AE 3
85-140	3.3/8-5.1/2	332	95	3.2	0.590	2930684	8000 AE 4





# 8000 AE 01 - AE 41 CIRCLIP PLIERS FOR EXTERNAL RETAINING RINGS

**NEW**

Form B

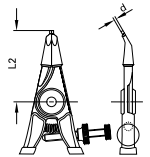
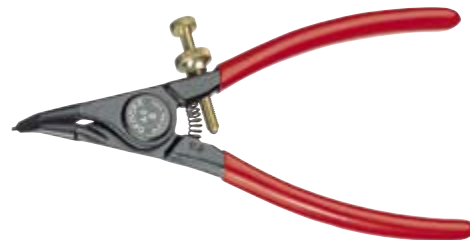
- > For safety rings as per DIN 471, DIN 983
- > DIN 5254 Form B
- > 90° angled jaws
- > Inside-positioned opening spring
- > Pliers basic body in GEDORE chrome-vanadium special steel
- > Pressed-in tips of highly wear-resistant roller bearing steel
- > Twisting-impeding tip geometry
- > Screwed joint connection
- > Steel-grey with red-dipped anti-slip handles



● mm	● inch	L	L <sub>2</sub>	d	⚖ kg	Code	No.
3-10	5/32-3/8	133	27	0.9	0.090	2930692	8000 AE 01
10-25	3/8-1	133	27	1.3	0.095	2930706	8000 AE 11
19-60	3/4-2.3/8	170	44	1.8	0.180	2930714	8000 AE 21
40-100	1.5/8-4	217	54	2.3	0.310	2930730	8000 AE 31
85-140	3.3/8-5.1/2	311	74	3.2	0.590	2930749	8000 AE 41

# 8000 A 0G - A 2G CIRCLIP PLIERS FOR EXTERNAL RETAINING RINGS

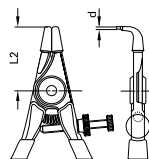
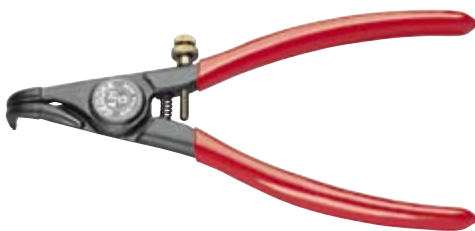
- > For shafts without groove
- > For retaining rings Seeger as well as Benzing
- > Similar to DIN 5254 Form A
- > A 0G - A 1G = tips angled 30°
- > A 2G = straight tips
- > With opening spring and adjusting screw to limit opening
- > High degree of assembly reliability, the limit opening rules out any over-tensioning of the smallest of retaining rings
- > Forged GEDORE chrome-vanadium special hardened and tempered steel
- > Precision machined, oil hardened and annealed
- > Black, with red dipped handles



for Seeger circlips ● mm	for Benzing clamping circlips ● mm	L	L <sub>2</sub>	d	⚖ kg	Code	No.
1,5-3,5	1,5-3,5	140	40	0.7	0.099	6700140	8000 A 0G
4,0-9,0	3,0-11,0	140	40	1.1	0.098	6700220	8000 A 1G
10,0-15,0	12,0-16,0	182	57	1.8	0.189	6700300	8000 A 2G

# 8000 A 01G - A 21G CIRCLIP PLIERS FOR EXTERNAL RETAINING RINGS

- > For shafts without groove
- > For retaining rings Seeger as well as Benzing
- > Similar to DIN 5254 Form B
- > 90° angled tips
- > With opening spring and adjusting screw to limit opening
- > High degree of assembly reliability, the limit opening rules out any over-tensioning of the smallest of retaining rings
- > Forged GEDORE chrome-vanadium special hardened and tempered steel
- > Precision machined, oil hardened and annealed
- > Black, with red dipped handles

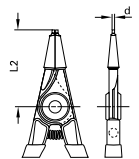
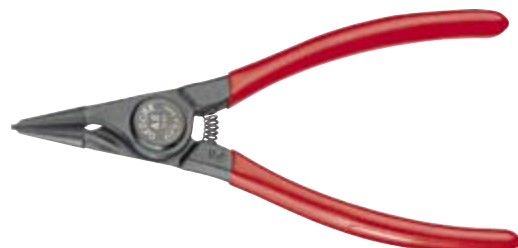


for Seeger circlips ● mm	for Benzing clamping circlips ● mm	L	L <sub>2</sub>	d	⚖ kg	Code	No.
1,5-3,5	1,5-3,5	134	33	0.7	0.100	6700650	8000 A 01G
4,0-9,0	3,0-11,0	134	33	1.1	0.099	6700730	8000 A 11G
10,0-15,0	12,0-16,0	170	45	1.8	0.184	6700810	8000 A 21G

# 8000 A 0 - A 4 CIRCLIP PLIERS FOR EXTERNAL RETAINING RINGS

Form A

- > For retaining rings as per DIN 471, DIN 983
- > DIN 5254 Form A
- > Straight tips
- > With opening spring
- > With clamping protection
- > Forged GEDORE chrome-vanadium special hardened and tempered steel
- > Precision machined, oil hardened and annealed
- > Black, with red dipped handles



● mm	● inch	L	L <sub>2</sub>	d	⚖ kg	Code	No.
3-10	5/32-3/8	141	40.0	0.9	0.096	6701380	8000 A 0
10-25	3/8-1	141	40.0	1.3	0.098	6701460	8000 A 1
19-60	3/4-2.3/8	182	54.0	1.8	0.186	6701540	8000 A 2
40-100	1.5/8-4	230	69.0	2.3	0.310	6701620	8000 A 3
85-140	3.3/8-5.1/2	320	85.5	3.2	0.555	6701700	8000 A 4

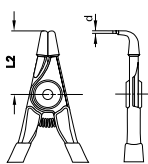
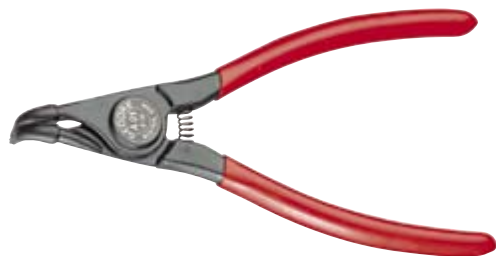


## 8000 A 01 - A 41 CIRCLIP PLIERS FOR EXTERNAL RETAINING RINGS



Form B

- > For retaining rings as per DIN 471, DIN 983
- > DIN 5254 Form B
- > 90° angled tips
- > With opening spring
- > With clamping protection
- > Forged GEDORE chrome-vanadium special hardened and tempered steel
- > Precision machined, oil hardened and annealed
- > Black, with red dipped handles

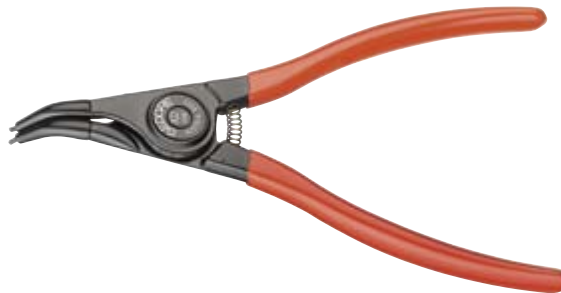


● mm	● inch	L	L <sub>1</sub>	d	⚖ kg	Code	No.
3-10	5/32-3/8	130	29	0.9	0.097	6702270	8000 A 01
10-25	3/8-1	130	29	1.3	0.097	6702350	8000 A 11
19-60	3/4-2.3/8	170	43	1.8	0.182	6702430	8000 A 21
40-100	1.5/8-4	210	53	2.3	0.317	6702510	8000 A 31
85-140	3.3/8-5.1/2	305	64	3.2	0.563	6702780	8000 A 41

## 8000 A 02 - A 42 CIRCLIP PLIERS FOR EXTERNAL RETAINING RINGS



- > Similar to DIN 5254 Form B
- > 45° angled tips
- > With opening spring
- > With clamping protection
- > Forged GEDORE chrome-vanadium special hardened and tempered steel
- > Precision machined, oil hardened and annealed
- > Black, with red dipped handles

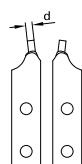


● mm	● inch	L	L <sub>1</sub>	d	⚖ kg	Code	No.
3-10	5/32-3/8	139	38.0	0.9	0.097	2015021	8000 A 02
10-25	3/8-1	139	38.0	1.3	0.097	2015048	8000 A 12
19-60	3/4-2.3/8	179	51.0	1.8	0.182	2015056	8000 A 22
40-100	1.5/8-4	226	65.0	2.3	0.317	2015064	8000 A 32
85-140	3.3/8-5.1/2	315	80.5	3.2	0.568	2015072	8000 A 42

## 8000 A 4 - A 6 CIRCLIP PLIERS FOR EXTERNAL RETAINING RINGS



- > Straight tips
- > Black, tips and lock lever zinc-plated
- > The toothed bracket stops the pliers legs from straddling beyond the permitted working area
- > This ensures safe working even in hidden fitting positions
- > Locking pin can be replaced
- > Non-crush type release-lever with handle recesses, red dip-insulated
- > Precision machined, oil hardened and annealed
- > E-8000 A = pair of spare tips



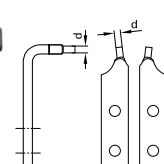
● mm	● inch	d	↳ mm	⚖ kg	Code	No.
85-140	3.3/8-5.1/2	3.2	550	1.921	2011778	8000 A 4 EL
122-300	4.13/16-11.7/8	3.5	550	1.921	6701890	8000 A 5
252-400	9.15/16-15.13/16	4.5	586	1.922	6701970	8000 A 6

d	⚖ kg	Code	No.
3.2	0.072	2011670	E-8000 A 4 EL
3.5	0.072	5701840	E-8000 A 5
4.5	0.112	5701920	E-8000 A 6

## 8000 A 41 - A 61 CIRCLIP PLIERS FOR EXTERNAL RETAINING RINGS



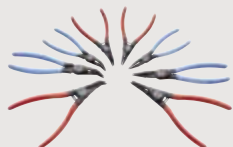
- > 90° angled tips
- > Tips and lock lever zinc-plated
- > Lever handle-end red dip-insulated
- > Finger protection
- > Reinforced safety arms
- > Precision machined, oil hardened and annealed
- > E-8000 A = pair of spare tips



● mm	● inch	d	↳ mm	⚖ kg	Code	No.
85-140	3.3/8-5.1/2	3.2	560	1.898	2011786	8000 A 41 EL
122-300	4.13/16-11.7/8	3.5	560	1.898	6702860	8000 A 51
252-400	9.15/16-15.13/16	4.5	585	1.953	6718430	8000 A 61

d	⚖ kg	Code	No.
3.2	0.072	2011697	E-8000 A 41 EL
3.5	0.112	5702810	E-8000 A 51
4.5	0.140	5701760	E-8000 A 61

5 8028



>425

1500 ES-8000



>103

Circlip pliers for internal retaining rings (bores)

**NEW**

**8000 JE 0 - JE 4**  
CIRCLIP PLIERS FOR  
INTERNAL RETAINING RINGS



Form C

- > For safety rings as per DIN 472, DIN 984
- > DIN 5256 Form C
- > Straight jaws
- > Pliers basic body in GEDORE chrome-vanadium special steel
- > Pressed-in tips of highly wear-resistant roller bearing steel
- > Twisting-impeding tip geometry
- > Screwed joint connection
- > Steel-grey with blue-dipped anti-slip handles



Ø mm	Ø inch	L	L <sub>2</sub>	d	⚖️	Code	No.
8-13	3/8-9/16	139	41	0.9	0.090	2930757	8000 JE 0
12-25	3/8-1	139	41	1.3	0.090	2930765	8000 JE 1
19-60	3/4-2.3/8	182	54	1.8	0.160	2930773	8000 JE 2
40-100	1.5/8-4	230	68	2.3	0.280	2930781	8000 JE 3
85-140	3.3/8-5.1/2	324	86	3.2	0.550	2930803	8000 JE 4

**NEW**

**8000 JE 01 - JE 41**  
CIRCLIP PLIERS FOR  
INTERNAL RETAINING RINGS



Form D

- > For safety rings as per DIN 472, DIN 984
- > DIN 5256 Form D
- > 90° angled jaws
- > Pliers basic body in GEDORE chrome-vanadium special steel
- > Pressed-in tips of highly wear-resistant roller bearing steel
- > Twisting-impeding tip geometry
- > Screwed joint connection
- > Steel-grey with blue-dipped anti-slip handles



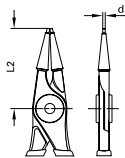
Ø mm	Ø inch	L	L <sub>2</sub>	d	⚖️	Code	No.
8-13	3/8-9/16	129	30	0.9	0.090	2930811	8000 JE 01
12-25	3/8-1	129	30	1.3	0.090	2930838	8000 JE 11
19-60	3/4-2.3/8	170	43	1.8	0.160	2930846	8000 JE 21
40-100	1.5/8-4	217	53	2.3	0.280	2930854	8000 JE 31
85-140	3.3/8-5.1/2	310	70	3.2	0.550	2930862	8000 JE 41

**8000 J 0 - J 4**  
CIRCLIP PLIERS FOR  
INTERNAL RETAINING RINGS



Form C

- > For retaining rings as per DIN 472, DIN 984
- > DIN 5256 Form C
- > Straight tips
- > Forged GEDORE chrome-vanadium special hardened and tempered steel
- > Precision machined, oil hardened and annealed
- > Black, with blue dipped handles



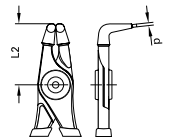
Ø mm	Ø inch	L	L <sub>2</sub>	d	⚖️	Code	No.
8-13	3/8-9/16	141	41.0	0.9	0.080	6703240	8000 J 0
12-25	3/8-1	141	41.0	1.3	0.081	6703320	8000 J 1
19-60	3/4-2.3/8	183	54.0	1.8	0.164	6703400	8000 J 2
40-100	1.5/8-4	230	68.0	2.3	0.281	6703590	8000 J 3
85-140	3.3/8-5.1/2	322	84.5	3.2	0.472	6703670	8000 J 4

**8000 J 01 - J 41**  
CIRCLIP PLIERS FOR  
INTERNAL RETAINING RINGS



Form D

- > For retaining rings as per DIN 472, DIN 984
- > DIN 5256 Form D
- > 90° angled tips
- > Forged GEDORE chrome-vanadium special hardened and tempered steel
- > Precision machined, oil hardened and annealed
- > Black, with blue dipped handles



Ø mm	Ø inch	L	L <sub>2</sub>	d	⚖️	Code	No.
8-13	3/8-9/16	129	28	0.9	0.080	6704130	8000 J 01
12-25	3/8-1	129	28	1.3	0.082	6704210	8000 J 11
19-60	3/4-2.3/8	169	41	1.8	0.161	6704480	8000 J 21
40-100	1.5/8-4	214	50	2.3	0.279	6704560	8000 J 31
85-140	3.3/8-5.1/2	292	65	3.2	0.484	6704640	8000 J 41

1500 CT1-8000



# 8000 J 02 - J 42

## CIRCLIP PLIERS FOR INTERNAL RETAINING RINGS



- > Similar to DIN 5256 Form D
- > 45° angled tips
- > Forged GEDORE chrome-vanadium special hardened and tempered steel
- > Precision machined, oil hardened and annealed
- > Black, with blue dipped handles



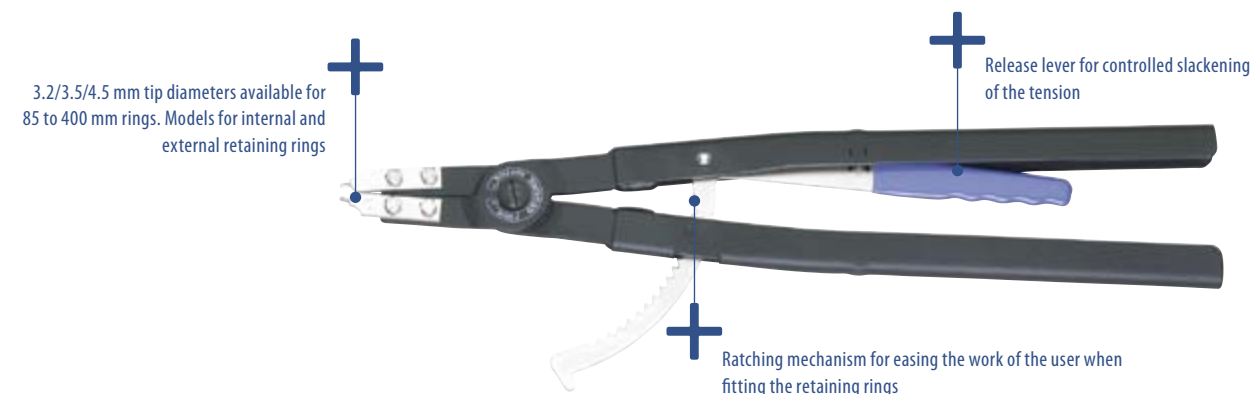
Ø mm	Ø inch	L	L <sub>2</sub>	d	⚖️	Code	No.
8-13	3/8-9/16	139	39.0	0.9	0.080	2014963	8000 J 02
12-25	3/8-1	139	39.0	1.3	0.080	2014971	8000 J 12
19-60	3/4-2.3/8	180	52.0	1.8	0.161	2014998	8000 J 22
40-100	1.5/8-4	226	64.0	2.3	0.279	2015005	8000 J 32
85-140	3.3/8-5.1/2	316	78.5	3.2	0.484	2015013	8000 J 42

# 8000 J 4 - J 6

## CIRCLIP PLIERS FOR INTERNAL RETAINING RINGS

- > Straight tips
- > Black, tips and lock lever zinc-plated
- > The toothed bracket stops the pliers legs from straddling beyond the permitted working area
- > This ensures safe working even in hidden fitting positions

- > Locking pin can be replaced
- > Non-crush type release-lever with handle recesses, blue dip-insulated
- > Precision machined, oil hardened and annealed
- > E-8000 J = pair of spare tips



# 8000 J 4 - J 6

## CIRCLIP PLIERS FOR INTERNAL RETAINING RINGS

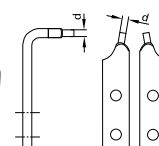
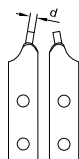


# 8000 J 41 - J 61

## CIRCLIP PLIERS FOR INTERNAL RETAINING RINGS



- > 90° angled tips
- > Black, tips and lock lever zinc-plated
- > Lever handle-end blue dip-insulated
- > Finger protection
- > Reinforced safety arms
- > Precision machined, oil hardened and annealed
- > E-8000 J = pair of spare tips



Ø mm	Ø inch	d	l mm	⚖️	Code	No.
85-140	3.3/8-5.1/2	3.2	565	1.835	2011794	8000 J 4 EL
122-300	4.13/16-11.7/8	3.5	565	1.836	6703750	8000 J 5
252-400	9.15/16-15.13/16	4.5	575	1.846	6703830	8000 J 6

d	⚖️	Code	No.
3.2	0.072	2011700	E-8000 J 4 EL
3.5	0.072	5703700	E-8000 J 5
4.5	0.082	5703890	E-8000 J 6

Ø mm	Ø inch	d	l mm	⚖️	Code	No.
85-140	3.3/8-5.1/2	3.2	575	1.953	2011808	8000 J 41 EL
122-300	4.13/16-11.7/8	3.5	575	1.953	6704720	8000 J 51
252-400	9.15/16-15.13/16	4.5	579	1.934	6718510	8000 J 61

d	⚖️	Code	No.
3.2	0.072	2011719	E-8000 J 41 EL
3.5	0.116	5704780	E-8000 J 51
4.5	0.116	5702730	E-8000 J 61

## Circlip pliers for retaining rings (parallel)

# 8005 A PLIERS FOR EXTERNAL RETAINING RINGS

- > For shafts
- > Supplied with four different clamping tips

- > The circlip is securely clamped before removal by choosing a suitable distance between the clamping tips. This means that unnecessary plier movement is avoided, and the circlip may be opened completely. The special parallel movement of the clamping tips and their recesses in the direction of the pressure applied ensure that the circlip will be clamped firmly.



## 8005 A CIRCLIP PLIERS FOR EXTERNAL RETAINING RINGS



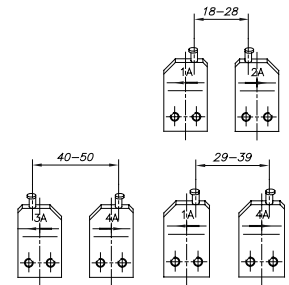
mm	ε mm	mm	mm	kg	Code	No.
305-500	4.5	5,9	665	3.520	6707150	8005 A

## E-8005 A SPARE TIPS

for external retaining rings (per piece)

### Selection aid:

- > The spacing of holes for non-tensioned circlips is normally between 20 mm and 50 mm
- > The tips used to spread the rings are fitted to match the opening width of the non-tensioned circlip
- > Opening widths 18-28 mm:  
Combination tips E-8005 1 A and E-8005 2 A
- > Opening widths 29-39 mm:  
Combination tips E-8005 1 A and E-8005 4 A
- > Opening widths 40-50 mm:  
Combination tips E-8005 3 A and E-8005 4 A



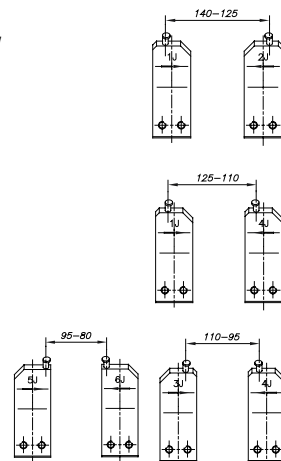
kg	Code	No.	kg	Code	No.
0.068	5700790	E-8005 1 A	0.068	5702300	E-8005 3 A
0.068	5702220	E-8005 2 A	0.068	5702490	E-8005 4 A

## E-8005 J SPARE TIPS

for internal retaining rings (per piece)

### Selection aid:

- > The spacing of holes for non-tensioned circlips is normally between 80 mm and 140 mm
- > The tips used to spread the rings are fitted to match the opening width of the non-tensioned circlip
- > Opening widths 140-125 mm:  
Combination tips E-8005 1 J and E-8005 2 J
- > Opening widths 125-110 mm:  
Combination tips E-8005 1 J and E-8005 4 J
- > Opening widths 110-95 mm:  
Combination tips E-8005 3 J and E-8005 4 J
- > Opening widths 95-80 mm:  
Combination tips E-8005 5 J and E-8005 6 J



kg	Code	No.	kg	Code	No.
0.116	5703380	E-8005 1 J	0.116	5703620	E-8005 5 J
0.116	5703460	E-8005 2 J	0.116	5703970	E-8005 6 J
0.116	5704190	E-8005 3 J			
0.113	5703540	E-8005 4 J			

## 8005 J CIRCLIP PLIERS FOR INTERNAL RETAINING RINGS

- > For bores
- > Supplied with six different clamping tips
- > The circlip is securely clamped before removal by choosing a suitable distance between the clamping tips. This means that unnecessary plier movement is avoided, and the circlip may be opened completely. The special parallel movement of the clamping tips and their recesses in the direction of the pressure applied ensure that the circlip will be clamped firmly.



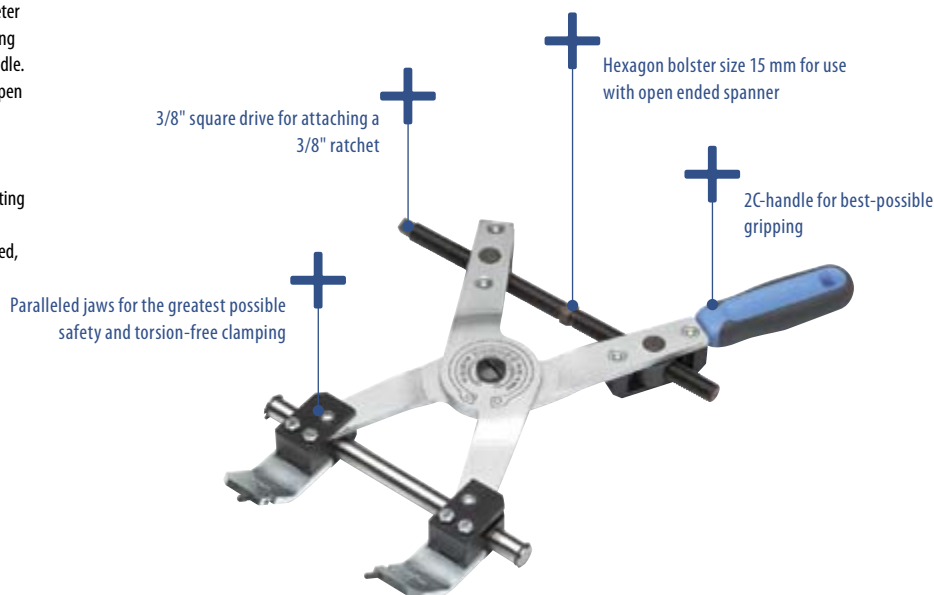
mm	ε mm	mm	mm	kg	Code	No.
305-500	4.5	5,9	705	3.885	6707230	8005 J

## Circlip pliers X-GRIP

## 8006 X-GRIP

**Particularly versatile:**

- > Universal circlip pliers for risk-free gripping and fitting of internal and external circlips (DIN 471/472) from 252 to 1000 mm diameter
- > Particularly suited for working in confined spaces. Instead of using a long lever, the required force is transmitted by a threaded spindle. This ensures safe, fatigue-free gripping. Operated by a 15 mm open ended spanner or a 3/8" ratchet (e.g. 3093 Z-94)
- > Solid, hardened sliding bar ensures parallel tip action
- > Stop lugs reliably prevent circlips slipping off
- > Quick changeover between internal and external circlips by rotating tips through 180°
- > Tips made from tempering steel, carefully hardened and annealed, easy to replace



## 8006

### X-GRIP CIRCLIP PLIERS

mm	mm	mm		Code	No.
252-1000	4.5	5,9	3.040	1394401	8006

## S 8006

### X-GRIP CIRCLIP PLIERS SET

- > Universal circlip pliers for risk-free gripping and fitting of internal and external circlips (DIN 471/472) from 252 to 1000 mm diameter
- > Plier with adaptor, basic body - no. 1/2 + tip Ø 5.9 mm and no. 3/4 + tip Ø 4.5 mm

**Special tools for changing tips and adaptors:**

- > Single open ended spanner no. 894 10 + 894 15
- > Hexagon socket key no. 42 2 mm
- > 4 Spare threaded pins M4x4
- > Ratchet no. 3093 Z-94 (for quick adjustment)
- > Plastic box E-1000 P
- > Rugged sheet steel case with foam insert



	Code	No.
7.3	1896237	S 8006

## E-8006

### X-GRIP PARTS

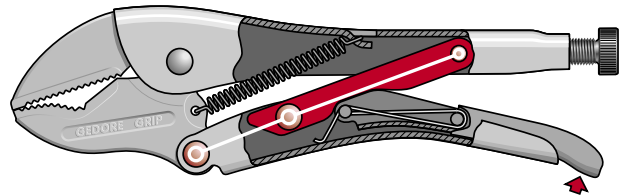
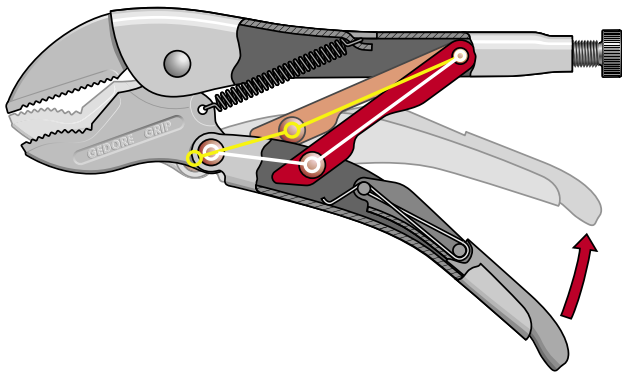
Description		Code	No.
<b>Basic body no. 1 with spare tip 5.9 mm Ø</b>	0.080	1575333	E-8006 1
<b>Basic body no. 2 with spare tip 5.9 mm Ø</b>	0.080	1575341	E-8006 2
<b>Basic body no. 3 with spare tip 4.5 mm Ø</b>	0.117	1896245	E-8006 3
<b>Basic body no. 4 with spare tip 4.5 mm Ø</b>	0.117	1896253	E-8006 4
<b>Spare tip 4.5 mm Ø</b>	0.005	1896369	E-8006 X 4,5
<b>Spare tip 5.9 mm Ø</b>	0.005	1896350	E-8006 X 5,9
<b>Spindle with spindle bearing, 265 mm long</b>	0.470	1910620	E-8006 X

## Grip Wrenches

# THE TOGGLE LEVER - A GIANT AMONG THE JOINTS

- > Similar in construction to the human leg and consisting of hip, knee and ankle joints
- > The knee joint's intelligent power management is its unbeatable advantage:
- > Clever utilization of the physical lever laws \*)
- > Rapid and powerful even with a reduced operating force
- > Ideal for optimum pressure and clamping operations

- > Maximum pressing/clamping force with knee lever extended – even with automatic locking effect i.e. self-clamping effect (e.g. with grip pliers) relieved by operating the releasing lever
- > Constant high quality of work



Self-clamping effect – can only be cancelled by operating the releasing lever!

\*) Considerable paths are rapidly bridged involving little hand power. Just before "stretching", a short path is covered with an exceptional lever force. That is why it is used everywhere where considerable paths need to be initially covered without any noticeable force used and where the real "work" needs to be done over the last few millimetres. This is the case, for instance, with bolt cutters and crimping/grip pliers.

## 137 GRIP WRENCH

- > With adjusting screw and release lever, model 137 10 with blue dip-insulated lever
- > Forged, tempered jaws and special jaw shape for secure gripping, clamping and holding
- > GEDORE vanadium steel 31CrV3, nickel-plated
- > Jaw body in high-tensile sheet steel
- > Automatically welded upper jaw - absolutely firm connection with the sheet steel body

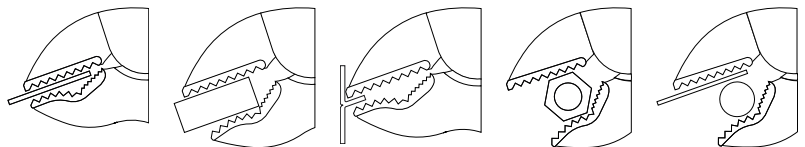
- > Well-conceived jaw design guarantees a three-point contact with all material cross-sections
- > Threaded bore welded at bottom
- > No widening under most extreme loading
- > Safe release
- > Release lever under constant pressure of special spring



137



137 10



↳ mm ↵	↳ "inch ↵	mm ↵	"inch ↵	↵ kg	Code	No.
185	7	25	1	0.288	6406620	137 7
230	10	32	1.1/4	0.526	6406700	137 10
260	11	45	1.3/4	0.790	6407270	137 11
300	12	45	1.3/4	1.042	6406890	137 12

1500 ES-137

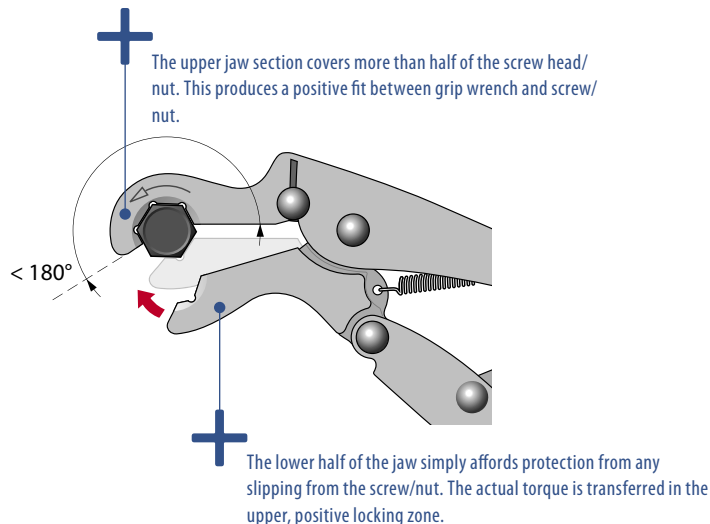


> 103

# 137 GRIP WRENCH

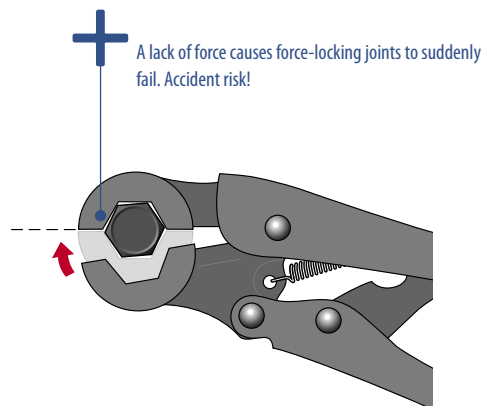
The difference comes from the special profile and shape.

> Positive fit joint to the screw/nut is down to the special design of the plier jaw\*



## GEDORE

- > Off-centre hexagonal division
- > positive fit



## COMPETING COMPANY

- > Centre hexagonal division
- > force locking

\* Positive fit joints are not suddenly released. They need, in fact, to change their geometric form; a visible change in form quasi announces their failure.



## A GEDORE SAFETY "EXTRA"

# 137 GRIP WRENCH

- > For working in confined spaces
- > For worn bolted connections which otherwise could only be opened with extreme difficulty

- > Problem-solver for vehicles and industrial purposes
- > Particularly suitable for brake lines, adjustment of track rods, etc.



Ø mm	Ø AF	l< mm >l	⚖	Code	No.
10		190	0.324	2325314	137 7-10
11	7/16	190	0.321	2325322	137 7-11
12		195	0.329	2325330	137 7-12
13		195	0.326	2325349	137 7-13
14		198	0.343	2325357	137 7-14
15	19/32	198	0.346	2325365	137 7-15
16	5/8	250	0.591	2325373	137 10-16
17		250	0.587	2325381	137 10-17

Ø mm	Ø AF	l< mm >l	⚖	Code	No.
18		255	0.607	2325403	137 10-18
19	3/4	255	0.600	2325411	137 10-19
20	25/32	258	0.623	2325438	137 10-20
21		258	0.620	2325446	137 10-21
22		260	0.630	2325454	137 10-22
24		253	0.642	2788349	137 10-24
27		258	0.645	2788357	137 10-27



## 139 SPECIAL GRIP WRENCH

- > With movable lower jaw for clamping over a large area
- > Release lever blue dip-insulated
- > Nickel-plated



↳ mm	↳ inch	mm	inch	kg	Code	No.
250	10	45	1.3/4	0.577	6407940	139

## 137 KR GRIP WRENCH, LONG JAWS

- > With narrow jaws
- > For working in confined spaces
- > For clamping air and brake lines up to Ø 10 mm, copper lines Ø 12 mm
- > Nickel-plated



↳ mm	kg	Code	No.
210	0.292	1954113	137 KR-7
255	0.540	1868039	137 KR-10

## 137 P PARALLEL JAW GRIP WRENCH

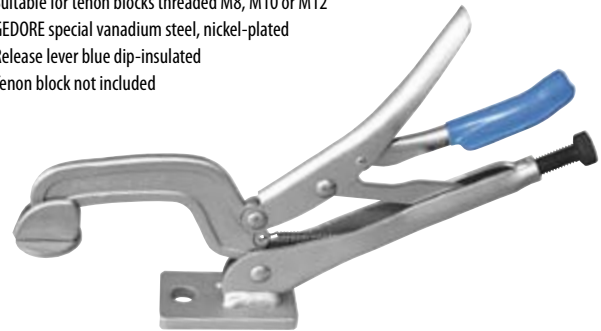
- > With parallel jaws
- > Opening: 50 mm
- > With adjustment screw
- > Release lever under constant pressure of special spring
- > Body from sheet steel
- > Nickel-plated



↳ mm	↳ inch	mm	inch	kg	Code	No.
250	10	50	2	0.701	6407000	137 P

## 137 MSP MACHINE WORKBENCH CLAMP

- > For fast, secure clamping of a variety of workpieces
- > Suitable for tenon blocks threaded M8, M10 or M12
- > GEDORE special vanadium steel, nickel-plated
- > Release lever blue dip-insulated
- > Tenon block not included



↳ mm	↳ inch	mm	inch	kg	Code	No.
280	11	100	4	0.790	6408080	137 MSP

## 136 BM WIDE JAW GRIP WRENCH

- > For clamping edges and surfaces
- > 80 mm jaw width
- > Nickel-plated



↳ mm	↳ inch	mm	inch	kg	Code	No.
200	8	30	1.1/4	0.416	6406030	136 BM

## 137 T GRIP WRENCH FOR GLUEING

- > For clamping lengthwise or corner joints of extremely long bases and surrounds, lintels, banisters and frames, arched windows, worktops, corner benches, etc.
- > Release lever blue dip-insulated
- > Nickel-plated
- > The workpieces to be glued are placed

together, with the grip open, the drill holes for the clamping pins are marked, and 9 - 10 mm Ø holes drilled. Glue is applied, the wrench pushed into the holes, the pieces aligned and the clamping lever closed - the work is finished



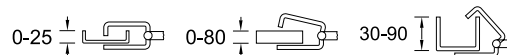
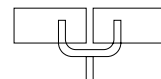
↳ mm	↳ inch	mm	inch	kg	Code	No.
220	9	30-60	1.1/4-2.1/2	0.494	6403600	137 T



# 138 WELDER'S GRIP WRENCH

- > For clamping strips and profile sections when welding
- > Cast steel jaws

- > Nickel-plated
- > Release lever blue dip-insulated

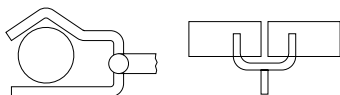


mm	inch	kg	Code	No.
280	11	0.960	6407350	138

# 138 X WELDER'S GRIP WRENCH FOR TUBES

- > For clamping tubes and round stock when welding
- > Cast steel jaws

- > Nickel-plated
- > Release lever blue dip-insulated



mm	inch	mm	inch	kg	Code	No.
280	11	10-90	3/8-3.1/2	0.967	6407510	138 X

# 138 Y PROFILE-SECTION GRIP WRENCH

- > For clamping bulky profile and angle sections
- > Strong forged jaws

- > GEDORE special chrome-vanadium steel, nickel-plated
- > Release lever blue dip-insulated



mm	inch	mm	inch	mm	inch	kg	Code	No.
280	11	95	3.3/4	75	3	0.763	6407860	138 Y

# 138 Z PROFILE-SECTION GRIP WRENCH

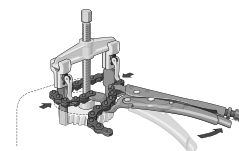
- > For clamping extremely bulky profile sections
- > Jaws made from forged and welded GEDORE special chrome-vanadium steel
- > Particularly great clamping depth
- > Nickel-plated
- > Release lever blue dip-insulated



mm	inch	mm	inch	mm	inch	kg	Code	No.
460	18	280	11	250	10	1.164	6410730	138 Z-460
600	24	400	16	400	16	1.428	6410810	138 Z-600

# 136 K CHAIN GRIP WRENCH

- > Particularly suited for clamping geometrically problematical cross-sections
- > With No. 136 K-105 the legs of various pullers - following locking - can be spanned with the chain at the component to be extracted and tightened. This stops the legs bending outwards and slipping. Pulling is still possible even if the legs have a very restricted contact surface



max. Ø	mm	kg	Code	No.
330	1050	1.5	2307227	136 K-105

# GEDORE PIPE WRENCHES

## TOP QUALITY TO MEET MAXIMUM REQUIREMENTS

- › Use of the most up-to-date machinery and environmentally-friendly production processes
- › Everything is based on tightly controlled and selected materials
- › Experienced and reliable specialists vouch for precision-like processing
- › Stringent quality checks after each production step ensure a constantly high level
- › High-grade industrial quality for the toughest forms of continuous use and safety in everyday work

### Everything handled down to a tee

The absence of Chrome 6 in the tools is simply a matter of course for us and has been so for many years. Best-possible results are down to the unique manufacturing processes and special treatment for tools

### Pipe wrenches subject to full hardening/tempering

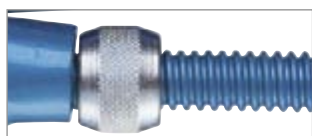
All GEDORE Swedish pipe wrenches **are hardened and tempered** across their entire length and cross-section.

### Serrated face flame-hardening

All GEDORE Swedish pipe wrenches are additionally flame-hardened at the teeth by a hardness unit developed by our Special Machinery Construction section. A uniform distribution of temperature across the entire jaw surface ensures a stress-relieved additional hardening of the surface of the teeth. The DIN specified hardness values are surpassed with ease by GEDORE pipe wrenches. The grip holds up for years even under the rough and tough daily routine.

### Round thread with undetachable adjusting nut

A non-detachable adjusting nut with round thread ensures a width adjustment. A round thread stands up better than other thread types to mechanical damage and soiling. It allows the adjusting nut on the pliers shaft to run rapidly, evenly and precisely.



### Self-clamping serrated face

The self-clamping serrated face grips reliably and firmly and this is intensified as the turning resistance is increased. There is no need to press the handles together. GEDORE Swedish pipe wrenches have that non-slip grip - even on smooth pipes.



# ECK-SCHWEDE-SNAP® - THE SWEDISH

Tried and tested bestseller with a powerful grip for more than 50 years

(1) The special, supplementary flame hardening of the teeth increases and improves the grip and durability of the snap®

(2) Force is always applied by snap® simultaneously at three points, ensuring a secure grip with low hand pressure

(3) Hook and leg made from drop-forged GEDORE special chrome-vanadium steel, hardened and tempered

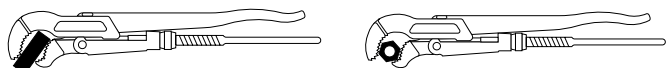
(4) Stove enamelling guarantees long-life protection

(5) The mouth of the jaw opening is always narrower than the pipe diameter, reliably preventing the workpiece from slipping out. Securely grips pipes and screw couplings

## WORKING PRINCIPLE



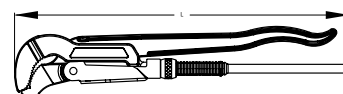
The jaw form of the snap® reliably prevents the workpiece slipping out, and ensures maximum freedom of movement in confined spaces



The curvature of the jaws adapts ideally to different profiles, enabling the snap® to grip hexagonal nuts - gently and securely

## 100 PIPE WRENCH ECK-SCHWEDE-SNAP®

- > Acc. to DIN 5234, Form C
- > Heavy-duty pipe wrench with three-point grip
- > For working in confined spaces
- > GEDORE special chrome-vanadium steel
- > Drop forged
- > Tempered, teeth additionally hardened
- > Self-gripping by teeth offset against direction of rotation
- > Roller secured against loss
- > Stove enamelled blue, head ground

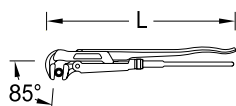


Size	mm	L		Code	No.
1/2	35	245	0.380	4500060	100 1/2
1	48	320	0.800	4500140	100 1
1.1/2	60	420	1.400	4500220	100 1.1/2
2	80	550	2.240	4500300	100 2
3	110	630	3.580	4500490	100 3

## 175 PIPE WRENCH

Swedish pattern

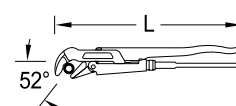
- › Acc. to DIN 5234 Form A
- › Especially sturdy type for heavy use
- › Head angled 85°
- › GEDORE special chrome-vanadium steel
- › Drop forged
- › Tempered, teeth additionally hardened
- › Self-gripping by teeth offset against direction of rotation
- › Roller secured against loss
- › Stove enamelled blue



Size	mm	L	kg	Code	No.
3/4	38	280	0.505	6437260	175 3/4
1	44	320	0.695	6437340	175 1
1.1/2	62	430	1.470	6437420	175 1.1/2
2	76	580	2.550	6437500	175 2
3	105	670	3.780	6437690	175 3
4	130	760	5.635	6437770	175 4

## 176 ELBOW PIPE WRENCH ECK-SCHWEDE®

- › Acc. to DIN 5234 Form B
- › For working in confined spaces
- › Narrow head, multi-grip jaw pattern, angled 52°
- › GEDORE special chrome-vanadium steel
- › Drop forged
- › Tempered, teeth additionally hardened
- › Self-gripping by teeth offset against direction of rotation
- › Roller secured against loss
- › Stove enamelled blue



Size	mm	L	kg	Code	No.
3/4	38	280	0.445	6438070	176 3/4
1	44	320	0.775	6438150	176 1
1.1/2	62	430	1.405	6438230	176 1.1/2
2	76	580	2.570	6438310	176 2
3	105	670	3.640	6438580	176 3

## 9100 2K PIPE WRENCH

- › Acc. to DIN 5234, Form C
- › For working in confined spaces
- › GEDORE special chrome-vanadium steel
- › Drop forged
- › Tempered, teeth additionally hardened
- › Self-gripping by teeth offset against direction of rotation

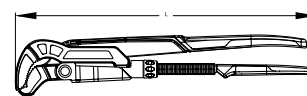
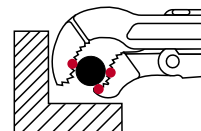
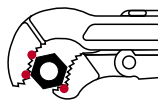
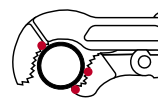
- › Non-slip surfaces, in sizes 1" and 1.1/2" with 2-component handles
- › Roller secured against loss
- › Stove enamelled blue



1 / 1.1/2



1/2 / 2 / 3



Size	2C-handle	mm	L	kg	Code	No.
1/2		35	245	0.400	2530252	9100 2K 1/2
1	X	48	320	0.800	2530260	9100 2K 1
1.1/2	X	60	420	1.400	2530279	9100 2K 1.1/2
2		80	550	2.200	2530287	9100 2K 2
3		110	630	3.600	2530295	9100 2K 3



## E-100 / E-175 / E-9100 SET OF SPARES

- > A = Roller / Adjuster screw
- > B = Circlip



No. 100	No. 175	No. 176	No. 9100		Code	No.
1/2				0.010	2133792	E-100 A 1/2
1	1			0.030	1682938	E-100 A 1
1.1/2	1.1/2			0.040	1737597	E-100 A 1.1/2
2 + 3	2			0.070	1628984	E-100 A 2
	3/4	3/4		0.010	5435000	E-175 A 3/4
	1			0.030	5435190	E-175 A 1
	1.1/2			0.040	5435270	E-175 A 1.1/2

No. 100	No. 175	No. 176	No. 9100		Code	No.
	2			0.070	5435350	E-175 A 2
	3	3		0.070	5435430	E-175 A 3
	4			0.080	1391607	E-175 A 4
			1/2	0.003	2601028	E-9100 A 1/2
			1	0.010	2601273	E-9100 A 1
			1.1/2	0.012	2601281	E-9100 A 1.1/2
			2 + 3	0.025	2601311	E-9100 A 2
1/2	3/4 + 1	3/4	1/2	0.001	5436240	E-100 B 1/2
1	1.1/2	1	1	0.002	5436400	E-100 B 1
1.1/2	2	1.1/2	1.1/2	0.001	5436590	E-100 B 1.1/2
2 + 3	3 + 4	2 + 3	2 + 3	0.020	5436670	E-100 B 2

## 225 PIPE WRENCH

NEW

- > Stillson type
- > Hot-drop forged
- > Forged parts tempered
- > Self-gripping by teeth offset against direction of rotation
- > GEDORE special hardened and tempered steel



L mm	L" inch	mm	"inch	Ø"inch		Code	No.
250	10	33.5	1.3/8	1	0.480	2964813	225 10
300	12	42.0	1.3/4	1.1/4	0.680	2964821	225 12
350	14	48.0	1.7/8	1.1/2	0.940	2964848	225 14
450	18	60.0	2.3/8	2	1.550	2964856	225 18
600	24	75.5	3	2.1/2	2.480	2964864	225 24
900	36	102.0	4	3.1/2	4.820	2964872	225 36

## 227 PIPE WRENCH

American pattern

- > Extra heavy type
- > Forged parts tempered
- > Teeth offset against direction of rotation and induction-hardened
- > Handle made from malleable cast iron, stove enamelled
- > GEDORE special hardened and tempered steel, ground



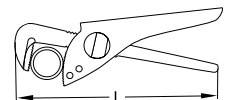
L mm	L" inch	mm	"inch	Ø"inch		Code	No.
190	8	38	1.1/2	1	0.440	6453030	227 8
245	10	48	1.7/8	1.1/2	0.850	6453110	227 10
325	14	60	2.3/8	2	1.751	6453460	227 14
415	18	76	3	2.1/2	2.701	6453540	227 18
560	24	89	3.1/2	3	4.280	6453620	227 24

## 152 HIGH-SPEED PIPE WRENCH

with screw adjuster

- > GEDORE blue powder-coated
- > Forged components
- > Induction-rehardened serrated faces

- > Quick and easy setting with screw adjuster - single-hand adjustment
- > Gripping faces selfinhbiting



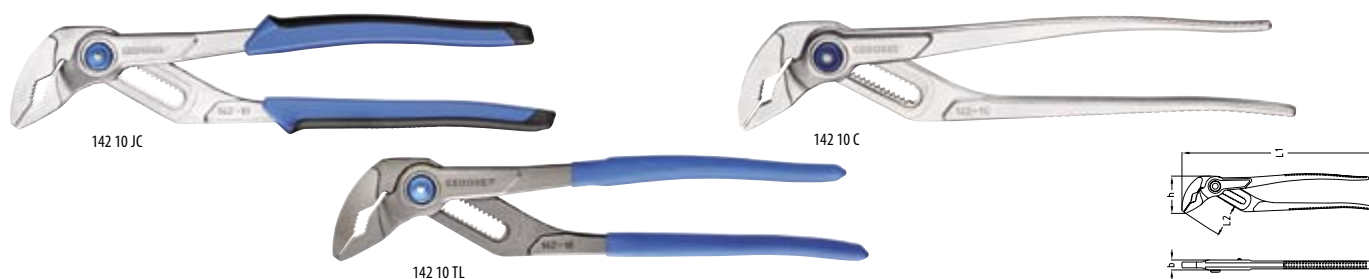
L	L"	mm	"inch	Pipes	Sockets		Code	No.
178	7	35	1.3/8	1"	3/4"	0.300	6419280	152 7
228	9	42	1.5/8	1.1/4"	1"	0.531	6419360	152 9
281	11	61	2.3/8	2"	1.3/4"	0.851	6419440	152 11

L	L"	mm	"inch	Pipes	Sockets		Code	No.
315	12	74	3	2.1/2"	2"	1.038	6419520	152 12
360	14	90	3.9/16	3"	-	1.656	6419600	152 14

## Water Pump / Universal Pliers

142  
UNIVERSAL PLIERS

- > Acc. to DIN ISO 8976 Form C
- > With safety box joint and protection against blocking
- > Fine adjustment
- > 142 7 = 17 settings
- > 142 10 = 15 settings
- > 142 12 = 17 settings
- > Single-hand push-button adjustment
- > Slender pliers head for places that are hard to access
- > Long slim jaws
- > Offset gripping faces for self-gripping of nuts and pipes
- > GEDORE special chrome-vanadium steel
- > Induction-rehardened serrated faces
- > Model C = slim handles with forged serrations
- > Model TL = steel-grey, with blue dipped handle protectors
- > Model JC = chrome-plated, with 2-component handles

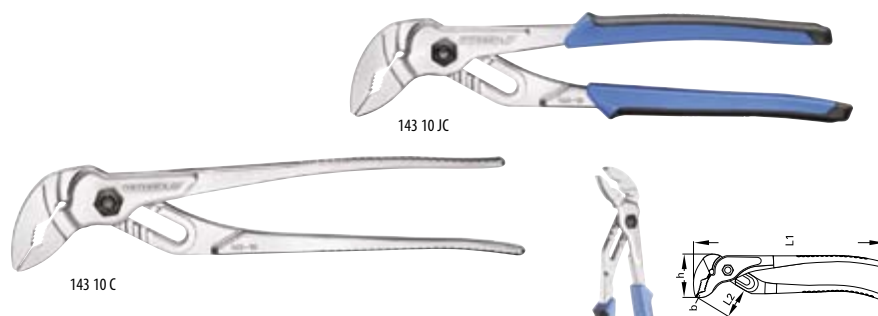


L <sub>1</sub>	L <sub>2</sub>	b	h	mm	mm	Code	No.	L <sub>1</sub>	L <sub>2</sub>	b	h	mm	mm	Code	No.
180	32	6.5	40	37	0.183	2668211	142 7 TL	260	39	7.5	48	38	0.417	6416340	142 10 JC
180	32	6.5	40	37	0.173	2668238	142 7 C	309	43	8.5	55	44	0.550	1995413	142 12 TL
255	39	7.5	48	38	0.371	6416180	142 10 TL	300	43	8.5	55	44	0.530	1995553	142 12 C
250	39	7.5	48	38	0.380	6416260	142 10 C								

143  
UNIVERSAL PLIERS

6 settings

- > Acc. to DIN ISO 8976 Form B
- > Slim head
- > Forged twin-groove lay-on slip joint and toothed recess
- > Offset gripping faces for self-gripping of nuts and pipes
- > With finger protection
- > For pipes up to 1.1/2" and nuts up to 38 mm
- > GEDORE special chrome-vanadium steel, chrome-plated
- > Induction-rehardened serrated faces
- > Model C = slim handles with forged serrations
- > Model JC = chrome-plated, with 2-component handles



L <sub>1</sub>	L <sub>2</sub>	b	h	mm	mm	Code	No.
256	40	10.6	56	38	0.340	6410650	143 10 C
262	40	10.6	56	38	0.390	6415880	143 10 JC

144  
MECHANICS PLIERS

7 settings

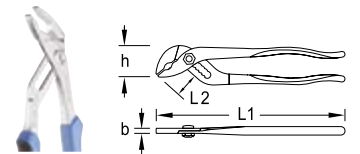
- > Acc. to DIN ISO 8976 Form A
- > Lay-on slip joint and straight, serrated jaws
- > GEDORE special chrome-vanadium steel
- > Induction-rehardened serrated faces



L <sub>1</sub>	L <sub>2</sub>	b	h	mm	mm	Code	No.
113	13	3.8	23	16	0.042	6411110	144 4.1/2 C
175	22	5.5	35	26	0.138	6411380	144 7 C

# 145 WATER PUMP PLIERS

- > Acc. to DIN ISO 8976 Form A
  - > Lay-on slip joint and toothed recess
  - > Induction-rehardened serrated faces, with finger protection
  - > Clamps automatically on pipes and nuts
  - > GEDORE special chrome-vanadium steel, chrome-plated
- > Model C = handles cross-hatched
  - > Model JC = with 2-component handles
  - > 145 10 = 7 settings, with extra narrow jaws
  - > 145 15 = 9 settings
  - > 145 20 = 11 settings

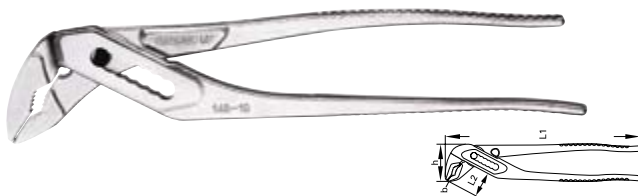


L <sub>1</sub>	L <sub>2</sub>	b	h	mm		Code	No.
250	41	7.8	47	39	0.365	6412000	145 10 C
260	41	7.8	47	39	0.425	6415610	145 10 JC
375	46	10.4	72	50	0.854	6412190	145 15 C
500	55	13.8	98	65	1.747	6412270	145 20 C

# 146 UNIVERSAL PLIERS

7 settings

- > Acc. to DIN ISO 8976 Form C
  - > With safety box joint and finger protection
  - > Automatic clamping with offset gripping surfaces
  - > GEDORE special chrome-vanadium steel, chrome-plated, with polished surface
- > Induction-rehardened serrated faces
  - > Model C = slim handles with forged serrations
  - > Model JC = chrome-plated, with 2-component handles



L <sub>1</sub>	L <sub>2</sub>	b	h	mm		Code	No.
250	32.5	4.8	48	31	0.335	6413240	146 10 C
250	32.5	4.8	48	31	0.400	2672626	146 10 JC

# 146 B SPECIAL WATER PUMP PLIERS

5 settings

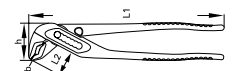
- > Acc. to DIN ISO 8976 Form C
  - > With fast adjustment and tooth-lock box joint and toothed aperture
  - > Absolutely safe - no slipping out of adjustment during work
- > With finger protection
  - > GEDORE special chrome-vanadium steel, chrome-plated, polished



L <sub>1</sub>	L <sub>2</sub>	b	h	mm		Code	No.
250	45	8	55	50	0.485	6412510	146 B 10

# 9144 WATER PUMP PLIERS

- > Acc. to DIN ISO 8976
- > Chrome-vanadium steel
- > With box joint
- > Drop forged



L <sub>1</sub>	L <sub>2</sub>	b	h	mm		Code	No.
175	28	7.0	33	26	0.150	4533230	914417
240	35	7.5	40	33	0.290	4533310	914424
300	40	9.0	60	45	0.480	4533580	914430



## Chain Pipe Wrenches

### 120 CHAIN PIPE WRENCH BOSS

- > Ideal for use in areas with restricted access
- > Ratchet-type operation
- > Plastic grip prevents hand from slipping off
- > Handle in GEDORE special chrome-vanadium steel



- > Drop forged
- > Tempered, teeth additionally hardened
- > Stove enamelled blue

### E 120 SPARE CHAIN BOSS



Size	∅ mm	l mm	kg	Code	No.
3/8-4	17-114	355	0.840	4502350	120000

l mm	kg	Code	No.
450	0.320	4535280	120200

### 122 CHAIN PIPE WRENCH

American pattern

- > High efficiency due to maximum-possible lever action
- > Tempered steel acc. to EN 10083
- > With hardened exchangeable jaws, toothed on both sides
- > Stove enamelled blue



### E 122 SPARE CHAIN



Size	l mm	kg	Code	No.
1/8-2	380	0.725	4548500	122202
1/4-3	490	0.950	4548690	122203
3/4-4	610	1.410	4548770	122204
1-6	850	2.200	4548850	122206
1.1/2-8	1080	3.300	4548930	122208
2-12	1450	5.740	4549070	122212

### E 122 SPARE JAWS (PAIR)



Size	∅ mm	l inch	l mm	kg	Code	No.
1/8-2	10-60	20	510	2.5	4535360	122002
1/4-3	13-89	28	710	4.0	4535440	122003
3/4-4	27-114	37	940	6.6	4502430	122004
1-6	33-168	43	1090	9.1	4502510	122006
1.1/2-8	48-219	50	1275	13.0	4548340	122008
2-12	60-324	63	1600	22.1	4548420	122012

Size	kg	Code	No.
1/8-2	0.340	4549150	122302
1/4-3	1.030	4549230	122303
3/4-4	1.520	4549310	122304
1-6	2.100	4549580	122306
1.1/2-8	2.640	4549660	122308
2-12	4.450	4549740	122312



## Special Pliers

### 8385 WIRE TWISTING PLIERS

- > For twisting and cutting
- > GEDORE special hardened and tempered steel, gun-metal finish
- > Angled by 45°
- > Extra narrow head shape
- > Cross-hatched gripping face for better "wire grip"
- > Twists wires from 0.5 to 1.6 mm Ø
- > Clockwise or counterclockwise twisting, adjustable by turning handle
- > Automatic resetting
- > Cutting edge with FOD (= No Foreign Object Damage). The special red plastic coating securely holds the rest of the cut wire. This rules out the wire being accidentally lost.



mm	inch	kg	Code	No.
229	9	0.400	1979957	8385

### 8386 CONNECTOR PLIERS

- > With lap joint
- > 3 settings
- > Protects sensitive surfaces
- > Particularly suitable for Canon-Connectors or other screw connectors
- > Plastic jaws bolted and replaceable (No. E-8386), jaw width 11 mm
- > GEDORE high-performance hardened and tempered steel, chrome-plated
- > Handles dip-insulated



mm	kg	Code	No.
20-60	0.300	2003481	8386
	0.010	2003694	E-8386

### 304 SEAMING PLIERS

straight pattern

- > Straight pattern
- > Forged



mm	mm	kg	Code	No.
60	265	0.590	4508550	304060

### 305 SEAMING PLIERS

bent pattern

- > Bent pattern, bending angle 45°
- > Forged



mm	mm	kg	Code	No.
60	265	0.630	4508630	305060

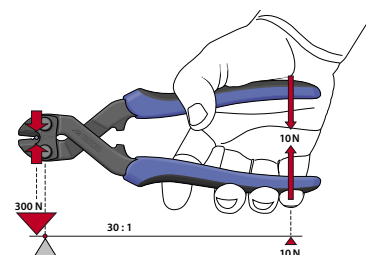
## Bolt Cutters

### 8340 / 8340 Z BOLT CUTTERS

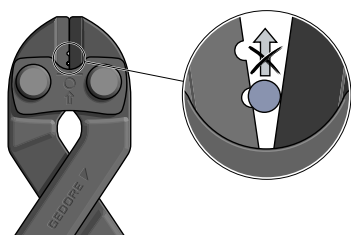


- > Compact power bolt cutter with a particularly effective cutting performance
- > Optimum lever action requires less effort
- > Wear-free rotating/thrust block bolt to reduce sliding friction when cutting
- > Force optimised, joint-near cutting is guaranteed

- > The effective force multiplication ratio of 1:30 results of the joint-near use of the cutting edge
- > Here the lever ratio of hand to cutting force is optimal
- > A gliding ahead from this cutting position is prevented by the micro-grooves resp. the additional cutting edge

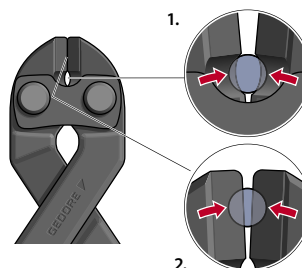


#### 8340



- > With a cut soft, medium-hard or hard wires up to 4 mm Ø are separated
- > The gliding ahead of the cutting material is prevented by two one-sided micro-grooves and thus is always stays in optimal cutting position

#### 8340 Z



- > With two cuts soft, medium-hard or hard wires from 4 to 6 mm Ø are separated
- > The extra cutting edge (1) serves as first cut for thick bolts and engraves them deeply
- > In the second step, the main cutting edge (2) cuts through the bolt completely

### 8340 BOLT CUTTER

- > Compact power bolt cutter with a particularly effective cutting performance
- > Optimum lever action requires less effort
- > Wear-free rotating/thrust block bolt to reduce sliding friction when cutting
- > Cutting edges additionally inductively hardened (63 - 65 HRC)
- > The gliding ahead of the cutting material is prevented by two one-sided micro-grooves and thus is always stays in optimal cutting position
- > Precision cutting edges for soft wire up to Ø 6.0 mm, hard and piano wire up to Ø 3.8 mm
- > Model JL = steel-grey
- > Model TL = steel-grey, with blue dipped handle protectors

### 8340 Z BOLT CUTTER

- > Compact power bolt cutter with a particularly effective cutting performance
- > Optimum lever action requires less effort
- > Wear-free rotating/thrust block bolt to reduce sliding friction when cutting
- > Cutting edges additionally inductively hardened (63 - 65 HRC)
- > Double-sided recess cutting with extra cutting edge, near the joint, ensures optimum lever conditions for large wire diameters
- > The extra cutting edge serves as first cut for thick bolts and engraves them deeply
- > In the second step, the main cutting edge cuts through the bolt completely
- > Precision cutting edges for soft wire up to Ø 6.0 mm, hard wire up to Ø 5.5 mm and piano wire up to Ø 3.8 mm
- > Model JL = steel-grey
- > Model TL = steel-grey, with blue dipped handle protectors



8340-200 JL



8340 Z-200 JL



8340-200 TL



8340 Z-200 TL

l - mm ▶	kg	Code	No.
200	0.389	2541300	8340-200 JL
200	0.338	2541289	8340-200 TL

l - mm ▶	kg	Code	No.
200	0.389	2666324	8340 Z-200 JL
200	0.338	2666316	8340 Z-200 TL



## 8178 BOLT CUTTER

- > Acc. to DIN ISO 5743
- > Double cam bolt adjustment
- > Cutting head replaceable
- > Cutting heads from chrome-vanadium steel
- > Max. cutting performance 44 HRC



max. $\bullet$ mm	mm	inch	$\frac{kg}{lb}$	Code	No.
5	460	18	1.680	2675137	8178 460
7	620	24	2.460	2675145	8178 620
8	780	30	4.700	2675153	8178 780
9	900	36	5.000	2675161	8178 900

## E-8178 SPARE CUTTING HEAD

$\frac{kg}{lb}$	Code	No.
0.440	2675196	E-8178 460
0.800	2675218	E-8178 620
1.460	2675226	E-8178 780
1.470	2675234	E-8178 900

## 8179 CONCRETE MESH AND BOLT CUTTER

- > Acc. to DIN ISO 5743
- > Double cam bolt adjustment
- > Cutting head replaceable
- > Cutters from chrome-vanadium steel
- > Max. cutting performance in round stock 40 HRC, 9 mm or 2 x 8 mm



max. $\bullet$ mm	mm	$\frac{kg}{lb}$	Code	No.
9/2x8	900	3.500	2675188	8179 900

## E-8179 SPARE CUTTING HEAD

$\frac{kg}{lb}$	Code	No.
0.980	2675242	E-8179 900

## Blacksmith's tongs

### 230 BLACKSMITH'S TONGS

- > Flat nosed



mm	for workpieces	$\frac{kg}{lb}$	Code	No.
300	6 mm	0.500	8842510	230-300
400	8 mm	0.860	8842780	230-400
500	10 mm	1.240	8842860	230-500
600	14 mm	1.710	8842940	230-600

### 231 BLACKSMITH'S TONGS

- > Round nosed



mm	for workpieces	$\frac{kg}{lb}$	Code	No.
400	12 mm	0.870	8843590	231-400
500	16 mm	1.220	8843670	231-500

### 233 BLACKSMITH'S TONGS

- > Wolf's jaw



mm	for workpieces	$\frac{kg}{lb}$	Code	No.
300	6 mm	0.610	8845100	233-300
400	8 - 10 mm	0.930	8845290	233-400
500	12 mm	1.320	8845370	233-500

## Plier assortments

- › Produced in-house by GEDORE Austria
- › Combination, flat-nosed, round-nosed and mechanics pliers made from GEDORE special hardened and tempered steel
- › Side cutters and end cutting nippers made from GEDORE high-performance hardened and tempered steel
- › JC = chrome-plated, 2-component handle protectors
- › TL = clear varnished, with blue dipped non-slip handles
- › Hot-forged tempered steel
- › Precision machined, oil-hardened and annealed
- › Induction-rehardened cutting edges
- › Protective nickel and chrome plating
- › Optimum transfer of force
- › High cutting performance
- › Fatigue-free, even in constant use
- › Guaranteed GEDORE quality

### S 8003 JC PLIERS SET

3 pieces

- › Practical set composition in environmentally-friendly cardboard box
- › JC = chrome-plated, with 2-component handles





### S 8003 TL PLIERS SET

3 pieces

- › Practical set composition in environmentally-friendly cardboard box
- › TL = steel-grey, with blue dipped non-slip handles



Contents		Code	No.
8132-160 JC	0.766	6701110	S 8003 JC
8250-180 JC			
8316-160 JC			

Contents		Code	No.
8132-160 TL	0.642	6755470	S 8003 TL
8250-180 TL			
8316-160 TL			

#### VDE S 8003 H

›587



#### VDE S 8003

›587



## S 8200 JC PLIERS SET

4 pieces

- › Practical set composition in environmentally-friendly cardboard box
- › JC = chrome-plated, with 2-component handles



Contents		kg	Code	No.
8098-160 JC	8250-180 JC	0,927	6730800	S 8200 JC
8132-160 JC	8314-160 JC			

## S 8303 JC PLIERS SET

3 pieces

- › Practical set composition in environmentally-friendly cardboard box
- › JC = chrome-plated, with 2-component handles



Contents	kg	Code	No.
142 10 JC	1.005	6703160	S 8303 JC
8250-180 JC			
8316-160 JC			

## S 8303 TL PLIERS SET

3 pieces

- › Practical set composition in environmentally-friendly cardboard box
- › TL = steel-grey, with blue dipped non-slip handles



Contents	kg	Code	No.
142 10 TL	0.880	6703910	S 8303 TL
8250-180 TL			
8316-160 TL			

1101-142-2150

›59



1102 L

›63



# 1101-002 PLIERS SET

**NEW**

6 pieces

- > Practical set composition in sturdy plastic case
- > JC = chrome-plated, with 2-component handles
- > In GEDORE i-BOXX® 72 no. 1101 L
- > Dimensions: W 367 x D 316 x H 72 mm



Contents		kg	Code	No.
8098-160 JC	8132-160 JC	1,740	1708155	1101-002
8120-160 JC	8250-180 JC			
8122-160 JC	8316-180 JC			

# 1102-003 PLIERS SET

**NEW**

3 pieces

- > Practical set composition
- > JC = chrome-plated, with 2-component handles
- > In GEDORE L-BOXX® Mini, incl. divider set
- > Dimensions: W 260 x D 155 x H 63 mm



Contents		kg	Code	No.
8132-160 JC		0,940	1692305	1102-003
8250-180 JC				
8316-160 JC				

# 1102-007 PLIERS SET

**NEW**

3 pieces

- > Practical set composition
- > In GEDORE L-BOXX® Mini, incl. divider set
- > Dimensions: W 260 x D 155 x H 63 mm



Contents		kg	Code	No.
8132-200 JC		1.201	2951789	1102-007
8314-180 JC				
142 10 TL				

# 1102-008 PLIERS SET

**NEW**

3 pieces

- > Practical set composition
- > In GEDORE L-BOXX® Mini, incl. divider set
- > Dimensions: W 260 x D 155 x H 63 mm



Contents		kg	Code	No.
8316-160 JC		0.977	2951797	1102-008
8133-200 JC				
142 7 TL				



## Circlip pliers sets

### S 8000 SET OF CIRCLIP PLIERS

4 pieces

- > Most popular sizes, packed in environmentally-friendly cardboard box
- > Particularly suitable for barely accessible places
- > For internal and external circlip rings
- > With straight and 90° angled tips



Contents	kg	Code	No.
8000 A 2 A 21	0.756	6701030	S 8000
8000 J 2 J 21			



### S 8008 SET OF CIRCLIP PLIERS

8 pieces

- > Most popular sizes, packed in environmentally-friendly cardboard box
- > Particularly suitable for barely accessible places
- > For internal and external circlip rings
- > With straight and 90° angled tips



Contents	kg	Code	No.
8000 A 1 A 11 A 2 A 21	1.082	6700490	S 8008
8000 J 1 J 11 J 2 J 21			



### S 8100 SET OF CIRCLIP PLIERS

4 pieces

- > Most popular sizes, packed in environmentally-friendly cardboard box
- > Particularly suitable for barely accessible places
- > For internal and external circlip rings
- > With straight and 90° angled tips



Contents	kg	Code	No.
8000 A 1 A 2	0.597	6703080	S 8100
8000 J 1 J 2			



### S 8024 SET OF CIRCLIP PLIERS

4 pieces

- > Most popular sizes, packed in environmentally-friendly cardboard box
- > For automotive use
- > Particularly suitable for barely accessible places
- > For internal and external circlip rings
- > With straight and 45° angled tips



Contents	kg	Code	No.
8000 A 2 A 22	0.756	2148684	S 8024
8000 J 2 J 22			





## 5 8028 SET OF CIRCLIP PLIERS

8 pieces

- > Most popular sizes, packed in environmentally-friendly cardboard box
- > For automotive use
- > Particularly suitable for barely accessible places
- > For internal and external circlip rings
- > With straight and 45° angled tips



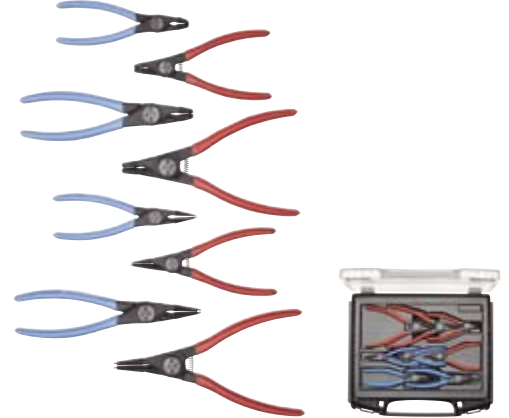
Contents	kg	Code	No.
8000 A 1 A 2 A 12 A 22	1.082	2148692	S 8028
8000 J 1 J 2 J 12 J 22			



## 1101-001 SET OF CIRCLIP PLIERS

8 pieces

- > Usual type of tool set packed in sturdy plastic case
- > Particularly suitable for barely accessible places
- > For internal and external circlip rings
- > With straight and 90° angled tips
- > In GEDORE i-BOXX® 72, with transparent cover for getting an immediate impression
- > Dimensions: W 367 x D 316 x H 72 mm



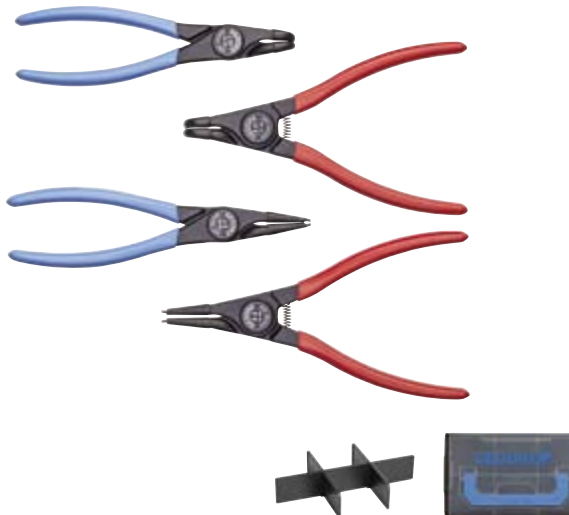
Contents	kg	Code	No.
8000 A 1 A 11 A 2 A 21	1.550	1692275	1101-001
8000 J 1 J 11 J 2 J 21			



## 1102-001 SET OF CIRCLIP PLIERS

4 pieces

- > Usual type of tool set
- > Particularly suitable for barely accessible places
- > For internal and external circlip rings
- > With straight and 90° angled tips
- > In GEDORE L-BOXX® Mini, incl. divider set
- > Dimensions: W 260 x D 155 x H 63 mm



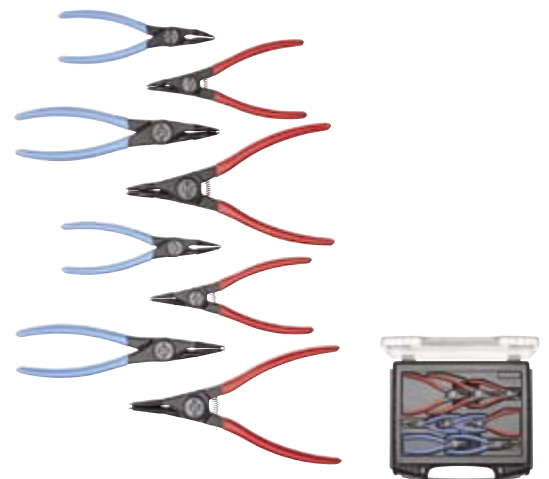
Contents	kg	Code	No.
8000 A 2 A 21	1.220	1692283	1102-001
8000 J 2 J 21			



## 1101-004 SET OF CIRCLIP PLIERS

8 pieces

- > Particularly suitable for barely accessible places
- > With straight and 45° angled tips
- > For the safe installation and removal of internal and external retaining rings up to a size of 60 mm
- > In GEDORE i-BOXX® 72, with transparent cover for getting an immediate impression
- > Dimensions: W 367 x D 316 x H 72 mm



Contents	kg	Code	No.
8000 A 1 A 12 A 2 A 22	1.550	2148706	1101-004
8000 J 1 J 12 J 2 J 22			



NEW





# PULLERS

2-/3-ARM UNIVERSAL  
EXTERNAL+INTERNAL  
PULLERS  
>433



2-/3-ARM UNIVERSAL  
EXTERNAL+INTERNAL PULLER  
SETS  
>437



SUMMARY OF PULLER LEGS  
>450



SPINDLE SUMMARY  
>452



BEARING ASSEMBLY  
>455



2-/3-ARM FAN / BATTERY-  
TERMINAL PULLERS  
>457



HYDRAULIC IMPLEMENTS  
>469



SEPARATORS  
>472



BALL BEARING EXTRACTORS  
>475



INTERNAL EXTRACTORS  
>480



SLIDING HAMMER  
>483



SPECIAL AUTOMOTIVE TOOLS  
>488



NUT SPLITTERS  
>491



THREADED INSERTS  
>492



ADD-ON SYSTEMS  
>493



# MANUFACTURING PROCESS OF A 2-ARM 1.06 PULLER

## CROSS-BEAM

**1**  
**Blank**  
from hard and tempered steel cut from the bar.



**2**  
**"Pre-upsetting"**  
Mighty hammer blows drop-forged the cut-to-length forging into the hot "pre-form".



**3**  
**Rough-forging**  
Powerful drop-hammer blows contour the cross-beam in the first die-sinking.



**4**  
**Final forging**  
The cross-beam obtains its ultimate shape in the second die-sinking.



**5**  
**De-burring**  
Excess burr is removed under an eccentric press.



**6**  
**Forged blank**  
Ready for further processing and finishing.



**7**  
**Calibrating**  
The width of the leg guide is calibrated and sand-blasted. Important for the following operations.



**8**  
**Grinding**  
Grinding the cross-beam on all sides.



**9**  
**Milling the leg guide**  
The height of the leg guide is milled to size.



**10**  
**Drilling**  
Tapped hole is drilled.



**11**  
**Cutting**  
The thread for the spindle is cut.



**12**  
**Zinc-plating**  
Electro-galvanized for corrosion protection.



**13**  
**Stamping**  
Manufacturer and Item No. are stamped on in a permanent fashion.



**14**  
**Lasering**  
The check-tool marking is lasered.



## SPINDLE

**1**  
**Blank**  
from hard and tempered steel cut from the bar.



**2**  
**Turning + drilling**  
Turn the spindle to measure and the drill hole for the spindle tip is inserted.



**3**  
**Rolling**  
The fine thread is rolled.



**4**  
**Nitro-carburating**  
Edge-layer hardening of the thread. The spindle is toughened at the edge and thus resistant to wear. The core remains "soft" and flexible and resiliently absorbs any stresses arising.



**5**  
**Riveting**  
Either the firm spindle tip is permanently riveted or the replaceable spindle tip inserted.



In line with the requirement, we hot-form the ideal steel for each puller sub-assembly.

## CLAMPING PARTS

**1**  
**Blank**  
made of hard and tempered steel and cut to size from the bar.



**2**  
**Upsetting**  
Mighty hammer blows drop-forged the cut-to-length forging into the hot "pre-form".



**3**  
**Rough-forging**  
Powerful drop-hammer blows contour the clamping parts in the first die-sinking.



**4**  
**Final forging**  
The clamping parts obtain their ultimate shape in the second die-sinking.



**5**  
**Hot de-burring**  
Still hot excess burr is removed under an eccentric press.



**6**  
**Forged blank**  
Ready for further processing and finishing.



**7**  
**Calibrating**  
The clamping part is calibrated and sand-blasted.



**8**  
**Perforating**  
The two holes for connection with the leg are cold-holed.



**9**  
**Zinc-plating**  
Electro-galvanizing protects the clamping part from corrosion.



**10**  
**Mounting**  
A pin and a screw and/or the quick-release clamp are for connecting two clamping parts to the leg.



## LEGS

**1**  
**Blank**  
made of 31CrV3 and cut to size from the bar.



**2**  
**Forging**  
Hot, drop-forged.



**3**  
**De-burring**  
Excess burr is removed under an eccentric press.



**4**  
**Calibrating**  
The leg is calibrated and sand-blasted.



**5**  
**Drilling**  
The holes for the clamps are drilled.



**6**  
**Milling**  
Milling provides the leg base with its optimum form.



**7**  
**Tempering**  
A special thermal treatment involving inert gas gives the leg its extreme hardness and toughness. Hardening ensures the required hardness and the annealing which follows imparts that toughness to the legs. Hardening and annealing together are referred to as tempering.



**8**  
**Sand-blasting**  
Sand-blasting is made use of to clean the surface before processing continues.



**9**  
**Zinc-plating**  
Electro-galvanizing protects the leg from corrosion.



**10**  
**Pressing-in**  
The connecting pin for the two clamping parts is pressed in.



# GEDORE PULLERS

The right tool for every demand placed

For maximum performance - even under a multi-ton load

- > High-grade industrial quality for the toughest forms of continuous use and safety in everyday work
- > Our innovative force over the past few years, which has given rise to numerous patents and utility models, is very much a reflection of our extensive track record in the development and production of puller tools.
- > Effortless moving of multi-ton loads
- > Ideal for the controlled use of force and a vital requirement for safe working: puller in association with a torque wrench

Intelligent designs - well thought-out components

- > The refined GEDORE pullers impress as much through their quality as they do through their user-friendliness and superiority in detail:
- > A lasered scale on the 2-arm cross-beam enable the legs to be symmetrically aligned
- > Leg brake and quick-release clamp are those rapid and assured ways of locking and fastening the puller legs
- > Both the nitro-carburised mechanical and hydraulic spindles have properties that make work considerably easier and safer.

Best-possible quality for your safety

- > Maximum value is attached to the safety of the puller when selecting the material and manufacturing process for each individual component part beforehand.
- > Any overloading of drop-forged components, such as 2-arm cross-beams, legs and clamping parts, is revealed through deformation - on account of the course of their fibres - rather than through fracturing and/or splintering.
- > Thermo-chemical treatment bestows a hardness on the components meeting the demands placed.
- > Strict quality checks ensure a constant high level

Flexibility and specialization

- > Irrespective as to whether the same pulling operations are repeated or whether you are confronted each time with new pulling challenges, special or flexible all-purpose pullers - saving both on time and force - are there to meet your individual demands
- > The 1.06 and 1.07 series provide that unsurpassed flexibility. 2 and 3-arm cross-beams of various sizes, legs in the most varied of shapes and lengths, various fastening systems and the scope to replace the mechanical spindle by a hydraulic one all give rise to a modular system with which you can extensively retrofit and update your puller - thus making it applicable for all sorts of pulling situations.
- > Appropriate ranges for varied fields of work - including the workshop, industry and agricultural/constructional machinery repairs.
- > From the incidental parts to the heavy-duty puller, GEDORE provides tools for external, internal and ball bearing pullers and special-purpose tools. Should you still not find the right tool, then do contact us as to possible customised manufacturing.

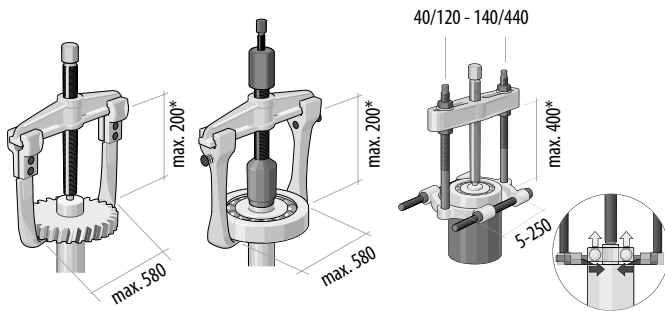


# YOUR PATH TO THE RIGHT PULLER

- A How can the component to be extracted be gripped?
- B Is a support possible either externally or internally?
- C Which clamping spread/reach has to be obtained?

## 1. EXTERNAL PULLING

>433

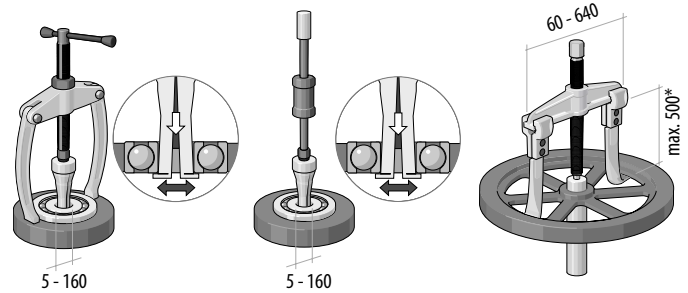


- > The component to be extracted can only be gripped externally
- > The centre axle is for supporting purposes
- > The component to be extracted is well set into, thus ruling out the use of pulling legs
- > The centre axle is for supporting purposes

## 2. INTERNAL PULLING

>480

- > The component to be extracted can only be gripped internally
- > Centre axle supporting is not possible

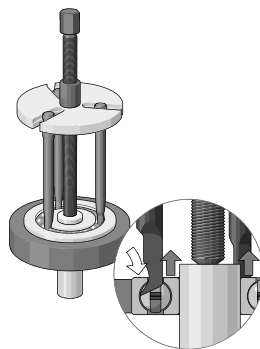


- > Supporting possible outside of the component
- > No support possible - thus the use of extracting aids
- > Centre axle supporting is possible

## 3. BALL BEARING EXTRACTION

>475

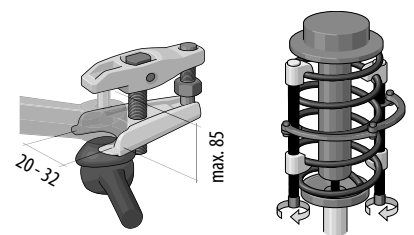
The ball bearing to be pulled is fitted on a shaft and in a housing and, as such, can neither be internally or externally gripped



## 4. EXTRACTION USING A SPECIAL-PURPOSE TOOL

>486

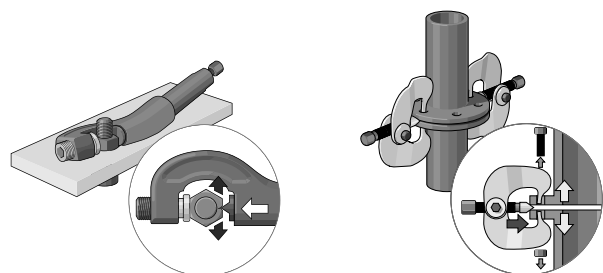
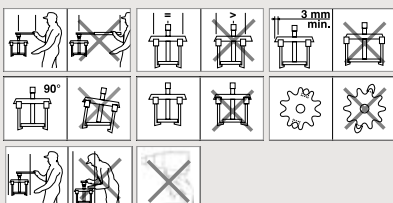
- > Automotive tool for
- > Ball joints
- > Oil filters /cartridges
- > Steering wheel
- > Springs
- > Wheel hubs etc.



- > Supporting possible outside of the component

### SAFETY NOTES FOR PULLERS

>640



- > Nut splitters
- > Stud extractors
- > Flange separators
- > Threaded inserts



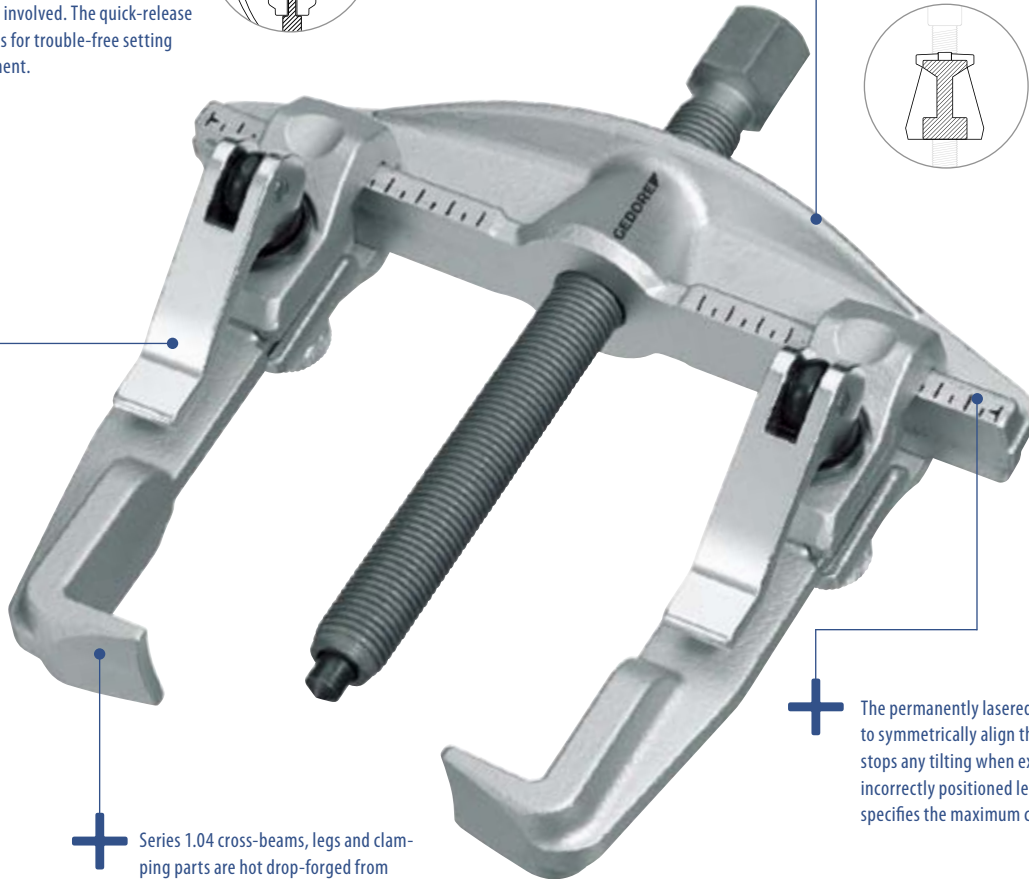
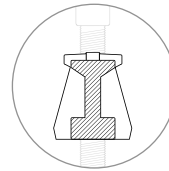
# 1.04 - A THOROUGHLY SUPERIOR TYPE OF PULLER



The legs of the 1.04 puller series have a T-profile. This ensures a positive fit between leg and cross-beam. The T-profile transfers the tensile force of the hooks via the clamping parts to the cross-beam - with no losses involved. The quick-release adjuster makes for trouble-free setting and readjustment.



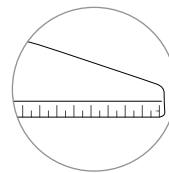
Reinforced cross-beam - the additional arching at the top of the crossbar produces an H-profile which, in turn, raises the load capacity as against the flexural torque.



Series 1.04 cross-beams, legs and clamping parts are hot drop-forged from hardened and tempered steel, giving them all the benefits of drop-forged components.



The permanently lasered scale makes it easier to symmetrically align the legs. This effectively stops any tilting when extracting caused by incorrectly positioned legs. A final marking specifies the maximum clamping spread.



## GEDORE spindles

> Comprise turned hardened and tempered steel. The fine thread is then rolled - this additional strengthening of the steel gives rolled thread a higher strength than a thread produced by cutting.

- > Have a fine thread which stops any unintended slackening from vibrations.
- > Are thermo-chemically treated. Nitro-carburating gives the spindle a high degree of wear and corrosion resistance. Oils and greases are not needed and, as such, the thread stays clean and smooth much longer.
- > Are fitted out with a replaceable spindle tip which is equally suitable for both centred and non-centred shafts.

## Safety-relevant

Forces amounting to several tons in weight act on the puller during the extracting operation! Drop-forged components "announce" possible overloading by bending. This is due to the fibre course of the material during forging permitting a certain flexibility of the components ahead of fracturing - an extremely "healthy" property, in fact!

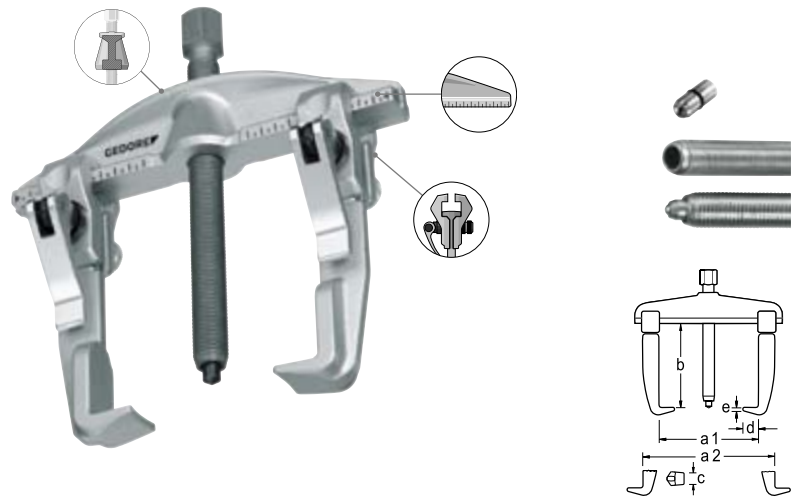








# 1.04 UNIVERSAL PULLER

## 2-arm pattern

- > For the safe and quick removal of pulleys, wheels, ball bearings, etc.
- > Strong drop forged pattern
- > Due to the bending-moment reinforcement on its back face, the energy-saving design of the cross-beam means even stronger and safer pulling work
- > Scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- > The quick-action adjustment feature supports the energy-saving and fast operation
- > Spindle with replaceable ball and tip point
- > Upgradeable with hydraulic spindle (see table)

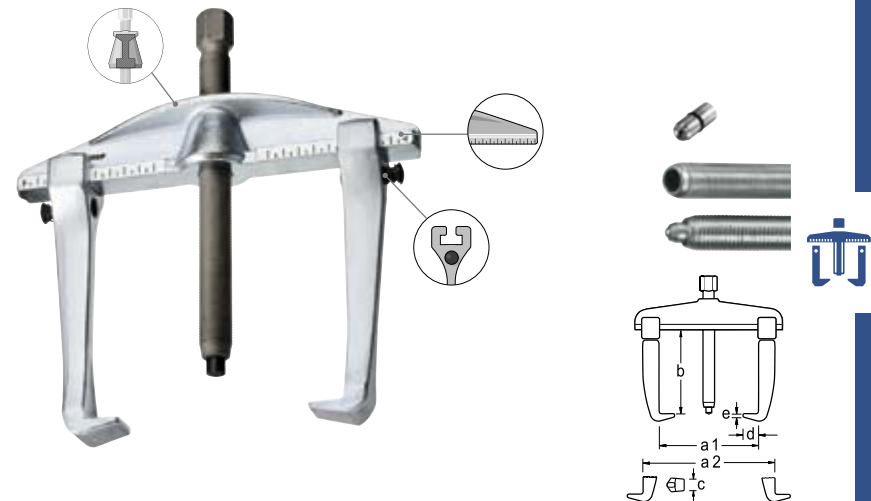







a <sub>1</sub>	a <sub>2 min</sub>	a <sub>2 max</sub>	b	max. t		optional 	c	d	e			Code	No.	
130	70	170	100	3.0	M 14x1,5 x 140	17	–	22	12	3.0	x	1.2	1307703	1.04/1A
200	110	260	150	5.0	G 1/2 x 210	22	1.06/HSP1	30	18	3.5	x	3.4	1307827	1.04/2A
350	150	420	200	7.5	G 3/4 x 280	27	1.06/HSP2	36	28	6.5	x	7.7	1307940	1.04/3A

# 1.04/B UNIVERSAL PULLER

## 2-arm pattern, rigid legs with leg brake

- > Due to the bending-moment reinforcement on its back face, the energy-saving design of the cross-beam means even stronger and safer pulling work
- > Strong drop forged pattern
- > Rigid legs forged from one piece
- > The legs clamp automatically when under tension
- > Leg brake - prevents unintentional leg slipping. The leg can be slid along the cross-beam at the push of a button
- > By reversing the legs, this tool can be used as an internal or external puller
- > Scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- > Spindle with replaceable ball and tip
- > Spindle thermo-chemically hardened
- > Upgradeable with hydraulic spindle (see table)



a <sub>1</sub>	a <sub>2 min</sub>	a <sub>2 max</sub>	b	max. t		 optional 	c	d	e			Code	No.	
130	70	170	100	3.0	M 14x1,5 x 140	17	–	22	15	3.0	x	1.2	1981110	1.04/1A-B
200	110	260	150	5.0	G 1/2 x 210	22	1.06/HSP1	30	24	3.5	x	3.4	1981129	1.04/2A-B
350	150	420	200	7.5	G 3/4 x 280	27	1.06/HSP2	36	33	5.0	x	7.7	1981137	1.04/3A-B

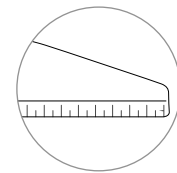
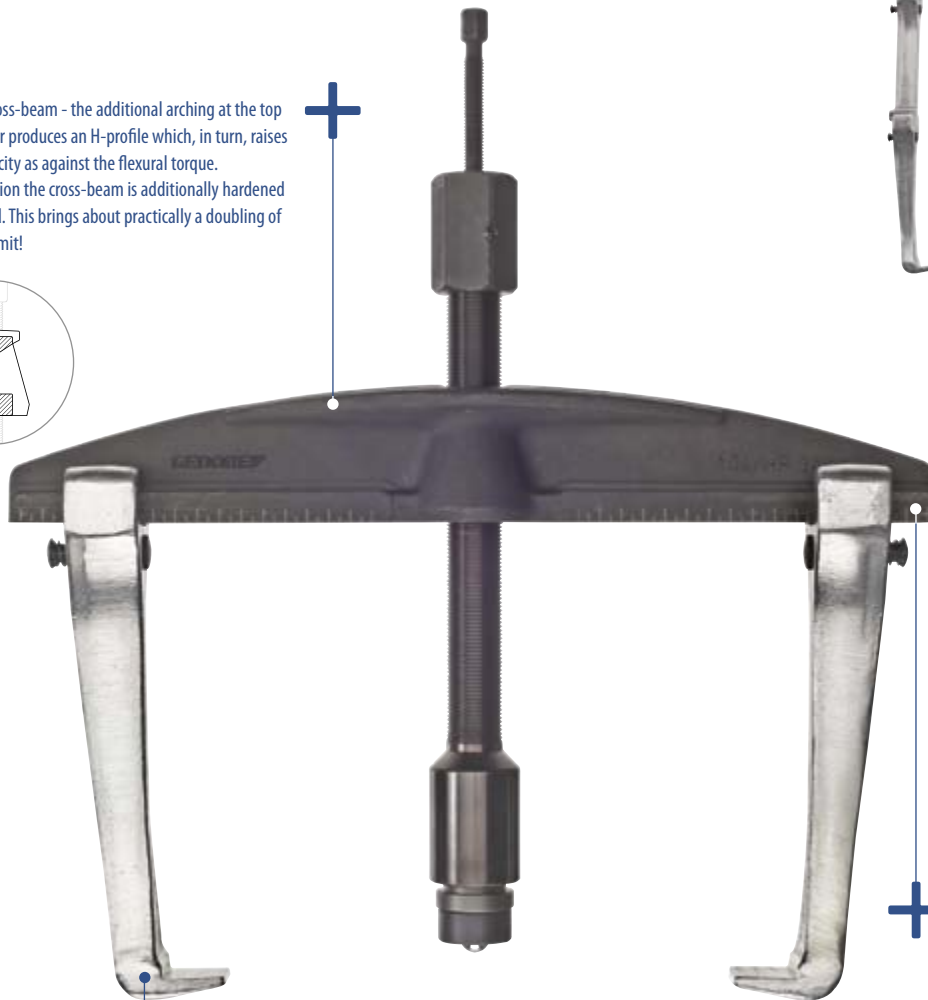
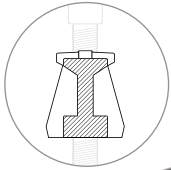
### SUMMARY OF PULLER LEGS



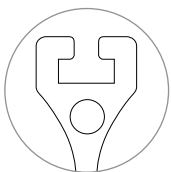
>450

# 1.04 HIGH POWER - THE POWER PACK

- Reinforced cross-beam - the additional arching at the top of the crossbar produces an H-profile which, in turn, raises the load capacity as against the flexural torque.
- In the HP version the cross-beam is additionally hardened and tempered. This brings about practically a doubling of the loading limit!



- The permanently lasered scale makes it easier to symmetrically align the legs. This effectively stops any tilting when extracting caused by incorrectly positioned legs. A final marking specifies the maximum clamping spread.



- The all-in steel legs are hot forged in one piece from 31CrV3 steel and hardened/tempered. They provide a positive-locking connection to the cross-beam.
- The leg brake secures the hooks from unintentional motions.
- Pressing the release button unlatches the locking - the leg can be moved on the cross-beam. Releasing the button causes the leg to jam tight on the cross-beam with slipping ruled out.

## Hydraulic spindles

- Hydraulic spindles simplify the work - less force and time needed for a pulling operation
- The hydraulic spindle principle is both straightforward and ingenious at the same time. The effect of screwing in the clamping bolt is to compress the grease inside the hydraulic piston - the extending piston acts on the part to be extracted with a force many times greater than that manually applied at the top.
- This controlled operation provides for working safely with the hydraulic spindle and is recommended, in particular, for high levels of force.
- In the 1.04 series a hydraulic spindle can be used upwards of puller size 2A. The pressure piece can be replaced by a tip and lengthened by 35, 85 or 135 mm. The small pressure spindle is secured with an unscrewing lock to stop any accidental withdrawal.



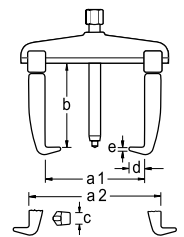
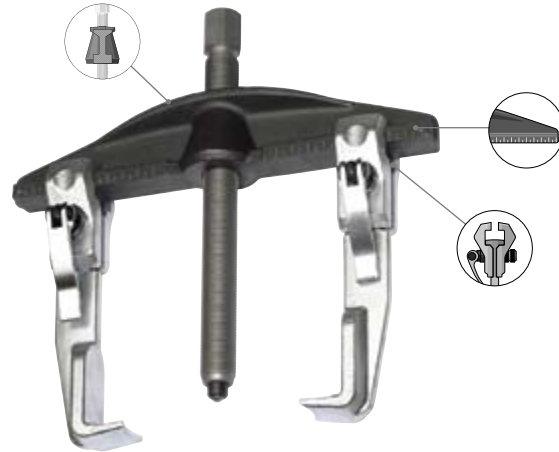
## Safety-relevant






Forces amounting to several tons in weight act on the puller during the extracting operation! Drop-forged components "announce" possible overloading by bending. This is due to the fibre course of the material during forging permitting a certain flexibility of the components ahead of fracturing - an extremely "healthy" property, in fact !

# 1.04/HP UNIVERSAL PULLER HIGH POWER

## 2-arm pattern

- > Cross-beam especially hardened and tempered allows safe application of extremely high pulling forces and doubles the tensile force capability
- > Strong drop forged pattern
- > By reversing the legs, this tool can be used as an internal or external puller
- > Scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- > Integral legs, with quick-release
- > Spindle with replaceable ball and tip
- > Spindle thermo-chemically hardened
- > Upgradeable with hydraulic spindle (see table)

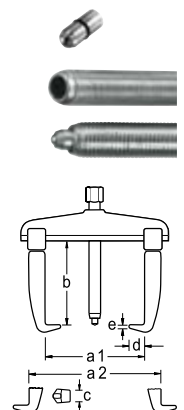
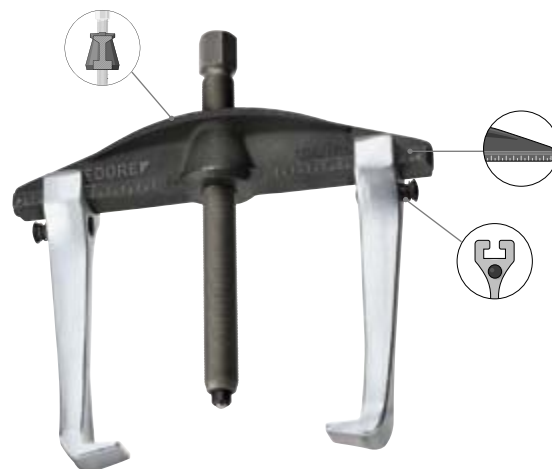







$a_1$	$a_{2\min}$	$a_{2\max}$	b	max. t		 mm optional 	c	d	e			Code	No.	
130	70	170	100	5.0	M 14x1,5 x 140	17	—	22	12	3.0	x	1.2	1868152	1.04/HP1A
200	110	260	150	10.0	G 1/2 x 210	22	1.06/HSP1	30	18	3.5	x	3.4	1868160	1.04/HP2A
350	150	420	200	15.0	G 3/4 x 280	27	1.06/HSP2	36	28	6.5	x	7.7	1868179	1.04/HP3A

# 1.04/HP-B UNIVERSAL PULLER HIGH POWER

## 2-arm pattern, rigid legs with leg brake

- > Cross-beam especially hardened and tempered allows safe application of extremely high pulling forces and doubles the tensile force capability
- > Strong drop forged pattern
- > Rigid legs forged from one piece
- > Leg brake - prevents unintentional leg slipping. The leg can be slid along the cross-beam at the push of a button
- > By reversing the legs, this tool can be used as an internal or external puller
- > Scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- > Upgradeable with hydraulic spindle (see table)



$a_1$	$a_{2\min}$	$a_{2\max}$	b	max. t		 mm optional 	c	d	e			Code	No.	
130	70	170	100	5.0	M 14x1,5 x 140	17	—	22	15	3.0	x	1.2	1981145	1.04/HP1A-B
200	110	260	150	10.0	G 1/2 x 210	22	1.06/HSP1	30	24	3.5	x	3.4	1981153	1.04/HP2A-B
350	150	420	200	15.0	G 3/4 x 280	27	1.06/HSP2	36	32	5.0	x	7.7	1981161	1.04/HP3A-B



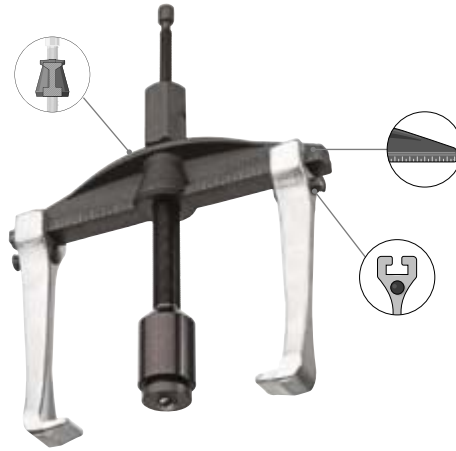
# 1.04/HP-B-HSP UNIVERSAL PULLER HIGH POWER

hydraulic, 2-arm pattern, solid steel legs with leg brake

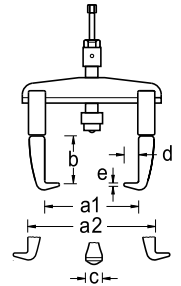
- > Cross-beam especially hardened and tempered allows safe application of extremely high pulling forces and doubles the tensile force capability
- > Strong drop forged pattern
- > Rigid legs forged from one piece
- > Leg brake - prevents unintentional leg slipping. The leg can be slid along the cross-beam at the push of a button
- > By reversing the legs, this tool can be used as an internal or external puller
- > Scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- > With the hydraulic spindle, a controlled and safe pulling action is possible at all times
- > Also available with standard spindle - Model 1.04/HP-B



1.04/HP3A-B-HSP2



1.04/HP2A-B-HSP1

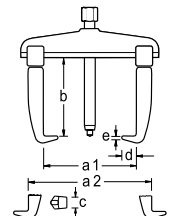
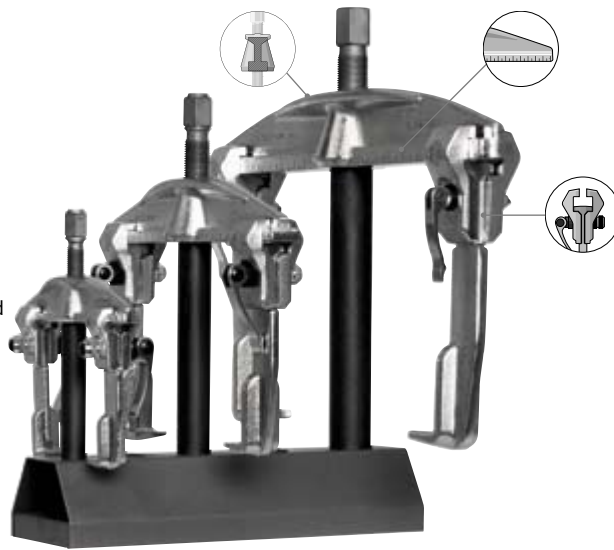


a <sub>1</sub>	a <sub>2 min</sub>	a <sub>2 max</sub>	b	max. t	max. N·m		c	d	e			Code	No.
200	110	260	70	10.0	17	1.06/HSP1	30	24	3.5	x	3.8	2016206	1.04/HP2A-B-HSP1
350	150	420	120	12.0	19	1.06/HSP2	36	32	5.0	x	7.8	2300036	1.04/HP3A-B-HSP2

# 1.04/ST PULLER SET

with stand

- > Consisting of 3 pullers each in different sizes
- > Strong drop forged pattern
- > Due to the bending-moment reinforcement on its back face, the energy-saving design of the cross-beam means even stronger and safer pulling work
- > Scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- > The quick-action adjustment feature supports the energy-saving and fast operation
- > Spindle with replaceable ball and tip point
- > Upgradeable with hydraulic spindle (see table)



## CONTENTS

		Code	No.
1.04/1A	15.2	1675982	1.04/ST
1.04/2A			
1.04/3A			

## SPECIFICATIONS

No.	Code	a <sub>1</sub>	a <sub>2 min</sub>	a <sub>2 max</sub>	b	max. t			optional	c	d	e		
1.04/1A	1307703	130	70	170	100	3.0	M 14x1,5 x 140	17	–	22	12	3.0	x	1.2
1.04/2A	1307827	200	110	260	150	5.0	G 1/2 x 210	22	1.06/HSP1	30	18	3.5	x	3.4
1.04/3A	1307940	350	150	420	200	7.5	G 3/4 x 280	27	1.06/HSP2	36	28	6.5	x	7.7

# 1.04/ST-HP-B PULLER SET

with stand

- > Consisting of 3 pullers in different sizes and stand
- > Cross-beam especially hardened and tempered allows safe application of extremely high pulling forces and doubles the tensile force capability
- > Strong drop forged pattern
- > Rigid legs forged from one piece
- > Leg brake - prevents unintentional leg slipping. The leg can be slid along the cross-beam at the push of a button
- > By reversing the legs, this tool can be used as an internal or external puller
- > Scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- > Upgradeable with hydraulic spindle (see table)



## CONTENTS

		Code	No.
1.04/HP1A-B	15.2	2300044	1.04/ST-HP-B
1.04/HP2A-B			
1.04/HP3A-B			

## SPECIFICATIONS

No.	Code	a <sub>1</sub>	a <sub>2 min</sub>	a <sub>2 max</sub>	b	max. t			optional	c	d	e		
1.04/HP1A-B	1981145	130	70	170	100	5.0	M 14x1,5 x 140	17	-	22	15	3.0	x	1.2
1.04/HP2A-B	1981153	200	110	260	150	10.0	G 1/2 x 210	22	1.06/HSP1	30	24	3.5	x	3.4
1.04/HP3A-B	1981161	350	150	420	200	15.0	G 3/4 x 280	27	1.06/HSP2	36	32	5.0	x	7.7

# 1100-1.04 UNIVERSAL PULLER SET

in L-BOXX® 136

- > Max. capacity up to 5 t
- > 2- and 3-arm cross-beam
- > With rigid and slim legs and extensions
- > Extra-slim pulling legs for cramped spaces are attached for self-mounting
- > The forged leg feet are very slim particularly suitable for barely accessible places
- > 12 different pullers can be combined
- > External Ø up to 130 mm, internal Ø up to 170 mm with a 200 mm clamping reach
- > 1100 CT2-1.04 to retrofit existing L-BOXX®es 136
- > With Check-Tool insert for quick check of completeness
- > As tools are fully sunk in the foam, the equipped insert can be stacked
- > Insert for use in drawers with min. dimensions 400 x 310 x 60 mm



1100-1.04



1100 CT2-1.04

	Code	No.
6.3	2838362	1100-1.04
4.1	2836068	1100 CT2-1.04

Description		Code	No.
Foam insert 2/2 L-BOXX 136, empty	0.200	2836076	EI-1100 CT2-1.04



# 1100-1.04/12A

## PULLER SET INTERNAL/EXTERNAL

in L-BOXX® 136


- > Max. capacity 3 and 5 t
- > For clamping depths up to Ø 200 mm external, Ø 70-260 mm internal, and clamping reach up to 300 mm
- > In 3 of 4 spindles the spindle tip (ball/tip) can be rotated
- > Quick-release pulling legs with integral T-profile for a better transmission of force
- > The forged leg feet are very slim particularly suitable for barely accessible places
- > 2 rigid extensions each 100 and 150 mm with leg brake for quick adjustment of the legs
- > 1100 CT2-1.04/12A to retrofit existing L-BOXX®es 136
- > With Check-Tool insert for quick check of completeness
- > As tools are fully sunk in the foam, the equipped insert can be stacked
- > Insert for use in drawers with min. dimensions 400 x 310 x 90 mm




1100-1.04/12A



1100 CT2-1.04/12A

	Code	No.
9.6	2927241	1100-1.04/12A
7.4	2927268	1100 CT2-1.04/12A

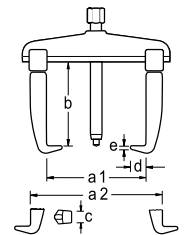
Description	W	D	H		Code	No.
<b>Foam insert 2/2 L-BOXX 136, empty</b>	400	310	90	0.200	2927276	EI-1100 CT2-1.04/12A






## 1.06

### UNIVERSAL PULLER

2-arm pattern

- > The tried and tested model for the safe and quick removal of pulleys, wheels, ball bearings, etc.
- > Strong drop forged design
- > Scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- > By reversing the legs, this tool can be used as an internal or external puller
- > Extra or replacement legs increase versatility
- > Upgradeable with hydraulic spindle (see table)

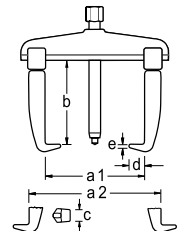







a <sub>1</sub>	a <sub>2 min</sub>	a <sub>2 max</sub>	b	max. t		 mm	optional 	c	d	e			Code	No.
90	60	140	100	3.0	M 14x1,5 x 140	17	–	22	12	3.0	x	1.1	8000230	1.06/1
130	70	180	100	3.0	M 14x1,5 x 140	17	–	22	12	3.0	x	1.3	8000310	1.06/1A
160	80	220	150	5.0	G 1/2 x 210	22	1.06/HSP1	30	18	3.5	x	3.0	8000580	1.06/2
200	90	260	150	5.0	G 1/2 x 210	22	1.06/HSP1	30	18	3.5	x	3.5	8000660	1.06/2A
250	125	330	200	7.5	G 3/4 x 280	27	1.06/HSP2	36	28	6.5	x	7.2	8000740	1.06/3
350	125	420	200	7.5	G 3/4 x 280	27	1.06/HSP2	36	28	6.5	x	8.2	8000820	1.06/3A
520	185	600	200	10.0	G 1 x 310	36	1.06/HSP3	36	28	6.5	-	13.7	8000900	1.06/4

# 1.06 UNIVERSAL PULLER

2-arm pattern, with extended legs

- > Strong drop forged design
- > Scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- > Extended legs
- > By reversing the legs, this tool can be used as an internal or external puller
- > Extra or replacement legs increase versatility
- > Upgradeable with hydraulic spindle (see table)

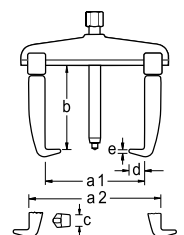







$a_1$	$a_{2min}$	$a_{2max}$	b	max. t		 mm	optional 	c	d	e			Code	No.
90	60	140	200	3.0	M 14x1,5 x 140	17	–	22	12	3.0	x	1.5	8108350	1.06/1-2
130	70	180	200	3.0	M 14x1,5 x 140	17	–	22	12	3.0	x	1.6	8108430	1.06/1A-2
160	80	220	300	5.0	G 1/2 x 210	22	1.06/HSP1	30	18	3.5	x	4.1	8108510	1.06/2-3
200	90	260	300	5.0	G 1/2 x 210	22	1.06/HSP1	30	18	3.5	x	4.5	8108780	1.06/2A-3
250	125	330	300	7.5	G 3/4 x 280	27	1.06/HSP2	36	28	6.5	x	9.1	8001200	1.06/3-3
350	125	420	300	7.5	G 3/4 x 280	27	1.06/HSP2	36	28	6.5	x	9.8	8108860	1.06/3A-3
520	185	600	300	10.0	G 1 x 310	36	1.06/HSP3	36	28	6.5	x	15.2	8108940	1.06/4-3
250	125	330	400	7.5	G 3/4 x 280	27	1.06/HSP2	36	28	6.5	x	10.0	8109080	1.06/3-4
350	125	420	400	7.5	G 3/4 x 280	27	1.06/HSP2	36	28	6.5	x	11.1	8109160	1.06/3A-4
520	185	600	400	10.0	G 1 x 310	36	1.06/HSP3	36	28	6.5	-	16.4	8109240	1.06/4-4
250	125	330	500	7.5	G 3/4 x 280	27	1.06/HSP2	36	28	6.5	x	11.3	8109320	1.06/3-5
350	125	420	500	7.5	G 3/4 x 280	27	1.06/HSP2	36	28	6.5	x	12.2	8112380	1.06/3A-5
520	185	600	500	10.0	G 1 x 310	36	1.06/HSP3	36	28	6.5	-	19.0	8112460	1.06/4-5

# 1.06/B UNIVERSAL PULLER

2-arm pattern, rigid legs with leg brake

- > Strong drop forged design
- > Rigid legs forged from one piece
- > Leg brake - prevents unintentional leg slipping. The leg can be slid along the cross-beam at the push of a button
- > Scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- > By reversing the legs, this tool can be used as an internal or external puller
- > Extra or replacement legs increase versatility
- > Upgradeable with hydraulic spindle (see table)



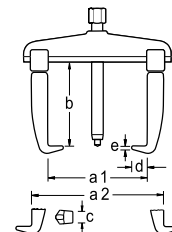
$a_1$	$a_{2min}$	$a_{2max}$	b	max. t		 mm	optional 	c	d	e			Code	No.
100	50	140	100	3.0	M 14x1,5 x 140	17	–	22	15	3.0	x	0.9	1956337	1.06/11-B
140	60	180	100	3.0	M 14x1,5 x 140	17	–	22	15	3.0	x	1.3	1956345	1.06/1A1-B
170	80	220	150	5.0	G 1/2 x 210	22	1.06/HSP1	30	24	3.5	x	2.8	1956353	1.06/21-B
210	90	260	150	5.0	G 1/2 x 210	22	1.06/HSP1	30	24	3.5	x	3.3	1956361	1.06/2A1-B
250	125	340	200	7.5	G 3/4 x 280	27	1.06/HSP2	36	32	5.0	x	6.7	1956388	1.06/31-B
340	125	430	200	7.5	G 3/4 x 280	27	1.06/HSP2	36	32	5.0	x	7.5	1956396	1.06/3A1-B
520	185	610	200	10.0	G 1 x 310	36	1.06/HSP3	36	32	5.0	-	14.0	1958399	1.06/41-B








# 1.06/E QUICK-RELEASE PULLER

2-arm pattern

- > The tried and tested model for the safe and quick removal of pulleys, wheels, ball bearings, etc.
- > Strong drop forged pattern
- > Scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- > By reversing the legs, this tool can be used as an internal or external puller
- > Exchangeable legs for several clamping reaches available as accessories
- > Quick release legs for fast, easy set-up and adjustment
- > Upgradeable with hydraulic spindle (see table)

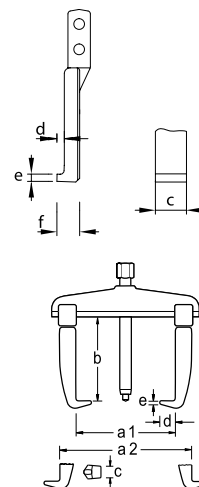







a <sub>1</sub>	a <sub>2 min</sub>	a <sub>2 max</sub>	b	max. t		 mm	optional 	c	d	e		 kg	Code	No.
90	60	140	100	3.0	M 14x1,5 x 140	17	–	22	12	3.0	x	1.1	1213830	1.06/1-E
130	70	180	100	3.0	M 14x1,5 x 140	17	–	22	12	3.0	x	1.3	1215140	1.06/1A-E
160	80	220	150	5.0	G 1/2 x 210	22	1.06/HSP1	30	18	3.5	x	3.0	1216570	1.06/2-E
200	90	260	150	5.0	G 1/2 x 210	22	1.06/HSP1	30	18	3.5	x	3.5	1217720	1.06/2A-E
250	125	330	200	7.5	G 3/4 x 280	27	1.06/HSP2	36	28	6.5	x	7.1	1218980	1.06/3-E
350	125	420	200	7.5	G 3/4 x 280	27	1.06/HSP2	36	28	6.5	x	8.2	1220160	1.06/3A-E

# 1.06/S-E QUICK-RELEASE PULLER

2-arm pattern, with slim legs

- > The forged leg feet are very slim
- > Particularly suitable for barely accessible places
- > Scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- > Quick release legs for fast, easy set-up and adjustment



a	b	max. t		 mm	optional 	c	d	e	f		 kg	Code	No.
100	100	2.0	M 14x1,5 x 140	17	–	29.8	7.5	3.7	13.5	x	1.0	2015706	1.06/S1-E
140	100	2.5	M 14x1,5 x 140	17	–	29.8	7.5	3.7	13.5	x	1.1	2015714	1.06/S1A-E
160	150	5.0	G 1/2 x 210	22	1.06/HSP1	40.0	7.0	5.0	15.0	x	2.9	2015722	1.06/S2-E
200	150	5.0	G 1/2 x 210	22	1.06/HSP1	40.0	7.0	5.0	15.0	x	3.2	2015730	1.06/S2A-E

5.10

>455



Remember the safety cover!

SPINDLE / LEGS

>452

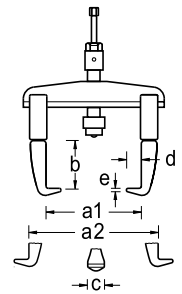






# 1.06/HSP-B UNIVERSAL PULLER

hydraulic, 2-arm pattern, rigid legs with leg brake

- > Strong drop forged pattern
- > Scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- > Rigid legs forged from one piece
- > Leg brake - prevents unintentional leg slipping. The leg can be slid along the cross-beam at the push of a button
- > By reversing the legs, this tool can be used as an internal or external puller
- > With the hydraulic spindle, a controlled and safe pulling action is possible at all times
- > The pressure piece can be replaced by a tip and lengthened, as required.
- > The small pressure spindle is secured with an unscrewing lock to stop any accidental withdrawal.
- > Also available with standard spindle - Model 1.06/B

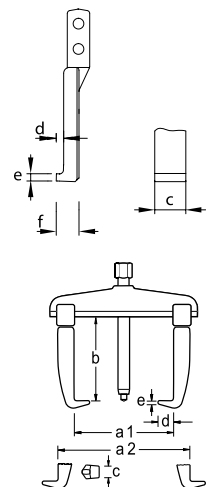






a <sub>1</sub>	a <sub>2</sub>	b	max. t	max. N·m		c	d	e		Code	No.
170	220	70	5.0	9	1.06/HSP1	30	24	3.5	x	1957899	1.06/21-B-HSP1
210	260	70	5.0	9	1.06/HSP1	30	24	3.5	x	1957902	1.06/2A1-B-HSP1
250	340	120	7.5	13	1.06/HSP2	36	32	5.0	x	1957910	1.06/31-B-HSP2
340	430	120	7.5	13	1.06/HSP2	36	32	5.0	x	1957929	1.06/3A1-B-HSP2
520	610	75	10.0	25	1.06/HSP3	36	32	5.0	-	1957937	1.06/41-B-HSP3

# 1.06/AS PULLER SET

with 6 legs

- > 2-arm puller, with 6 slim legs in 3 lengths
- > Particularly suitable for barely accessible places



a	b	max. t		 mm	optional 	c	d	e	f		Code	No.
130	100 / 200 / 250	2.5	M 14x1,5 x 140	17	-	29.5	7.5	3.7	13.5	x	8001710	1.06/AS
260	150 / 220 / 300	5.0	G 1/2 x 210	22	1.06/HSP1	40.0	7.0	5.0	15.0	x	1675974	1.06/AS-2

For longer spindles see spindle summary on page 452

# 1.06/ST PULLER SET

with stand

- > Consisting of 5 pullers each in different sizes with standard or quick-release pulling legs
- > Scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- > For clamping depths up to Ø 250 mm external, Ø 330 mm internal, and clamping reach up to 200 mm



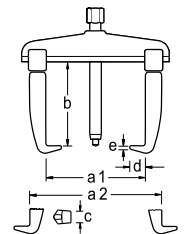
1.06/ST



1.06/ST-E



1.06/ST1-B



## CONTENTS

		Code	No.
<b>1.06/1 1.06/1A</b> <b>1.06/2 1.06/2A</b> <b>1.06/3</b>	19.0	8111570	1.06/ST
<b>1.06/1-E 1.06/1A-E</b> <b>1.06/2-E 1.06/2A-E</b> <b>1.06/3-E</b>	19.2	1322745	1.06/ST-E
<b>1.06/11-B 1.06/1A1-B</b> <b>1.06/21-B 1.06/2A1-B</b> <b>1.06/31-B</b>	17.2	2004569	1.06/ST1-B

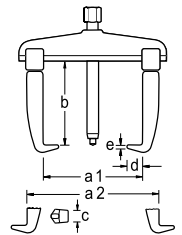
## SPECIFICATIONS





No.	Code	a <sub>1</sub>	a <sub>2 min</sub>	a <sub>2 max</sub>	b	max. t		mm	optional	c	d	e		
<b>1.06/1</b>	8000230	90	60	140	100	3.0	M 14x1,5 x 140	17	–	22	12	3.0	x	1.1
<b>1.06/1A</b>	8000310	130	70	180	100	3.0	M 14x1,5 x 140	17	–	22	12	3.0	x	1.3
<b>1.06/2</b>	8000580	160	80	220	150	5.0	G 1/2 x 210	22	1.06/HSP1	30	18	3.5	x	3.0
<b>1.06/2A</b>	8000660	200	90	260	150	5.0	G 1/2 x 210	22	1.06/HSP1	30	18	3.5	x	3.5
<b>1.06/3</b>	8000740	250	125	330	200	7.5	G 3/4 x 280	27	1.06/HSP2	36	28	6.5	x	7.2
<b>1.06/1-E</b>	1213830	90	60	140	100	3.0	M 14x1,5 x 140	17	–	22	12	3.0	x	1.1
<b>1.06/1A-E</b>	1215140	130	70	180	100	3.0	M 14x1,5 x 140	17	–	22	12	3.0	x	1.3
<b>1.06/2-E</b>	1216570	160	80	220	150	5.0	G 1/2 x 210	22	1.06/HSP1	30	18	3.5	x	3.0
<b>1.06/2A-E</b>	1217720	200	90	260	150	5.0	G 1/2 x 210	22	1.06/HSP1	30	18	3.5	x	3.5
<b>1.06/3-E</b>	1218980	250	125	330	200	7.5	G 3/4 x 280	27	1.06/HSP2	36	28	6.5	x	7.1
<b>1.06/11-B</b>	1956337	100	50	140	100	3.0	M 14x1,5 x 140	17	–	22	15	3.0	x	0.9
<b>1.06/1A1-B</b>	1956345	140	60	180	100	3.0	M 14x1,5 x 140	17	–	22	15	3.0	x	1.3
<b>1.06/21-B</b>	1956353	170	80	220	150	5.0	G 1/2 x 210	22	1.06/HSP1	30	24	3.5	x	2.8
<b>1.06/2A1-B</b>	1956361	210	90	260	150	5.0	G 1/2 x 210	22	1.06/HSP1	30	24	3.5	x	3.3
<b>1.06/31-B</b>	1956388	250	125	340	200	7.5	G 3/4 x 280	27	1.06/HSP2	36	32	5.0	x	6.7

# 1.07 UNIVERSAL PULLER

## 3-arm pattern

- > Even load distribution over 3 legs ensures secure grip and balanced pull
- > By reversing the legs, this tool can be used as an internal or external puller
- > Extra or replacement legs increase versatility
- > Upgradeable with hydraulic spindle (see table)

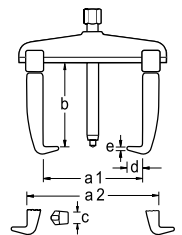






$a_1$	$a_{2\min}$	$a_{2\max}$	b	max. t		 mm	optional 	c	d	e		Code	No.
90	70	140	100	3.0	M 14x1,5 x 140	17	–	22	12	3.0	1.4	8113940	1.07/1
130	80	180	100	3.0	M 14x1,5 x 140	17	–	22	12	3.0	1.6	8114080	1.07/1A
160	100	220	150	5.0	G 1/2 x 210	22	1.06/HSP1	30	18	3.5	3.6	8114160	1.07/2
200	100	260	150	5.0	G 1/2 x 210	22	1.06/HSP1	30	18	3.5	4.2	8114240	1.07/2A
250	100	400	200	7.5	G 3/4 x 280	27	1.06/HSP2	36	28	6.5	9.3	1541757	1.07/3

# 1.07/B UNIVERSAL PULLER

## 3-arm pattern, rigid legs with leg brake

- > Even load distribution over 3 legs ensures secure grip and balanced pull
- > Rigid legs forged from one piece
- > Leg brake - prevents unintentional leg slipping. The leg can be slid along the cross-beam at the push of a button
- > By reversing the legs, this tool can be used as an internal or external puller
- > Extra or replacement legs increase versatility
- > Upgradeable with hydraulic spindle (see table)



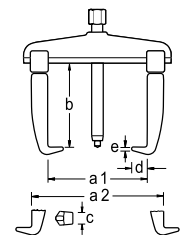
$a_1$	$a_{2\min}$	$a_{2\max}$	b	max. t		 mm	optional 	c	d	e		Code	No.
90	70	140	100	3.0	M 14x1,5 x 140	17	–	22	15	3.0	1.2	1957945	1.07/11-B
130	80	180	100	3.0	M 14x1,5 x 140	17	–	22	15	3.0	1.4	1957953	1.07/1A1-B
160	100	220	150	5.0	G 1/2 x 210	22	1.06/HSP1	30	24	3.5	3.5	1957961	1.07/21-B
200	100	260	150	5.0	G 1/2 x 210	22	1.06/HSP1	30	24	3.5	3.7	1957988	1.07/2A1-B
250	100	400	200	7.5	G 3/4 x 280	27	1.06/HSP2	36	28	6.5	8.0	1957996	1.07/31-B






# 1.07/E QUICK-RELEASE PULLER

3-arm pattern

- > Quick release legs for fast, easy set-up and adjustment
- > By reversing the legs, this tool can be used as an internal or external puller
- > Upgradeable with hydraulic spindle (see table)

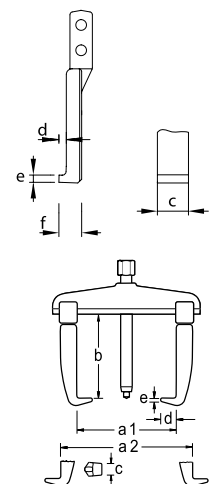





a <sub>1</sub>	a <sub>2 min</sub>	a <sub>2 max</sub>	b	max. t		mm	optional 	c	d	e		Code	No.
90	70	140	100	3.0	M 14x1,5 x 140	17	–	22	12	3.0	1.4	1222902	1.07/1-E
130	80	180	100	3.0	M 14x1,5 x 140	17	–	22	12	3.0	1.6	1225901	1.07/1A-E
160	100	220	150	5.0	G 1/2 x 210	22	1.06/HSP1	30	18	3.5	3.8	1227335	1.07/2-E
200	100	260	150	5.0	G 1/2 x 210	22	1.06/HSP1	30	18	3.5	4.0	1227459	1.07/2A-E
250	100	400	200	7.5	G 3/4 x 280	27	1.06/HSP2	36	28	6.5	9.2	1554751	1.07/3-E

# 1.07/S-E QUICK-RELEASE PULLER

3-arm pattern, with slim legs

- > The forged leg feet are very slim
- > Particularly suitable for barely accessible places
- > Quick release legs for fast, easy set-up and adjustment

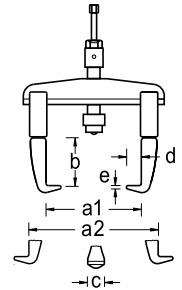




a	b	max. t		mm	optional 	c	d	e	f		Code	No.
90	100	2.5	M 14x1,5 x 140	17	–	29.5	7.5	3.7	13.5	1.3	2016036	1.07/S1-E
130	100	2.5	M 14x1,5 x 140	17	–	29.5	7.5	3.7	13.5	1.4	2016044	1.07/S1A-E
160	150	5.0	G 1/2 x 210	22	1.06/HSP1	40.0	7.0	5.0	15.0	3.6	2016052	1.07/S2-E
200	150	5.0	G 1/2 x 210	22	1.06/HSP1	40.0	7.0	5.0	15.0	3.9	2016060	1.07/S2A-E

# 1.07/HSP-B UNIVERSAL PULLER

hydraulic, 3-arm pattern, rigid legs with leg brake

- > Even load distribution over 3 legs ensures secure grip and balanced pull
- > Rigid legs forged from one piece
- > Leg brake - prevents unintentional leg slipping. The leg can be slid along the cross-beam at the push of a button
- > By reversing the legs, this tool can be used as an internal or external puller
- > Extra or replacement legs increase versatility
- > The pressure piece can be replaced by a tip and lengthened, as required.
- > The small pressure spindle is secured with an unscrewing lock to stop any accidental withdrawal.
- > Also available with standard spindle - Model 1.07/B

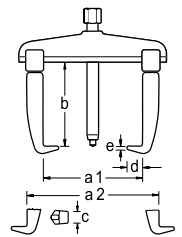






$a_{1\max}$	$a_{1\min}$	$a_{2\max}$	$a_{2\min}$	b	max. t	max. N·m		c	d	e		Code	No.
160	20	220	140	70	5.0	9	1.06/HSP1	30	24	3.5	4.1	2546566	1.07/21-B-HSP1
200	20	260	140	70	5.0	9	1.06/HSP1	30	24	3.5	4.2	2079984	1.07/2A1-B-HSP1
250	25	340	220	120	7.5	13	1.06/HSP2	36	28	6.5	8.6	2545128	1.07/31-B-HSP2

# 1.07/4 UNIVERSAL PULLER

2-/3-arm pattern

- > Just like our standard model no. 1.06, this puller is designed for all branches of industry, but particularly for the construction of electric motors
- > It is also suitable for removing heavy, multistage V-belt pulley wheels, flywheels, gear wheels, etc.
- > Pins are used to lock the arms at 120 degrees to each other on the hub
- > Upgradeable with hydraulic spindle (see table)
- > This puller may also be used with the hydraulic aid no. 1.50 without requiring any reduction bushing
- > On request, this puller is also available with further legs and extendable up to 6 arms



$a_{1\max}$	$a_{1\min}$	$a_{2\max}$	$a_{2\min}$	b	max. t		 mm optional 	c	d	e		Code	No.
450	150	530	270	200	10	G 1 x 360	36 1.06/HSP3	36	28	6.5	18.8	8002440	1.07/4
580	150	640	270	200	10	G 1 x 360	36 1.06/HSP3	36	28	6.5	22.0	1958003	1.07/4A
450	150	530	270	300	10	G 1 x 360	36 1.06/HSP3	36	28	6.5	21.0	1305085	1.07/4-3
450	150	530	270	500	10	G 1 x 360	36 1.06/HSP3	36	28	6.5	25.2	1305425	1.07/4-5
580	150	640	270	400	10	G 1 x 360	36 1.06/HSP3	36	28	6.5	25.8	2302802	1.07/4A-4
580	150	640	270	500	10	G 1 x 360	36 1.06/HSP3	36	28	6.5	28.4	2302810	1.07/4A-5

1.50

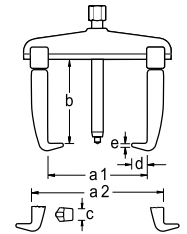
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


# 1.07/4-B UNIVERSAL PULLER

2-/3-arm pattern, rigid legs with leg brake

- > Just like our standard model no. 1.06, this puller is designed for all branches of industry, but particularly for the construction of electric motors
- > It is also suitable for removing heavy, multistage V-belt pulley wheels, flywheels, gear wheels, etc.
- > Pins are used to lock the arms at 120 degrees to each other on the hub
- > Rigid legs forged from one piece
- > Leg brake - prevents unintentional leg slipping. The leg can be slid along the cross-beam at the push of a button
- > By reversing the legs, this tool can be used as an internal or external puller
- > Upgradeable with hydraulic spindle (see table)
- > This puller may also be used with the hydraulic aid no. 1.50 without requiring any reduction bushing
- > On request, this puller is also available with further legs and extendable up to 6 arms

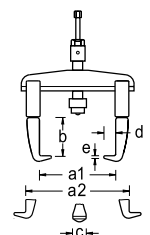




a <sub>1 max</sub>	a <sub>1 min</sub>	a <sub>2 max</sub>	a <sub>2 min</sub>	b	max. t		 mm	optional 	c	d	e		Code	No.
450	150	530	270	200	10	G 1" x 360	36	1.06/HSP3	36	28	6.5	18.8	2546531	1.07/41-B
580	150	640	270	200	10	G 1" x 360	36	1.06/HSP3	36	28	6.5	22.0	2546558	1.07/4A1-B

# 1.07/4-HSP-B UNIVERSAL PULLER

hydraulic, 2-/3-arm pattern, rigid legs with leg brake

- > Just like our standard model no. 1.06, this puller is designed for all branches of industry, but particularly for the construction of electric motors
- > It is also suitable for removing heavy, multistage V-belt pulley wheels, flywheels, gear wheels, etc.
- > Pins are used to lock the arms at 120 degrees to each other on the hub
- > Rigid legs forged from one piece
- > Leg brake - prevents unintentional leg slipping. The leg can be slid along the cross-beam at the push of a button
- > By reversing the legs, this tool can be used as an internal or external puller
- > This puller may also be used with the hydraulic aid no. 1.50 without requiring any reduction bushing
- > On request, this puller is also available with further legs and extendable up to 6 arms
- > The pressure piece can be replaced by a tip and lengthened, as required.
- > The small pressure spindle is secured with an unscrewing lock to stop any accidental withdrawal.
- > Also available with standard spindle - Model 1.07/4-B

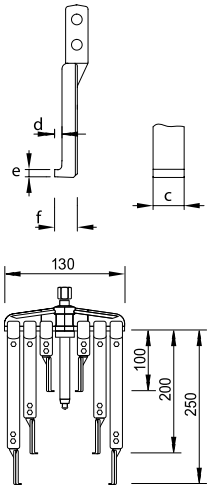






a <sub>1 max</sub>	a <sub>1 min</sub>	a <sub>2 max</sub>	a <sub>2 min</sub>	b	max. t	max. N·m		c	d	e		Code	No.
450	150	530	270	140	10	25	1.06/HSP3	36	28	6.5	19.9	2546574	1.07/41-B-HSP3
580	150	640	270	140	10	25	1.06/HSP3	36	28	6.5	23.1	2546582	1.07/4A1-B-HSP3

# 1.07/AS PULLER SET

with 9 legs

- > 3-arm puller, with 9 slim legs in 3 lengths
- > Particularly suitable for barely accessible places



a	b	max. t		 mm	optional 	c	d	e	f	 kg	Code	No.
130	100 / 200 / 250	2.5	M 14x1,5 x 140	17	–	29.5	7.5	3.7	13.5	4.8	8117260	1.07/AS
200	150 / 220 / 300	5.0	G 1/2 x 210	22	1.06/HSP1	40.0	7.0	5.0	15.0	11.5	1675990	1.07/AS-2

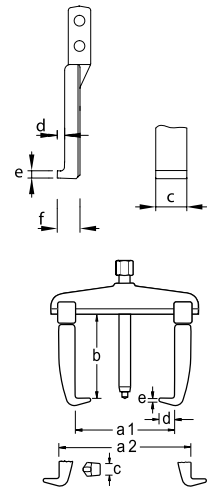
# 1.07/K PULLER SET





with 9 legs

- > In plastic case
- > Contents: 1 spindle, 1 cross-beam each 2- and 3-arm pattern and 9 slim pulling legs in 3 lengths
- > Second spindle in the set 1.07/K saves working time
- > 1.07/K-2 insert with nubs on both sides



1.07/K



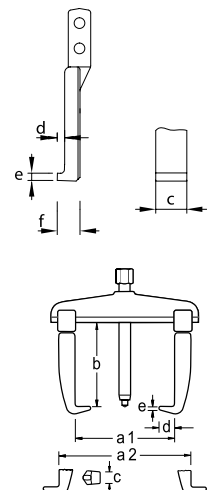
a	b	max. t		 mm	optional 	c	d	e	 kg	Code	No.
130	100 / 200 / 250	2.5	M 14x1,5 x 140	17	–	27	7.5	3.7	5.8	8117340	1.07/K
200	150 / 220 / 300	5.0	G 1/2 x 210	22	1.06/HSP1	40	7.0	5.0	13.5	1676008	1.07/K-2







# 1.07/K-SE PULLER SET

with 3 legs

- > In plastic case
- > Contents: 1 spindle, 1 cross-beam each 2- and 3-arm pattern and 3 quick-release pulling legs
- > Second spindle in the set 1.07/K-1-SE saves working time

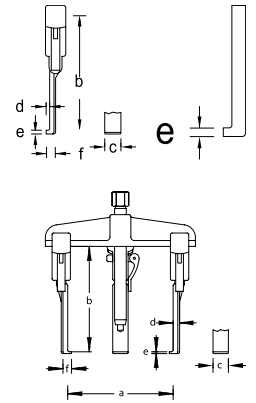


a <sub>1</sub>	b	max. t		 mm	optional 	c	d	e	 kg	Code	No.
90	100	2.5	M 14x1,5 x 140	17	–	27	7.5	3.7	2.2	1438484	1.07/K-1-SE
160	150	5.0	G 1/2 x 210	22	1.06/HSP1	40	7.0	5.0	5.5	1645455	1.07/K-2-SE

# 1.07/K-SE 5 PULLER SET

with 6 legs

- > In plastic case
- > The forged leg feet are very slim particularly suitable for barely accessible places
- > Quick release legs for fast, easy set-up and adjustment
- > Contents: 2 spindles, 1 cross-beam each 2- and 3-arm pattern, and 6 slim quick-release pulling legs in 2 lengths
- > Clamping reach 100 mm = thickness of hooked foot at tip (e) 3.7 mm, max. 2.5 t
- > Clamping reach 200 mm = thickness of hooked foot at tip (e) 2.0 mm, max. 2.0 t

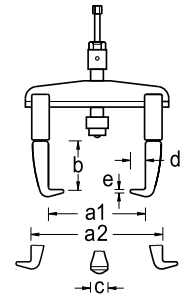





a	b		 mm	c	d		Code	No.
90	100 / 200	M 14x1,5 x 140	17	27	7.5	4.2	1745158	1.07/K-1-SE 200 S

# 1.07/K-HSP PULLER SET

with 3 legs

- > For internal and external use, for hard, everyday use, for industrial use, or on cars and trucks
- > In plastic case
- > Contents: 1 hydraulic spindle, 1 cross-beam each 2- and 3-arm pattern and 3 quick-release pulling legs
- > The pressure piece can be replaced by a tip and lengthened, as required.
- > The small pressure spindle is secured with an unscrewing lock to stop any accidental withdrawal.

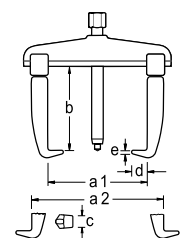


a <sub>1</sub>	a <sub>2</sub>	b	max. t	max. N-m		 mm	c	d	e		Code	No.
160	220	70	5.0	9	1.06/HSP1	32	30	18	3.5	7.2	1438492	1.07/K-2-E-HSP1

# 1.07/K-B PULLER SET

with 3 legs, with leg brake

- > In plastic case
- > Contents: 2 spindles, 1 cross-beam each 2- and 3-arm pattern and 3 rigid legs with leg brake
- > Prevents unintentional leg slipping. The leg can be slid along the cross-beam at the push of a button
- > By reversing the legs, this tool can be used as an internal or external puller
- > Extra spindle supplied for convenience



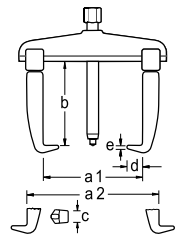
a	b	max. t		 mm	c	d	e		Code	No.
140	100	3.0	M 14x1,5 x 140	17	22	15	3.0	2.9	2224097	1.07/K-1A-B






# 1.08 UNIVERSAL PULLER

2-arm pattern, with fast spindle adjustment

- > Twice as fast and twice as simple
- > With the fast spindle adjustment feature, the spindle can be set the desired range in a moment. When the clamping yoke is released, the 4-part internal thread closes, and takes the full working pressure



$a_1$	$a_{2\min}$	$a_{2\max}$	b	max. t			c	d	e		Code	No.
200	110	260	150	5.0	G 1/2 x 210	22	30	18	3.5	4.1	8000070	1.08/2A

1500 ES-1.07

>103



1100-1.04

>56



1100-1.30

>57



# SUMMARY OF PULLER LEGS

106/XX-YY-ZZ xx = Leg size (A-C) yy = Leg length (in mm) zz = Leg type

for 2-arm puller  
for 3-arm puller  
Mechanical replacement spindle  
Hydraulic replacement spindle

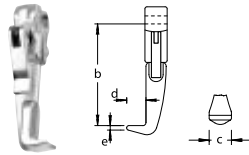
# A

1.04/1A... 1.04/HP1A...  
1.06/1... 1.06/1A...  
1.07/1... 1.07/1A...  
M14x1,5

## TE = THE PROVEN LEG

### 104/TE

> Quick-release pulling leg for 1.04

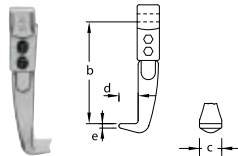


b	c	d	e		Code	No.
100	22	12	3.0	0.3	1499351	104/A-100-TE

## N = THE PROVEN LEG

### 106/N

> 1 leg incl. clamping parts with the reliable screw connection in various lengths

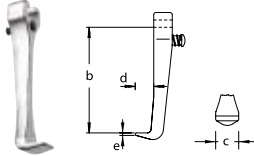


b	c	d	e		Code	No.
100	22	12	3.0	0.260	1120514	106/A-100-N
200	22	12	3.0	0.440	1120522	106/A-200-N

## B = THE STURDY LEG

### 106/B

> 1 leg with leg brake, secured against unintentional slipping, movement of the leg on the cross-beam at the touch of a button, forged from one piece

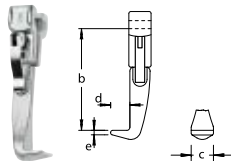


b	c	d	e		Code	No.
100	22	15	3.0	0.240	1970534	106/A-100-B

## E = THE QUICK USE LEG

### 106/E

> leg incl. clamping parts with quick-release adjustment, for fast and uncomplicated setting and adjustment

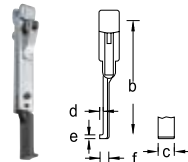


b	c	d	e		Code	No.
100	22	12	3.0	0.280	1178199	106/A-100-E

## SE = THE SLENDER LEG

### 106/SE

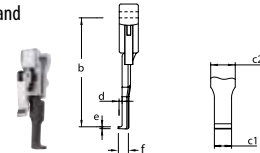
> 1 slim leg incl. clamping parts with quick-release adjustment, for fast and uncomplicated setting and adjustment



b	c	d	e	f		Code	No.
100	27	7.5	3.7	13.5	0.280	1438514	106/A-100-SE
200	27	7.5	3.7	13.5	0.440	2015757	106/A-200-SE
250	27	7.5	3.7	13.5	0.580	2015773	106/A-250-SE
100	27	7.5	2.0	13.5	0.280	2015781	106/A-100-SSE
200	27	7.5	2.0	13.5	0.460	2015811	106/A-200-SSE
250	27	7.5	2.0	13.5	0.580	2015846	106/A-250-SSE

## XSE = THE SOPHISTICATED LEG 106/XSE

> 1 extra slim leg incl. clamping parts with quick-release adjustment, for fast and uncomplicated setting and adjustment  
> Particularly suitable for barely accessible places, e.g. gear maintenance



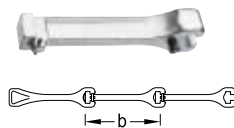
b	c <sub>1</sub>	c <sub>2</sub>	d	e	f		Code	No.
100	16.0	25	5.0	3.7	9.6	0.240	2018748	106/A-100-XSE

## VB = THE FLEXI LEG

### 106/VB

with leg brake

> Using the extension between cross-beam and leg the clamping reach can be extended indefinitely  
> Forged from one piece  
> Leg brake for more safety



b		Code	No.
100	0.236	2329034	106/A-100-VB

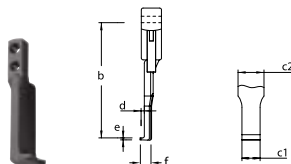
## THE SLIM FIT LEG

### 106/S - 108/XS

> The small black  
> 1 slim leg foot for use in confined spaces

\*S = Spare foot for THE SLIM

\*\*XS = Spare foot for THE FILIGREE



c	d	e	f		Code	No.
27	7.5	3.7	14.5	0.100	1076957	106/S101
27	7.5	2.0	14.5	0.110	1495607	106/S101-S

c <sub>1</sub>	c <sub>2</sub>	d	e	f		Code	No.
16.0	25	5.0	3.7	9.6	0.102	2013681	106/XS101

# B

1.04/2A... 1.04/HP2A...  
1.06/2... 1.06/2A...  
1.07/2... 1.07/2A...  
G1/2"  
1.06/HSP1

# C

1.04/3A... 1.04/HP3A...  
1.06/3... 1.06/3A... 1.06/4...  
1.07/3... 1.07/4... 1.07/4A...  
G3/4"  
1.06/HSP2 1.06/HSP3

b	c	d	e		Code	No.
150	30	18	3.5	0.7	1499378	104/B-150-TE

b	c	d	e		Code	No.
200	36	28	6.5	2.9	1499386	104/C-200-TE

b	c	d	e		Code	No.
150	30	18	3.5	0.700	1120530	106/B-150-N
300	30	18	3.5	1.250	1123947	106/B-300-N

b	c	d	e		Code	No.
200	36	28	6.5	1.560	1120549	106/C-200-N
300	36	28	6.5	2.360	1120557	106/C-300-N
400	36	28	6.5	2.940	1120565	106/C-400-N
500	36	28	6.5	3.500	1120573	106/C-500-N

b	c	d	e		Code	No.
150	30	24	3.5	0.580	1970542	106/B-150-B

b	c	d	e		Code	No.
200	36	32	5.0	1.160	1970550	106/C-200-B

b	c	d	e		Code	No.
150	30	18	3.5	0.720	1178253	106/B-150-E

b	c	d	e		Code	No.
200	36	28	6.5	1.520	1178350	106/C-200-E

b	c	d	e	f		Code	No.
150	40	7.0	5.0	15.0	0.700	1671499	106/B-150-SE
220	40	7.0	5.0	15.0	0.980	2015862	106/B-220-SE
300	40	7.0	5.0	15.0	1.230	2015870	106/B-300-SE

b	c <sub>1</sub>	c <sub>2</sub>	d	e	f		Code	No.
150	17.5	32	5.5	3.5	11.0	0.620	2018756	106/B-150-XSE

b		Code	No.
150	0.560	2329042	106/B-150-VB

b		Code	No.
200	1.320	2329050	106/C-200-VB

c	d	e	f		Code	No.
40	7.0	5.0	15.5	0.330	1671898	108/S201

c <sub>1</sub>	c <sub>2</sub>	d	e	f		Code	No.
17.5	32	5.5	3.5	11.0	0.230	2013711	108/XS201

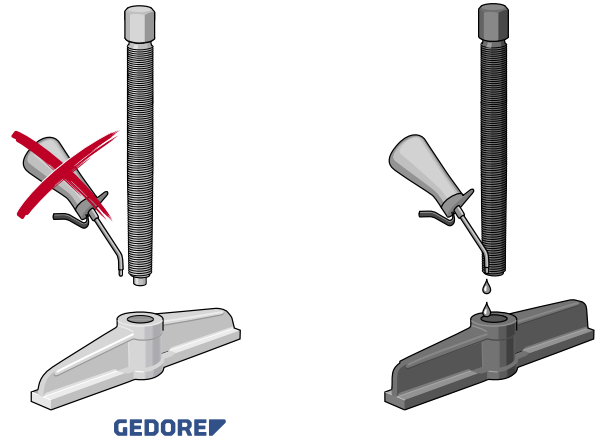


## Spindle summary

### GEDORE SPINDLES ...

- › ... **require no maintenance!**
- › ... comprise turned hardened and tempered steel. The fine thread is then rolled - this additional strengthening of the steel gives rolled thread a higher strength than a thread produced by cutting.
- › ... have a fine thread which stops any unintended slackening from vibrations.
- › ... are thermo-chemically treated. Nitro-carburating makes the spindle extremely wear-resistant and corrosion-proof. Nitro-carburated surfaces have excellent sliding properties.
- › ... **Oiling and greasing is not needed and**, as such, the thread stays clean and smooth much longer. (Resinated, used oil attracts dirt and chips like magic. The thread pitches clog and turning the thread is not easy - in the final resort, this results in ruination of the thread. Not to speak of that irksome task of regularly filling up with oil.)
- › ... are fitted out with a replaceable spindle tip which is equally suitable for both centred and non-centred shafts\*.

\* As standard with extractors Nos. 1.04 and No.1.09



### SPINDLE SUMMARY

- › KS = ball tip, exchangeable
- \* Pull spindle



Threads	usable length	Size/Drive	Ball	Tip	⚖️	Code	No.
M 10x1,5	160	14	x		0.100	1084739	129.106
M 12x1,5	110	14		x	0.100	1084445	1.1206110
M 14x1,5	50	17		x	0.009	1084453	1.1406050
M 14x1,5	125	17	x		0.170	1084461	1.1406125
M 14x1,5	140	17		x	0.180	1084488	1.1406140
M 14x1,5	140	17	x	x	0.180	1546821	<b>1.1406140KS</b>
M 14x1,5	150	17		x	0.009	1084798	144.15006
M 14x1,5	155	17		x	0.009	1084518	1.1406155
M 14x1,5	200	17	x		0.220	1576224	1.1406200
M 14x2,0	210	17	x		0.250	1084755	129.306
M 18x1,5	80	19		x	0.185	1084526	1.1806080
M 18x1,5	130	19		x	0.280	1084542	1.1806130
M 18x1,5	170	19		x	0.345	1084550	1.1806170
M 18x1,5	200	19		x	0.009	1084569	1.1806200
M 18x2,5	230	19	x		0.500	1084763	129.406
G 1/2"	110	22	x		0.340	1084577	1.2106110
G 1/2"	160	22		x	0.455	1084585	1.2106160

Threads	usable length	Size/Drive	Ball	Tip	⚖️	Code	No.
G 1/2"	175	22		x	0.009	1084623	1.2106175
G 1/2"	210	22		x	0.590	1084593	1.2106210
G 1/2"	210	22	x	x	0.180	1546872	1.2106210KS
G 1/2"	250	22		x	0.680	1084631	1.2106250
G 1/2"	250	22	x	x	0.680	1795112	1.2106250KS
G 1/2"	350	22			0.009	1084658	1.2106350
G 1/2"	350	22	x	x	0.010	1806564	1.2106350KS
G 1/2"	400	16			1.100	*1076132	1/2106400
M 20x2,5	235	22	x		0.500	1084771	129.506
G 3/4"	200	27		x	0.980	1084666	1.2606180
G 3/4"	280	27		x	1.200	1084674	1.2606280
G 3/4"	280	27	x	x	1.300	1546910	1.2606280KS
G 1"	310	36		x	2.238	1084690	1.3306310
G 1"	360	36		x	2.540	1084704	1.3306360
G 1"	500	36	x		3.600	1084712	1.3306500
G 1.1/4"	270	41		x	3.160	1084720	1.4206270

### Spindles - Mechanical spindle, hydraulic spindle or hydraulic press?



- › The GEDORE puller mechanical spindles provide plenty of benefits: made of hardened and tempered steel, rolled fine thread and thermo-chemically treated - hence they are especially both wear and corrosion resistant.
- › Particularly with high forces, using a hydraulic spindle can be both time and effort-saving. The hydraulic spindle principle is both straightforward and ingenious at the same time. The effect of screwing in the clamping bolt is to compress the grease inside the hydraulic piston - the extending piston acts on the part to be extracted with a force many times greater than that

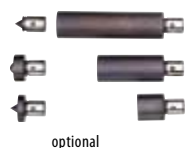
- manually applied at the top. This controlled operation provides for working safely with the hydraulic spindle and is recommended, in particular, for high levels of force.
- › The hydraulic press represents an alternative to the hydraulic spindle. It is attached between the mechanical spindle and shaft and through hydraulic force supports the spindle.
- › As the puller cannot be rotated during extraction, pulling with the assistance of hydraulic aids saves both on time and the effort needed.

## 1.06/HSP HYDRAULIC PRESSURE SPINDLE

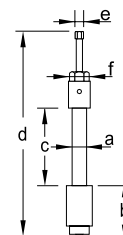
- > For controlled and safe pulling work
- > Set up for a pressure of 10 t, 12 t or 15 t
- > The pressure piece can be replaced by a tip and lengthened, as required.
- > The small pressure spindle is secured with an unscrewing lock to stop any accidental withdrawal.

### Preparation for use:

1. Before using, check whether the pressure spindle is screwed far enough out of the cap, so that the pressure pad is in the initial position in the hydraulic cylinder.
2. Unscrew the cap from the spindle body. For this purpose, first slacken off the grub screw.
3. Screw the spindle body from beneath into the cross piece of the puller until the body protrudes approx. 60 mm from the cross piece.
4. Screw the cap onto the spindle body until the stop, and then fix it in position by turning in the grub screw.



optional



a	max. t	max. N-m	b	c	d	e	f	Stroke		Code	No.
<b>G 1/2"</b>	10	17	80	135	350	12	32	12	1.1	8116100	1.06/HSP1
<b>G 3/4"</b>	12	19	80	205	420	12	36	12	1.8	8116290	1.06/HSP2
<b>G 1"</b>	15	33	125	165	465	17	41	12	3.3	8116370	1.06/HSP3

### Use and operation: e.g. HSP3

5. Place the puller into position and pre-tension the spindle body using a size 41 mm wrench.
6. Screw the pressure spindle size 17 mm into the cap. The hydraulic effect will come into use. The stroke of the pressure pad in the hydraulic cylinder is max. 12 mm. The workpiece that has been loosened by the hydraulic force may be pulled off completely by turning the spindle body with the cap size 41 mm.
7. Following its use, the pressure spindle (size 17 mm) is turned back into its initial position and the pressure pad pushed into the hydraulic cylinder.

## 1.06/HSP-V EXTENSION FOR HYDRAULIC SPINDLE



1.06/HSP-35V / -85V / -135V

usable length	$\langle$ -mm $\rangle$		Code	No.
<b>35</b>	60	0.250	2824787	1.06/HSP-35V
<b>85</b>	110	0.600	2824841	1.06/HSP-85V
<b>135</b>	160	0.950	2824868	1.06/HSP-135V

## 1.06/HSP-D THRUST-CARRYING MEMBER FOR HYDRAULIC SPINDLE



DSK / DK / DS

Execution		Code	No.
<b>with ball</b>	0.170	2824876	1.06/HSP12-DK
<b>with tip</b>	0.130	2824884	1.06/HSP12-DS
<b>with tip, short</b>	0.070	2824892	1.06/HSP12-DSK
<b>with tip</b>	0.200	2824906	1.06/HSP3-DS

## 1.55 HYDRAULIC PRESS

- > This piece of auxiliary equipment considerably increases the capability of the standard pressure spindle
- > Operation: With pressure released, the press is placed between the pressure spindle and the end of the shaft. The pressure spindle is then tightened firmly. Care must be taken that the centreline of the shaft, the hydraulic press, and the pressure spindle are exactly in alignment. Then the hydraulic spindle is screwed inwards.
- > **Important note:** Release the hydraulic press after use



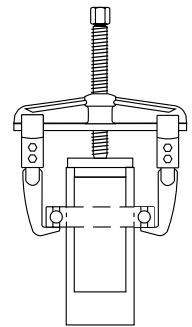
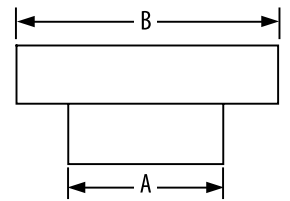
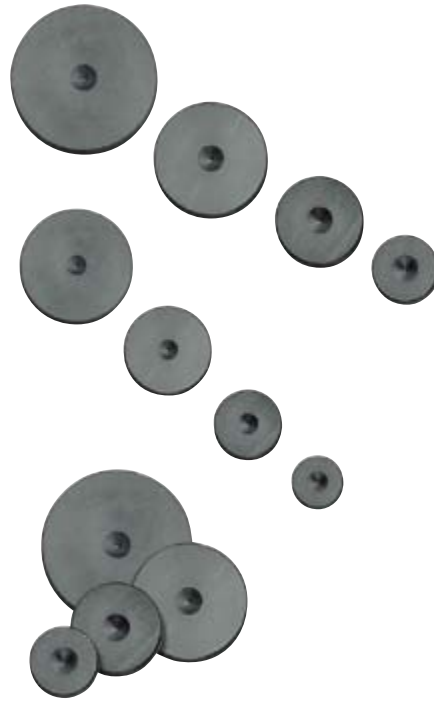
max. t	Stroke height	Installation height		Code	No.
<b>8</b>	10	75	1.0	8024090	1.55/1
<b>15</b>	15	90	1.8	8024170	1.55/2


## Spindle pressure pads

# 1.80 SPINDLE PRESSURE PADS

for axle bores (hollow shafts)

- › For the removal of bearings and gear wheels that are mounted on hollow shafts or in housings
- › The spindle pressure pad serves as a counter-axis to the puller, where the spindle now transfers the force to the pressure pad



A Holder Ø	B Plate Ø	 kg	Code	No.
19	25	2.3	1120697	1.80/1
22	28			
25	32			
28	35			
32	41			
35	44			
38	48			
41	50			
44	54			
48	60			
50	64			
54	67	2.4	1120700	1.80/2
57	70			
60	73			
64	78			
70	83			
76	90			
32	41	4.3	1120719	1.80/3
35	44			
38	48			
41	50			
44	54			
48	60			
50	64			
54	67			
57	70			
60	73			
64	78			
70	83			
76	90			

## Bearing assembly

### 1.85/1 PROFESSIONAL PLASTIC BEARING INSTALLATION SET

- > The impact-resistant plastic is handily light, but just as robust as the metal variants
- > The impact rings are now secured on the pipe
- > Using this bearing installation set more than 200 types of bearings may be re-installed effortlessly and without damage
- > In a strong plastic case, dimensions 450 x 360 x 140 mm




Contents		Code	No.
<b>33 impact rings, 10-50 mm for external Ø 26-110 mm</b>	5.2	1120778	1.85/1
<b>3 aluminium impact sleeves</b>			
<b>1 recoil-free bodywork hammer with nylon heads (1.2 kg)</b>			

## Safety cover

### 5.10 SAFETY COVER SIZE 1

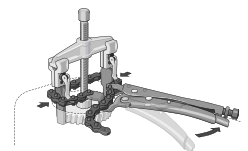
- > At pulling forces of 18 t, these PVC safety covers provide maximum active-safety protection from suddenly detaching ball bearings, driving pinions or small parts. The safety covers are extremely flexible, making them suitable for all situations.
- > Dimensions 510 x 915 mm
- > Double-ply welded = double safety (total thickness at 0.5 mm = 1.0 mm)
- > Tear strength: longitudinal 23 N/mm<sup>2</sup> - lateral 21 N/mm<sup>2</sup>
- > Two straps for variable adjustment
- > Press stud fasteners for added safety - no flapping ends
- > UV resistant
- > Temperature resistant at -25 °C to +50 °C
- > Storage in the supplied carry bag guarantees long service life




	Code	No.
1.5	1868195	5.10

### 136 K CHAIN GRIP WRENCH

- > Particularly suited for clamping geometrically problematical cross-sections
- > With No. 136 K-105 the legs of various pullers - following locking - can be spanned with the chain at the component to be extracted and tightened. This stops the legs bending outwards and slipping. Pulling is still possible even if the legs have a very restricted contact surface.
- > As the chain is 1050 mm long up to a 330 mm circumference is possible



max. Ø	↳ mm ↳		Code	No.
330	1050	1.5	2307227	136 K-105



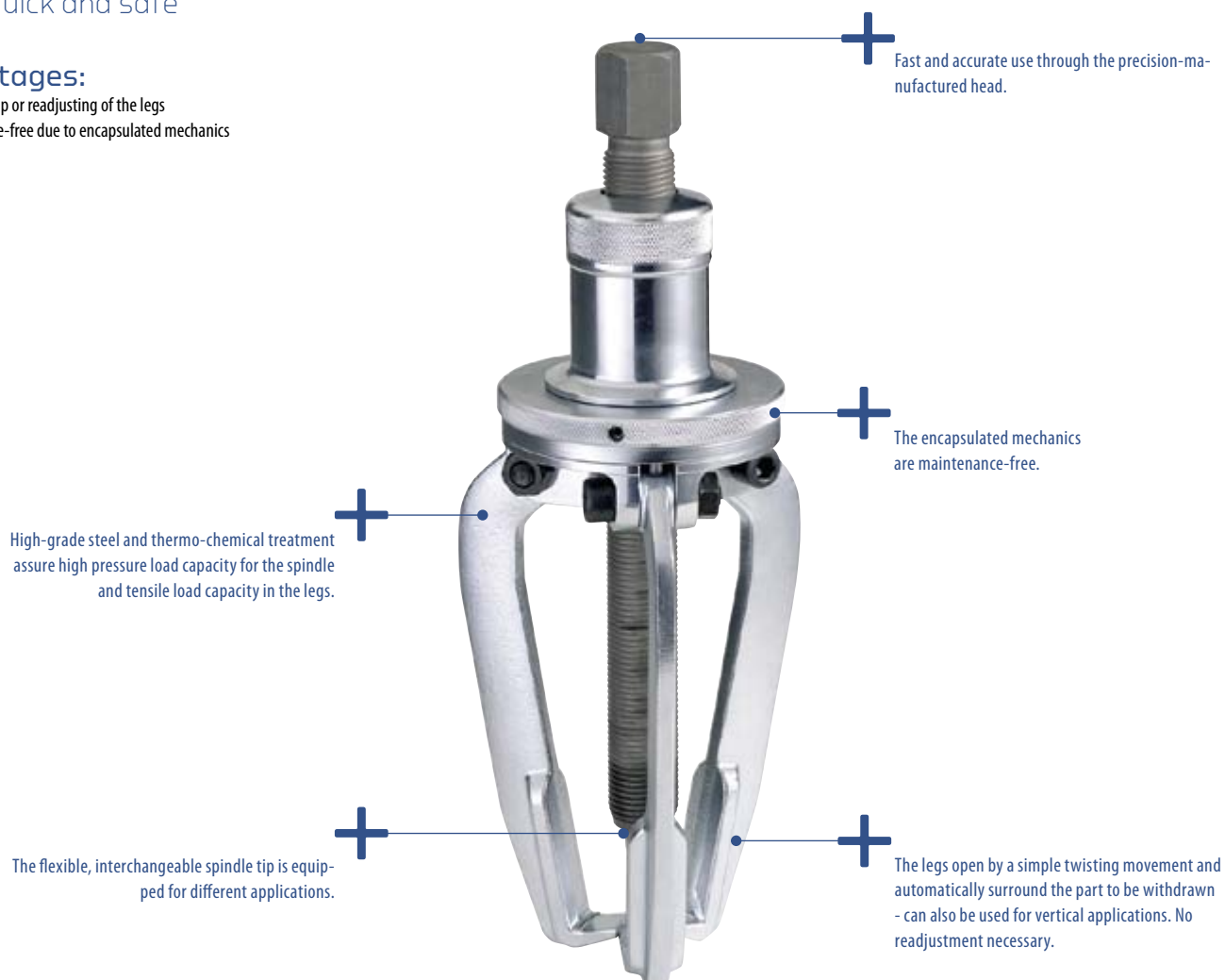
# 3-arm External Puller Twist + Pull

## 1.09 PULLER TWIST & PULL

Easy, quick and safe

### Advantages:

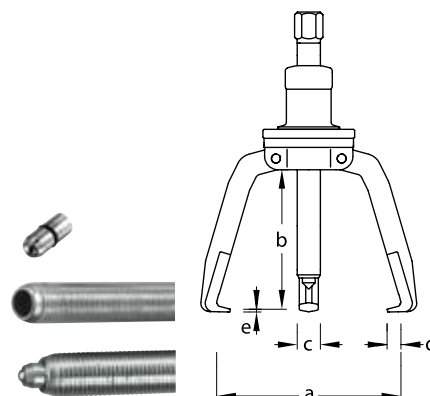
- > No setting-up or readjusting of the legs
- > Maintenance-free due to encapsulated mechanics






## 1.09 PULLER TWIST + PULL

3-arm pattern, with rotating adjustment

- > The precise manufactured head allows fast and exact use
- > The legs open by simple rotation and enclose automatically the part to be removed
- > No more time-consuming set-up and readjusting of the legs
- > High-quality steel and thermo-chemical treatment guarantee highest toughness of the spindle and the legs
- > Ball or tip can easily be exchanged



a <sub>min</sub>	a <sub>max</sub>	b		 mm	c	d	e	max. t		Code	No.
30	150	130	G 1/2 x 250	22	17	12	3.0	6.5	2.5	1748173	1.09/1
80	250	250	G 1/2 x 350	22	24	12	3.0	6.5	4.2	1748181	1.09/2



## 2-/3-arm Fan / Battery-terminal Pullers

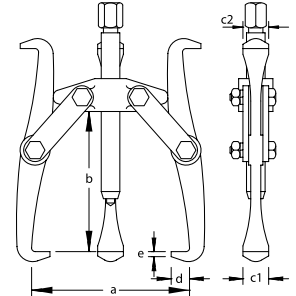
### 1.10 PULLER

#### 2-arm pattern

- > The reliable, heavy-duty model for the removal of pulleys, wheels, ball bearings, etc.
- > The double leg ends, wide or narrow, grip automatically
- > The wide leg ends of the puller 1.10/2, /3, /4 and /5 possess 8 mm slots, so that pulleys or gears may also be pulled off using 8 mm bolts



1.10/1      1.10/2 – 1.10/5



a <sub>max</sub>	b	max. t		mm	optional	c <sub>1</sub>	c <sub>2</sub>	d	e		Code	No.
90	80	2.0	M 14x1,5 x 125	17	–	17	10	7	2.0	0.7	8002600	1.10/1
160	130	5.0	M 18x1,5 x 170	19	–	24	20	13	3.0	2.0	8002790	1.10/2
220	170	5.0	M 18x1,5 x 170	19	–	24	20	13	3.0	2.3	1731874	1.10/3
320	260	8.0	G 1/2 x 350	22	1.06/HSP1	27	32	27	6.5	5.1	1731882	1.10/4
400	320	8.0	G 1/2 x 350	22	1.06/HSP1	27	32	27	6.5	5.8	1731890	1.10/5

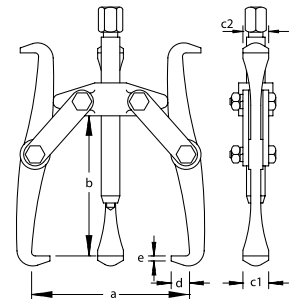
### 1.11 PULLER

#### 3-arm pattern

- > The reliable, heavy-duty model for the removal of pulleys, wheels, ball bearings, etc.
- > The double leg ends, wide or narrow, grip automatically
- > The wide leg ends of the puller 1.11/2, /3, /4 and /5 possess 8 mm slots, so that pulleys or gears may also be pulled off using 8 mm bolts



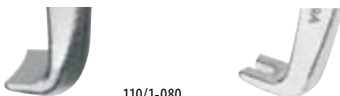
1.11/1      1.11/2 – 1.11/5



a <sub>max</sub>	b	max. t		mm	optional	c <sub>1</sub>	c <sub>2</sub>	d	e		Code	No.
90	80	3.0	M 14x1,5 x 125	17	–	17	10	7	2.0	0.9	8002950	1.11/1
160	130	7.5	M 18x1,5 x 170	19	–	24	20	13	3.0	2.6	8003090	1.11/2
220	170	7.5	M 18x1,5 x 170	19	–	24	20	13	3.0	3.2	1731904	1.11/3
320	260	12.0	G 1/2 x 350	22	1.06/HSP1	27	32	27	6.5	5.8	1731912	1.11/4
400	320	12.0	G 1/2 x 350	22	1.06/HSP1	27	32	27	6.5	8.0	1731920	1.11/5

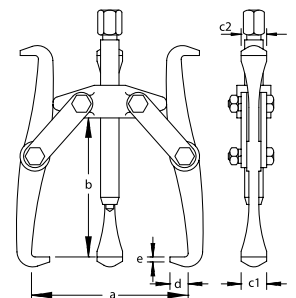
### 110 PULLING LEG

- > Double ended with wide or narrow grips
- > Complete with clips and screws



110/1-080

110/2-130 – 110/5-320

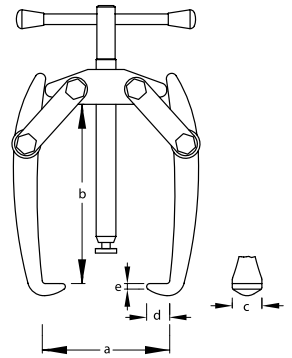




	b	c <sub>1</sub>	c <sub>2</sub>	d	e		Code	No.		b	c <sub>1</sub>	c <sub>2</sub>	d	e		Code	No.
	80	17	10	7	2.0	0.2	2303086	110/1-080		260	27	32	27	6.5	1.6	2303116	110/4-260
	130	24	20	13	3.0	0.6	2303094	110/2-130		320	27	32	27	6.5	1.8	2303124	110/5-320

# 1.12 BATTERY-TERMINAL PULLER

2-arm pattern

- > Ideal for removing small parts such as battery terminals, pulleys, wheels, ball bearings, etc.
- > The legs grip automatically

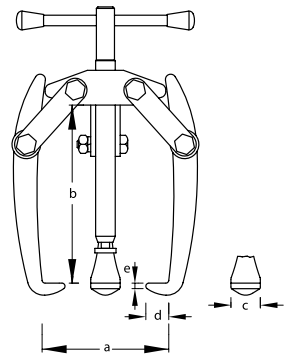




a <sub>max</sub>	b	max. t		c	d	e		Code	No.
60	40	0.5	M 10x1,5 x 60	10	5	2	0.160	8003840	1.12/02
60	60	0.5	M 10x1,5 x 80	10	5	2	0.180	8003760	1.12/01
70	80	0.5	M 10x1,5 x 100	14	8	2	0.300	1628402	1.12/00

# 1.13 BATTERY-TERMINAL PULLER

3-arm pattern

- > Ideal for removing small parts such as battery terminals, pulleys, wheels, ball bearings, etc.
- > The legs grip automatically





a <sub>max</sub>	b	max. t		c	d	e		Code	No.
60	40	0.75	M 10x1,5 x 60	10	5	2	0.200	8004650	1.13/02
60	60	0.75	M 10x1,5 x 80	10	5	2	0.200	8004570	1.13/01
70	80	1.0	M 10x1,5 x 100	14	8	2	0.400	1628410	1.13/00

# 112 PULLING LEG

- > Complete with clips and screws

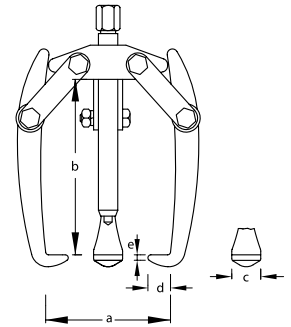






	b	c	d	e		Code	No.
1.12/02 + 1.13/02	40	10	5	2	0.050	2303132	112/02-040
1.12/01 + 1.13/01	60	10	5	2	0.050	2303140	112/01-060
1.12/00 + 1.13/00	80	14	8	2	0.100	2303159	112/00-080

## 1.12 PULLER

### 2-arm pattern

- > Handy robust model for the removal of pulleys, wheels, ball bearings, etc.
- > Inexpensive economy model
- > The legs grip automatically

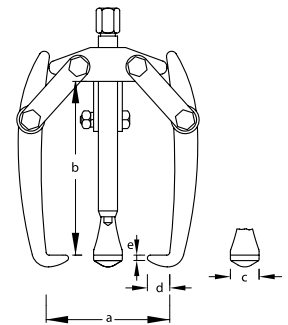






a <sub>max</sub>	b	max. t		 mm	optional 	c	d	e		Code	No.
70	80	1.0	M 12x1,5 x 110	14	–	14	8	2	0.4	8003250	1.12/0
90	120	2.0	M 14x1,5 x 155	17	–	18	11	2	0.8	8003330	1.12/1
130	160	5.0	M 18x1,5 x 200	19	–	25	14	3	1.9	8003410	1.12/2
180	200	8.0	G 1/2 x 250	22	1.06/HSP1	32	20	4	3.7	8003680	1.12/3

## 1.13 PULLER

### 3-arm pattern

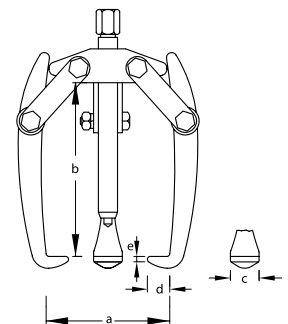
- > Handy robust model for the removal of pulleys, wheels, ball bearings, etc.
- > Inexpensive economy model
- > The legs grip automatically





a <sub>max</sub>	b	max. t		 mm	optional 	c	d	e		Code	No.
70	80	2.0	M 12x1,5 x 110	14	–	14	8	2	0.5	8004140	1.13/0
90	120	3.0	M 14x1,5 x 155	17	–	18	11	2	1.5	8004220	1.13/1
130	160	7.5	M 18x1,5 x 200	19	–	25	14	3	2.5	8004300	1.13/2
180	200	12.0	G 1/2 x 250	22	1.06/HSP1	32	20	4	5.3	8004490	1.13/3

## 112 PULLING LEG

- > Complete with clips and screws



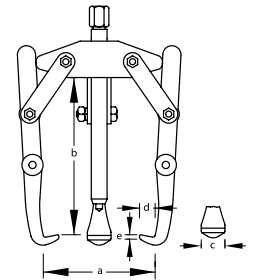
	b	c	d	e		Code	No.
1.12/0 + 1.13/0	80	14	8	2	0.095	2303167	112/0-080
1.12/1 + 1.13/1	120	18	11	2	0.205	2303175	112/1-120
1.12/2 + 1.13/2	160	25	14	3	0.550	2303183	112/2-160
1.12/3 + 1.13/3	200	32	20	4	1.070	2303191	112/3-200







# 1.14 PULLER

## 2-arm pattern

- > The reliable, extra-strong model for the removal of pulleys, wheels, ball bearings, etc.
- > With technical and economical benefits due to the variable clamping reach and automatic grip of the legs
- > Especially suited to removing V-belt pulley wheels and flywheels mounted on longer shafts
- > Upgradeable with hydraulic spindle (see table)

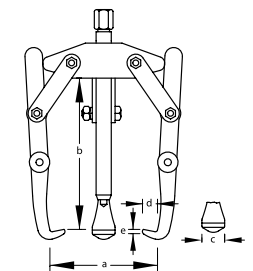






a <sub>max</sub>	b	max. t		 mm	optional 	c	d	e		Code	No.
90	100	1.0	M 12x1,5 x 110	14	–	14	9	2.0	0.4	8004810	1.14/0
130	140	2.0	M 14x1,5 x 140	17	–	18	11	2.0	0.9	8005030	1.14/1
200	210	5.0	M 18x1,5 x 200	19	–	25	16	3.0	2.2	8005380	1.14/2
250	260	8.0	G 1/2 x 250	22	1.06/HSP1	32	18	3.5	4.4	8005460	1.14/3
280	390	8.0	G 1/2 x 250	22	1.06/HSP1	32	20	3.5	5.1	8005540	1.14/4
420	480	8.0	G 1/2 x 350	22	1.06/HSP1	32	20	3.5	6.0	8005620	1.14/5

# 1.15 PULLER

## 3-arm pattern

- > The reliable, extra-strong model for the removal of pulleys, wheels, ball bearings, etc.
- > With technical and economical benefits due to the variable clamping reach and automatic grip of the legs
- > Especially suited to removing V-belt pulley wheels and flywheels mounted on longer shafts
- > Upgradeable with hydraulic spindle (see table)

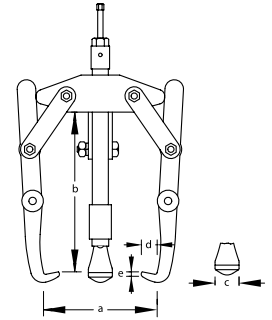





a <sub>max</sub>	b	max. t		 mm	optional 	c	d	e		Code	No.
90	100	2.0	M 12x1,5 x 110	14	–	14	9	2.0	0.5	8006000	1.15/0
130	140	3.0	M 14x1,5 x 140	17	–	18	11	2.0	1.2	8006190	1.15/1
200	210	7.5	M 18x1,5 x 200	19	–	25	16	3.0	3.3	8006350	1.15/2
250	260	12.0	G 1/2 x 250	22	1.06/HSP1	32	18	3.5	6.3	8006430	1.15/3
280	390	12.0	G 1/2 x 250	22	1.06/HSP1	32	20	3.5	7.7	8006510	1.15/4
420	480	12.0	G 1/2 x 350	22	1.06/HSP1	32	20	3.5	8.9	8006780	1.15/5

# 1.15/HSP PULLER

hydraulic, 3-arm pattern

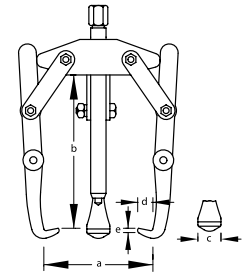
- > The reliable, extra-strong model for the removal of pulleys, wheels, ball bearings, etc.
- > With technical and economical benefits due to the variable clamping reach and automatic grip of the legs
- > Especially suited to removing V-belt pulley wheels and flywheels mounted on longer shafts
- > With the hydraulic spindle, a controlled and safe pulling action is possible at all times
- > Also available with standard spindle - Model 1.15





a <sub>max</sub>	b	max. t	max. N-m			c	d	e		Code	No.
250	180	10	17	1.06/HSP1	32	32	18	3.5	6.6	1392956	1.15/3-HSP1
280	310	10	17	1.06/HSP1	32	32	20	3.5	8.1	1392980	1.15/4-HSP1

# 114 PULLING LEG

- > With variable clamping reach
- > Complete with clips and screws

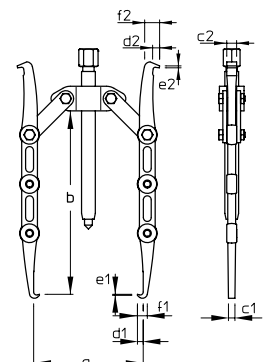
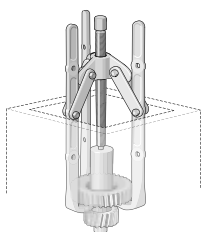





	b	c	d	e		Code	No.
1.14/0 + 1.15/0	100	14	9	2.0	0.100	2303213	114/0-100
1.14/1 + 1.15/1	140	18	11	2.0	0.250	2303221	114/1-140
1.14/2 + 1.15/2	210	25	16	3.0	0.750	2303248	114/2-210
1.14/3 + 1.15/3	260	32	18	3.5	1.470	2303256	114/3-260
1.15/3-HSP1							
1.14/4 + 1.15/4	390	32	20	3.5	1.750	2303264	114/4-390
1.15/4-HSP1							
1.14/5 + 1.15/5	480	32	20	3.5	2.150	2303272	114/5-480

# 1.14/L FAN PULLER

2-arm pattern

- > Especially slender legs will each adjust to 3 clamping positions
- > The double leg ends, wide or narrow, clamp automatically when under tension
- > For use on fans with 2-holes up from Ø 10 mm



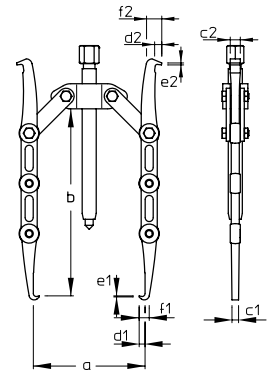
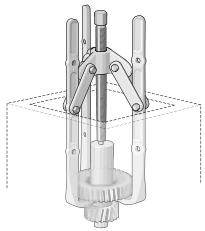
a <sub>max</sub>	b	max. t			c <sub>1</sub>	c <sub>2</sub>	d	e <sub>1</sub>	e <sub>2</sub>	f <sub>1</sub>	f <sub>2</sub>		Code	No.
150	100-200	1.0	M 14x1,5 x 155	17	6.6	10	6	1	2	10	16.5	0.9	8005110	1.14/L



# 1.15/L FAN PULLER

## 3-arm pattern

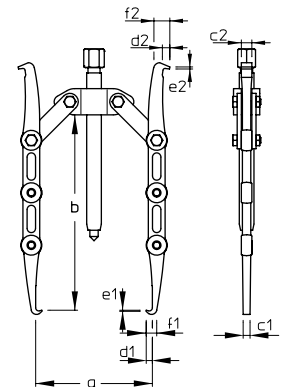
- > Especially slender legs will each adjust to 3 clamping positions
- > The double leg ends, wide or narrow, clamp automatically when under tension
- > For use on fans with 3-holes up from Ø 10 mm



$a_{max}$	b	max. t			$c_1$	$c_2$	d	$e_1$	$e_2$	$f_1$	$f_2$		Code	No.
150	100-200	1.5	M 14x1,5 x 155	17	6.6	10	6	1	2	10	16.5	1.3	8006270	1.15/1L

# 114/L PULLING LEG

- > Especially slender leg will adjust to 3 clamping positions
- > Complete with 2 clips and 2 screws

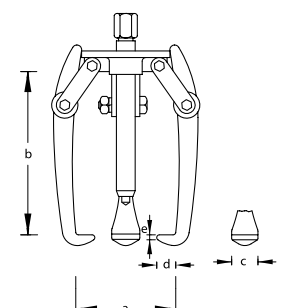


	b	$c_1$	$c_2$	d	$e_1$	$e_2$	$f_1$	$f_2$		Code	No.
1.14/1L + 1.15/1L	100 / 150 / 200	6.6	10	6	1	2	10	16.5	0.3	2303310	114/1-200-L

# 1.16 PULLER

## 2-arm pattern

- > Very strong
- > Made for industrial applications and for use on heavy agricultural and construction machines
- > The legs grip automatically
- > Upgradeable with hydraulic spindle (see table)
- > Can be extended to 3 arms by additionally buying a large hook no. 116

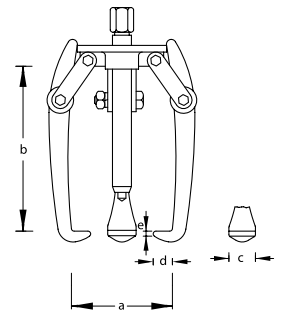






$a_{max}$	b	max. t			optional	c	d	e		Code	No.
300	300	8.0	G 1 x 360	36	1.06/HSP3	32	19	3.0	8.4	8007080	1.16/1
450	420	8.0	G 1 x 500	36	1.06/HSP3	32	22	3.0	10.0	8007160	1.16/2

# 1.17 PULLER

## 3-arm pattern

- > Very strong
- > Made for industrial applications and for use on heavy agricultural and construction machines
- > The legs grip automatically
- > Upgradeable with hydraulic spindle (see table)
- > For the assembly of a 2- or 3-arm puller

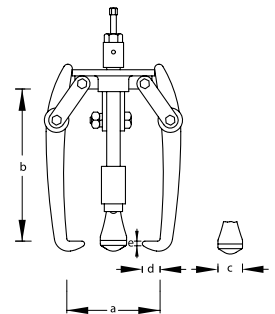





a <sub>max</sub>	b	max. t		 mm	optional 	c	d	e		Code	No.
300	300	12.0	G 1 x 360	36	1.06/HSP3	32	19	3.0	10.5	8007320	1.17/1
450	420	12.0	G 1 x 500	36	1.06/HSP3	32	22	3.0	12.7	8007400	1.17/2

# 1.17/HSP PULLER

## hydraulic, 3-arm pattern

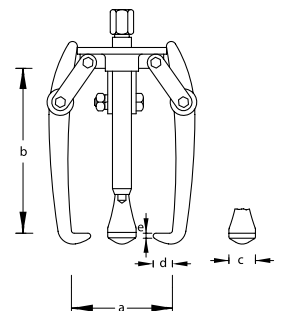
- > Very strong
- > Made for industrial applications and for use on heavy agricultural and construction machines
- > The legs grip automatically
- > With the hydraulic spindle, a controlled and safe pulling action is possible at all times
- > Also available with standard spindle - Model 1.17





a <sub>max</sub>	b	max. t	max. N-m		 mm	c	d	e		Code	No.
300	190	12.0	29	1.06/HSP3	41	32	19	3.0	11.4	8014290	1.17/1-HSP3
450	295	12.0	29	1.06/HSP3	41	32	22	3.0	12.6	8014370	1.17/2-HSP3

# 116 PULLING LEG

- > Very strong
- > Complete with clips and screws



	b	c	d	e		Code	No.
1.16/1 + 1.17/1	300	32	19	3	1.8	2303280	116/1-300
1.16/1-HSP3 + 1.17/1-HSP3							
1.16/2 + 1.17/2	420	32	22	3	2.2	2303299	116/2-420
1.16/2-HSP3 + 1.17/2-HSP3							

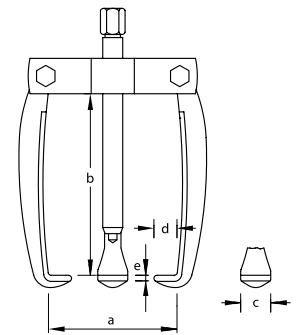






## 2-/3-arm External Pullers

### 1.18 PULLER

2-arm pattern

> The tried and tested range for economical bearing removal

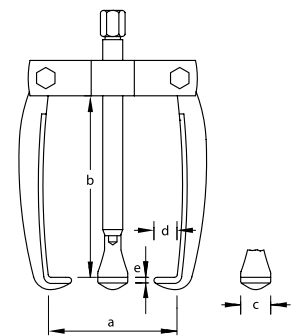






$a_{max}$	b	max. t		 mm	optional 	c	d	e		Code	No.
<b>110</b>	110	2.0	M 14x1,5 x 163	17	–	17	18	5.0	1.0	1464965	1.18/1
<b>160</b>	140	3.0	M 18x1,5 x 215	19	–	21	20	6.5	2.1	1464973	1.18/2
<b>200</b>	200	5.0	G 1/2 x 282	22	1.06/HSP1	22	22	7.5	3.4	1464981	1.18/3

### 1.19 PULLER

3-arm pattern

> The tried and tested range for economical bearing removal



$a_{max}$	b	max. t		 mm	optional 	c	d	e		Code	No.
<b>110</b>	110	2.0	M 14x1,5 x 163	17	–	17	18	5.0	1.4	1465007	1.19/1
<b>160</b>	140	3.0	M 18x1,5 x 215	19	–	21	20	6.5	2.7	1465015	1.19/2
<b>200</b>	200	5.0	G 1/2 x 282	22	1.06/HSP1	22	22	7.5	4.5	1465023	1.19/3

1.35/1A

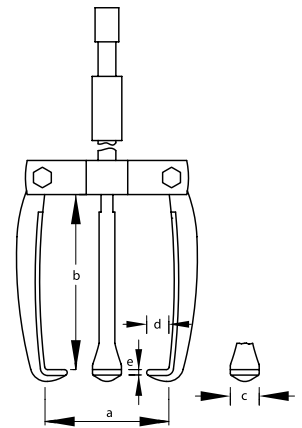
>483





## 1.19/SH PULLER WITH SLIDING HAMMER

- > The tried and tested range for economical bearing removal, spindle not supplied
- > Impact weight: 700 g

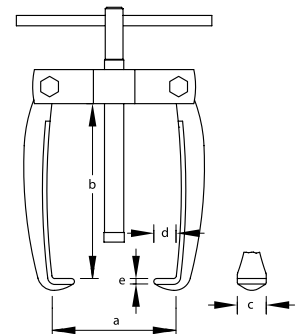


a <sub>max</sub>	b	max. t	c	d	e		Code	No.
70	70	1.0	12	10	3.0	1.2	2178001	1.19/01-SH1A

## 1.18 FAN PULLER

2-arm pattern

- > Removes bearings swiftly and cleanly
- > Can also be used with sliding hammer no. 1.35/1A

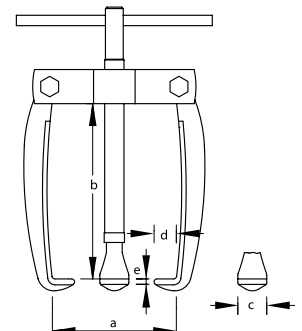


a <sub>max</sub>	b	max. t		c	d	e		Code	No.
65	50	1.0	M 10 x 115	12	10	3.0	0.230	1656996	1.18/02
70	70	1.0	M 10 x 115	12	10	3.0	0.240	1657089	1.18/01
80	80	1.0	M 10 x 115	12	10	3.0	0.240	1656937	1.18/0

## 1.19 FAN PULLER

3-arm pattern

- > Removes bearings swiftly and cleanly
- > Can also be used with sliding hammer no. 1.35/1A



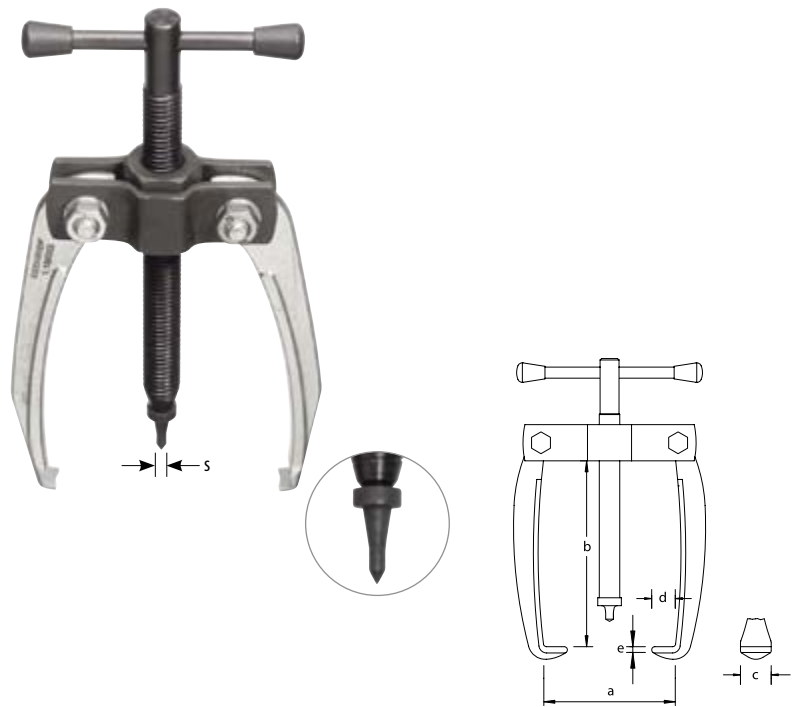
a <sub>max</sub>	b	max. t		c	d	e		Code	No.
65	50	1.0	M 10 x 115	12	10	3.0	0.280	1657054	1.19/02
70	70	1.0	M 10 x 115	12	10	3.0	0.300	1657046	1.19/01
80	80	1.0	M 10 x 115	12	10	3.0	0.300	1657011	1.19/0





# 1.18/XS PULLER

with extra slim legs

- > Very slim forged legs
- > Ideal for use in hard-to-reach places, e.g. work on electric motors

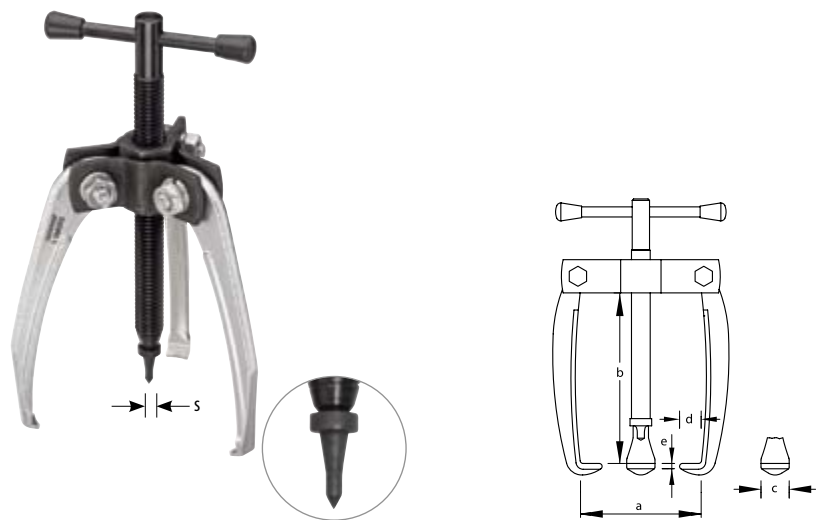




a <sub>max</sub>	b	max. t		c	d	e	s		Code	No.
50	70	0.5	M 10x1,5 x 100	8	3	2	2,9	0.240	2018594	1.18/OXS

# 1.19/XS PULLER

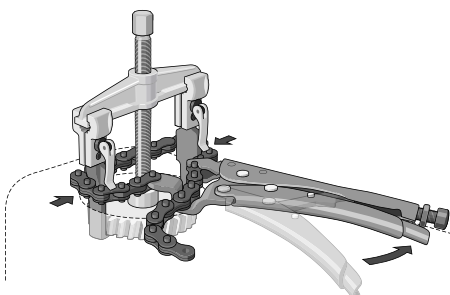
with extra slim legs

- > Very slim forged legs
- > Ideal for use in hard-to-reach places, e.g. work on electric motors



a <sub>max</sub>	b	max. t		c	d	e	s		Code	No.
50	70	0.8	M 10x1,5 x 100	8	3	2	2,9	0.300	2018608	1.19/OXS

# CLAMPING YOKE



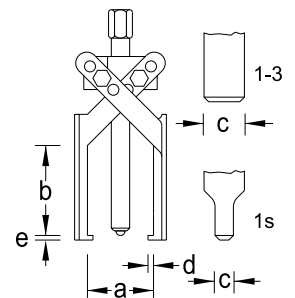
- > The clamping yokes stop the legs bending outwards under load and thus possibly slipping.
- > This can also be attained using the new GEDORE 136 K clamping chain - even with a very restricted contact surface of the legs extracting can still be done.




## Pullers with clamping yoke

### 1.23 PULLER

with slim legs

- > For removing bearings in confined spaces
- > The legs grip automatically
- > No. 1.23/S: particularly slim legs

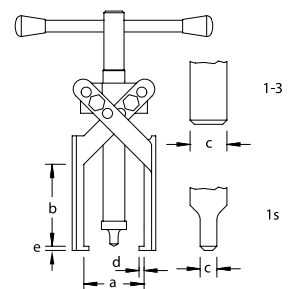


a <sub>max</sub>	b	max. t			c	d	e		Code	No.
80	85	1.5	M 10 x 105	12	11	4	2.5	0.4	8084580	1.23/1S
80	85	2.0	M 10 x 105	12	23	4	2.5	0.4	8084310	1.23/1
120	120	3.5	M 14x1,5 x 130	17	31	5	3.5	0.8	8084660	1.23/2
120	150	3.5	M 14x1,5 x 205	17	31	5	3.5	1.1	8084740	1.23/3

### 1.23/XS PULLER

with extra slim legs

- > Very slim forged legs
- > Ideal for use in hard-to-reach places, e.g. work on electric motors
- > The legs grip automatically



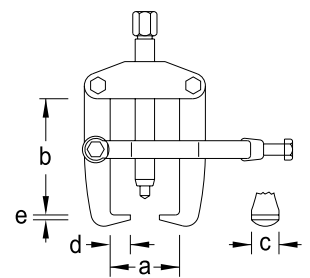
a <sub>max</sub>	b	max. t		c	d	e	s		Code	No.
80	85	0.7	M 10x1,5 x 100	9	3.5	2	2,9	0.330	2018578	1.23/1XS







# 1.20 PULLER

with clamping yoke

- > These pullers are mainly employed for removing car and truck steering arms
- > The clamping yoke applies firm pressure behind the part to be moved and keeps the puller firmly in the correct position

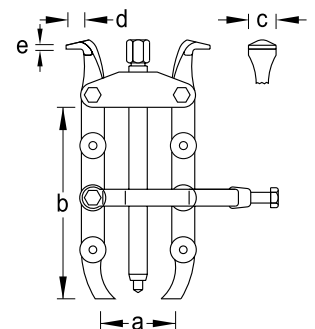






a <sub>max</sub>	b	max. t			optional 	c	d	e		Code	No.
90	85	5.0	M 18x1,5 x 130	19	–	22	12	3.0	1.6	8008050	1.20/1
90	100	5.0	M 18x1,5 x 130	19	–	24	15	3.0	1.7	8008130	1.20/2
150	140	7.5	G 1/2 x 175	22	1.06/HSP1	30	18	3.5	3.4	8008210	1.20/3

# 1.22 PULLER

with clamping yoke

- > Double-ended hooks
- > Particularly suitable for separating and removing flush-seated parts
- > Especially economical as it covers a range of different sizes




a <sub>max</sub>	b	max. t			optional 	c	d	e		Code	No.
110	170	5.0	M 18x1,5 x 200	19	–	25	14	3.5	2.2	8009020	1.22/1
160	260	7.5	G 1/2 x 350	22	1.06/HSP1	25	14	3.5	4.4	8009100	1.22/2
160	325	7.5	G 1/2 x 350	22	1.06/HSP1	25	14	3.5	4.6	8009290	1.22/3

## Hydraulic implements

### 1.50 HYDRAULIC IMPLEMENTS

- > Suitable for pressing, straightening, lifting, bending, and pulling
- > Consisting of hydraulic hand pump no. 1.50/1 and hydraulic cylinder no. 1.51
- > Simple oil filler - can be directly used




consisting of:	max. bar		Code	No.
Hydraulic hand pump 1.50/1 Hydraulic cylinder 1.51/10	700	14.0	8110410	1.50/10
Hydraulic hand pump 1.50/1 Hydraulic cylinder 1.51/11	700	15.0	8110680	1.50/11

### 1.50/1 HYDRAULIC HAND PUMP

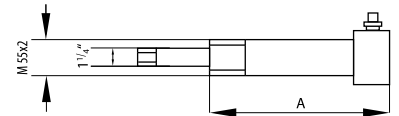
- > Complete with 1.50 m high-pressure hose
- > To fit hydraulic cylinder 1.51
- > Incl. fitting and dust cover
- > Simple oil filler - can be directly used



for hydraulic cylinder	max. bar		Code	No.
1.51/10 1.51/11	700	8.3	8022710	1.50/1

# 1.51 HYDRAULIC CYLINDER

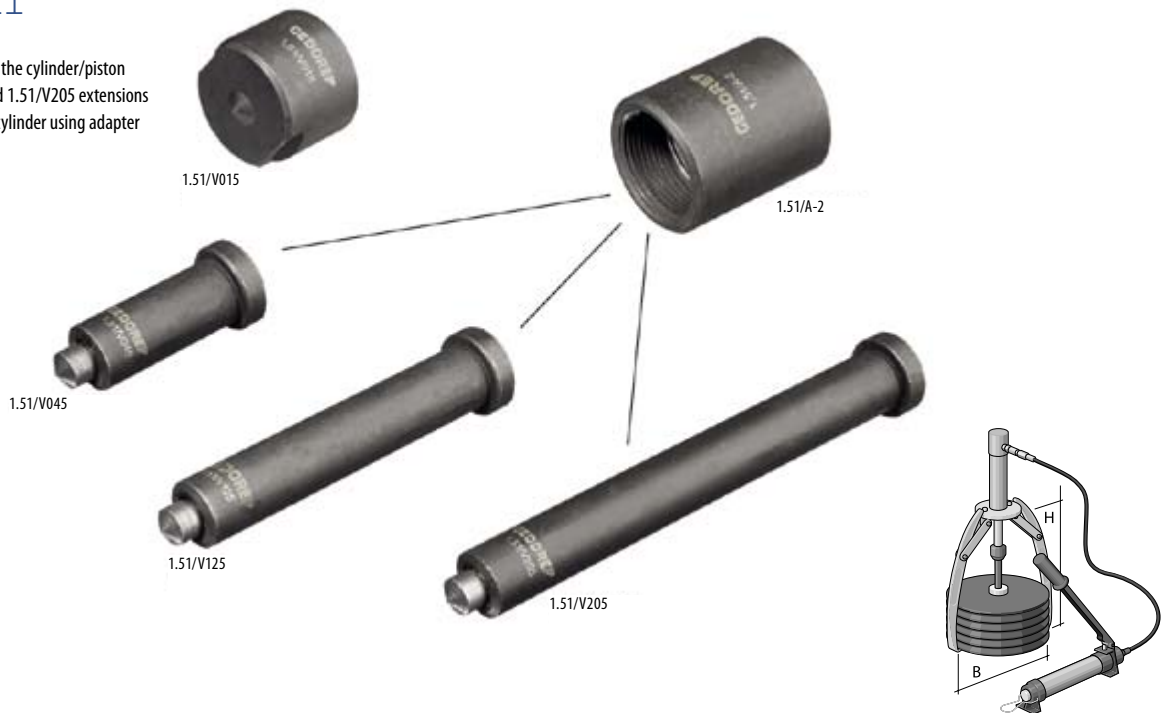
- > Connection of the coupling 3/8"
- > Incl. fitting and dust cover
- > Simple oil filler - can be directly used



Stroke height	max. t	max. bar	A	kg	Code	No.
<b>150</b>	10	700	275	5.0	8023440	1.51/10
<b>230</b>	10	700	355	6.0	8110760	1.51/11

# 1.51/V EXTENSION FOR 1.51/10 + 11

- > 1.51/V015 are used to protect the cylinder/piston
- > The 1.51/V045, 1.51/V125 and 1.51/V205 extensions are attached to the hydraulic cylinder using adapter 1.51/A-2



Description	kg	Code	No.
<b>Extension and cylinder protection, 15 mm</b>	0.4	2065045	1.51/V015
<b>Extension for hydraulic cylinder, 45 mm</b>	0.5	2065053	1.51/V045
<b>Extension for hydraulic cylinder, 125 mm</b>	0.9	2065061	1.51/V125
<b>Extension for hydraulic cylinder, 205 mm</b>	1.3	2065088	1.51/V205
<b>Adaptor for 1.51/V045 - V205</b>	0.5	2065096	1.51/A-2

# HYDRAULIC IMPLEMENTS

- > As the puller cannot be rotated during extraction, pulling with the assistance of hydraulic aids - hydraulic implements, hydraulic spindle or hydraulic press - saves both on time and the effort needed.
- > The hydraulic implements can also be used with the 1.07/4 and 1.07/4A pullers.

5.10

>455

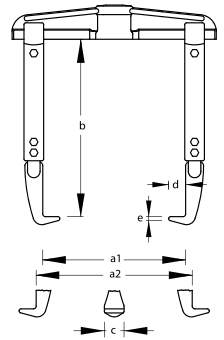



Remember the safety cover!

## 1.06/H PULLER

for hydraulic implement 1.50

- > For the fast and damage-free removal of pulleys, wheels, ball bearings, etc.
- > Robust pattern, designed for rigidity and heavy duty use
- > By reversing the legs, this tool can be used as an internal or external puller
- > The reach may be increased both by using pulling legs in special lengths, and by using extensions

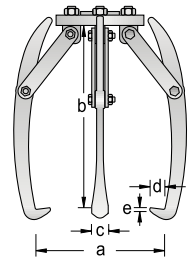



$a_1$	$a_{2min}$	$a_{2max}$	b	max. t	c	d	e		Code	No.
520	185	600	200	10.0	36	28	6.5	11.0	8112620	1.06/40

## 1.17/H PULLER

for hydraulic implement 1.50

- > Heavy-duty pattern for the removal of gear wheels, spoked wheels, pulleys, etc
- > The legs grip automatically
- > For the assembly of a 2- or 3-arm puller

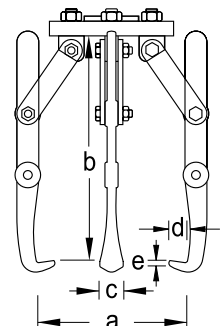



$a_{max}$	b	max. t	c	d	e		Code	No.
300	300	12	36	19	3.5	9.1	8007590	1.17/10
425	425	12	36	22	3.5	12.4	8109670	1.17/20

## 1.15/H PULLER

for hydraulic implement 1.50

- > Heavy-duty pattern for the removal of gear wheels, spoked wheels, pulleys, etc.
- > The legs grip automatically
- > The adjustable reach means that this puller is very versatile
- > For the assembly of a 2- or 3-arm puller



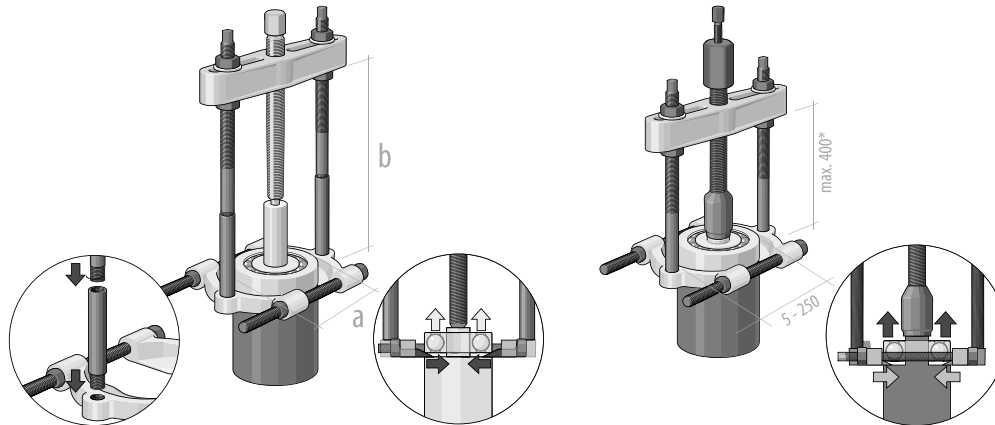
$a_{max}$	b	max. t	c	d	e		Code	No.
250	260	12	32	18	3.5	9.0	8006860	1.15/30
280	390	12	32	20	3.5	9.2	8109590	1.15/40



## Separators

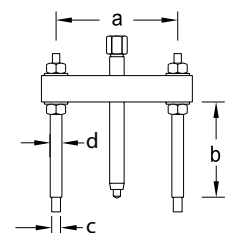
# SEPARATOR PULLERS 1.38 AND 1.40





- > GEDORE separating blades are particularly suited for removing taper roller and ball bearings, inner bearing races and other tightly-seated or thin-walled parts.
- > To remove tightly-seated parts, the sharp edges of the separator blades are pressed behind the part to be removed which is then withdrawn using the correct 1.38 separator puller.
- > To avoid damage to delicate parts, the flat surfaces of the separator blades are used. This produces a large contact surface that prevents tilting.
- > The clamping reach can be enlarged with the aid of the 1.38/AV - FV tension bolt extensions.



## 1.38 SEPARATOR PULLER

- > These separator pullers are used together with the bearing separators 1.40
- > The tension bolts are screwed into the threaded holes in the bearing separators



a	b	for separator		 mm	optional 	C / D		Code	No.
<b>40-120</b>	125	1.40/0	M 14 x 120	17	–	M10 / M12x1,5	1.0	8017550	1.38/0
<b>60-165</b>	180	1.40/1	M 18 x 170	19	–	M10 / M14x1,5	1.1	8017630	1.38/1
<b>70-215</b>	195	1.40/2	G 1/2 x 210	22	1.06/HSP1	M14x1,5 / M16x1,5	3.4	8017710	1.38/2
<b>90-300</b>	205	1.40/3	G 3/4 x 280	27	1.06/HSP2	M18x1,5 / M20x1,5	6.5	8017980	1.38/3
<b>125-380</b>	275	1.40/4	G 1 x 310	36	1.06/HSP3	M22x1,5 / M24x1,5	11.6	8018010	1.38/4
<b>140-440</b>	320	1.40/5	G 1 x 360	36	1.06/HSP3	M24x1,5 / M26x1,5	16.6	8018280	1.38/5



## 1.38/V EXTENSION ROD

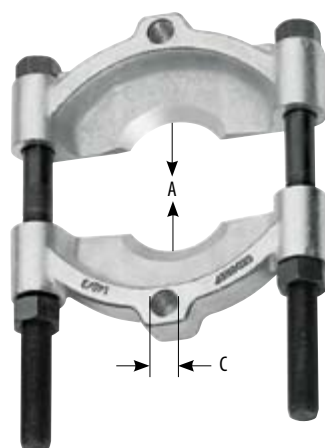
› Extension rods for separator pullers 1.38



for separator	C	l mm	kg	Code	No.
<b>1.38/0 1.38/1</b>	M10	100	0.3	8018440	1.38/AV
<b>1.38/2</b>	M14x1,5	100	0.3	8018520	1.38/CV
<b>1.38/3</b>	M18x1,5	100	0.6	8018600	1.38/DV
<b>1.38/4</b>	M22x1,5	200	2.1	8018790	1.38/EV
<b>1.38/5</b>	M24x1,5	200	2.7	8018870	1.38/FV

## 1.40 SEPARATOR

- › For removing taper roller and ball bearings, inner bearing races, and other tightly-seated or thin-walled parts
- › Operation: To remove tightly-seated parts, the sharp edges of the separator blades are pressed behind the part and it is then withdrawn using the correct puller no. 1.38. To avoid damage to delicate parts, the flat surfaces of the separator blades are used. This produces a large support surface that prevents deformation.

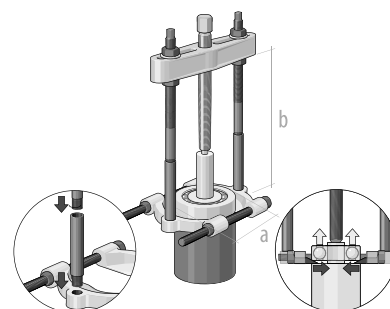


A mm	for puller	C	kg	Code	No.
<b>5-60</b>	1.38/0	M10	0.5	8019680	1.40/0
<b>12-75</b>	1.38/1	M10	0.9	8019760	1.40/1
<b>22-115</b>	1.38/2	M14x1,5	2.4	8019840	1.40/2
<b>30-155</b>	1.38/3	M18x1,5	4.7	8019920	1.40/3
<b>30-200</b>	1.38/4	M22x1,5	8.9	8020180	1.40/4
<b>30-250</b>	1.38/5	M24x1,5	15.3	8020260	1.40/5



# 1.41 SEPARATOR AND PULLER SET

- > Set comprising separator, puller, and extension rods
- > In sheet metal case



a	b	Contents		Code	No.
5-60	225	1.38/0 1.38/AV 1.40/0	2.8	8109750	1.41/0
12-75	280	1.38/1 1.38/AV 1.40/1	5.2	8109830	1.41/1
22-115	295	1.38/2 1.38/CV 1.40/2	9.0	8109910	1.41/2
30-155	305	1.38/3 1.38/DV 1.40/3	16.0	8110090	1.41/3
30-200	475	1.38/4 1.38/EV 1.40/4	28.6	8110170	1.41/4

# 1100-1.41/2A SEPARATOR AND PULLER SET

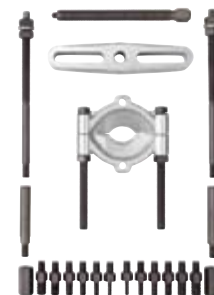
**NEW**

in L-BOXX® 136

- > For clamping depths from Ø 22 to 115 mm and clamping reach up to 295 mm
- > Incl. threaded inserts for internal threads M8-M18
- > For loosening and pulling tightly-seated parts e.g. taper roller bearings and inner bearing races
- > The clamping reach can be extended with extension rods 1.38/AV-FV from 195 to 295 mm
- > 1100 CT2-1.41/2A to retrofit existing L-BOXX®es 136
- > With Check-Tool insert for quick check of completeness
- > As tools are fully sunk in the foam, the equipped insert can be stacked
- > Insert for use in drawers with min. dimensions 400 x 310 x 60 mm



1100-1.41/2A



1100 CT2-1.41/2A

	Code	No.
11.5	2927284	1100-1.41/2A
7.9	2927292	1100 CT2-1.41/2A

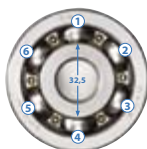
Description		Code	No.
Foam insert 2/2 L-BOXX 136, empty	0.200	2927306	EI-1100 CT2-1.41/2A

## Ball bearing extractors

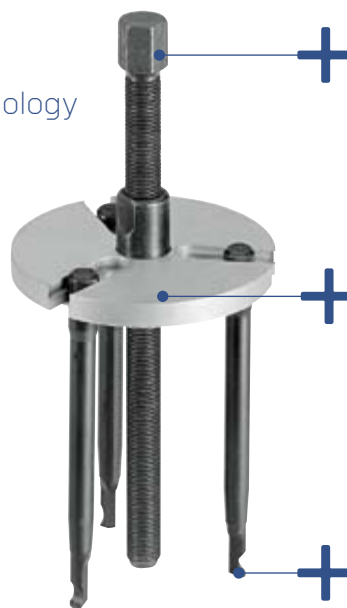
### 1.92 EXTRACTOR

Better solutions through innovative and precise technology

- > The solution for ball bearings, which are mounted on a shaft or in a housing, and thus cannot be extracted neither from the inside nor from the outside.
- > Extracting without drilling open the ball bearing! Therefore no risk of any chippings in machines.
- > In view of the different ball bearing constructions dependent on manufacturer, the table presented can only serve as an orientation guide in selecting the legs and heads.
- > The puller legs suggested in the tables are not mandatory. They only represent a recommendation based on the specifications of reputable ball bearing manufacturers.
- > **The "inner functioning" (cage, diameters of the rolling elements and their number) of a bearing is not standardized.**
- > If a hook does not fit, then choose the next larger / smaller hook.
- > Head sectioning is based on the number of rolling elements.
- > In practise this means that whilst a puller leg fits into bearing 6403 of manufacturer X, it does not with the same 6403 bearing of manufacturer Y. This is because manufacturer Y installs one ball more than manufacturer X.



left 7 balls / right 6 balls



The innovative design with its maximum level of functionality in connection with simple handling provides a PLUS in effectivity and productivity.

The top plate is easy to use. The legs are fixed in the slot.

The self-locking system guarantees 100% force transmission and the maximum safety during withdrawal

#### FIELDS OF APPLICATION

Suitable for more than 40 standard ball bearings up to 6311



### 1.92 BALL BEARING EXTRACTOR PLUS

- > Using the ball bearing extractor, the removal of shaft-mounted ball bearings in a housing is now possible without any problems
- > Due to its great degree of functionality combined with the simplified handling, this design makes a PLUS in effectiveness and productivity possible
- > This tool is easy to use: The legs are fixed in the slot
- > The self-locking arrangement means that the force applied is 100 % utilised
- > Secure at all times against slipping off - and a straight pulling force for precise working
- > Suitable for more than 40 standard ball bearings up to 6311
- > 1.92/1 for bearings: 6000-6010, 6200-6205, 6300-6304
- > 1.92/2 for bearings: 6011-6012, 6206-6212, 6305-6311, 6403-6407
- > 1.92/12 for bearings: 6000-6012, 6200-6212, 6300-6311, 6403-6407

- \* with supporting ring 6309
- \*\* with supporting ring 6310
- \*\*\* with supporting ring 6311





Bearing	Leg	Head size		Code	No.
6000	1.92/10	192/1-7	2.3	1553534	1.92/1
6001	1.92/10	192/1-4			
6002	1.92/10	192/1-3			
6003	1.92/10	192/1-4			
6004	1.92/30	192/1-3			
6005	1.92/30	192/1-3			
6006	1.92/30	192/1-3			
6007	1.92/40	192/1-3			
6008	1.92/40	192/1-3			
6009	1.92/40	192/1-3			
6010	1.92/40	192/1-3			
6200	1.92/10	192/1-4			
6201	1.92/20	192/1-7			
6202	1.92/20	192/1-4			
6203	1.92/30	192/1-4			
6204	1.92/40	192/1-4			
6205	1.92/40	192/1-3			
6300	1.92/30	192/1-3			
6301	1.92/40	192/1-3			
6302	1.92/40	192/1-7			
6303	1.92/40	192/1-7			
6304	1.92/40	192/1-7			

Bearing	Leg	Head size		Code	No.	
6011	1.92/50	192/2-3	5.2	1553542	1.92/2	
6012	1.92/50	192/2-3				
6206	1.92/50	192/2-3				
6207	1.92/50	192/2-3				
6208	1.92/60	192/2-3				
6209	1.92/60	192/2-3				
6210	1.92/60	192/2-3				
6211	1.92/60	192/2-3				
6212	1.92/70	192/2-3				
6305	1.92/60	192/2-7				
6306	1.92/60	192/2-4				
6307	1.92/60	192/2-4				
6308	1.92/70	192/2-4				
6309	1.92/70	192/2-4				
6310**	1.92/70	192/2-4				
6311***	1.92/70	192/2-4				
6403	1.92/60	192/2-3				
6404	1.92/70	192/2-3				
6405	1.92/70	192/2-7				
6406	1.92/70	192/2-7				
6407*	1.92/60	192/2-7				
<b>Contents of set 1.92/1 and 1.92/2</b>				7.6	1553550	1.92/12

# 1.92 PARTS

- > Pulling legs No. 1.92/10 to 1.92/70 = set of 4 pieces
- > For spindle 1.1406200: please also order adaptor 192/A-2

Description		Code	No.
<b>Leg 120 mm</b>	0.170	1583263	1.92/10
<b>Leg 125 mm</b>	0.180	1583271	1.92/20
<b>Leg 130 mm</b>	0.190	1583298	1.92/30
<b>Leg 135 mm</b>	0.200	1583301	1.92/40
<b>Leg 140 mm</b>	0.310	1583328	1.92/50
<b>Leg 145 mm</b>	0.340	1583336	1.92/60
<b>Leg 150 mm</b>	0.470	1583344	1.92/70
<b>Head small 3 slots</b>	0.170	1574485	192/1-3

Description		Code	No.
<b>Head small 4 slots</b>	0.170	1574493	192/1-4
<b>Head small 3/7 slots</b>	0.170	1574507	192/1-7
<b>Head big 3 slots</b>	0.830	1574515	192/2-3
<b>Head big 4 slots</b>	0.800	1574523	192/2-4
<b>Head big 3/7 slots</b>	0.830	1574531	192/2-7
<b>Adaptor for head big 1.92/2</b>	0.048	1574566	192/A-2
<b>Spindle small for 1.92/1</b>	0.090	1576208	1.1006170
<b>Spindle big for 1.92/2</b>	0.220	1576224	1.1406200

# 1101-1.29/1K BALL BEARING EXTRACTOR SET

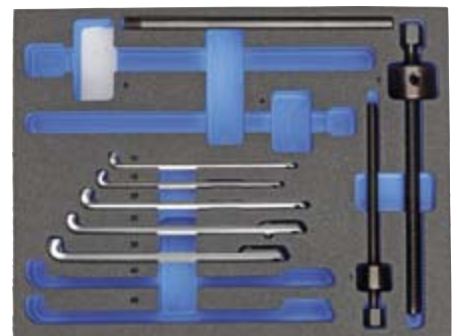
**NEW**

in i-BOXX® 72

- > Ball bearing extractor set for more than 30 ball bearings
- > For removing ball bearings that are both on a shaft and in a housing
- > Non-destructive removal of deep-groove ball bearings without dismantling the shaft; no necessity to drill open the bearing cage (no chippings)
- > With Check-Tool insert for quick check of completeness
- > Insert for use in drawers with min. dimensions 340 x 260 x 60 mm
- > In GEDORE i-BOXX® 72 No. 1101 L
- > Dimensions: W 367 x D 316 x H 72 mm



1101-1.29/1K



1101 CT-1.29/1K

for ball bearing No.	Contents		Code	No.
<b>6000 6001 6002 6003 6004 6005 6006 6007 6008 6009 6010 6011 6012 6200 6201 6202 6203 6204 6205 6206 6207 6300 6301 6302 6303 6304 6305 6306 6307 6403 6404</b>	2 Heads with spindle no. 1.29/1 + 1.29/3 5 Heads with spindle no. 1.29/10 - 1.29/35 1 Handle no. 1.29/0	2.610	2963485	1101-1.29/1K
	2 Heads with spindle no. 1.29/1 + 1.29/3 5 Heads with spindle no. 1.29/10 - 1.29/35 1 Handle no. 1.29/0	1.750	2964414	1101 CT-1.29/1K

Description		Code	No.
<b>Foam insert i-BOXX 72, empty</b>	0.110	2964449	EI-1101 CT-1.29/3K

**NEW**

# 1101-1.29/3K

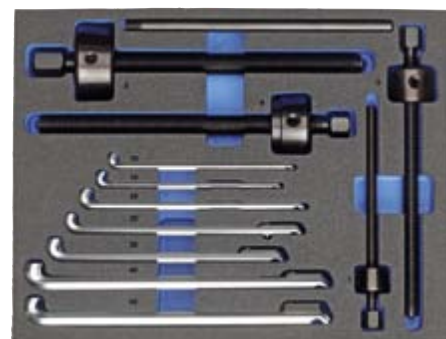
## BALL BEARING EXTRACTOR SET

in i-BOXX® 72


- > Ball bearing extractor set for more than 40 ball bearings
- > For removing ball bearings that are both on a shaft and in a housing
- > Non-destructive removal of deep-groove ball bearings without dismantling the shaft; no necessity to drill open the bearing cage (no chippings)
- > With Check-Tool insert for quick check of completeness
- > Insert for use in drawers with min. dimensions 340 x 260 x 60 mm
- > In GEDORE i-BOXX® 72 No. 1101 L
- > Dimensions: W 367 x D 316 x H 72 mm




1101-1.29/3K



1101 CT-1.29/3K

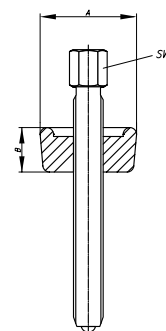
for ball bearing No.	Contents	 kg	Code	No.
6000 6001 6002 6003 6004 6005 6006 6007 6008 6009 6010 6011 6012 6200 6201 6202 6203 6204 6205 6206 6207 6208 6209 6210 6211 6212 6213 6300 6301 6302 6303 6304 6305 6306 6307 6308 6309 6310 6311 6403 6404 6405 6406 6407	4 Heads with spindle no. 1.29/1 - 1.29/5 7 Heads with spindle no. 1.29/10 - 1.29/45 1 Handle no. 1.29/0	5.780	2964392	1101-1.29/3K
	4 Heads with spindle no. 1.29/1 - 1.29/5 7 Heads with spindle no. 1.29/10 - 1.29/45 1 Handle no. 1.29/0	4.920	2964430	1101 CT-1.29/3K




Description	 kg	Code	No.
Foam insert i-BOXX 72, empty	0.110	2964449	EI-1101 CT-1.29/3K

## 1.29

### BALL BEARING EXTRACTOR

- > For removing ball bearings that are both on a shaft and in a housing
- > The legs selected using the table are inserted into the ball race, evenly distributed in the outer ring according to the number of balls
- > The support rings supplied for the ball bearings to be removed are placed on the bearings' inner races
- > The head with spindle is then placed on the centering depression of the shaft and the spindle put under tension with the legs
- > Delivery contains head and spindle. Please order suitable legs separately!



for leg	A	B		 mm	 kg	Code	No.
1.29/10-35	28	20	M 10 x 160	14	0.2	8011000	1.29/1
1.29/25-40	40	28	M 14 x 210	17	0.6	8011270	1.29/3
1.29/35-45	50	30	M 18 x 230	19	0.9	8011350	1.29/4
1.29/45	65	30	M 20 x 235	22	1.9	8011430	1.29/5



# 1.29 SET OF PULLING LEGS

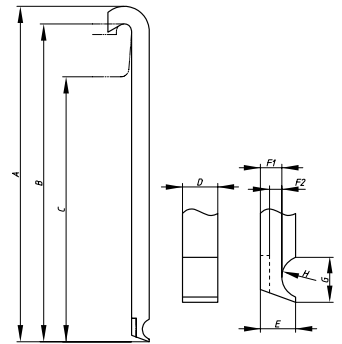
4 pieces



1.29/10 - 1.29/25



1.29/30 - 1.29/45



No.	Code	for ball bearing No.	for extractor	A	B	C	D	E	F1	F2	G	H	⚖️
<b>1.29/10</b>	8011510	6000 6001 6002 6003 6200	1.29/1	145	141	121	4.5	4	2,5	2,5	7.7	R4	0.062
<b>1.29/15</b>	8011780	6004 6005 6006 6201 6202 6300	1.29/1	145	140	120	5.7	5	3,0	3,0	8.8	R4	0.098
<b>1.29/25</b>	8011940	6204 6205 6301 6302	1.29/1	176	170	150	6.7	6	3,7	3,7	9.8	R4	0.172
		6007 6008 6300 6301 6302	1.29/3			142							
<b>1.29/30</b>	8012080	6303 6304	1.29/1	186	179	159	7.9	7	4,4-6,1	4,4	10.3	R5	0.256
		6009 6010 6011 6012 6204 6205	1.29/3			151							
		6206 6303 6304	1.29/4			149							
		6009 6010											
<b>1.29/35</b>	8012160	6305	1.29/1	186	178	158	9.0	8	4,8-7,3	4,8	11.8	R5	0.342
		6207 6305 6403	1.29/3			150							
		6011	1.29/4			148							
		6012	1.29/5			148							
<b>1.29/40</b>	8012240	6306 6307 6404	1.29/3	237	227	199	11.3	10	6,4-8,9	6,4	13.1	R6	0.646
		6208 6209 6210 6307	1.29/4			197							
<b>1.29/45</b>	8110250	6211 6308 6309 6405 6406 6407	1.29/4	237	227	197	11.3	10	6,1-11,6	6,1	14.7	R6	0.682
		6211 6212 6213 6309 6310 6311	1.29/5			197							

5.10

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Remember the safety cover!


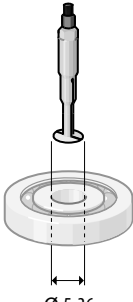
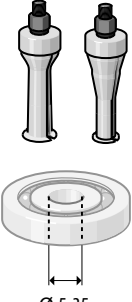
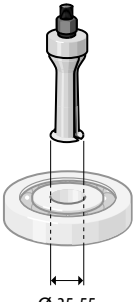
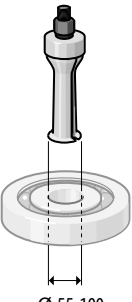
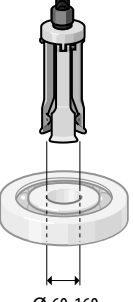

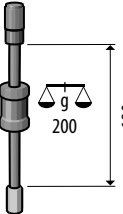




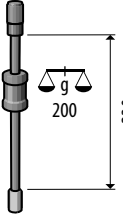




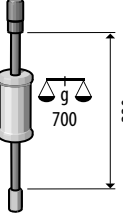





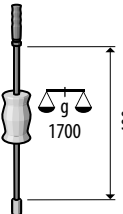






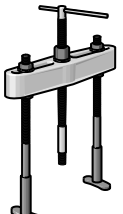
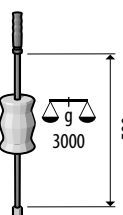



1101-1.29/3K

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# INTERNAL EXTRACTOR OVERVIEW

with matching counter-stays and sliding hammers

	No. 1.34/1-4	No. 1.30/0-5 No. 1.30/2N-3N	No. 1.30/6-7	No. 1.30/8-9	No. 1.30/10 No. 1.30/10N	
 ↓	 Ø 5-36	 Ø 5-35	 Ø 35-55	 Ø 55-100	 Ø 60-160	 ↓
No. 1.35/0  180 g 200	 					 No. 1.36/1
No. 1.35/1  230 g 200						 No. 1.36/2
No. 1.35/1A  230 g 700			 			 No. 1.36/3
No. 1.35/2  400 g 1700			 	 		 No. 1.36/4
No. 1.35/3  500 g 3000					 + Adaptor 135/325-1 (Code: 1123750)	



## Internal extractors

### INTERNAL EXTRACTOR OVERVIEW

In a class of its own due to the precision manufacturing technology



+

The simple handling method guarantees the fast and uncomplicated withdrawal of ball bearings.

+

Because of their titanium nitrided coating the surfaces have increased hardness and are provided with better protection.

+

Force transmission is increased and improved by precise manufacturing accuracy.

+

The expansion ranges have been increased, thus fewer pullers are necessary for the same overall expansion range.

> with matching counter-stays and sliding hammers

Contents:

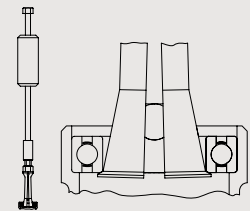
- > 1.34/10 - 5-piece internal extractor set for closely-fitting ball bearings
- > Attractive set arrangement
- > Can be used with sliding hammer or counter-support brace



### FEATURES MATERIAL

Titanium nitrided surface

- > Harder
- > More wear-resistant
- > Better surface protection
- > More heat-resistant
- > Fine design
- > Fast compensation of temperature differences



### 1.34/1 - 1.34/4 INTERNAL EXTRACTOR

- > For use with sliding hammer no. 1.35/0 or counter-support brace no. 1.36/1
- > Multiple wrench size (11 + 13 mm)

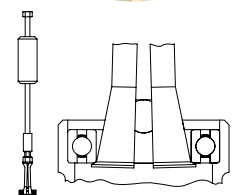


Ø mm	M	kg	Code	No.
5,0-8,5	M10	0.040	1638556	1.34/1
8,0-15,0	M10	0.060	1638564	1.34/2
15,0-25,0	M10	0.080	1638572	1.34/3
25,0-36,0	M10	0.100	1638580	1.34/4

### 1.34/10 INTERNAL EXTRACTOR SET

5 pieces

- > For tightly-fitting ball bearings, bearing races, bushings and shaft seals
- > Titanium-nitrided surface
- > Multiple wrench size (11 + 13 mm)
- > M10 connecting thread
- > Operation: The internal extractor is inserted into the bearing and the spindle screwed in. The sharp turned-out shoulders of the pulling shell jaws will press outwards behind the part to be extracted. The counter-support brace or the sliding hammer is then added.
- > In plastic case



Contents	kg	Code	No.
1 internal extractor 5-8.5 mm, No. 1.34/1	1.3	1638629	1.34/10
1 internal extractor 8-15 mm, No. 1.34/2			
1 internal extractor 15-24 mm, No. 1.34/3			
1 internal extractor 25-36 mm, No. 1.34/4			
1 sliding hammer, No. 1.35/0			



## 1.30/0-9 INTERNAL EXTRACTOR

- > For extremely-tightly-packed ball bearings, bearing races, bushings, and shaft seals Simmering®
- > Operation: The internal extractor is inserted into the bearing and the spindle screwed in. The sharp turned-out shoulders of the pulling shell jaws will press outwards behind the part to be extracted. The counter-support brace is then added. Both feet must be aligned parallel to the spindle to ensure rigidity.
- > The design can vary from the image
- > Can be used with either sliding hammer or counter-support brace



⌀ mm min - max	M	● mm	⌘	Sliding hammer	⚖ kg	Code	No.
5-8	M10	10	1.36/1	1.35/1A	0.120	8012750	1.30/0
8-12	M10	10	1.36/1	1.35/1A	0.120	8012830	1.30/1
12-15	M10	10	1.36/1	1.35/1A	0.130	8012910	1.30/2
15-19	M10	13	1.36/1	1.35/1A	0.170	8013130	1.30/3
19-25	M10	13	1.36/1	1.35/2	0.200	8013480	1.30/4
25-30	M10	13	1.36/1	1.35/2	0.300	8013560	1.30/4A
30-35	M10	13	1.36/1	1.35/2	0.400	8013640	1.30/5
35-45	M14x1,5	17	1.36/2	1.35/2	0.650	8013720	1.30/6
45-55	M14x1,5	17	1.36/2	1.35/3	0.800	8013800	1.30/7
55-70	M14x1,5	19	1.36/3	1.35/3	1.800	8013990	1.30/8
70-100	M14x1,5	27	1.36/3	1.35/3	3.050	8014020	1.30/9

## 1.30/N INTERNAL EXTRACTOR

with reinforced shoulder

- > Especially suitable for the safe and trouble-free extraction of needle roller bearings, ball bearings and brass sleeves from crankshafts
- > Note: The shoulder of the shell jaw must be applied behind the bearing



⌀ mm	M	● mm	⚖ kg	Code	No.
12-14	M10	10	0.170	8013050	1.30/2N
14-19	M10	13	0.170	8013210	1.30/3N

1.35

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1.36

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# 1.30/10 INTERNAL EXTRACTOR

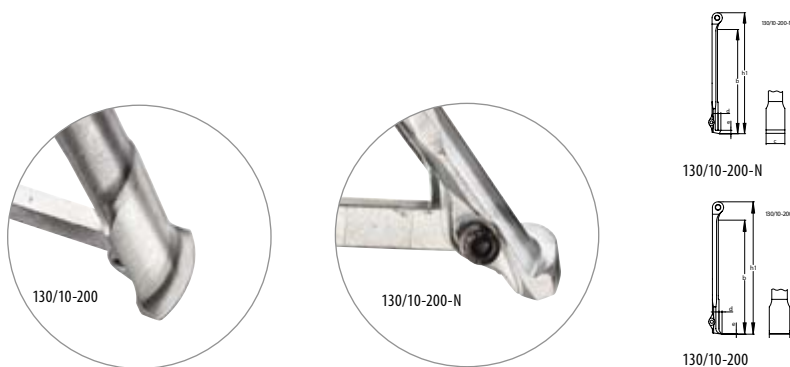
- > Suitable for removing large ball bearings and bearing outer races
- > Operation: The extraction jaws are spread by turning the nut. The newly-developed spreading system enables a simple, step-free and time-saving adjustment to the desired diameter to be made. The sharp-edged sections of the extraction jaws seat flush beneath when spread
- > Both internal extractors can be used with sliding hammer 1.35/3
- > Adapter 135/325-I M16x1,5 G 1/2" (Code 1123750) must also be ordered if sliding hammer 1.35/3 is used.



mm	M			mm	a	b	c	d	e	h1	h2	kg	Code	No.
60-160	G 1/2"	1.36/4	1.35/3	36	70	192	33	5	1	213	269	2.312	8014100	1.30/10
60-160	G 1/2"	1.36/4	1.35/3	36	70	187	33	5	6	213	269	2.312	2724804	1.30/10N

# 130/10 SPARE LEG FOR 1.30/10

- > One spare hook including screws
- > Suitable for 1.30/10 and 1.30/10N
- > Recommendation: In case of a broken hook, all three hooks should be replaced



	b	c	d	e	h1	kg	Code	No.
1.30/10 1.30/10N	192	33	5	1	213	0.360	2827565	130/10-200
1.30/10N 1.30/10	187	33	5	6	213	0.360	2827573	130/10-200-N

1.81

>492



## 1.35 SLIDING HAMMER

- > Suited for the removal of small ball bearings since there is often not enough room for counter-support braces
- > Can also be used with threaded inserts no. 1.81



for internal extractors	M	with adaptor	mm	↳ mm ‹	Sliding surface	Impact weight in g		Code	No.
1.34/1 - 1.34/4	M10	-	13	230	160	200	0.400	1958062	1.35/0
1.30/0 - 1.30/5	M10	-	13	270	200	200	0.450	8016070	1.35/1
1.34/1 - 1.34/4									
1.30/0 - 1.30/7	M10	M 14x1,5	13	270	200	700	0.950	1958070	1.35/1A
1.30/0 - 1.30/9	M 14x1,5	M10	24	520	340	1700	3.030	8039010	1.35/2
1.30/6 - 1.30/10	M 14x1,5	-	24	620	440	3000	4.200	1958089	1.35/3

## 1.36 COUNTER-SUPPORT BRACE

- > Operation: The counter-support brace is placed on the housing and the spindle screwed onto the spindle of the internal extractor. The toggle is held firmly, and the bearing extracted by tightening the nut.



for internal extractors	M	mm		Code	No.
1.30/0 - 1.30/5	M10	27	0.750	8016580	1.36/1
1.34/1 - 1.34/4					
1.30/6 - 1.30/7	M14x1,5	32	1.650	8016660	1.36/2
1.30/8 - 1.30/9	M14x1,5	32	3.000	8016740	1.36/3
1.30/10	G 1/2"	36	7.600	8016820	1.36/4



# 1.37/2 CYLINDER LINER PULLER

complete with support brace

- > Wet heavy-vehicle (e.g. Mercedes Benz, MAN) cylinder liners, automobile and stationary-engine liners, and other parts may be extracted using this puller
- > Operation: The spindle of the counter-support brace is screwed into the clamping nut of the puller, and the puller inserted into the liner. The counter-support brace is placed on to the cylinder block. Due to the newly-developed spreading system, when the spindle is turned, all three jaws spread quickly and without difficulty, until they are firmly seated beneath the edge of the liner. Then the nut of the counter-support brace is tightened.



mm	M	mm	kg	Code	No.
60-160	G 1/2"	36	6.8	8017200	1.37/2

# 1100-1.30 INTERNAL EXTRACTOR SET

in L-BOXX® 136, 7 pieces

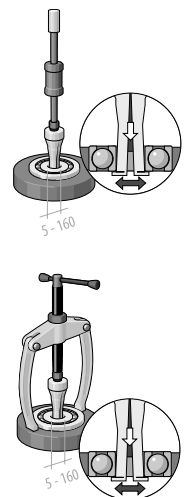
- > For internal Ø 12 - 35 mm
- > For extremely-tightly-packed ball bearings, bearing races, bushings, and shaft seals Simmering®
- > Sliding hammer 1.7 kg and counter-support brace
- > 1100 CT2-1.30 to retrofit existing L-BOXX®es 136
- > With Check-Tool insert for quick check of completeness
- > As tools are fully sunk in the foam, the equipped insert can be stacked
- > Insert for use in drawers with min. dimensions 400 x 310 x 60 mm



1100 CT2-1.30



1100-1.30



Contents	kg	Code	No.	Contents	kg	Code	No.
1.30/2	7.2	2836041	1100-1.30	1.30/2	5.0	2836025	1100 CT2-1.30
1.30/3				1.30/3			
1.30/4				1.30/4			
1.30/4A				1.30/4A			
1.30/5				1.30/5			
1.36/1				1.36/1			
1.35/2				1.35/2			
+ 1100 L							

Description	kg	Code	No.
Foam insert 2/2 L-BOXX 136, empty	0.200	2836033	EI-1100 CT2-1.30

## 1.31 INTERNAL EXTRACTOR SET


- > Sets comprise the most used extractor sizes for the removal of ball bearings, bearing races, bushings, shaft seals, etc.
- > In handy sheet metal case



1.31/0



1.31/2

Contents		Code	No.
<b>4 internal extractors 12-30 mm, No. 1.30/2 /3 /4 /4A</b> <b>1 counter-support brace No. 1.36/1</b>	2.6	8014530	1.31/0
<b>6 internal extractors 12-46 mm, No. 1.30/2 - /6</b> <b>2 counter-support braces No. 1.36/1 - /2</b>	6.4	8014610	1.31/1
<b>8 internal extractors 12-70 mm, No. 1.30/2 - /8</b> <b>2 counter-support braces No. 1.36/1 - /2</b>	9.2	8014880	1.31/2

## 1.32 SET OF INTERNAL AND EXTERNAL EXTRACTORS

- > The handy sheet metal case comprises internal extractors, support braces, pulling chucks, external extractors and stud extractors





1.32/1



1.32/2



1.32/2

Contents		Code	No.	Contents		Code	No.
<b>6 internal extractors 12-46 mm No. 1.30/2 - /6</b> <b>2 counter-support braces No. 1.36/1 - /2</b> <b>1 puller with extra slim legs No. 1.19/OXS</b> <b>1 battery-terminal puller No. 1.12/02</b> <b>1 puller, 2-arm pattern, No. 1.06/1</b>	10.4	8015260	1.32/1	<b>8 internal extractors 12-70 mm No. 1.30/2 - /8</b> <b>2 counter-support braces No. 1.36/1 - /2</b> <b>1 puller with extra slim legs No. 1.19/OXS</b> <b>1 battery-terminal puller No. 1.12/02</b> <b>2 pullers, 2-arm pattern, No. 1.06/1 1.06/2</b> <b>1 stud extractor No. 1.28/1</b>	19.0	8015340	1.32/2






## Wheel-hub Pullers


### 1.60 WHEEL-HUB PULLER

for cars and trucks

- > For wheel stud circles from 80 up to 225 mm
- > Easy to use
- > Upgradeable with hydraulic spindle no. 1.06/HSP2
- > No. 1.60/H = Spare leg



No. of legs		optional 		Code	No.
3	G 3/4 x 200	1.06/HSP2	4.3	8024840	1.60/3
4	G 3/4 x 200	1.06/HSP2	4.8	8110840	1.60/4
5	G 3/4 x 200	1.06/HSP2	5.3	8024920	1.60/5




Description		Code	No.
<b>Spare leg</b>	0.5	8110920	1.60/H


### 1.61 WHEEL-HUB PULLER

for cars and trucks

- > For wheel stud circles up to 250 mm
- > With wheel stud protection using rotating nut apertures that always lie flat to the hub for Ø 22 mm and suitable reduction bushing Ø 14 and 18 mm
- > Easy to use
- > Upgradeable with hydraulic spindle no. 1.06/HSP2
- > No. 1.61/H = Spare leg



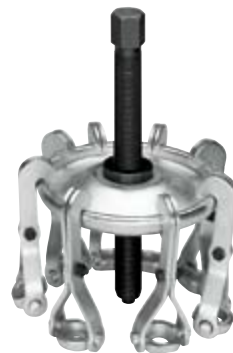
No. of legs		optional 		Code	No.
3	G 3/4 x 200	1.06/HSP2	4.6	8111060	1.61/3
4	G 3/4 x 200	1.06/HSP2	5.2	8111140	1.61/4
5	G 3/4 x 200	1.06/HSP2	5.8	8025300	1.61/5





Description		Code	No.
<b>Spare leg</b>	0.6	8111220	1.61/H


### 1.62 WHEEL-HUB PULLER

for trucks

- > For wheel stud circles from 150 up to 350 mm
- > With wheel stud protection using rotating nut apertures that always lie flat to the hub for Ø 22 mm and suitable reduction bushing Ø 14 and 18 mm
- > This tool may also be used with the hydraulic aid without requiring a reduction bushing
- > Upgradeable with hydraulic spindle no. 1.06/HSP3
- > No. 1.61/H = Spare leg



No. of legs			optional 		Code	No.
8	G 1 x 310	36	1.06/HSP3	12.6	8026030	1.62/8

Description		Code	No.
<b>Spare leg</b>	0.6	8111220	1.61/H

1.50

>469



1.06/HSP

>453



## Ball joint pullers

# BALL JOINT PULLER 1.73

Partner to rely on for your vehicle

- > Using the spindle, the ball joint puller is brought up to the required clamping height.
- > The set bolt applies that force needed to press out the ball joint. To withstand a load like this, the thread is rolled followed by hardening and tempering the spindle.
- > Body and lever of the 1.73 ball joint puller are drop-forged from 31CrV3 tempering steel and then hardened and tempered. In this way, the two major parts acquire the needed hardness and stability.
- > Article 1.73 comes in two sizes which together with their dimensions cover the most common pressure/force situations.
- > Other dimensions are covered by articles 1.72 and 1.74 - the compact 1.72 can be made use of, for instance, in extremely tight spots.

## SAFETY-RELEVANT




> Forces amounting to several tons in weight act on the puller during the extracting operation! Drop-forged components "announce" possible overloading by bending. This is due to the fibre

course of the material during forging permitting a certain flexibility of the components ahead of fracturing - an extremely "healthy" property, in fact !

## 1.72 BALL JOINT PULLER

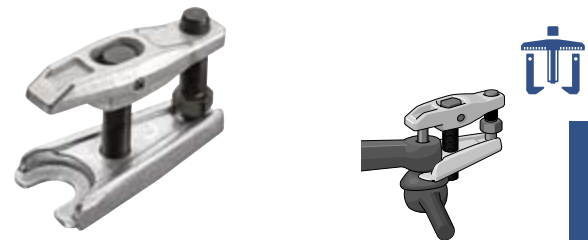
- > For the simple and damage-free removal of ball pins on track rods and push rods





a	b	c				Code	No.
18	35	40	M 14x1,5 x 50	17	0.300	8030300	1.72/1
23	45	50	M 14x1,5 x 50	17	0.400	8030490	1.72/2
27	56	60	M 18x1,5 x 80	19	0.700	8030570	1.72/3
37	78	75	G 1/2 x 110	22	1.650	8030650	1.72/4
40	80	80	G 1/2 x 140	22	2.160	2183323	1.72/4A
46	100	90	G 3/4 x 160	27	2.780	2183331	1.72/5A

## 1.73 UNIVERSAL BALL JOINT PULLER

- > For removing ball joints on cars and trucks



	Clamping height	Fork depth		Code	No.
23	65	24	0.730	8030810	1.73/1
32	85	28	2.520	8033240	1.73/3



## 1.74 UNIVERSAL BALL JOINT PULLER

- > For removing the ball joint journals on track rods, stabilizers, etc.
- > Simple operation due to slender lower part and 2-stage lever position



1.74/1

1.74/2

	Clamping height	Fork depth		Code	No.
20	12-50	35	1.370	8085200	1.74/1
20	50-80	35	1.740	8085390	1.74/2

## Oil filter hook

### 1.75/1 OIL FILTER HOOK

3-arm pattern

- > For removing firmly seated oil filters and granulate cartridges of compressed air dryers with right-handed thread, e.g. Mercedes Benz, MAN
- > With 3/8" female square drive and adaptor 17 mm external



mm	kg	Code	No.
60-120	0.650	8117420	1.75/1

### 1.76/1 CARTRIDGE SPANNER

3-arm pattern

- > Especially suitable for removing firmly seated granulate cartridges of compressed air dryers on HGV, with right-handed or left-handed thread
- > Great clamping reach (from 95 to 165 mm)
- > The GEDORE cartridge spanner is also usable as oil filter key
- > Zinc-plated
- > Drive 1/2"



mm	"	mm	kg	Code	No.
95-165	1/2	12.5	1.420	1523651	1.76/1

## Special Automotive Tools

### 1.64 DRIVE SHAFT PULLER

- > Suitable for drive shafts with 4 or 5 apertures
- > For wheel stud circles 100-155 mm with 6 mm screws
- > For tapped holes up to max. M14
- > **Operation:** The puller is attached to the drive shaft flange using the nuts of the wheel bolts. By striking the spindle head with the sliding hammer, the shaft may be removed easily and without damage.



∅	kg	Code	No.
100-155	4.5	8026700	1.64/1

### 1.65 PULLING FLANGE

heavy-duty pattern

- > For wheels and discs with tapped holes up to M16
- > The flange is fitted with slots for hole pitches of 180, 120, and 90 degrees
- > Additional holes may be drilled to render the flange suitable for other pitches and aperture diameters
- > A very sturdy model for heavy parts and the highest requirements






G	kg	Code	No.
1.1/4 x 270	16.0	8027000	1.65/1



## 1.66 PULLING FLANGE

- > For wheels and discs with tapped holes up to M10
- > The flange is fitted with slots for hole pitches of 180 and 120 degrees
- > No. 1.66/1 plate and spindle without hooks
- > No. 1.66/11 with one pair each of long (135 mm) and short (85 mm) hooks and a protective cap for the thread of the steering column






Clamping reach				Code	No.
35-80	M 12 x 110	14	0.7	8027510	1.66/1
35-80	M 12 x 110	14	1.1	8027780	1.66/11

## 1.67 STEERING-WHEEL PULLER

for cars

- > Contains 1 pair of short legs, 1 pair of long legs, and a protective cap for the thread of the steering column






Clamping reach	Leg length up to				Code	No.
35-90	135	M 14x1,5 x 150	17	0.9	8028240	1.67/1

## 1.68 STEERING-WHEEL PULLER

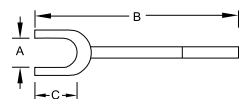
- > Featuring 1 pulling ring each with 100 mm and 150 mm diameter for 3-spoke and 4-spoke steering wheels
- > To protect the steering-wheels, the pulling rings are fitted with sliding rubber sleeves




Leg length				Code	No.
120	M 18 x 170	19	2.0	8028750	1.68/1

## 1.70 DISMANTLING AND ASSEMBLY FORK

- > For fast removal of track rod and push rod ends, steering arms, and other steering parts
- > Also suitable for removing shock absorbers and other separating and dismantling work
- > The forks are suitable for use in the most confined spaces
- > Hammer blows on the handle ends are used to separate the parts



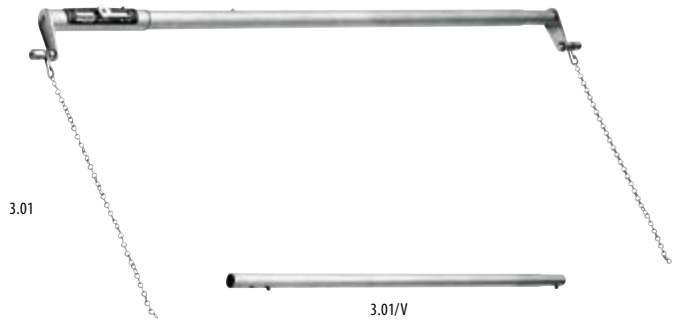
A	B	C		Code	No.
18	340	80	0.8	8029210	1.70/1
23	340	80	0.9	8029480	1.70/2
29	350	90	1.1	8029560	1.70/3
40	350	90	1.2	8029640	1.70/4
45	355	95	1.2	8085040	1.70/5



## Track alignment gauge

### 3.01 TRACK ALIGNMENT GAUGE

- › For inside measurement
- › With simple, telescopic length adjustment
- › Immediate track-difference readings may be taken from the millimetre scale
- › Extensive measurement range from 835 to 1500 mm, and with extensions up to 2100 mm
- › Track difference measurable from 0-35 mm
- › Notes on Use: The vehicle to be tested must be standing on level ground. The front wheels must be set for running straight ahead and have the same tyre pressure. The play in the steering linkage must be removed by pressing the front wheels apart. The track alignment gauge must be set roughly at the axle centre-line between the front tyres in such a manner that the two chain ends contact the ground. The scale is set a "0". The car is allowed to roll forward approx. one half turn of the wheel, until the chain ends again contact the ground. The track difference may then be read off on the scale.

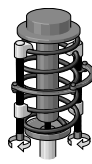


Description	Measurement range mm		Code	No.
<b>Track alignment gauge 835-1500 mm</b>	835-1.500	1.900	8033080	3.01
<b>Extension for track alignment gauge 1500-2100 mm</b>	1.500-2.100	0.570	8033160	3.01/V

## Spring compressor

### 1.78/S SAFETY COIL SPRING COMPRESSOR

- › For the safe installation and removal of coil springs with a diameter of 110-180 mm
- › **Safety note:** When the spindles are tightened evenly, the clamping heads grip the coils tightly, rendering sideways slip impossible
- › VPA-GS-tested safety



Clamping reach		Code	No.
<b>240</b>	2.2	8031380	1.78/S2
<b>340</b>	2.6	8031460	1.78/S3

### 1.78/P UNIVERSAL COIL SPRING COMPRESSOR

- › For MacPherson suspension strut and transverse link axles with spring diameters of 110-180 mm
- › The hooks are drop forged
- › The wide support rests are matched to the coil spring pitch
- › VPA-GS-tested safety
- › PK = with plastic cap



1.78/P1



1.78/PK1



Clamping reach	max. t		Code	No.
<b>240</b>	3.5	2.6	8111300	1.78/P1
<b>240</b>	3.5	2.5	8031030	1.78/PK1

### 1.79 SPRING SPREADER

- › Especially designed for VAG exhaust installations, where the pipe is not held by bolts to the exhaust manifold, but clamped on using springs



	Code	No.
<b>0.4</b>	8112540	1.79/1

### 1.91 TYRE REMOVING TOOL

- › For breaking the adhesion between truck tyres and wheel rims



$\text{H mm}$		Code	No.
<b>300</b>	2.0	8032270	1.91

## Accessories

### 1.26 NUT SPLITTER

- > For splitting jammed or stripped nuts without damaging the bolt thread
- > Suitable for nuts up to property class 6
- > With chisel stopper



for nuts		mm		Code	No.
<b>10-17 mm, M6-M10</b>	M 14x1,5 x 37	17	0.270	8009880	1.26/1
<b>17-24 mm, M10-M16</b>	M 14x1,5 x 37	17	0.300	8009610	1.26/2
<b>24-36 mm, M16-M24</b>	M 22x1,5 x 70	24	1.130	8010030	1.26/3

Description		Code	No.
<b>Spare chisel for 1.26/1 + /2</b>	0.040	2017016	1.26/M1
<b>Spare chisel for 1.26/3</b>	0.050	2017024	1.26/M3

### 1.26/HYD NUT SPLITTER

hydraulic

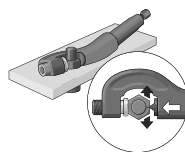
- > With strong chisel, additionally induction hardened
- > At the cutting edge for breakage resistance
- > The chamfer at the chisel's edge improves the splitting effect and prevents breakage
- > With smooth chisel function
- > Channel walls rolled, thus mirror-smooth and wear resistant
- > For nuts up to property class 10
- > Chisel replaceable



1.26/1 HYD



1.26/2 HYD



for nuts	mm	max. t		Code	No.
<b>7-22 mm, M4-M14</b>	12	5.0	0.800	8009450	1.26/1 HYD
<b>22-36 mm, M14-M24</b>	12	13.0	3.400	8009530	1.26/2 HYD

Description		Code	No.
<b>Spare chisel for 1.26/1 HYD</b>	0.020	2018586	1.26/M1 HYD
<b>Spare chisel for 1.26/2 HYD</b>	0.112	2043920	1.26/M2 HYD

### 1.26/K NUT SPLITTER SET

- > For nuts from size 10 mm (M6) to size 36 mm (M24), including spare chisel
- > With chisel stopper
- > In plastic case with Check-Tool insert



Contents		Code	No.
<b>1 nut splitter 10-17 mm, M6-M10, No. 1.26/1</b>	2.460	2017008	1.26/K-3
<b>1 nut splitter 17-24 mm, M10-M16, No. 1.26/2</b>			
<b>1 nut splitter 24-36 mm, M16-M24, No. 1.26/3</b>			
<b>1 spare chisel for 1.26/1 + /2, No. 1.26/M1</b>			
<b>1 spare chisel for 1.26/3, No. 1.26/M3</b>			

### 1.28 STUD EXTRACTOR

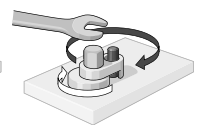
- > For removing damaged studs with right-handed or left-handed thread
- > Even suitable for extremely short stud ends



1.28/1 - 1.28/3



1.28/4

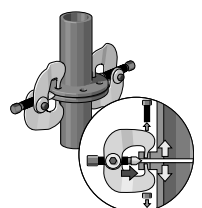


Ø-Stud	mm		Code	No.
<b>6-13</b>	19	0.230	8010620	1.28/1
<b>8-19</b>	19	0.300	8010700	1.28/2
<b>19-25</b>	19	0.400	8010890	1.28/3
<b>5-26</b>	19	0.600	1465031	1.28/4

### 1.90 FLANGE SEPARATORS

(pair)

- > For separating DIN standard flanges on pipes when changing seals and doing maintenance work
- > For Ø 80-250 mm and screw threads M16-M24
- > Use: Always use the separators in pairs and attach them to opposite sides of the flange. When the two spindles are turned alternately, the flanges will be separated from one another evenly. When the spindles are turned back alternately, this guarantees a perfect fitting of the flanges in their original position. Always use in pairs! Press in opposite directions at 180°!



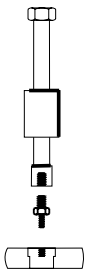
Ø	for screw threads		Code	No.
<b>80-250</b>	M16 - M24	5.5	1596403	1.90/1



# 1.81/1 + 2



## SET OF THREADED INSERTS

for 1-hole uses

- > The threaded inserts make the removal of threaded caps, for example, possible, when these possess one threaded hole
- > No. 1.81/1: For sliding hammers 1.35/1, 1.35/2, counter-support brace 1.36/1
- > No. 1.81/2: For sliding hammers 1.35/2, 1.36/2, counter-support brace 1.36/3



Connecting thread 		Code	No.
<b>M10 - M4</b>	0.340	1120727	1.81/1
<b>M10 - M5</b>			
<b>M10 - M6</b>			
<b>M10 - M8</b>			
<b>M10 - M10</b>			
<b>M10 - M12</b>			

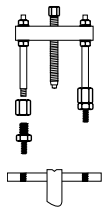
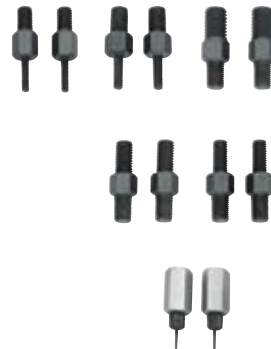
Connecting thread 		Code	No.
<b>M14x1,5 - M8</b>	0.490	1120743	1.81/2
<b>M14x1,5 - M10</b>			
<b>M14x1,5 - M12</b>			
<b>M14x1,5 - M14</b>			
<b>M14x1,5 - M16</b>			
<b>M14x1,5 - M18</b>			



# 1.81/10 + 20



## SET OF THREADED INSERTS

for 1-hole and 2-hole uses, 2 each

- > The threaded inserts make the removal of threaded caps, for example, possible, when these possess one or two threaded holes
- > No. 1.81/10: For separator puller 1.38/0, 1.38/1
- > No. 1.81/20: For separator puller 1.38/2



Connecting thread 		Code	No.
<b>M10 - M4</b>	0.670	1120735	1.81/10
<b>M10 - M5</b>			
<b>M10 - M6</b>			
<b>M10 - M8</b>			
<b>M10 - M10</b>			
<b>M10 - M12</b>			

Connecting thread 		Code	No.
<b>M14x1,5 - M8</b>	1.222	1120751	1.81/20
<b>M14x1,5 - M10</b>			
<b>M14x1,5 - M12</b>			
<b>M14x1,5 - M14</b>			
<b>M14x1,5 - M16</b>			
<b>M14x1,5 - M18</b>			

# 1.81/K

## SET OF THREADED INSERTS

for 1-hole uses

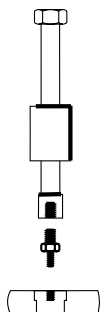
- > The threaded inserts make the removal of threaded caps, for example, possible, when these possess one threaded hole
- > No. 1.81/K-1: With sliding hammer 1.35/1, rod 230 mm and impact weight 200 g
- > No. 1.81/K-12: With sliding hammer 1.35/1A, rod 230 mm and impact weight 700 g, adaptor M14x1,5
- > In robust plastic case, 275 x 229 x 83 mm







1.81/K-1



1.81/K-12



Connecting thread 		Code	No.
<b>M10 - M4</b>	1.000	1936549	1.81/K-1
<b>M10 - M5</b>			
<b>M10 - M6</b>			
<b>M10 - M8</b>			
<b>M10 - M10</b>			
<b>M10 - M12</b>			

Connecting thread 		Code	No.
<b>M10 - M4</b>	1.830	1936557	1.81/K-12
<b>M10 - M5</b>			
<b>M10 - M6</b>			
<b>M10 - M8</b>			
<b>M10 - M10</b>			
<b>M10 - M12</b>			
<b>M14x1,5 - M14</b>			
<b>M14x1,5 - M16</b>			
<b>M14x1,5 - M18</b>			

## Add-on systems

1.18/1.19  
PULLER SET

- > This perforated panel offers place for 12 pullers of the series 1.18 and 1.19
- > For clamping depths up to  $\varnothing$  200 mm and clamping reach up to 200 mm
- > Delivery includes perforated panel




Contents			Code	No.
<b>2-arm Puller</b> 1.18/1 1.18/2 1.18/3	<b>2-arm-Fan puller</b> 1.18/0 1.18/01 1.18/02	21.0	1824007	1.18/1.19
<b>3-arm Puller</b> 1.19/1 1.19/2 1.19/3	<b>3-arm Fan puller</b> 1.19/0 1.19/01 1.19/02			

2.10  
AUTOMOBILE WORKSHOP SET

## Add-on system

- > 2- and 3-arm puller set
- > Clearly arranged module system
- > Everything at hand on perforated wall-board

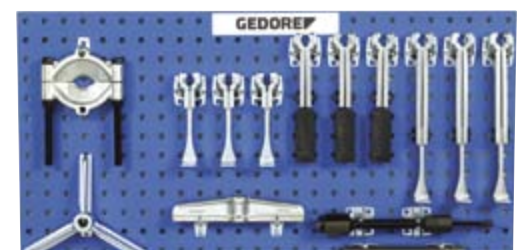



Contents			Code	No.
<b>1 cross-beam, 2-arm pattern 140 mm, No. 106/103</b> <b>1 cross-beam, 3-arm pattern 140 mm, No. 107/103</b> <b>1 spindle 17 mm, M14x1.5, 140 mm, No. 1.1406140</b> <b>3 pulling legs 100 mm, No. 106/A-100-N</b> <b>3 pulling legs slim pattern 100 mm, No. 106/A-100-S</b>	<b>1 battery-terminal puller, 2-arm pattern 60x40 mm, No. 1.12/02</b> <b>1 nut splitter 17-24 mm, M10-M16, No. 1.26/2</b> <b>1 stud extractor 8-19 mm, No. 1.28/2</b> <b>1 dismantling and assembly fork 23 mm, No. 1.70/2</b> <b>1 universal ball joint puller 65x23 mm, No. 1.73/1</b> <b>1 oil filter hook 3-arm pattern 60-120 mm, No. 1.75/1</b>	13.3	1088696	2.10

2.20  
TRUCK WORKSHOP SET

## Add-on system

- > 2- and 3-arm puller set incl. separator
- > Clearly arranged module system
- > For clamping depths up to  $\varnothing$  200 mm external,  $\varnothing$  260 mm internal, and clamping reach up to 300 mm
- > With this set, you will be able to assemble 12 of the usual versions including hydraulic spindle, in seconds
- > 2-arm cross-beams with scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- > Everything at hand on perforated wall-board



Contents			Code	No.
<b>1 cross-beam, 2-arm pattern 260 mm, No. 106/2A03</b> <b>1 cross-beam, 3-arm pattern 260 mm, No. 107/2A03</b> <b>1 spindle 22 mm, G 1/2", 210 mm, No. 1.2106210</b> <b>1 hydraulic pressure spindle 10 t, No. 1.06/HSP1</b>	<b>3 pulling legs 150 mm, No. 106/B-150-N</b> <b>3 pulling legs slim pattern 220 mm, No. 106/B-220-S</b> <b>3 pulling legs slim pattern 220 mm, No. 106/B-220-S</b> <b>1 bearing separator 22-115 mm, No. 1.40/2</b>	23,3	1088718	2.20




## 2.30 INDUSTRIAL PULLING SET

### Add-on system

- > 2- and 3-arm puller set
- > For the assembly of the tried and tested 1.06 and 1.07 versions
- > For clamping depths up to Ø 200 mm external, Ø 260 mm internal, and clamping reach up to 150 mm
- > 2-arm cross-beams with scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- > Using this set, you will be able to assemble 12 of the usual versions with high-speed clamping legs, including hydraulic spindle, in seconds
- > Everything at hand on perforated wall-board




Contents			Code	No.
1 cross-beam, 2-arm pattern 140 mm, No. 106/103	1 spindle 17 mm, M14x1.5, 140 mm, No. 1.1406140	19.4	1393014	2.30
1 cross-beam, 2-arm pattern 180 mm, No. 106/1A03				
1 cross-beam, 2-arm pattern 220 mm, No. 106/203	1 spindle 22 mm, G 1/2", 210 mm, No. 1.2106210			
1 cross-beam, 2-arm pattern 260 mm, No. 106/2A03	1 hydraulic pressure spindle 10 t, No. 1.06/HSP1			
1 cross-beam, 3-arm pattern 140 mm, No. 107/103	3 quick-release pulling legs 100 mm, No. 106/A-100-E			
1 cross-beam, 3-arm pattern 180 mm, No. 107/1A03				
1 cross-beam, 3-arm pattern 220 mm, No. 107/203	3 quick-release pulling legs 150 mm, No. 106/B-150-E			
1 cross-beam, 3-arm pattern 260 mm, No. 107/2A03				

## 2.30-B INDUSTRIAL PULLING SET WITH LEG BRAKE

### Add-on system

- > 2- and 3-arm puller set
- > For the assembly of the tried and tested 1.06 and 1.07 versions
- > For clamping depths up to Ø 210 mm external as well Ø 260 mm internal, and clamping reach up to 150 mm
- > With this set, you will be able to assemble 12 of the usual versions with high-speed clamping legs, including hydraulic spindle, in seconds
- > 2-arm cross-beams with scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- > Leg brake prevents unintentional leg slipping. The leg can be slid along the cross-beam at the push of a button
- > Everything at hand on perforated wall-board




Contents			Code	No.
1 cross-beam, 2-arm pattern 140 mm, No. 106/103	1 spindle 17 mm, M14x1.5, 140 mm, No. 1.1406140	19.4	2017032	2.30-B
1 cross-beam, 2-arm pattern 180 mm, No. 106/1A03	1 spindle 22 mm, G 1/2", 210 mm, No. 1.2106210			
1 cross-beam, 2-arm pattern 220 mm, No. 106/203	1 hydraulic pressure spindle 10 t, No. 1.06/HSP1			
1 cross-beam, 2-arm pattern 260 mm, No. 106/2A03	3 pulling legs, all steel, leg brake 100 mm, No. 106/A-100-B			
1 cross-beam, 3-arm pattern 140 mm, No. 107/103				
1 cross-beam, 3-arm pattern 180 mm, No. 107/1A03	3 pulling legs, all steel, leg brake 150 mm, No. 106/B-150-B			
1 cross-beam, 3-arm pattern 220 mm, No. 107/203				
1 cross-beam, 3-arm pattern 260 mm, No. 107/2A03				

## 2.40 PULLING SET FOR CONSTRUCTION MACHINES

### Add-on system

- > 2- and 3-arm puller set
- > For the assembly of the robust and handy strap-pattern pulling tools 1.14 and 1.15
- > For clamping depths up to Ø 280 mm and clamping reach up to 390 mm
- > With this set, you will be able to assemble 10 of the usual flexible strap-pattern pulling tools from the range 1.14/1.15, including the new hydraulic spindle
- > Everything at hand on perforated wall-board




Inhalt			Code	No.
1 head 2-arm pattern No. 114/204	1 hydraulic pressure spindle 10 t, No. 1.06/HSP1	24,3	1393030	2.40
1 head 2-arm pattern No. 114/304	3 pulling legs 210 mm, No. 114/201			
1 head 3-arm pattern No. 115/204	3 pulling legs 260 mm, No. 114/301			
1 head 3-arm pattern No. 115/304	3 pulling legs 390 mm, No. 114/401			
1 spindle 19 mm, M18x1.5, 200 mm, No. 1.1806200	6 straps No. 114/208			
1 spindle 22 mm, G 1/2", 250 mm, No. 1.2106250	12 straps No. 114/308			

## 2.50

# SET OF INTERNAL AND EXTERNAL EXTRACTORS

- › Suitable for various applications of external or internal extraction
- › Internal extractors for bores with  $\varnothing$  5 - 55 mm. To use in connection with sliding hammer or counter-support braces
- › External extractors with various clamping depths up to 130 mm
- › Separators and pullers incl. extension rods, ideal for removing tightly-seated or thin-walled parts for outer diameter 5 - 115 mm
- › Everything at hand on perforated wall-board



Contents	 kg	Code	No.
1 internal extractor 5-8 mm, No. 1.30/0	29.0	2017040	2.50
1 internal extractor 8-12 mm, No. 1.30/1			
1 internal extractor 12-15 mm, No. 1.30/2			
1 internal extractor 15-19 mm, No. 1.30/3			
1 internal extractor 19-25 mm, No. 1.30/4			
1 internal extractor 25-30 mm, No. 1.30/4A			
1 internal extractor 30-35 mm, No. 1.30/5			
1 internal extractor 35-45 mm, No. 1.30/6			
1 internal extractor 45-55 mm, No. 1.30/7			
1 sliding hammer 230 mm, 700 g, No. 1.35/1A			
1 sliding hammer 500 mm, 1,7 kg, No. 1.35/2			
1 counter-support brace for 1.30/0 - 1.30/5, No. 1.36/1			
1 counter-support brace for 1.30/6 - 1.30/7, No. 1.36/2			
1 universal puller HIGH POWER 2-arm pattern 130x100 mm, No. 1.04/HP1A			
1 battery-terminal puller, 3-arm pattern 70x80 mm, No. 1.13/00			
1 puller 80x85 mm, No. 1.23/1S			
1 separator puller 40-120 mm, No. 1.38/0			
1 separator puller 70-215 mm, No. 1.38/2			
1 extension rod M10, No. 1.38/AV			
1 extension rod M14x1.5, No. 1.38/CV			
1 bearing separator 5-60 mm, No. 1.40/0			
1 bearing separator 22-115 mm, No. 1.40/2			

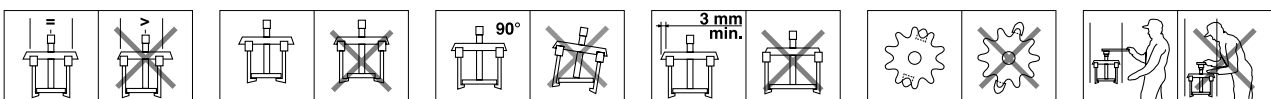
INDIVIDUAL WALL-BOARDS AVAILABLE ON REQUEST!



## SAFETY NOTES

### PULLERS

- › Read the operating instructions!
- › Use only original spare parts and accessories for your GEDORE puller. Never use worn, modified or defective spare parts or accessories.
- › Wear goggles and protective clothing when working. For added safety, use the GEDORE safety cover 5.10!
- › Before pulling, ensure that the legs are in contact with the part to be pulled and are firmly tightened so that the spindle operates centrally along the axis of the puller.
- › Attention! When using a puller, forces of up to several tons are generated! Take care to ensure that the puller is correctly positioned and is vertical to the component being pulled.
- › Do not use electric or pneumatic power or percussion drivers.





**GEDORE**  
ROTBAND-PLUS



# HAMMERS / STRIKING TOOLS

ENGINEERS' HAMMERS  
>503



CLUB HAMMERS  
>508



SLEDGE HAMMERS  
>510



BRICKLAYER'S HAMMERS  
>513



CARPENTER'S HAMMERS  
>513



HAMMERS MISCELLANEOUS  
>514



RECOILLESS HAMMERS  
>515



SAFETY HAMMERS /  
WOODEN / COPPER /  
LEAD HAMMERS  
>516



FORGING TOOLS  
>519



CHISELS  
>520



DRIFT / CENTRE /  
PIN PUNCHES / SETS  
>524



BENDING BARS / PRYBARS /  
NAIL LIFTER / CROWBARS  
>528



# SAFETY BEAT BY BEAT

For Rough Work and Precision Alike

**Large selection of hammers**

- > From the tile hammer, recoilless hammer, forging tool and engineer's hammer through to the sledge hammer
- > Top-grade industrial quality for the hardest of continuous uses
- > Available singly or in practical sets
- > Customised manufacturing and types on request

**Large selection including chisels, center punches and drift punches**

- > With optional hand guard
- > Also available in the range/set
- > Precisely hardened and annealed - long service life

**Top quality - everything from a single source**

- > The base is made up of stringently controlled quality steel and meticulously selected wood
- > Experienced and reliable specialists vouch for precision-like processing
- > Hammer head and shaft (up to 400 mm) are made in GEDORE's own production facilities in Germany
- > Stringent quality checks after each production step ensure a constantly high level

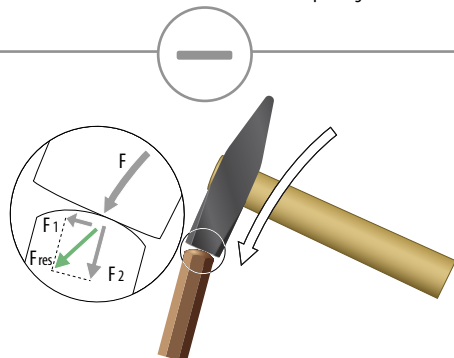
ROT BAND-PLUS system - dependability under extreme loading

- > Hammers utilise the patented ROT BAND-PLUS securing system - "no losing of heads" as a result
- > The ideal aid for site work
- > Models with extra inductively tempered edges of the faces

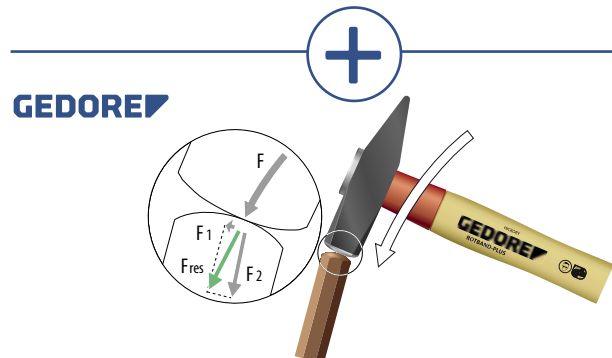


GEDORE hammers and GEDORE chisels - An alliance for safe working























Considerable forces are liberated on hammer face and chisel head impacting on each other.



GEDORE hammers and chisels are optimally adapted to each other. Their regulation-compliant geometrical shape diverts the bulk of the forces raised towards the chisel tip.



In the case of hammers and chisels which are not ground in a regulation-compliant manner, most of the force raised is not transferred to the chisel tip and can, as a result, give rise to serious injuries.

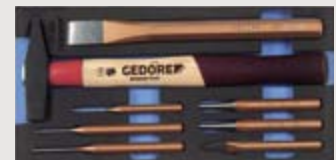
											
		ROT BAND-PLUS	hickory	ash	tubular steel	fibreglass	plastic	rubber with steel tube	inductive	g	
	600 E	●	○	●	○	○	○	○	○	100 – 2000	○
	600 H	●	●	○	○	○	○	○	○	100 – 2000	○
	600 IH	●	●	○	○	○	○	○	●	200 – 2000	○
	4 E	○	○	●	○	○	○	○	○	50 – 2000	○
	4 H	○	●	○	○	○	○	○	○	50 – 2000	○
	4 K	○	○	○	○	○	●	○	○	200 – 1000	○
	500 F	○	○	○	○	●	○	○	○	200 – 2000	○
	500 ST	○	○	○	●	○	○	○	○	300 – 500	○
	8601	○	○	●	○	○	○	○	○	1/4 LBS – 2 LBS	○
	65 E	○	○	●	○	○	○	○	○	100 – 600	○
	620 E	●	○	●	○	○	○	○	○	1000 – 2000	○
	620 H	●	●	○	○	○	○	○	○	1000 – 2000	○
	20 E	○	○	●	○	○	○	○	○	1000 – 10000	○
	20 H	○	●	○	○	○	○	○	○	1000 – 10000	○
	20 F	○	○	○	○	●	○	○	○	1000 – 10000	○
	20 ST	○	○	○	●	○	○	○	○	1000 – 1250	○
	609 H	●	●	○	○	○	○	○	○	3000 – 8000	○
	9 E	○	○	●	○	○	○	○	○	3000 – 8000	○
	9 H	○	●	○	○	○	○	○	○	3000 – 8000	○
	9 F	○	○	○	○	●	○	○	○	3000 – 8000	○
	9 G	○	○	○	○	○	○	●	○	5000	○
	29 ST	○	○	○	●	○	○	○	○	500	○
	94 ST	○	○	○	●	○	○	○	○	600	○
	93 ST	○	○	○	●	○	○	○	○	600	○
	75 GSTM	○	○	○	all-steel	○	○	○	○	600	●
	75 STK	○	○	○	●	○	○	○	○	600	○
	75 ST	○	○	○	●	○	○	○	○	600	○
	75 STKM	○	○	○	●	○	○	○	○	600	●
	75 STM	○	○	○	●	○	○	○	○	600	●
	71 GSTM	○	○	○	all-steel	○	○	○	○		●
	677 H	●	●	○	○	○	○	○	○	300	○
	77 ST	○	○	○	●	○	○	○	○	400	○
	77 E	○	○	●	○	○	○	○	○	330	○

1000



>069

1500 CT1-350



>111

# HOW CAN I TELL IF THE HAMMER IS A RELIABLE ONE?

**+ Accurate 45° edge at hammer face and pein**  
The edge - also referred to as chamfer - stops any dangerous splintering. GEDORE hammers have a clean-cut edge as conforming to regulations.

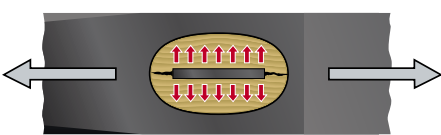
**+ Distinctive manufacturer's name on the hammer head**

**+ Assured and firm connection/fitting of hammer shaft and head**  
Take a look: are there any gaps between hammer eye and shaft? The wooden shaft must be secure and shake-free in the hammer head. The shaft/hammer head connection must be securely wedged. GEDORE only uses tapered collars which ensure optimum distribution of the clamping force in the hammer eye. The ROTBAND-PLUS system developed and patented by GEDORE turns every ordinary DIN hammer into a "safety hammer".

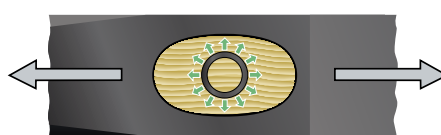
**+ Permanent marking**  
GEDORE stamps or forges the DIN 1041, the weight and the manufacturer's logo into the hammer head in a permanent and legible manner.

**+ The hammer head must be correctly hardened and tempered**  
No precision hardening and annealing - also referred to tempering - can be checked on without the use of aids. The hammer face and pein must have a hardness of between 50 and 58 HRC. Hardness must reach down to at least 3 mm. 30 HRC is not to be exceeded at the inserting eye for safety reasons. GEDORE manufactures on the basis of the above DIN 1193 requirements and meets them at the same time. Constant tests vouch for these figures.

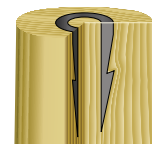
**+ Is the shaft fault-free?**  
The hammer shaft is not to have any cracks, branch holes or other faults. Nor every type of wood is suitable for hammer shafts. Hickory and ash are noted as the preferred woods in DIN 68340. Only these two wood types are used by GEDORE in its own manufacturing process.



No clamping force in the direction of motion thanks to the **flat wedge**.



The **tapered collar** evenly distributes the clamping force across 360° i.e. also in the direction of motion. The wood fibre structure is not ruined. There is no slackening of the hammer head even after



several hundred strikes. The barbed hook ensures a positive fit and stops the tapered collar from loosening. A safety "extra".

## WOODEN HANDLES



### Hickory handles

- > High quality and extremely break-proof wood. Compared with ash the physical load stability of hickory is around 3-4 times higher
- > Long-fibre structure: More safety in the event of a handle breakage - the wood is held together by the long fibres and hence uncontrolled separation of the broken handle as well as the hammer head is avoided
- > Vibration dampening
- > Long life = very good price-performance ratio



### Ash handles

- > This wood is prescribed by the DIN as the minimum wood quality
- > Inexpensive
- > Break-proof
- > Short-fibre structure: the short fibres in the wood mean that, in the event of a break, the shaft cannot be held together. The shaft breaks into two parts.

### **i** Wood is a natural product!

- > GEDORE uses only wood types and timbers that comply with DIN 68 340 (Wooden Shafts for Impact Tools)
- > Wood retains its natural properties even after processing
- > Trees regulate their moisture content by giving off moisture through their pores. This property is retained in processed wood. This means that a wooden hammer shaft loses moisture through its pores when the air humidity is low and shrinks. Too much moisture causes the wooden shaft to swell up and damages the wooden fibres.
- > DIN 68 340 defines the required moisture content of the hammer shaft at the time of joining the shaft to the head. This must be between 12 % and 14 % in relation to the dry weight. In-house manufacture under continuous quality controls guarantees compliance with the requirements of DIN 68 340

### Tip

- > Before use, always check that the hammer head is securely attached to the shaft!
- > Never store the hammer in too dry conditions!
- > Storage in well-heated rooms or near a source of heat is particularly harmful, drawing moisture out of the hammer shaft, causing the shaft section to shrink. In extreme cases, the secure fit of the hammer head on the shaft can no longer be guaranteed.

## STEEL TUBE, FIBRE GLASS OR PLASTIC HANDLES



### Tubular steel handles

- > High bending strength
- > Resistant to the influence of weather



### Fibre glass handles

- > Robust - virtually unbreakable
- > Insensitive to all weather conditions - can also be fully used in minus temperatures and is still unbreakable
- > Resistant to all common chemicals such as for example oils and greases



### Rubber grip and steel tube handle

- > Resilient
- > Unbeatable price-performance ratio since the hammer is very durable
- > Vibration dampening
- > Resistant to petrol and oil
- > Serrated gripping zones for a firm grip

### Note

- > Intensive testing of steel tube, fibre glass and plastic shafts as to a firm fit in the hammer head is required. Preference is for hammers with an additionally secured head. The head is also positively fitted to the hammer shaft by means of a spring pin.
- > Rubber handgrip feature: make sure the handgrip is firmly bonded to the shaft. Try out the turning test. A handgrip which can still be turned on the hammer shaft does not meet the DIN-prescribed figures.

### **i** Safety notes for fibre glass handles

- > Mishits with fibre glass tools can lead to the material fibre detaching.
- > To stop these fibres inflaming the skin, we would recommend safety gloves being worn during the work.

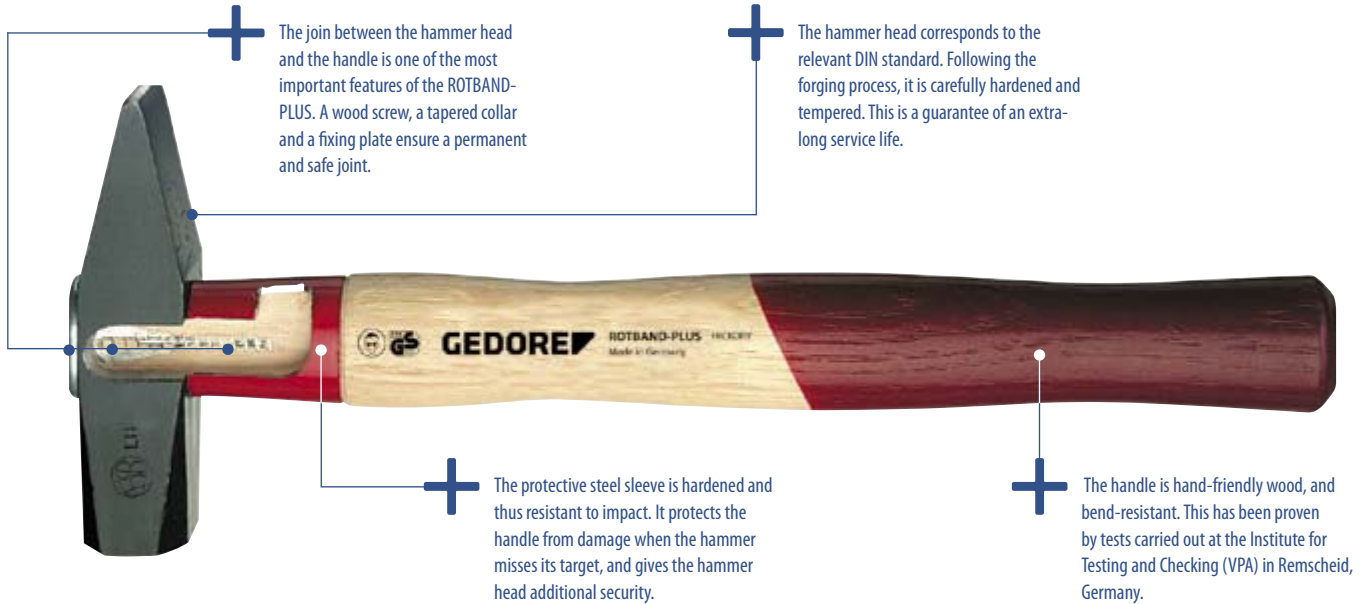
### SAFETY NOTES FOR HAMMERS

&gt; 642



# ROTBAND-PLUS HAMMERS

THE ORIGINAL - A safe join

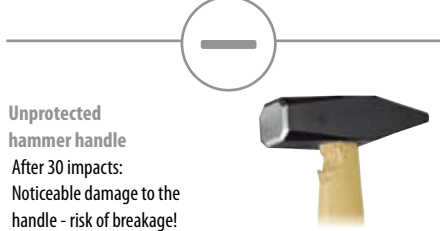


## ROTBAND-PLUS hammer

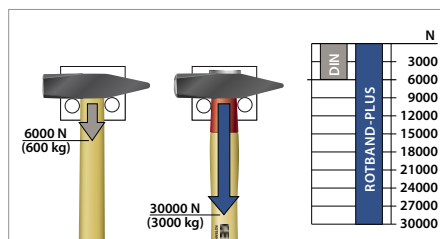
- > The hammer shaft is pressed into the hammer head.
- > The ring wedge is pressed in to secure the shaft in the eye of the hammer head.
- > The round, conical form ensures an all-round, uniform pressure.
- > Tightening the wood screw ensures a positive fit of the safety plate with the shaft.



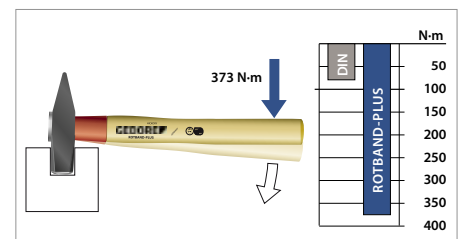
## Safety principle



## Features



The values required by the German Standards Institute (DIN) are exceeded considerably. According to the report by the Institute for Testing and Checking (VPA) in Remscheid, with the ROTBAND-PLUS hammers more than five times the required force was attained.



Due to the hardened ROTBAND-PLUS protective sleeve for the handle and the fixing plate, the bending strength of the ROTBAND-PLUS hammers exceeds that of standard DIN hammers by a wide margin.

## All the benefits at a single glance

- > Patented handle join ROTBAND-PLUS
- > The protective steel sleeve, the tapered collar, the fixing plate and the wood screw bond the hammer head and the handle into one unit = maximum work safety
- > Best price-performance ratio
- > The protective steel sleeve protects the handle from damage when the hammer misses its target and guarantees thus a long service life
- > With the standardised ROTBAND-PLUS handles every standardised hammer head can be turned into a ROTBAND-PLUS hammer.



## Hammers / Striking Tools

### Engineers' hammers ROTBAND-PLUS

#### 600 E + 600 H ENGINEERS' HAMMER ROTBAND-PLUS

- > Forged hammer head DIN 1041
- > With contoured ash (E 600 E) or hickory (E 600 H) handle DIN 5111, additionally shaped with a long hardened handle protective steel sleeve
- > The tapered collar, fixing plate and wood screw bond the hammer head and the handle into one unit
- > ROTBAND-PLUS handle join, high working safety, long service life, best price-performance ratio



Ash				
g	l mm	kg	Code	No.
100	260	0.188	8581610	600 E-100
200	280	0.325	8581880	600 E-200
300	300	0.502	8581960	600 E-300
400	310	0.605	8582180	600 E-400
500	320	0.727	8582260	600 E-500
600	330	0.841	8582340	600 E-600
800	350	1.135	8582420	600 E-800
1000	360	1.326	8582500	600 E-1000
1500	380	1.908	8582690	600 E-1500
2000	400	2.491	8582770	600 E-2000

Hickory				
g	l mm	kg	Code	No.
100	260	0.188	8582850	600 H-100
200	280	0.325	8582930	600 H-200
300	300	0.502	8583070	600 H-300
400	310	0.605	8583150	600 H-400
500	320	0.727	8583230	600 H-500
600	330	0.840	8583310	600 H-600
800	350	1.135	8583580	600 H-800
1000	360	1.326	8583660	600 H-1000
1500	380	1.908	8583740	600 H-1500
2000	400	2.491	8583820	600 H-2000

#### 600 IH ENGINEERS' HAMMER ROTBAND-PLUS

- > Forged hammer head DIN 1041
- > The edges of the flat side of the head are induction hardened
- > With contoured hickory handle DIN 5111, additionally shaped with a long hardened handle protective steel sleeve
- > The tapered collar, fixing plate and wood screw bond the hammer head and the handle into one unit
- > ROTBAND-PLUS handle join, high working safety, long service life, best price-performance ratio



g	l mm	kg	Code	No.
200	280	0.325	8583900	600 IH-200
300	300	0.502	8584040	600 IH-300
400	310	0.605	8584120	600 IH-400
500	320	0.727	8584200	600 IH-500
600	330	0.841	8584390	600 IH-600
800	350	1.135	8587300	600 IH-800
1000	360	1.326	8587490	600 IH-1000
1500	380	1.908	8587570	600 IH-1500
2000	400	2.491	8588970	600 IH-2000

1500 ES-350/1500 CT1-350

>103/111



6 NA

>507



## HELVING - MADE EASY



- > Hammer the handle into the hammer head until it reaches the casing
- > Drive the tapered collar into the centre of the handle
- > Fasten the safety plate with a wood screw





## E 600 E + E 600 H SPARE HANDLE ROTBAND-PLUS FOR ENGINEERS' HAMMERS

- > Ash (E 600 E) or hickory (E 600 H) DIN 5111
- > With hardened handle protective steel sleeve, tapered collar, fixing plate and wood screw
- > With this standard wooden handle, according to DIN 5111 it is possible to convert even ordinary hammer heads, as long as they are to DIN standards, to a ROTBAND-PLUS-hammer
- > Method: Hammer the handle into the hammer head until it reaches the casing. Drive the tapered collar into the centre of the handle. Fasten the safety plate with a wood screw




Ash	for  g	l- mm -l		Code	No.
<b>100</b>	260	0.076	8589000	E 600 E-100	
<b>200</b>	280	0.099	8589190	E 600 E-200	
<b>300</b>	300	0.150	8589270	E 600 E-300	
<b>400</b>	310	0.179	8589350	E 600 E-400	
<b>500</b>	320	0.185	8589430	E 600 E-500	
<b>600</b>	330	0.214	8589510	E 600 E-600	
<b>800</b>	350	0.210	8589780	E 600 E-800	
<b>1000</b>	360	0.288	8589860	E 600 E-1000	
<b>1500</b>	380	0.350	8589940	E 600 E-1500	
<b>2000</b>	400	0.377	8593700	E 600 E-2000	


Hickory	for  g	l- mm -l		Code	No.
<b>100</b>	260	0.081	8593890	E 600 H-100	
<b>200</b>	280	0.120	8595080	E 600 H-200	
<b>300</b>	300	0.134	8595160	E 600 H-300	
<b>400</b>	310	0.180	8595240	E 600 H-400	
<b>500</b>	320	0.198	8596480	E 600 H-500	
<b>600</b>	330	0.234	8596560	E 600 H-600	
<b>800</b>	350	0.296	8596640	E 600 H-800	
<b>1000</b>	360	0.315	8597880	E 600 H-1000	
<b>1500</b>	380	0.373	8597960	E 600 H-1500	
<b>2000</b>	400	0.442	8599070	E 600 H-2000	

## E 5 SPARE TAPERED COLLAR

- > For safe fastening of the wooden handles



Ø	l- mm -l		Code	No.
<b>7</b>	12.0	0.001	8593970	E 5-100
<b>8</b>	15.0	0.003	8594000	E 5-200
<b>10</b>	17.0	0.004	8594190	E 5-300
<b>11</b>	18.0	0.005	8594270	E 5-400
<b>12</b>	20.0	0.007	8594350	E 5-500

Ø	l- mm -l		Code	No.
<b>13</b>	20.0	0.008	8594860	E 5-600
<b>14</b>	21.0	0.009	8594430	E 5-800
<b>14</b>	21.0	0.010	8594940	E 5-1000
<b>15</b>	23.5	0.013	8594510	E 5-1500
<b>16</b>	23.0	0.014	8594780	E 5-2000



## Engineers' hammers

### HANDLE TYPES

> For more information on handle types see page 501



### 4 E + 4 H ENGINEERS' HAMMER

- > Forged hammer head DIN 1041
- > With ash (E 4 E) or hickory handle (E 4 H) to DIN 5111



Ash				
g	↳ mm	kg	Code	No.
50	250	0.089	8586090	4 E-50
100	260	0.158	8586170	4 E-100
200	280	0.275	8586250	4 E-200
300	300	0.440	8586330	4 E-300
400	310	0.530	8586410	4 E-400
500	320	0.625	8586680	4 E-500
600	330	0.750	8586760	4 E-600
800	350	0.930	8586840	4 E-800
1000	360	1.180	8586920	4 E-1000
1500	380	1.760	8587060	4 E-1500
2000	400	2.320	8587140	4 E-2000

Hickory				
g	↳ mm	kg	Code	No.
100	260	0.168	8590280	4 H-100
200	280	0.300	8590360	4 H-200
300	300	0.460	8590440	4 H-300
400	310	0.550	8590520	4 H-400
500	320	0.650	8590600	4 H-500
600	330	0.760	8590790	4 H-600
800	350	1.030	8590870	4 H-800
1000	360	1.210	8590950	4 H-1000
1500	380	1.859	8591090	4 H-1500
2000	400	2.370	8591170	4 H-2000

### E 4 E + E 4 H SPARE HANDLE

- > Ash (E 4 E) or hickory handle (E 4 H), acc. to DIN 5111
- > With oval fixing hole, i.e. for engineers' hammers



Ash				
for g	↳ mm	kg	Code	No.
50	250	0.033	8587650	E 4 E-50
100	260	0.045	8587730	E 4 E-100
200	280	0.085	8587810	E 4 E-200
300	300	0.099	8588030	E 4 E-300
400	310	0.100	8588110	E 4 E-400
500	320	0.160	8588380	E 4 E-500
600	330	0.140	8588460	E 4 E-600
800	350	0.165	8588540	E 4 E-800
1000	360	0.183	8588620	E 4 E-1000
1500	380	0.196	8588700	E 4 E-1500
2000	400	0.261	8588890	E 4 E-2000

Hickory				
for g	↳ mm	kg	Code	No.
100	260	0.058	8591330	E 4 H-100
200	280	0.085	8591410	E 4 H-200
300	300	0.085	8591680	E 4 H-300
400	310	0.120	8591760	E 4 H-400
500	320	0.140	8591840	E 4 H-500
600	330	0.150	8591920	E 4 H-600
800	350	0.210	8592060	E 4 H-800
1000	360	0.225	8592140	E 4 H-1000
1500	380	0.190	8592220	E 4 H-1500
2000	400	0.280	8592300	E 4 H-2000

## 4 K ENGINEERS' HAMMER

- > Forged hammer head DIN 1041
- > With Ultramid® plastic handle and safety wedge
- > Ultramid® = trade name of BASF AG, Germany



g	l mm	kg	Code	No.
200	280	0.280	8812950	4 K-200
300	300	0.430	8604170	4 K-300
500	320	0.630	8604330	4 K-500
800	350	1.020	8604680	4 K-800
1000	360	1.160	8604760	4 K-1000

## 500 F ENGINEERS' HAMMER

- > Forged hammer head
- > Nearly unbreakable fibreglass handle with plastic grip
- > Additionally hardened handle protective steel sleeve, with secured head
- > Induction tempered edges of the flat side of the head available on request



g	l mm	kg	Code	No.
200	280	0.360	8598180	500 F-200
300	300	0.570	8598260	500 F-300
400	310	0.660	8598340	500 F-400
500	320	0.770	8598420	500 F-500
600	330	0.900	8598500	500 F-600
800	350	1.174	8598690	500 F-800
1000	360	1.398	8598770	500 F-1000
1500	380	1.838	8598850	500 F-1500
2000	400	2.352	8598930	500 F-2000

## E 4 K SPARE HANDLE

- > Made from Ultramid® plastics
- > Suitable for all hammer heads acc. to DIN 1041
- > Delivery complete with tapered collar and fixing clip
- > Ultramid® = trade name of BASF AG, Germany



l mm	kg	Code	No.
280	0.070	8897170	E 4 K-200
300	0.090	8897250	E 4 K-300
320	0.120	8897330	E 4 K-500
350	0.180	8897410	E 4 K-800
360	0.192	8897680	E 4 K-1000

## 500 ST ENGINEERS' HAMMER

- > Forged hammer head
- > Steel tube handle with plastic grip
- > Very robust and durable



g	l mm	kg	Code	No.
300	270	0.575	8606620	500 ST-300
500	300	0.780	8606890	500 ST-500

248 ST

>516





## 6 NA SOFT FACE CAP

for engineers' hammers

> Polyethylene





for  g		Code	No.
300	0.025	8605570	6 NA-300
500	0.050	8605650	6 NA-500
800	0.060	8605730	6 NA-800
1000	0.053	8802990	6 NA-1000


## 8601 ENGINEER'S BALL PEIN HAMMER WITH BALL


- > With hickory handle
- > Hardened and tempered steel to EN 10083
- > Enamelled, face and ball ground



lbs 	l- mm >		Code	No.
1/4	270	0.172	6764030	8601 1/4
1/2	290	0.307	6764110	8601 1/2
3/4	310	0.475	6764380	8601 3/4
1	325	0.565	6764460	8601 1
1.1/8	350	0.605	1429078	8601 1.1/8
1.1/4	350	0.772	6764540	8601 1.1/4
1.1/2	365	0.800	6764620	8601 1.1/2
1.3/4	400	0.900	1429108	8601 1.3/4
2	380	1.073	6764700	8601 2

## E-8601 SPARE HANDLE HICKORY

l- mm >		Code	No.
270	0.105	1431056	E-8601 1/4
290	0.120	1431102	E-8601 1/2
310	0.135	1431110	E-8601 3/4
325	0.150	1431129	E-8601 1
350	0.165	1431137	E-8601 1.1/8

l- mm >		Code	No.
350	0.180	1431145	E-8601 1.1/4
365	0.195	1431153	E-8601 1.1/2
400	0.210	1431161	E-8601 1.3/4
380	0.225	1431188	E-8601 2

### Joiners' hammers


## 65 E JOINERS' HAMMER

French pattern

> With contoured ash handle DIN 5111



mm	l- mm >	Spare handle		Code	No.
20	280	E 4 E-200	0.240	8684340	65 E-20
22	300	E 4 E-300	0.350	8684420	65 E-22

mm	l- mm >	Spare handle		Code	No.
25	310	E 4 E-400	0.450	8684500	65 E-25
28	320	E 4 E-500	0.590	8684690	65 E-28

## Club hammers

### 620 E + 620 H CLUB HAMMER ROT BAND-PLUS

- > Forged head DIN 6475
- > Contoured ash (E 620 E) or hickory handle (E 620 H) DIN 5135, supplementary with long hardened handle protective steel sleeve
- > The sleeve, tapered collar, fixing plate and wood screw bond the hammer head and wood handle into one unit
- > ROTBAND-PLUS handle join, high working safety, long service life, best price-performance ratio



Ash				
g	l-mm	kg	Code	No.
1000	260	1.288	8886990	620 E-1000
1250	260	1.483	8887020	620 E-1250
1500	280	1.820	8887100	620 E-1500
2000	300	2.291	8887290	620 E-2000

Hickory				
g	l-mm	kg	Code	No.
1000	260	1.317	8887370	620 H-1000
1250	260	1.493	8887450	620 H-1250
1500	280	1.820	8887530	620 H-1500
2000	300	2.240	8887610	620 H-2000

### E 20 E + E 20 H SPARE HANDLE FOR CLUB HAMMERS

- > Ash (E 20 E, E 9 E) or hickory (E 20 H, E 9 H)
- > E 20 acc. to DIN 5135
- > E 9 acc. to DIN 5112



Ash				
for hammers	l-mm	kg	Code	No.
20-1000, 20-1250, 46-1000, 46-1250	260	0.151	8633940	E 20 E-1000
20-1500, 46-1500	280	0.131	8634160	E 20 E-1500
20-2000, 46-2000	300	0.178	8634240	E 20 E-2000
9-3, 10-3, 17-3, 20-3	600	0.400	8613080	E 9 E-3
9-4, 10-4, 17-4, 20-4	700	0.580	8613160	E 9 E-4
9-5, 9-6, 10-5, 10-6, 17-5, 17-6, 20-5, 20-6	800	0.730	8613240	E 9 E-5
9-8, 9-10, 17-8, 17-10, 20-8, 20-10	900	1.100	8613400	E 9 E-8

Hickory				
for hammers	l-mm	kg	Code	No.
20-1000, 20-1250	260	0.163	8636880	E 20 H-1000
20-1500	280	0.136	8637180	E 20 H-1500
20-2000	300	0.210	8637260	E 20 H-2000
9-3, 10-3, 17-3, 20-3	600	0.400	8616500	E 9 H-3
9-4, 10-4, 17-4, 20-4	700	0.630	8616690	E 9 H-4
9-5, 9-6, 10-5, 10-6, 17-5, 17-6, 20-5, 20-6	800	0.810	8616770	E 9 H-5
9-8, 9-10, 17-8, 17-10, 20-8, 20-10	900	0.960	8616930	E 9 H-8

### E 620 E + E 620 H SPARE HANDLE ROTBAND-PLUS

- > Contoured ash (E 620 E) or hickory handle (E 620 H) DIN 5135
- > With hardened handle protective steel sleeve, fixing plate, tapered collar and wood screw
- > For all club hammers according to DIN 6475
- > With this handle acc. to DIN, every standard DIN club hammer head can be converted to a ROTBAND-PLUS club hammer



Ash				
for	g	l-mm	kg	Code
1000	260	0.240	8678100	E 620 E-1000
1250	260	0.230	8749650	E 620 E-1250
1500	280	0.280	8676670	E 620 E-1500
2000	300	0.310	8676750	E 620 E-2000

Hickory				
for	g	l-mm	kg	Code
1000	260	0.270	8677210	E 620 H-1000
1250	260	0.260	8749730	E 620 H-1250
1500	280	0.280	8677480	E 620 H-1500
2000	300	0.350	8677560	E 620 H-2000

### 20 E + 20 H CLUB HAMMER

- > Forged head DIN 6475
- > With ash (E 20 E) or hickory handle (E 20 H) DIN 5135 up to 2000 g
- > As from 3 kg with ash (E 9 E) or hickory handle (E 9 H) DIN 5112



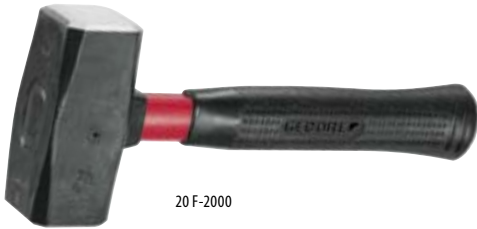
Ash				
g	l-mm	kg	Code	No.
1000	260	1.196	8632460	20 E-1000
1250	260	1.388	8632540	20 E-1250
1500	280	1.704	8632620	20 E-1500
2000	300	2.176	8632700	20 E-2000
3000	600	3.480	8632890	20 E-3
4000	700	4.280	8632970	20 E-4
5000	800	5.750	8633000	20 E-5
6000	800	6.505	8633190	20 E-6
8000	900	9.100	8633270	20 E-8

Hickory				
g	l-mm	kg	Code	No.
1000	260	1.220	8635210	20 H-1000
1250	260	1.406	8635480	20 H-1250
1500	280	1.740	8635560	20 H-1500
2000	300	2.275	8635640	20 H-2000



## 20 F CLUB HAMMER

- > Forged head DIN 6475
- > Nearly unbreakable fibreglass handle with plastic grip and secured head



20 F-2000



20 F-8



g	↳ mm	⚖ kg	Code	No.
1000	260	1.270	8815620	20 F-1000
1250	260	1.480	8815700	20 F-1250
1500	280	1.775	8815890	20 F-1500
2000	300	2.280	8815970	20 F-2000
3000	600	3.720	8816000	20 F-3
4000	700	4.750	8866530	20 F-4
5000	800	6.430	8866610	20 F-5
6000	800	7.098	8866880	20 F-6
8000	900	9.100	8866960	20 F-8

## 20 ST CLUB HAMMER

- > Forged head
- > With steel tube handle and plastic grip
- > Very robust and durable



g	↳ mm	⚖ kg	Code	No.
1000	260	1.400	8640800	20 ST-1000
1250	260	1.570	8640990	20 ST-1250

## 21 SOFT FACE CAP

for club hammers



for club hammer g	⚖ kg	Code	No.
1000	0.330	8641960	21-1000
1250	0.375	8642180	21-1250
1500	0.310	8642260	21-1500
2000	0.290	8642340	21-2000



## Sledge hammers

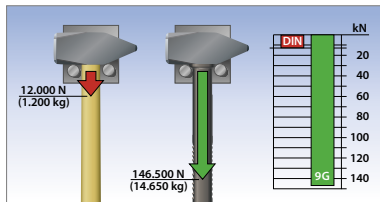
GuStaV Gu = Rubber Sta = Steel V = Version

## THE WORLD'S SAFEST HAMMER



## HIGHEST SAFETY

- > since the hammer head is intractably fitted with the handle
- > since value DESIGNATED 1,200 kg (12,000 N) / value ACTUAL 9 GuStaV: 14,650\* kg (145,500 N)  
\*the test had to be stopped at this figure as the machine no longer had any "grappling point" due to the abraded rubber at the steel handle. The hammer head remained firmly fitted to the handle.
- > since a hardened steel tube is mounted in the handle. The result is an unbreakable hammer when correctly used.



Non-taxing, fatigue-free working

## UNBEATABLE PRICE-PERFORMANCE RATIO

- > since the hammer is very durable
- > Hammer head and steel tube form a keyed connection. A safety extra!
- > The reinforcing bulge at the transition point from hammer handle to head ensures an even spread of forces throughout the hammer head.

## ERGONOMIC

- > since optimum handle geometry
- > 100 mm longer than the DIN requirement = greater impact power from the same force applied
- > Stud at the end of the handle ensures that proper gripping handle
- > The handle diameter is perfectly adjusted to the geometry of one's hand
- > since low-on-vibration
- > The keyed connection between hammer head and steel tube in the handle is rubber-jacketed. As a result, the rubber absorbs much of the vibration arising on impact.
- > The rubber layer vulcanised on the handle provides an extremely low modulus of elasticity and, in turn, absorbs most of the remaining vibrations.
- > Test findings: Ingenieurbüro für Ergonomie, 67824 Feilbingert: 9 GuStaV has the same positive vibration features as a comparable wooden-shaft hammer.

9 GUSTAV  
SLEDGE HAMMER

with rubber grip and steel tube handle

- > Resilient, practically unbreakable, low-on-vibration hammer
- > Forged hammer head acc. to DIN 1193
- > Head ground and clear varnished
- > Rubber handle reinforced inside with hardened steel tube
- > Hammer head and steel tube form a keyed connection. A safety extra!
- > Vibrations are absorbed by the rubber handle to the same extent as with wooden shafts
- > 900 mm handle length: 100 mm in excess of the DIN requirement - ensures more powerful strikes from the same force applied
- > Resistant to petrol and oil
- > Two serrated gripping zones. Knurled, non-sliding! Equally easy to use with either short or long arms

- > Stud-type handle and ergonomically adapted grip diameter
- > The reinforcing bulge at the transition point from hammer handle to head ensures an even spread of forces in the hammer eye
- > DBGM (= German Utility Patent)

g  
5000| mm |  
900kg  
7.0Code  
2250128No.  
9 GuStaV-5

## 609 H SLEDGE HAMMER ROTBAND-PLUS

- › Forged hammer head DIN 1042
- › Spare handles complete with steel sleeve, tapered collar, fixing plate and wood screw
- › Hickory handle DIN 5112, with additional long and hardened steel sleeve
- › ROTBAND-PLUS handle join, high working safety, long service life, best price-performance ratio



g	l mm	kg	Code	No.
3000	600	3.755	8673220	609 H-3
3000	900	3.880	8673300	609 H-3-90
4000	700	4.940	8673490	609 H-4
4000	900	5.270	8673570	609 H-4-90
5000	800	6.035	8673650	609 H-5
5000	900	6.220	8673730	609 H-5-90
6000	800	7.045	8673810	609 H-6
6000	900	7.200	8674030	609 H-6-90
8000	900	9.185	8674110	609 H-8

## E 609 H SPARE HANDLE ROTBAND-PLUS

- › Hickory handle DIN 5112
- › Steel sleeve, fixing plate, tapered collar and wood screw
- › For all hammer heads according to DIN 1042
- › With this handle, every standard DIN hammer head can be converted to a ROTBAND-PLUS-sledge hammer



l mm	kg	Code	No.	l mm	kg	Code	No.
600	0.770	8681750	E 609 H-3	900	1.082	8740860	E 609 H-5-90
900	0.990	8740510	E 609 H-3-90	800	0.900	8740350	E 609 H-6
700	0.840	8681910	E 609 H-4	900	1.100	8747950	E 609 H-6-90
900	0.840	8740780	E 609 H-4-90	900	1.390	8683610	E 609 H-8
800	1.120	8683530	E 609 H-5				

## 9E+9H SLEDGE HAMMER

- > Forged hammer head DIN 1042
- > With ash (E 9 E) or hickory handle (E 9 H) DIN 5112
- > Delivery incl. set of safety wedges



Ash				
g	l mm	kg	Code	No.
3000	600	3.330	8612000	9 E-3
3000	900	3.450	8809220	9 E-3-90
4000	700	4.365	8612190	9 E-4
5000	800	5.535	8612270	9 E-5
5000	900	5.495	8809650	9 E-5-90
6000	800	6.590	8612350	9 E-6
8000	900	8.650	8612430	9 E-8

Hickory				
g	l mm	kg	Code	No.
3000	600	3.515	8615370	9 H-3
3000	900	3.705	8812360	9 H-3-90
4000	700	4.710	8615450	9 H-4
4000	900	5.040	8812440	9 H-4-90
5000	800	5.760	8615530	9 H-5
5000	900	5.800	8812520	9 H-5-90
6000	800	6.680	8615610	9 H-6
6000	900	6.795	8812600	9 H-6-90
8000	900	8.815	8615880	9 H-8

## E9E+E9H SPARE HANDLE

- > Ash (E 9 E) or hickory (E 9 H)
- > Acc. to DIN 5112
- > Execution -90 = 90 cm handle

Ash				
for hammer	l mm	kg	Code	No.
9-3, 10-3, 17-3, 20-3	600	0.400	8613080	E 9 E-3
9-3, 9-4	900	0.660	8784210	E 9 E-3-90
9-4, 10-4, 17-4, 20-4	700	0.580	8613160	E 9 E-4
9-5, 9-6, 10-5, 10-6, 17-5, 17-6, 20-5, 20-6	800	0.730	8613240	E 9 E-5
9-5, 9-6	900	0.840	8784480	E 9 E-5-90
9-8, 9-10, 17-8, 17-10, 20-8, 20-10	900	1.100	8613400	E 9 E-8

Hickory				
for hammer	l mm	kg	Code	No.
9-3, 10-3, 17-3, 20-3	600	0.400	8616500	E 9 H-3
9-3, 9-4	900	0.790	8786180	E 9 H-3-90
9-4, 10-4, 17-4, 20-4	700	0.630	8616690	E 9 H-4
9-5, 9-6, 10-5, 10-6, 17-5, 17-6, 20-5, 20-6	800	0.810	8616770	E 9 H-5
9-5, 9-6	900	0.700	8786260	E 9 H-5-90
9-8, 9-10, 17-8, 17-10, 20-8, 20-10	900	0.960	8616930	E 9 H-8

## 9F SLEDGE HAMMER

- > Forged hammer head DIN 1042
- > With practically unbreakable fibreglass handle, with secured head



g	l mm	kg	Code	No.
3000	600	3.665	8614130	9 F-3
3000	900	3.955	8820380	9 F-3-90
4000	700	4.930	8614210	9 F-4
4000	900	5.050	8820890	9 F-4-90
5000	800	6.370	8614480	9 F-5
5000	900	6.420	8820970	9 F-5-90
6000	800	7.165	8614560	9 F-6
8000	900	9.280	8614640	9 F-8



## Bricklayer's hammers

### 94 ST BRICKLAYER'S HAMMER

Berlin pattern

- > With steel tube handle and plastic grip
- > Very robust and durable



g	l - mm - l	kg	Code	No.
600	270	0.891	8697240	94 ST

### 93 ST BUILDER'S HATCHET

- > With steel tube handle and plastic grip
- > Very robust and durable



g	l - mm - l	kg	Code	No.
600	300	0.909	8696510	93 ST

## Carpenter's hammers

### 75 GSTM CARPENTER'S HAMMER

- > Head and handle forged in one piece, nearly unbreakable
- > Ergonomic, air-cushioned 2-component handle
- > Optimum impact force - a result of its perfect balance
- > Fatigue-free working due to the new anti-vibration system
- > With straight-through shaft right to the end of the handle
- > With magnetic nail holder



l - mm - l	kg	Code	No.
340	0.873	1576143	75 GSTM

### 75 ST + 75 STM CARPENTER'S HAMMER

- > With steel tube handle and plastic grip
- > 75 ST without magnet
- > 75 STM with magnet
- > Very robust and durable



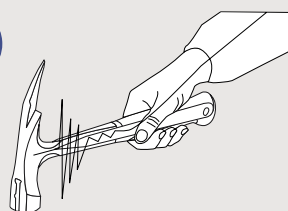
Execution	g	l - mm - l	Handle length	kg	Code	No.
without magnet	600	317	300	0.760	8688920	75 ST
with magnet	600	317	300	0.835	8689220	75 STM

### 75 STKM CARPENTER'S HAMMER WITH MAGNET

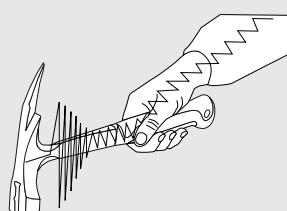
- > With steel tube handle, plastic grip and secured head
- > Very robust and durable



Execution	g	l - mm - l	Handle length	kg	Code	No.
with magnet	600	317	300	0.847	8813090	75 STKM



> The anti-vibration system of the 75 GSTM and 71 GSTM allows safe, powerful hammer blows



> With conventional all-steel hammers, jarring vibrations are transmitted through to the user's arm on every impact

WT 1056 7

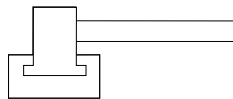
>566



## Hammers miscellaneous

## 18 E PAVING HAMMER SQUARE

- > With welded plate and large vulcanised rubber block
- > With ash handle
- > Spare handle E 18 E



g	mm	kg	Code	No.
360	E 18 E	2.525	8883700	18 E

## E 18 E SPARE HANDLE

- > Acc. to DIN 5111
- > From ash
- > With oval fixing hole



mm	kg	Code	No.
360	0.345	8883890	E 18 E

## 72 H GLAZIERS HAMMER

polished

- > With hickory handle, steel sleeve and safety screw for a durable safe connection of handle and hammer head
- > Spare handle E 72 H



g	mm	kg	Code	No.
100	300	0.212	1541935	72 H-100
	300	0.040	1541730	E 72 H-100

## Scaling hammers

## 677 H SCALING HAMMER ROTBAND-PLUS

- > Forged hammer head
- > Contoured hickory handle DIN 5111 with additional long, hardened steel sleeve
- > The sleeve, tapered collar, fixing plate and wood screw bond the hammer head and wood handle into one unit
- > ROTBAND-PLUS handle join, high working safety, long service life, best price-performance ratio
- > Spare handle E 677 H



g	mm	kg	Code	No.
300	300	0.450	8671950	677 H
	300	0.150	1822357	E 677 H-300

## 77 E SCALING HAMMER

- > With ash handle DIN 5111
- > Spare handle E 4 E



g	mm	kg	Code	No.
330	300	0.390	8690900	77 E-300
	300	0.099	8588030	E 4 E-300

## 77 ST SCALING HAMMER

- > Acc. to DIN 5133
- > With steel tube handle



g		Code	No.
400	0.505	8691390	77 ST-400

## 41 E SCALING HAMMER

- > With ash handle DIN 5111
- > Spare handle E 4 E



g	l mm		Code	No.
500	320	0.640	8665390	41 E-500
	320	0.160	8588380	E 4 E-500

### Recoilless hammers

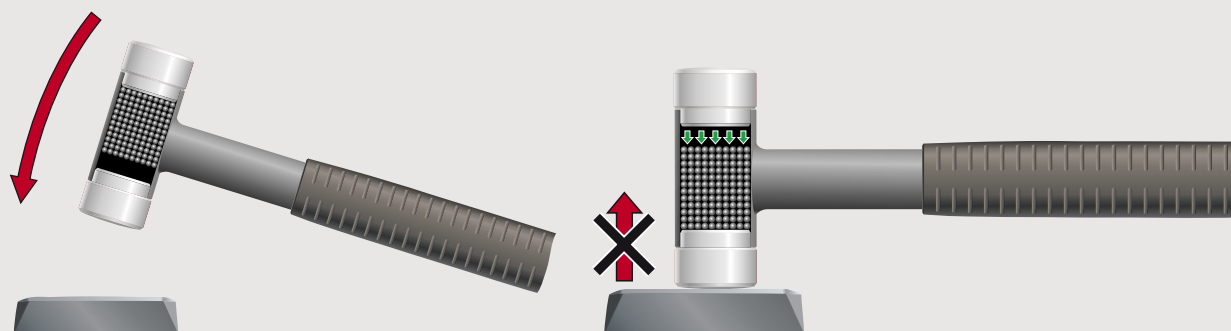
## YOUR ADVANTAGE:

- > Due to the special filling insert in the hammer head a considerably higher impact is made compared to standard engineers' and recoilless hammers
- > Universal use for service and assembly work, with all the advantages of a recoilless hammer with higher impact
- > "Dead blows" with no recoil reduce stress on muscles, nerves and wrists
- > Lower cost due to universal use as an engineer's and recoilless hammer
- > Recoilless hammers protect sensitive surfaces
- > Each blow is more effective than standard safety hammers
- > Available with hickory, tubular steel or fibreglass handles
- > Exchangeable inserts, resistant to breakage or wear, made of modified polyamide

## FUNCTION

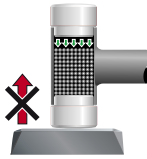


- > The hollow hammer head is filled with steel shot. Small steel balls with a high carbon content.
- > Workpiece "adhesion" and a "fully-felt" strike come from the practically 100% pulse transfer onto the workpiece.
- > The impact (colloquial term for pulse) results principally from the kinetic energy of the fine-grained steel shot.
- > The hammer head mass is slight compared to steel shot.
- > That is why the counter pulse triggered by the hammer head is not felt.
- > Bouncing blows are avoided.
- > Goes easy on one's joints and tendons.



## 248 H RECOILLESS HAMMER

- > With hickory handle
- > Splinter-proof, shatter-proof and wear-resistant polyamide heads, 75 Shore D, tested to -20° C
- > Powder-coated with silver hammer-effect enamel



Ø mm	l mm	kg	Code	No.
25	305	0.300	8728220	248 H-25
30	330	0.470	8868230	248 H-30
35	335	0.590	8868310	248 H-35
40	360	0.730	8868580	248 H-40
45	365	0.870	8868660	248 H-45
50	370	1.020	8868740	248 H-50
60	370	1.650	8868820	248 H-60
70	370	2.330	8728300	248 H-70
80	880	4.270	8728490	248 H-80
100	1000	6.935	8728570	248 H-100

## E 248 H SPARE HANDLE HICKORY

l mm	kg	Code	No.
280	0.062	8739690	E 248 H-25
300	0.120	8739770	E 248 H-30-35
320	0.140	8739850	E 248 H-40-45
320	0.180	8739930	E 248 H-50
310	0.210	8740000	E 248 H-60-70
800	0.680	8740190	E 248 H-80
900	1.100	8740270	E 248 H-100

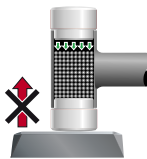
## E 248 POLYAMIDE SPARE HEAD (PIECE)

- > Splinter-proof, shatter-proof and wear-resistant polyamide, 75 Shore D, tested to -20° C

Ø mm	kg	Code	No.
20	0.010	8747790	E 248-20
25	0.010	8747870	E 248-25
30	0.015	8830260	E 248-30
35	0.021	8830340	E 248-35
40	0.031	8830420	E 248-40
45	0.040	8829920	E 248-45
50	0.050	8830500	E 248-50
60	0.090	8830690	E 248-60
70	0.130	8748410	E 248-70
80	0.190	8748680	E 248-80
100	0.350	8748760	E 248-100

## 248 F RECOILLESS HAMMER

- > Nearly unbreakable fibreglass handle with handy plastic grip and secured head
- > Splinter-proof, shatter-proof and wear-resistant polyamide heads, 75 Shore D, tested to -20° C
- > Powder-coated with silver hammer-effect enamel



Ø mm	l mm	kg	Code	No.
25	290	0.400	8724310	248 F-25
30	305	0.550	8867690	248 F-30
35	310	0.730	8867770	248 F-35
40	315	0.780	8867850	248 F-40
45	320	0.940	8867930	248 F-45
50	325	1.120	8868070	248 F-50
60	335	1.680	8868150	248 F-60

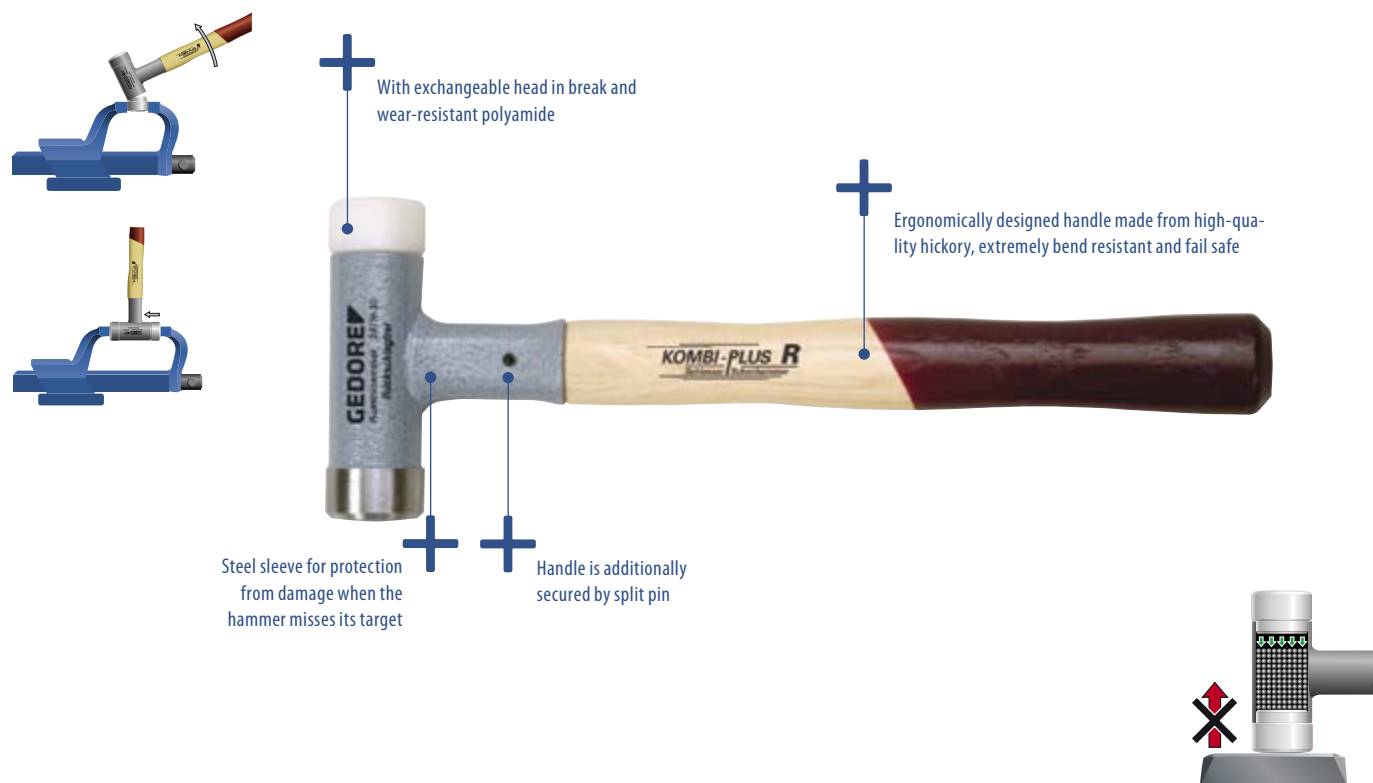
## 248 ST RECOILLESS HAMMER

- > With very robust and durable steel tube handle
- > Splinter-proof, shatter-proof and wear-resistant polyamide heads, 75 Shore D, tested to -20° C
- > Powder-coated with silver hammer-effect enamel



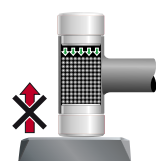
Ø mm	l mm	kg	Code	No.
25	270	0.440	8724070	248 ST-25
30	290	0.600	8828950	248 ST-30
35	295	0.700	8829090	248 ST-35
40	300	0.800	8829170	248 ST-40
45	305	0.950	8829410	248 ST-45
50	310	1.005	8829250	248 ST-50
60	335	1.800	8829330	248 ST-60
70	335	2.430	8724150	248 ST-70

# KOMBI-PLUS R



## 247 H COMBINATION HAMMER KOMBI-PLUS R

- > Reduced expense due to versatile use as an engineer's and recoilless hammer
- > Universal use for service and assembly work
- > With all advantages of a recoilless hammer with higher impact
- > Less energy necessary, easier working
- > With exchangeable splinter-proof, shatter-proof and wear-resistant polyamide head (E 247), 75 Shore D, tested to -20 °C
- > With hickory handle (E 247 H)
- > DBGM (German utility patent)



Ø mm	l mm	kg	Code	No.
30	305	0.460	1603299	247 H-30
35	310	0.690	1603396	247 H-35
40	330	0.840	1687883	247 H-40

## E 247 H SPARE HANDLE HICKORY KOMBI-PLUS R

- > Ergonomically designed handle made from high-quality hickory
- > Extremely bend resistant and fail safe

l mm	kg	Code	No.
270	0.100	1605313	E 247 H-30
270	0.120	1630709	E 247 H-35
290	0.126	1688014	E 247 H-40

## E 247 POLYAMIDE SPARE HEAD (PIECE) KOMBI-PLUS R

- > Splinter-proof, shatter-proof and wear-resistant polyamide, 75 Shore D, tested to -20 °C

Ø mm	kg	Code	No.
30	0.021	1605305	E 247-30
35	0.034	1605380	E 247-35
40	0.040	1688022	E 247-40

## Safety hammers

### 224 E PLASTIC HAMMER

- > With exchangeable heads made from yellow shatter-proof cellulose acetate
- > With ash handle
- > 65 Shore D



Ø mm	l mm	Spare handle	kg	Code	No.
22	250	E 224 E-22	0.157	8821270	224 E-22
27	270	E 224 E-27	0.242	8821350	224 E-27
32	280	E 224 E-32	0.365	8821430	224 E-32
35	290	E 224 E-35	0.445	8821510	224 E-35
40	320	E 224 E-40	0.600	8821780	224 E-40
50	340	E 224 E-50	0.913	8821860	224 E-50
60	380	E 224 E-60	1.392	8821940	224 E-60

### 225 E NYLON HAMMER

- > With exchangeable heads made from impact-resistant nylon
- > With ash handle
- > 60 Shore D



Ø mm	l mm	kg	Code	No.
22	250	0.160	8805310	225 E-22
27	270	0.250	8805580	225 E-27
32	280	0.350	8805660	225 E-32
35	290	0.420	8805740	225 E-35
40	320	0.580	8805820	225 E-40
50	340	0.900	8805900	225 E-50
60	380	1.340	8806040	225 E-60

### E 224 PLASTIC SPARE HEAD

- > From shatter-proof cellulose acetate
- > 65 Shore D

Ø mm	kg	Code	No.
22	0.005	8822590	E 224-22
27	0.015	8822670	E 224-27
32	0.025	8822750	E 224-32
35	0.030	8822830	E 224-35
40	0.040	8822910	E 224-40
50	0.070	8823050	E 224-50
60	0.110	8823130	E 224-60

### E 224 E SPARE HANDLE ASH

for no. 224 E + 225 E

l mm	kg	Code	No.
250	0.060	8823210	E 224 E-22
270	0.060	8823480	E 224 E-27
280	0.080	8823560	E 224 E-32
290	0.060	8823640	E 224 E-35
320	0.100	8823720	E 224 E-40
340	0.100	8824290	E 224 E-50
380	0.115	8824370	E 224 E-60

### E 225 NYLON SPARE HEAD

- > From impact-resistant nylon
- > 60 Shore D

Ø mm	kg	Code	No.
22	0.005	8814220	E 225-22
27	0.010	8814300	E 225-27
32	0.015	8814490	E 225-32
35	0.025	8814570	E 225-35
40	0.030	8814650	E 225-40
50	0.055	8814730	E 225-50
60	0.085	8814810	E 225-60

## 226 E RUBBER MALLET

hard

- > DIN 5128-90, 90 Shore A
- > With two flat surfaces
- > **2 A** with one curved and one flat surface
- > With ash handle



Ø mm	h mm	l mm	kg	Code	No.
40	80	260	0.210	8825500	226 E-0
55	90	320	0.370	8825690	226 E-1
65	115	340	0.630	8825770	226 E-2
65	115	340	0.578	8825850	226 E-2 A
75	130	380	0.990	8825930	226 E-3
90	140	380	1.150	8826070	226 E-4

## 227 E RUBBER MALLET

soft

- > DIN 5128-60, 60 Shore A
- > With two flat surfaces
- > With ash handle



Ø mm	h mm	l mm	kg	Code	No.
55	90	320	0.320	8826740	227 E-1
65	115	340	0.540	8826820	227 E-2
75	130	380	0.770	8827040	227 E-3
90	140	380	1.050	8827120	227 E-4

## E 226 E SPARE HANDLE ASH

for no. 226 E + 227 E

l mm	kg	Code	No.
260	0.043	8826230	E 226 E-0
320	0.045	8826310	E 226 E-1
340	0.100	8826580	E 226 E-2

l mm	kg	Code	No.
380	0.130	8827200	E 226 E-3
380	0.170	8827390	E 226 E-4

## Wooden / Copper / Lead hammers

## 228 WOODEN MALLET

- > Made from white beech wood
- > Acc. to DIN 7462 A



Ø mm	l mm	kg	Code	No.
70	340	0.470	8828280	228-70

## 229 WOODEN MALLET

- > Head made from white beech wood with pressed steel holder
- > With oval ash handle
- > Acc. to DIN 7462 B



Ø mm	l mm	kg	Code	No.
60	310	0.340	8601230	229-60
70	320	0.610	8601310	229-70



## 21 F LIGHT METAL HAMMER

- > Cylindrical pattern
- > Nearly unbreakable fibreglass handle with plastic grip



Ø mm	g	l mm	kg	Code	No.
40	250	300	0.440	2015110	21 F-250
45	500	320	0.710	2015129	21 F-500
60	1000	360	1.250	2015137	21 F-1000
70	1500	400	1.790	2015145	21 F-1500

## 223 H LEAD HAMMER

- > Barrel shape, with end-to-end split pin
- > With hickory handle DIN 5111
- > Spare handle E 4 H



g	l mm	kg	Code	No.
1000	310	1.160	8820460	223 H-1000
1500	350	1.840	8820540	223 H-1500

l mm	kg	Code	No.
310	0.120	8591760	E 4 H-400
350	0.210	8592060	E 4 H-800

## 22 H COPPER HAMMER

- > Club shape
- > Forged hammer head
- > With hickory handle DIN 5111
- > Spare handle E 4 H



g	l mm	kg	Code	No.
250	280	0.316	1583999	22 H-250
500	310	0.715	1584006	22 H-500
750	330	1.050	8867260	22 H-750
1000	350	1.333	8867340	22 H-1000
1500	360	1.933	8867420	22 H-1500
2000	400	2.341	8867500	22 H-2000

l mm	kg	Code	No.
280	0.085	8591410	E 4 H-200
310	0.120	8591760	E 4 H-400
330	0.150	8591920	E 4 H-600
350	0.210	8592060	E 4 H-800
360	0.225	8592140	E 4 H-1000
400	0.280	8592300	E 4 H-2000

## 622 H COPPER HAMMER ROT BAND-PLUS

- > Club shape
- > With hickory handle DIN 5111, with additional long hardened handle protective steel sleeve
- > Spare handle E 600 H / E 609 H
- > The sleeve, tapered collar, fixing plate and wood screw bond the hammer head and wood handle into one unit
- > ROTBAND-PLUS handle join, high working safety, long service life, best price-performance ratio
- > Also available in a heavy 5 kg version



g	l mm	kg	Code	No.
750	350	1.120	8672410	622 H-750
1000	360	1.468	8672680	622 H-1000
1500	380	2.075	8672760	622 H-1500
2000	400	2.300	8672840	622 H-2000
5000	800	6.150	1985094	622 H-5

l mm	kg	Code	No.
330	0.234	8596560	E 600 H-600
350	0.296	8596640	E 600 H-800
360	0.315	8597880	E 600 H-1000
400	0.442	8599070	E 600 H-2000
800	1.120	8683530	E 609 H-5



## Forging Tools

### 37 E COLD CHISEL HAMMER

- > For separating cold forgings
- > With ash handle
- > Spare handle E 37 E



↔ mm ↔	g	kg	Code	No.
600	1500	1.810	8663850	37 E-1500
600		0.270	8663930	E 37 E-1500

### 38 E HOT CHISEL HAMMER

- > For separating warm forge pieces
- > With ash handle
- > Spare handle E 37 E



↔ mm ↔	g	kg	Code	No.
600	1500	1.760	8664310	38 E-1500
600		0.270	8663930	E 37 E-1500

### 56 E PUNCH HAMMER

- > With ash handle
- > Spare handle E 37 E
- > Can be supplied with rebound-dampened tubular steel handle



∅ mm	↔ mm ↔	g	kg	Code	No.
10	600	850	1.010	8679500	56 E-10
15	600	1000	1.480	8679690	56 E-15
20	600	1470	1.770	8679770	56 E-20

∅ mm	↔ mm ↔	g	kg	Code	No.
	600		0.270	8663930	E 37 E-1500

## BLACKSMITH'S TONGS



## Striking Tools

### WHAT IS SO SPECIAL ABOUT GEDORE STRIKING TOOLS?

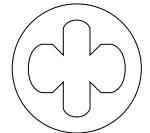


- > The striking thing about GEDORE striking tools is the 45CrMoV7 material used - one which has a 30 % higher strength (under the same hardness) than the usual DIN 59CrV4 material. This very much distinguishes GEDORE striking tools from the products of its competitors. This is very true indeed for nail lifters.
- > The material (45CrMoV7) used by GEDORE is a pure air-hardening steel which hardens at a temperature of about 850 °C in still air. This material features both a high level of stability and enormous toughness. Tools cannot break even under the hardest of working conditions.
- > GEDORE pin punches always have a minus tolerance. This rules out any jamming in the drill hole.
- > All tools are fully hardened over their entire length. Tools cannot break even under the hardest of working conditions.
- > The hammer heads of our tools are electro-inductively and hence homogeneously tempered. In this way, maximum stability is achieved and splintering avoided.
- > The head shape of the GEDORE striking tools is optimally adapted to the radius of the hammer face.

## Chisels

### 108 UNI PROTECTIVE HAND GUARD

- > Made from PVC
- > Improved protective plate offers highest safety for the hand against impacts
- > Ergonomic design
- > Avoids injuries of the hand
- > No rolling away (elliptical-shaped)
- > Jarring blows do not move into the hand
- > No fatigue of the hand - optimum hold
- > All chisels from 250 mm length can be supplied with universal protective hand guard (HS)
- > DBGm (German utility patent)

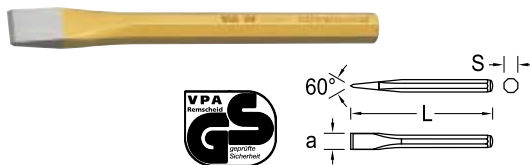


oval	octagonal	kg	Code	No.
<b>20 x 12</b>	14	0.182	8658500	108 UNI
<b>23 x 13</b>	16			
<b>26 x 13</b>	18			
<b>26 x 7</b>	20			

### 97 FLAT COLD CHISEL

octagonal

- > Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- > Carefully hardened and tempered along the full length
- > Striking heads inductively tempered
- > Working edge polished and clear varnished



L	a	s	kg	Code	No.
<b>125</b>	12	10	0.069	8703820	97-125
<b>150</b>	16	12	0.130	8703900	97-150
<b>175</b>	20	16	0.270	8704040	97-175
<b>200</b>	22	18	0.380	8704120	97-200
<b>250</b>	24	20	0.406	2004666	97-250

### 95 FLAT COLD CHISEL

flat oval

- > Acc. to DIN 6453
- > Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- > Carefully hardened and tempered along the full length
- > Striking heads inductively tempered
- > Working edge polished and clear varnished
- \* not standardised



L	a	b	h	kg	Code	No.
<b>100</b>	15	14	9	0.075	8698560	95-100
<b>125</b>	15	14	9	0.100	8698640	95-125
<b>150</b>	18	17	11	0.190	8698720	95-150
<b>175</b>	21	20	12	0.280	8698800	95-175
<b>200</b>	24	23	13	0.390	8698990	95-200
<b>225</b>	*	24	13	0.460	8699610	95-225
<b>250</b>		25	13	0.500	8699020	95-253
<b>250</b>	*	28	13	0.570	8699100	95-250
<b>300</b>		26	13	0.604	8699290	95-303
<b>300</b>	*	30	13	0.710	8699370	95-300
<b>400</b>	*	30	13	0.950	8699450	95-400
<b>500</b>	*	30	13	1.160	8699530	95-500

1500 ES-350

&gt;103



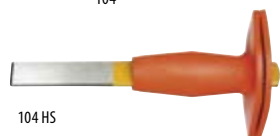
## 104 SPLITTING CHISEL

flat

- > Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- > Forged
- > Carefully hardened and tempered along the full length
- > Striking heads inductively tempered
- > Working edge polished and clear varnished
- > 104 HS with protective hand guard 108 UNI
- > 104 P with plastic grip



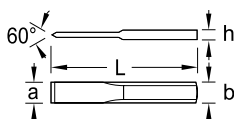
104



104 HS



104 P

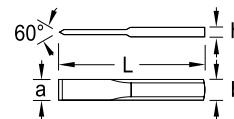


L	a	b	h	kg	Code	No.
240	26	26	7	0.260	8723850	104
240	26	26	7	0.290	8724230	104 P
240	26	26	7	0.400	8723930	104 HS

## 2104 SPLITTING CHISEL

extra flat

- > Chrome-vanadium steel
- > Carefully hardened and tempered along the full length
- > Striking heads inductively tempered
- > Working edges polished and clear varnished

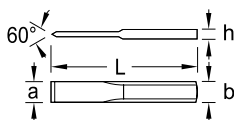


L	a	b	h	kg	Code	No.
240	26	26	4	0.198	8911420	2104

## 103 BRICK CUTTING CHISEL

flat oval

- > With broad blade to chisel joints into walls, plaster, tiles, etc.
- > Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- > Carefully hardened and tempered along the full length
- > Striking heads inductively tempered

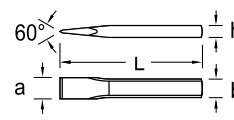


L	a	b	h	kg	Code	No.
250	50	26	13	0.532	8723420	103-50
250	60	26	13	0.557	8723500	103-60
250	80	26	13	0.558	8723690	103-80

## 109 BRICKLAYER'S CHISEL

flat oval

- > Acc. to DIN 7254 Form A
- > Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- > Carefully hardened and tempered along the full length
- > Striking heads inductively tempered
- > Working edge polished and clear varnished

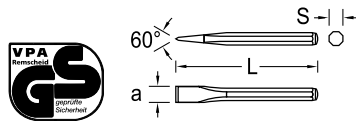


L	a	b	h	kg	Code	No.
200	26	20	12	0.320	8728650	109-200
250	26	20	12	0.400	8728730	109-250
300	29	23	13	0.610	8728810	109-300
350	29	23	13	0.710	8729030	109-350
400	29	23	13	0.830	8729110	109-400

# 110 BRICKLAYER'S CHISEL

octagonal

- > Acc. to DIN 7254 Form B
- > Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- > Carefully hardened and tempered along the full length
- > Striking heads inductively tempered
- > Working edge polished and clear varnished
- \* not standardised

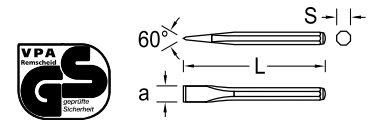


L	a	s	kg	Code	No.
200	23	16	0.300	8731280	110-216
250	23	16	0.390	8731440	110-256
300	*	23	0.460	8731600	110-316
300		26	0.600	8731790	110-318
350		26	0.700	8731870	110-358
400	*	26	0.810	8731950	110-418
400		30	0.990	8732090	110-420

# 110 HS BRICKLAYER'S CHISEL

octagonal

- > Acc. to DIN 7254 Form B
- > With protective hand guard 108 UNI
- > Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- > Carefully hardened and tempered along the full length
- > Striking heads inductively tempered
- > Working edge polished and clear varnished

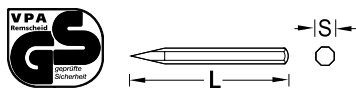


L	a	s	kg	Code	No.
250	23	16	0.510	8732680	110 HS-256
300	26	18	0.720	8733140	110 HS-318

# 111 POINT CHISEL

octagonal

- > Acc. to DIN 7256
- > Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- > Carefully hardened and tempered along the full length
- > Striking heads inductively tempered
- > Working edge polished and clear varnished, free of burrs

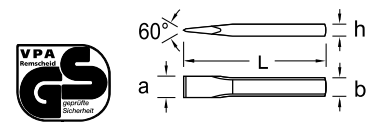


L	s	kg	Code	No.
200	16	0.290	8741080	111-216
250	16	0.370	8741240	111-256
300	16	0.444	8741400	111-316
300	18	0.576	8741590	111-318
350	18	0.670	8741670	111-358
400	18	0.775	8741750	111-418

# 112 ELECTRICIANS' CHISEL

square

- > Chrome-vanadium steel
- > Carefully hardened and tempered along the full length
- > Striking heads inductively tempered
- > Working edge polished and clear varnished

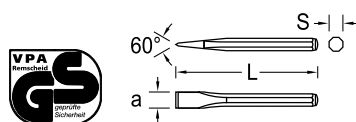


L	a	b	kg	Code	No.
200	6	6	0.054	8744500	112-2006
200	8	6	0.054	8744690	112-2008
200	10	7	0.073	8744770	112-2100
250	8	6	0.068	8744930	112-2508
250	10	7	0.091	8745070	112-2510
250	12	8	0.119	8745150	112-2512
300	15	10	0.227	8745310	112-3000

# 112 A ELECTRICIANS' CHISEL

octagonal

- > Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- > Carefully hardened and tempered along the full length
- > Striking heads inductively tempered
- > Working edge polished and clear varnished



L	a	s	kg	Code	No.
250	12	10	0.152	8745900	112 A-250
300	15	12	0.264	8746040	112 A-300

# 112 S ELECTRICIANS' SPLITTING CHISEL

- > Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- > Carefully hardened and tempered along the full length
- > Striking heads inductively tempered
- > Working edge polished and clear varnished



L	a	b	kg	Code	No.
200	26.8	46	0.228	8746550	112 S

# 96 CROSS-CUT CHISEL

flat oval

- > Acc. to DIN 6451
- > Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- > Carefully hardened and tempered along the full length
- > Striking heads inductively tempered
- > Working edge polished and clear varnished

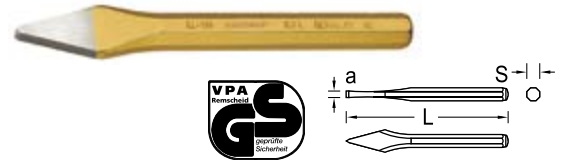


L	a	b	h	kg	Code	No.
125	5	14	9	0.098	8702180	96-125
150	6	17	11	0.170	8702260	96-150
175	7	17	11	0.210	8702340	96-175
200	8	20	12	0.290	8702420	96-200
250	9	23	13	0.530	8702500	96-250

# 98 CROSS-CUT CHISEL

octagonal

- > Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- > Carefully hardened and tempered along the full length
- > Striking heads inductively tempered
- > Working edge polished and clear varnished

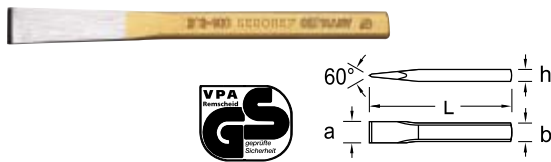


L	a	s	kg	Code	No.
125	5	10	0.066	8704630	98-125

# 202 TILE CHISEL

flat

- > Chrome-vanadium steel 59CrV4
- > Carefully hardened and tempered along the full length
- > Striking heads inductively tempered
- > Working edge polished and clear varnished

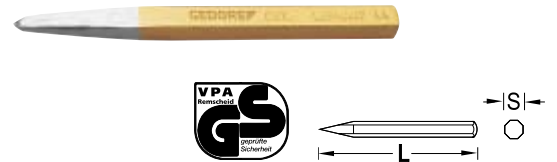


L	a	b	kg	Code	No.
100	10	7	0.033	8879430	202-100

# 203 TILE CHISEL

square, pointed

- > Chrome-vanadium steel 59CrV4
- > Driving point polished and clear varnished

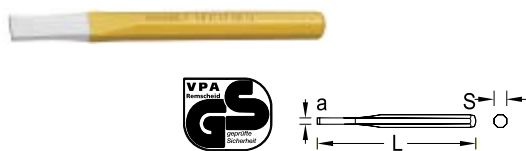


L	s	kg	Code	No.
100	7	0.032	8880280	203-100

# 128 PARING CHISEL

octagonal

- > Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- > Carefully hardened and tempered along the full length
- > Striking head inductively tempered
- > Working edge polished and clear varnished



L	a	s	kg	Code	No.
120	2	10	0.070	8775650	128-2

# 129 GROOVING CHISEL

octagonal

- > Acc. to DIN 6455
- > Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- > Carefully hardened and tempered along the full length
- > Striking head inductively tempered
- > Working edge polished and clear varnished



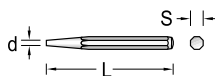
L	a	s	kg	Code	No.
150	3	10	0.070	8776460	129-3

## Drift / Centre / Pin Punches

### 99 DRIFT PUNCH

octagonal

- > Acc. to DIN 6458
- > Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- > Carefully hardened and tempered along the full length
- > Striking heads inductively tempered
- > Working edge polished and clear varnished
- > Special types or sizes on request
- \* not standardised

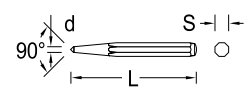


d	L	s	kg	Code	No.
1	120	10	0.060	8708700	99 10-1
2	120	10	0.061	8708970	99 10-2
3	120	10	0.063	8709190	99 10-3
4	120	10	0.065	8709350	99 10-4
5	120	10	0.063	8709510	99 10-5
3	120	12	0.088	8710950	99 12-3
4	120	12	0.086	8711170	99 12-4
5	120	12	0.091	8711330	99 12-5
6	120	12	0.094	8711410	99 12-6
7	120	12	0.096	8711680	99 12-7
8	120	12	0.099	8711760	99 12-8
10	*	120	0.103	8711920	99 12-10

### 100 CENTRE PUNCH

octagonal

- > Acc. to DIN 7250
- > Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- > Carefully hardened and tempered along the full length
- > Striking heads inductively tempered
- > Working edge polished and clear varnished
- \* not standardised



d	L	s	kg	Code	No.
4	120	10	0.063	8721050	100-10
5	120	12	0.091	8721130	100-12
5	150	12	0.119	8721210	100-15
8	*	150	0.216	8721480	100-16

922

>565



1500 CT1-350

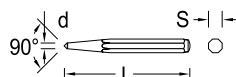
>111



### 100 A CENTRE PUNCH

octagonal, with carbide tip

- > Chrome-molybdenum-vanadium air hardening steel 45CrMoV7



L	s	d	kg	Code	No.
120	10	4	0.063	8721720	100 A-10
130	12	4	0.089	1568396	100 A-12

### 101 AUTOMATIC CENTRE PUNCH

with tip

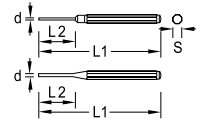
- > For one hand operation
- > With spring mechanism
- > Impact power can be set by a screw thread
- > With hand protection for comfortable and safe working
- > Spare tip E 101



L	s	d	kg	Code	No.
145	16	4	0.145	8722880	101
		4	0.010	8870800	E 101

# 119 PIN PUNCH

octagonal



- > Acc. to DIN 6450
- > Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- > Carefully hardened and tempered along the full length
- > Striking heads inductively tempered
- > Working edge polished and clear varnished
- > No. 119-175 with pilot
- > Special types or sizes on request \* not standardised

d	L <sub>1</sub>	L <sub>2</sub>	s		Code	No.
1.5	*	110	30	8	0.061	2004658 119-1,5
2.0		150	30	10	0.070	8758640 119-2
2.5	*	150	30	10	0.069	8758720 119-2,5
3.0		150	40	10	0.071	8758800 119-3
3.5	*	150	40	10	0.072	8758990 119-3,5
4.0		150	50	10	0.061	8759020 119-4
4.5	*	150	50	10	0.065	8856220 119-4,5
5.0		150	50	10	0.068	8759290 119-5

d	L <sub>1</sub>	L <sub>2</sub>	s		Code	No.
6.0		150	50	10	0.073	8759370 119-6
7.0	*	150	50	12	0.103	8759450 119-7
8.0		150	50	12	0.109	8759530 119-8
9.0	*	150	50	12	0.115	8759610 119-9
10.0		150	50	12	0.123	8759880 119-10
12.0		150	50	14	0.170	8759960 119-12
14.0		180	80	16	0.237	8859670 119-14
6.0		175	85	10	0.070	8761350 119-175

# 114 PIN PUNCH

with guide sleeve

- > Driving point made from material 115CrV3, hardened 55 - 59 HRC
- > With movable guide sleeve
- > Shank knurled, fine grinded and polished
- > The guide tip is attached together with the

pushed-forward guide sleeve. At the expelling stage, the flexible sleeve supports the propelling pin and, at the same time, stops the propelling tip breaking off.

\* No. 114-59 with fix guide sleeve



114-09 - 114-39



114-59

d	L		Code	No.
0.9	80	0.006	8755460	114-09
1.4	85	0.012	8755540	114-14
1.8	88	0.012	8755620	114-18
2.4	92	0.018	8755700	114-24
2.8	96	0.020	8755890	114-28
3.4	96	0.026	8755970	114-34
3.9	100	0.026	8756000	114-39
5.9*	100	0.032	8756190	114-59

# 115 PIN PUNCH SET

8 pieces

- > In metal case with lid
- > With movable guide sleeve, no. 114-59 with fix guide sleeve

- > Driving point made from material 115CrV3, hardened 55 - 59 HRC
- > Shank knurled, fine grinded and polished



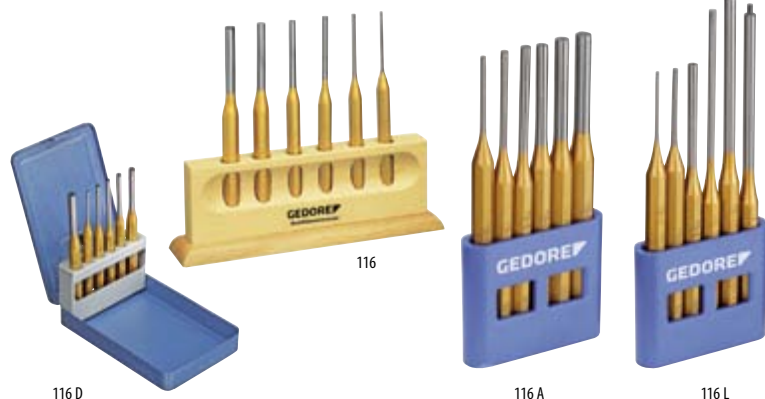
Contents		Code	No.
114-09 -14 -18 -24 -28 -34 -39 -59	0.350	8756780	115

## Sets

# 116 A - 116 L PIN PUNCH SET

6 pieces

- > Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- > Carefully hardened and tempered along the full length
- > Striking heads inductively tempered
- > Working edge polished and clear varnished
- > 116 L = long pattern



Contents	Execution		Code	No.
119-3 -4 -5 -6 -7 -8	wooden stand	0.714	8757240	116
119-3 -4 -5 -6 -7 -8	metal case with lid	0.820	8758050	116 D


Contents	Execution		Code	No.
119-3 -4 -5 -6 -7 -8	PVC holder	0.530	8757670	116 A
119-2 -3 -5 -175 -175-4 -175-6	PVC holder	0.475	8839990	116 L

## 119 L PIN PUNCH SET

6 pieces

- > Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- > Carefully hardened and tempered along the full length
- > Striking heads inductively tempered
- > Working edge polished and clear varnished
- > In PVC holder
- > Long pattern 175 mm




Contents	Execution		Code	No.
119-175-4 175-5 175-6 175-7 175-8 175-10	PVC holder	0.580	8866290	119 L

## 106 - 106 D CHISEL AND PUNCH SET

6 pieces

- > Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- > Carefully hardened and tempered along the full length
- > Striking heads inductively tempered
- > Working edge polished and clear varnished




Contents	Execution		Code	No.
97-125 150 98-125 99 12-3 100-10 119-4	PVC holder	0.525	8725200	106
97-125 150 98-125 99 12-3 100-10 119-4	Metal case with lid	0.805	8725710	106 D

## 113 - 113 D DRIFT PUNCH SET

6 pieces

- > Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- > Carefully hardened and tempered along the full length
- > Striking heads inductively tempered
- > Working edge polished and clear varnished

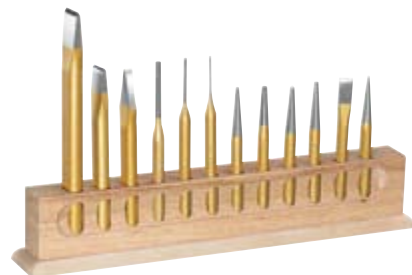



Contents	Execution		Code	No.
99 10-1 2 3 99 12-4 5 100-10	PVC holder	0.460	8753680	113
99 10-1 2 3 99 12-4 5 100-10	metal case with lid	0.755	8754060	113 D

## 107 CHISEL AND PUNCH SET

12 pieces

- > Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- > Carefully hardened and tempered along the full length
- > Striking heads inductively tempered
- > Working edge polished and clear varnished
- > In wooden stand



Contents		Code	No.
95-150 200 96-150 97-125 99 10-2 3 4 5 100-10 119-2 3 5	2.075	8726440	107



various

## 206 TILER'S SETTING TOOL

- > Chrome-vanadium steel 59CrV4
- > Carefully hardened and tempered along the full length
- > Striking heads inductively tempered
- > Working edge polished and clear varnished



↳ mm	■ mm	⚖ kg	Code	No.
150	8	0.070	8880600	206-150

## 90 HS RIVET SETTER

octagonal

- > Chrome-molybdenum-vanadium air hardening steel 45CrMoV7, zinc-plated
- > Carefully hardened and tempered along the full length
- > Striking heads inductively tempered
- > With black protective hand guard for safe comfortable working



L	s	⚖ kg	Code	No.
170	18	0.488	8885830	90 HS-4
170	18	0.488	8886130	90 HS-6

## 208 CARBIDE SCRIBER

hexagonal

- > Chrome-vanadium steel 59CrV4
- > Zinc-plated



↳ mm	■ mm	⚖ kg	Code	No.
150	6	0.040	8881680	208-150

## 126 RIVETTING SETTER

octagonal

- > Acc. to DIN 6434
- > Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- > Working edge polished and clear varnished



for rivet shaft Ø	internal Ø	L	s	⚖ kg	Code	No.
2	2.5	100	10	0.063	8774090	126-2
3	3.5	100	10	0.061	8774170	126-3
4	4.5	100	12	0.081	8774250	126-4
5	6.0	110	12	0.132	8774330	126-5
6	7.0	110	14	0.130	8774410	126-6

## 127 RIVETTING SNAP DIE

octagonal

- > Acc. to DIN 6435
- > Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- > Working edge polished and clear varnished



for rivet shaft Ø	internal Ø	L	s	⚖ kg	Code	No.
2	3.5	100	10	0.062	8775060	127-2
3	5.2	100	10	0.063	8775140	127-3
4	7.0	100	12	0.090	8775220	127-4
5	8.8	110	14	0.133	8775300	127-5
6	10.5	110	16	0.173	8775490	127-6

## 125 B SET OF RIVETTING SETTERS AND SNAP DIES

6 pieces

- > Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- > Hardened in accordance with the technical specifications for striking tools to DIN 7255
- > Working edge polished and clear varnished
- > In PVC holder

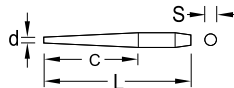



Contents	⚖ kg	Code	No.
126-2 3 4	0.470	8773600	125 B
127-2 3 4			

## Bending bars / Prybars

135  
SETTING PUNCH

- > Chrome-vanadium steel 59CrV4
- > Hardened and tempered along the full length
- > Special sizes available on request

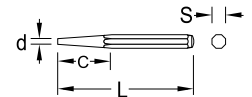



d	L	c	s		Code	No.
5	180	110	12	0.110	8782350	135-5
6	200	120	13	0.150	8782430	135-6
8	200	130	16	0.225	8782510	135-8
9	200	130	20	0.340	8782780	135-9
10	230	140	22	0.490	8782860	135-10
11	250	155	25	0.620	8782940	135-11
12	280	170	27	0.890	8783080	135-12
14	315	190	30	1.250	8783160	135-14
15	340	200	32	1.570	8783240	135-15
16	380	220	36	2.190	8783320	135-16

136-500  
TAPER PUNCH

octagonal

- > Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- > Carefully hardened and tempered along the full length

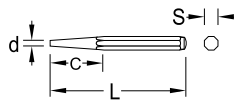



L	c	d	s		Code	No.
500	170	5	20	1.050	8783400	136-500

137-600  
BENDING BAR

octagonal

- > Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- > Carefully hardened and tempered along the full length





L	c	d	s		Code	No.
600	120	5	20	1.305	8783590	137-600

138-400  
BENDING TOOL

hexagon

- > Chrome-vanadium air hardening steel 59CrV4, zinc-plated
- > Carefully hardened and tempered along the full length




L mm	mm 	s		Code	No.
400	23	17	0.645	1396609	138-400

139-400  
PRYBAR

- > Chrome-vanadium-steel 31CrV3, zinc-plated





L mm	Ø		Code	No.
400	14	0.480	1396595	139-400

140-380  
UNIVERSAL PRYBAR

- > Made from special steel, hardened
- > Cutting edge polished
- > With three nail pullers



L mm	mm 		Code	No.
380	42	0.650	8894310	140-380

# 141 PRYBAR

octagonal

- > Chrome-vanadium steel 59CrV4, chromated
- > Hardened along the full length
- > With plastic handle
- > Very robust and resilient



l mm r	mm	s	kg	Code	No.
300	15	12	0.230	1471945	141-300
390	15	12	0.390	1471937	141-390
600	15	12	0.785	1471929	141-600

# S 141-3 PRYBAR SET

3 pieces

- > Chrome-vanadium steel 59CrV4, chromated
- > Hardened along the full length
- > With plastic handle
- > Very robust and resilient
- > Packed in cardboard box



Contents	kg	Code	No.
141-300 390 600	1.474	1525476	S 141-3

# 142-430 ALUMINIUM PRYBAR

- > Forged of high-class aluminium
- > Extremely light and very robust
- > For universal use - with pry and tip
- > Sensitive parts can be levered gently



l mm r	mm	kg	Code	No.
430	26	0.405	1859188	142-430

## Nail lifter / Crowbars

# 120 WRECKING BAR

hexagon

- > Made from special steel
- > Working edges carefully hardened and tempered



l mm r	hexagonal	kg	Code	No.
350	18	0.840	8769330	120-350
500	18	1.150	8769410	120-500
600	18	1.355	8769680	120-600
700	18	1.550	8769760	120-700
800	18	1.770	8769840	120-800
1000	18	2.175	8769920	120-1000

# 122 CROWBAR

- > With straight cutting edge and point



l mm r	Ø	kg	Code	No.
1000	30	5.2	8770500	122-1000
1500	30	8.2	8770770	122-1500

# 123 CROWBAR

- > With curved cutting edge and point



l mm r	Ø	kg	Code	No.
1000	30	5.3	8771230	123-1000
1500	30	8.2	8771580	123-1500

# 124 CROWBAR

- > With claw and point



l mm r	Ø	kg	Code	No.
1000	30	5.2	8772040	124-1000
1500	30	8.2	8772200	124-1500

# 151 CROWBAR

- > Heavy-duty model
- > With round head and cutting edge



l mm r	Ø	kg	Code	No.
1500	30	8.4	8824880	151-1500



**GEDORE**

No. 407 A

**B-METALL**  
Made in UE

# WORKSHOP SUPPLIES

## AUTOMOTIVE TOOLS

>534



## EQUIPMENT

>551



## FILES, SAWS

>552



## VARIOUS

>553



## PARALLEL VICES

>554



## MEASURING TOOLS

>554



## THREAD WORKINGS

>557



## INDUSTRIAL CUTLERY

>562



## AT WORK

>565



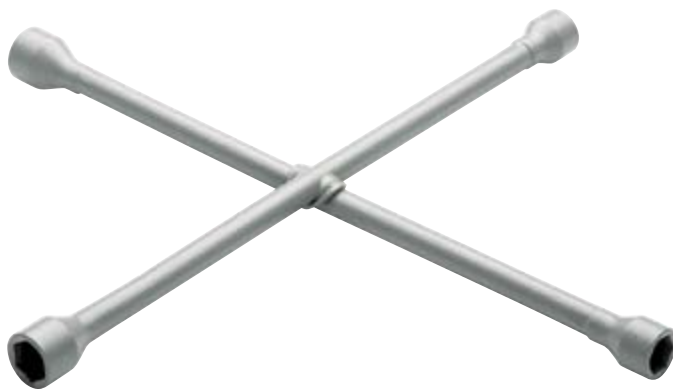
## Tyre fitting / removal

- > For the controlled tightening of wheel nuts or studs, we recommend torque wrenches
- > For truck wheels, we specially recommend the DR-LKW torque wrench



## FOUR-WAY WHEEL WRENCH

- > Hot forged hexagon
- > The collar, typical of GEDORE 4-way wheel wrenches, enlarges the welding area.
- > The positive-fit joint remains solid even under extreme loading..



### 28 CU 4-WAY WHEEL WRENCH FOR SMALL TRUCKS

- > For delivery vans and light trucks, buses and tractors
- > Acc. to DIN 3119, ISO 6788
- > GEDORE vanadium steel 31CrV3
- > GEDORE grey powder-coated
- > Dimensions: 600 x 600 mm

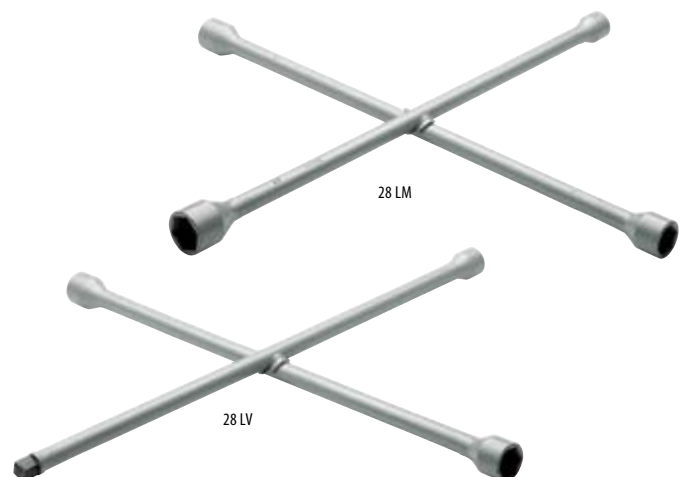


mm	mm	kg	Code	No.
19x24x22x27 (3/4x15/16x7/8x1.1/16")	28,5x32x34,5x38,5	3.155	6228500	28 CU

### 28 LM - LV 4-WAY WHEEL WRENCH FOR TRUCKS



- > For trucks, agricultural machines, tractors and industrial uses
- > Acc. to DIN 3119, ISO 6788
- > GEDORE vanadium steel 31CrV3
- > GEDORE grey powder-coated
- > Dimensions: 750 x 750 mm



mm	mm	kg	Code	No.
24x27x30x32	34,5x38,5x42x45	5.555	6228770	28 LM
24x32x27x3/4" 4kt	34,5x45x38,5x26	5.515	6229150	28 LV

## 28 LR + 28 LRV 4-WAY WHEEL WRENCH FOR TRUCKS

- > For trucks and heavy machines
- > With turned centre, especially sturdy
- > GEDORE vanadium steel 31CrV3, chrome-plated
- > Dimensions: 750 x 750 mm



Ø mm	Ø mm	kg	Code	No.
27x30x32x33	40x44x46x46	6.085	6228930	28 LR
27x30x32x3/4" 4kt	40x44x46x26	5.980	6228420	28 LRV



## 28 PKH 2-WAY WHEEL WRENCH FOR CARS

- > An indispensable tool for all usual car wheel nuts
- > With a protective central reinforcement (DBGM = German utility patent)
- > Practical and strong, with long lever arm, a space-saver in the car boot
- > GEDORE vanadium steel 31CrV3, chrome-plated
- > Dimensions: 410 x 260 mm



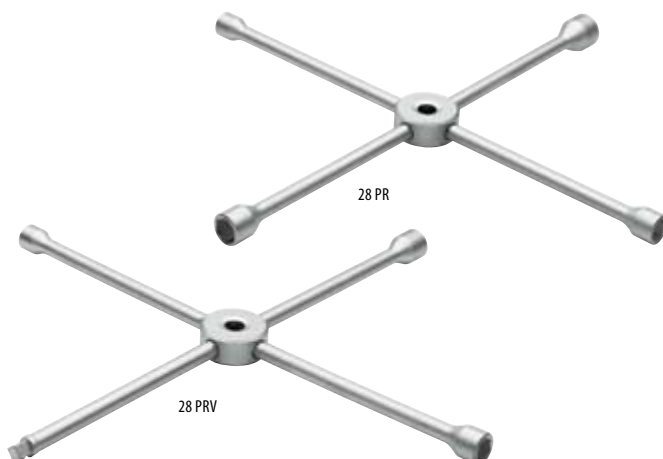
Ø mm	Ø mm	kg	Code	No.
17x19 (3/4")	26x28,5	1.020	6227290	28 PKH



## 28 PR + 28 PRV UNIVERSAL 4-WAY WHEEL WRENCH

for cars and small trucks

- > Acc. to DIN 3119, ISO 6788
- > With solid turned centre, for the car and truck workshop
- > With extra long lever arm and great range of sockets
- > GEDORE vanadium steel 31CrV3, chrome-plated
- > Dimensions: 550 x 550 mm

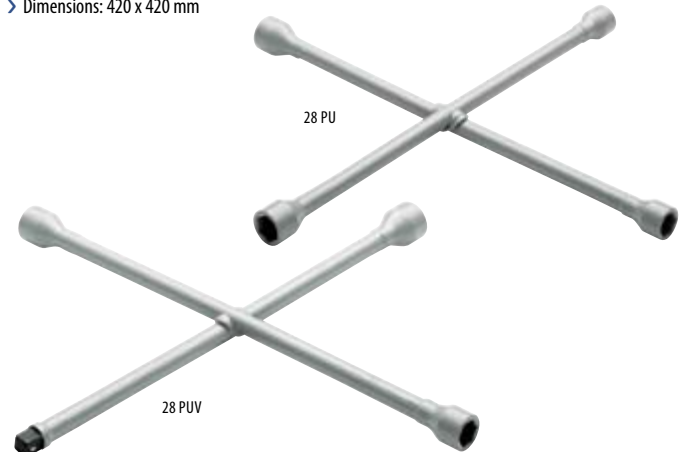


Ø mm	Ø mm	kg	Code	No.
17x19 (3/4")x21x24	26x28,5x30,5x35,5	2.315	6227530	28 PR
17x19 (3/4")x21x1/2" 4kt	26x28,5x30,5x17,5	2.255	6227880	28 PRV



## 28 PU + 28 PUV 4-WAY WHEEL WRENCH FOR CARS

- > For car wheel nuts in metric and inch sizes
- > Acc. to DIN 3119, ISO 6788
- > With protective central reinforcement (DBGM = German utility patent)
- > GEDORE vanadium steel 31CrV3
- > GEDORE grey powder-coated
- > Dimensions: 420 x 420 mm

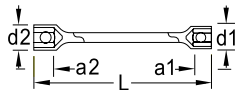


Ø mm	Ø mm	kg	Code	No.
17x19 (3/4")x21x11/16"	26x28,5x30,5x26	1.285	6227610	28 PU
17x19 (3/4")x21x1/2" 4kt	26x28,5x30,5x17,5	1.315	6228260	28 PUV



## 27 WHEEL SOCKET WRENCH FOR TRUCKS

- > With great head depth, for protruding bolts, without tommy bar
- > GEDORE vanadium steel 31CrV3, chrome-plated
- > Please order tommy bar 27 D separately



mm	"AF	L	a <sub>1</sub>	a <sub>2</sub>	d <sub>1</sub>	d <sub>2</sub>	Ø	kg	Code	No.
24 x 27	15/16 x 1.1/16	400	34.5	34.5	36	40	1.148	6225240	27 24x27	
27 x 32		400	34.5	34.5	40	46	1.453	6220010	27 27x32	
28 x 32		400	34.5	34.5	41	46	1.134	6220280	27 28x32	
30 x 32	1.3/16 x 1.1/4	400	34.5	34.5	44	46	1.459	6225910	27 30x32	
30 x 33		400	34.5	34.5	44	47	1.442	6220440	27 30x33	
		630					18	1.260	6227100	27 D

## 8276 BALANCE WEIGHT PLIERS

- > For removing, cutting, and attaching balancing weights
- > GEDORE vanadium steel 31CrV3



mm	inch	kg	Code	No.
250	10	0.386	6739350	8276-250 C

K 19 LS / K 19 LS-004

&gt;238



## 38 TYRE LEVER

- > Profiled pattern, forged from solid stock
- > With protective surfaces for light-alloy wheels
- > GEDORE vanadium steel 31CrV3, chrome-plated



mm	inch	kg	Code	No.
200	8	0.099	6332320	38 8
305	12	0.221	6332400	38 12
400	16	0.405	6332670	38 16
500	20	0.602	6332830	38 20
610	24	0.927	6332910	38 24

## 39 TYRE LEVER

heavy-duty pattern

- > Heavy-duty, offset pattern
- > GEDORE vanadium steel 31CrV3, chrome-plated



mm	inch	kg	Code	No.
610	24	1.365	6333050	39



## Brakes

### 135 BRAKE SPRING PLIERS

- > For drum brakes
- > With special holder and support crown, particularly suitable for glued brake linings
- > GEDORE vanadium steel 31CrV3, chrome-plated



↳ mm ↲	↳ inch ↲	⚖️	Code	No.
330	13	0.389	6405300	135 13
480	19	0.956	6405490	135 19

### 135 BRAKE SPRING PLIERS

heavy-duty pattern

- > For drum brakes
- > With replaceable spring hooks (E-135 20) and hand protectors
- > GEDORE vanadium steel 31CrV3, chrome-plated



↳ mm ↲	↳ inch ↲	⚖️	Code	No.
500	20	1.058	6400180	135 20
		0.016	5400480	E-135 20

### 643 BRAKE CALIPER BRUSH

- > For cleaning all brake calipers
- > With blue plastic handle



↳ mm ↲	Bristle length	⚖️	Code	No.
225	21	0.094	6531440	643

### 8726 BRAKE CALIPER FILE



↳ mm ↲	↳ inch ↲	⚖️	Code	No.
260	10	0.131	6770780	8726

## Oil service

### 298 OIL CAN

- > 298-00 / 298-01 Plastic oil can with sliding brass tube and cap
- > 298-02 simple oil can in plastic



298-00



298-01



298-02

Litre	Pint	⚖️	Code	No.
0.250	1/2	0.979	6390010	298-00
0.125	1/4	0.074	6390280	298-01
0.025	1/16	0.010	6390360	298-02

### 298-04 OIL CAN

- > Strong, cast iron pattern with pump, 300 ml



Litre	Pint	⚖️	Code	No.
0.3	5/8	0.492	6390520	298-04

### 299 DRAIN PLUG WRENCH

- > For square plugs on engine sumps and oil drums, in nine common sizes
- > GEDORE vanadium steel 31CrV3, chrome-plated
- > 5 square sizes: 8.7, 9.5, 10.5, 11.5, 13 mm
- > 4 tapered sizes: 6.8-8.7, 10.5-13, 15.2-18, 16.5-19 mm
- > One screwdriver blade: 5.5 x 18 mm



↳ mm ↲	⚖️	Code	No.
220	0.459	6464580	299

## V-Belts / Filters

## 36 STRAP WRENCH

- > With strong, non-slip fabric strap (E-36), extra wide = 25 mm
- > 36 1-140 made from C45 steel
- > 36 2-200 made from GEDORE vanadium steel 31CrV3
- > Chrome-plated



36 2-200



36 1-140

Ø mm	Ø inch	l mm	mm	kg	Code	No.
140	5.1/2	220	25	0.278	6327320	36 1-140
200	8	285	25	0.578	6327400	36 2-200

## E-36 SPARE STRAP

- > Strong, non-slip fabric strap, extra wide = 25 mm



l mm	mm	kg	Code	No.
480	25	0.062	5327380	E-36 1-140
900	25	0.104	5327460	E-36 2-200

## 36 Z SPECIAL STRAP WRENCH

- > For tightening and counter-holding V-belt pulley wheels
- > Spare strap E-36 Z



l mm	Ø mm	Ø inch	kg	Code	No.
257	160	6	0.379	6320070	36 Z-140

## E-36 Z SPARE STRAP

l mm	kg	Code	No.
257	0.080	1380613	E-36 Z-140

## 37 UNIVERSAL FILTER WRENCH

- > For all usual oil filters and round screwed unions
- > Adjustable metal strap, nickel-plated
- > With handle



mm	l mm (appr.)	kg	Code	No.
80-110	285	0.349	6327670	37

## 37 V UNIVERSAL FILTER WRENCH

- > For all usual oil filters and round screwed unions
- > Adjustable metal strap, nickel-plated
- > With 1/2" square drive for all 1/2" tools



mm	l mm (appr.)	kg	Code	No.
80-110	150	0.265	6327750	37 V

Pistons / Valves

## 654 VALVE GRINDER

- > With automatic reversal of lapping direction
- > For use in hand drills
- > Supplied with suction cups 652-20, -25, -30, -37



∅ mm	l mm	kg	Code	No.
65	135	0.750	6535270	654

## 653 VALVE LAPPING TOOL

- > Hand-held type with suction cup 652-25
- > Beech wood handle



∅ mm	l mm	kg	Code	No.
25	225	0.050	6532680	653

## 652 SPARE RUBBER SUCTION CUP for 653 and 654



∅ mm	l mm	kg	Code	No.
20	38	0.010	6530120	652-20
25	38	0.011	6532410	652-25
30	38	0.012	6530200	652-30
37	38	0.016	6530390	652-37

## 124 PLIERS FOR VALVE SEALS

- > For pulling valve shaft sealing rings and removing valve spring supports
- > For VW Audi, BMW, Mercedes, Opel, Ford, Nissan etc.
- > Gun-metal finish, handles chrome-plated



l mm	l inch	kg	Code	No.
250	10	0.348	6399310	124

## 128 VALVE SPRING COMPRESSOR

- > For overhead valve engines
- > With one pair each of straight and offset hooks
- > Bright nickel-plated



l mm	l inch	mm	inch	kg	Code	No.
290	11.1/2	60-225	2.3/8-9	1.326	6398500	128 2-225
390	15	120-280	4.3/4-11.1/2	3.200	6398690	128 1-280

## 125 PISTON RING COMPRESSOR

- > In special band spring steel, with continuous adjustment
- > With clamping wrench



125 0

125 1 / 125 2

125 3

Ø mm	↳ mm ▶	↳ "inch ▶	⚖ kg	Code	No.
40-75	50	2	0.115	6396720	125 0
57-125	80	3	0.257	6396800	125 1
90-175	80	3	0.294	6396990	125 2
90-175	165	6.1/2	0.548	6397020	125 3

## 126 PISTON RING PLIERS

- > With prism holder for secure fitting of piston rings
- > With adjusting screw
- > Bright nickel-plated



Ø mm	↳ mm ▶	↳ "inch ▶	⚖ kg	Code	No.
30-60	210	8.1/4	0.158	6397100	126 0-60

## 126 PISTON RING PLIERS

- > For securely fitting piston rings
- > Handles blue coated
- > Bright nickel-plated



Ø mm	↳ mm ▶	↳ "inch ▶	⚖ kg	Code	No.
55-100	200	8	0.296	6397370	126 1-100
80-120	240	9.1/2	0.344	6397450	126 2-120
110-160	240	9.1/2	0.402	6397530	126 3-160

## 127 PISTON RING PLIERS

- > With prism holder for safe piston ring spreading
- > In special steel
- > Prism holders hardened
- > Chrome-plated, tips gun-metal finish



Ø mm	↳ mm ▶	↳ "inch ▶	⚖ kg	Code	No.
60-160	220	8.5/8	0.207	6397610	127

## Pistons / Valves

## 132 HOSE CLAMP PLIERS

- > For self-clamping hose clamps
- > Handles chrome-plated



↳ mm ▶	↳ "inch ▶	⚖ kg	Code	No.
220	8.3/4	0.215	6399900	132

## 132-2 HOSE CLAMP PLIERS

- > Rotating v-jaws for spring hose clamps with flat butt ends
- > The pliers allow the clamp to be opened and closed without damaging the hose, even in hard-to-reach areas
- > For use on VAG-vehicles (e.g. VW, Audi, Škoda, Seat)
- > Made from steel sheet, nickel-plated



↳ mm ▶	⚖ kg	Code	No.
207	0.192	1894382	132-2

## 132-3 HOSE CLAMP PLIERS

- > Rigid v-jaws
- > For use on VAG-vehicles (e.g. VW, Audi, Škoda, Seat)
- > Made from steel sheet, nickel-plated



↳ mm	⚖️	Code	No.
195	0.165	1894390	132-3

## 132-4 HOSE CLAMP PLIERS CLIC

- > With revolving locking bolts for CLIC hose clamps
- > To open or close, just turn the plier by 180 degrees
- > The pivotable bolts enable the usage even in hard-to-reach areas
- > CLIC hose clamps are used on rubber and silicone hoses (e.g. automotive industry for fuel-, oil- and cooler-systems)
- > Made from steel sheet, nickel-plated



↳ mm	⚖️	Code	No.
210	0.181	1894404	132-4

## 132 CLIC HOSE CLAMP PLIERS

- > For CLIC-R hose clamps
- > Polished, bright nickel-plated, joint gun-metal finish
- > Forged execution for clamp diameter 5 - 30 mm



↳ mm	↳ inch	⚖️	Code	No.
180	7	0.247	1396714	132 CLIC

## 134 HOSE CLAMP PLIERS

- > With self-adjusting joint, DBGM (= German utility patent)
- > Angled jaw
- > Bright nickel-plated, joint gun-metal finish



↳ mm	↳ inch	⚖️	Code	No.
180	7	0.411	6391330	134

## 134 B HOSE CLAMP PLIERS

- > Bowden-cable operation
- > With self-adjusting joint, DBGM (= German utility patent)
- > Angled jaw
- > Bright nickel-plated, joint gun-metal finish



↳ mm	↳ inch	⚖️	Code	No.
180	7	0.596	6390950	134 B

## 8272 UNIVERSAL PLIERS

- > With adjustable joint and protection against clamping
- > Non-slip handles, slightly angled jaw position
- > In heat-treated steel as per EN 10083





↳ mm	↳ inch	⚖️	Code	No.
165	6	0.189	6738620	8272-165 C
200	8	0.259	6738890	8272-200 C

## Voltage tester

4610  
CAR LIGHT TESTER

- > For testing 6-24 Volt
- > Compact brass model
- > With cable and alligator crimp







Measuring range			Code	No.
6-24 V	125	0.069	6698570	4610

4611  
VOLTAGE TESTER

- > For 6-24 Volt
- > With cable and alligator crimp



mm 	mm 	mm 		Code	No.
3.0	55	115	0.026	6698650	4611

4612  
VOLTAGE TESTER

- > For 3-48 V
- > Use: automobile, utility vehicles
- > LED displays the voltage in the area of 12, 24, 48 V as well as the polarity
- > For work in confined areas
- > TÜV and GS tested, IEC / EN 61010-1 (DIN VDE 0411)
- > Measurements: 145 x 25 x 16mm
- > Protection classification IP40, protection class III



Measuring range		Code	No.
3-48 V	0.120	1881647	4612

4615

&gt;579



VDE 4616

&gt;579




## Lifters

121-2  
SUCTION CUP LIFTER

with 2 cups

- > With suction mechanism and safety locking
- > In ABS, resistant to oil and acids
- > Fixed suction cups
- > Also suitable for transporting slightly textured surfaces
- > Lifting capacity 60 kg



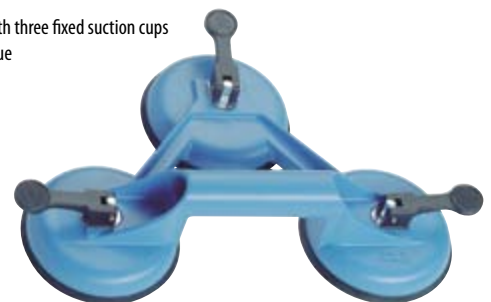
Ø		Code	No.
120	0.580	2979276	121-2


NEW

121-3  
SUCTION CUP LIFTER

with 3 cups

- > Increased lifting safety with three fixed suction cups
- > Aluminium, enamelled blue
- > Lifting capacity 100 kg



Ø		Code	No.
120	1.403	6390790	121-3

## 121 G SUCTION CUP LIFTER

with 2 cups

- > With suction mechanism and safety locking
- > In ABS, resistant to oil and acids
- > Movable suction cups
- > Particularly suitable for curved panes
- > Lifting capacity 45 kg



↳ mm ↲	∅	⚖	Code	No.
390	120	0.642	6391170	121 G

## 121 G-3 SUCTION CUP LIFTER

with 3 cups

- > Three movable suction cups, resistant to oil and acids, in ABS
- > Particularly suitable for curved panes
- > Cups blue colour, handle black aluminium
- > Lifting capacity 100 kg



∅	⚖	Code	No.
120	1.345	6390870	121 G-3

## 640 MINI MAGNETIC LIFTER

- > Flexible thin shaft for the smallest apertures



↳ mm ↲	Diameter of magnet	Ω	⚖	Code	No.
400	3	120	0.024	6530630	640-120
400	4	270	0.025	1785338	640-270



## 640 MAGNETIC LIFTER

- > With flexible shaft and plastic handle
- > Bright nickel-plated



640-500



640-1800

↳ mm ↲	Diameter of magnet	Ω	⚖	Code	No.
460	10.0	500	0.095	6531010	640-500
520	12.0	1800	0.230	6531280	640-1800
520	16.5	3000	0.275	6531360	640-3000



## 641 CLAW GRIPPER

- > With flexible shaft for grasping small parts
- > Also suitable for inserting split pins, dowels, etc. in confined areas
- > Max. gripping capacity 14 mm



↳ mm ↲	∅	⚖	Code	No.
540	7	0.103	6531520	641

## 642 SP MAGNETIC LIFTER

with lamp, mirror and clip

- > For searching and lifting small metal parts in confined areas
- > If necessary, the magnet can be removed
- > Mirror diameter 30 mm



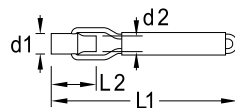
↳ mm ↲	Diameter of magnet	Ω	⚖	Code	No.
500	12	350	0.172	6536750	642 SP

## Spark Plugs

### D 48 SPARK PLUG SOCKET WRENCH



- > Double ended
- > Forged from solid stock
- > With fully pivoting sheet metal covered lever
- > With sheet clip
- > GEDORE vanadium steel 31CrV3, chrome-plated

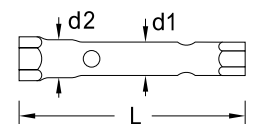


mm	"AF	L <sub>1</sub>	L <sub>2</sub>	d <sub>1</sub>	d <sub>2</sub>	kg	Code	No.
16 x 20,8	5/8 x 13/16	232	56	27.5	21.5	0.233	6360100	D 48

### DS 49 SPARK PLUG SOCKET WRENCH

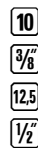


- > With rubber holder and offset bores
- > Forged and hardened, chrome-plated
- > With angled tommy bar No. 49 D Ø 8 mm
- > In seamless precision tubing as per DIN 2391-ST 55, chrome-plated

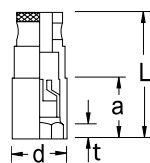


mm	"AF	L	d <sub>1</sub>	d <sub>2</sub>	kg	Code	No.
16 x 20,8	5/8 x 13/16	190	24	25	0.324	6361340	DS 49 R

### 50 - 57 SPARK PLUG SOCKET

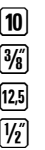


- > With retention spring
- > For use in confined areas, with jointed tools 3/8" or 1/2" square drive or tommy bar Ø 8 mm
- > GEDORE vanadium steel 31CrV3, polished head, chrome-plated



mm	"AF	"	L	t	a	d	kg	Code	No.
20.8	13/16	1/2	63.5	7	25.5	27.5	0.136	6361690	50
20.8	13/16	3/8	63.5	7	25.5	27.5	0.148	6362580	52
16.0		3/8	63.5	7	20.5	21.5	0.103	6362740	53
16.0		1/2	63.5	7	20.5	21.5	0.095	6363040	54
18.0		3/8	63.5	7	20.5	23.5	0.138	6361770	56
18.0		1/2	63.5	7	20.5	23.5	0.125	6361930	57

### 50 MH - 59 MH SPARK PLUG SOCKET



with magnet

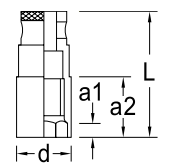
- > With two magnets
- > For use in confined spaces with jointed tools 3/8" or 1/2" square drive or tommy bar Ø 8 mm
- > With powerful magnets in the hexagon surface, which hold the spark plug safely on the hexagon
- > Wide opening gives space to the spark plug and makes it easier to put on the socket in confined areas
- > The ceramic core of the spark plug remains untouched
- > GEDORE vanadium steel 31CrV3, chrome-plated, polished head



57 MH



50 MH



mm	"AF	"	L	a <sub>1</sub>	a <sub>2</sub>	d	kg	Code	No.
20.8	13/16	1/2	64	7	30.5	27.5	0.136	6361420	50 MH
20.8	13/16	3/8	64	7	30.5	27.5	0.146	6361500	52 MH
16.0		3/8	64	7	30.5	21.5	0.100	6363390	53 MH
16.0		1/2	64	7	30.5	21.5	0.094	6363470	54 MH
18.0		3/8	64	7	30.5	23.5	0.137	6361850	56 MH
18.0		1/2	64	7	30.5	23.5	0.127	6362150	57 MH
13.0		3/8	64	7	30.5	18.0	0.074	6366220	59 MH



## SAFETY NOTES



- > For engines with ignition coils integrated in the spark-plug connector (coil-on-plug), use only spark-plug sockets with retainer springs! (Nos. 50 - 57)
- > Do not use magnetic spark-plug spanners on coil-on-plug spark plugs!
- > This can result in control unit faults!

## S 51 GU SET OF SPARK PLUG SOCKETS 3/8"

10 pieces

- > 4 spark plug sockets with magnets, 1 socket with UD profile
- > Reversible ratchet with flexible head and fine tooth mechanism, 3/8" square drive
- > 3 extensions, 1 universal joint
- > GEDORE vanadium steel 31CrV3
- > In GEDORE blue sheet steel case
- > Dimensions: 320 x 210 x 55 mm

Contents		Code	No.
52 MH 53 MH 56 MH 59 MH	2.523	1795554	S 51 GU
D 55			
3093 GU-3			
3090-3 -5 -10			
3095			



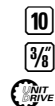
## D 55 SPARK PLUG SOCKET 3/8"

UD profile

- > With retention spring
- > For use with jointed tools 3/8" square drive or tommy bar Ø 8 mm



Ø mm	"	□	L	t	a	d		Code	No.
14	3/8	10	63.5	7.0	22.5	19.2	0.068	1793586	D 55



## PR 265 SPARK PLUG SOCKET WRENCH

- > With tommy bar 26 D 8 and 1/2" square drive for use with the torque wrenches
- > Particularly suitable for Renault and Peugeot



Ø mm	"AF	L	d		Code	No.
16.0	5/8	270	20.2	0.250	6646340	PR 265

## 647 SPARK PLUG BRUSH

- > With wooden handle and brass wire bristles



↳ mm	Bristle length		Code	No.
180	15	0.022	6531950	647

## 648 SPARK PLUG BRUSH

- > With plastic handle and brass wire bristles



↳ mm	Bristle length		Code	No.
100	14	0.009	6532090	648

## Exhaust / Engine / Various

## 224

### RATCHET PIPE CUTTER NIRO

for stainless steel pipes

- > Low space requirements, therefore highly suitable for working on vehicle exhaust gas systems
- > Body in zinc-plated pressure-cast aluminium
- > Easy handling via ratchet feed with automatic infeed of the cutting wheel with every rotation
- > Cutting wheel made from high-alloy stainless steel, with high service life
- > One spare cutting wheel in addition



Ø mm	Wall thickness	l mm	kg	Code	No.
16-35	1,0-3,0	260	0.930	1600877	224011
25-66	1,0-3,0	360	1.710	1600885	224021

## 4589

### CHAIN PIPE CUTTER

- > For pipes with Ø 75 mm and wall thickness 2.6 mm
- > Also suitable for stainless steel pipes
- > Spare chain E 4589 A



Ø mm max.	length appr.	kg	Code	No.
80	246	0.909	1446940	4589
	315	0.200	1446959	E-4589 A

## E 224

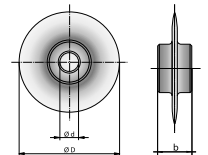
### SPARE PARTS



224611



224211



Description	Ø D	b	Ø d	kg	Code	No.
Cutting wheel size 1 + 2	26	6.3	4.8	0.007	1621440	224211
Wheel bolt size 1 + 2				0.003	1621459	224611

## 614

### ANTI-FREEZE TESTER

- > For ethylene glycol mixtures
- > Practical, reliable apparatus with high measuring accuracy
- > Easy-to-read scale with degrees Celsius
- > Made from high-quality impact-resistant plastics
- > Corrosion-proof
- > Suction tube length: 185 mm



kg	Code	No.
0.150	6523770	614

## 8134

### INSTALLATION PLIERS

- > For spreading of horseshoe pattern circlips of shaft retainers, on motors, gearboxes, clutches, etc.
- > For VW, AUDI and American vehicles
- > GEDORE vanadium steel 31CrV3




l mm	l inch	kg	Code	No.
170	6.3/4	0.191	6722030	8134-170 C

## Car body work

### 269 BODYWORK FILE


- > With light-alloy handle and flexible milled file blades
- > **269 K** complete with 269 F 9
- > **269 L** without milled file blade



Execution		Code	No.
<b>complete</b>	1.050	6460080	269 K
<b>without file blade</b>	0.614	6460160	269 L

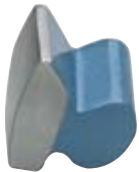
### 269 F FLEXIBLE MILLED FILE BLADES



Teeth "	Execution	l mm		Code	No.
<b>7</b>	extra coarse	354	0.249	5460030	269 F 7
<b>9</b>	coarse	354	0.289	5460110	269 F 9
<b>12</b>	fine	354	0.303	5460380	269 F 12

### 252 - 288 PLANISHING HAND ANVILS

- > Made from hardened and tempered steel to EN 10083
- > Enamelled, with ground faces



252



253



254



255



259



281




282




285



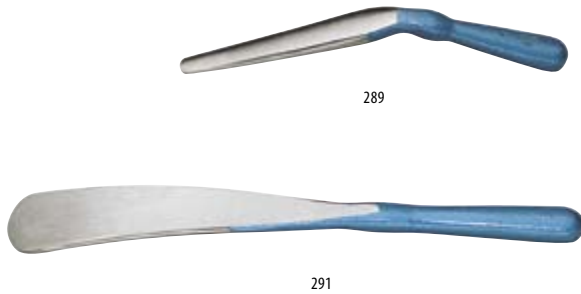
288

Measurements		Code	No.
<b>72 x 55 x 63</b>	1.206	6456990	252
<b>Ø 58.5 x 60</b>	0.844	6457020	253
<b>80 x 60 x 33</b>	1.070	6457100	254
<b>120 x 58 x 23</b>	0.942	6457290	255
<b>125 x 55 x 25</b>	1.028	6457610	259

Measurements		Code	No.
<b>130 x 55 x 36</b>	0.933	6461720	281
<b>100 x 40 x 80 x 70 x 62</b>	1.372	6461800	282
<b>111 x 68 x 23.5</b>	0.999	6462020	285
<b>104 x 66 x 25</b>	0.987	6463340	288

## 289 - 291 BODYWORK SPOON

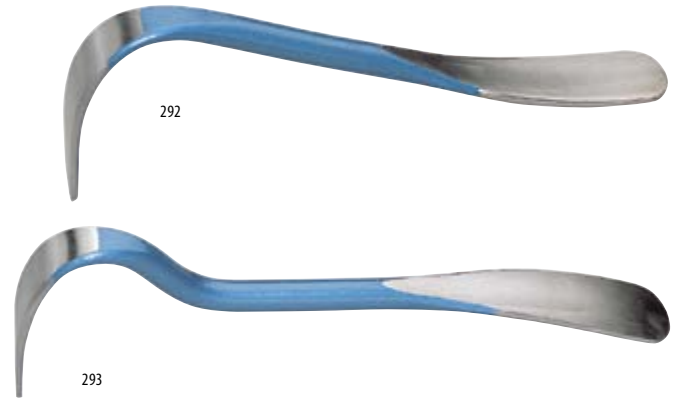
- > Made from hardened and tempered steel to EN 10083
- > Enamelled, with ground faces



mm	inch	kg	Code	No.
275	11	0.545	6463420	289
390	16	1.014	6463690	291

## 292 - 293 BODYWORK LEVER

- > GEDORE vanadium steel 31CrV3
- > Enamelled, with ground faces



mm	inch	kg	Code	No.
450	16	1.888	6463770	292
500	19	2.186	6463850	293

## 251 FLAT ROUND FACE HAMMER

- > With ergonomic ash handle (E-251 E)
- > Made from hardened and tempered steel to EN 10083
- > Enamelled blue, with ground faces



### E-251 E SPARE HANDLE ASH

mm	mm	mm	mm	Spare handle	kg	Code	No.	mm	kg	Code	No.
300	155	40	31	E-251 E	0.497	6456720	251	300	0.111	1808621	E-251 E

## 261 PLANISHING HAMMER

- > With ergonomic ash handle (E-261 E)
- > Made from hardened and tempered steel to EN 10083
- > Enamelled blue, with ground faces



### E-261 E SPARE HANDLE ASH

mm	mm	mm	Spare handle	kg	Code	No.	mm	kg	Code	No.
325	160	31	E-261 E	0.512	6457960	261	325	0.111	1440934	E-261 E

## 272 - 273 SMOOTHING HAMMER

- > With ergonomic ash handle (E-251 E)
- > Made from hardened and tempered steel to EN 10083
- > Enamelled blue, with ground faces
- > The K models have one milled cross-hatched face and one smooth square face



↳ mm ▶	┆ mm	● mm	■ mm	Spare handle	⚖	Code	No.
300	105	32	25	E-251 E	0.306	6460400	272
300	105	32	25	E-251 E	0.322	6460590	272 K
300	100	40	35	E-251 E	0.403	6460670	273
300	100	40	35	E-251 E	0.395	6460750	273 K

## 275 - 276 EMBOSSING HAMMER

- > With ergonomic ash handle (E-251 E)
- > Made from hardened and tempered steel to EN 10083
- > Enamelled blue, with ground faces



↳ mm ▶	┆ mm	● mm	Spare handle	⚖	Code	No.
300	160	40	E-251 E	0.446	6461050	275
300	160	40	E-251 E	0.446	6461130	276

## 277 POINT PEIN HAMMER

- > With ergonomic ash handle (E-251 E)
- > Made from hardened and tempered steel to EN 10083
- > Enamelled blue, with ground faces



↳ mm ▶	┆ mm	● mm	Spare handle	⚖	Code	No.
300	137	37	E-251 E	0.331	6461210	277

## 278 PLANISHING / GROOVING HAMMER

- > With ergonomic ash handle (E-251 E)
- > Made from hardened and tempered steel to EN 10083
- > Enamelled blue, with ground faces



↳ mm ▶	┆ mm	● mm	Spare handle	⚖	Code	No.
300	160	40	E-251 E	0.406	6461480	278

## Bodywork tool sets

Professional selection of tools

Available loose or in a sturdy steel case, powder-coated blue hammer finish

### 260 BODYWORK TOOL SET

8 pieces

- > Workshop selection
- > Well-chosen workshop assortment for universal use
- > In sheet steel case
- > Dimensions: 525 x 206 x 78 mm



Contents	⚖️	Code	No.
251 252 253 254 255 281 273 K 226 E-2 + WK 260 L	8.9	6457880	260
251 252 253 254 255 281 273 K 226 E-2	6.7	6459150	S 260

### 280 BODYWORK TOOL SET

12 pieces

- > Large workshop assortment
- > Good selection of the most common bodywork tools
- > In sheet steel case
- > Dimensions: 545 x 230 x 110 mm

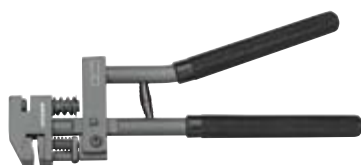


Contents	⚖️	Code	No.
272 K 273 K 277 278 281 282 288 291 292 293 259 225 E-32 + WK 280 L	15.4	6461640	280
272 K 273 K 277 278 281 282 288 291 292 293 259 225 E-32	11.8	6462290	S 280

## Sheet metal forming tools

### 8532 OFFSETTING PLIERS WITH PUNCH

- > Combination pliers for offsetting sheet metal edges up to 1 mm and for punching sheet metal for spot welding
- > The rotating head makes both operations possible using one tool
- > Single-handed, low-force operation



● mm	∅ mm	↳ mm	⚖️	Code	No.
22	5	325	1.258	6751130	8532

### 8533 PUNCH PLIERS

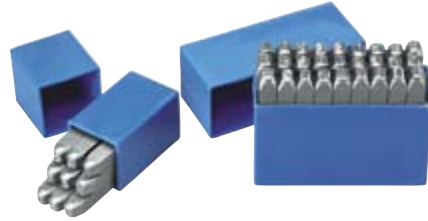
- > With adjustable stop for punching sheet metal up to 1.5 mm



● mm	∅ mm	↳ mm	⚖️	Code	No.
up to 30	5	260	0.955	6751640	8533

# 2200 - 2201 LETTER AND NUMBER PUNCHES

- > To label finished parts such as signs, tools, etc.
- > Made from hardened steel with hardened handle and tempered striking head
- > In blue plastic box
- > No. 2200 = 9 numbers, 6 mm printing height
- > No. 2201 = 27 letters (A - Z, &), 6 mm printing height



↳ mm ▷	■ mm	⚖ kg	Code	No.
70	9	0.415	8605140	2200-6
70	9	1.240	8605220	2201-6

## Equipment

### 905 CREEPER

- > Comfortable, ergonomically shaped one-piece creeper
- > With practical carrying handle
- > Made from PP (polypropylene) - kind on the skin, resistant to oil, grease and brake fluid
- > Six swivel castors ensure easy and safe manoeuvrability
- > Fatigue-free working, with head/neck cushion for maximum comfort
- > Bucket moulding gives additional hold and allows maximum freedom of movement
- > Two storage trays (right/left) to keep tools and small parts within easy reach
- > Carrying capacity: 130 kg
- > Temperature range -30 °C to +60 °C
- > Dimensions: 1030 x 480 x 115 mm



L	W	H	⚖ kg	Code	No.
1030	480	115	5.0	1823698	905

### 906 KNEELING BOARD

- > Made from solid foam, blue/black
- > With indented grip
- > Dimensions: 450 x 210 x 30 mm



L	W	H	⚖ kg	Code	No.
450	210	30	0.110	1942948	906

### 907 WING PROTECTOR

- > Protection from unwanted scratches, dents and dirt
- > Magnetic attachment keeps paintwork safe from damage - also attaches to galvanised steel sheet
- > Rugged, padded imitation leather and reinforced edges provide a perfect, cushioned working area
- > Dimensions: 1100 x 650 mm with wheel cut-out to allow free access



L	W	⚖ kg	Code	No.
1100	650	0.620	1942956	907

Files

## 8729 CONTACT FILE

> In blue PVC tear-off wallet



↳ "inch	↳ mm	Cut	⚖️	Code	No.
6	150	2	0.009	6771080	8729

## 8701 HAND FILE

> PVC handle  
> DIN 7261, Form A  
> Cut: 2



L	L"	W	H	Cut	⚖️	Code	No.
150	6	16	4	2	0.096	6768020	8701 2-6
200	8	20	5	2	0.183	6768100	8701 2-8
250	10	25	6	2	0.323	6768290	8701 2-10

## 8722 ROUND FILE

> PVC handle  
> DIN 7261, Form F  
> Cut: 2



∅	Cut	L	L"	⚖️	Code	No.
6.0	2	150	6	0.057	6770000	8722 2-6
7.5	2	200	8	0.112	6770190	8722 2-8
9.5	2	250	10	0.186	6770270	8722 2-10

## 8730 DEBURRER

> A valuable helper for removing burr on a wide range of different materials  
> The small, free-turning deburring knife adjusts to the contour of the workpiece and removes burr

Consisting of:

> 676 Driving handle  
> 699 Bit holder  
> E-8730 Deburrer bit 1/4" hex

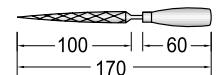


Description	⚖️	Code	No.
Deburrer	0.090	2190907	8730
Deburrer bit 1/4" hex	0.005	2190915	E-8730

## 8728 KEY FILE SET

6 pieces

> Acc. to DIN 7283  
> In blue plastic wallet



5 types	Cut	⚖️	Code	No.
■ ▲ ● ◐ ■	2	0.150	6771910	8728

## 8719 TRIANGULAR FILE

> PVC handle  
> DIN 7261, Form C  
> Cut: 2  
\* not standardised



L	L"	W	H	Cut	⚖️	Code	No.
150	6	*	10	2	0.081	6769260	8719 2-6
200	8		14	2	0.177	6769340	8719 2-8
250	10		17	2	0.304	6769420	8719 2-10

## 8725 HALF-ROUND BLUNT FILE

> PVC handle  
> DIN 7261, Form E  
> Cut: 2



L	L"	W	H	Cut	⚖️	Code	No.
150	6	16	4.5	2	0.091	6770350	8725 2-6
200	8	20	6.0	2	0.170	6770430	8725 2-8
250	10	25	7.0	2	0.285	6770510	8725 2-10



## various

644 - 646  
WIRE BRUSH

- > With untreated wooden handle, angled pattern, smooth, cast steel wire bristles



Execution	Bristle length	↳ mm ↳	⚖️	Code	No.
<b>3-row</b>	23	290	0.137	6531600	644
<b>6-row</b>	25	290	0.156	6531870	646

645  
FILE BRUSH

- > With carded cover and wooden handle
- > Bristle field 110 x 40 mm



↳ mm ↳	Bristle length	⚖️	Code	No.
<b>250</b>	10	0.095	6531790	645

## Saws

401  
SMALL SAW FOR METAL

- > Mini-hacksaw, bright nickel-plated
- > Saw blade 401 A



Description	↳ mm ↳	↳ inch ↳	⚖️	Code	No.
<b>Small saw for metal</b>	350	13.3/4	0.226	6500050	401
<b>Saw blade</b>	200		0.012	5500000	401 A

403  
HACKSAW

- > Adjustable tubular steel frame
- > For 10" and 12" hacksaw blades, complete with No. 403 A-405 A
- > Saw blades single-sided (403 A-405 A) and double-sided (403 B-405 B)
- > Handle enamelled



Description	↳ mm ↳	↳ inch ↳	⚖️	Code	No.
<b>Hacksaw</b>	410	18.1/2	0.411	6500210	403
<b>Saw blade, single-sided</b>			0.028	5500350	403 A-405 A
<b>Saw blade, double-sided</b>			0.041	5500430	403 B-405 B

404  
SMALL SAW FOR METAL PUK

- > Bright nickel-plated
- > Saw blade 404 A-406 A



Description	↳ mm ↳	↳ inch ↳	⚖️	Code	No.
<b>Small saw for metal PUK</b>	290	11	0.107	6500480	404
<b>Saw blade</b>	145		0.003	5501080	404 A-406 A

406  
HOBBY SAW

- > For wood and metal
- > Made from flat bar, 10 x 5 mm, zinc-plated
- > Glass-fibre reinforced plastic handle
- > Reach 50 mm
- > For use with junior hacksaw blades 145 mm
- > Saw blade 404 A-406 A



Description	↳ mm ↳	↳ inch ↳	⚖️	Code	No.
<b>Hobby saw</b>	250	10	0.168	6501020	406
<b>Saw blade</b>	145		0.003	5501080	404 A-406 A

407  
HACKSAW

- > Very light hacksaw in pressure-cast aluminium
- > Ergonomic soft rubber hand grips
- > Fixing of the sawblade by simple turning the blue clamping element in the hand grip
- > Clamping piece adjustable by 40°
- > Saw blade bimetal 407 A



Description	⚖️	Code	No.
<b>Hacksaw</b>	0.650	1879375	407
<b>Saw blade bimetal</b>	0.055	1879383	407 A

V 406

&gt; 595



## Parallel Vices

### 409 - 410 PARALLEL VICE

- > Welded, compact design
- > Jaws and anvil plate induction hardened
- > Extra large anvil surface for aligning works
- > Protected vice spindle
- > Adjustable guidance
- > Enamelled blue



mm	mm	kg	Code	No.
100	120	7.0	6500800	409
150	155	16.4	6500990	410

### 411 PARALLEL VICE

- > Sturdy forged design
- > Jaws and anvil plate induction hardened
- > Protected vice spindle
- > Adjustable guidance
- > Enamelled blue



mm	mm	kg	Code	No.
125	150	12.5	6501100	411-125
150	200	18.5	6501290	411-150

### E-411 SPARE JAWS FOR PARALLEL VICE

- > Jaws induction hardened



Description	mm	kg	Code	No.
Aluminium jaws 125 mm	125	0.186	5704430	E-411 A-125
Aluminium jaws 150 mm	150	0.218	5704510	E-411 A-150
Pipe-clamping jaws 125 mm	125	0.794	5704270	E-411 R-125
Pipe-clamping jaws 150 mm	150	0.778	5704350	E-411 R-150

## Measuring Tools

### 702 FEELER GAUGE SET, FAN PATTERN

- > With protective handle, folding, blade length 100 mm
- > Handle nickel-plated
- > 702 22 A + 702 26 A each increasing by 1/1000"



mm	kg	Code	No.
5 10 15 20 25 30 40 50/100	0.037	6547520	702 8 M
3 4 5 6 7 8 9 10/100	0.027	6547600	702 88 M
5 10 15 20 25 30 40 50 60 70 80 90 100/100	0.065	6547790	702 13 M
5 10 15 20 25 30 35 40 45 50 55	0.100	6547870	702 20 M
60 65 70 75 80 85 90 95 100/100			
10 12 14 16 18 20 22 24 26 28 30	0.068	6547950	702 21 M
32 34 36 38 40 42 44 46 48 50/100			

mm	kg	Code	No.
.002 .004 .006 .008 .010 .012 .015 .020"	0.033	6548250	702 8 A
.0015 .002 .003 .004 .006 .008 .010 .012 .015 .020 .025"	0.038	6548410	702 11 A
.002 .003 .004 .005 .006 .008 .010 .012 .015 .020 .025 .030 .035"	0.055	6548680	702 13 A
.004 - .025"	0.081	6548760	702 22 A
.0015 - .025"	0.080	6548840	702 26 A

## 703 M VALVE FEELER GAUGE

- > 7 Blades, blade length 75 mm



			Code	No.
10 15 20 25 30 35 40/100	0.011		6549140	703 M

## 705 M SPARK PLUG GAUGE

- > With electrode adjuster
- > Gauge wires in precision steel wire



			Code	No.
40 50 60 70 75 80 90 100/100 mm	0.027		6549570	705 M

## 706 THREAD GAUGE

- > 52 Blades
- > For metric and Whitworth threads
- > Pitches 0.25-6.00 mm / 62-4 Step" W



Pitch		Code	No.
0,25-6,00	0.083	6549730	706

## 710 POCKET VERNIER CALLIPER

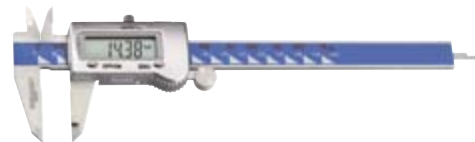
- > DIN 862, Form A 2
- > For internal and external measurements, with polished tips, depth gauge and high-speed setting
- > Graduated in mm and inches, vernier 1/20 and 1/128"
- > In leather wallet



				Code	No.
213	140	5.1/2	0.171	6555030	710

## 711 DIGITAL MEASURING CALLIPER

- > To DIN 862
- > Stainless steel, hardened
- > Switchable from mm to inch
- > Measuring range 0 - 150 mm/6"
- > Data output (mini-USB)
- > Zeroing in any position
- > Measurement beak finely smoothed and lapped
- > Large LCD display (digit height 9 mm)
- > Can be used with or without thumb roller (replacement part without thumb roller included in delivery for self-mounting)
- > In sturdy protective case



				Code	No.
230	153	6	0.408	6550070	711

## 717 STEEL RULE

- > Steel rule with millimetre and inch graduation acc. to DIN ISO 2768
- > Top edge 1/64; 1/32 and 1/16 inch graduation, bottom edge 1/2 mm and 1/1 mm graduation
- > Etched graduation for a legible reading
- > Reading from left to right
- > Flexible version
- > Stainless spring-steel
- > Satin non-glare finish
- > Dimensions: 300 x 18 x 0.5 mm



			Code	No.
300	12	0.010	1965603	717-30

## 718 INSPECTION MIRROR

- > For inspection of areas that are not directly visible
- > Mirror of resistant mineral glass, Ø 30 mm, swivels through 360°
- > Telescope handle adjusts from 130 to 670 mm
- > Brass handle, mirror frame from stainless steel
- > Nickel-plated
- > Resistant to oil, grease and brake fluid



Ø			Code	No.
30	130-670	0.040	1979841	718

## 720 TWEEZERS

- > With angled tips
- > Bright nickel-plated



l mm	kg	Code	No.
150	0.025	6556270	720

## 721 CROSS TWEEZERS

- > With straight tips
- > Bright nickel-plated



l mm	kg	Code	No.
160	0.033	6556350	721

## 722-1 PRECISION TWEEZERS

- > Flat, fine, long points
- > Satin non-glare finish



l mm	kg	Code	No.
130	0.022	1881655	722-1

## 722-1 ESD PRECISION TWEEZERS ESD

- > Flat, fine, long points
- > Satin non-glare finish
- > ESD = electrostatic discharge protection, black



l mm	kg	Code	No.
130	0.022	1881663	722-1 ESD

## 722-2 PRECISION TWEEZERS

- > Flat, fine points
- > Satin non-glare finish



l mm	kg	Code	No.
95	0.010	1881671	722-2

## 745 SCRIBER

- > Made from special steel



l mm	kg	Code	No.
250	0.058	6559530	745

## 746 CARBIDE SCRIBER

- > Carbide, silver
- > With drop mechanics
- > Replaceable tip (E-746)



l mm	kg	Code	No.
140	0.022	6559610	746

## 4533-2 FOLDING RULE

- > Robust 2 m model with brass protective caps
- > Most suitable for craftsmen or do-it-yourselfers
- > Links 3.0 x 16 mm
- > Made of branch free beechwood with invisible metal fittings
- > Riveted joint guarantees correct measurement even in humid or dry conditions
- > With easy to read metric dual scale
- > Accuracy class III
- > EG-design approval for continuous mm division

## 4534 STEEL TAPE MEASURE

- > With belt clip and rewind stop
- > mm-divisions
- > Approved standard mark



L m	mm	kg	Code	No.
3	13	0.128	6697920	4534-3
5	19	0.220	6698060	4534-5
8	25	0.365	6698140	4534-8



L m	kg	Code	No.
2	0.086	1837087	4533-2

## Thread Workings

# 8552-025 SCREW EXTRACTOR SET

25 pieces

- > For extracting broken screws and bolts with threads M5 - M16
- > In handy plastic case, with twist drills, guide sleeves, extractor pins and extractor nuts
- > Dimensions: 200 x 120 x 38 mm



Contents		Code	No.
<b>Extractor pins size 1 2 3 4 5</b>	0.790	6755550	8552-025
<b>Drilling sleeves 1 2 3 4 5 6 7 8 9 10</b>			
<b>Extractor nuts size 10 11 13 14 17</b>			
<b>Drills 8.7-11/32" 8-5/16" 6.4-1/4" 4.8-3/16" 3.2-1/8"</b>			

# 140 THREAD FILE

- > For repairing damaged internal and external threads
- > Chrome-vanadium steel, ISO-nickel-plated
- > 140 metric threads
- > 140 A inch threads
- > 140 W Whitworth threads



for thread pitches			Code	No.
<b>0.80 1.00 1.25 1.50 2.00 2.50 3.00 mm</b>	230	0.125	6409640	140
<b>24 20 18 16 14 13 12 11 inch</b>	230	0.125	6409720	140 A
<b>24 20 18 16 14 12 11 10 Whitworth</b>	230	0.124	6409800	140 W

# 8551 S SCREW EXTRACTOR

- > For removing broken screws, bolts and tube ends
- > Made from high-grade chrome-vanadium steel, tempered, 54-56 HRC
- > Lower unscrewing torques thanks to the revised cross-section geometry
- > Reduced drilling depth thanks to an optimised thread length
- > Greater safety for user and component alike
- > Larger application range, time-saving



		Ø	Bore mm			Code	No.
<b>M3 - M6</b>	1/8-1/4	1,8-7,0	1,8	2.7	50	0.003 2659352	8551 S 1
<b>M6 - M8</b>	1/4-5/16	3,2-10,0	3,2	3.8	57	0.007 2659379	8551 S 2
<b>M8 - M11</b>	5/16-7/16	4,5-13,0	4,5	4.9	64	0.014 2659387	8551 S 3
<b>M11 - M14</b>	7/16-9/16	6,5-16,0	6,5	7.0	71	0.027 2659395	8551 S 4
<b>M14 - M18</b>	9/16-3/4	8,5-21,0	8,5	9.0	79	0.046 2659409	8551 S 5
<b>M18 - M24</b>	3/4-1	12,0	12,0	12.0	85	0.095 2659417	8551 S 6

# 8551 S BOLT EXTRACTOR SET

- > For removing broken screws, bolts and tube ends
- > Made from high-grade chrome-vanadium steel, tempered, 54-56 HRC



8551 S-006



8551 S-005

Contents			Code	No.
<b>8551 S 1 2 3 4 5</b>	M3-M18	0.125	2659336	8551 S-005
<b>8551 S 1 2 3 4 5 6</b>	M3-M24	0.230	2659344	8551 S-006

# 8551 BOLT EXTRACTOR SET

- > Made from chrome-vanadium steel, 54 HRC
- > In transparent plastic box



8551-55

Contents			Code	No.
<b>8551 1 2 3 4 5</b>	M3-M18	0.117	6759620	8551-55
<b>8551 1 2 3 4 5 6</b>	M3-M24	0.221	6759700	8551-66
<b>8551 1 2 3 4 5 6 7 8</b>	M3-M45	0.724	6759890	8551-88

## 8551 BOLT EXTRACTOR

> Made from chrome-vanadium steel, 54 HRC

### Operation:

- > Drill a central hole into the broken bolt (see table)
- > Turn the bolt extractor to the left into this hole until it grips and removes the bolt (penetrating oil may be necessary!)
- > Always choose the largest possible extractor size

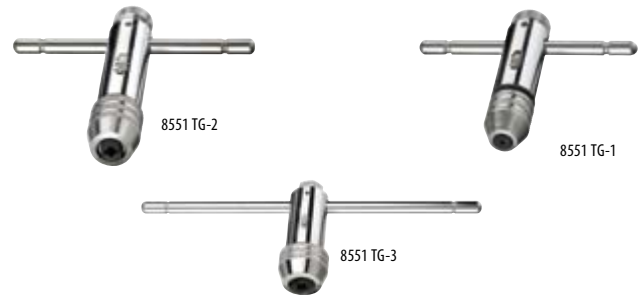


$\frac{M}{mm}$	$\frac{M}{mm}$	$\emptyset$	Bore mm		$\llcorner mm \lrcorner$	$\frac{kg}{mm^2}$	Code	No.
<b>M3 - M6</b>	1/8-1/4	1,4-3,6	1,8	2,7	50	0.005	6758490	8551 1
<b>M6 - M8</b>	1/4-5/16	2,1-4,9	2,6	3,8	57	0.009	6758570	8551 2
<b>M8 - M11</b>	5/16-7/16	3,1-5,5	3,7	4,9	65	0.015	6758650	8551 3
<b>M11 - M14</b>	7/16-9/16	4,8-8,8	5,5	7,0	70	0.030	6758730	8551 4
<b>M14 - M18</b>	9/16-3/4	6,2-11,0	7,0	9,0	80	0.051	6758810	8551 5
<b>M18 - M24</b>	3/4-1	9,4-15,0	10,3	12,0	85	0.098	6759030	8551 6
<b>M24 - M33</b>	1-1.3/8	12,7-19,0	13,7	14,5	95	0.162	6759110	8551 7
<b>M33 - M45</b>	1.3/8-1.3/4	17,5-24,0	18,6	18,0	100	0.283	6759380	8551 8

## 8551 TG TAP WRENCH WITH RATCHET

> To operate bolt extractors (no. 8551 and 8551 S) in confined spaces

- > Reversible for clockwise or counterclockwise operation
- > Sliding T-handle
- > With two-jaw chuck to hold square shanks
- > All steel version, chrome-plated



$\frac{mm}{mm}$	$\frac{M}{mm}$	$\llcorner mm \lrcorner$	$\frac{kg}{mm^2}$	Code	No.
<b>2,0-5,0</b>	M3-M8	85	0.186	2659433	8551 TG-1
<b>4,6-8,0</b>	M5-M12	110	0.315	2659441	8551 TG-2
<b>9,0-12,5</b>	M13-M20	117	1.040	2659468	8551 TG-3

## 8553 TAP AND DIE SET

- > In plastic case
- > Dimensions: 275 x 150 x 42 mm
- > For internal threads M3 - M6
- > For external threads M3 - M6, max. 40 mm long
- > Ratchet drive system with extension unit
- > Additional guide sleeve for dies to ensure accurately aligned thread cutting along the bar axis, with swarf collector
- > **Drives:** Ratchet with extension
- > **Taps:** Quick-clamp tap wrench with M3-M6 taps
- > **Dies:** Die handle with guide disc and M3-M6 dies
- > **Accessories:** Fixing screws and angle screwdriver



Contents	$\frac{kg}{mm^2}$	Code	No.
T-handle ratchet 2093 U-3 T	0.510	1939068	8553
Hex socket key 2 mm			
Extension, 1/4" 4 mm			
Die holder			
Quick-clamp tap wrench			
Threaded stud M4x6			
Backing washer			
Guide disc M3 M4 M5 M6			
Dies M3 M4 M5 M6			
Taps M3 M4 M5 M6			

## Scrapers

### 130 THREE-EDGED BEARING SCRAPER

- > Made from special steel
- > Working ends polished
- > With wooden handle
- > Flanged blade



Spoon				Code	No.
70	150	270	0.136	8777350	130-150
85	200	315	0.171	8777430	130-200

### 132 THREE-EDGED HOLLOW GROUND SCRAPER

- > Made from special steel
- > Working ends polished
- > With wooden handle
- > Flanged blade



			Code	No.
150	270	0.100	8779130	132-150
200	315	0.163	8779480	132-200
250	365	0.185	8779560	132-250

## SAFETY INSTRUCTION FOR SCRAPERS



- > Do not touch the sharp working edges.

### 133 D GASKET SCRAPER

- > Made from special steel
- > With wooden handle
- > Flanged blade



			Code	No.
150	260	0.120	1395262	133 D-150

### 134 THREE-EDGED FLAT GROUND SCRAPER

- > Made from special steel
- > Working ends polished
- > With wooden handle
- > Flanged blade



			Code	No.
100	200	0.072	8781620	134-100
150	270	0.139	8781890	134-150
200	315	0.168	8782000	134-200

### 131 CURVED BEARING SCRAPER (LONG SCRAPER)

American pattern

- > Made from special steel
- > Working ends polished
- > With wooden handle

- > Flanged blade



Spoon				Code	No.
85	200	315	0.100	8778320	131-200

### 133 F FLAT SCRAPER

- > Made from special steel
- > Working ends polished
- > With wooden handle

- > Flanged blade
- > \* not standardised



					Code	No.
150	270	20	5	*	0.190	8780490 133 F-150
200	315	20	5		0.234	8780650 133 F-200
250	365	25	6		0.390	8780730 133 F-250

### 133 H HARD METAL TIP FLAT SCRAPER

- > Soldered hard metal tip
- > Wooden handle



					Code	No.
30	5	250	365	0.350	4523000	133 H

### 133 K GASKET SCRAPER

- > With plastic handle



				Code	No.
10	240	22.5	0.154	6535190	133 K

### 134 K THREE-SQUARE SCRAPER

- > With ground edges
- > Shaft PVC coated
- > Black plastic handle



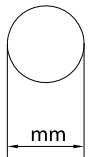
				Code	No.
6	80	170	0.060	4646860	134 K

## Arc punches

5700  
ARC PUNCH

- > To DIN 7200 Form A
- > For stamping out cardboard, leather, rubber, sealing materials and other soft materials
- > Cutting edge hardened
- > Shaft blue varnished

Ø mm	Ø inch	l mm	W kg	Code	No.
2	1/16	105	0.045	4542300	570002
3	1/8	105	0.045	4542490	570003
4	5/32	105	0.050	4542570	570004
5	3/16	110	0.070	4542650	570005
6	1/4	110	0.070	4542730	570006
7		120	0.090	4542810	570007
8	5/16	120	0.090	4543030	570008
9	11/32	120	0.090	4543110	570009
10	3/8	130	0.125	4543380	570010
11	7/16	130	0.130	4543460	570011
12	15/32	130	0.130	4543540	570012
13	1/2	140	0.165	4543620	570013
14	9/16	140	0.170	4626590	570014
15	19/32	140	0.180	4543890	570015
16	5/8	140	0.180	4543970	570016
17	21/32	145	0.230	4544000	570017
18	11/16	145	0.230	4544190	570018
19	3/4	145	0.240	4544270	570019
20	25/32	160	0.315	4544350	570020
21	13/16	160	0.315	4546560	570021



Ø mm	Ø inch	l mm	W kg	Code	No.
22	7/8	160	0.320	4545670	570022
23	29/32	170	0.375	4545750	570023
24	15/16	170	0.375	4540440	570024
25	1	170	0.400	4618300	570025
26	1.1/32	170	0.375	4618490	570026
27	1.1/16	175	0.475	4618570	570027
28	1.3/32	175	0.500	4618650	570028
29	1.1/8	175	0.450	4618730	570029
30	1.3/16	190	0.590	4618810	570030
31		190	0.580	4619030	570031
32	1.1/4	190	0.580	4619110	570032
33		195	0.660	4619380	570033
34	1.5/16	195	0.675	4619460	570034
35	1.3/8	195	0.690	4619540	570035
36		200	0.700	4619620	570036
37	1.7/16	205	0.700	4619700	570037
38	1.1/2	205	0.770	4619890	570038
39		205	0.770	4619970	570039
40	1.9/16	205	0.860	4620040	570040

5703  
SET OF ARC PUNCHES

- > To DIN 7200 Form A
- > For stamping out cardboard, leather, rubber, sealing materials and other soft materials
- > Cutting edge hardened
- > Shaft blue varnished
- > In plastic wallet no. 570390



Contents	W kg	Code	No.
<b>10 pieces, consisting of 1 piece each</b> <b>Arc punch 3, 5, 7, 8, 10, 13, 16, 19, 22 and 25 mm</b>	1.850	1549502	570303
<b>8 pieces, consisting of 1 piece each</b> <b>Arc punch 3, 6, 8, 10, 12, 16, 20 and 25 mm</b>	1.470	1549510	570304
<b>7 pieces, consisting of 1 piece each</b> <b>4, 6, 8, 10, 12, 14, 16 mm</b>	0.960	2646382	570307

1101-5705  
SET OF ARC PUNCHES

in i-BOXX® 72

- > To DIN 7200 Form A
- > For stamping out cardboard, leather, rubber, sealing materials and other soft materials
- > Cutting edge hardened
- > Shaft blue varnished
- > Delivery in GEDORE i-BOXX® 72 no. 1101 L
- > Dimensions: W 367 x D 316 x H 72 mm



Contents	W kg	Code	No.
<b>18 pieces, consisting of 1 piece each</b> <b>Arc punch 2, 3, 4, 5, 6, 7, 8, 9,</b> <b>10, 11, 12, 13, 14, 15, 16, 18, 20, 22 mm</b> <b>1 GEDORE i-BOXX® 72 no. 1101 L</b>	3.395	2963469	1101-570500



## Tin snips

### 420 TIN SNIPS

- > Right hand cutting
- > For long straight cuts
- > Berlin pattern
- > Ground cutting edges
- > Sheet thickness max. 1.0 mm at strength 600 N/mm<sup>2</sup>
- > Black varnished, handles blue epoxy coated



Execution	l mm	kg	Code	No.
right hand cutting	250	0.470	4513980	420025
right hand cutting	300	0.740	4514010	420030

### 421 HOLE CUTTING SNIPS

- > For short straight and figure cuts (great radii)
- > Polished cutting edges
- > Sheet thickness max. 1.0 mm at strength 600 N/mm<sup>2</sup>
- > Black varnished, handles blue epoxy coated



Execution	l mm	kg	Code	No.
right hand cutting	250	0.490	4514280	421025
right hand cutting	275	0.520	4514360	421027

### 422 IDEAL PATTERN SNIPS

- > For straight continuous and figure cuts
- > Polished cutting edges
- > Sheet thickness max. 1.0 mm at strength 600 N/mm<sup>2</sup>
- > Black varnished, handles blue epoxy coated



Execution	l mm	kg	Code	No.
right hand cutting	260	0.510	4514870	422026
left hand cutting	260	0.565	4515090	422126

### 423 PELICAN PATTERN SNIPS

- > Right hand cutting
- > For long straight continuous and figure cuts
- > Polished cutting edges
- > Sheet thickness max. 1.0 mm at strength 600 N/mm<sup>2</sup>
- > Black varnished, handles blue epoxy coated



Execution	l mm	kg	Code	No.
right hand cutting	300	0.730	4515250	423030
right hand cutting	350	0.850	4515330	423035

### 424 IDEAL PATTERN SNIPS

- > For straight continuous and figure cuts
- > With lever action
- > Self-opening with installed spring, with lock
- > Polished cutting edges
- > Sheet thickness max. 1.2 mm at strength 600 N/mm<sup>2</sup>
- > Non-slip 2-component handles



Execution	l mm	kg	Code	No.
right hand cutting	260	0.530	4515410	424026
left hand cutting	260	0.530	4515680	424126

### 425 FIGURE SNIPS

- > For straight continuous and figure cuts
- > With lever action
- > Self-opening with installed spring, with lock
- > Polished cutting edges
- > Sheet thickness max. 1.2 mm at strength 600 N/mm<sup>2</sup>
- > Non-slip 2-component handles



Execution	l mm	kg	Code	No.
right hand cutting	260	0.480	4515760	425026

## Industrial Cutlery

- > Cutlery is traditionally not made from tempering steel, but from plain carbon steel. Carbon steel is not stainless, but keeps its sharpness longer than stainless steel.
- > All GEDORE scissors are hot, drop-forged.
- > Precisely machined and hardened/tempered.




- > The cutting-edge is manually ground
- > Carbon steel, professional hardening/tempering and the hand-ground cutting edge ensure an optimum cut and cutting-sharpness longevity.

## Knives

### 0038 POCKET KNIFE

- > Anchor or dinghy knife for heavy-duty use
- > Folding
- > Universal use
- > Extremely sharp
- > C75 carbon steel blade
- > Weatherproof hardwood handle






			Code	No.
80	180	0.086	9100580	0038-08

### 0042 CABLE KNIFE

- > With wire stripper
- > Folding
- > Universal use
- > Extremely sharp
- > C75 carbon steel blade
- > Weatherproof hardwood handle






			Code	No.
90	195	0.076	9100660	0042-09

### 0063 CABLE KNIFE

- > With wire stripper
- > Folding
- > Universal use
- > Extremely sharp
- > X46Cr13 stainless steel blade
- > Plastic handle






			Code	No.
80	200	0.092	9101200	0063-08

### 0059 - 0067 POCKET KNIFE

- > Traditional working knife
- > Folding
- > Universal use
- > Extremely sharp
- > C75 carbon steel blade
- > Weatherproof hardwood handle






			Code	No.
70	160	0.061	9101470	0067-07
90	185	0.078	9101390	0065-09
100	210	0.102	9101120	0059-10

### 0117 WORK KNIFE

- > Ideal as a packaging, boxing, warehousing or paper knife
- > Extremely sharp
- > C75 carbon steel blade
- > Beech handle






			Code	No.
100	220	0.070	9102520	0117-10
120	240	0.080	9102600	0117-12
160	280	0.106	9102790	0117-16
180	300	0.110	9102870	0117-18

### 0246 INDUSTRIAL KNIFE

- > Wide blade with straight back
- > Extremely sharp
- > C75 carbon steel blade
- > Beech handle






			Code	No.
160	280	0.098	9106860	0246-16

## 0291 UNIVERSAL KNIFE

- > Universal use
- > Extremely sharp
- > C75 carbon steel blade
- > Beech handle





			Code	No.
60	175	0.037	9107910	0291-06

## 0365 UNIVERSAL KNIFE

- > Stainless steel
- > Handle made from cherrywood






			Code	No.
70	165	0.039	9109290	0365-07

## 0513 CABLE KNIFE

- > With wire stripper
- > Folding
- > Universal use
- > Extremely sharp
- > C70 carbon steel blade
- > Weatherproof hardwood handle



			Code	No.
90	195	0.080	9113050	0513-09

4528

>595



VDE 4522 K

>594



VDE 4527 K

>594




## Scrapers

### 0175 SCRAPER

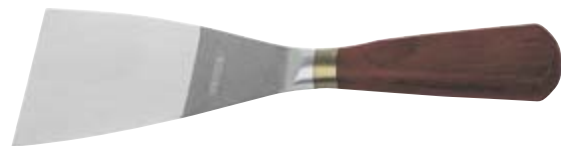
- > Stamped blade
- > Fine-polished, flexible C75 carbon steel
- > Glazed beech handle




W		Code	No.
50	0.072	9104060	0175-05
60	0.080	9104140	0175-06
100	0.110	9104300	0175-10

### 0179 SCRAPER

- > Professional version
- > Fully forged
- > Fine-polished, flexible C50 carbon steel
- > Weatherproof hardwood handle




W		Code	No.
60	0.084	9104730	0179-06

## Scissors

## 1104 CRAFTSMAN SCISSORS

- > Outstanding cutting performance
- > Suitable for textiles, rubber, wallpaper, plastic, etc.
- > Forged, resharpenable
- > Adjuster screw for later adjustment
- > Fine-polished C45 carbon steel, varnished eyes, silicone dipped RAL 5015
- > Chrome-plated
- > Version L = for left-handers




Size	Length of cutting edge	Total length		Code	No.
7"	85	180	0.142	9118280	1104-18
8"	95	200	0.248	9118360	1104-20
9"	110	230	0.300	9118440	1104-23
10"	120	260	0.378	9118520	1104-26

## 1277 INDUSTRIAL SCISSORS PROFESSIONAL

- > With two equal eyes
- > For universal use
- > Hand-ground
- > Adjuster screw for later adjustment
- > Fine-polished C45 carbon steel
- > Chrome-plated




Size	Length of cutting edge	Total length		Code	No.
6"	65	160	0.061	9119840	1277-16
7"	80	180	0.088	9119920	1277-18

## 1350 INDUSTRIAL SCISSORS PROFESSIONAL

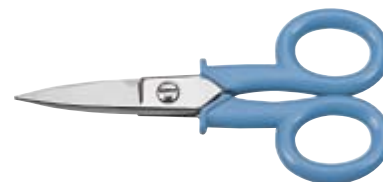
- > One large and one small eye for higher transmission of force
- > For universal use
- > Hand-ground
- > Adjuster screw for later adjustment
- > Fine-polished carbon steel
- > Chrome-plated
- > Version L = for left-handers




Size	Length of cutting edge	Total length		Code	No.
6"	65	160	0.070	9120770	1350-16
7"	80	180	0.094	9120850	1350-18
7"	80	180	0.094	2082314	1350-18L
8"	100	200	0.132	9120930	1350-20

## 8096 SMALL UNIVERSAL SCISSORS

- > With insulation stripping slot
- > Nickel-plated, with blue handle protectors



Length of cutting edge	Total length		Code	No.
50	140	0.075	6707900	8096-140

## Safety at work

### Work gloves

#### 920 WORK GLOVES FASTFIT

- > For universal use
- > Close fitting for retention of feel and dexterity
- > Stage 5 classification as per EN 420/03 (scale from 0 - 5)
- > Kind on the skin
- > Rugged imitation leather and synthetic material



Size		Code	No.
<b>S/8</b>	0.070	1938576	920 8
<b>M/9</b>	0.070	1938584	920 9
<b>L/10</b>	0.080	1938592	920 10
<b>XL/11</b>	0.080	1938606	920 11
<b>XXL/12</b>	0.080	1938614	920 12

#### 922 WORK GLOVES M-PACT

- > For heavy duty use
- > Close fitting for retention of feel and dexterity
- > Stage 5 classification as per EN 420/03 (scale from 0 - 5)
- > Rubber reinforced finger tips
- > Adjustable hook and loop fasteners on the cuffs
- > Additional knuckle protectors
- > Ergonomic palm reinforcement
- > Rugged imitation leather and synthetic material



Size		Code	No.
<b>S/8</b>	0.080	1938738	922 8
<b>M/9</b>	0.080	1938746	922 9
<b>L/10</b>	0.080	1938754	922 10
<b>XL/11</b>	0.090	1938762	922 11
<b>XXL/12</b>	0.090	1938770	922 12

### Tool Bags

#### WT 1056 1 HEAVY-DUTY BELT WITH CUSHION

- > Fits waist size from 80-120 cm (32"-48")
- > Strongly cushioned for maximum comfort
- > Made from leather



L	W	max. load capacity kg		Code	No.
<b>1330</b>	145	12	0.450	1802410	WT 1056 1

#### WT 1056 2 UNIVERSAL POUCH

- > Leather pocket for knives
- > Hammer holder with metal hooks
- > Hook for tape measure



W	H	max. load capacity kg		Code	No.
<b>290</b>	290	5	0.340	1811096	WT 1056 2

#### WT 1056 3 DRILL HOLSTER

- > Suitable for drill-machines and battery-drills
- > With pockets for screws and bits
- > Securing loop as loss-proof



W	H	max. load capacity kg		Code	No.
<b>210</b>	320	4	0.150	1818147	WT 1056 3

#### WT 1056 4 HAMMER HOLDER WITH METAL HOOKS

- > Holds any claw hammer at a comfortable angle
- > Enables boundless freedom of movement
- > Polyester and blue suede
- > Stainless tab




W	H	max. load capacity kg		Code	No.
<b>100</b>	160	3	0.100	1818155	WT 1056 4

## WT 1056 5 THREE-POUCH BELT SET

- > Fits waist size from 80-120 cm (32"-48")
- > 4 holsters, 5 storage pockets and 1 eyelet for tape measure




W	H	max. load capacity kg		Code	No.
690	270	10	0.750	1818163	WT 1056 5

## WT 1056 6 ELECTRICIANS' POUCH

- > Generous pouch space
- > 8 pockets for screwdrivers
- > Extra pocket for insulation stripping knife
- > Holding shackle for insulating tape





W	H	max. load capacity kg		Code	No.
240	320	3	0.500	1818171	WT 1056 6

## WT 1056 7 HEAVY-DUTY BELT SET

- > Heavily padded belt for superior comfort when fully loaded
- > Fits waist size from 80-120 cm (32"-48")
- > Basic belt from leather
- > All inclusive: Holster, hammer holder, 2 pockets and mobile phone holder (available separately WT 1056 7-1)




Description		max. load capacity kg		Code	No.
<b>Heavy-duty belt set</b>	1330	12	1.600	1818198	WT 1056 7
<b>Mobile phone holder</b>	-	-	0.052	1963171	WT 1056 7-1

## WT 1056 8 DUO POUCH

- > Leather pocket for knives
- > 2 large storage pockets




W	H	max. load capacity kg		Code	No.
240	280	3	0.360	1818201	WT 1056 8

## WT 1056 9 ROLL-COVER

- > With 12 inside pockets for slim tools, e.g. combination spanners or screwdrivers
- > Delivery without tools



W	H	max. load capacity kg		Code	No.
320	350	2	0.120	1818228	WT 1056 9

## WT 1056 10 KNEE PADS, PAIR

- > Made of strong synthetic leather with rubber
- > Soft lining for comfortable kneeling
- > Hook and loop fastener
- > Universal size



kg	Code	No.
0.200	1818236	WT 1056 10

## WT 1056 11 TOOL RUCKSACK PROFI

- > With extra large capacities
- > Practical and ergonomic arrangement of the internal and external pockets
- > Ideal for transport and storage of tools, accessories and documents
- > Strong zippers
- > Reinforced back, padded adjustable shoulder straps and additional practical handle on the top
- > Tear-resistant polyester fabric with 3M reflective stripes, suede
- > Spray-water repellent, resistant to chemical agents
- > Inured to temperature changes



W	H	D	max. load capacity kg	kg	Code	No.
300	400	120	15	2.800	1818244	WT 1056 11

## WT 1056 12 TOOL RUCKSACK SOFT

- > SOFT rucksack, extremely light and yet strong
- > Tear-resistant polyester fabric and suede
- > Strong and watertight
- > Practical and ergonomic arrangement of the internal and external pockets
- > Ideal for transport and storage of tools, accessories and documents
- > Strong zippers
- > Padded adjustable shoulder straps and additional practical handle on the top



W	H	D	max. load capacity kg	kg	Code	No.
380	410	70	12	1.900	1818252	WT 1056 12

## WT 1056 13 TOOL VEST

- > Multifunctional tool vest with many pockets and holsters
- > Universal size with 4 lateral buckles
- > Padded pouches of different dimensions for tools and small components
- > Mobile phone holder and reinforced tab to hang a hammer
- > Wide back pouch
- > Net insert in the back for a better transpiration
- > Compartment with window for an identity card
- > Tear-resistant polyester fabric with 3M reflective stripes, suede
- > Spray-water repellent, resistant to chemical agents
- > Inured to temperature changes



W	H	max. load capacity kg	kg	Code	No.
480	660	5	1.000	1818260	WT 1056 13



VDE 8131AB - 200 V

GEDORE  
8131 AB-2  
007  
Made in Austria

crimp  
2.5mm  
1.5mm

10



# VDE INSULATED SAFETY TOOLS

## VDE SPANNERS

>572



## VDE TORQUE WRENCHES

>573



## SOCKETS + ACCESSORIES 3/8"

1000 V

>573



## SOCKETS + ACCESSORIES 1/2"

1000 V

>574



## VDE SCREWDRIVER

>575



## VDE PLIERS

>580



## VDE ASSORTMENTS

>587



## VDE ACCESSORIES

>593



# VDE INSULATED SAFETY TOOLS

## Note:

- > Texts: All DIN EN 60900-tested tools must be marked with the manufacturer's name, model or type designation, the year of manufacture and the double triangle lightning symbol with the 1000 V detail.
- > All mechanical requirements such as hardness, torque and forces must comply with the DIN-ISO tolerances.



Is the work environment well prepared?

### VDE accessories

Some items in our VDE accessories range are marked with the usual test mark for protective equipment.



## What should I consider before starting work?

The VDE safety check - for your own safety

### Safety Notes

- > Work on electrically live equipment must be carried out only by trained electricians!
- > Only tools and safety equipment marked with the double triangle or bell 1000 V symbol (refer to BGV A3) must be used.
- > Before commencing any work, check the insulation for damage.
- > Damaged tools must not be used!
- > The regulations of the employers' liability insurance associations and power supply companies must be complied with!
- > GEDORE VDE tools are approved for work on live circuits at voltages up to 1000 V AC and 1500 V DC.
- > Tools must not be combined unless they are designed to be securely joined together.



- > Only tools bearing this test mark are classed as insulated tools
- > VDE insulation: insulated up to 1000 V acc. to EN 60900/IEC 60900
- > Safe working in high-voltage areas
- > Up to 1000 V AC (alternating current)
- > Up to 1500 V DC (direct current)



Tools marked with the double triangle are individually tested = testing at 10,000 V AC based on EN 60900/IEC 60900



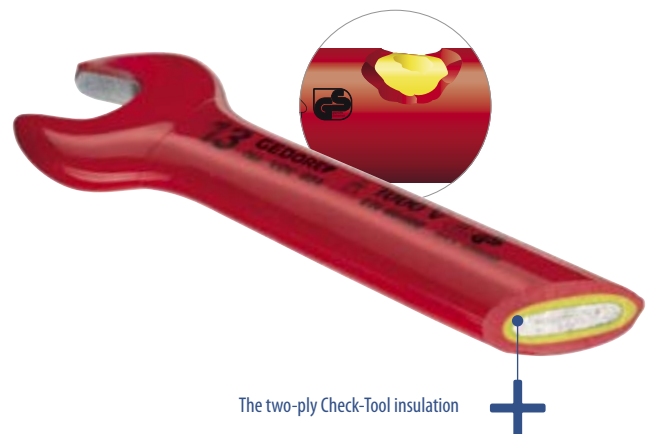
The VDE symbol points to the VDE Test Institute as having carried out the test. As a result, GEDORE and the VDE Test Institute vouch for the fulfilment of the tool and safety standards and thus meet the requirements of the German equipment safety law.



The GS symbol is a symbol defined in the law on technical equipment and consumer products (German Equipment and Product Safety Act/GSPG). It may only be used with the name given of the testing and certification office.

## VDE Check-Tool Insulation

- > All GEDORE VDE soft-plastic insulated safety tools have the Check-Tool insulation.
- > The two-colour multi-layer insulation - red on the outside, yellow on the inside - complies with the BGV A3 (VBG-4) regulation.
- > The tool must not show any discernable damage. If yellow is visible, it is high time to dispose of the tool.
- > For technical reasons, Check-Tool insulation cannot be applied on tools with sprayed insulation.



The two-ply Check-Tool insulation



## VDE 2 E

### VDE SINGLE ENDED RING SPANNER



deep offset

- > GEDORE vanadium steel 31CrV3
- > VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900, two-ply Check-Tool insulation



VDE 2 E 19



VDE 2 E 13

Ø	↳ mm ▷	⚖	Code	No.
8	170	0.061	6035890	VDE 2 E 8
9	170	0.074	6035970	VDE 2 E 9
10	170	0.097	6036000	VDE 2 E 10
11	180	0.093	6036190	VDE 2 E 11
12	190	0.147	6036270	VDE 2 E 12
13	190	0.130	6036350	VDE 2 E 13
14	210	0.151	6036430	VDE 2 E 14
15	215	0.155	6036510	VDE 2 E 15
17	220	0.199	6036780	VDE 2 E 17
19	240	0.244	6036860	VDE 2 E 19
22	260	0.319	6036940	VDE 2 E 22
24	280	0.446	6037080	VDE 2 E 24
27	295	0.506	6037160	VDE 2 E 27
30	310	0.592	6037240	VDE 2 E 30
32	330	0.683	6037320	VDE 2 E 32

## VDE 894

### VDE SINGLE OPEN ENDED SPANNER



- > GEDORE vanadium steel 31CrV3
- > VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900, two-ply Check-Tool insulation
- > Jaw set at 15°



VDE 894 12



VDE 894 22

Ø mm	↳ mm ▷	⚖	Code	No.
9	105	0.030	6572040	VDE 894 9
10	105	0.034	6572120	VDE 894 10
11	115	0.044	6572200	VDE 894 11
12	125	0.052	6572390	VDE 894 12
13	135	0.067	6572470	VDE 894 13
14	145	0.081	6572550	VDE 894 14
15	150	0.093	6572630	VDE 894 15
16	155	0.108	6572710	VDE 894 16
17	160	0.117	6572980	VDE 894 17
19	175	0.161	6573010	VDE 894 19
22	200	0.210	6573280	VDE 894 22
24	220	0.268	6573360	VDE 894 24
27	245	0.396	6573440	VDE 894 27
30	265	0.486	6573520	VDE 894 30
32	280	0.558	6574920	VDE 894 32

## V 60 CP

### ADJUSTABLE WRENCH



open end, 1000 V

- > Chrome-plated
- > Dip-insulated
- > Individually tested, insulation up to 1000 V



Size "	mm	⚖	Code	No.
6	20	0.170	2179040	V 60 CP 6
8	25	0.330	2179059	V 60 CP 8
10	30	0.520	2179067	V 60 CP 10
12	36	0.880	2179075	V 60 CP 12

## VDE 2133

### VDE SOCKET WRENCH

with 3C-handle



- > 3-component handles Power-Grip<sup>3</sup> with hanging hole
- > Ergonomic handle design enables precise and fatigue-free working
- > Positive-fit joint of handle and blade for optimum transmission of force
- > Head depth 25 mm, blade length 125 mm
- > VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900



Ø	mm	mm	Head Ø	Ø	⚖	Code	No.
3	125	225	9	8,9	0.109	1747045	VDE 2133 3
4	125	225	10	8,9	0.111	1747053	VDE 2133 4
5	125	225	11	8,9	0.112	1747061	VDE 2133 5
6	125	225	12	8,9	0.114	1747088	VDE 2133 6
7	125	235	14	9,9	0.152	1747096	VDE 2133 7
8	125	235	15	9,9	0.154	1747118	VDE 2133 8
9	125	235	16	9,9	0.154	1747126	VDE 2133 9
10	125	235	17	9,9	0.161	1747134	VDE 2133 10
11	125	245	19	10,9	0.193	1747142	VDE 2133 11
12	125	245	20	10,9	0.196	1747150	VDE 2133 12
13	125	245	21	10,9	0.199	1747169	VDE 2133 13
14	125	245	22	10,9	0.198	1747177	VDE 2133 14
17	125	245	26	10,9	0.222	1747185	VDE 2133 17

## VDE 4507

### VDE TORQUE WRENCH 1/2"



5-50 N·m / 4-37 lbf·ft

- > Controlled screw tightening in the most common range of 5 - 50 N·m / 4 - 37 lbf·ft
- > Automatic short-path actuation with tactile impulse and audible signal
- > Dual scale with a scale graduation of 5 N·m and 5 lbf·ft
- > Fine toothed ratchet with square drive as per DIN 3120 - A 12.5, ISO 1174
- > VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900, two-ply Check-Tool insulation



"	mm	mm	kg	Code	No.
1/2	12.5	370	1.251	6681920	VDE 4507-4

## VDE INX 30

### VDE SCREWDRIVER BIT SOCKET 3/8"

NEW



for multi-point screws XZN

- > With pressed-in pin
- > With square drive according to DIN 3120 - C 12.5, ISO 1174
- > Bit in GEDORE vanadium special steel, manganese-phosphated
- > VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900, two-ply Check-Tool insulation



"	Code	No.
M8	2946564	VDE INX 30 8
M10	2946572	VDE INX 30 10
M12	2946580	VDE INX 30 12

## VDE 3090

### VDE EXTENSION 3/8"

NEW



- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174
- > VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900, two-ply Check-Tool insulation
- > 16 - 18 mm insulation overhang



"	mm	mm	kg	Code	No.
3/8	10	75	0.097	2946548	VDE 3090-3
3/8	10	150	0.115	2946556	VDE 3090-6

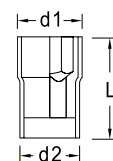
## VDE 30

### VDE SOCKET 3/8"

NEW



- > Hexagon socket wrench, hand-operated
- > With square drive according to DIN 3120 - C 10, ISO 1174
- > GEDORE vanadium steel 31CrV3
- > VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900, two-ply Check-Tool insulation
- > 16 - 18 mm insulation overhang



Ø	d <sub>1</sub>	d <sub>2</sub>	L	Code	No.
6	13.7	23	44	2946386	VDE 30 6
8	16.1	23	44	2946394	VDE 30 8
9		23	44	2946408	VDE 30 9
10	18.7	23	44	2946416	VDE 30 10
11	20.0	23	44	2946424	VDE 30 11
12	21.2	23	44	2946432	VDE 30 12
13	22.5	23	44	2946440	VDE 30 13
14	23.7	23	45	2946459	VDE 30 14
15	25.0	23	46	2946467	VDE 30 15
16	26.2	23	46	2946475	VDE 30 16
17	27.5	23	46	2946483	VDE 30 17
18	28.7	23	46	2946491	VDE 30 18
19	30.0	23	46	2946505	VDE 30 19
20	31.2	23	47	2946513	VDE 30 20
22	33.7	23	48	2946521	VDE 30 22

## VDE 3093 U

### VDE REVERSIBLE RATCHET 3/8"

NEW



with push-button release

- > Robust, with smooth action
- > Sockets held absolutely securely by push-button lock with ball in the square drive
- > Direction changed by 2 push-buttons, marked R and L, on the shaft
- > Return angle 8.2 degrees
- > Square drive acc. to DIN 3120 - A 10, ISO 1174, chrome-vanadium steel 31CrV3
- > VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900



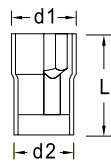
"	mm	mm	kg	Code	No.
3/8	10	185	0.215	2946599	VDE 3093 U



## VDE 19 VDE SOCKET 1/2"



- > Hexagon socket wrench, hand-operated
- > With square drive according to DIN 3120 - C 12.5, ISO 1174
- > GEDORE vanadium steel 31CrV3
- > VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900, two-ply Check-Tool insulation
- > 16 - 18 mm insulation overhang
- > Sizes 27, 30 and 32: diameter  $d_1$  is not standardised



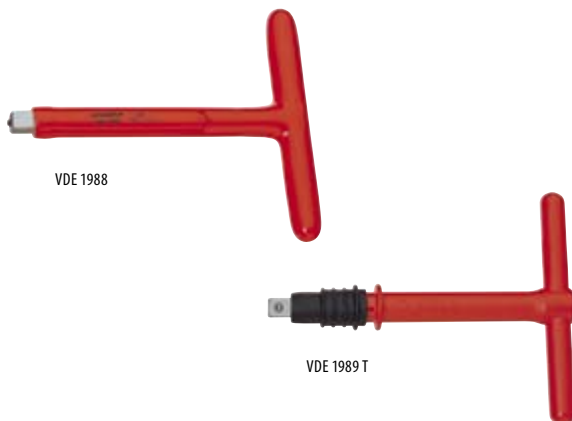
Ø	$d_1$	$d_2$	L	$\frac{kg}{kg}$	Code	No.
10	19.5	27	54.0	0.070	6122510	VDE 19 10
11	20.7	27	54.0	0.067	6122780	VDE 19 11
12	22.0	27	54.0	0.070	6122860	VDE 19 12
13	23.2	27	54.0	0.069	6122940	VDE 19 13
14	24.5	27	54.0	0.073	6123080	VDE 19 14
15	25.7	27	55.5	0.088	6123160	VDE 19 15
16	27.0	27	55.5	0.086	1439294	VDE 19 16
17	28.2	27	55.5	0.084	6123240	VDE 19 17
19	30.7	27	56.0	0.092	6123320	VDE 19 19
22	34.5	27	57.5	0.121	6123400	VDE 19 22
24	37.0	27	57.5	0.146	6123590	VDE 19 24
27	40.7	27	57.5	0.174	6123670	VDE 19 27
30	44.5	27	59.0	0.212	6123750	VDE 19 30
32	47.0	27	60.5	0.250	6123830	VDE 19 32

## VDE 1988 - VDE 1989 T VDE T-HANDLE



for 1/2" VDE tools

- > VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900, two-ply Check-Tool insulation
- > VDE 1988 with screw locking, not suited for use with VDE IN 19
- > VDE 1989 T with pull locking



■ "	■	↳ mm ↳	$\frac{kg}{kg}$	Code	No.
1/2	12.5	200	0.455	6124210	VDE 1988
1/2	12.5	200	0.355	6124720	VDE 1989 T

## VDE IN 19 VDE SCREWDRIVER BIT SOCKET 1/2"



for in-hex screws

- > With pressed-in pin
- > With square drive according to DIN 3120 - C 12.5, ISO 1174, with ball groove
- > Tip GEDORE vanadium special steel
- > VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900, two-ply Check-Tool insulation
- > Sockets can only be combined with VDE 1989 T, VDE 1991, VDE 1993 U and VDE 4507



●	↳ mm ↳	Ø	$\frac{kg}{kg}$	Code	No.
5	106	27	0.083	6124480	VDE IN 19 5
6	106	27	0.095	6124560	VDE IN 19 6
8	106	27	0.109	6124640	VDE IN 19 8

## VDE 1990 VDE EXTENSION 1/2"



- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174
- > With lock screw for holding the socket wrenches
- > VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900, two-ply Check-Tool insulation
- > Not suited for use with VDE IN 19
- > 16 - 18 mm insulation overhang



■ "	■	↳ mm ↳	$\frac{kg}{kg}$	Code	No.
1/2	12.5	125	0.213	6124050	VDE 1990-5
1/2	12.5	250	0.411	6124130	VDE 1990-10

## VDE 1991 VDE EXTENSION 1/2"



- > With hollow shaft, especially suitable for screwdriver bit sockets VDE IN 19
- > Max. torque 370 N-m
- > VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900, two-ply Check-Tool insulation



■ "	■	↳ mm ↳	$\frac{kg}{kg}$	Code	No.
1/2	12.5	125	0.204	1507516	VDE 1991

## VDE 1993 U

### VDE REVERSIBLE RATCHET

#### 1/2"



with push-button release

- > Robust, with smooth action
- > Sockets held absolutely securely by push-button lock with ball in the square drive
- > Direction changed by 2 push-buttons, marked R and L, on the shaft
- > Return angle 10 degrees
- > Square drive acc. to DIN 3120 - A 12.5, ISO 1174, chrome-vanadium steel 31CrV3
- > VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900



"	mm	mm	kg	Code	No.
1/2	12.5	270	0.546	6123910	VDE 1993 U

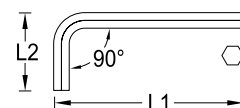
## V 42

### VDE HEXAGON ALLEN KEY

#### for in-hex screws

1000 V

- > Acc. to DIN ISO 2936
- > Particularly suitable for cable branch clamping rings
- > Oil-hardened
- > GEDORE vanadium special steel
- > Individually tested, insulation up to 1000 V



mm	L <sub>1</sub>	L <sub>2</sub>	kg	Code	No.
3	130	23.5	0.020	2324849	V 42 3
4	120	40.0	0.025	2324857	V 42 4
5	140	48.0	0.045	2324865	V 42 5
6	140	48.0	0.060	2324873	V 42 6
8	150	51.0	0.110	2324881	V 42 8
10	220	51.0	0.230	2324903	V 42 10
12	260	61.5	0.350	2324911	V 42 12

## V 42 T

### VDE HEXAGON ALLEN KEY

#### WITH T-HANDLE

1000 V

for in-hex screws

- > Individually tested, insulation up to 1000 V
- > With Check-Tool insulation
- > GEDORE chrome-vanadium steel 59CrV4



mm	mm	mm	kg	Code	No.
4	160	X	0.145	2661225	V 42 T 4
5	160	X	0.250	2661233	V 42 T 5
6	160	X	0.250	2661241	V 42 T 6
8	160	X	0.260	2661268	V 42 T 8
10	200	-	0.390	2661276	V 42 T 10
11	200	-	0.400	2661284	V 42 T 11
12	200	-	0.420	2661292	V 42 T 12

## VDE 2170

### VDE SCREWDRIVER

#### for slotted head screws

1000 V

- > Individually tested, VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900, fully insulated blade
- > Tip to DIN ISO 2380-1 form B
- > 3-component handles Power-Grip<sup>3</sup> with hanging hole
- > Ergonomic handle design enables precise and fatigue-free working
- > Positive-fit joint of handle and blade for optimum transmission of force
- > Type of drive marked at end of the handle
- > Blade from GEDORE molybdenum-vanadium-Plus tempered steel



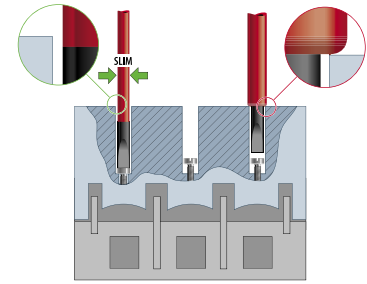
mm	mm	mm	mm	kg	Code	No.
2.5	0.4	75	160	0.038	1612220	VDE 2170 2,5
3.0	0.5	100	185	0.042	1612239	VDE 2170 3
3.5	0.6	100	185	0.055	1612247	VDE 2170 3,5
4.0	0.8	100	185	0.058	1612255	VDE 2170 4
5.5	1.0	125	225	0.095	1612271	VDE 2170 5,5
6.5	1.2	150	260	0.134	1612298	VDE 2170 6,5
8.0	1.2	175	295	0.158	1612301	VDE 2170 8
10.0	1.6	200	320	0.208	1612336	VDE 2170 10



# SLIM DRIVE

No problems in reaching screws deeply embedded in screw shafts

- > Ultra-small blade diameter yet with full mechanical and electrical safety
- > No problems in reaching screws deeply embedded in screw shafts
- > VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900, fully insulated blade
- > 3-component handles Power-Grip<sup>3</sup> with hanging hole
- > Ergonomic handle design enables precise and fatigue-free working
- > Positive-fit joint of handle and blade for optimum transmission of force
- > Type of drive marked at end of the handle
- > Blade from GEDORE molybdenum-vanadium-Plus tempered steel



## VDE 2172 VDE SCREWDRIVER SLIM DRIVE

for slotted head screws

- > Individually tested, VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900, fully insulated blade
- > 3-component handles Power-Grip<sup>3</sup> with hanging hole
- > Ergonomic handle design enables precise and fatigue-free working
- > Positive-fit joint of handle and blade for optimum transmission of force
- > Type of drive marked at end of the handle
- > Ultra-small blade diameter yet with full mechanical and electrical safety
- > No problems in reaching screws deeply embedded in screw shafts
- > Blade from GEDORE molybdenum-vanadium-Plus tempered steel



⊖ mm	mm	mm	mm	kg	Code	No.
3.5	0.6	100	185	0.055	2824736	VDE 2172 3,5
4.0	0.8	100	185	0.055	2824744	VDE 2172 4
5.5	1.0	125	225	0.100	2824752	VDE 2172 5,5
6.5	1.2	150	260	0.140	2824760	VDE 2172 6,5

## V 2160 MS PH SCREWDRIVER MAVO

△ 1000 V

for cross-head screws PH

- > No-contact voltage finder and fitted magnetic field tester
- > Voltage fields are displayed in red and magnetic fields in green
- > The no-contact voltage finder detects energised conductors. The capacitive testing method can localise a break in the cable down to a few millimeters.
- > The magnetic field tester examines the function of electro-magnetic switches and valves without having to place the switch out of service. Both permanent and alternating magnetic fields are displayed
- > 3-component handles Power-Grip<sup>3</sup>
- > Ergonomic handle design enables precise and fatigue-free working
- > Positive-fit joint of handle and blade for optimum transmission of force
- > Blade from GEDORE molybdenum-vanadium-Plus tempered steel
- > Individually tested, insulation up to 1000 V



⊕ PH	M	mm	mm	kg	Code	No.
2	M3,5 - M5	100	210	0.140	2824434	V 2160 MS PH 2

## VDE 2160 PH VDE SCREWDRIVER

for cross-head screws PH

- > Individually tested, VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900, fully insulated blade
- > Blade tip to DIN ISO 8764-1 PH
- > 3-component handles Power-Grip<sup>3</sup> with hanging hole
- > Ergonomic handle design enables precise and fatigue-free working
- > Positive-fit joint of handle and blade for optimum transmission of force
- > Type of drive marked at end of the handle
- > Blade from GEDORE molybdenum-vanadium-Plus tempered steel



⊕ PH	M	mm	mm	kg	Code	No.
0	M1,6 - M2	60	145	0.039	1612107	VDE 2160 PH 0
1	M2 - M3	80	180	0.082	1612115	VDE 2160 PH 1
2	M3,5 - M5	100	210	0.119	1612123	VDE 2160 PH 2
3	M5,5 - M7	150	270	0.188	1612131	VDE 2160 PH 3
4	M8 - M10	200	320	0.269	1612158	VDE 2160 PH 4

## VDE 2160 PZ VDE SCREWDRIVER

for cross-head screws Pozi PZ

- > Individually tested, VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900, fully insulated blade
- > Blade tip to DIN ISO 8764-1 PZ
- > 3-component handles Power-Grip<sup>3</sup> with hanging hole
- > Ergonomic handle design enables precise and fatigue-free working
- > Positive-fit joint of handle and blade for optimum transmission of force
- > Type of drive marked at end of the handle
- > Blade from GEDORE molybdenum-vanadium-Plus tempered steel



⊕ PZ	M	mm	mm	kg	Code	No.
0	M1,6 - M2	60	145	0.038	1612166	VDE 2160 PZ 0
1	M2 - M3	80	180	0.082	1612182	VDE 2160 PZ 1
2	M3,5 - M5	100	210	0.120	1612190	VDE 2160 PZ 2
3	M5,5 - M7	150	270	0.188	1612204	VDE 2160 PZ 3
4	M8 - M10	200	320	0.270	1612212	VDE 2160 PZ 4



## VDE 2162 PH VDE SCREWDRIVER SLIM DRIVE



for cross-head screws PH

- > Individually tested, VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900, fully insulated blade
- > 3-component handles Power-Grip<sup>3</sup> with hanging hole
- > Ergonomic handle design enables precise and fatigue-free working
- > Positive-fit joint of handle and blade for optimum transmission of force
- > Type of drive marked at end of the handle
- > Ultra-small blade diameter yet with full mechanical and electrical safety
- > No problems in reaching screws deeply embedded in screw shafts
- > Blade from GEDORE molybdenum-vanadium-Plus tempered steel



⊕ PH	M	mm	mm	kg	Code	No.
1	M2 - M3	80	180	0.100	2824442	VDE 2162 PH 1
2	M3,5 - M5	100	210	0.140	2824450	VDE 2162 PH 2

## VDE 2162 PZ VDE SCREWDRIVER SLIM DRIVE



for cross-head screws Pozi PZ

- > Individually tested, VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900, fully insulated blade
- > 3-component handles Power-Grip<sup>3</sup> with hanging hole
- > Ergonomic handle design enables precise and fatigue-free working
- > Positive-fit joint of handle and blade for optimum transmission of force
- > Type of drive marked at end of the handle
- > Ultra-small blade diameter yet with full mechanical and electrical safety
- > No problems in reaching screws deeply embedded in screw shafts
- > Blade from GEDORE molybdenum-vanadium-Plus tempered steel



⊕ PZ	M	mm	mm	kg	Code	No.
1	M2 - M3	80	180	0.100	2824469	VDE 2162 PZ 1
2	M3,5 - M5	100	210	0.140	2824477	VDE 2162 PZ 2

## VDE 2162-2172 PH-02 VDE SCREWDRIVER SET SLIM DRIVE



2 pieces

- > Practical set composition in environmentally-friendly cardboard box
- > For slotted and cross-head screws PH
- > Ultra-small blade diameter yet with full mechanical and electrical safety
- > No problems in reaching screws deeply embedded in screw shafts
- > VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900, fully insulated blade
- > 3-component handles Power-Grip<sup>3</sup> with hanging hole
- > Ergonomic handle design enables precise and fatigue-free working
- > Positive-fit joint of handle and blade for optimum transmission of force
- > Type of drive marked at end of the handle
- > Blade from GEDORE molybdenum-vanadium-Plus tempered steel



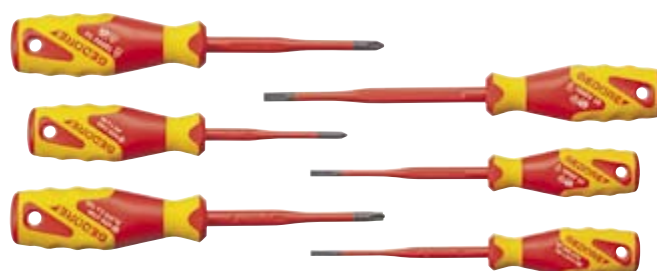
Contents	kg	Code	No.
⊖ VDE 2172 3,5	0.195	2928736	VDE 2162-2172 PH-02
⊕ VDE 2162 PH 2			

## VDE 2162-2172 PM-06 VDE SCREWDRIVER SET SLIM DRIVE



6 pieces

- > Practical set composition in environmentally-friendly cardboard box
- > For slotted and cross-head screws PH as well as Plus-Minus screws
- > Ultra-small blade diameter yet with full mechanical and electrical safety
- > No problems in reaching screws deeply embedded in screw shafts
- > VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900, fully insulated blade
- > 3-component handles Power-Grip<sup>3</sup> with hanging hole
- > Ergonomic handle design enables precise and fatigue-free working
- > Positive-fit joint of handle and blade for optimum transmission of force
- > Type of drive marked at end of the handle
- > Blade from GEDORE molybdenum-vanadium-Plus tempered steel



Contents	kg	Code	No.
⊖ VDE 2172 3,5 4 5,5	0.590	2928701	VDE 2162-2172 PM-06
⊕ VDE 2162 PH 1 2			
⊕ VDE 2164 SL/PH 2			

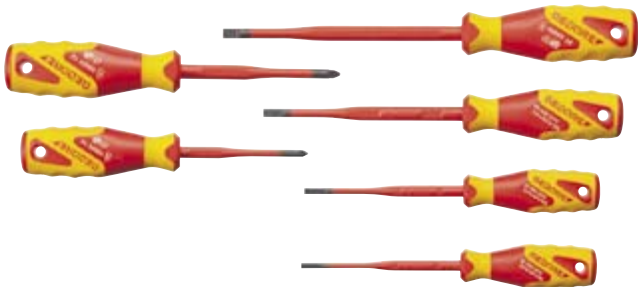


## VDE 2162-2172 PZ-06 VDE SCREWDRIVER SET SLIM DRIVE



6 pieces

- > Practical set composition in environmentally-friendly cardboard box
- > For slotted and cross-head screws PZ
- > Ultra-small blade diameter yet with full mechanical and electrical safety
- > No problems in reaching screws deeply embedded in screw shafts
- > VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900, fully insulated blade
- > 3-component handles Power-Grip<sup>3</sup> with hanging hole
- > Ergonomic handle design enables precise and fatigue-free working
- > Positive-fit joint of handle and blade for optimum transmission of force
- > Type of drive marked at end of the handle
- > Blade from GEDORE molybdenum-vanadium-Plus tempered steel



Contents		Code	No.
⊖ VDE 2172 3,5 4 5,5 6,5	0.590	2928728	VDE 2162-2172 PZ-06
⊕ VDE 2162 PZ 1 2			

## VDE 2163 K VDE SCREWDRIVER



for in-hex screws, with ball end

- > Individually tested, VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900, fully insulated blade
- > 3-component handles Power-Grip<sup>3</sup> with hanging hole
- > Ergonomic handle design enables precise and fatigue-free working
- > Positive-fit joint of handle and blade for optimum transmission of force
- > Type of drive marked at end of the handle
- > Working angle approx. 25° in each direction
- > Blade from GEDORE molybdenum-vanadium-Plus tempered steel



mm				Code	No.
2,5	75	160	0.055	2824485	VDE 2163 K 2,5
3	75	160	0.055	2824493	VDE 2163 K 3
4	75	160	0.055	2824507	VDE 2163 K 4
5	75	175	0.100	2824515	VDE 2163 K 5
6	100	210	0.140	2824523	VDE 2163 K 6
8	100	220	0.222	2824531	VDE 2163 K 8

## VDE 2164 VDE SCREWDRIVER SLIM DRIVE PLUSMINUS



Plus-Minus

- > Individually tested, VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900, fully insulated blade
- > 3-component handles Power-Grip<sup>3</sup> with hanging hole
- > Ergonomic handle design enables precise and fatigue-free working
- > Positive-fit joint of handle and blade for optimum transmission of force
- > Type of drive marked at end of the handle
- > Ultra-small blade diameter yet with full mechanical and electrical safety
- > No problems in reaching screws deeply embedded in screw shafts
- > Blade from GEDORE molybdenum-vanadium-Plus tempered steel



			Code	No.
80	180	0.100	2824817	VDE 2164 SL/PH1
100	210	0.140	2824825	VDE 2164 SL/PH2

## VDE 2163 TX VDE SCREWDRIVER



for recessed TORX® head screws

- > Individually tested, VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900, fully insulated blade
- > 3-component handles Power-Grip<sup>3</sup> with hanging hole
- > Ergonomic handle design enables precise and fatigue-free working
- > Positive-fit joint of handle and blade for optimum transmission of force
- > Type of drive marked at end of the handle
- > Blade from GEDORE molybdenum-vanadium-Plus tempered steel
- > TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



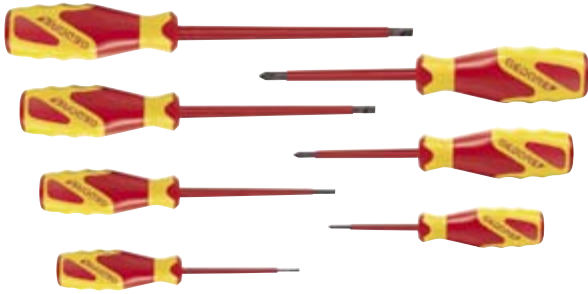
						Code	No.
T5	M1,8	1,42	60	145	0.055	2824558	VDE 2163 TX T5
T6	M2	1,69	60	145	0.100	2824574	VDE 2163 TX T6
T7	M2,5	1,99	60	145	0.100	2824582	VDE 2163 TX T7
T8	M2,5	2,31	60	145	0.100	2824590	VDE 2163 TX T8
T9	M3	2,50	60	145	0.100	2824604	VDE 2163 TX T9
T10	M3 - M3,5	2,74	60	145	0.100	2824612	VDE 2163 TX T10
T15	M3,5 - M4	3,27	80	180	0.100	2824620	VDE 2163 TX T15
T20	M4 - M5	3,86	80	180	0.100	2824639	VDE 2163 TX T20
T25	M4,5 - M5	4,43	80	180	0.100	2824647	VDE 2163 TX T25
T27	M4,5 - M6	4,99	100	210	0.100	2824655	VDE 2163 TX T27
T30	M6 - M7	5,52	100	210	0.140	2824663	VDE 2163 TX T30
T40	M7 - M8	6,65	150	270	0.140	2824671	VDE 2163 TX T40
T45	M8 - M10	7,82	150	270	0.222	2824698	VDE 2163 TX T45

## VDE 2170-2160 PH-077 VDE SCREWDRIVER SET



7 pieces

- > Packed in environmentally-friendly cardboard box
- > For slotted and cross-head screws PH
- > VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900, fully insulated blade
- > 3-component handles Power-Grip<sup>3</sup> with hanging hole
- > Ergonomic handle design enables precise and fatigue-free working
- > Positive-fit joint of handle and blade for optimum transmission of force
- > Type of drive marked at end of the handle
- > Blade from GEDORE molybdenum-vanadium-Plus tempered steel



Contents		Code	No.
⊖ VDE 2170 2,5 4 5,5 6,5	0.575	1616048	VDE 2170-2160 PH-077
⊕ VDE 2160 PH 0 1 2			

## VDE 4616 VOLTAGE TESTER 1000 V



two-pole with LED display

- > Voltage 12 V - 1000 V AC/ DC (LED)
- > Display stages: 12, 24, 50, 120, 230, 400, 690, 1000 V AC/ DC
- > Acoustic and optical continuity test up to 100 kΩ (buzzer/ yellow LED)
- > Phase sequence test (green LED), phase test (red LED), polarity test (LED)
- > Direct displaying without pressing a push-button (high-impedance test)
- > Load connection via push-buttons (low-impedance test)
- > Intended release of a 30 mA RCD safety switch
- > Non-contact phase tester/detector of cable breaks (yellow LED flashing)
- > Vibrating alert in the test handle
- > Measuring point illumination
- > Protection classification IP65, dust-proof, hose-proof
- > Robust housing with rubberized gripping surface
- > Tested and approved acc. to IEC/EN 61243-3:2015
- > Over voltage category CAT IV 600 V, CAT III 1000 V
- > Incl. 2x 1.5 V micro batteries (LR03/ AAA) (voltage display from 50 V even in case of empty batteries)



	Code	No.
0.360	3032744	VDE 4616

## 4615 VOLTAGE TESTER



- > For 220-250 Volt AC
- > Blade nickel-plated, fully insulated blade conforming to DIN VDE 0680-6
- > 4615 3 with metal clip and yellow cap



mm	mm				Code	No.
⊖ 3.0	0.5	60	140	0.022	6699110	4615 3
⊖ 3.5	0.6	90	180	0.037	6699380	4615 3,5

## V 180 CABLE SHEARS



- > Cuts cable up to 27 mm, solid material up to 200 mm<sup>2</sup>
- > Individually tested, insulation up to 1000 V



		Code	No.
620	2.125	6430330	V 180 23



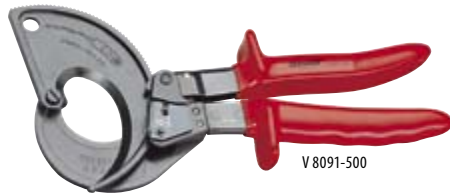
## V 8091 CABLE CUTTER

1000 V

- > For cutting copper and aluminium cables
- > Genuine single-hand operation, with optimum transfer of force. Handles ergonomically designed for fatigue-free constant use. Little hand pressure required even at maximum loading. For step-by-step cutting with burr-free cut, may be opened in every cutting position. With locking lever.
- > Tool body in high-tensile special steel
- > Cutting edges and important functional parts tempered or specially hardened
- > Red plastic handles insulated
- > Individually tested, insulation up to 1000 V
- > V 8091-320: single-core cable, max. Ø 25 mm (1"), multi-core cable, max. Ø 32 mm (1.1/4")
- > V 8091-500: multi-core cable, max. Ø 52 mm (2.1/32")



V 8091-320



V 8091-500

↳ mm	↕ kg	Code	No.
280	0.792	6725130	V 8091-320
280	0.999	6725210	V 8091-500

## VDE 8094 VDE CABLE SHEARS

1000 V

with VDE dipped insulation

- > For cutting multi-core copper and aluminium cables up to Ø 20 mm
- > When using first and final cuts, the diameter increases to Ø 25 mm
- > The handle width remains within the range of ergonomic single-hand operation
- > First cut: Use the front blade to cut the cable sheath
- > Final cut: Place the cable in the back blade and separate the wire(s)
- > Cutting edges additionally inductively hardened
- > Precision ground for optimum action, new cutting-edge geometry
- > Adjustable screw joint with finger protection
- > Not suitable for steel wire or hard-drawn copper wire
- > Special tool steel, forged, gun-metal finish
- > Handles with VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900, two-ply Check-Tool insulation



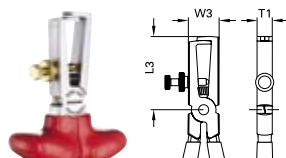
Ø	mm <sup>2</sup>	↳ mm	↳ inch	↕ kg	Code	No.
20	70	200	8.1/2	0.423	6725050	VDE 8094

## VDE 8098 VDE STRIPPING PLIERS

1000 V

with VDE dipped insulation

- > Opening stop, spring and brass adjusting screw
- > For cables 0.8 - 6.0 mm<sup>2</sup>
- > GEDORE special hardened and tempered steel, chrome-plated
- > Handles with VDE dipped insulation up to 1000 V, acc. to EN 60900/IEC 60900, two-ply Check-Tool insulation



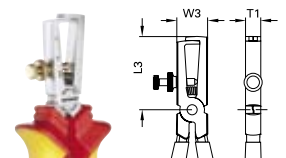
L	L <sub>2</sub>	W <sub>3</sub>	T <sub>1</sub>	mm <sup>2</sup>	↕ kg	Code	No.
160	43.5	18.5	8.5	0,8-6	0.217	6708980	VDE 8098-160

## VDE 8098 H VDE STRIPPING PLIERS

1000 V

with VDE insulating sleeves

- > Opening stop, spring and brass adjusting screw
- > For cables 0.8 - 6.0 mm<sup>2</sup>
- > GEDORE special hardened and tempered steel, chrome-plated
- > Handles with VDE insulating sleeves up to 1000 V, acc. to EN 60900/IEC 60900



L	L <sub>2</sub>	W <sub>3</sub>	T <sub>1</sub>	mm <sup>2</sup>	↕ kg	Code	No.
160	43.5	18.5	8.5	0,8-6	0.204	1552074	VDE 8098-160 H

## VDE 8099

### VDE STRIPPING PLIERS STRIP-FIX



with VDE dipped insulation

- > Self-adjusting
- > For cables 0.5 - 5.0 mm<sup>2</sup>
- > GEDORE special hardened and tempered steel, oil-hardened, chrome-plated
- > Handles with VDE dipped insulation up to 1000 V, acc. to EN 60900/IEC 60900, two-ply Check-Tool insulation
- > Pair of spare knives no. E-8099



mm	inch	mm <sup>2</sup>	kg	Code	No.
160	6.1/2	0,5-5	0.226	6709600	VDE 8099-160

## VDE 8099 H

### VDE STRIPPING PLIERS STRIP-FIX



with VDE insulating sleeves

- > Self-adjusting
- > For cables 0.5 - 5.0 mm<sup>2</sup>
- > V-shaped cutting jaws for stripping the plastic insulation of single- and multi-core conductors
- > GEDORE special hardened and tempered steel, oil-hardened, chrome-plated
- > Handles with VDE insulating sleeves up to 1000 V, acc. to EN 60900/IEC 60900
- > Pair of spare knives no. E-8099



mm	inch	mm <sup>2</sup>	kg	Code	No.
160	6.1/2	0,5-5	0.211	1552082	VDE 8099-160 H

## E-8099

### PAIR OF SPARE KNIVES

for stripping pliers STRIP-FIX

kg	Code	No.
0.012	5709580	E-8099

## VDE 8131 AB

### VDE MULTIPLE PLIERS

with VDE insulating sleeves, angled pattern



- > Particularly tailored to the needs of electricians, in VDE execution with the following functions:
- > Cable cutter: enables easy cutting of cables up to 5x2.5 mm<sup>2</sup> resp. Ø 12 mm
- > Stripping blades: stripping possibility for wires 1,5 mm<sup>2</sup> and 2,5 mm<sup>2</sup>
- > Crimp profile: crimping of conductor end-sleeves
- > Toothed gripping face: special holding capacity when pulling cables and wires during installations
- > Angled plier tip: guarantees gentle work for wrists and gives sight on to the workpiece
- > Space-saving in the pocket, only one tool is needed
- > Handles with VDE insulating sleeves up to 1000 V, acc. to EN 60900/IEC 60900



mm	kg	Code	No.
200	0.217	2910845	VDE 8131 AB-200 H

## VDE 146

### VDE UNIVERSAL PLIERS

7 settings



- > Gripping pliers with safety box joint and finger protection
- > GEDORE special chrome-vanadium steel
- > Handles with VDE dipped insulation up to 1000 V, acc. to EN 60900/IEC 60900, two-ply Check-Tool insulation



mm	mm	kg	Code	No.
250	31	0.485	6120140	VDE 146 10



## VDE 8250 VDE HEAVY DUTY COMBINATION PLIERS



with VDE dipped insulation

- > For heavy continuous use
- > Good lever action for easy cutting
- > Induction-hardened precision cutting edges, hardness 62 - 64 HRC
- > For flat and round material
- > To cut all wire types including piano wire, 1.6 mm
- > GEDORE special hardened and tempered steel, chrome-plated
- > Handles with VDE dipped insulation up to 1000 V, acc. to EN 60900/IEC 60900, two-ply Check-Tool insulation



L	L <sub>3</sub>	W <sub>3</sub>	W <sub>4</sub>	T <sub>1</sub>		Code	No.
160	35.0	22.8	5.8	10.4	0.236	1429582	VDE 8250-160
180	38.5	25.6	6.5	11.0	0.312	6720090	VDE 8250-180
200	39.5	27.0	6.5	12.4	0.365	6720250	VDE 8250-200
225	42.2	27.7	6.5	13.0	0.485	6720330	VDE 8250-225

## VDE 8250 H VDE HEAVY DUTY COMBINATION PLIERS



with VDE insulating sleeves

- > For heavy continuous use
- > Good lever action for easy cutting
- > Induction-hardened precision cutting edges, hardness 62 - 64 HRC
- > For flat and round material
- > To cut all wire types including piano wire, 1.6 mm
- > GEDORE special hardened and tempered steel, chrome-plated
- > Handles with VDE insulating sleeves up to 1000 V, acc. to EN 60900/IEC 60900



L	L <sub>3</sub>	W <sub>3</sub>	W <sub>4</sub>	T <sub>1</sub>		Code	No.
160	35.0	22.8	5.8	10.4	0.228	1550942	VDE 8250-160 H
180	38.5	25.6	6.5	11.0	0.288	1550950	VDE 8250-180 H
200	39.5	27.0	6.5	12.4	0.369	1550969	VDE 8250-200 H

## VDE 8314 VDE SIDE CUTTER



with VDE dipped insulation

- > With slender head - ideal for confined spaces
- > Induction-hardened precision cutting edges, hardness 63 - 65 HRC
- > For medium-hard wire, 1.6 mm
- > GEDORE special hardened and tempered steel, chrome-plated
- > Handles with VDE dipped insulation up to 1000 V, acc. to EN 60900/IEC 60900, two-ply Check-Tool insulation



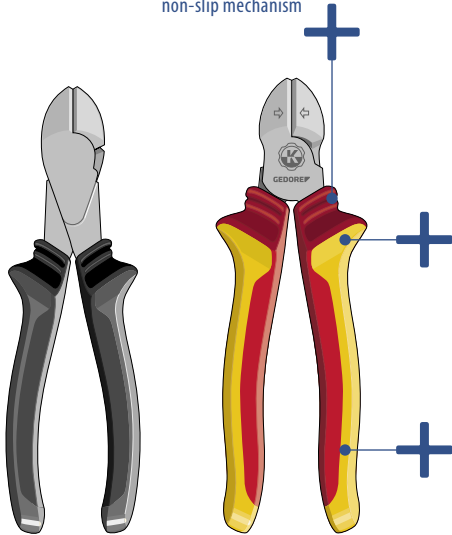
L	L <sub>3</sub>	W <sub>3</sub>	T <sub>1</sub>	∅		Code	No.
140	18.5	18.5	9.5	1,6	0.199	6743540	VDE 8314-140
160	19.0	22.0	10.0	1,6	0.253	6743620	VDE 8314-160



# (VDE) 8314-180

Particularly suitable for electrical installation work

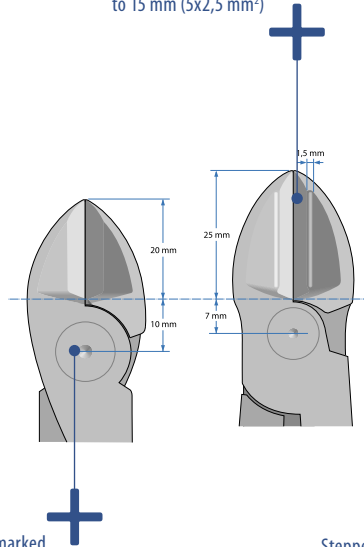
Max. safety when used under voltages thanks to the long, insulated handle with non-slip mechanism



Long contoured handle for a heightened transfer of force and improved stable hold particularly with large cable diameters

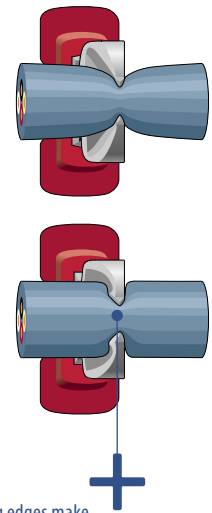
Convex handle shape for a high force build-up\*

Longer XL cutting edges than comparable side cutters cables allow cables to be cut from a Ø up to 15 mm (5x2,5 mm<sup>2</sup>)



Power side cutter thanks to a marked transfer of the pivot to the cutter

Stepped cutting edges make "cutting" easier and protect the cutting material



\* Crowned surfaces/handles - i.e. which are hardly rounded - prevent unfavourable, punctual peak forces. As a result, the force is evenly spread across your hand.

## VDE 8314-180 H VDE SIDE CUTTER with VDE insulating sleeves

**NEW**

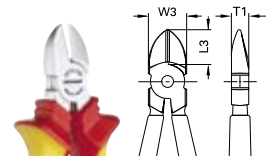
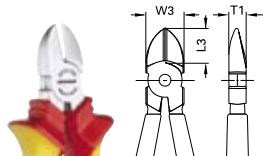


- > With slender head - ideal for confined spaces
- > Induction-hardened precision cutting edges, hardness 63 - 65 HRC
- > For hard wire/piano wire
- > Max. cutting capacity Ø 1.6 - 2.0 mm
- > GEDORE special hardened and tempered steel, chrome-plated
- > Handles with VDE insulating sleeves up to 1000 V, acc. to EN 60900/IEC 60900

## VDE 8314 H VDE SIDE CUTTER with VDE insulating sleeves



- > With slender head - ideal for confined spaces
- > Induction-hardened precision cutting edges, hardness 63 - 65 HRC
- > For medium-hard wire, 1.6 mm
- > GEDORE special hardened and tempered steel, chrome-plated
- > Handles with VDE insulating sleeves up to 1000 V, acc. to EN 60900/IEC 60900



L	L <sub>3</sub>	W <sub>3</sub>	T <sub>1</sub>	Ø	kg	Code	No.
185	25	26	11	1,6-2,0	0.297	2910950	VDE 8314-180 H

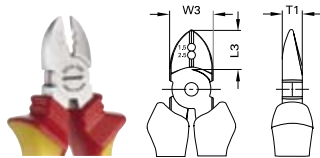
L	L <sub>3</sub>	W <sub>3</sub>	T <sub>1</sub>	Ø	kg	Code	No.
140	18.5	18.5	9.5	1,6	0.177	1552155	VDE 8314-140 H
160	19.0	22.0	10.0	1,6	0.231	1552163	VDE 8314-160 H



## VDE 8315 H VDE ELECTRICIANS' SIDE CUTTER

with VDE insulating sleeves

- > Double-function electricians' side cutters for cutting and wire stripping
- > Stripping holes for single- or multi-core conductors 1.5 and 2.5 mm<sup>2</sup>
- > Induction-hardened precision cutting edges
- > GEDORE special hardened and tempered steel, chrome-plated
- > Handles with VDE insulating sleeves up to 1000 V, acc. to EN 60900/IEC 60900



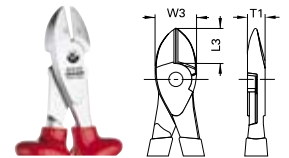
L	L <sub>1</sub>	W <sub>3</sub>	T <sub>1</sub>	mm <sup>2</sup>	∅		Code	No.
160	19.0	22.0	10.0	1,5 / 2,5	1,6	0.231	1742582	VDE 8315-160 H



## VDE 8316 VDE POWER SIDE CUTTER

with VDE dipped insulation

- > Good lever action for easy cutting
- > Induction-hardened precision cutting edges, hardness 63 - 65 HRC
- > For hard wire/piano wire - values see table
- > Max. cutting capacity ∅ 1.8 - 2.0 mm
- > GEDORE special hardened and tempered steel, chrome-plated
- > Handles with VDE dipped insulation up to 1000 V, acc. to EN 60900/IEC 60900, two-ply Check-Tool insulation



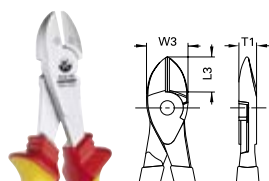
L	L <sub>1</sub>	W <sub>3</sub>	T <sub>1</sub>	∅		Code	No.
180	22.6	26.0	11.0	1,8	0.285	1429590	VDE 8316-180
200	22.0	28.0	11.0	2,0	0.341	6742570	VDE 8316-200



## VDE 8316 H VDE POWER SIDE CUTTER

with VDE insulating sleeves

- > Good lever action for easy cutting
- > Induction-hardened precision cutting edges, hardness 63 - 65 HRC
- > For hard wire/piano wire - values see table
- > Max. cutting capacity ∅ 1.8 - 2.0 mm
- > GEDORE special hardened and tempered steel, chrome-plated
- > Handles with VDE insulating sleeves up to 1000 V, acc. to EN 60900/IEC 60900

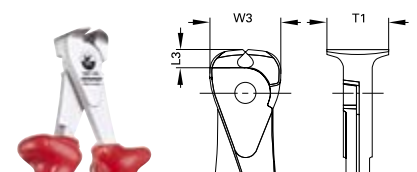


L	L <sub>1</sub>	W <sub>3</sub>	T <sub>1</sub>	∅		Code	No.
180	22.6	26.0	11.0	1,8	0.267	1550993	VDE 8316-180 H
200	22.0	28.0	11.0	2,0	0.344	1551000	VDE 8316-200 H



## VDE 8367 VDE HEAVY DUTY END CUTTING NIPPERS

- > Good lever action for easy cutting
- > Induction-hardened precision cutting edges, hardness 63 - 65 HRC
- > For hard wire/piano wire 1.6 mm
- > GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- > Handles with VDE dipped insulation up to 1000 V, acc. to EN 60900/IEC 60900, two-ply Check-Tool insulation



L	L <sub>1</sub>	W <sub>3</sub>	T <sub>1</sub>	∅		Code	No.
160	6.9	27.0	23.5	1,6	0.220	2324830	VDE 8367-160



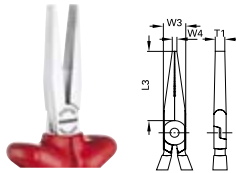


## VDE 8120 VDE FLAT NOSE PLIERS



with VDE dipped insulation

- > Long, flat jaws and serrated gripping surfaces
- > GEDORE special hardened and tempered steel, chrome-plated
- > Handles with VDE dipped insulation up to 1000 V, acc. to EN 60900/IEC 60900, two-ply Check-Tool insulation



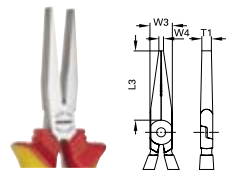
L	L <sub>3</sub>	W <sub>3</sub>	W <sub>4</sub>	T <sub>1</sub>		Code	No.
160	51.0	16.5	3.4	9.0	0.185	6715330	VDE 8120-160

## VDE 8120 H VDE FLAT NOSE PLIERS



with VDE insulating sleeves

- > Long, flat jaws and serrated gripping surfaces
- > GEDORE special hardened and tempered steel, chrome-plated
- > Handles with VDE insulating sleeves up to 1000 V, acc. to EN 60900/IEC 60900



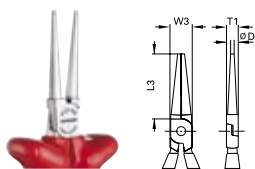
L	L <sub>3</sub>	W <sub>3</sub>	W <sub>4</sub>	T <sub>1</sub>		Code	No.
160	51.0	16.5	3.4	9.0	0.175	1552090	VDE 8120-160 H

## VDE 8122 VDE ROUND NOSE PLIERS



with VDE dipped insulation

- > Long, round jaws and serrated gripping surfaces
- > GEDORE special hardened and tempered steel, chrome-plated
- > Handles with VDE dipped insulation up to 1000 V, acc. to EN 60900/IEC 60900, two-ply Check-Tool insulation



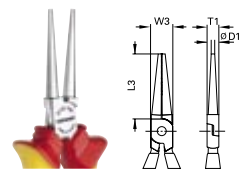
L	L <sub>3</sub>	W <sub>3</sub>	D <sub>1</sub>	T <sub>1</sub>		Code	No.
160	48	16.5	2.5	8.7	0.170	6717110	VDE 8122-160

## VDE 8122 H VDE ROUND NOSE PLIERS



with VDE insulating sleeves

- > Long, round jaws and serrated gripping surfaces
- > GEDORE special hardened and tempered steel, chrome-plated
- > Handles with VDE insulating sleeves up to 1000 V, acc. to EN 60900/IEC 60900



L	L <sub>3</sub>	W <sub>3</sub>	D <sub>1</sub>	T <sub>1</sub>		Code	No.
160	48	16.5	2.5	8.7	0.154	1552104	VDE 8122-160 H

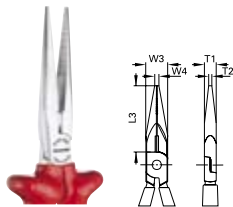


## VDE 8132 VDE TELEPHONE PLIERS



with VDE dipped insulation, straight pattern

- > Long, flat-round jaws, straight gripping faces, serrated
- > Induction-hardened precision cutting edges, hardness 61 - 63 HRC
- > GEDORE special hardened and tempered steel, chrome-plated
- > Handles with VDE dipped insulation up to 1000 V, acc. to EN 60900/IEC 60900, two-ply Check-Tool insulation



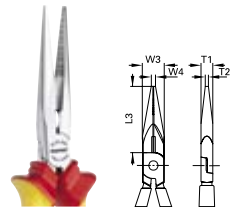
L	L <sub>1</sub>	W <sub>3</sub>	W <sub>4</sub>	T <sub>1</sub>	T <sub>2</sub>		Code	No.
160	50.0	16.5	3.2	9.0	2.5	0.193	6721570	VDE 8132-160
200	75.7	18.5	3.7	9.5	2.8	0.248	6721650	VDE 8132-200

## VDE 8132 H VDE TELEPHONE PLIERS



with VDE insulating sleeves, straight pattern

- > Long, flat-round jaws, straight gripping faces, serrated
- > Induction-hardened precision cutting edges, hardness 61 - 63 HRC
- > GEDORE special hardened and tempered steel, chrome-plated
- > Handles with VDE insulating sleeves up to 1000 V, acc. to EN 60900/IEC 60900



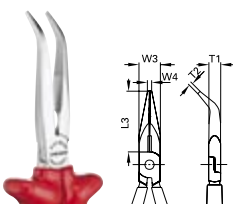
L	L <sub>1</sub>	W <sub>3</sub>	W <sub>4</sub>	T <sub>1</sub>	T <sub>2</sub>		Code	No.
160	50.0	16.5	3.2	9.0	2.5	0.164	1552112	VDE 8132-160 H
200	75.7	18.5	3.7	9.5	2.8	0.235	1552120	VDE 8132-200 H

## VDE 8132 AB VDE BENT NOSE TELEPHONE PLIERS



with VDE dipped insulation, angled pattern

- > Long, flat-round jaws, angled gripping surfaces, serrated
- > Induction-hardened precision cutting edges, hardness 61 - 63 HRC
- > GEDORE special hardened and tempered steel, chrome-plated
- > Handles with VDE dipped insulation up to 1000 V, acc. to EN 60900/IEC 60900, two-ply Check-Tool insulation



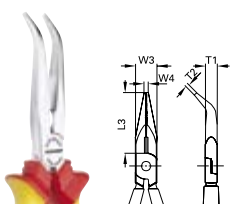
L	L <sub>1</sub>	W <sub>3</sub>	W <sub>4</sub>	T <sub>1</sub>	T <sub>2</sub>		Code	No.
160	46.0	16.5	3.2	9.0	2.5	0.177	6721730	VDE 8132 AB-160
200	70.5	18.5	3.7	9.5	2.8	0.252	6721810	VDE 8132 AB-200

## VDE 8132 AB H VDE BENT NOSE TELEPHONE PLIERS



with VDE insulating sleeves, angled pattern

- > Long, flat-round jaws, angled gripping surfaces, serrated
- > Induction-hardened precision cutting edges, hardness 61 - 63 HRC
- > GEDORE special hardened and tempered steel, chrome-plated
- > Handles with VDE insulating sleeves up to 1000 V, acc. to EN 60900/IEC 60900



L	L <sub>1</sub>	W <sub>3</sub>	W <sub>4</sub>	T <sub>1</sub>	T <sub>2</sub>		Code	No.
160	46.0	16.5	3.2	9.0	2.5	0.173	1552139	VDE 8132 AB-160 H
200	70.5	18.5	3.7	9.5	2.8	0.235	1552147	VDE 8132 AB-200 H

## VDE S 8003

### VDE PLIERS SET WITH VDE DIPPED INSULATION



3 pieces

- > Packed in environmentally-friendly cardboard box
- > Handles with VDE dipped insulation up to 1000 V, acc. to EN 60900/IEC 60900, two-ply Check-Tool insulation



Contents		Code	No.
VDE 8132-160	0.760	6708120	VDE S 8003
VDE 8250-180			
VDE 8314-160			

## VDE S 8003 H

### VDE PLIERS SET WITH VDE INSULATING SLEEVES



3 pieces

- > Packed in environmentally-friendly cardboard box
- > Handles with VDE insulating sleeves up to 1000 V, acc. to EN 60900/IEC 60900



Contents		Code	No.
VDE 8132-160 H	0.747	1550594	VDE S 8003 H
VDE 8250-180 H			
VDE 8314-160 H			

## 1101-003 VDE

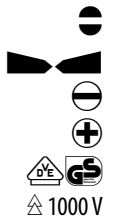
### VDE TOOL SET

in i-BOXX® 72, 8 pieces

- > VDE basic assortment
- > VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900, except voltage tester no. 4615
- > In GEDORE i-BOXX® 72, with transparent cover for getting an immediate impression
- > Dimensions: W 367 x D 316 x H 72 mm



**NEW**



Contents		Code	No.
VDE 8132-200 H	1.700	1828045	1101-003 VDE
VDE 8250-180 H			
VDE 8314-160 H			
VDE 2170 4 5,5			
VDE 2160 PH 1 2			
4615 3			

1101 L

>62



1102 L

>63



## 1102-002 VDE VDE PLIERS SET

3 pieces

- > Handles with VDE insulating sleeves up to 1000 V, acc. to EN 60900/IEC 60900
- > In GEDORE L-BOXX® Mini, incl. divider set
- > Dimensions: W 260 x D 155 x H 63 mm



Contents	kg	Code	No.
VDE 8132-160 H	0.920	1692291	1102-002 VDE
VDE 8250-180 H			
VDE 8314-160 H			

NEW



## 1102-004 VDE VDE PLIERS SET

3 pieces

- > Handles with VDE insulating sleeves up to 1000 V, acc. to EN 60900/IEC 60900
- > In GEDORE L-BOXX® Mini, incl. divider set
- > Dimensions: W 260 x D 155 x H 63 mm



Contents	kg	Code	No.
VDE 8098-160 H	0.950	1708244	1102-004 VDE
VDE 8250-180 H			
VDE 8314-160 H			

NEW



## 1102-005 VDE VDE PLIERS SET

3 pieces

- > Handles with VDE insulating sleeves up to 1000 V, acc. to EN 60900/IEC 60900
- > With VDE Power side cutter and VDE Multiple pliers
- > In GEDORE L-BOXX® Mini, incl. divider set
- > Dimensions: W 260 x D 155 x H 63 mm



Contents	kg	Code	No.
VDE 8314-180 H	0.950	2951762	1102-005 VDE
VDE 8131 AB-200 H			
VDE 2162 PZ 1			

NEW



## 1102-006 VDE VDE TOOL SET

4 pieces

- > Handles with VDE insulating sleeves up to 1000 V, acc. to EN 60900/IEC 60900
- > For all usual electric master cabinets incl. multi fitting key
- > In GEDORE L-BOXX® Mini, incl. divider set
- > Dimensions: W 260 x D 155 x H 63 mm



Contents	kg	Code	No.
VDE 8131 AB-200 H	0.863	2951770	1102-006 VDE
VDE 2172 3,5			
VDE 2164 SL/PH 2 45 E			

NEW



# S 1023

## TOOL ASSORTMENT FOR MECHANICAL ENGINEERS

120 pieces

- > Practical entry-level toolset
- > The range includes mechanical and electrical engineering tools
- > Suitable to fit in GEDORE tool trolley workster
- > Recommended hook assortment no. 1500 HS-1023 (53 pieces)



Contents	13.0	Code	No.
<b>120 tools in metric sizes</b>		1999060	S 1023
<b>Contents</b>	<b>Contents</b>	<b>Contents</b>	<b>Contents</b>
<b>1 B</b> 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<b>VDE 8132</b> -200 H	<b>600 H</b> -500	
<b>D 20</b> 4 5 6 7 8 9 10 11 12 13	<b>VDE 8250</b> -180 H	<b>248 ST</b> -30	
<b>680</b> 4-25 5,5-25 6,5-25	<b>VDE 8314</b> -160 H	<b>8701</b> 2-8	
<b>685</b> 3-25 4-25 5-25 6-25	<b>VDE 2170</b> 4,5,5	<b>8719</b> 2-8	
<b>685 X</b> 5-25 6-25 8-25	<b>VDE 2160 PH</b> 12	<b>8722</b> 2-8	
<b>687 TX</b> T10-25 T15-25 T20-25 T25-25 T27-25 T30-25 T40-25	<b>VDE 4616</b>	<b>403</b>	
<b>690</b> 1-25 2-25	<b>4615</b> 3	<b>4528</b>	
<b>690 PZD</b> 1-25 2-25 3-25	<b>171 IS</b> 1,2,1,5,2	<b>710</b>	
<b>620</b>	<b>165 PH</b> 00 0	<b>745</b>	
<b>676</b>	<b>8305</b> -2	<b>4534</b> -3	
<b>699</b>	<b>8306</b> -5	<b>298</b> -04	
<b>2090</b> -4	<b>42</b> 1,3 1,5 2 (5/64AF) 2,5 3 4 5 6 8 10	<b>8354</b> -1	
<b>2093 U-20</b>	<b>97</b> -150	<b>8139</b> -220 TC	
<b>1993 U-20</b>	<b>100</b> -10		
<b>1990</b> -5 -10	<b>119</b> -3 -5		
<b>1995</b>			
<b>1987</b>			
<b>19</b> 8 9 10 11 12 13 14 15 16 17 18 19 21 22 24 27 30 32			




# S 1093










## VDE TOOL ASSORTMENT







26 pieces

- > Particularly suited as the initial outfit for electrical specialists
- > The GEDORE tool case or tool trolley are suited for mobile assignments
- > Recommended hook assortment 1500 HS-1093 (26 pieces)



Contents		Code	No.
<b>26 tools in metric sizes</b>	4.8	2319942	S 1093

Contents	
 <b>142 10 C</b>	
 <b>VDE 8250 -180 H</b>	
 <b>VDE 8132 -160 H</b>	
 <b>VDE 8314 -160 H</b>	
 <b>VDE 2170 4,5,6,8</b>	
 <b>VDE 2160 PZ 12</b>	
 <b>VDE 4616</b>	
 <b>42 2 (5/64AF) 2,5 3 4 5 6 8 10</b>	
 <b>4533 -2</b>	

Contents	
 <b>4528</b>	
 <b>8097</b>	
 <b>600 H -500</b>	
 <b>112 A -250</b>	
 <b>110 HS -318</b>	
 <b>0175 -06</b>	

# 1090 TOOL CASE ELECTRICIAN

90 pieces



- > The perfect tool set for the electrician or property manager
- > A thoughtful assortment for the work to be done
- > Packed in a strong plastic case
- > Aluminium frame, three steel hinges, screwed handle, fitted with built in locks
- > May be used wherever the right tools have to be always at hand
- > GEDORE vanadium tools, chrome-plated
- > Dimensions: W 480 x D 370 x H 180 mm



Contents	kg	Code	No.
<b>Tool set S 1090</b> <b>+ tool case WK 1090 L</b>	13.2	6601590	1090
<b>6</b> 14x17 18x19 21x23 22x24		<b>VDE 2160 PH 1 2</b>	<b>VDE 8120 -160</b>
<b>8</b> 4,4,5,5,5,6,7,8,9,10,11,12,13		<b>VDE 2170</b> 3,5,4,5,6,5	<b>VDE 8250 -180</b>
<b>20</b> 4,4,5,5,5,6,7,8,9,10,11,13		<b>4615</b> 3,5	<b>VDE 8132 AB -160</b>
<b>2087</b>		<b>173</b> 5,5,8	<b>VDE 8316 -200</b>
<b>2095</b>		<b>174</b> 1	<b>95 -175</b>
<b>2098</b>		<b>745</b>	<b>99</b> 10-2 10-4
<b>2090 -4</b>		<b>0513-09</b>	<b>101</b>
<b>2093 U -3</b>		<b>4534 -3</b>	<b>112 A -250</b>
<b>42</b> 2 (5/64AF) 2,5 3 4 5 6 7 8 10		<b>401</b>	<b>112 S</b>
<b>60 CP 10</b>		<b>401 A</b> [10x]	<b>600 H -300</b>
<b>156 S</b>		<b>145</b> 10 JC	<b>72 H -100</b>
<b>2153</b> 5,5		<b>8096 -140</b>	
<b>2161 PH 1</b>		<b>VDE 8098 -160</b>	
<b>2160 PZ 1 2</b>			<b>E-1090</b> LK LZ LF LS



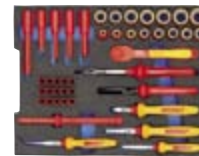
**NEW**

# 1100-1094

## VDE TOOL ASSORTMENT HYBRID

53 pieces

- > The perfect range of tools for repairs and maintenance of hybrid and electric vehicles
- > For vehicles of all the manufacturers
- > All tools insulated on the basis of EN 60900/EC 60900
- > GEDORE L-BOXX® 136 compatible with the Sortimo® vehicle interior fittings in your service mobile



Contents

Contents	Code	No.
<b>VDE 30 6 8 9 10 11 12 13 14</b>	<b>VDE 2160 PH 1 2 3</b>	<b>VDE 8132 AB-200 H</b>
<b>15 16 17 18 19 20 22</b>	<b>VDE 2163 TX T20 T25 T30</b>	<b>VDE 8120-160 H</b>
<b>VDE INX 30 8 10 12</b>	<b>VDE 8094</b>	<b>VDE 4522</b>
<b>VDE 3090-3 -6</b>	<b>VDE 146 10</b>	<b>V 914 1 2 3</b>
<b>VDE 3093 U</b>	<b>VDE 8250-200 H</b>	
<b>VDE 2170 2,5 3,5 4 5,5</b>	<b>VDE 8314-180 H</b>	

Contents	Code
	<b>VDE 30 6 8 9 10 11 12 13 14 15 16 17 18 19 20 22</b>
	<b>VDE INX 30 8 10 12</b>
	<b>VDE 3090 -3 -6</b>
	<b>VDE 3093 U</b>
	<b>VDE 2170 2,5 3,5 4 5,5</b>
	<b>VDE 2160 PH 1 PH 2 PH 3</b>
	<b>VDE 2163 TX T20 T25 T30</b>
	<b>VDE 8094</b>

Contents	Code
	<b>VDE 146 10</b>
	<b>VDE 8250 -200 H</b>
	<b>VDE 8314 -180 H</b>
	<b>VDE 8132 AB -200 H</b>
	<b>VDE 8120 -160 H</b>
	<b>VDE 4522</b>
	<b>V 914</b>
	<b>V 914 1 [5x] V 914 2 [5x]</b>
	<b>V 914 3 [5x]</b>



# VDE 1001

## VDE TOOL SET

14 pieces

- > With practical foam insert in sturdy PVC case
- > Dimensions: 395 x 295 x 106 mm
- > Cranked allen socket screwdriver no. 42 is for locking the adjusting screw of extension no. VDE 1990, not VDE insulated



Contents	Code	No.	Contents	Contents
<b>VDE 19 10 12 13 14 17 19 22 24</b>	3.460	6602560	<b>VDE 19 10 12 13 14 17 19 22 24</b>	<b>VDE 1989 T</b>
<b>VDE 1993 U</b>		VDE 1001		<b>VDE 2170 5,5</b>
<b>VDE 1990-5 -10</b>				<b>42 2,5</b>
<b>VDE 1989 T</b>				
<b>VDE 2170 5,5</b>				
<b>42 2,5</b>				



## VDE 910 VDE RUBBER COVER SHEET



- > VDE protective equipment acc. to VDE 0680, Part 1
- > Thickness: 1.6 mm
- > Rolled storage prevents from cracking!



L	W		Code	No.
<b>130</b>	130	0.040	1826816	VDE 910 13
<b>250</b>	350	0.210	1826832	VDE 910 25
<b>500</b>	500	0.430	1827030	VDE 910 50
<b>600</b>	600	0.700	1828193	VDE 910 60
<b>1000</b>	1000	1.800	1828207	VDE 910 100
<b>1200</b>	1200	2.950	1828215	VDE 910 120

## V 911 VDE INSULATION MAT

△ 1000 V

- > VDE protective equipment acc. to VDE 0303
- > Thickness: 4.5 mm
- > Rolled storage prevents from cracking!



L	W		Code	No.
<b>1000</b>	1000	6.0	1828258	V 911 100
<b>10000</b>	1000	60.0	1828266	V 911 1000

## V 912 VDE ELECTRICIANS' SAFETY GLOVES

△ 1000 V

- > Acc. to DIN EN 60903
- > Made of natural latex



	Code	No.
<b>0.215</b>	1828274	V 912 9
<b>0.215</b>	1828282	V 912 10

## V 912 UNDER-GLOVES for VDE 912



	Code	No.
<b>0.050</b>	1828290	V 912 50

## V 915 NH-FUSE INSERTION GLOVE WITH SLEEVE

△ 1000 V

- > To work on NH fuse inserts sizes 00 to 3
- > To insert and remove low-tension high-performance fuses (NH fuse inserts)
- > Can also be used for other devices applied instead of the fuse inserts, e.g. earthing and short-circuiting devices, inserting or removing blind fuse elements
- > With contact blades to DIN 43620 Part 1, sizes 00 - 3 for nominal voltage to 600 V alternating voltage



	Code	No.
<b>0.460</b>	2661314	V 915

## V 913 PLASTIC CLAMP 1000 V



- > For fixing and joining plastic clamps
- > Inserted steel spring which externally cannot be accessed
- > For working under voltage up to 1000 V



V 913 80



V 913 160

		Code	No.
<b>80</b>	0.030	1828304	V 913 80
<b>160</b>	0.070	1828312	V 913 160



## V 914 VDE METER CONNECTION FITTINGS

⚡ 1000 V

- > For insulating single cores
- > Conical form
- > Made from resilient plastic
- > V 914 1 with Designation 1
- > V 914 2 with Designation 2
- > V 914 3 with Designation 3



l-mm>	∅	⚖	Code	No.
80	10	0.005	2324938	V 914 1
80	10	0.005	2324946	V 914 2
80	10	0.005	2324954	V 914 3

## V 917 CABLE SPLITTING WEDGE

⚡ 1000 V

- > Insulated acc. to IEC 60900
- > From polyamide
- > Suitable for mounting cable feeder terminals and splaying primary conductor cables
- > Assistance when cutting cable cores, no slipping



⚖	Code	No.
0.160	2661462	V 917

## VDE 4522 VDE CABLE KNIFE

⚡ GS  
⚡ 1000 V

- > Strong, straight blade made from hardened and tempered steel
- > Tough, resilient plastic handle
- > VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900



⚖	Code	No.
0.104	6690400	VDE 4522

## VDE 4522 K VDE CABLE KNIFE

⚡ GS  
⚡ 1000 V

- > Strong, straight blade made from hardened and tempered steel
- > 2-component plastic handle
- > VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900



⚖	Code	No.
0.105	2661497	VDE 4522 K

## VDE 4527 VDE CABLE KNIFE with hooked blade

⚡ GS  
⚡ 1000 V

- > For slitting and stripping damp-proof installation cables
- > With blade protector
- > VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900



⚖	Code	No.
0.098	6698490	VDE 4527

## VDE 4527 K VDE CABLE KNIFE with hooked blade

⚡ GS  
⚡ 1000 V

- > For slitting and stripping damp-proof installation cables
- > Blade from hardened and tempered steel
- > With blade protector
- > VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900



⚖	Code	No.
0.105	2661489	VDE 4527 K




## 4528 UNIVERSAL CABLE KNIFE


- > For stripping round cables, 4 - 28 mm
- > Hooked blade for separating cable strips and flat cables
- > No need to put down the knife when the blade is automatically switched from all-round to elongated cut
- > The cutting depth of the pivoting internal knife E-4528 is adjustable



### E-4528 INTERNAL KNIFE

- > The cutting depth of the pivoting internal knife is adjustable

			Code	No.
50	170	0.155	6698300	4528

	Code	No.
0.111	1448161	E-4528

## 4529 MULTI-USE CABLE KNIFE



**NEW**


- > For stripping round cables, 4 - 28 mm
- > Integrated stripping function for flexible and single-strand conductors
- > No need to put down the knife when the blade is automatically switched from all-round to elongated cut
- > The cutting depth of the pivoting internal knife E-4529 is adjustable



### E-4529 INTERNAL KNIFE



- > The cutting depth of the pivoting internal knife is adjustable

		Code	No.
145	0.150	2955393	4529

	Code	No.
0.111	2955407	E-4529

## 4629 INSULATING TAPE





L m			Code	No.
10	15	0.032	6699540	4629

## V 406 HACKSAW

 1000 V

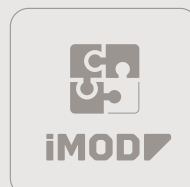
- > For pinned hacksaw blades, 148 mm
- > Insulated handle up to 1000 V



		Code	No.
265	0.229	6120060	V 406

More insulated tools 1000 V on request!  
Haven't you found the right tool?

Ask us about custom-orders.  
Your problems are our assignments.





# INSTALLATION TOOLS

**PIPE CUTTERS**  
FOR STEEL AND CAST  
IRON PIPES  
>598



**PIPE CUTTERS / PIPE  
DEBURRING REAMER**  
FOR STAINLESS STEEL  
PIPES  
>600



**PIPE CUTTERS / PIPE  
DEBURRING REAMER /  
CALIBRATING TOOL**  
FOR COPPER PIPES  
>602



**PIPE CUTTERS**  
FOR PLASTIC PIPES  
>604



**FLARING TOOLS**  
>606



**INSTALLATION TOOLS**  
>609



## Installation Tools

# APPLICATIONS OF THE GEDORE PIPE CUTTERS

	No. 210015	No. 2180..	No. 220...	No. 222...	No. 2250 3	No. 226100	No. 2268..	No. 2270..	No. 2300..	No. 2303..	No. 231000	No. 231011
Steel pipes EN 10255	3"-12"		1/8-2" (220020)	1/8-2" (222020)								
Steel pipes EN 10220			1.1/4-4" (220040)	1.1/4-4" (222040)								
Cast iron pipes EN 545, SML pipes EN 877	DN 80-300		DN 6-32 (220020) DN 32-100 (220040)	DN 6-32 (222020) DN 32-100 (222040)								
Electrical installation pipes EN 60423		M 12-32 (2180 3) M 12-40 (2180 4) M 12-63 (2180 5)								M 12-32 (230311) M 16-63 (230321)		M 12-16
Multi-layer composite pipes							≤ 42 mm (2268 2) ≤ 63 mm (2268 3)	6-76 mm (2270 5) 50-127 mm (2270 6)				
Plastic pipes					16, 19, 25 mm		≤ 42 mm (2268 2) ≤ 63 mm (2268 3)	6-76 mm (2270 5) 50-127 mm (2270 6)				
Copper pipes EN 1057		3-35 mm (2180 3)										
Sheated copper pipes		3-45 mm (2180 4)			3-35 mm				4-32 mm (230010) 13-65 mm (230020)	4-32 mm (230311) 13-65 mm (230321)	4-16 mm	4-16 mm
Thin-walled NF pipes		6-76 mm (2180 5)										
Hydraulic pipes EN 10305-1 (DIN 2391)		3-35 mm (2180 3)	10-42 mm (220020)	10-42 mm (222020)					4-32 mm (230010) 13-65 mm (230020)	4-32 mm (230311) 13-65 mm (230321)	4-16 mm	4-16 mm
Precision steel pipes EN 10305-3 (DIN 2394)		3-45 mm (2180 4) 6-76 mm (2180 5)	42-114 mm (220040)	42-114 mm (222040)	3-35 mm							
Stainless steel pipes EN 10088-3 (DIN 17 440)		3-35 mm (2180 3) 3-45 mm (2180 4) 6-76 mm (2180 5)	10-42 mm (220020 + 220221)	10-42 mm (222020 + 220221)						4-32 mm (230311) 13-65 mm (230321)		4-16 mm


\*) depending on size / finish / pipe properties

## Pipe Cutters for steel and cast iron pipes

### 210 LINK PIPE CUTTER

for steel, SML and cast iron pipes

- › Low space requirements due to ratchet-type operation
- › In the standard version suitable for pipes from 85 to 175 mm Ø
- › Can be extended if needed with extension set no. 210100, see table "Cutting range link pipe cutter no. 210015"
- › Enamelled blue

Ø mm	Wall thickness	 kg	Code	No.
85-175	3,2-8,0	5.7	4536250	210015

### CUTTING RANGE OF THE LINK PIPE CUTTER NO. 210015


Cutting range from min. Internal Ø mm to max. External Ø mm	Number of cutting wheels	Accessories required
85 - 115	3*	
110 - 145	4*	
135 - 175	5	
165 - 200	6	1 x 210100
190 - 225	7	2 x 210100
220 - 250	8	3 x 210100
240 - 280	9	4 x 210100
270 - 300	10	5 x 210100
295 - 330	11	6 x 210100

\* the link pipe cutter must be reduced by the corresponding number of cutting wheels




### E 210 EXTENSION KIT

- › For extending the cutting range at No. 210015
- › For more information see table "Cutting range link pipe cutter no. 210015"

Contents	 kg	Code	No.
<b>1 Cutting wheel for steel No. 210200</b>	0.400	2799626	210100
<b>1 Spare link No. 210500</b>			
<b>1 Spare bolt No. 210600</b>			

### E 210 SPARE PARTS



Description	Ø D	b	Ø d	 kg	Code	No.
<b>Cutting wheel for 210015</b>	50	11	11	0.080	4536410	210200
<b>Spare link for 210015</b>				0.290	4551480	210500
<b>Spare bolt for 210015</b>				0.027	4536680	210600

## 220 PIPE CUTTER TUBEX

for steel, SML and cast iron pipes

- > Heavy-duty pipe cutter with 1 cutting wheel
- > By exchanging the cutting wheels, may also be used for stainless steel pipes (size 2")
- > Frame in malleable cast steel
- > With elastic feed using especially-installed spring system (size 2")
- > Spindle protected by sleeve extension
- > Enamelled blue, spindle gun-metal finished

Version with 3 cutting wheels see no. 222



Size	Ø mm	Wall thickness	l- mm -l	⌀ kg	Code	No.
1/8-2	10-60	2,0-6,3	380	2.9	4503400	220020
1.1/4-4	42-114	2,6-8,0	520	5.0	4503590	220040

## 222 PIPE CUTTER TUBEX

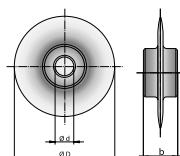
for steel, SML and cast iron pipes

- > Heavy-duty pipe cutter with 3 cutting wheels
- > Ideal for working in confined, hard-to-reach places, since the cutter does not need to be turned through 360°
- > By exchanging the cutting wheels, may also be used for stainless steel pipes (size 2")
- > Frame in malleable cast steel
- > With elastic feed using especially-installed spring system (size 2")
- > Spindle protected by sleeve extension
- > Enamelled blue, spindle gun-metal finished



Size	Ø mm	Wall thickness	l- mm -l	⌀ kg	Code	No.
1/8-2	10-60	2,0-6,3	380	2.7	4537060	222020
1.1/4-4	42-114	2,6-8,0	520	4.8	4553420	222040

## E 220 - E 222 SPARE PARTS



Description	Ø D	b	Ø d	⌀ kg	Code	No.
Cutting wheel for 220020, 222020	32	19	9	0.028	4503750	220220
Cutting wheel for niro for 220020, 222020	32	19	9	0.028	1524038	220221
Cutting wheel for 220040, 222040	41	19	9	0.038	4503830	220240
Wheel bolt for 220020, 222020				0.015	4552450	220620
Wheel and pressure roller bolt for 220040, 222040				0.019	4552530	220640



## Pipe Cutters for stainless steel pipes

### 2180 PIPE CUTTER

for stainless steel pipes

- > Easy cutting due to ball-bearing pressure rollers and cutting wheels
- > Cutting wheel changeable without tools
- > With retractable deburring tool, spare cutting wheel in handle
- > Cutting wheel with high service life

- > No. 2180 3 and 2180 4 body in pressure-cast magnesium, no. 2180 5 body in pressure-cast aluminium
- > No. 2180 5 with quick-release
- > Enamelled blue



Ø mm	Wall thickness	l mm	kg	Code	No.
3-35	0,7-2,5	160	0.335	2964066	2180 3
3-45	0,7-2,5	180	0.355	2964074	2180 4
6-76	0,7-2,5	245	0.880	2964082	2180 5

### E 2180 SPARE PARTS



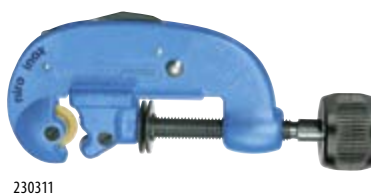
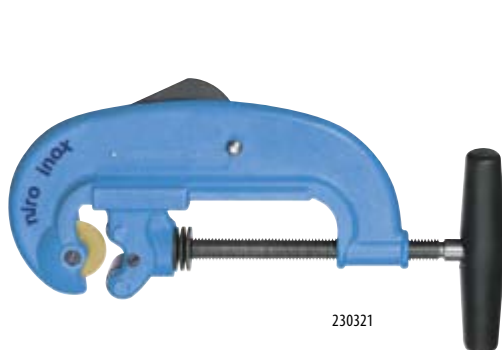
Description	Ø D	b	Ø d	kg	Code	No.
<b>Cutting wheel for 2180 3, 2180 4</b>	20	5.1	4.8	0.005	2964090	E-2180 3 A
<b>Cutting wheel for 2180 5</b>	20	6.2	4.8	0.008	2964104	E-2180 5 A
<b>Wheel bolt for 2180 3, 2180 4, 2250 3</b>				0.002	2964112	E-2180 3 B
<b>Wheel bolt for 2180 5, 2270 5</b>				0.005	2964120	E-2180 5 B

### 2303 PIPE CUTTER QUICK AUTOMATIC NIRO

for stainless steel pipes

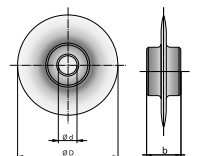
- > Body in pressure-cast zinc
- > Cutting wheel made from high-alloy stainless steel, with high service life

- > Automatic infeed by plate springs
- > Enamelled blue



Ø mm	Wall thickness	l mm	kg	Code	No.
4-32	0,7-3,0	165	0.430	1154990	230311
13-65	1,0-3,0	275	1.420	1154850	230321

### E 2303 SPARE PARTS



Description	Ø D	b	Ø d	kg	Code	No.
<b>Cutting wheel for stainless steel</b>	20	4.8	5.1	0.005	1154710	230411
<b>Cutting wheel for stainless steel</b>	32	9.9	6.1	0.018	1154680	230421
<b>Wheel bolt</b>				0.003	1154656	230611
<b>Wheel bolt</b>				0.003	1154540	230621



# 231011

## MINIATURE PIPE CUTTER MINI-QUICK NIRO

for stainless steel pipes

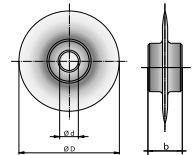
- > Particularly suitable for barely accessible places
- > Body in pressure-cast zinc
- > Cutting wheel with high service life
- > Enamelled blue



$\varnothing$ mm	Wall thickness	l mm	kg	Code	No.
4-16	0,7-2,0	50	0.125	4554070	231011

# E 231011

## SPARE PARTS



Description	$\varnothing$ D	b	$\varnothing$ d	kg	Code	No.
<b>Cutting wheel for stainless steel</b>	20	4.8	5.1	0.005	1154710	230411
<b>Wheel bolt</b>				0.003	1154656	230611

## Pipe Deburring Reamer for stainless steel pipes

# 2325

## PIPE DEBURRING REAMER

for stainless steel pipes

- > For internal and external deburring of stainless steel pipes
- > Aluminium body
- > Hardened taper section with 40 deburring blades



$\varnothing$ mm	l mm	kg	Code	No.
8-35	60	0.180	1857681	232501
10-56	85	0.420	1419684	232500

224011 / 224021

>546



4589

>546



## Pipe Cutters for copper pipes

**NEW**

### 2250 PIPE CUTTER

for copper pipes

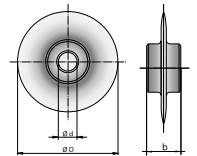
- > For copper, brass, and light-alloy pipes, PVC hard plastic and plastic-coated pipes, thin-walled steel pipes, (precision steel and hydraulic pipes), composite pipes
- > Cutting wheel changeable without tools
- > With retractable deburring tool, spare cutting wheel in handle

- > Body in pressure-cast magnesium
- > Enamelled blue



∅ mm	Wall thickness	l mm	kg	Code	No.
3-35	0,7-2,0	160	0.335	2964031	2250 3

### E-2250 SPARE PARTS

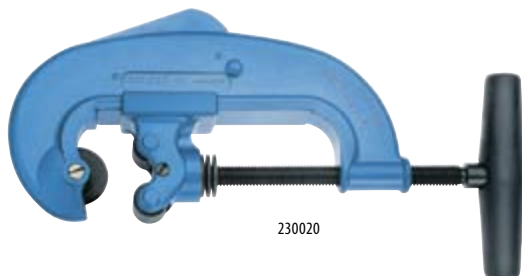


Description	∅ D	b	∅ d	kg	Code	No.
<b>Cutting wheel for 2250 3</b>	20	5.1	4.8	0.005	2964058	E-2250 3 A
<b>Wheel bolt for 2180 3, 2180 4, 2250 3</b>				0.002	2964112	E-2180 3 B

### 2300 PIPE CUTTER QUICK AUTOMATIC

- > Body in pressure-cast zinc
- > For copper, brass, and light-alloy pipes, PVC hard plastic and plastic-coated pipes, thin-walled steel pipes, (precision steel and hydraulic pipes), composite pipes

- > With automatic infeed by plate springs, retractable deburring knife
- > Enamelled blue

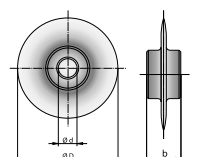


230010

230020

∅ mm	Wall thickness	l mm	kg	Code	No.
4-32	0,7-3,0	165	0.435	4504050	230010
13-65	1,0-7,3	275	1.460	4504130	230020

### E 2300 SPARE PARTS



Description	∅ D	b	∅ d	kg	Code	No.
<b>Cutting wheel</b>	20	4.8	5.1	0.005	4504640	230210
<b>Cutting wheel</b>	32	9.9	6.1	0.018	4504800	230220
<b>Wheel bolt</b>				0.003	1154656	230611
<b>Wheel bolt</b>				0.003	1154540	230621

## 2310

### MINIATURE PIPE CUTTER MINI-QUICK

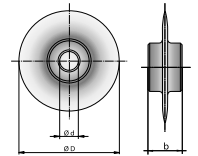
- > Particularly suitable for barely accessible places
- > For copper, brass, and light-alloy pipes, thin-walled steel pipes (precision steel and hydraulic pipes)
- > Body in pressure-cast zinc
- > Enamelled blue



$\varnothing$ mm	Wall thickness	↳ mm ↴	$\frac{kg}{kg}$	Code	No.
4-16	0,7-3,0	50	0.125	4504560	231000

## E 2310

### SPARE PARTS



Description	$\varnothing$ D	b	$\varnothing$ d	$\frac{kg}{kg}$	Code	No.
<b>Cutting wheel</b>	20	4.8	5.1	0.005	4504640	230210
<b>Wheel bolt</b>				0.003	1154656	230611

### Pipe Deburring Reamer for copper pipes

### Calibrating Tools for copper pipes

## 2320

### PIPE DEBURRING REAMER

- > For hydraulic and precision steel pipes, copper pipes, as well as pipes in non-ferrous metals
- > For internal and external deburring
- > Plastic body



$\varnothing$ mm	↳ mm ↴	$\frac{kg}{kg}$	Code	No.
4-32	45	0.030	1439510	232001

## 239

### CALIBRATING TOOL

- > For exact calibrating of tube ends
- > For semi-hard and soft copper pipes
- > Gun-metal finish



$\varnothing$ mm	$\frac{kg}{kg}$	Code	No.
12 x 1	0.067	4506340	239012
15 x 1	0.138	4506420	239015
18 x 1	0.179	4506500	239018
22 x 1	0.270	4506690	239022



## Pipe Cutters for plastic pipes

# 2270 PIPE CUTTER

for plastic and composite pipes

- > To cleanly cut multi-layer composite pipes or other plastic pipes
- > Cutting wheel changeable without tools
- > With retractable deburring tool, spare cutting wheel in handle
- > No. 2270 5 with adjustable third pressure roller for optimally guiding different pipe dimensions
- > With quick-release
- > Body in pressure-cast aluminium
- > Enamelled blue



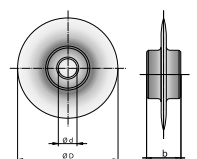
2270 6



2270 5

Ø mm	Wall thickness	l mm	kg	Code	No.
6-76	1,5-8,6	245	0.880	2964015	2270 5
50-127	4,0-19,8	345	1.630	2963957	2270 6

## E-2270 SPARE PARTS



Description	Ø D	b	Ø d	kg	Code	No.
Cutting wheel for 2270 5	30	6.2	4.8	0.008	2964023	E-2270 5 A
Cutting wheel for 2270 6	51	11.0	8.1	0.015	2963973	E-2270 6 A
Wheel bolt for 2180 5, 2270 5				0.005	2964120	E-2180 5 B
Wheel bolt for 2270 6				0.010	2963981	E-2270 6 B

## 2261 SHEARS SET


for plastic pipes


> To cleanly cut hard and soft plastic pipes, rubber hoses with or without textile reinforcement, and as well as various plastic profiled sections, such as cable ducts, for example

> Contains form blocks for 16, 19 and 25 mm pipes, 1 prism for profiles and 1 angle stop adjustable up to 45°  
> Delivery in plastic case



### E 2261 SPARE PARTS

Description		Code	No.
<b>Shear set for plastic pipes</b>	1.050	1637983	226100

Description		Code	No.
<b>Spare knife</b>	0.050	1680137	226005

## 2268 PIPE SHEARS

for plastic pipes


> Suitable to cut PE-, PP-, PB-, PEX-, PPR-, MLP-/MSR-, VPE-, CPVC-, PVC- and PVDF-pipes  
> Can also be used for hoses  
> Smooth and accurate cutting, one hand operation


> Cutting blades changeable without tools  
> Body in pressure-cast magnesium  
> Enamelled blue



### E-2268 SPARE PARTS



Ø mm	l mm		Code	No.
42	245	0.430	2963841	2268 2
63	280	0.610	2963892	2268 3

Description		Code	No.
<b>Spare knife for 2268 2</b>	0.080	2963914	E-2268 2 A
<b>Spare knife for 2268 3</b>	0.160	2963930	E-2268 3 A
<b>Spare bolt for 2268 2 / 3</b>	0.005	2963949	E-2268 B




## Flaring Tools


# 2330 FLARING TOOL BOERDEX

- > For flaring copper and light-alloy pipes of various hardnesses
- > For cooling systems and refrigeration technique
- > Body in pressure-cast zinc, enamelled blue
- > Flange cone 90° hardened = 45° angled from pipe
- > Clamping jaws made from steel, smooth inside, phosphated
- > Opening angle 90° = 45° angled from pipe

Flaring tools for brake lines see no. 1101-2340

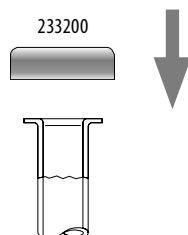
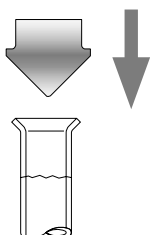


Contents		Code	No.
for metric pipes 4, 4.75, 6, 8, 10, 12, 14 mm 1 flaring tool No. 233000 1 cone for 180° flaring No. 233200 1 clamping jaw 4-14 mm No. 233101	1.4	4537300	233001
for metric pipes 15, 16, 17, 18, 19 mm 1 flaring tool No. 233000 1 cone for 180° flaring No. 233200 1 clamping jaw 15-19 mm No. 233109	1.4	1919725	233009
for inch pipes 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4" 1 flaring tool No. 233000 1 cone for 180° flaring No. 233200 1 clamping jaw 3/16-3/4" No. 233107	1.5	4554660	233007

Contents		Code	No.
for metric pipes 4, 4.75, 6, 8, 10, 12, 14 mm for inch pipes 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4" 1 flaring tool No. 233000 1 cone for 180° flaring No. 233200 1 clamping jaw 4-14 mm No. 233101 1 clamping jaw 3/16-3/4" No. 233107	2.1	2926741	233013
for metric pipes 4, 4.75, 6, 8, 10, 12, 14, 15, 16, 17, 18, 19 mm 1 flaring tool No. 233000 1 cone for 180° flaring No. 233200 1 clamping jaw 4-14 mm No. 233101 1 clamping jaw 15-19 mm No. 233109	2.0	2926768	233014

CONE 90°

CONE 180°



920

>565



# 1101-2333

## FLARING TOOL SET BOERDEX

in i-BOXX® 72

- > For flaring copper and light-alloy pipes of various hardnesses
- > For cooling systems and refrigeration technique
- > Body in pressure-cast zinc, enamelled blue
- > Flange cone 90° hardened = 45° angled from pipe
- > With cone for 180° flaring = 90° angle from pipe
- > Clamping jaws made from steel, smooth inside, phosphated
- > Complete set for metric and metric/inch pipes
- > With pipe cutter 3-35 mm Ø
- > Delivery in GEDORE i-BOXX® 72 no. 1101 L
- > Dimensions: W 367 x D 316 x H 72 mm

Flaring tools for brake lines see no. 1101-2340



Contents	⚖️	Code	No.
for metric pipes 4, 4.75, 6, 8, 10, 12, 14 mm	2.9	4555550	1101-233301
1 flaring tool No. 233000			
1 clamping jaw 4-14 mm No. 233101			
1 pipe cutter 4-32 mm No. 230010			
1 cone 180° No. 233200			
1 sheet steel case No. 233909			
for metric pipes 15, 16, 17, 18, 19 mm	2.9	1919733	1101-233309
1 flaring tool No. 233000			
1 clamping jaw 15-19 mm No. 233109			
1 pipe cutter 4-32 mm No. 230010			
1 cone 180° No. 233200			
1 sheet steel case No. 233909			
for inch pipes 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4"	3.0	4556280	1101-233307
1 flaring tool No. 233000			
1 clamping jaw 3/16-3/4" No. 233107			
1 pipe cutter 4-32 mm No. 230010			
1 cone 180° No. 233200			
1 sheet steel case No. 233909			

Contents	⚖️	Code	No.
for metric pipes 4, 4.75, 6, 8, 10, 12, 14 mm	3.6	2926776	1101-233313
for inch pipes 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4"			
1 flaring tool No. 233000			
1 clamping jaw 4-14 mm No. 233101			
1 clamping jaw 3/16-3/4" No. 233107			
1 pipe cutter 4-32 mm No. 230010			
1 cone 180° No. 233200			
1 sheet steel case No. 233909			
for metric pipes 4, 4.75, 6, 8, 10, 12, 14, 15, 16, 17, 18, 19 mm	3.5	2926784	1101-233314
1 flaring tool No. 233000			
1 clamping jaw 4-14 mm No. 233101			
1 clamping jaw 15-19 mm No. 233109			
1 pipe cutter 4-32 mm No. 230010			
1 cone 180° No. 233200			
1 sheet steel case No. 233909			

## E 233

### PARTS



2331



233200

Description	⚖️	Code	No.
Flaring tool boerdex	0.660	4554150	233000
Clamping jaw 4-14 mm	0.620	4554820	233101
Clamping jaw 15-19 mm	0.560	1885162	233109
Clamping jaw 3/16" - 3/4"	0.680	4555470	233107
Cone for 180° flaring (= 90° angled from pipe)	0.015	4505450	233200
Pipe cutter for copper pipes 3-35 mm	0.335	2964031	2250 3



# 1101-2340 DOUBLE FLARING TOOL SET

in i-BOXX® 72

- > For standard-compliant (DIN 74234) double flaring tools
- > For brake lines, coolant lines, hydraulic and pneumatic pipes with a wall thickness of 0.7 to 1.0 mm
- > Body in tempered cast iron GTW 40, stove enamelled blue
- > Clamping jaws made from steel, smooth inside, phosphated
- > Complete set for metric and/or inch pipes
- > With pipe deburring reamer 4-32 mm Ø and miniature pipe cutter 4-16 mm Ø
- > Delivery in GEDORE i-BOXX® 72 No. 1101 L
- > Dimensions: W 367 x D 316 x H 72 mm



Contents	Weight	Code	No.
<b>for metric pipes</b>	3.0	4505530	1101-234001
1 basic frame No. 234000			
1 clamping jaw metric No. 234101			
6 cones 4,75-10 mm No. 234204-234210			
2 cones, No. 234790 + 234801			
1 miniature pipe cutter 4-16 mm No. 231000			
1 pipe deburring reamer 4-32 mm No. 232001			
1 GEDORE i-BOXX® 72 No. 1101 L			

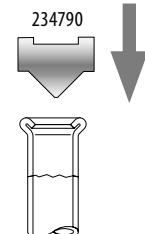
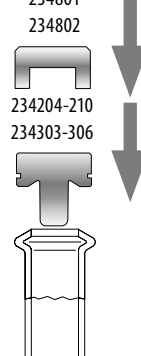
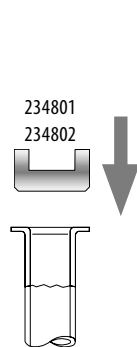
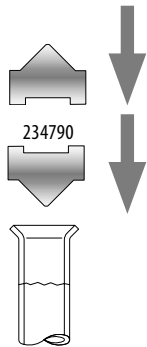
Contents	Weight	Code	No.
<b>for metric + inch pipes</b>	4.2	4662980	1101-234013
1 basic frame No. 234000			
2 clamping jaws No. 234101 + 234102			
6 cones 4,75-10 mm No. 234204-234210			
4 cones 3/16-3/8" No. 234303-234306			
3 cones No. 234790 + 234801-802			
1 miniature pipe cutter 4-16 mm No. 231000			
1 pipe deburring reamer 4-32 mm No. 232001			
1 GEDORE i-BOXX® 72 No. 1101 L			

## CONE 90°

## CONE 180°

## FLARE F OPEN

## FLARE E DOUBLE



## E 2340 PARTS



Description	Weight	Code	No.
<b>Basic frame</b>	0.880	4556440	234000
<b>Clamping jaw metric</b>	0.760	4556520	234101
<b>Clamping jaw inch</b>	0.760	4556600	234102
<b>Cone 4,75 mm for flare types E + F</b>	0.018	4556790	234204
<b>Cone 5 mm for flare types E + F</b>	0.018	4556870	234205
<b>Cone 6 mm for flare types E + F</b>	0.018	4556950	234206
<b>Cone 8 mm for flare types E + F</b>	0.018	4557090	234208
<b>Cone 9 mm for flare types E + F</b>	0.018	4557170	234209
<b>Cone 10 mm for flare types E + F</b>	0.018	4557250	234210
<b>Cone 3/16" for flare types E + F</b>	0.018	4557330	234303
<b>Cone 1/4" for flare types E + F</b>	0.018	4557410	234304

Description	Weight	Code	No.
<b>Cone 5/16" for flare types E + F</b>	0.018	4557680	234305
<b>Cone 3/8" for flare types E + F</b>	0.018	4557760	234306
<b>Cone (adjustment gauge) for flare types 90° + 180° and cone 90° + flare E</b>	0.016	4557840	234790
<b>Cone (adjustment gauge), metric, 180°, for flare types E + F</b>	0.011	4557920	234801
<b>Cone (adjustment gauge), inch, 180°, for flare types E + F</b>	0.011	4558060	234802
<b>Pipe cutter MINI-QUICK, 4-16 mm</b>	0.125	4504560	231000
<b>Pipe deburring reamer 4-32 mm</b>	0.030	1439510	232001





## Installation Tools

### 312 VALVE HOLDER VENTI-QUICK

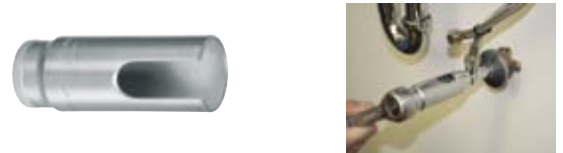
- > In aluminium
- > Drain valve holder and screw-in wrench for eccentric and standard valves 1.1/4"
- > Usable from top or bottom



↳ mm ↯	⚖️	Code	No.
120	0.255	4508980	312000

### 314 CORNER VALVE SOCKET WRENCH

- > Chrome-vanadium steel 31CrV3, hardened, zinc-plated
- > For surface-protective assembling of all usual corner valves
- > With chamfered driving edges
- > 1/2" internal square drive



↳ mm ↯	internal Ø	⚖️	Code	No.
82	27	0.150	1147471	314000

### 3170 INSTALLATION WRENCH

- > For washbasin mountings
- > With moveable stud screw insert for bathroom fittings attachment M10 or M12
- > Open end spanner size 17x19 mm for tightening or loosening of corner valves



for stud screws	Size	↳ mm ↯	⚖️	Code	No.
<b>M10</b>	17x19 mm	250	0.330	4509360	317000
<b>M12</b>	17x19 mm	250	0.330	4609310	317012

### 3175 INSTALLATION WRENCH

- > For washbasin mountings
- > With moveable stud screw insert for bathroom fittings attachment M10 or M12
- > With reversible ring ratchet size 17 mm for tightening or loosening of bathroom fittings connections even in hard-to-reach areas
- > Open end spanner size 19 mm for tightening or loosening of corner valves
- > GEDORE vanadium steel 31CrV3, matt chrome-plated



for stud screws	Size	↳ mm ↯	⚖️	Code	No.
<b>M10</b>	17x19 mm	250	0.330	4509520	317500
<b>M12</b>	19x19 mm	250	0.330	4609580	317512

### 3171 STUD SCREW WRENCH

- > For bathroom fittings attachment (stud screws) M6, M8, M10, M12
- > With pivotable thread insert
- > Nickel-plated



↳ mm ↯	⚖️	Code	No.
220	0.300	4509440	317100

### 3173 STUD SCREW INSERTER

- > Self-gripping
- > For the fast and easy insertion and removal of studs, bolts, etc.
- > With hexagon drive

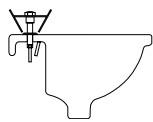


Size	⚖️	Code	No.
<b>M6</b>	0.130	1523171	317306
<b>M8</b>	0.130	1523198	317308
<b>M10</b>	0.130	1523201	317310
<b>M12</b>	0.130	1523228	317312



## 3165 BASIN WRENCH

- > For single lever taps and taps with central screw connection up to size 36 mm
- > With 13 mm hexagon drive and additional adaptors for 9, 10, 11 and 14 mm
- > With pivoted hook for right or left hand operation
- > Enamelled blue



↳ mm	kg	Code	No.
260	0.410	2829274	316500

## 320 WRENCH FOR PLUMBING FITTINGS

- > With pawl clamp
- > With exchangeable plastic jaws no. 320100, width 8 mm
- > For nickel-plated and chrome-plated fittings
- > Chrome-vanadium steel 31CrV3, hardened, chrome-plated
- > Handle enamelled blue



mm	mm	↳ mm	kg	Code	No.
65	45	275	0.720	4509600	320000

Description	kg	Code	No.
Set of plastic jaws	0.010	4540520	320100

## 126 STRAP WRENCH

- > Very gentle to surfaces, particularly suitable for chrome-plated fittings and polished surfaces
- > Handle in light metal, enamelled blue
- > With high-strength nylon strap



Ø mm	Ø inch	↳ mm	mm	kg	Code	No.
220	8	300	27	0.325	1468308	126008

## 329 SPECIAL SIPHON PLIERS

- > For tightening and removing screwed PVC pipe joints with round union nuts
- > With lap joint and three locking positions, jaw width 10 mm
- > No. 329001 with plastic jaws for special surface protection
- > Enamelled blue



329000



329001

Ø mm	↳ mm	kg	Code	No.
20-65	230	0.300	4510290	329000
20-65	230	0.300	1984381	329001

## E 126 SPARE STRAP

- > High-strength nylon strap



↳ mm	mm	kg	Code	No.
950	27	0.035	1468316	126208

## 376 STEPPED KEY

- > For the installation and removal of valve nipples 3/8", 1/2", 3/4", 1", 1.1/4"
- > Drive with 18 mm square
- > Enamelled blue



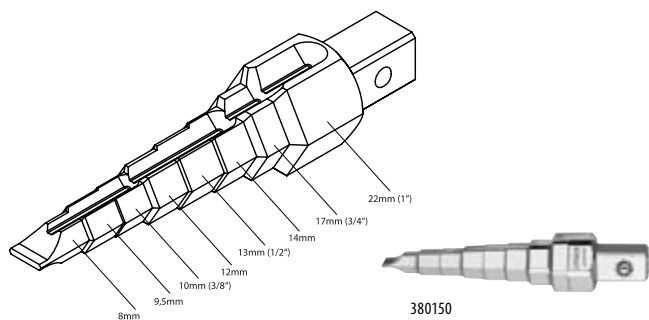
kg	Code	No.
0.245	4541250	376100

## 380 COMBINATION STEPPED KEY

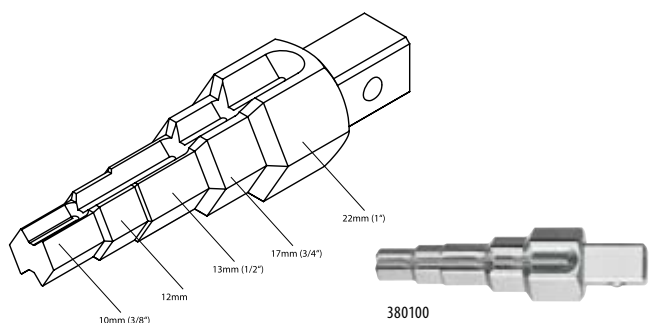
- > For the installation and removal of radiator valves, runback screwed unions 3/8" - 1" and short tap extensions
- > With pin, hexagon and bi-hexagon nut drive
- > 1/2" square drive
- > Nickel-plated



380200



380150

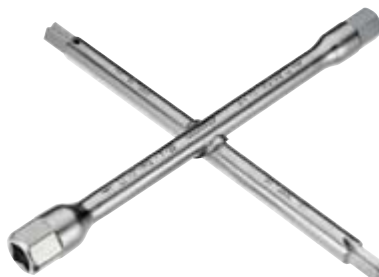


380100

Description	kg	Code	No.
<b>Combi-stepped key No. 380100 with ratchet 1/2" No. 380200</b>	0.555	4512900	380000
<b>Combi-stepped key No. 380150 with ratchet 1/2" No. 380200</b>	0.555	4630940	380001
<b>Combi-stepped key with 5 steps 3/8"-1"</b>	0.135	4513040	380100
<b>Combi-stepped key with 8 steps</b>	0.135	4611130	380150
<b>Ratchet 1/2"</b>	0.420	4513120	380200

## 3785 PLUMBER'S WRENCH

- > With 14 functions for tap extensions 3/8", 1/2", 3/4", 1"
- > Depth up to 100 mm
- > For the installation and removal of radiator valves and runback screwed unions
- > For stud screws M6, M8, M10, M12 and for screw plugs 3/8", 1/2"
- > Hexagon drive nut size 17, 22 mm
- > Chrome-plated



mm	kg	Code	No.
220 x 220	0.670	4512820	378500

## 3810 RADIATOR VALVE SPANNER

- > Spanner for tightening and removing Euro-cone radiator compression fittings with A/F 30 mm cam lock and hex nuts
- > Short, flat version with ratchet
- > Ratchet facilitates tightening of straight and elbow compression fittings underneath radiators
- > Head end socket for 1/2" extension. The extension is used as a handle and also provides higher torque
- > Side socket for 1/2" extension for working with the ratchet in front of the radiator
- > Socket for no. 3801 combination stepped key 3/4" radiator valve nipples
- > DBGM (= German Utility Patent)



381000



381030



Description	kg	Code	No.
<b>Radiator valve spanner no. 381030 with extension 1/2" no. 1990-5</b>	0.390	2233673	381000
<b>Radiator valve spanner 30 mm</b>	0.225	2233665	381030
<b>Extension 1/2" 125 mm</b>	0.188	6143860	1990-5



# BENDING SYSTEMS

## HOW DO I FIND THE RIGHT BENDING TOOL

>615



## PIPE BENDING PLIERS

NO. 2415

>618



## MANUAL PIPE BENDER - DRAW BENDING OPERATION

>619



## MANUAL BENDING TOOL SETS NO. 243

>619



## MANUAL BENDING TOOL SETS NO. 278

>620



## UNIVERSAL MANUAL PIPE BENDER NO. 276

>624



## MANUAL PIPE BENDER - PUSHING BENDING OPERATION NO. 2456

>625



## PIPE BENDING MACHINES - DRAW BENDING OPERATION

>627



## PIPE BENDING MACHINES - PUSHING BENDING OPERATION NO. 256-261

>630



## PIPE BENDING MACHINES HYDRAULIC

>633



## ECCENTRIC ANGLE BENDERS

NO. 280

>635



# TOP QUALITY TO MEET MAXIMUM REQUIREMENTS

- › Use of the most up-to-date machinery and environmentally-friendly production processes
- › Everything is based on tightly controlled and selected materials
- › Experienced and reliable specialists vouch for precision-like processing
- › Stringent quality checks after each production step ensure a constantly high level
- › High-grade industrial quality for the toughest forms of continuous use and safety in everyday work



## Everything handled down to a tee

- › The absence of Chrome 6 in the tools is simply a matter of course for us and has been so for many years.
- › Best-possible results are down to the unique manufacturing processes and special treatment for tools



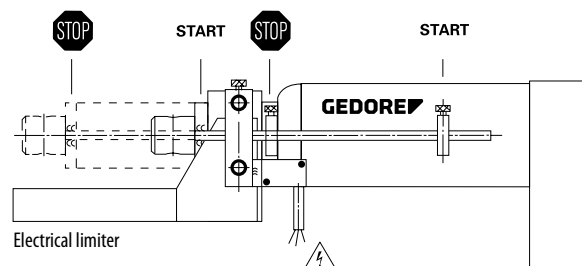
## GEDORE Pipe bending systems

### Advantages and benefits

#### Features that make the difference ...

- › Durable quality for heavy professional use
- › Gentle handling of workpieces
- › Suitable for solving problems, a variety of materials and applications
- › From simple bending pliers to an electro-hydraulic bending machine for 4" pipes
- › Hand-operated, hydraulic and electro-hydraulic
- › For the complete range of standard pipe grades

### Pipe materials



Solving problems is our strength - Please ask us!

# USEFUL INFORMATION

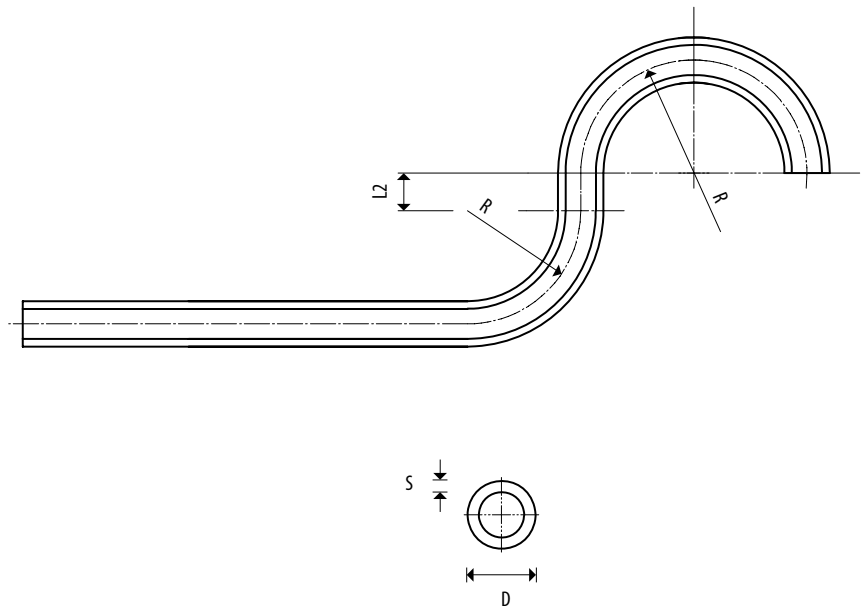
How do I find the right bending tool?

**You need to consider the following points when choosing your bending machine:**

- > Do you want to bend by hand?
- > Do you want to use a vice?
- > Is the machine to be hydraulically operated?
- > Is the machine to be electrically operated, and if so at what voltage?

**The following points also need to be taken into account; refer to adjacent sketch:**

- > The shape of the pipe to be bent (round-section, square-section, etc.)
- > The outside diameter "D" of the pipe
- > The wall thickness "S" of the pipe
- > The pipe grade (e.g. steel, stainless steel, NF metals, etc.)
- > The required bending angle (e.g. 90°, 180° ... etc.)
- > Are bending radii "R" specified? (Example: 3 x D = R - this corresponds to a 25 mm outside diameter pipe with a bending radius of 75 mm)
- > Important: the radius is measured to the middle of the tube = neutral area
- > Details of the length "L" of the overall pipe
- > Are a number of bends to be made in succession? - If so, it is essential to state the distance between the pipe bends, "L2"
- > Are there any specifications for the pipe or the finished pipe bends which go beyond the details listed here (e.g. in power-station construction, the food industry or similar)?
- > A more detailed overview of the possible uses of our pipe bending machines and tools is given in the next pages.



**GEDORE**  
WERKZEUGE FÜR LEIBEN

**Fragebogen für Biegemaschinen**

**Bitte ausfüllen:**

Name: \_\_\_\_\_

Ansprechpartner: \_\_\_\_\_

Werk: \_\_\_\_\_

Land: PLZ/Ort: \_\_\_\_\_

Tel./Fax: \_\_\_\_\_

E-Mail: \_\_\_\_\_

Datum: \_\_\_\_\_

Firma: \_\_\_\_\_

---

Zur Angebotsstellung eines für Ihre Einzelstücke geeigneten Biegegerätes benötigen wir folgende Angaben hinsichtlich:

**1. Art des Gerütes**

Wie soll das Gerüst eingestrichelt werden?  geradlinig (z.B. Handbrennvorrichtung)  mit 90°-B. (Brennvorrichtung)

Wie soll das Gerüst einstrichen werden?  ja  nein

Wie soll das Gerüst einstrichen werden?  ja  nein

Wie soll das Gerüst einstrichen werden?  ja  nein

Wie soll das Gerüst einstrichen werden?  ja  nein

Wie soll das Gerüst einstrichen werden?  ja  nein

Wie soll das Gerüst einstrichen werden?  ja  nein

Bitte die Anforderungen an das Gerüst aus Zeichnen oder Photozeichnungen, Skizzen, Sphärenzeichnungen, Einzel- oder Mehrzweckgeräten o.ä.:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Fügen Sie dieser Anfrage bitte technische Zeichnungen oder Modellbilder bei. Anlagen "techn. Zeichnung Nr. (falls angegeben)"

\_\_\_\_\_

\_\_\_\_\_

**GEDORE**  
WERKZEUGE FÜR LEIBEN

**2. Angaben zum Material**

**2.1. Material**

Stück	Material	Form	Abmessungen	Längen in mm	Stück	Stück	Stück
1	2	3	4	5	6	7	8

Stück: \_\_\_\_\_

Material: \_\_\_\_\_

Form: \_\_\_\_\_

Abmessungen: \_\_\_\_\_

Längen: \_\_\_\_\_

Stück: \_\_\_\_\_

Stück: \_\_\_\_\_

Stück: \_\_\_\_\_

**2.2. Werkstoff**

Stück	Material	Form	Abmessungen	Längen in mm	Stück	Stück	Stück
1	2	3	4	5	6	7	8

Stück: \_\_\_\_\_

Material: \_\_\_\_\_

Form: \_\_\_\_\_

Abmessungen: \_\_\_\_\_

Längen: \_\_\_\_\_

Stück: \_\_\_\_\_

Stück: \_\_\_\_\_

Stück: \_\_\_\_\_

Bitte ausfüllen:

Name: \_\_\_\_\_

Datum: \_\_\_\_\_



# APPLICATIONS OF THE GEDORE PIPE BENDER

Size	Nennweite	Outer diameter mm	Wall thickness	No. 241500 max. 90°	No. 2423... max. 90°	No. 243.../1100-243100 max. 180°	No. 245610 / 1100-245680 max. 90°	No. 245611 / 1100-245681 max. 90°	No. 249... max. 90°	No. 250... max. 90°	No. 256... max. 90°	No. 257... / 258... max. 90°	No. 259... / 260... max. 90°	No. 261... max. 90°	No. 276... max. 180°	No. 2785... / 1101-278501 max. 180°	No. 2786... / 1100-278601 max. 180°	No. 2787... max. 180°	No. 1100-278801 max. 180°
<b>Gas and water pipes EN 10255-M</b>																			
3/8"	DN 10	17,2 mm	2,35 mm						•		•	•	•		•				
1/2"	DN 15	21,3 mm	2,65 mm						•	•	•	•	•		•				
3/4"	DN 20	26,9 mm	2,65 mm						•	•	•	•	•		•				
1"	DN 25	33,7 mm	3,25 mm						•	•	•	•	•	•					
1.1/4"	DN 32	42,4 mm	3,25 mm						•	•	•	•	•	•					
1.1/2"	DN 40	48,3 mm	3,25 mm						•	•		•	•	•					
2"	DN 50	60,3 mm	3,65 mm									•	•	•					
2.1/2"	DN 65	76,1 mm	3,65 mm										•	•					
3"	DN 80	88,9 mm	4,05 mm										•	•					
4"	DN 100	114,3 mm	4,50 mm											•					
<b>Gas and water pipes EN 10255-H</b>																			
3/8"	DN 10	17,2 mm	2,90 mm						•		•	•	•		•				
1/2"	DN 15	21,3 mm	3,25 mm						•	•	•	•	•		•				
3/4"	DN 20	26,9 mm	3,25 mm						•	•	•	•	•		•				
1"	DN 25	33,7 mm	4,05 mm							•	•	•	•	•					
1.1/4"	DN 32	42,4 mm	4,05 mm							•	•	•	•	•					
1.1/2"	DN 40	48,3 mm	4,05 mm							•		•	•	•					
2"	DN 50	60,3 mm	4,50 mm									•	•	•					
2.1/2"	DN 65	76,1 mm	4,50 mm										•	•					
3"	DN 80	88,9 mm	4,85 mm										•	•					
4"	DN 100	114,3 mm	5,40 mm											•					
<b>Distilling pipes EN 10220, metric steel pipes</b>																			
3/8"	DN 10	17,2 mm	≥ 1,80 mm						•										
		20,0 mm	≥ 2,00 mm						•		•	•	•		•				
1/2"	DN 15	21,3 mm	≥ 2,00 mm						•	•	•	•	•						
		22,0 mm	≥ 2,00 mm						•		•	•	•		•				
		25,0 mm	≥ 2,00 mm						•	•	•	•	•	•	•				
3/4"	DN 20	26,9 mm	≥ 2,30 mm						•	•	•	•	•						
		28,0 mm	≥ 2,60 mm						•	•	•	•	•	•	•				
		30,0 mm	≥ 2,60 mm						•	•	•	•	•	•	•				
		32,0 mm	≥ 2,60 mm						•	•	•	•	•	•					
1"	DN 25	33,7 mm	≥ 2,60 mm						•	•	•	•	•	•					
		38,0 mm	≥ 2,60 mm						•	•		•	•	•					
		42,0 mm	≥ 2,60 mm						•	•		•	•	•					
1.1/4"	DN 32	42,4 mm	≥ 2,60 mm						•	•		•	•	•					
		44,5 mm	≥ 2,60 mm									•	•	•					
1.1/2"	DN 40	48,3 mm	≥ 2,60 mm						•	•		•	•	•					
2"	DN 50	60,3 mm	≥ 2,90 mm							•			•	•					
2.1/2"	DN 65	76,1 mm	≥ 2,90 mm										•	•					

depending on size / finish / pipe properties



Size	Nominal size	Outer diameter mm	Wall thickness	No. 241500 max. 90°	No. 2423... max. 90°	No. 243.../1100-243100 max. 180°	No. 245610/1100-245680 max. 90°	No. 245611/1100-245681 max. 90°	No. 249... max. 90°	No. 250... max. 90°	No. 256... max. 90°	No. 257.../258... max. 90°	No. 259.../260... max. 90°	No. 261... max. 90°	No. 276... max. 180°	No. 2785.../1101-278501 max. 180°	No. 2786.../1100-278601 max. 180°	No. 2787... max. 180°	No. 1100-278801 max. 180°
<b>Electrical installation pipes EN 60423</b>																			
M 12		12,0 mm	≥ 1,00 mm						●						●				
M 16		16,0 mm	≥ 1,00 mm						●						●				
M 20		20,0 mm	≥ 1,00 mm						●						●				
M 25		25,0 mm	≥ 1,20 mm						●	●					●				
M 32		32,0 mm	≥ 1,20 mm						●	●					●				
M 40		40,0 mm	≥ 1,20 mm						●	●									
M 50		50,0 mm	≥ 1,20 mm						●	●									
<b>Banister-rail tubes</b>																			
3/8"	DN 10	17,2 mm	≥ 1,75 mm						●										
1/2"	DN 15	21,3 mm	≥ 1,75 mm						●	●									
3/4"	DN 20	26,9 mm	≥ 2,00 mm						●	●									
1"	DN 25	33,7 mm	≥ 2,00 mm						●	●									
1.1/4"	DN 32	42,4 mm	≥ 2,00 mm						●	●									
1.1/2"	DN 40	48,3 mm	≥ 2,00 mm						●	●									
2"	DN 50	60,3 mm	≥ 2,00 mm							●									
<b>Multi-layer composite pipes</b>																			
		12,0 mm	≥ 1,50 mm		●		●	●	●								●		●
		14,0 mm	≥ 2,00 mm				●	●									●		●
		16,0 mm	≥ 2,00 mm				●	●	●								●		●
		18,0 mm	≥ 2,00 mm		●		●	●	●								●		●
		20,0 mm	≥ 2,00 mm				●	●	●		●	●	●					●	●
		26,0 mm	≥ 3,00 mm																
		32,0 mm	≥ 3,00 mm						●	●	●	●	●	●					
		40,0 mm	≥ 3,50 mm						●	●									
		50,0 mm	≥ 4,00 mm						●	●									
<b>Copper pipes EN 1057 half-hard, Outer diameter mm</b>					12, 15, 18, 22				12-22										
<b>Copper pipes EN 1057 soft, Outer diameter mm</b>				4,75-10	10, 12, 15, 18, 22	6-15	10-22	6-22	12-28						8-22				
<b>Sheathed copper pipes, Outer diameter mm</b>					12, 15, 18, 22		12-22	12-22	12-32						12-22				
<b>Thin-walled NF pipes, Outer diameter mm</b>				4,75-10	10, 12, 15, 18, 22	6-15			12-42	25-60,3					8-32				
<b>Hydraulic pipes EN 10305-1, Outer diameter mm</b>				4,75-6	10, 12, 15, 18	6-12	10-18	6-18	12-42	25-60,3	20-32	20-42	20-42	25-42	8-28	3-10	6-18	20-25	6-25
<b>Precision steel pipes EN 10305-3, Outer diameter mm</b>				4,75-6	10, 12, 15, 18	6-12	10-18	6-18	12-50	25-60,3	20-32	20-44,5	20-44,5	25-44,5	8-28	3-10	6-18	20-25	6-25
<b>Stainless steel pipes EN 10088-3, Outer diameter mm</b>					10, 12, 15, 18			6-18	12-50	25-60,3	20-32	20-44,5	20-44,5	25-44,5	8-28	3-10	6-18	20-25	6-25

depending on size / finish / pipe properties



## Pipe bending pliers

### 2415 PIPE BENDING PLIERS



- > Sizes from 4.75 - 10 mm Ø up to 90°
- > With 2 reversible bending forms 3/16" - 1/4" Ø (4,75 - 6 mm Ø) and 8 - 10 mm Ø
- > For soft copper pipes EN 1057, all non-ferrous metal pipes as well as thin-walled precision steel pipes and brake lines
- > Bright nickel-plated, handles PVC coated



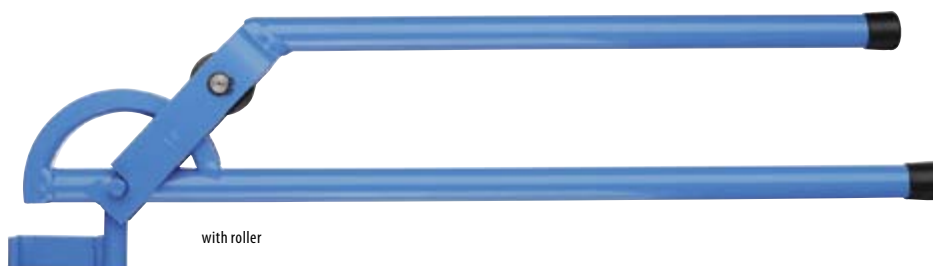
Ø mm	Ø inch	l mm	kg	Code	No.
4,75-10,0	3/16-3/8	260	0.580	1442007	241500

### 2423 PIPE BENDING PLIERS



with roller and plastic slide rail

- > Sizes from 10 to 22 mm Ø, bends up to 90°
- > For bendable steel and stainless steel pipes (up to max. 18 x 1.5 mm) as well as soft (also heat-insulated) and semi-hard copper pipes EN 1057
- > Universal use - by exchanging the roller by the plastic slide rail different pipe qualities can be worked
- > Enamelled blue



Ø mm	r = mm	l mm	kg	Code	No.
10	43	420	1.4	4564890	242310
12	45	420	1.4	4564970	242312
15	60	560	2.1	4565000	242315
18	74	820	2.9	4565190	242318
22	86	820	4.2	4565270	242322

## Manual pipe bender - Draw bending operation

1100-2431  
MANUAL BENDING TOOL SET

in L-BOXX® 136



- > Sizes from 6 to 15 mm Ø, up to 180°
- > For soft copper pipes EN 1057 (also with fixed coating), thin-walled precision steel pipes as well as pipes in non-ferrous metals
- > For clamping in a vice or useable as bending pliers
- > Power-saving due to free selectable initial bending angle
- > Easy bending with reversible ratchet 1/2" in long version
- > Enamelled blue
- > Delivery in GEDORE L-BOXX® 136 no. 1100 L
- > Dimensions: W 442 x D 357 x H 151 mm



Contents	kg	Code	No.
1 bending lever No. 243010	7.4	4568450	1100-243100
1 tool holder no. 243070			
1 reversible ratchet 1/2" no. 1993 U-10 L			
5 bending formers 8, 10, 12, 14, 15 mm			
1 pipe cutter Ø 3-35 mm no. 2250 3			
1 GEDORE L-BOXX® 136 no. 1100 L			

E 243  
PARTSE 243  
BENDING FORMER

Description	kg	Code	No.
<b>Bending lever</b>	0.980	4566320	243010
<b>Tool holder</b>	0.675	2680203	243070
<b>Reversible ratchet 1/2", long 350 mm</b>	0.696	6154550	1993 U-10 L
<b>Pipe cutter for copper pipes 3-35 mm</b>	0.335	2964031	2250 3

Ø mm	r = mm	kg	Code	No.
<b>6,0</b>	28	0.260	4566750	243050
<b>8,0</b>	28	0.250	4566830	243051
<b>10,0</b>	35	0.440	4567050	243053
<b>12,0</b>	35	0.410	4567210	243055
<b>15,0</b>	45	0.650	4567640	243058



# 2785 MANUAL BENDING TOOL SET

INOX FE

- > Sizes from 3 to 10 mm up to 180°
- > For precision steel pipes EN 10305-3 (DIN 2394), hydraulic pipes EN 10305-1 (DIN 2391), and bendable stainless steel pipes with 0.75 - 1.0 mm wall thicknesses
- > With 5 aluminium bending formers for pipes with Ø 3-4, 5, 6, 8 and 10 mm
- > For clamping in a vice or useable as bending pliers



Contents		Code	No.
<b>1 basic tool body no. 278570</b>	1.2	1589830	278500
<b>1 bending lever no. 278581</b>			
<b>5 aluminium bending formers for pipes with Ø 3-4, 5, 6, 8, 10 mm</b>			

# 1101-2785 MANUAL BENDING TOOL SET


INOX FE

in i-BOXX® 72

- > Sizes from 3 to 10 mm up to 180°
- > For precision steel pipes EN 10305-3 (DIN 2394), hydraulic pipes EN 10305-1 (DIN 2391), and bendable stainless steel pipes with 0.75 - 1.0 mm wall thicknesses
- > With 5 aluminium bending formers for pipes with Ø 3-4, 5, 6, 8 and 10 mm
- > For clamping in a vice or useable as bending pliers
- > With pipe cutter no. 231011 and pipe deburring reamer no. 232501
- > Delivery in GEDORE i-BOXX® 72 no. 1101 L
- > Dimensions: W 367 x D 316 x H 72 mm




1101-278501

Contents		Code	No.
<b>1 basic tool body no. 278570</b>	2.4	1589849	1101-278501
<b>1 bending lever no. 278581</b>			
<b>5 aluminium bending formers for pipes with Ø 3-4, 5, 6, 8, 10 mm</b>			
<b>1 miniature pipe cutter Ø 4-16 mm no. 231000</b>			
<b>1 pipe deburring reamer Ø 8-35 no. 232501</b>			
<b>1 GEDORE i-BOXX® 72 no. 1101 L</b>			

## E 2785 PARTS




Description		Code	No.
<b>Basic tool body size 0</b>	0.640	2293625	278570
<b>Bending lever size 0</b>	0.380	2293641	278581
<b>Miniature pipe cutter MINI-QUICK niro</b>	0.125	4554070	231011
<b>Pipe deburring reamer 8-35 mm</b>	0.180	1857681	232501

## E 2785 BENDING FORMER

> From high-quality aluminium



Ø mm	r = mm	Bore mm		Code	No.
<b>3-4</b>	14	16	0.020	1576798	278504
<b>5</b>	16	16	0.025	2963361	278505
<b>6</b>	16	16	0.025	1576801	278506
<b>8</b>	24	16	0.055	1576828	278508
<b>10</b>	29	16	0.085	1576836	278510

# 2786 MANUAL BENDING TOOL SET


INOX FE MT

- > Sizes from 6 to 18 mm up to 180°
- > For precision steel pipes EN 10305-3 (DIN 2394), hydraulic pipes EN 10305-1 (DIN 2391) with 1.0 - 2.0 mm wall thicknesses, composite pipes up to 16 mm as well as bendable stainless steel pipes with 1.0 - 1.5 mm wall thicknesses

- > With 8 bending formers for pipes with Ø 6, 8, 10, 12, 14, 15, 16, 18 mm
- > For clamping in a vice or in combination with tripod no. 268500 for stationary use



Vice not included

Contents	 kg	Code	No.
<b>1 basic tool body no. 278670</b>	5.3	1589857	278600
<b>1 bending lever no. 278681</b>			
<b>8 aluminium bending formers for pipes with Ø 6-8, 10-12, 14, 15, 16, 18 mm</b>			


# 1100-2786 MANUAL BENDING TOOL SET

INOX FE MT

in L-BOXX® 136

- > Sizes from 6 to 18 mm up to 180°
- > For precision steel pipes EN 10305-3 (DIN 2394), hydraulic pipes EN 10305-1 (DIN 2391) with 1.0 - 2.0 mm wall thicknesses, composite pipes up to 16 mm as well as bendable stainless steel pipes with 1.0 - 1.5 mm wall thicknesses
- > With 8 bending formers for pipes with Ø 6, 8, 10, 12, 14, 15, 16, 18 mm
- > For clamping in a vice or in combination with tripod no. 268500 for stationary use
- > With pipe cutter no. 2180 3
- > Delivery in GEDORE L-BOXX® 136 no. 1100 L
- > Dimensions: W 442 x D 357 x H 151 mm



Contents	 kg	Code	No.
<b>1 basic tool body no. 278670</b>	8.3	1611526	1100-278601
<b>1 bending lever pluggable no. 278680</b>			
<b>8 aluminium bending formers for pipes with Ø 6-8, 10-12, 14, 15, 16, 18 mm</b>			
<b>1 pipe cutter Ø 3-35 mm no. 2180 3</b>			
<b>1 pin punch 3 mm</b>			
<b>1 GEDORE L-BOXX® 136 no. 1100 L</b>			



# 1100-2788 MANUAL BENDING TOOL SET



in L-BOXX® 136

- > Sizes from 3 to 10 mm up to 180°
- > For precision steel pipes EN 10305-3 (DIN 2394), hydraulic pipes EN 10305-1 (DIN 2391) with 0.75 - 2.0 mm wall thicknesses, composite pipes up to 16 mm as well as bendable stainless steel pipes with 1.0 - 1.5 mm wall thicknesses
- > With 10 aluminium bending formers for pipes with Ø 3-4, 5, 6, 8, 10, 12, 14, 15, 16 and 18 mm
- > For clamping in a vice
- > Can be used as bending pliers up to size 10 mm
- > As from sizes 12 mm also for stationary use with tripod no. 268500
- > With pipe cutter no. 2180 3
- > Delivery in GEDORE L-BOXX® 136 no. 1100 L
- > Dimensions: W 442 x D 357 x H 151 mm



Contents

- 1 basic tool body 3-18 mm no. 278570
- 1 bending lever 3-18 mm no. 278581
- 1 basic tool body 6-18 mm no. 278670
- 1 bending lever 6-18 mm pluggable no. 278680
- 10 aluminium bending formers for pipes with Ø 3-4, 5, 6, 8, 10, 12, 14, 15, 16, 18 mm
- 1 pipe cutter Ø 3-35 mm no. 2180 3
- 1 pin punch 3 mm
- 1 GEDORE L-BOXX® 136 no. 1100 L



8.7

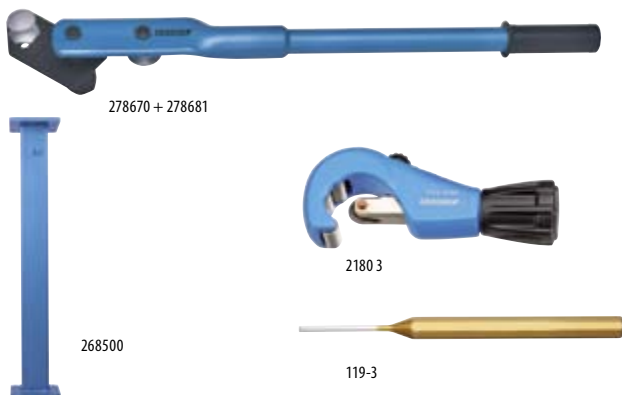
Code

2963515

No.

1100-278801

## E 2786 PARTS



## E 2786 BENDING FORMER

> From high-quality aluminium



Description	kg	Code	No.
<b>Basic tool body size 1</b>	1.2	1677209	278670
<b>Bending lever size 1</b>	2.3	2293692	278681
<b>Bending lever size 1 pluggable</b>	1.9	1626043	278680
<b>Tripod</b>	21.2	2681072	268500
<b>Pipe cutter for stainless steel pipes 3-35 mm</b>	0.3	2964066	2180 3
<b>Pin punch 3 mm</b>	0.1	8758800	119-3

Ø mm	r = mm	Bore mm	kg	Code	No.
<b>6</b>	32	30	0.200	2963442	278606
<b>8</b>	32	30	0.200	1576844	278608
<b>10</b>	36	30	0.220	2963450	278610
<b>12</b>	36	30	0.220	1576852	278612
<b>14</b>	36	30	0.200	1576879	278614
<b>15</b>	43	30	0.320	1576887	278615
<b>16</b>	43	30	0.320	1576895	278616
<b>18</b>	50	30	0.450	1576909	278618

# 2787


## MANUAL BENDING TOOL SET

INOX FE MT

- > Sizes from 20 to 25 mm up to 180°
- > For precision steel pipes EN 10305-3 (DIN 2394), hydraulic pipes EN 10305-1 (DIN 2391) with 1.5 - 2.5 mm wall thicknesses, composite pipes up to 25 mm as well as bendable stainless steel pipes with 1.5 - 2.0 mm wall thicknesses
- > For clamping in a vice
- > With 3 aluminium bending formers for pipes with  $\varnothing$  20, 22, 25 mm
- > Enamelled blue, with black plastic handles



Vice not included

Contents	 kg	Code	No.
<b>1 basic tool body no. 278770</b>	13.0	1589865	278700
<b>1 bending lever no. 278781</b>			
<b>3 aluminium bending formers for pipes with <math>\varnothing</math> 20, 22, 25 mm</b>			

## E 2787

### PARTS



278770 + 278781





268500

## E 2787

### BENDING FORMER

- > From high-quality aluminium



Description	 kg	Code	No.	$\varnothing$ mm	r = mm	Bore mm	 kg	Code	No.
<b>Basic tool body size 2</b>	4.1	2293706	278770	<b>20</b>	85	42	2.0	1576917	278720
<b>Bending lever size 2</b>	3.0	2293722	278781	<b>22</b>	85	42	2.0	1576925	278722
<b>Tripod</b>	21.2	2681072	268500	<b>25</b>	85	42	2.0	1576933	278725



# 276 UNIVERSAL PIPE BENDER



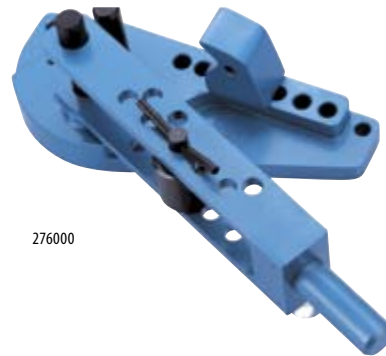
- > Sizes from 8 to 32 mm Ø and 3/8 to 3/4" up to 180°
- > For semi-hard and soft copper pipes EN 1057 up to 22 mm Ø, stainless steel pipes EN 10088-3 (DIN 17 440) up to 28 x 1.5 mm, hydraulic pipes EN 10305-1 (DIN 2391) and precision steel pipes EN 10305-3 (DIN 2394) up to 28 mm, electrical installation pipes EN 60423 up to M 32, composite pipes up to 32 mm, non-ferrous metal pipes and insulated pipes as well as gas and water pipes EN 10255 (DIN 2440/2441) up to 3/4"
- > For use in a vice or installation on the workbench
- > Set up for connecting to a length and angle stop as well as bending lever extension possible (not included)
- > Enamelled blue



276001



280130



276000



268500

Description	kg	Code	No.
<b>Basic equipment with bending lever extension no. 268230, without bending tools</b>	16.7	4600010	276000
<b>Angled stop</b>	1.8	4600280	276001
<b>Length stop</b>	0.7	4606210	280130
<b>Tripod, height 990 mm</b>	21.2	2681072	268500

## E 276 BENDING TOOLS

- > No. 276508-276532: Bending former with aluminium slide rail for metric pipes
- > No. 276103-276107: Bending former for gas and water pipes EN 10255 (DIN 2440/2441), use with

pressure roller no. 276003 (3/8-3/4")



2765



2761



276003

Description	Ø mm	Size	r = mm	Electrical installation ducts EN 60423	kg	Code	No.
<b>Bending former with slide rail 8 mm</b>	8,0		40		1.4	4601090	276508
<b>Bending former with slide rail 10 mm</b>	10,0		40		1.4	4601170	276510
<b>Bending former with slide rail 12 mm</b>	12,0		40		1.4	4601250	276512
<b>Bending former with slide rail 14 mm</b>	14,0		50		1.9	4601330	276514
<b>Bending former with slide rail 15 mm</b>	15,0		50		1.8	4601410	276515
<b>Bending former with slide rail 16 mm</b>	16,0		68		4.7	4601680	276516
<b>Bending former 3/8"</b>	17,2	3/8	50		1.6	4600600	276103
<b>Bending former with slide rail 18 mm</b>	18,0		68		4.7	4601760	276518
<b>Bending former with slide rail 20 mm</b>	20,0		68		4.6	4601920	276520
<b>Bending former 1/2"</b>	21,3	1/2	68		2.4	4600790	276105
<b>Bending former with slide rail 22 mm</b>	22,0		81		6.5	4602060	276522
<b>Bending former with slide rail 25 mm</b>	25,0		105	M25	4.7	4602140	276525
<b>Bending former 3/4"</b>	26,9	3/4	80		5.8	4600870	276107
<b>Bending former with slide rail 28 mm</b>	28,0		126		5.4	4602300	276528
<b>Bending former with slide rail 30 mm</b>	30,0		153		7.0	4602490	276530
<b>Bending former with slide rail 32 mm</b>	32,0		153	M32	7.0	4602570	276532
<b>Pressure roller</b>		3/8-3/4			0.5	4600360	276003




## Manual pipe bender - Pushing bending operation

2456  
BENDING TOOL SET

hydraulic

- > Sizes from 10 to 22 mm Ø up to 90°
- > For soft copper pipes EN 1057 up to 22 mm (also heat-insulated), composite pipes up to 20 mm as well as precision steel pipes EN 10305-3 (DIN 2394) up to 18 x 1.5 mm
- > With 7 bending formers for pipes with Ø 10, 12, 14, 15, 18, 20 and 22 mm and corresponding counter-supports
- > Hydraulic drive without great effort
- > Delivery in plastic case no. 245590




Contents	 kg	Code	No.
<b>1 base unit, hydraulic no. 245670</b>	6.2	4635230	245610
<b>7 bending tools for pipes with Ø 10, 12, 14, 15, 18, 20, 22 mm</b>			
<b>1 plastic case no. 245590</b>			

1100-2456  
BENDING TOOL SET

hydraulic, in L-BOXX® 136

- > Sizes from 10 to 22 mm Ø up to 90°
- > For soft copper pipes EN 1057 up to 22 mm (also heat-insulated), composite pipes up to 20 mm as well as precision steel pipes EN 10305-3 (DIN 2394) up to 18 x 1.5 mm
- > With 7 bending formers for pipes with Ø 10, 12, 14, 15, 18, 20 and 22 mm and corresponding counter-supports
- > Hydraulic drive without great effort
- > With pipe cutter no. 2250 3
- > Delivery in GEDORE L-BOXX® 136 no. 1100 L
- > Dimensions: W 442 x D 357 x H 151 mm




Contents	 kg	Code	No.
<b>1 base unit, hydraulic no. 245670</b>	6.9	2963531	1100-245680
<b>7 aluminium bending formers for pipes with Ø 10, 12, 14, 15, 18, 20, 22 mm</b>			
<b>3 counter-supports reinforced Ø 6-12, 14-17, 18-22 mm</b>			
<b>1 pipe cutter Ø 3-35 mm no. 2250 3</b>			
<b>1 GEDORE L-BOXX® 136 no. 1100 L</b>			

2456  
BENDING TOOL SET

hydraulic, heavy-duty

- > Sizes from 6 to 22 mm Ø up to 90°
- > For soft copper pipes EN 1057 up to 22 mm (also heat-insulated), composite pipes up to 20 mm, precision steel pipes EN 10305-3 (DIN 2394) up to 18 x 2 mm, as well as annealed stainless steel pipes up to 18 x 1.2 mm
- > With 10 bending formers for pipes with Ø 6, 8, 10, 12, 14, 15, 16, 18, 20 and 22 mm and corresponding counter-supports
- > Hydraulic drive without great effort
- > In plastic case no. 245690



Contents	 kg	Code	No.
<b>1 base unit, hydraulic no. 245670</b>	7.5	1585495	245611
<b>10 bending tools for pipes with Ø 6, 8, 10, 12, 14, 15, 16, 18, 20, 22 mm</b>			
<b>1 plastic case no. 245690</b>			



# 1100-2456 BENDING TOOL SET



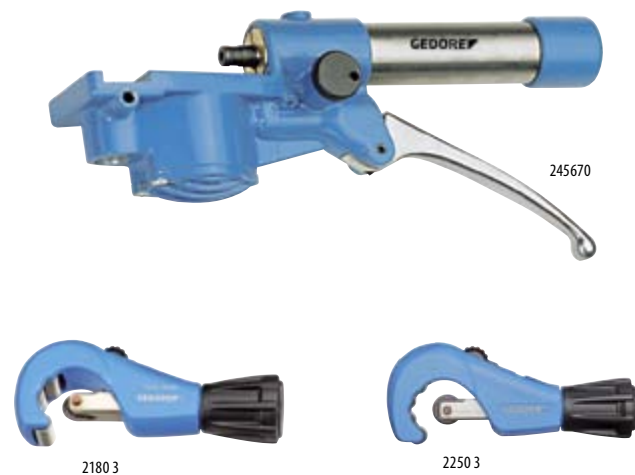
hydraulic, heavy-duty, in L-BOXX® 136

- > Sizes from 6 to 22 mm Ø up to 90°
- > For soft copper pipes EN 1057 up to 22 mm (also heat-insulated), composite pipes up to 20 mm, precision steel pipes EN 10305-3 (DIN 2394) up to 18 x 2 mm, as well as annealed stainless steel pipes up to 18 x 1.2 mm
- > With 10 bending formers for pipes with Ø 6, 8, 10, 12, 14, 15, 16, 18, 20 and 22 mm and corresponding counter-supports
- > Hydraulic drive without great effort
- > With pipe cutter no. 2180 3
- > Delivery in GEDORE L-BOXX® 136 no. 1100 L
- > Dimensions: W 442 x D 357 x H 151 mm



Contents	kg	Code	No.
<b>1 base unit, hydraulic no. 245670</b> <b>10 aluminium bending formers for pipes with Ø 6, 8, 10, 12, 14, 15, 16, 18, 20, 22 mm</b> <b>1 counter-support Ø 6-12 mm</b> <b>2 counter-supports reinforced Ø 14-17, 18-22 mm</b> <b>1 pipe cutter Ø 3-35 mm no. 2180 3</b> <b>1 GEDORE L-BOXX® 136 no. 1100 L</b>	8.2	2963558	1100-245681

## E 2456 PARTS



Description	kg	Code	No.
<b>Basic unit, hydraulic</b>	2.350	4635310	245670
<b>Pipe cutter for copper pipes 3-35 mm</b>	0.335	2964031	2250 3
<b>Pipe cutter for stainless steel pipes 3-35 mm</b>	0.335	2964066	2180 3

## E 2457 - E 2458 BENDING TOOLS

- > The counter-support no. 245710-245731 are needed
- > For metric pipes



Description	Ø mm	r = mm	kg	Code	No.
<b>Cast aluminium bending former 6 mm</b>	6	31	0.100	4635900	245806
<b>Cast aluminium bending former 8 mm</b>	8	31	0.100	4636040	245808
<b>Cast aluminium bending former 10 mm</b>	10	31	0.100	4636120	245810
<b>Cast aluminium bending former 12 mm</b>	12	34	0.110	4636200	245812
<b>Cast aluminium bending former 14 mm</b>	14	41	0.120	4636390	245814
<b>Cast aluminium bending former 15 mm</b>	15	48	0.140	4636470	245815
<b>Cast aluminium bending former 16 mm</b>	16	49	0.150	4636550	245816
<b>Cast aluminium bending former 18 mm</b>	18	72	0.190	4636710	245818
<b>Cast aluminium bending former 20 mm</b>	20	80	0.200	4636980	245820
<b>Cast aluminium bending former 22 mm</b>	22	88	0.200	4637010	245822
<b>Counter-support 6-12 mm</b>	6-12		0.380	4635580	245710
<b>Counter-support 14-17 mm</b>	14-17		0.460	4635660	245720
<b>Counter-support 14-17 mm reinforced</b>	14-17		0.380	1585509	245721
<b>Counter-support 18-22 mm</b>	18-22		0.460	4635740	245730
<b>Counter-support 18-22 mm reinforced</b>	18-22		0.480	1585517	245731

## Pipe bending machines - Draw bending operation

### 249 PIPE BENDING MACHINE

manual-hydraulic



- > Sizes from 12 to 50 mm Ø and 3/8" to 1.1/2" up to 90°
- > For copper pipes EN 1057, precision steel pipes EN 10305-3 (DIN 2394) and hydraulic pipes EN 10305-1 (DIN 2391), stainless steel pipes EN 10088-3 (DIN 17 440) up to 42 mm, uncoated pipes and pipes with fixed coating, composite pipes as well as electrical installation pipes EN 60423

- > Pressure 100 kN
- > On pivotable tripod
- > Delivery in wooden assembly case

**Bending tools for further pipe types and sizes available on request**



Contents	kg	Code	No.
<b>1 pump manual-hydraulic no. 254200</b>	76.0	4580150	249000
<b>1 base unit with pivotable tripod no. 249310 without bending tools</b>			

### 249 PIPE BENDING MACHINE

electro-hydraulic

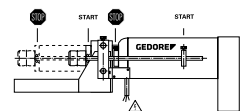


- > Sizes from 12 to 50 mm Ø and 3/8" to 1.1/2" up to 90°
- > For copper pipes EN 1057, precision steel pipes EN 10305-3 (DIN 2394) and hydraulic pipes EN 10305-1 (DIN 2391), stainless steel pipes EN 10088-3 (DIN 17 440) up to 42 mm, uncoated pipes and pipes with fixed coating, composite pipes as well as electrical installation pipes EN 60423
- > Electrical limiter for continuous pre-setting and repetition in the production of pipe bends
- > Pressure 100 kN
- > On pivotable tripod
- > Delivery in wooden assembly case

**Bending tools for further pipe types and sizes available on request**



Electrical limiter



Contents	kg	Code	No.
<b>1 pump electro-hydraulic 380-415 V 50/60 Hz no. 254601</b>	111.0	4580230	249001
<b>1 base unit with pivotable tripod no. 249311 without bending tools</b>			
<b>1 pump electro-hydraulic 230 V 50/60 Hz no. 254651</b>	111.0	1547593	249002
<b>1 base unit with pivotable tripod no. 249311 without bending tools</b>			

254



>633



# E 249

## BENDING TOOLS

- > Consisting of bending former, pipe holder and aluminium slide rail
- > Bending formers, pipe holders and steel bending rails are available on request for shaping stainless steel pipes - chemically nickel plated
- > Special sizes available on request



Ø mm	Size	Electrical installation ducts EN 60423	Precision steel pipes EN 10305-3	Cu pipes EN 1057	r = mm	Code	No.
12,0		M12	12	12	85	1527339	249812
12,7					100	2125242	249605
15,0			15	15	85	4640660	249815
15,88					100	2125250	249606
16,0		M16	16		85	4654290	249816
17,2	3/8				85	1742655	249503
18,0			18	18	85	4654370	249818
19,05					100	2125269	249607
20,0			20		85	4654530	249820
21,3	1/2				100	1639935	249505
22,0			22	22	85	4654610	249822
22,22					150	2125277	249608
25,0			25		85	4582520	249825
25,0		M25	25		100	1546120	249025
25,4					200	2125293	249610
26,9	3/4				100	1422820	249507
28,0			28		85	4582600	249828
28,0			28		100	4580310	249028
30,0			30		85	4582790	249830
30,0			30		100	4580580	249030
31,75					200	2125315	249612
32,0		M32	32		150	1546147	249132
33,7	1				150	1276190	249510
35,0			35		150	4580900	249135
38,0			38		150	4581120	249138
40,0		M40	40		200	1546163	249240
42,0			42		200	1561944	249242
42,4	1.1/4				150	1549561	249512
48,3	1.1/2				200	1232401	249515
50,0		M50	50		200	4581710	249250

# 250

## PIPE BENDING MACHINE

manual-hydraulic

- > Sizes from 25 to 54 mm Ø and 1/2" to 2" up to 180°
- > Especially suitable for thornless bending of thin-walled stainless steel pipes EN 10088-3 (DIN 17 440) over 0.8 mm wall thickness
- > Also for copper pipes EN 1057, precision steel pipes EN 10305-3 (DIN 2394) and hydraulic pipes EN 10305-1 (DIN 2391), NF pipes, uncoated pipes as well as electrical installation pipes EN 60423
- > Pressure 160 kN
- > On pivotable tripod
- > Delivery in wooden assembly case

**Bending tools for further pipe types and sizes available on request**



Contents		Code	No.
1 pump manual-hydraulic no. 254300	155.0	4583760	250000
1 base unit no. 250010			
1 pivotable tripod no. 268001			
without bending tools			

# 250 PIPE BENDING MACHINE

electro-hydraulic



- > Sizes from 25 to 54 mm Ø and 1/2" to 2" up to 180°
- > Especially suitable for thornless bending of thin-walled stainless steel pipes EN 10088-3 (DIN 17 440) over 0.8 mm wall thickness
- > Also for copper pipes EN 1057, precision steel pipes EN 10305-3 (DIN 2394) and hydraulic pipes EN 10305-1 (DIN 2391), NF pipes, uncoated pipes as well as electrical installation pipes EN 60423
- > Electrical limiter for continuous pre-setting and repetition in the production of pipe bends
- > Pressure 160 kN
- > On pivotable tripod
- > Delivery in wooden assembly case



**Bending tools for further pipe types and sizes available on request**

Contents		Code	No.
<b>1 pump electro-hydraulic 380-415 V 50/60 Hz no. 254701</b> <b>1 base unit no. 250010</b> <b>1 pivotable tripod no. 268001</b> <b>without bending tools</b>	175.0	4583840	250001
<b>1 pump electro-hydraulic 230 V 50/60 Hz no. 254751</b> <b>1 base unit no. 250010</b> <b>1 pivotable tripod no. 268001</b> <b>without bending tools</b>	175.0	1380133	250002

# E 250 BENDING SETS

- > Consisting of bending former with aluminium slide rail and pipe holder
- > Bending formers, pipe holders and steel bending rails are available on request for shaping stainless steel pipes - chemically nickel plated
- > Special sizes available on request



Ø mm	Size	Electrical installation ducts EN 60423	Precision steel pipes EN 10305-3	r = mm		Code	No.
12,7				100	3.900	2125242	249605
15,88				100	3.900	2125250	249606
19,05				100	3.900	2125269	249607
21,3	1/2			100	4.000	1639935	249505
22,22				150	7.500	2125277	249608
25,0		M25	25	100	3.940	1546120	249025
25,4				200	12.900	2125293	249610
26,9	3/4			100	6.500	1422820	249507
28,0			28	100	3.520	4580310	249028
30,0			30	100	3.740	4580580	249030
30,0			30	150	13.000	1679155	250330
31,75				200	12.900	2125315	249612
32,0		M32	32	150	7.500	1546147	249132
33,7	1			150	7.500	1276190	249510
35,0			35	150	7.280	4580900	249135
38,0			38	150	7.080	4581120	249138
38,1			250	250	21.000	2125161	250615
40,0		M40	40	200	12.920	1546163	249240
42,0			42	200	13.400	1561944	249242
42,4	1.1/4			150	7.500	1549561	249512
42,4	1.1/4		1.1/4	200	15.000	4655340	250312
44,44				300	31.000	2125188	250617
48,3	1.1/2			200	14.500	1232401	249515
48,3	1.1/2		1.1/2	250	21.000	4655420	250315
50,0		M50	50	200	13.120	4581710	249250
50,8				300	31.000	2125226	250620
52,0			52	350	41.000	4640900	250352
54,0			54	250	21.000	2001152	250354
60,3	2			250	21.000	1148001	250520
60,3	2		2	400	55.000	4655500	250320



Pipe bending machines - Pushing bending operation

MAX. BENDING CAPACITIES PIPE BENDING MACHINES 256-261

Pipe bending machine No.	Gas and water pipes EN 10255 (DIN 2440/2441)	Distilling pipes EN 10220 (DIN 2448)		Metric tubes *)
	up to 90° Size	up to 90° Size	∅ mm	up to 90° ∅ mm
256	3/8 - 1.1/4"	1/2 - 1"	20 - 32	20 - 32
257 - 258	3/8 - 2"	1/2 - 1.1/2"	20 - 44,5	20 - 44,5
259 - 260	3/8 - 3"	1/2 - 2.1/2"	20 - 44,5	20 - 44,5
261	1 - 4"	1 - 2.1/2"	25 - 44,5	25 - 44,5

\*) Specifications under reserve - as these are dependent on the respective wall thickness

256  
PIPE BENDING MACHINE 3/8" - 1.1/4"



- > For gas and water pipes EN 10255 (DIN 2440/2441) up to max. 90°
- > With open bending frame
- > Pressure 60 kN
- > Delivery in assembly case

Available in various designs:

- > - manually or electro-hydraulically operated
- > - as the basic tool without bending former or as a set with bending former no. 263103-112

Optional bending tools under no. 263 - 264 available for:

- > - Distilling pipes EN 10220 (DIN 2448) from 1/2 to 1" or 20 to 32 mm
- > - Metric pipes from 20 to 32 mm

Bending tools for further pipe types and sizes and for stainless steel pipes on request



included in delivery	III.	kg	Code	No.
manual-hydraulic, open bending frame, without bending formers	C	47.0	4586860	256000
manual-hydraulic, open bending frame, with 5 bending formers no. 263103-112	C	56.0	4586940	256100
electro-hydraulic 380-415 V 50/60 Hz, open bending frame, without bending formers	D	73.0	4587080	256500
electro-hydraulic 380-415 V 50/60 Hz, open bending frame, with 5 bending formers no. 263103-112	D	82.0	4587160	256510
electro-hydraulic 230 V 50/60 Hz, open bending frame, without bending formers	D	73.0	4587240	256600
electro-hydraulic 230 V 50/60 Hz, open bending frame, with 5 bending formers no. 263103-112	D	82.0	4587320	256610

# 257 - 258

## PIPE BENDING MACHINE 3/8" - 2"



- > For gas and water pipes EN 10255 (DIN 2440/2441) up to max. 90°
- > Pressure 100 kN
- > Delivery in assembly case

**Available in various designs:**

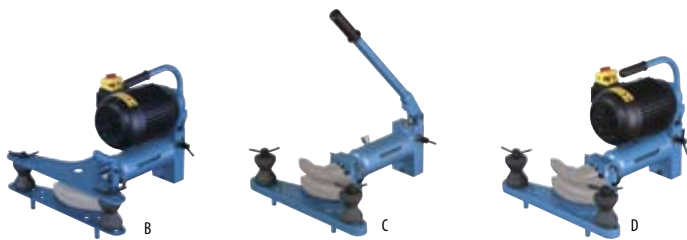
- > - manually or electro-hydraulically operated
- > - with open or fold-open bending frame
- > - as the basic tool without bending former or as a set with bending former no. 263103-120

**Optional bending tools under no. 263 - 264 available for:**

- > - Distilling pipes EN 10220 (DIN 2448) from 1/2 to 1.1/2" or 20 to 44.5 mm
- > - Metric pipes from 20 to 44.5 mm

**Bending tools for further pipe types and sizes and for stainless steel pipes on request**

**MODEL 257:**  
FOLD-OPEN BENDING FRAME FOR MOBILE USE  
**MODEL 258:**  
OPEN BENDING FRAME FOR QUICK AND EFFICIENT WORKING



included in delivery	III.	kg	Code	No.
manual-hydraulic, fold-open bending frame, without bending formers	A	54.0	4587400	257000
manual-hydraulic, fold-open bending frame, with 7 bending formers no. 263103-120	A	75.0	4587590	257100
electro-hydraulic 380-415 V 50/60 Hz, fold-open bending frame, without bending formers	B	78.0	4587670	257500
electro-hydraulic 380-415 V 50/60 Hz, fold-open bending frame, with 7 bending formers no. 263103-120	B	99.0	4587750	257510
electro-hydraulic 230 V 50/60 Hz, fold-open bending frame, without bending formers	B	78.0	4587830	257600
electro-hydraulic 230 V 50/60 Hz, fold-open bending frame, with 7 bending formers no. 263103-120	B	99.0	4587910	257610
manual-hydraulic, open bending frame, without bending formers	C	73.0	4588050	258000
manual-hydraulic, open bending frame, with 7 bending formers no. 263103-120	C	95.0	4588130	258100
electro-hydraulic 380-415 V 50/60 Hz, open bending frame, without bending formers	D	98.0	4588210	258500
electro-hydraulic 380-415 V 50/60 Hz, open bending frame, with 7 bending formers no. 263103-120	D	119.0	4588480	258510
electro-hydraulic 230 V 50/60 Hz, open bending frame, without bending formers	D	98.0	4588560	258600
electro-hydraulic 230 V 50/60 Hz, open bending frame, with 7 bending formers no. 263103-120	D	119.0	4588640	258610



# 259 - 260

## PIPE BENDING MACHINE 3/8" - 3"



- > For gas and water pipes EN 10255 (DIN 2440/2441) up to max. 90°
- > Pressure 160 kN
- > Delivery in assembly case

**Available in various designs:**

- > - manually or electro-hydraulically operated
- > - with open or fold-open bending frame
- > - as the basic tool without bending former or as a set with bending former no. 263103-130

**Optional bending tools under no. 263 - 264 available for:**

- > - Distilling pipes EN 10220 (DIN 2448) from 1/2 to 2.1/2" or 20 to 44.5 mm
- > - Metric pipes from 20 to 44.5 mm

**Bending tools for further pipe types and sizes and for stainless steel pipes on request**

**MODEL 259:**

FOLD-OPEN BENDING FRAME FOR MOBILE USE

**MODEL 260:**

OPEN BENDING FRAME FOR STATIONARY USE AND QUICK AND EFFICIENT WORKING



included in delivery	III.	kg	Code	No.
manual-hydraulic, fold-open bending frame, without bending formers	A	98.0	4588720	259000
manual-hydraulic, fold-open bending frame, with 9 bending formers no. 263103-130	A	173.0	4588800	259100
electro-hydraulic 380-415 V 50/60 Hz, fold-open bending frame, without bending formers	B	123.0	4588990	259500
electro-hydraulic 380-415 V 50/60 Hz, fold-open bending frame, with 9 bending formers no. 263103-130	B	198.0	4589020	259510
electro-hydraulic 230 V 50/60 Hz, fold-open bending frame, without bending formers	B	123.0	4589100	259600
electro-hydraulic 230 V 50/60 Hz, fold-open bending frame, with 9 bending formers no. 263103-130	B	198.0	4589290	259610
manual-hydraulic, open bending frame, without bending formers	C	120.0	4589370	260000
manual-hydraulic, open bending frame, with 9 bending formers no. 263103-130	C	207.0	4589450	260100
electro-hydraulic 380-415 V 50/60 Hz, open bending frame, without bending formers	D	155.0	4589530	260500
electro-hydraulic 380-415 V 50/60 Hz, open bending frame, with 9 bending formers no. 263103-130	D	242.0	4589610	260510
electro-hydraulic 230 V 50/60 Hz, open bending frame, without bending formers	D	155.0	4589880	260600
electro-hydraulic 230 V 50/60 Hz, open bending frame, with 9 bending formers no. 263103-130	D	242.0	4589960	260610



# 261 PIPE BENDING MACHINE 1" - 4"



- > For gas and water pipes EN 10255 (DIN 2440/2441) up to max. 90°
- > With fold-open bending frame
- > Pressure 200 kN
- > Delivery in wooden assembly case

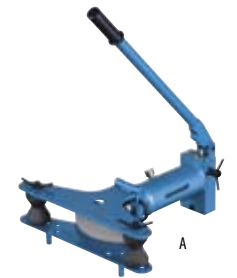
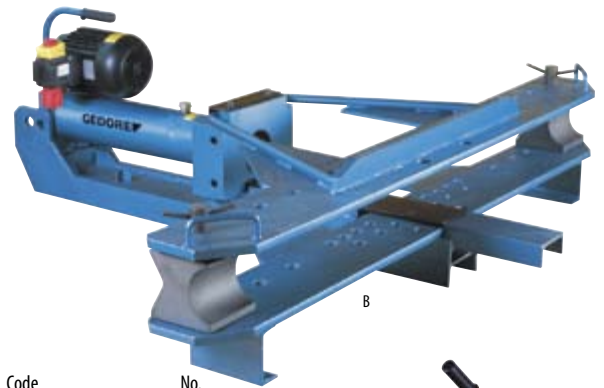
**Optional bending tools under no. 263 - 264 available for:**

- > - Distilling pipes EN 10220 (DIN 2448) from 1" to 2.1/2" or 25 to 44.5 mm
- > - Metric pipes from 25 to 44.5 mm

**Available in various designs:**

- > - manually or electro-hydraulically operated
- > - as the basic tool without bending former or as a set with bending former no. 263113-130, 263040

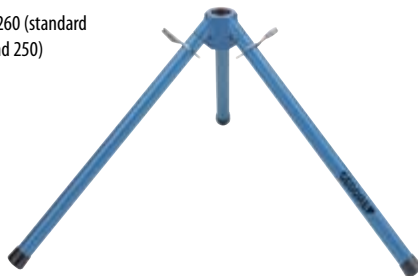
**Bending tools for further pipe types and sizes and for stainless steel pipes on request**



included in delivery	Ill.		Code	No.
<b>manual-hydraulic, fold-open bending frame, without bending formers</b>	A	311.0	4590030	261000
<b>manual-hydraulic, fold-open bending frame, with bending formers no. 263110-130, 263040</b>	A	480.0	4644060	261100
<b>electro-hydraulic 380-415 V 50/60 Hz, fold-open bending frame, without bending formers</b>	B	330.0	4590110	261500
<b>electro-hydraulic 380-415 V 50/60 Hz, fold-open bending frame, with bending formers no. 263110-130, 263040</b>	B	499.0	4644140	261510

# 268 INSTALLATION TRIPOD, PIVOTABLE

- > Available in 2 sizes
- > For GEDORE pipe bender no. 256-260 (standard equipment for benders no. 249 and 250)
- > Enamelled blue



Height	Use		Code	No.
<b>480</b>	for manual-hydraulic benders no. 256, 257, 258	6.2	4599760	268000
<b>680</b>	for manual-hydraulic benders no. 259, 260 and all electric-hydraulic benders	17.4	4599840	268001

# 254 EXTENSION CABLE

- > For electro-hydraulic pumps 1.1/4", 2", 3" and 4"
- > Heavy rubber hose
- > Can be used in dry and damp rooms
- > For high mechanical loads, including construction sites



Description	Connection voltage V		Code	No.
<b>CEE extension cable 10 m</b>	380-415	3.1	4694160	254983
<b>Safety extension cable 10 m</b>	230	1.6	4694320	254985

# 269 HYDRAULIC OIL

1 litre

- > For re-filling all GEDORE hydraulic pumps
- > For filling the volume stated in the table is required



Litre	for pumps	use in machine no.	required volume litre		Code	No.
<b>1</b>	2541, 2545	256	0,90	0.880	4599920	269000
	2542, 2546	249, 257, 258	1,25			
	2543, 2547	250, 259, 260	1,90			
	2544, 2548	261	3,50			

# 2631 GREY CAST IRON BENDING FORMER UP TO 90°

- > For gas and water pipes EN 10255-M (DIN 2440)
- > Enamelled black



Use in machine No.	Size	Ø mm	r = mm	Bore mm		Code	No.
<b>256-260</b>	3/8	17,2	45	35,5	0.9	4539000	263103
<b>256-260</b>	1/2	21,3	50	35,5	1.3	4539190	263105
<b>256-260</b>	3/4	26,9	75	35,5	2.2	4539270	263107
<b>256-261</b>	1	33,7	100	35,5	2.3	4590460	263110
<b>256-261</b>	1.1/4	42,4	115	35,5	2.4	4590540	263112
<b>257-261</b>	1.1/2	48,3	150	35,5	5.3	4539350	263115
<b>257-261</b>	2	60,3	200	35,5	6.7	4539430	263120
<b>259-261</b>	2.1/2	76,1	320	35,5	21.2	4590620	263125
<b>259-261</b>	3	88,9	380	35,5	30.4	4590700	263130



## 2630 STEEL BENDING FORMER UP TO 90°

- > For gas and water pipes EN 10255 (DIN 2440/2441)
- > For surface-protective bending
- > Phosphated



Use in machine No.	Size	Ø mm	r = mm	Bore mm	⚖	Code	No.
<b>256-260</b>	1/2	21,3	50	35,5	1.3	4655850	263005
<b>256-260</b>	3/4	26,9	75	35,5	2.2	4655930	263007
<b>256-261</b>	1	33,7	100	35,5	2.3	4656070	263010
<b>256-261</b>	1.1/4	42,4	126	35,5	5.8	4656150	263012
<b>257-261</b>	1.1/2	48,3	145	35,5	5.3	4656230	263015
<b>257-261</b>	2	60,3	200	35,5	11.2	4656310	263020
<b>259-261</b>	2.1/2	76,1	320	35,5	21.2	4656580	263025
<b>259-261</b>	3	88,9	380	35,5	44.5	4656660	263030
<b>261</b>	4	114,3	600	35,5	98.0	4644300	263040

FE

## 2640 STEEL BENDING FORMER UP TO 90°

INOX

FE

- > For standard-walled distilling pipes EN 10220 (DIN 2448) and metric pipes
- > Phosphated



Bending tools for further pipe types and sizes and for stainless steel pipes on request

Use in machine No.	Size	Ø mm	r = mm	Bore mm	⚖	Code	No.
<b>256-260</b>		20,0	90	35,5	3.4	4593130	264020
<b>256-260</b>	1/2	21,3	75	35,5	2.5	4595340	264005
<b>256-260</b>		22,0	90	35,5	3.2	4593210	264022
<b>256-261</b>		25,0	115	35,5	3.6	4595770	264025
<b>256-260</b>	3/4	26,9	90	35,5	3.5	4595420	264007
<b>256-261</b>		28,0	130	35,5	5.4	2910438	264028
<b>256-261</b>		30,0	140	35,5	6.7	4595850	264030
<b>256-261</b>		32,0	140	35,5	6.6	4595930	264032
<b>256-261</b>	1	33,7	130	35,5	5.4	4595500	264010
<b>257-261</b>		38,0	170	35,5	8.2	4596070	264038
<b>257-261</b>		42,0	190	35,5	10.7	2910446	264042
<b>257-261</b>	1.1/4	42,4	180	35,5	10.2	4595690	264012
<b>257-261</b>		44,5	190	35,5	10.7	4596150	264044
<b>257-261</b>	1.1/2	48,3	220	35,5	11.8	4596230	264048
<b>259-261</b>	2	60,3	270	35,5	21.3	4596660	264060
<b>259-261</b>	2.1/2	76,1	420	35,5	49.3	4596900	264076

### Eccentric angle benders

## MAX. BENDING CAPACITIES ANGLE BENDERS NO. 280

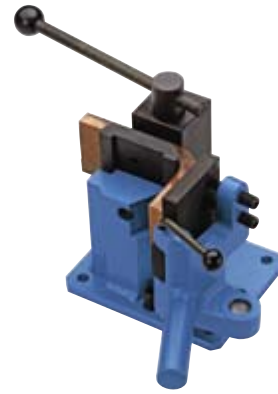
	70 mm working height		100 mm working height		120 mm working height	
	cold mm	hot mm	cold mm	hot mm	cold mm	hot mm
Flat steel EN 10058 (DIN 1017) (material strength 370 N/mm <sup>2</sup> )	70 x 6 (70 x 10)* (50 x 15)* (30 x 20)*	70 x 10 (70 x 20)* (50 x 25)*	100 x 10 80 x 12 50 x 15 30 x 20	100 x 20 80 x 25	120 x 8 100 x 10 80 x 12 50 x 15 30 x 20	120 x 20 80 x 25
Square steel stock EN 10059 (DIN 1014) (material strength 370 N/mm <sup>2</sup> )	6 (22)*	10 (30)*	22	30	22	30
Round steel stock EN 10060 (DIN 1013) (material strength 370 N/mm <sup>2</sup> )	6 (25)*	10 (30)*	25	30	25	30
Angled steel stock EN 10056-1 (DIN 1028) (material strength 370 N/mm <sup>2</sup> )	70 x 6	70 x 9	100 x 10	100 x 12	120 x 10	120 x 15
CU-flat bars EN 13601 (material strength 250 N/mm <sup>2</sup> )	60 x 6 (60 x 30)*		100 x 30		120 x 10 100 x 30	
AL-flat bars EN 754-5 (DIN 1769) (material strength 160 N/mm <sup>2</sup> )	70 x 10 (70 x 30)*		100 x 30		120 x 15 100 x 30	


\* optional bending tool no. 280072 is necessary

# 280 ECCENTRIC ANGLE BENDER

70, 100 and 120 mm working height

- > For round, flat and angled stocks in steel, copper or aluminium up to 90°
- > With stepless adjustable angle stop
- > With length stop
- > Manual base unit for mounting on a workbench, with optional tripod no. 268500 for stationary use
- > With optional available angle no. 280250 for vice fixture
- > Optionally available are bending tools for a diversity of applications - see E 280 bending tools



Included in delivery		Code	No.
Basic tool 70 mm working height, manual, with bending lever extension no. 268230	29.5	4539940	280070
Basic tool 100 mm working height, manual, with bending lever extension no. 268230	32.5	4535010	280100
Basic tool 120 mm working height, manual, with bending lever extension no. 268230	34.1	4606130	280120

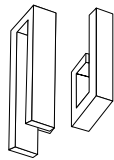
## E 280 BENDING TOOLS



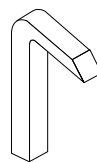
280072



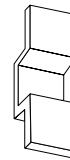
280113  
280114



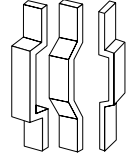
280115




280116



280117



Description	use in machine no.		Code	No.
Radiused bending tool $r = 15 \text{ mm}$ / $r = 25 \text{ mm}$ for material thicknesses up to 30 mm	280070	1.1	4605320	280072
Bending tool for producing saddles and rectangular bends, sharp-edged for material thicknesses up to 3 mm	280100	0.8	4605670	280113
Bending tool for producing saddles and rectangular bends, $r = 4 \text{ mm}$ for material thicknesses up to 6 mm	280100	0.9	4605750	280114
Bending tool for making diamond bends	280070, 280100, 280120	0.7	4605830	280115
Bending tool for high saddles	280100	1.2	4605910	280116
Offset block for narrow saddles	280100	2.4	4606050	280117

## E 280 ACCESSORIES



280250


268500



411-150

>554



Description		Code	No.
Tripod, height 990 mm	21.2	2681072	268500
Angle for vice fixture	3.3	2009544	280250



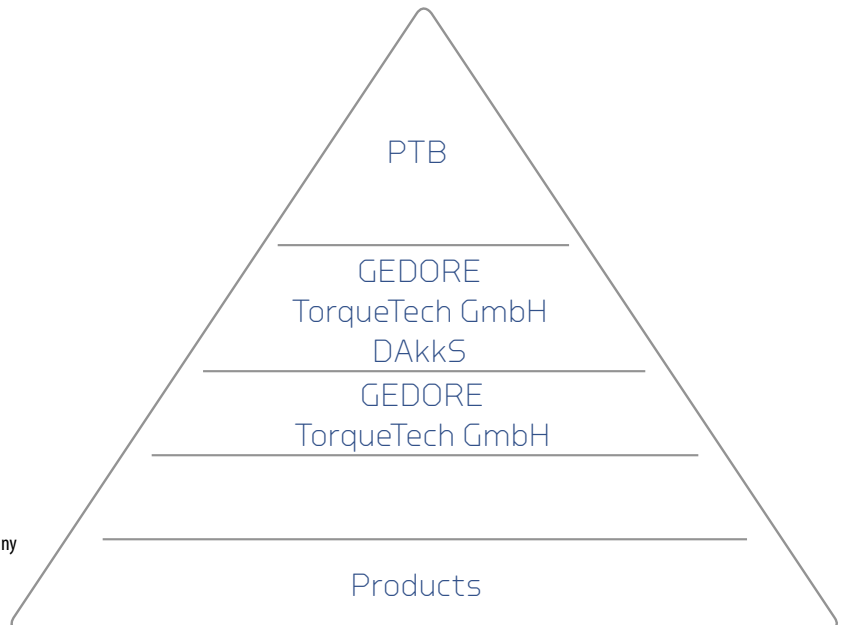
# WE GIVE YOU THE SECURITY YOU NEED

## Factory calibration - solid reliability!

- > Indirect traceability to the national standard
- > Factory calibration according to the standard DIN EN ISO 6789:2003
- > Factory calibration if necessary with adjustments and repairs - for GEDORE products only
- > Factory test certificate and calibration stamp



## Factory test certificate according to DIN EN ISO 6789:2003

- > It contains information about the test item, measurement results, the test equipment used and the classification of the test item according to DIN EN ISO 6789:2003 (e.g. Type II Class A).
- > The calibration is carried out on test equipment, which comply with the DIN EN ISO 6789:2003.
- > The calibration result of the factory certificate does not take consideration of any measurement inaccuracies by test equipment at individual hierarchy steps.
- > The documented measuring inaccuracies refers only to the test item.



## Factory Calibration

### Test subject

Mech. torque wrench		0,2-1.000 N·m
Electr. torque wrench		0,2-3.000 N·m
> Torque testers		0,2-3.000 N·m

### Test device

### Test result

DIN EN ISO 6789

### Note

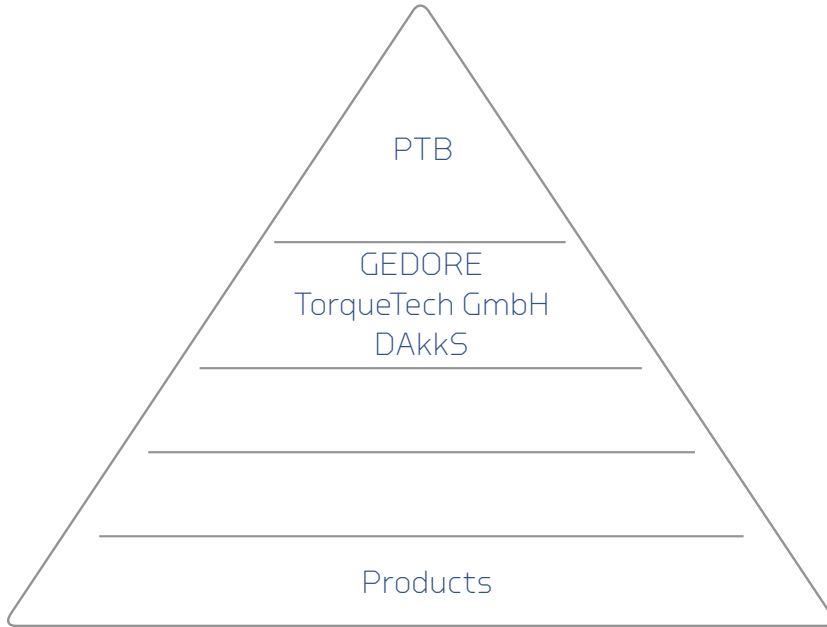
Calibration always represents a snapshot! Within the framework of calibration, deviations in measurements and measurement inaccuracies are recorded on a certain date and documented accordingly in the calibration certificate. Using these calibration results, a statement can be made as regards tolerance accuracy since the previous calibration. No statement can however be made as regards future performance.

The generation of a factory test certificate in accordance with GEDORE criteria as well as adjustment and repair is exclusively possible for torque wrenches and test equipment manufactured by us.

Factory and DAkkS calibrations involve right calibration. Left calibration also available on request.

Depending on the requirements or customer requests, we calibrate in accordance with DAkkS guidelines or GEDORE criteria

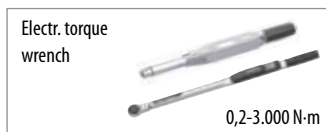
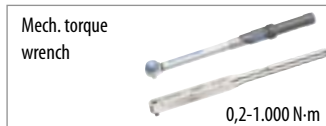
# DAkkS CALIBRATION - 100 % DOCUMENTED SAFETY



- › Direct traceability to the national standard
- › DAkkS calibrations to DAkkS Guidelines: DAkkS-DKD-R 3-7:2003; DAkkS-DKD-R 3-8:2003 and DIN EN ISO 6789:2003
- › Minimum measurement inaccuracies
- › DAkkS calibration of our own products and those of other manufacturers
- › Air-conditioned laboratory controls under the most stringent conditions
- › DAkkS calibration certificate and DAkkS calibration stamp

## DAkkS Calibration

### Test subject



### Test device



### Test result



## DAkkS calibration certificate

The DAkkS calibration certificate documents the calibration result - the DAkkS calibration mark on the test item identifies the DAkkS laboratory performing calibration. Please note our registration number: DK-15200-01-00. During the test process, the GEDORE TorqueTech GmbH calibration laboratory is obliged to comply with the contractual criteria of the DAkkS (formerly DKD).

Apart from the standard test certificate contents, the DAkkS calibration certificate also takes consideration of the measurement inaccuracies of the test equipment used. The documented calibration result includes the measuring inaccuracies of both the test item and the test equipment.

DAkkS calibration therefore represents maximum safety for controlled tightening.

### Example

A torque wrench is calibrated in accordance with DIN EN ISO 6789:2003. Calibration is performed on test equipment approved by DAkkS.

Depending on the design and type, the torque wrench is calibrated at +/- 4% or +/- 6%. In addition to measurement deviations, measurement inaccuracy is also documented in the DAkkS calibration certificate.

The torque wrench can be used in accordance with the applicable DIN EN ISO standards.

### DAkkS calibration equipment

We calibrate your test equipment or torque wrenches on DAkkS-calibrated reference wrenches or test equipment. DAkkS calibrations of test equipment are performed regularly by PTB and/or Schatz. This fact ensures that the maximum possible accuracies and minimum possible measurement inaccuracies are provided. Before each calibration process, a preliminary test is performed in our DAkkS laboratory on each item of calibration equipment and on each reference wrench.

### International recognition

The DAkkS calibration certificate and therefore the measurement results listed are recognised in many other countries as official evidence of traceability. This is based on multilateral treaties.





## OUR SERVICE - QUALIFIED AND CUSTOMISED

Our reasonably-priced factory calibration service fulfills the requirements according to DIN EN ISO 6789. Our proprietary accredited DAkkS calibration laboratory creates certificates in accordance with the applicable standards and requirements as per DAkkS 3-7 and DAkkS 3-8 as well as DIN EN ISO 6789:2003.

Our repair service will repair your GEDORE torque wrenches within 5-7 working days.

Please note that the torque wrench is an item of measuring equipment.

### We recommend

- › Calibration once a year (DIN EN ISO 6789:2003)  
or after 5000 load cycles (DIN EN ISO 6789:2003)

### Your advantage

- › Torque wrench offering measurement accuracy
- › Free\* calibration service at GEDORE TorqueTech GmbH

\*Only applies for mechanical items supplied by us (RAHSOL/GEDORE)  
Full service package / services only apply for Germany. Please enquire in our subsidiaries about the possibilities for your respective country.

Regular calibration, adjustment and certification. Why is this so important?

- › Only then can we guarantee the precision and reliability of our torque tools over the long term. We attach a great deal of importance to this as your safety is something which is close to our heart.
- › Because we offer you the safety you require for everyday "controlled tightening".

**GEDORE - competent control of the highest level**

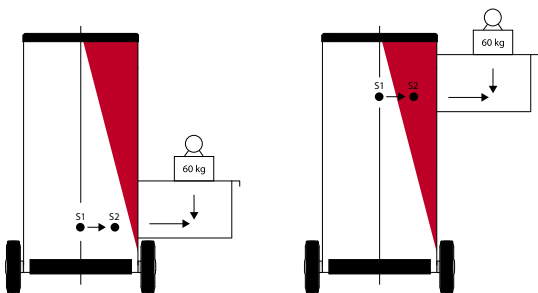


# HEALTH IS THE MOST IMPORTANT FACTOR WHEN IT COMES TO LIVING A HAPPY LIFE.

To ensure that you use our tools safely, please observe the following information.\*

## Why should heavy tools be stored in the bottom?

- › Always store the heaviest tools in the bottom (heavy-duty) drawer.
  - › When the bottom drawer is opened, the centre of gravity is relocated to a safe range.
  - › Storing heavy tools in the upper drawers relocates the centre of gravity upwards.
  - › When the drawer is opened, the centre of gravity is relocated to a critical range.
  - › This makes the tool trolley very susceptible to lateral forces. If the trolley is exposed to lateral forces such as impact, it can overturn.
  - › Always observe the load capacity for each drawer to ensure that you always stay in the safe range.
- › S1 = tool trolley centre of gravity when the drawer is closed  
› S2 = tool trolley centre of gravity when the drawer is opened  
› red = critical range- danger of overturning



## **i** General

- › Always wear safety goggles for tasks involving chips or the possibility of parts splintering.
- › Only use the hand tools for their intended purpose.
- › Never modify or tamper with tools. Exceptions: Professional regrinding of chisels, scrapers, cutting tools as well as hammer edges.
- › Never work with damaged tools. Damaged tools must be replaced immediately.
- › Handles must be free of oil and grease.
- › Depending on the task, protect your hands by wearing work gloves.
- › Work on live circuits may only be performed by qualified personnel using suitable VDE tools.
- › Choose a safe surface to ensure stability. Wear safety shoes.
- › Wear the specified ear protection when working in noisy environments.

## Tool trolley

- › Read the operating instructions.
- › Only open one drawer at a time. Opening several drawers at a time increases the tilting moment and the tool trolley can overturn.
- › Always store the heaviest tools in the bottom (heavy-duty) drawer. Storing heavy tools in the upper drawers relocates the centre of gravity upwards which in turn increases the tilting moment. The tool trolley can overturn.
- › Observe the permissible load capacity of individual drawers and the overall load capacity of the tool trolley.
- › Only move the tool trolley when the drawers are closed and locked. Watch out for loose items on the shelf or working area.
- › Always activate the total brake when "parking" the tool trolley. Only then is the tool trolley secured against unintentional movements.
- › Always move the tool trolley facing downwards on slopes.
- › Do not use the tool trolley for climbing.
- › Never store pointed or sharp items loosely in the tool trolley. Scribers can be made safe by sticking them in a cork, for example.

## Tool chests

- › Do not use the tool chest for climbing.
- › Never store pointed or sharp items loosely in the tool chest. Scribers can be made safe by sticking them in a cork, for example.
- › Take care of your back by going down on your hunkers and keeping your upper body straight when lifting out the tool box.

## Spanners

- › Only use spanner sizes and profiles which fit the bolt or nut head.
- › Do not use spanners as levers or as striking tools.
- › Select the spanner in accordance with the screwed connection. This particularly applies to screwed connections with high torques.
- › Never extend the tool lever arm except when the tools are designed especially for this purpose, e.g. single-ended ring spanners.
- › Never hit a spanner with a hammer except when the tools have an area designed especially for this purpose, e.g. slogging spanners.
- › Always apply the spanner at a right angle to the bolt axis.
- › Always pull the spanner towards you. Never push the spanner away from you. If for design reasons you can only press the spanner away from you, use your open hand to prevent injuring your knuckles.
- › Ring spanners transmit the forces more consistently. Ring spanners are therefore more suitable for large torques.
- › Apply open-ended spanners in such a way that the angle of the jaw is facing in the direction of rotation.
- › If a torque is specified for the screwed connection, use a torque wrench.
- › Never work with damaged spanners. Do not repair damaged spanners but rather replace them without delay.

\* Furthermore, the relevant safety guidelines of various institutions apply, e.g. the guidelines of the trade associations, employers' instructions and the statutory specifications of the respective country.



## Screwdrivers

- › Choose the screwdriver which is suitable for the respective bolt head profile.
- › Place the workpiece on a ledge or clamp it. This helps to avoid injuries incurred by sliding blades.
- › Avoid cuts by directing the requisite pressure for releasing or tightening the bolt head away from your body.
- › Wear protective gloves when working with screwdrivers.
- › If the screwdriver is too long, do not under any circumstances shorten the blade or handle. Choose a shorter screwdriver.
- › Do not use the screwdriver as a caulking or crushing tool.
- › Light hammer impact may only be applied for loosening screws using suitable screwdrivers with striking cap or continuous blade.
- › If the bolt fails to loosen, use the GEDORE impact driver set no. K 1900-013 to release the bolt without destroying it.
- › Insulated and tested screwdrivers must be used when working on electrical systems.

## Ratchets, tools and sockets

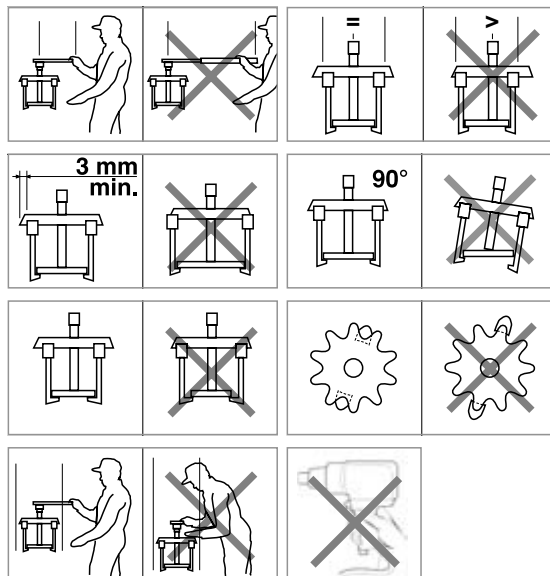
- › Ratchets are suitable for swift releasing and tightening.
- › Avoid jerky movements with the ratchet, e.g. caused by hammer impact.
- › The square drive and the tool and socket square drive must be of the same size.
- › Select the drive size in accordance with the screwed connection. This particularly applies to screwed connections with high torques.
- › Ensure that the ball engages properly in the ball catch.
- › Always pull the tool towards you. Never push the tool away from you. If for design reasons you can only press the tool away from you, use your open hand to prevent injuring your knuckles.
- › Only use suitable sockets and connections for the impact driver. Use a safety pin and ring to secure the connection between the socket, extension and machine.
- › When using reducers, the smaller drive's torque always applies.
- › Do not use ratchets as levers or as striking tools.

## VDE tools

- › Work on electrically live equipment may only be carried out by trained electricians.
- › Only tools and safety equipment marked with the double triangle or bell 1000 V symbol (refer to BGV A3) may be used.
- › Before commencing any work, check the insulation for damage.
- › Damaged tools must not be used.
- › The regulations of the employers' liability insurance associations and power supply companies must be complied with.
- › GEDORE VDE tools are approved for work on live circuits at voltages up to 1000 V AC and 1500 V DC.
- › Tools must not be combined unless they are designed to be securely joined together.

## Pullers

- › Read the operating instructions!
- › Use only original spare parts and accessories for your GEDORE puller. Never use worn, modified or defective spare parts or accessories.
- › Wear goggles and protective clothing when working. For added safety, use the GEDORE safety cover 5.10!
- › Before pulling, ensure that the legs are in contact with the part to be pulled and are firmly tightened so that the spindle operates centrally along the axis of the puller.
- › Attention! When using a puller, forces of up to several tons are generated! Take care to ensure that the puller is correctly positioned and is vertical to the component being pulled.
- › Do not use electric or pneumatic power or percussion drivers.







## Pipe bending systems

- › Read the operating instructions.
- › Never use defective or worn pipe bending systems.  
Replace defective or worn parts with original parts.
- › Use suitable systems and tools for bending.
- › Wear safety goggles, safety shoes and protective clothing.
- › Ensure stability of the pipe bending system during the bending process.



## Safety notes for striking tools

### Chisels

- › Wear safety glasses and safety gloves!
- › Before starting work, check that the chisel blade is sharp and the striking end is burr-free! The blades must be properly wet-sharpened!
- › Select the appropriate type and size of chisel for the work to be carried out!
- › Hold the chisel with a firm grip!
- › When working, keep your eyes on the chisel tip!
- › Wherever possible, use a chisel with hand guard.
- › Never use chisels on workpieces harder than 40 HRC!
- › Set safety guards in place to prevent splinters and chips posing a hazard for other people!

### Centre punches, drifts and mortise chisels

- › These tools are subject to the same safety rules as chisels.



## Cutting tools

- › Always set cutting tools down on a clearly visible place. Handles should always point towards you.
- › Sharpen your cutting tools regularly. Blunt cutting tools represent a greater risk of injury than sharp ones. Blunt cutting tools require more force to be applied.
- › Store cutting tools separately. This protects the blades and your fingers.
- › Set shears down with their tips closed. This protects the blades and your fingers.



## Torque tools

- › Read the operating instructions.
- › Only use correctly calibrated torque wrenches.
- › Treat torque wrenches as measuring equipment. Store torque wrenches carefully.
- › Only use torque wrenches within the permissible torque range.
- › Stop tightening the bolt immediately once you feel and hear the "click" signal.
- › Apply the torque wrench at a right angle to the screwed connection.
- › Only use original end fittings or accessories which fit the respective torque wrench.
- › Where possible, do not use any reducers.
- › Never loosen bolts using a torque wrench.
- › Never use the torque wrench as a hammer.
- › Slacken the torque wrench after completing work.
- › Never use defective or worn accessory parts. Replace defective or worn parts with original parts.
- › Only use one hand on the handle of the torque wrench;  
two-handed operation is only possible using DREMOMETER A - F.



## Torque Multipliers

- › Read the operating instructions!
- › Wear safety goggles, safety shoes and protective clothing!
- › Always inspect the torque multiplier for damage before use!
- › Never use electric, pneumatic or battery-operated torque multipliers or impact wrenches!
- › Never exceed the specified maximum input torque!
- › Always use impact sockets in accordance with DIN 3129 or ISO 2725-2 and ISO 1174!
- › Always securely connect the reaction arm to the support bolt!
- › Never extend the impact socket or connector between bolt and torque multiplier!
- › Never use a universal or cardan joint!
- › Never hit the torque multiplier with a hammer!
- › Do not drop the torque multiplier!
- › Never use the torque multiplier if it has been dropped, used to strike other objects, or if anything has fallen on it.
- › Always keep hands and fingers away from the reaction arm!
- › Always select an anchor point (wall, another bolt) sufficient to withstand torque reaction forces! Reaction torque equals output torque.
- › Never allow the gearbox to touch a wall or other object!
- › Never modify the reaction arm without consulting with the manufacturer!



## Safety notes for hammers

- › Wear safety glasses and safety gloves!
- › Use the hammer only for its intended purpose!
- › Never misuse the hammer as a lever!
- › Before starting work, check that the hammer head is securely attached to the shaft!
- › Select the appropriate type and size of hammer for the work to be carried out!
- › Never hit two hammers together!
- › Never use steel hammers on workpieces harder than 46 HRC! Use suitable plastic-faced hammers for this! In case of doubt, the healthier choice is a suitable plastic-faced hammer.
- › Avoid bouncing blows!
- › Use only the work faces of the hammer! Blows with the side face damage the non-hardened hammer eye. This can loosen the grip of the shaft in the hammer head.
- › If a burr forms on the peen or face of the hammer head, this must be immediately removed. Failure to do this can pose the risk of splintering when the hammer is in use.
- › Grip the hammer shaft as far away from the hammer head as possible! This improves the impact effect and avoids vibrations.
- › Do not store hammers with wooden shafts in warm, dry environments! Wood is a natural product. Dry, warm storage conditions cause the shaft to lose moisture and shrink, so that the hammer shaft is no longer a tight fit in the hammer head. Opposite storage conditions also have a negative effect on the wooden shaft. Do not store the wooden shaft in too damp conditions! Too much moisture causes the wooden shaft to swell up and damages the wooden fibres. This can result in the wooden shaft snapping behind the eye area.
- › Use only approved non-sparking hammers for work in explosion-hazard areas!
- › Use only suitable GEDORE replacement shafts and wedges.



## Safety notes

- › For engines with ignition coils integrated in the spark-plug connector (coil-on-plug), use only spark-plug sockets with retainer springs! (Nos. 50 - 59)
- › Do not use magnetic spark-plug spanners on coil-on-plug spark plugs!
- › This can result in control unit faults!



## Work gloves

- › Read the operating instructions.
- › Ensure that your work gloves are suitable for the respective task to be performed. Examine your work gloves for damage before use. Damaged work gloves must be replaced.
- › Only work using work gloves which fit your hands perfectly.
- › Store your work gloves in a clean and dry place.



## Safety goggles

- › Read the operating instructions.
- › Ensure that your safety goggles are suitable for the respective task to be performed.
- › Examine your safety goggles for damage before use. Damaged safety goggles must be replaced.
- › Store safety goggles in dry areas. Use the black plastic bag provided for this purpose. This will help you to avoid scratches on the lenses.
- › Clean the lenses regularly under running water, not when dry.
- › Do not wear safety goggles on top of standard spectacles. Mechanical effects can be transferred which may be dangerous.



## Ear protection

- › Read the operating instructions.
- › Ensure that your ear protection is suitable for the respective task to be performed.
- › Examine your ear protection for damage before use. Ear protection displaying damage must be replaced.
- › Wear ear protection for the entire duration of your stay in noisy areas.
- › Store your ear protection in a clean and dry place.
- › Avoid impact against the earpieces. Otherwise, this can lead to a noise level which is harmful for your ears.



## Pliers

- › Wear protective goggles when working with pliers! Ejected bits of wire and circlips not correctly positioned in the tip of the pliers pose a risk to your eyes!
- › Check on the jaws for wear and tear! Worn jaws result in slipping and thus in accidents.
- › The joint of the pliers is not to have any noticeable play! Exceptions are the sliding joints.
- › When cutting wire, choose pliers that match the wire diameter and wire hardness!
- › Never use pliers as hammers!
- › Only insulated and tested pliers are to be used when working on electrical equipment!
- › Grip wrenches are only for briefly fixing workpieces!

# TIGHTENING / TEST TORQUE

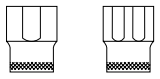






Suggested bolt tightening torque in N-m (Newton metres)							Wrench/spanner test torques in accordance with DIN ISO 1711-1 (minimum guaranteed values) N-m							
M	Tightening values for quality grade as per DIN 267						mm	No. 2, 2A, 2B No. 1B, 308, 7	No. 4	No. 6, No. 1B, 7, 400	No. 25	No. 26 R No. 626	No. 35 A No. 35 B No. 3112	No. 894 No. 895
	4.6	5.6	6.9	8.8	10.9	12.9								
M 2	0,123	0,162	0,314	0,373	0,520	0,628	4			1,90				
M 2,2	0,196	0,265	0,510	0,598	0,843	1,010	4,5*			2,64				
M 2,5	0,284	0,373	0,726	0,863	1,206	1,451	5	11,5		3,55				
M 3	0,441	0,588	1,128	1,344	1,883	2,256	5,5	14,4		4,64		14,4		2,32
M 3,5	0,677	0,902	1,736	2,060	2,893	3,481	6*	17,6	7,4	5,92		17,6		2,96
M 4	1,000	1,344	2,599	3,040	4,315	5,148	7	25,2	11,4	9,12		25,2		4,56
M 5	1,916	2,648	5,099	6,031	8,483	10,200	8 9*	34,5 45,4	16,6 23	13,3 18,4		34,5 45,4	34,5 45,4	6,65 9,20
M 6	3,432	4,511	8,728	10,300	14,710	17,652	10	58,1	31	24,8	58,1	58,1	58,1	12,4
M 7	5,590	7,453	14,220	17,162	24,517	28,439	11 12*	72,7 89,1	40,4 51,5	32,3 41,2	72,7 89,1	72,7 89,1	72,7 89,1	16,1 20,6
M 8	8,238	10,787	21,575	25,497	35,304	42,168	13 14*	107 128	64,5 79,4	51,6 63,5	107 128	107 128	107 128	25,8 31,7
M 10	16,67	21,575	42,168	50,014	70,608	85,317	15 16 17*	150 175 201	96,2 115 134	77,0 92,3 107	150 175 201	150 175 201	150 175 201	38,5 46,1 53,5
M 12	28,44	38,246	73,550	87,279	122,60	147,10	18 19* 20*	230 261 294	160 186 215	128 149 172	230 261 294	230 261 294	230 261 294	64,0 74,5 86,0
M 14	45,11	60,801	116,70	138,30	194,20	235,40	21 22* 23*	330 368 408	247 281 319	198 225 255	330 368 408	330 368 408	330 368 408	99,0 112 127
M 16	69,63	93,163	178,5	210,80	299,10	357,90	24 25* 26*	451 496 544	359 402 449	287 322 359	451 496 544	451 496 544	451 496 544	143 161 179
M 18	95,12	127,50	245,20	289,3	411,90	490,30	27 28*	594 647	499 552	399 442	594 647	594 647	594 647	199 221
M 20	135,3	180,45	384,10	411,90	578,60	696,30	30	760	670	536	760	760	760	268
M 22	182,4	245,16	470,70	559,00	784,50	941,40	32* 34	884 1019	804 951	643 761	884 1019	884 1019	884 1019	321 381
M 24	230,5	308,91	598,20	711,00	1000	1196	36	1165	1117	894	1165	1165	1165	447
M 27	343,2	460,90	887,50	1049	1481	1775	41	1579	1442	1154	1579	1579	1579	577
M 30	465,8	622,72	1206	1422	2010	2403	46	2067	1816	1453	2067	2067	2067	726
M 33	632,5	848,30	1628	1932	2716	3266	50	2512	2145	1716	2512	2512	2512	858
M 36	814,0	1089	2099	2481	3491	4197	55	3140		2077	3140	3140	3140	1038
M 39	1059	1412	2716	3226	4531	5443	60	3849		2471	3849		3849	1235
M 42	1304	1746	3364	3991	5609	6727	65	4021		2900	4021		4021	1422
M 45	1638	2177	4207	4992	7012	8414	70	4658		3364	4658		4658	1618
M 48	1981	2638	5080	6021	8473	10150	75	5394		3862			5394	1765
M 52	2540	3393	6541	7747	10885	13092	80	6178		4394			6178	1912
M 56	3168	4227	8149	9650	13582	16279	85	6963					6963	2059
M 60	3932	5247	10101	11964	16867	20202	90	7845					7845	-
M 64	4737	6306	12160	14416	20300	24320	95	8336					8336	-

\* These sizes are not included in DIN ISO 272

**Note:** In reference to the "spanner test torque as per DIN ISO 1711-1" column, we explicitly point out that these are minimum guarantee values. Bolts from M39 in quality grades 4.6, 5.6, 6.9, 8.8, 10.9 and 12.9 are not standardised.



# TIGHTENING / TEST TORQUE

Wrench/spanner test torques in accordance with DIN ISO 1711-1 (minimum guaranteed values) N-m					Test torques for tightening tools for hexagon socket head screws										
M	mm	With internal square as per DIN 3120					DIN EN ISO 4762	No. 42T, DT42 No. 42, 42EL	No. IN 34	With hexagon head as per DIN 7422					
		6,3	10	12,5	20	25				6,3	10	12,5	20	25	
		No. 20 No. D 20	No. 30 No. D 30	No. 19 No. D 19	No. 32 No. D 32	No. D 21				No. IN 20	No. IN 30	No. IN 19	No. IN 32	No. IN 21	
							mm								
		1/4"	3/8"	1/2"	3/4"	1"									1/4"
M 2	4	10,4					1,5	0,82							
M 2,2	4,5*	12,6					2	1,9		1,9					
M 2,5	5	15,1													
M 3	5,5	17,8					2,5	3,8		3,8					
M 3,5	6*	20,6	23,2												
M 4	7	26,8	33,2				3	6,6	6,6	6,6					
M 5	8	33,6	45,5	94,1			4	16	16	16	16	16			
	9*	41,1	59,9	119,2											
M 6	10	49,1	76,7	147			5	30	30	30	30	30			
M 7	11	57,8	96	178											
	12*	67,0	118	212											
M 8	13	68,6	141	249			6	52	52	52	52	52			
	14*	68,6	169	288			7	80		78	78				
M 10	15		198	331			8	120	120	120	120	120			
	16		225	377											
	17*		225	425			9	165			165				
M 12	18		225	477			10	220	220		220	220			
	19*		225	531											
	20*		225	569			12	370	370			370			
M 14	21		225	569											
	22*		225	569	569										
	23*			569	569										
M 16	24			569	569		14	590	590			590	590		
	25*			569	583										
	26*			569	624										
M 18	27			569	665										
	28*			569	707										
M 20	30			569	795		17	980	980			1000	1000	1000	
M 22	32*			569	888										
	34			569	984										
M 24	36				1084	1677	19	1360	1360			1400	1400	1400	
M 27	41				1353	1910									
M 30	46				1569	2143	22	2110				2100	2100		
M 33	50				1569	2329	24	2750						2700	
M 36	55				1569	2562	27	3910							
M 39	60				1569	2795	30	4000							
M 42	65					2795	32	4000							
M 45	70					2795									
M 48	75					2795	36	4000							
M 52	80					2795									
M 56	85														
M 60	90														
M 64	95														

The matching test torques are derived from the theoretical load capability of the connecting square drive.


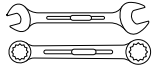

**Note:** Hand tightening sockets are unsuited to use with impact drivers. Inappropriate use poses an accident risk. Power driver sockets can be found on page 230.

# HEAD WIDTHS AND THREAD DIAMETERS

Nominal size DIN ISO 272 normal (large) mm	Thread diameter Ø		Nominal size	Nominal size		Thread diameter Ø		Nominal size	
	Metric as per DIN ISO 272	Metric for high- tensile bolted structural joints as per EN 14399-4	"AF"	Inch	mm	Whitw.	BS 916, 1083	Inch	mm
3,2 (-) 4 (-)	1,6 2								
5 (-) 5,5 (-)	2,5 3		5/32 3/16	0,1562 0,1875	3,97 4,76	8 BA 7 BA 6 BA		0,152 0,172 0,193	3,86 4,37 4,90
7 (-) 8 (-)	4 5		7/32 1/4	0,2187 0,2500	5,56 6,35	5 BA 4 BA 1/16 W		0,220 0,248 0,256	5,59 6,30 6,90
10 (-) 11 (-)	6 7		9/32 5/16	0,2812 0,3125	7,14 7,94	3 BA 3/32 W 2 BA		0,282 0,297 0,324	7,16 7,54 8,23
13 (-) 16 (-)	8 10		11/32 3/8 13/32	0,3438 0,3750 0,4062	8,73 9,52 10,32	1/8 W 1 BA 0 BA	(3/16) (7/32)	0,340 0,365 0,413	8,64 9,27 10,49
18 (21) 21 (24) 22	12 14	12	7/16 1/2	0,4375 0,5000	11,11 12,70	3/16 W 1/4 W	1/4 5/16	0,445 0,525	11,30 13,34
24 (27) 27 (30)	16 18	16	9/16 19/32 5/8	0,5625 0,5938 0,6250	14,29 15,08 15,88	5/16 W	3/8	0,600	15,24
30 (34) 32 34 (36)	20 22	20	11/16 3/4	0,6875 0,7500	17,46 19,05	3/8 W	7/16	0,710	18,03
36 (41) 41 (46)	24 27	22 24	25/32 13/16 7/8	0,7812 0,8125 0,8750	19,84 20,64 22,22	7/16 W	1/2	0,820	20,83
46 (50) 50 (55)	30 33	27 30	15/16 1.	0,9375 1,0000	23,81 25,40	1/2 W	9/16	0,920	23,37
55 (60) 60 (65)	36 39	36	1.1/16	1,0625	26,99	9/16 W 5/8 W	5/8 (11/16)	1,010 1,100	25,65 27,94
65 70	42 45		1.1/8 1.3/16 1.1/4	1,1250 1,1875 1,2500	28,58 30,16 31,75	11/16 W	3/4	1,200	30,48
75 80	48 52		1.5/16 1.3/8 1.7/16	1,3125 1,3750 1,4375	33,34 34,92 36,51	3/4 W 13/16 W	7/8 (15/16)	1,300 1,390	33,02 35,31
85 90	56 60		1.1/2 1.5/8 1.11/16	1,5000 1,6250 1,6875	38,10 41,28 42,86	7/8 W 1. W	1. 1.1/8	1,480 1,670	37,59 42,42
95 100	64 68		1.3/4 1.13/16 1.7/8	1,7500 1,8125 1,8750	44,45 46,04 47,62	1.1/8 W	1.1/4	1,860	47,24
105 110	72 76		2. 2.1/16 2.3/16	2,0000 2,0625 2,1875	50,80 52,39 55,56	1.1/4 W	1.3/8	2,050	52,07
115 120	80 85		2.1/4 2.3/8 2.7/16	2,2500 2,3750 2,4375	57,15 60,32 61,91	1.3/8 W 1.1/2 W	1.1/2 1.5/8	2,220 2,410	56,39 61,21
130	90		2.9/16 2.5/8 2.3/4	2,5625 2,3750 2,7500	65,09 66,68 69,85	1.5/8 W 1.3/4 W	1.3/4 2.	2,580 2,760	65,53 70,10
135	95		2.13/16 2.15/16 3	2,8125 2,9375 3,0000	71,44 74,61 76,20	(1.7/8W)			76,70
145	100		3.1/8 3.3/8 3.1/2	3,1250 3,3750 3,5000	79,38 85,72 88,90		2.1/4 2.1/2	3,150 3,550	80,01 90,17
150	105		3.3/4 3.7/8	3,7500 3,8750	95,25 98,42		2.3/4	3,890	98,81
155	110		4.1/8 4.1/4 4.1/2	4,1250 4,2500 4,5000	104,78 107,95 114,30		3. 3.1/4	4,180 4,530	106,17 115,06
165	115		4.5/8 4.7/8 5.	4,6250 4,8750 5,0000	117,48 123,82 127,00		3.1/2	4,850	123,19
170	120		5.1/4 5.3/8 5.5/8	5,2500 5,3750 5,6250	133,35 136,52 142,88		3.3/4 4.	5,180 5,550	131,57 140,97
180	125		5.3/4 6. 6.1/8	5,7500 6,0000 6,1250	146,05 152,40 155,58		4.1/2	6,380	162,05
185	130								
200	140								
210	150								



# SPANNER SIZES TOLERANCE FOR BOLTS AND SOCKET WRENCHES

Nominal size /s in mm 	Tolerance class 1 as per ISO 691 dimensions 		Tolerance class 2 <sup>a</sup> as per ISO 691 dimensions 	
	min.	max.	min.	max.
2 ≤ s < 3	+ 0,02	+ 0,08	+ 0,02	+ 0,12
3 ≤ s < 4	+ 0,02	+ 0,10	+ 0,02	+ 0,14
4 ≤ s < 6	+ 0,02	+ 0,12	+ 0,02	+ 0,16
3 ≤ s < 10	+ 0,03	+ 0,15	+ 0,03	+ 0,19
10 ≤ s < 12	+ 0,04	+ 0,19	+ 0,04	+ 0,24
12 ≤ s < 14	+ 0,04	+ 0,24	+ 0,04	+ 0,30
14 ≤ s < 17	+ 0,05	+ 0,27	+ 0,05	+ 0,35
17 ≤ s < 19	+ 0,05	+ 0,30	+ 0,05	+ 0,40
19 ≤ s < 26	+ 0,06	+ 0,36	+ 0,06	+ 0,46
26 ≤ s < 33	+ 0,08	+ 0,48	+ 0,08	+ 0,58
33 ≤ s < 55	+ 0,10	+ 0,60	+ 0,10	+ 0,70
55 ≤ s < 75	+ 0,12	+ 0,72	+ 0,12	+ 0,92
75 ≤ s < 105	+ 0,15	+ 0,85	+ 0,15	+ 1,15
105 ≤ s < 150	+ 0,20	+ 1,00	+ 0,20	+ 1,40
150 ≤ s < 210	+ 0,25	+ 1,22	-	-

This tolerance class applies only to ring spanners or socket wrenches that have not been manufactured by material removal.

**Spanner sizes in accordance with this international standard must be marked with:**

- a) Spanner head size
- b) Reference to the international standard, i.e. ISO 691
- c) Nominal size s in millimetres
- d) Tolerance class 1 or 2

## Conversion tables Inch to decimal-inches and mm

in.	dec.in.	mm.	in.	dec.in.	mm.
<b>0</b>	<b>0</b>	<b>0</b>	<b>1/2</b>	<b>0.5</b>	<b>12,7000</b>
1/64	0.015625	0,3969	33/64	0.515625	13,0969
1/32	0.03125	0,7938	17/32	0.53125	13,4938
3/64	0.046875	1,1906	35/64	0.546875	13,8906
<b>1/16</b>	<b>0.0625</b>	<b>1,5875</b>	<b>9/16</b>	<b>0.5625</b>	<b>14,2875</b>
5/64	0.078125	1,9844	37/64	0.578125	14,6844
3/32	0.09375	2,3812	19/32	0.59375	15,0812
7/64	0.109375	2,7781	39/64	0.609375	15,4781
<b>1/8</b>	<b>0.125</b>	<b>3,1750</b>	<b>5/8</b>	<b>0.625</b>	<b>15,8750</b>
9/64	0.140625	3,5719	41/64	0.640625	16,2719
5/32	0.15625	3,9688	21/32	0.65625	16,6688
11/64	0.171875	4,3656	43/64	0.671875	17,0656
<b>3/16</b>	<b>0.1875</b>	<b>4,7625</b>	<b>11/16</b>	<b>0.6875</b>	<b>17,4625</b>
13/64	0.203125	5,1594	45/64	0.703125	17,8594
7/32	0.21875	5,5562	23/32	0.71875	18,2562
15/64	0.234375	5,9531	47/64	0.734375	18,6531
<b>1/4</b>	<b>0.25</b>	<b>6,3500</b>	<b>3/4</b>	<b>0.75</b>	<b>19,0500</b>
17/64	0.265625	6,7469	49/64	0.765625	19,4469
9/32	0.28125	7,1438	25/32	0.78125	19,8438
19/62	0.296875	7,5406	51/62	0.796875	20,2406
<b>5/16</b>	<b>0.3125</b>	<b>7,9375</b>	<b>13/16</b>	<b>0.8125</b>	<b>20,6375</b>
21/64	0.328125	8,3344	53/64	0.828125	21,0344
11/32	0.34375	8,7312	27/32	0.84375	21,4312
23/64	0.359375	9,1281	55/64	0.859375	21,8281
<b>3/8</b>	<b>0.375</b>	<b>9,5250</b>	<b>7/8</b>	<b>0.875</b>	<b>22,2250</b>
25/64	0.390625	9,9219	57/64	0.890625	22,6219
13/32	0.40625	10,3188	29/32	0.90625	23,0188
27/64	0.421875	10,7156	59/64	0.921875	23,4156
<b>7/16</b>	<b>0.4375</b>	<b>11,1125</b>	<b>15/16</b>	<b>0.9375</b>	<b>23,8125</b>
29/64	0.453125	11,5094	61/64	0.953125	24,2094
15/32	0.46875	11,9062	31/32	0.96875	24,6062
31/64	0.484375	12,3031	63/64	0.984375	25,0031
			1	1	25,4000



**Important prefix characters**

Giga	G	1.000.000.000	= 10 <sup>9</sup>
Mega	M	1.000.000	= 10 <sup>6</sup>
Kilo	k	1.000	= 10 <sup>3</sup>
Hecto	H	100	= 10 <sup>2</sup>
Deca	Da	10	= 10 <sup>1</sup>
Deci	d	0,1	= 10 <sup>-1</sup>
Centi	c	0,01	= 10 <sup>-2</sup>
Milli	m	0,001	= 10 <sup>-3</sup>
Micro	μ	0,000001	= 10 <sup>-6</sup>
Nano	n	0,000000001	= 10 <sup>-9</sup>

**Important SI units with conversions to old but still commonly used units**

Length	metre	m		
Masa	kilogramme	kg		
Time	second	s		
Force	newton	N	= m/s <sup>2</sup>	1 N = 0,102 kp
Torque	newton metre	N·m		9,81 N·m = 1 kp·m
Energy (work)	joule	J	= N·m	
Heat quantity	joule	J		1 J = 0,239 cal
Power	watt	W	= N·m/s	1 kW = 1,36 PS = 860 kcal/h
Pressure	pascal	Pa	= N/m <sup>2</sup>	100 000 Pa = 1 bar = 10 mWS
Electrical current	ampere	A		
Temperature	kelvin	K		1 K = 1 °C

**Conversion table, mass and weight**

1 megagramme (Mg)	= 1.000 kg	= 10.000 hg	= 100.000 dag	= 1.000.000 g
1 ton (to.)	= 1.000 kg			
1 kilogramme (kg)		= 10 hg	= 100 dag	= 1000 g
1 hectogramme (hg)			= 10 dag	= 100 g
1 decagramme (dag)				= 10 g
1 gramme (g)	= 10 dg	= 100 cg	= 1000 mg	
1 decigramme (dg)		= 10 cg	= 100 mg	
1 centigramme (cg)			= 10 mg	
1 miligramme (mg)			= 1 mg	

**Conversion table, force and torque**

1 newton	= 0,102 kp
1 kilopond	= 9,81 N
1 kilopond metre	= 9,81 N·m

**Material properties**

	Density g/cm <sup>3</sup>	Expansion 1/°C	Melting point °C	Modulus of elasticity N/mm
Aluminium	2,7	0,000024	660,1	72 000
Lead	11,3	0,000029	327,3	16 000
Iron (Steel)	7,86	0,000012	1540	210 000
Gold	19,3	0,000014	1063	79 000
Copper	8,9	0,000017	1083	126 000
Zinc	7,1	0,000026	419	94 000
Glass	2,2–2,9	0,000008	800–1500	68 000
Air	0,0013	0,0036		
Wood	0,5–0,7			10 000
Plastics/synthetic materials:				
PS,	1,05	0,00008		3 400
PP,	0,9	0,00018		1 200
ABS	1,05	0,00010		2 500

Comparison table of Vickers-Brinell-Rockwell hardness and tensile strength

Vickers hardness HV 30	Brinell hardness HB 30	Rockwell hardness HRB	Rockwell hardness HRC	Tensile strength sB N/mm <sup>2</sup>
80	80,7	36,4	–	270
85	85	42,4	–	290
90	90	47,4	–	310
95	95	52,0	–	320
100	100	56,4	–	340
105	105	60,0	–	360
110	110	63,4	–	380
115	115	66,4	–	390
120	120	69,4	–	410
125	125	72,0	–	420
130	130	74,4	–	440
135	135	76,4	–	460
140	140	78,4	–	470
145	145	80,4	–	490
150	150	82,2	–	500
155	155	83,8	–	520
160	160	85,4	–	540
165	165	86,8	–	550
170	170	88,2	–	570
175	175	89,6	–	590
180	180	90,8	–	600
185	185	91,8	–	620
190	190	91,5	–	640
195	195	94,0	–	660
200	200	95,0	–	670
205	205	95,8	–	680
210	210	96,6	–	710
215	215	97,4	–	720
220	220	98,2	–	730
225	225	99,0	–	750
230	230	–	19,2	760
235	235	–	20,2	780
240	240	–	21,2	800
245	245	–	22,1	820
250	250	–	23,0	830
255	255	–	23,8	850
260	260	–	24,6	870
265	265	–	25,4	880
270	270	–	26,9	900
275	275	–	27,1	920
280	280	–	27,6	940
285	285	–	28,3	950
290	290	–	29,0	970
295	295	–	29,6	990
300	300	–	30,3	1010
310	310	–	31,5	1040
320	320	–	32,7	1080
330	330	–	33,8	1110
340	340	–	34,9	1140
350	350	–	36,0	1170
360	359	–	37,0	1200
370	368	–	38,0	1230
380	376	–	38,9	1260
390	385	–	39,8	1290
400	392	–	40,7	1320
410	400	–	41,5	1350
420	408	–	42,4	1380
430	415	–	43,2	1410
440	423	–	44,0	1430
450	430	–	44,8	1460
460	–	–	45,6	1490
470	–	–	46,3	1520
480	–	–	47,0	1550
490	–	–	47,7	1580
500	–	–	48,3	1600
510	–	–	49,1	1630
520	–	–	49,7	1660
530	–	–	50,4	1690
540	–	–	51,0	1710
550	–	–	51,6	1740
560	–	–	52,2	1770
570	–	–	52,8	1790
580	–	–	53,3	1820
590	–	–	53,9	1850
600	–	–	54,4	1870
610	–	–	55,0	1900
620	–	–	55,5	1930
630	–	–	56,0	1950
640	–	–	56,5	1980
650	–	–	57,0	2000
660	–	–	57,5	2030
670	–	–	58,0	2050
680	–	–	58,5	2080
690	–	–	59,0	2110
700	–	–	59,5	2130
720	–	–	60,4	2170
740	–	–	61,2	2220
760	–	–	62,0	2260
780	–	–	62,8	2300
800	–	–	63,6	–
820	–	–	64,3	–
840	–	–	65,0	–
860	–	–	65,7	–
880	–	–	66,3	–
900	–	–	66,9	–
920	–	–	67,5	–
940	–	–	68,0	–

**Examples**

**Example 1:**

Expansion of a steel body of 100 mm in length at a temperature of 10 °C. Length y expansion coefficient x °C exp. = 100 mm x 0,000012 x 10 = 0,012 mm = 12 μm

**Example 2:**

Elastic expansion e = s/E. A body of 100 mm in length made of ABS is stretched with s = 50 N/mm<sup>2</sup>. e = 50 N/mm<sup>2</sup>: 2500 N/mm<sup>2</sup> = 0.02. The expansion is: 100 mm x 0.02 = 2 mm.

**Example 3:**

Two steel plates with a total thickness of 20 mm are pre-stressed by means of a screw connection of s = 50 N/mm<sup>2</sup>: e = 50: 210000 = 0.00024. The compression in the surrounding area of the screw is 20 mm x 0.00024 = 0,0048 mm = 5 μm.

The elastic compression induces a continuous pre-tension of the screw connection. A properly tensed screw connection is selfinhibiting.



# GUIDELINE VALUES FOR THE COEFFICIENT OF FRICTION $\mu$

Screw thread		Steel							
		blackened or Zinc-phosphate			cadmium-plated 6 $\mu$	zinc-plated 6 $\mu$			
Nut thread			pressed rolled	rolled cut			sharpened		
	Steel	ground	Slightly oiled	0,14	0,10	0,16	0,10	0,10	
sharpened		0,16		0,10	0,16	0,10	0,10		
ground sharpened		Zinc-phosphate		0,14		0,10			
turned sharpened				0,10					
turned sharpened				0,10		0,10	0,10	0,10	
cadmium-plated		6 $\mu$					0,14		
zinc-plated								0,10	
cadmium-plated				Dry	0,10		0,10	0,14	
zinc-plated					0,10		0,10		0,14

## Choosing the right friction value

In order to exactly define the pre-tension force and the tightening torque, it is essential to know the coefficient friction.

However, it would seem almost impossible to specify definite values for the coefficients of friction for the large variety of possible surface and lubrication conditions and above all for their variance. Added to this are the variances of the various different tightening methods which also constitute a greater or lesser factor of uncertainty. For this reason, it is only possible to make recommendations on the choice of the coefficient of friction. 80 % of the tightening-torque values apply for countersunk head screws on account of the remaining base thickness.

## Guideline values for the coefficient of friction $\mu$

In order to exactly define the pre-tension force and the tightening torque, it is essential to know the coefficient of friction. However, it would seem almost impossible to specify definite values for the coefficients of friction for the large variety of possible surface and lubrication conditions and above all for their variance.

### The following circumstances influence the friction value:

The surfaces and the nature of the materials being screwed, the method of lubrication, the sliding path due to the flexibility and the tightening method, i.e. the number and the speed of the tightening cycles and finally the tightening path - the so-called hard or soft screw case. The sum total of these items represents a greater or lesser factor of uncertainty. Even DIN-equivalent screws can differ considerably in their friction value because of being delivered by different suppliers, depending on the screw lot and depending on their storage and, in particular, on the oiling or greasing performed in the course of installation. Please note that around 80 to 90% of the tightening torque in most tightening procedures is required for overcoming the friction in the screw.

### Important remark:

For this reason, it is only possible to give recommendations on the choice of the friction value. We point out explicitly that the following tables only contain guideline values. In all cases, a detailed screw calculation is more reliable than these tables! That applies particularly for parts which are relevant to safety, are subject to official regulations or perform sealing functions. The tables should only be utilised where the manufacturer of the screws or elements being connected has made no specifications on the required tightening torques.





# FRICION VALUE $\mu_{ges}$ 0,16

Friction value  $\mu_{ges}$  0,16

Shank screws with metric ISO medium threads in accordance with DIN ISO 261

0,16	P mm	4.6		5.6		6.8		8.8		10.9		12.9	
		F <sub>sp</sub> N	M <sub>A</sub> N-m	F <sub>sp</sub> N	M <sub>A</sub> N-m	F <sub>sp</sub> N	M <sub>A</sub> N-m	F <sub>sp</sub> N	M <sub>A</sub> N-m	F <sub>sp</sub> N	M <sub>A</sub> N-m	F <sub>sp</sub> N	M <sub>A</sub> N-m
M 2	0,4	324	0,140	405	0,175	647	0,280	863	0,373	1.214	0,525	1.456	0,630
M 2,5	0,45	539	0,289	674	0,361	1.079	0,578	1.439	0,770	2.023	1,083	2.428	1,300
M 3	0,5	810	0,517	1.013	0,647	1.620	1,035	2.161	1,380	3.038	1,940	3.646	2,328
M 3,5	0,6	1.086	0,811	1.358	1,014	2.173	1,622	2.897	2,163	4.074	3,042	4.889	3,650
M 4	0,7	1.403	1,199	1.754	1,499	2.806	2,398	3.742	3,198	5.262	4,497	6.314	5,396
M 4,5	0,75	1.823	1,746	2.279	2,182	3.646	3,492	4.861	4,656	6.836	6,547	8.204	7,857
M 5	0,8	2.298	2,438	2.872	3,047	4.596	4,875	6.127	6,500	8.617	9,141	10.340	10,969
M 6	1	3.241	4,139	4.051	5,173	6.482	8,277	8.643	11,036	12.154	15,520	14.584	18,623
M 8	1,25	5.951	10,083	7.438	12,603	11.901	20,165	15.868	26,887	22.315	37,809	26.778	45,371
M 10	1,5	9.477	20,01	11.847	25,02	18.955	40,03	25.273	53,37	35.540	75,05	42.648	90,06
M 12	1,75	13.821	34,96	17.277	43,69	27.642	69,91	36.857	93,22	51.830	131,08	62.195	157,30
M 14	2	18.982	55,93	23.728	69,91	37.964	111,86	50.619	149,15	71.183	209,74	85.419	251,69
M 16	2	26.145	87,30	32.682	109,13	52.291	174,61	69.721	232,81	98.045	327,39	117.654	392,87
M 18	2,5	31.755	120,08	39.694	150,10	63.510	240,15	84.680	320,20	119.081	450,29	142.897	540,34
M 20	2,5	40.852	170,52	51.065	213,14	81.704	341,03	108.939	454,71	153.195	639,43	183.834	767,32
M 22	2,5	51.093	233,3	63.867	291,7	102.187	466,6	136.249	622,2	191.600	875,0	229.921	1.050,0
M 24	3	58.827	294,7	73.534	368,3	117.654	589,3	156.872	785,7	220.601	1.104,9	264.721	1.325,9
M 27	3	77.519	433,9	96.899	542,4	155.038	867,9	206.717	1.157,2	290.696	1.627,2	348.835	1.952,7
M 30	3,5	94.179	587,3	117.724	734,2	188.358	1.174,6	251.144	1.566,2	353.172	2.202,5	423.806	2.642,9
M 33	3,5	117.488	801,9	146.860	1.002,3	234.977	1.603,8	313.302	2.138,3	440.581	3.007,0	528.697	3.608,5
M 36	4	137.811	1.028,6	172.264	1.285,7	275.623	2.057,2	367.497	2.742,9	516.793	3.857,2	620.152	4.628,6
M 39	4	165.738	1.335	207.172	1.668	331.475	2.669	441.967	3.559	621.516	5.005	745.819	6.006
M 42	4,5	189.724	1.649	237.155	2.061	379.448	3.298	505.930	4.397	711.465	6.183	853.758	7.420
M 45	4,5	222.267	2.063	277.834	2.578	444.534	4.125	592.712	5.500	833.501	7.735	1.000.201	9.282
M 48	5	249.916	2.479	312.395	3.099	499.833	4.958	666.444	6.610	937.186	9.296	1.124.624	11.155
M 52	5	300.035	3.212	375.043	4.014	600.069	6.423	800.093	8.564	1.125.130	12.043	1.350.156	14.452
M 56	5,5	345.954	3.992	432.442	4.990	691.908	7.984	922.544	10.645	1.297.327	14.969	1.556.793	17.963
M 60	5,5	404.516	4.985	505.645	6.232	809.031	9.970	1.078.709	13.294	1.516.934	18.695	1.820.321	22.433
M 64	6	457.571	6.021	571.964	7.526	915.142	12.042	1.220.189	16.056	1.715.891	22.579	2.059.069	27.095
M 68	6	524.576	7.315	655.720	9.143	1.049.152	14.629	1.398.869	19.506	1.967.160	27.430	2.360.592	32.916

Shank screws with metric ISO fine-pitch thread in accordance with DIN ISO 261

M 8	1	6.536	10,91	8.170	13,64	13.073	21,83	17.430	29,10	24.511	40,92	29.413	49,11
M 10	1	10.976	22,64	13.720	28,29	21.952	45,27	29.270	60,36	41.161	84,88	49.393	101,86
M 12	1,5	14.707	36,83	18.383	46,04	29.413	73,66	39.218	98,22	55.150	138,12	66.180	165,74
M 14	1,5	21.080	61,07	26.351	76,34	42.161	122,14	56.214	162,86	79.052	229,02	94.862	274,82
M 16	1,5	28.598	94,08	35.748	117,60	57.196	188,16	76.262	250,88	107.243	352,80	128.692	423,35
M 18	1,5	37.260	137,20	46.575	171,50	74.519	274,40	99.359	365,87	139.724	514,51	167.669	617,41
M 20	1,5	47.065	191,8	58.831	239,7	94.130	383,6	125.506	511,4	176.494	719,2	211.792	863,0
M 22	1,5	58.014	259,2	72.517	324,0	116.027	518,4	154.703	691,2	217.551	971,9	261.062	1.166,3
M 24	1,5	70.106	340,7	87.632	425,9	140.212	681,5	186.949	908,6	262.897	1.277,7	315.477	1.533,3

Specifications given without warranty.











































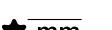




























































## Legend

- $\mu_{ges}$  = Average friction value for thread and underhead seat
- P = Pitch of the thread
- F<sub>sp</sub> = Axial pre-tension force in the screw for 90% utilisation of the screw yield point (determined in accordance with the shape-changing-energy hypothesis)
- M<sub>A</sub> = Tightening torque during installation

## Important remarks

Please make sure to read our information relating to the guideline values of the thread friction values on page 640. Taking into consideration the friction values, the above-specified table values only apply for headless screws (expanding screws generally require lower tightening values). The effective friction diameter in the screw underhead seat was defined as 1.3 x external thread diameter. For this reason, it is only possible to use them in the case of normal shank screws, generally hexagon-headed and cylindrical-head screws (e.g. DIN EN ISO 4014, 4017, 4764, DIN 7984). When screws of high strengths (8.8 to 12.9) and tensed parts made of "soft" construction materials are used, a verification of the interfacial pressure under the screw head is strongly recommended.



	Weight (total)		Square drive (external)		Unit Drive hexagon
	Weight (total)				Unit Drive bi-hexagon
	Weight hammer head		Square drive (external)		Unit Drive
	Length (total)				Hexagon
	Length (total)				Bi-hexagon
	Length (total)		Square drive (internal)		Internal-TORX®
	Length (total)				Internal TORX® with pilot
	Length of blade				TORX PLUS®
	Length of blade		Square drive (internal)		External TORX®
	Length of shaft / handle				Internal serrations XZN
	Length of point / blade				Multi-spline RIBE®
	Diameter (also dia. of head, of shaft, of points)		Hexagon drive (external)		Female three-square
	Diameter		Hexagon drive (external)		TORQ-SET®
	Diameter of hole (external)				Tri-Wing®
	Diameter of hole (internal)		Hexagon drive (internal)		Cutting edge thickness
	Width across flats (Nominal Width)		Hexagon drive (internal)		Jaw width / tape width
	Width across flats (Nominal Width)				Head width
	Width across flats (Nominal Width)		Puller		VDE Test Symbol (Tool)
	Width across flats (Nominal Width)		Clamping spread		Test Symbol (Protective equipment)
	Width across flats (Nominal Width)		Clamping reach		For working in voltage areas up to 1000 V
	Width across flats (Nominal Width)		Size of spindle		Wire rope
	Width across flats (Nominal Width)		Hydraulic spindle		Jaws, angled 45°
	Width across flats (Nominal Width)		Throat depth		Flat jaws
	Width across flats (Nominal Width)		Opening capacity		Flat-round jaws
	Width across flats (Nominal Width)		Drive sections		Round jaws
	Width across flats (Nominal Width)		Slotted		Straight jaws
	Width across flats (Nominal Width)		Cross-slotted PH		Flat-round jaws
	Width across flats (Nominal Width)		Cruciform PZ		Round jaws
	Width across flats (Nominal Width)		Internal square		
	Width across flats (Nominal Width)		Hexagon internal		
	Width across flats (Nominal Width)		Internal hexagon with tamper proof hole		
	Width across flats (Nominal Width)		External hexagon		
	Width across flats (Nominal Width)		Bi-hexagon external		
	Width across flats (Nominal Width)				
	Width across flats (Nominal Width)				
	Width across flats (Nominal Width)				
	Width across flats (Nominal Width)				
	Width across flats (Nominal Width)				
	Width across flats (Nominal Width)				
	Width across flats (Nominal Width)				
	Width across flats (Nominal Width)				
	Width across flats (Nominal Width)				



## Customised for you!

Individual - precise - customised - flexible - right on!



- > Individual product design
- > All RAL colour tints can be produced



- > Foam configurator
- > Bespoke tool modules
- > Two-colour check tool inserts
- > Individual tool set for each insert



- > Extra-size tools
- > Mini batches: Production as of 1 item
- > Special-purpose tools



	Cutting edge with bevel		Drawer		Cylinder lock with folding key
	Cutting edge without bevel		Door		Total brake
	Straight jaws		Shelf		Length/crosswise dividers
	Angled jaws 45°		Pivoting angle		Individual blocking
	Angled jaws 90°		Angle		Thickness of workplate
	Internal retaining rings		Weld-on end fitting		Multi fitting key
	External retaining rings		End fitting with hexagon wrench		Magnetic lifting power
	EPA / ESD, electrostatic discharge		Open end fitting		Stepped key
	Electronic		Flared end fitting		Head height
	File profile flat		Ring end fitting		Head diameter
	File profile three-edged		End fitting with square head		Friction ratchet
	File profile round		Bit holder end fitting		Sliding T bar
	File profile half-round		Ratchet end fitting		Extension
	File profile square		Anti-wind-up-ratchet		Universal joint
	Blade / Cutting edge width		Factory certificate		Driving handle
	Blade thickness		Visual display digital		Adaptor
	Gear ratio		RS 232 interface		Handle
	Output torque (max. N-m)		Bi-directional tightening		Head
	Input torque (max. N-m)		Audible reaction (click)		Dimension shaft
	Scale divisions		Mechanical torque multiplier		Dimension head/striking face
	Single square drive		Integrated electronic hardware		Type of jaw
	Double square drive		DREMOMETER MINI-F operable w/o inaccuracies		POWER PLIERS
	Drive connector		1% Tolerance		Tip diameter
	Spigot-end drive		3% Tolerance		Tip diameter
	in cardboard or plastic packaging		4% Tolerance		Spread range
	in sheet metal box		6% Tolerance		new
	Set in sheet metal or plastic box		Extension with release		Safety symbols
	Head width		Release head		
	Distance, hole to edge		Click Tools		
	GS Seal of tested quality		Slipping Tools		
	magnetic		Breaking Tools		
	Radius		Central locking		
			Cylinder lock		

> Specific surface treatments possible  
> e.g. colour anodising and much more



> High-quality forgings based on your requirements  
> Special-purpose tools



> Special electronic product programming  
> Determining/implementing individual maintenance intervals (calibration/services)



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# AUTOMOTIVE TOOLS





## COMPANY PROFILE

KLANN was established in Donaueschingen in 1978.

We are a medium-sized, internationally operating company, based in Donaueschingen, and specialise in the development and manufacture of specialist tools for the Automotive Industry and Aftermarket.

We have been partner in the GEDORE Group since 2002.

At our head office in Donaueschingen, we currently employ a staff of 100 highly qualified and motivated people, including 10 apprentices. With more than 90 Patents and German Utility Models at home and abroad, GEDORE Automotive is one of the world's leading manufacturer of professional automotive tools.

Following the brand integration into the GEDORE Group, KLANN Spezial-Werkzeugbau GmbH has become GEDORE Automotive GmbH with effect as from 1 January 2016.

All premium brands and products of the GEDORE Group are now marketed under the renowned brand name GEDORE: from the core brand GEDORE, under which high-quality tools made in Germany have been offered since 1919, the specialist brands KLANN for the Automobile Industry and Aftermarket and LÖSOMAT specialised in torque wrench technology, to GEDORE Solutions, a real problem solver, dedicated to developing and manufacturing customer-specific tools. All these premium brands and products have now been consolidated into the strong GEDORE brand.

When it comes to facilitating and optimizing professional vehicle repairs, GEDORE Automotive's specialist tools are the tools of choice - worldwide.

It is our primary objective to make repairs safer, easier and faster, and, thus, more cost-effective. To achieve this goal, we continuously design and develop innovative professional tools for all types of vehicles in our fully equipped experimental workshop.

An immediate response to the needs and requirements of the market is vital. With this in mind, we design and manufacture our tools with state-of-the-art technology and offer practical training courses showing the correct use of our tools in situ on the vehicle in our Training Centre.

In addition to the premium brand GEDORE, carolus stands as GEDORE's second brand for reliable professional tools in the mid-price segment also in the future. Ochsenkopf continues to be our specialist manufacturer of outstanding forestry and carpenter tools with a longstanding tradition.

With this new brand strategy, GEDORE has positioned itself more clearly in the market as a one-stop provider of smart solutions with a wide, high-quality product range of more than 16,000 items.

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# Uncompromisingly to a high grade and quality.

We are one of the world's quality leaders in professional tools, workshop furnishings and non-standard solutions for industry, the trades, automotive/utility vehicles and renewable energies, amongst others. Without a doubt, this ranks the GEDORE Group amongst the leading manufacturers on the European market.

Quality is bound up with obligations – something we take seriously and consistently orientate ourselves to. This begins with selecting first-rate materials with which to manufacture our products. The extensive track record of our skilled staff and use of modern, efficient production processes have allowed us to manufacture that premium tool from high-grade material - one which has been synonymous with the GEDORE name for almost 100 years.

When manufacturing our innovative products we rely above all on proven expertise. A great many of our goods are made in a forging process, mostly drop-forging. The result is outstanding quality in terms of robustness, toughness and dimensional stability. It is not without reason that we operate one of the world's largest hydraulic double-acting hammers, which other suppliers greatly appreciate who have their forged parts made by us.

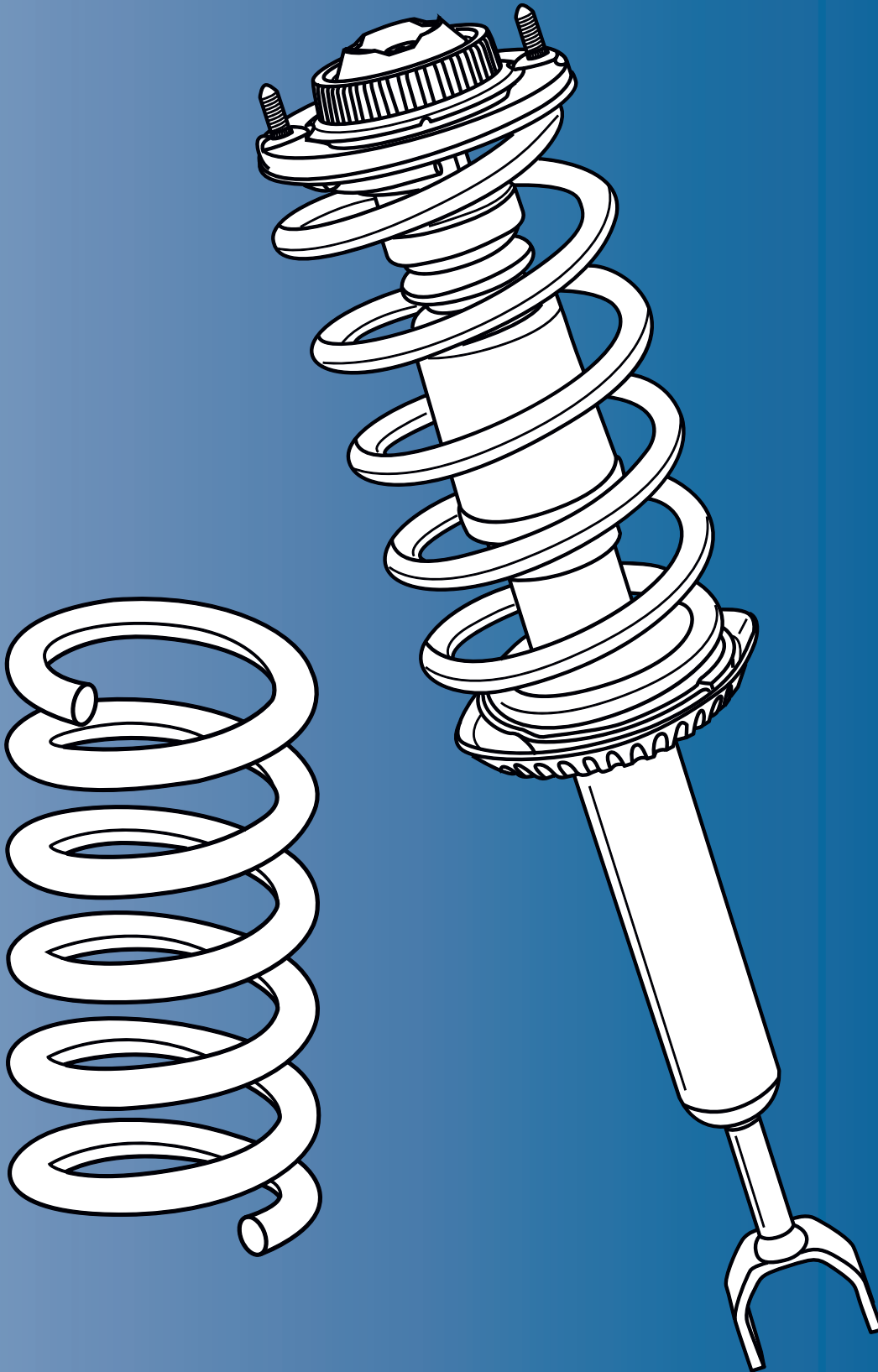
In addition, maximum ergonomics, functionality and precision are very much features of our products. The prime example for a profitable association of all these features is the ALU DREMOMETER – as ever the absolute ultimate in mechanical torque technology.

We see conscientious compliance with quality standards not only as a must, but also as an incentive to go that one step further. In many cases, our tools exceed DIN requirements. Our production processes are continually subjected to examination and auditing. We are certified in accordance with DIN ISO 9001 standards and our calibration laboratories have passed DAkkS auditing as well as other standards.

As a manufacturer we place our faith in a sustained assortment configuration. As such, we create a high degree of investment and planning reliability for you – another reason, in fact, to trust in us.

**We do our best.  
Without any reservations attached.**





# Springs and Shock Absorbers



1



## KL-0029-10 K

(Patented)

### Coil Spring Pre-Compressor in a Plastic Storage Case, VW-Audi

**Designed for the VW-Audi, Seat, Škoda vehicles built on the MQB, PQ25, PQ35 and NSF platforms such as VW Caddy III (2K), EOS (1F7), Golf V (1K, 6R), Golf VI (5K), Golf VII (5G), Golf Plus (5M), Jetta III (1K2), Polo (6R), Passat (3C, 363, 365), Scirocco (137), Touran (1T), Tiguan (5N), up! (12); Audi A1 (8X), A3 (8P, 8V), TT (8J), Q3 (8U); Seat Altea (5P1), Altea XL (5P1), Ibiza V (6J5), Ibiza V ST (6J8), Leon II (1P1), Toledo III (5P2), Mii (KF1); Škoda Octavia (1Z3), Octavia (1Z5), Superb (3T4), Rapid, Citigo etc.**

The **KL-0029-10 K** coil spring pre-compressor allows for the removal and installation of the specified struts after repairs without the need for performing any wheel alignment that might be required by the manufacturer. A special feature of the spring pre-compressor is that pre-tensioning the spring in situ on the vehicle enables the strut to be removed without the need for releasing the control arm/drive shaft, upper ball joint or track rod joint. Due to the unique design of the tool, the shape of the spring is irrelevant. The spring pre-compressor is suitable for a wide range of applications thanks to its compact design comfortably fitting the strut mount area, and the interchangeable support plates.

Its innovative concept saving job time of up to 25% and eliminating the need for axle work and wheel alignment makes this spring pre-compressor a rewarding investment both for now and the future.

#### Advantages:

- Substantial time and cost savings.
- Eliminates the need for releasing the control arm.
- Eliminates the need for releasing the drive shaft.
- Eliminates the need for releasing the track rod end or upper ball joint.
- Eliminates the need for wheel alignment.
- Design allows for use on coil springs regardless of their shape and pitch.
- All components are available individually as spare parts.

#### Note/Accessory:

To remove stuck/tight-fitting shock absorbers/strut units from stub axle clamping bores, it is essential to enlarge the clamping bore with the aid of the **KL-0104-21-1 A** spreader tool.

#### Technical Data:

Max. load capacity:	17,500N
Max. opening distance*:	335mm
Compression travel*:	110mm
Clamping nut drive:	27mm

\* = without support plate

#### Scope of Delivery:

##### KL-0029-10 K Coil Spring Pre-Compressor in a Plastic Storage Case, VW-Audi

Part No.	Description	Qty
KL-0029-10	Coil Spring Pre-Compressor, VW-Audi	1
KL-0029-1090	Plastic Storage Case	1

#### Scope of Delivery:

##### KL-0029-10 Coil Spring Pre-Compressor, VW-Audi

Part No.	Description	Qty
KL-0029-100	Base Tool with Screws	1
KL-0029-111	Support Plate with Bolts, Size 1	1
KL-0029-120	Upgrade Kit, Size 2	1
KL-0029-130	Upgrade Kit, Size 3	1
KL-0029-1303	Shock Absorber Holding-Down Clamp	1



#### Accessories (on demand):

**1993 U-20** CODE:1436686 - Reversible ratchet



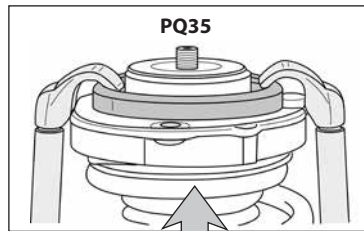
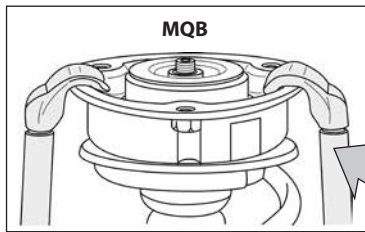
Coil Spring Pre-Compressor

(Pat.)

KL-0029-10

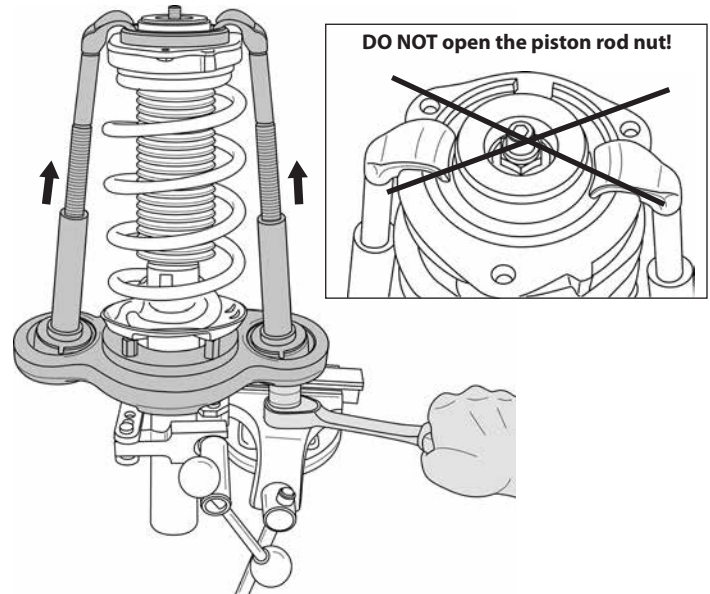
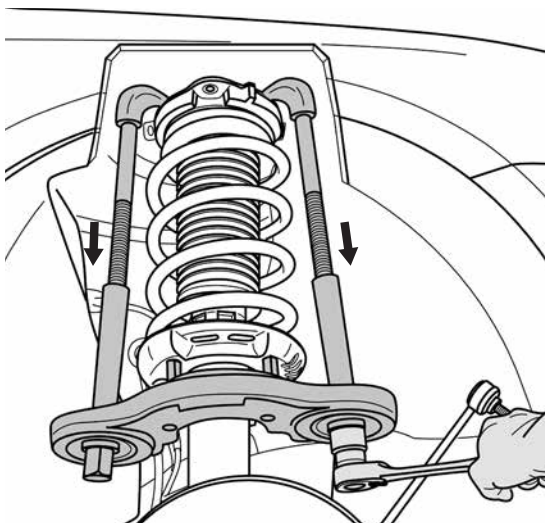
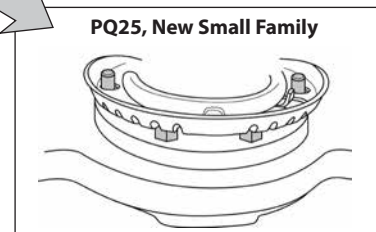
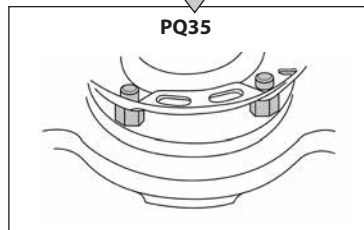
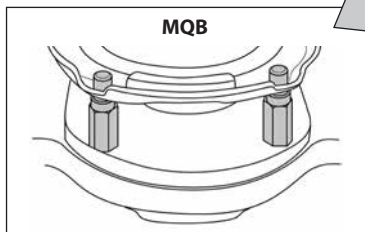
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Positioning the coil spring pre-compressor:



Clean the surfaces for the support rings and strut mount from dirt and rust.

Apply coil spring pre-compressor against strut as shown.



To compress the strut, uniformly and alternately turn the drive nuts clockwise by means of a 1/2" reversible ratchet in conjunction with a 27mm (waf) socket as shown.

Remove strut from strut clamping bore.  
Clamp strut in the KL-0055-60 holding fixture (accessory).

**Note:** The KL-0029-10 coil spring pre-compressor must not be used for disassembling suspension struts.

To relieve pressure on the strut, uniformly and alternately turn the drive nuts counter-clockwise by means of a 1/2" reversible ratchet in conjunction with a 27mm (waf) socket until the hooks are released.  
Remove coil spring pre-compressor from strut.

1



## KL-0029-11 K

(Patented)

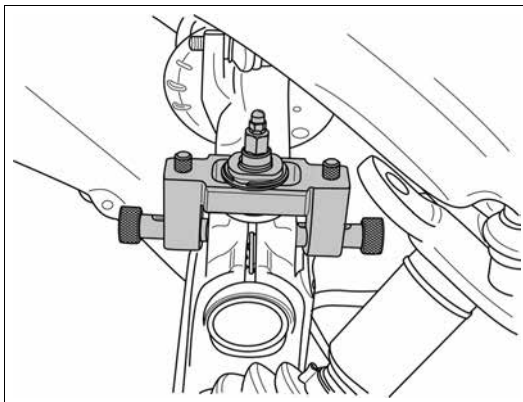
### Coil Spring Pre-Compressor Kit, in a Storage Case

Designed for the VW-Audi, Seat, Škoda vehicles built on the MQB, PQ25, PQ35 as well as NSF platforms such as: VW Caddy III (2K), EOS (1F7), Golf V (1K, 6R), Golf VI (5K), Golf VII (5G), Golf Plus (5M), Jetta III (1K2), Polo (6R), Passat (3C, 363, 365), Scirocco (137), Touran (1T), Tiguan (5N), Up! (12); Audi A1 (8X), A3 (8P, 8V), TT (8J), Q3 (8U); Seat Altea (5P1), Altea XL (5P1), Ibiza V (6J5), Ibiza V ST (6J8), Leon II (1P1), Toledo III (5P2), Mii (KF1); Škoda Oktavia (1Z3), Oktavia (1Z5), Superb (3T4), Rapid, Citigo etc.

The **KL-0029-11 K** coil spring pre-compressor kit allows for the fast, safe and professional removal and installation of the specified struts after repairs without the need for performing any wheel alignment that might be required by the manufacturer. With the **KL-0104-21..** spreader tool, the clamping bore can be enlarged exactly to the required size. Then, by pre-compressing the spring in situ on the vehicle with the aid of the **KL-0029-10** coil spring pre-compressor, the strut can easily be removed without the need for releasing the control arm/drive shaft, upper ball joint or track rod joint. Due to the unique design of the tool, the shape of the spring is irrelevant.

The kit is suitable for a wide range of applications, thanks to the interchangeable support plates and the compact design of the pre-compressor comfortably fitting the strut mount area.

Its innovative concept saving job time of up to 25% and eliminating the need for axle work and wheel alignment makes this spring pre-compressor kit a rewarding investment both for now and the future.



#### Scope of Delivery: KL-0029-11 K Coil Spring Pre-Compressor Kit, in a Storage Case

Part No.	Description	Qty
KL-0029-11 E	Coil Spring Pre-Compressor Kit, in a Foam Insert	1
KL-4999-1397	Plastic Storage Case	1

#### Scope of Delivery: KL-0029-11 E Coil Spring Pre-Compressor Kit, in a Foam Insert

Part No.	Description	Qty
KL-0029-11	Coil Spring Pre-Compressor Kit	1
KL-4999-1324	Foam Insert	1

#### Scope of Delivery: KL-0029-11 Coil Spring Pre-Compressor Kit

Part No.	Description	Qty
KL-0029-10	Coil Spring Pre-Compressor	1
KL-0104-21-1 A	Spreader Tool with Wedge No.1 and No.2	1
KL-0104-211	Spreader Tool Upgrade Kit, VW T5	1

#### Scope of Delivery: KL-0029-10 Coil Spring Pre-Compressor, VW-Audi

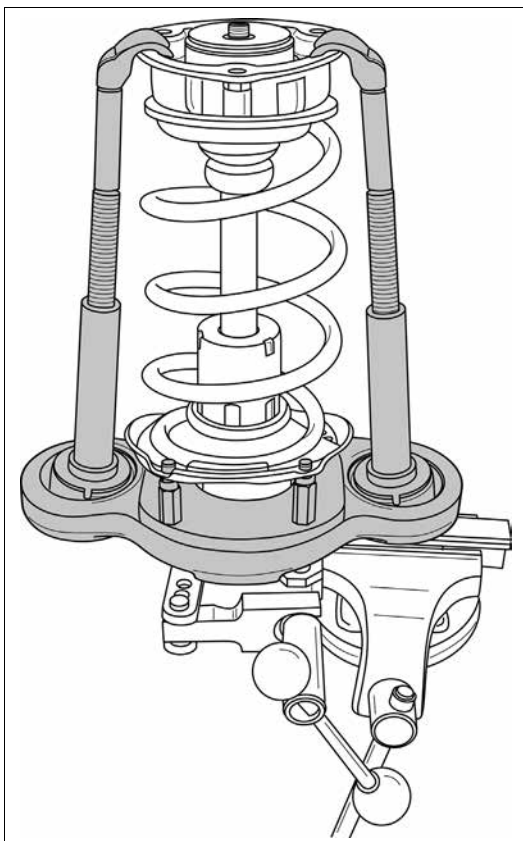
Part No.	Description	Qty
KL-0029-100	Base Tool with Screws	1
KL-0029-111	Support Plate with Bolts, Size 1	1
KL-0029-120	Upgrade Kit, Size 2	1
KL-0029-130	Upgrade Kit, Size 3	1
KL-0029-1303	Shock Absorber Holding-Down Clamp	1

#### Scope of Delivery: KL-0104-21-1 A Spreader Tool Kit with Wedge No.1 and No.2

Part No.	Description	Qty
KL-0104-21 A	Spreader Tool (adjustable) with Wedge No.1	1
KL-0104-2122	Pressure Screw with Wedge No.2	1

#### Scope of Delivery: KL-0104-211 Spreader Tool Upgrade Kit, VW T5

Part No.	Description	Qty
KL-0104-2123	Pressure Screw with Wedge No. 3	1
KL-0104-2111	Bolt, Ø 10mm for thread bore	1

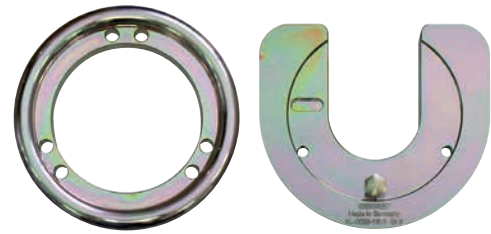


## KL-0029-160 Upgrade Kit, Size 6

Suitable for BMW front axle suspension struts; as found in BMW 3 Series (E46), (E90/E91); 5 Series (E39), (E60/E61), 1 Series (E81/E87).

The KL-0029-160 kit is designed to upgrade the KL-0029-100 coil spring pre-compressor base tool/the KL-0029-10 K/KL-0029-11 K coil spring pre-compressors by making these also suitable for use on the above-mentioned vehicles.

**Note:** The KL-0029-16 K coil spring pre-compressor kit for BMW consists of KL-0029-100, KL-0029-160 and the plastic storage case KL-0029-1090.



**Scope of Delivery: KL-0029-160 Upgrade Kit, Size 6**

Part No.	Description	Qty
KL-0029-161	Support Plate with Bolt, Size 6	1
KL-0029-1602	Support Ring, Size 6	1

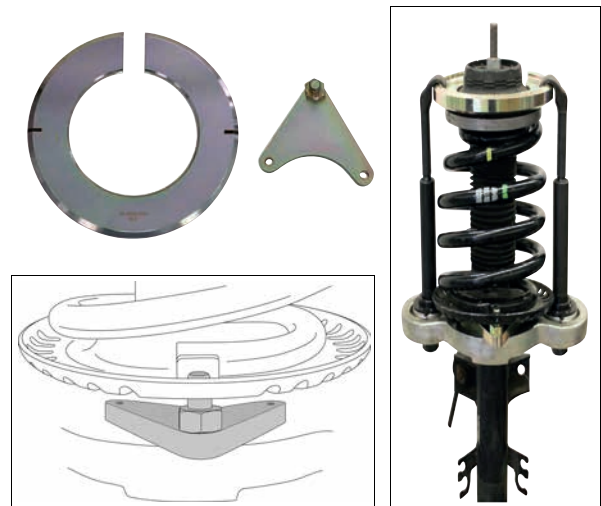
## KL-0029-170 Upgrade Kit, Size 7

Suitable for VW front axle suspension struts; as found in VW T5 (7J, 7H, 7E, 7F).

The KL-0029-170 kit upgrades the KL-0029-100 coil spring pre-compressor base tool/the KL-0029-10 K/KL-0029-11 K coil spring pre-compressors by making these also suitable for use on the above-mentioned vehicles.

**Scope of Delivery: KL-0029-170 Upgrade Kit, Size 7**

Part No.	Description	Qty
KL-0029-171	Support Plate with Bolt, Size 7	1
KL-0029-1702	Support Ring, Size 7	1



## KL-0029-1303 Shock Absorber Holding-Down Clamp

Suitable for Audi A1 (8X), Seat Ibiza V (6J5), Seat Ibiza V ST (6J8), Škoda Rapid, VW Polo V (6R) etc.

Designed to facilitate the removal of suspension struts. The use of the KL-0029-1303 shock absorber holding-down clamp ensures that the piston rod is securely held and pressed down in the upper spring plate while the suspension strut is being pre-compressed with the aid of the KL-0029-10 tool.

Supplied with the KL-0029-10 coil spring pre-compressor.



## KL-0145-120 A Supporting Device for Control Arm

**Universal application.**

The device is used in conjunction with a transmission jack for supporting control arms. The support takes place via the wheel hub, thus, ensuring the correct raising and lowering of control arms/axles to specified positions. An indispensable tool when removing and installing a suspension strut.



1



## Mobile Modular Workstation

"MODULO Chassis/Suspension, Master Tool Kits"

**Universal application.**

The example of the Mobile Modular Workstation "**MODULO Chassis/Suspension, Master Tool Kits**" shows the ideal configuration of tool modules for the mobile workplace with all the tool needed for the fast, organised and cost-effective replacement of suspension struts/shock absorbers.

**Possible equipment of the:**

**Mobile Modular Workstation "MODULO Chassis/Suspension, Master Tool Kits"**

Part No.	Description	Qty
KL-5501	Spring Compressor (Stationary)	1
KL-0029-11 E	Coil Spring Pre-Compressor Kit	1
KL-9002 SP E	Telescopic Safety Spring Compressor	1
KL-9001-16 SP	Pair of Jaws with Protective Inserts, Size 0, Extended Design	1
KL-0021 E	Spring Compressor	1
KL-0056-10 E	Shock Absorber Piston Rod Tool Set	1
KL-4999-1202	Drawer Divider with Rivets	2
KL-4999-1203	Drawer Divider with Rivets	1
KL-4999-1325	Drawer Insert Adaptor	3
KL-4999-1329	Drawer Insert, 651mm	1
KL-4999-120	Workshop Trolley/Workbench (without tools)	1

## Mobile Modular Workstation

"MODULO Chassis/Suspension, Base Tool Kits"

**Universal application.**

The example of the Mobile Modular Workstation "**MODULO Chassis/Suspension, Base Tool Kits**" shows the ideal configuration of tool modules for the mobile workplace with all the basic tool needed for the fast, organised and cost-effective replacement of suspension struts/shock absorbers.

**Possible equipment of the:**

**Mobile Modular Workstation "MODULO Chassis/Suspension, Base Tool Kits"**

Part No.	Description	Qty
KL-5501	Spring Compressor (Stationary)	1
KL-0029-11 E	Coil Spring Pre-Compressor Kit	1
KL-0056-10 E	Shock Absorber Piston Rod Tool Set	1
KL-4999-1202	Drawer Divider with Rivets	1
KL-4999-1203	Drawer Divider with Rivets	1
KL-4999-1325	Drawer Insert Adaptor	1
KL-4999-1329	Drawer Insert, 651mm	1
KL-4999-120	Workshop Trolley/Workbench (without tools)	1

# KL-5501 (Patented)

## Spring Compressor (Stationary)

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**Universally suitable for MacPherson suspension and damper strut designs; for example, for those with standard springs, right-hand or left-hand coiled springs, eccentric springs or spring plates, conical springs, springs with a small number of windings, springs with high or varying spring coil pitch.**

This spring compressor allows the spring to be compressed with its upper spring plate against the lower spring plate, hence the spring shape or the spring coil pitch are irrelevant. The variably settable spring-compressing assembly, the adjustable support column assembly and the strut-holding clamp with one-hand operation widen the field of application of the spring compressor to virtually any strut or shock absorber while, at the same time, satisfying the highest Health and Safety Standards.

**Advantages:**

**Universal application!**

The special design of the spring-compressing assembly, respectively the jaws, as well as of the cantilever arms and swivelling bar, enables repairs to the above mentioned MacPherson suspension/damper strut designs to be carried out safely, quickly and professionally.

**No damage to the strut tube!**

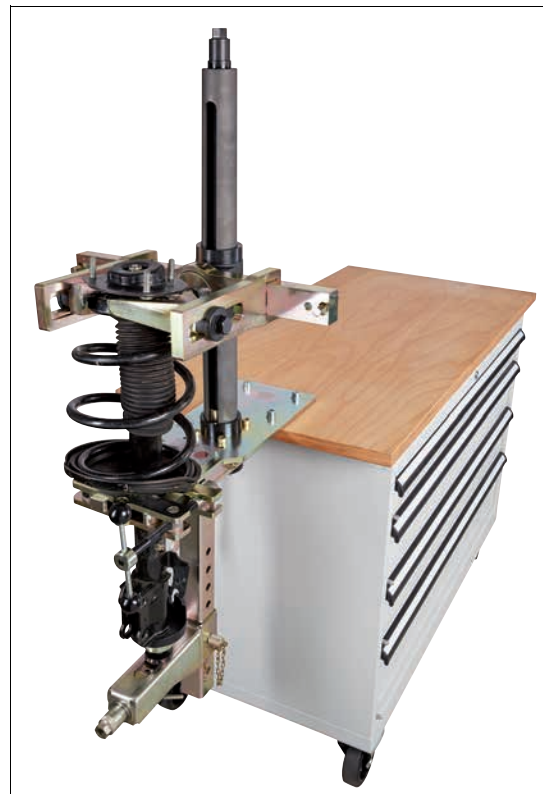
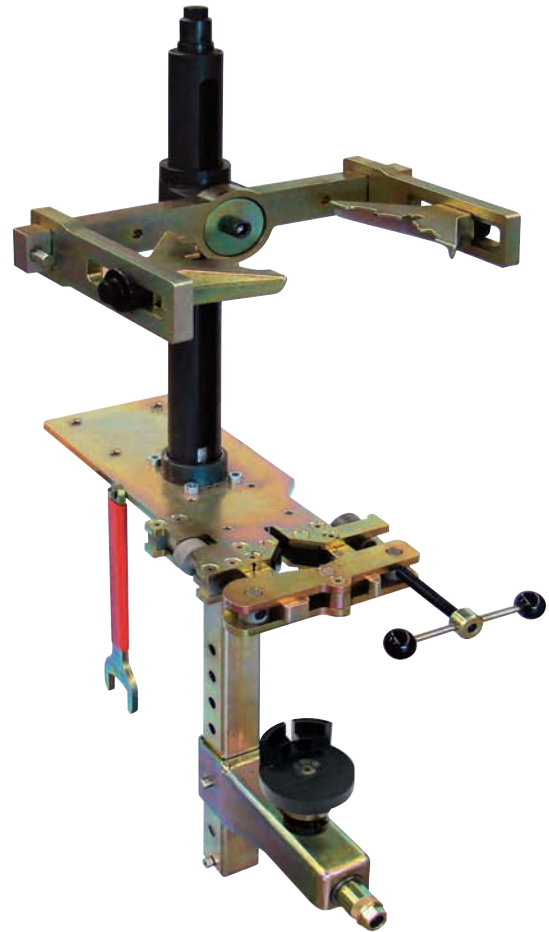
The clamping bars of the strut-holding clamp can quickly be adjusted to the respective strut tube diameter by means of a knurled nut. Clamping jaws feature protective plastic coating.

**Allows for one-person operation!**

The whole procedure can be carried out by just one person. The strut-holding clamp is equipped with a quick-clamping and a one-hand-operation device to allow for ease of use.

**Mobile use, e.g. with workshop trolley/workbench (KL-4999-120)**

The stationary spring compressor features a mounting plate that enables it to be fixed either to the workshop trolley KL-4999-120 or to a workbench. The workshop trolley is ideal for use in garages and workshops allowing the mechanic to carry out repairs conveniently next to the vehicle.



**Technical Data:**

Breaking point:	60,000N
Drive:	24mm
Max. load capacity:	15,000N
Weight without trolley:	46kg

**Accessories (on demand):**

**1993 U-20 CODE:1436686 - Reversible ratchet**



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Universally applicable to all common MacPherson suspension/damper strut designs, e.g., with ...



...right-hand coiled springs



...left-hand coiled springs



...conical springs



...eccentric springs



...springs with high spring coil pitch



...springs with a small number of windings



...springs with varying spring coil pitch



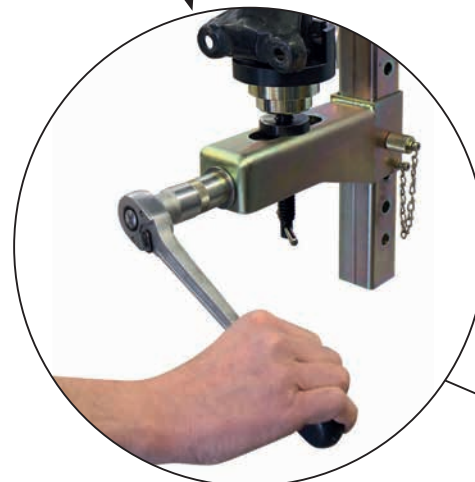
☑ Safe and effective working.

Flexible spring-compressing assembly (e.g., necessary on Mercedes W203)



Central positioning of the piston rod

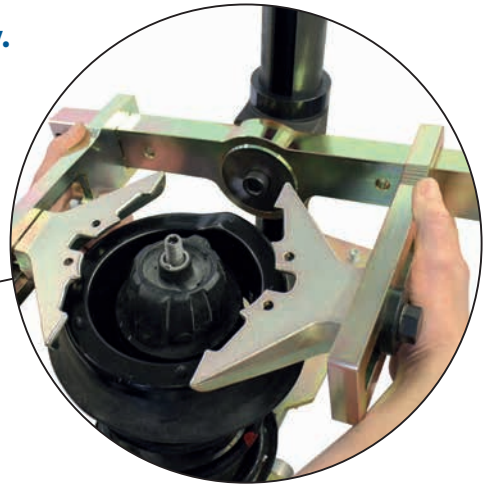
☑ High-quality product made in Germany.



Aligning the suspension strut

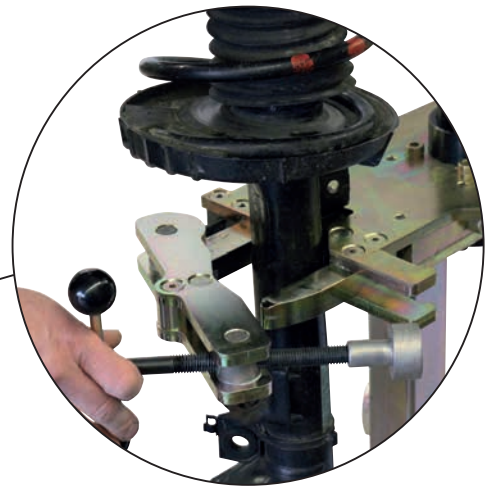
- ☑ **Variably adjustable spring-compressing assembly. No additional jaws needed.**

Spring-compressing assembly, infinitely adjustable

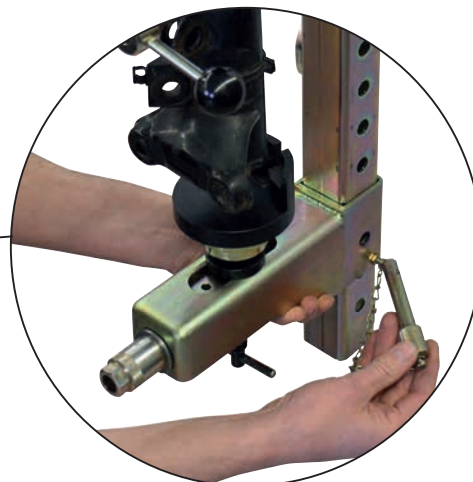


- ☑ **Easy to use.**

Quick-action strut-holding clamp (damage-free and secure retention of the damper)

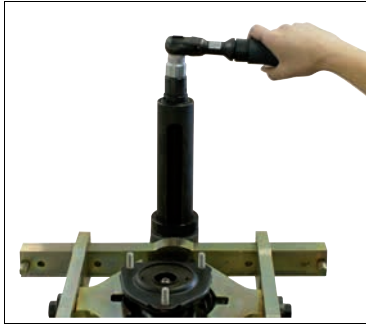


Supporting column assembly, adjustable in height





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## GEDORE 5011 Code: 1479229 Ratchet Wrench 1/2"

### Technical Data:

Drive square:	1/2"
Idle speed:	180rpm
Max. torque:	67Nm
Compressed air connector:	1/4"
Working pressure:	6.2bar
Air consumption:	220 l/min
Length:	270mm
Height:	60mm
Weight:	1.2kg



## KL-4999-120 Workshop Trolley/Workbench (without tools)

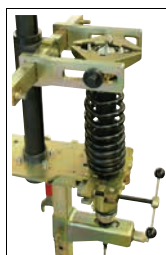
The sturdy workshop trolley/workbench **KL-4999-120** is designed to be used in conjunction with the stationary spring compressor **KL-5501** as well as with the wheel bearing/silentbloc tools of the **KL-0039-Series**, thus providing you with a professional and mobile workplace for accurate and quick chassis or axle repairs. The large Multiplex worktop made from solid beech offers the ideal work surface. The convenient push handle and the smooth-running castors (125mm), two of them are steering castors with brakes, ensure the easy and mobile use of the trolley. The 4 drawers feature an individual locking mechanism as well as a central lock designed to prevent any unintentional opening of the drawers. Each drawer has a load capacity of up to 80kg. Thanks to the full-extension slides, the drawers can be pulled out completely, thus, allowing for proper storage, full visibility and easy access to the tools. An ingenious "one-drawer-at-a-time" interlock mechanism prevents the opening of several drawers at the same time and, as a result, the trolley from tilting/tipping over. The unique GEDORE Automotive Modular System allows you to customize each of the drawers with the foam inserts of the **KL-4999-131..-Series** and all the necessary tool sets to meet exactly your requirements. This provides you with the possibility of creating your own "Mobile Modular Workstation" tailor-made and always perfectly adapted to your specific needs, thus helping you to significantly improve the productivity of your workshop. The foam inserts of the **KL-4999-131..-Series** are designed to keep your GEDORE Automotive tools always properly organised and well protected. This ingenious tool storage system from GEDORE Automotive allows you to find the tool you need quickly and easily, and to identify missing tools at a glance. As a result, repairs can be carried out more efficiently - saving you time and money. The foam inserts are provided with specifically tool-shaped spaces to ensure that tools are safely stored and can be taken out and put back in place with ease.



### Technical Data:

Dimensions:	W 1200 x H 900 x D 600mm
Worktop:	W 1200 x H 25 x D 600mm
Drawer (1x):	W 1000 x H 100mm
Inner dimensions of drawer:	W 1000 x H 95 x D 445mm
Drawer (2x):	W 1000 x H 150mm
Inner dimensions of drawer:	W 1000 x H 140 x D 445mm
Drawer (1x):	W 1000 x H 200mm
Inner dimensions of drawer:	W 1000 x H 190 x D 445mm
Steering castor with brake (2x):	Ø 125mm
Fixed castor (2x):	Ø 125mm
Weight:	125kg

**Note:** For additional accessories for this workshop trolley/workbench such as the storage system of the **KL-0039 Series**, please refer to chapter 10 in this Catalogue.



## KL-5501-161 (German Utility Model) Adaptor for Mercedes M-Class

**Suitable for Mercedes M-Class (W163) rear suspension strut assemblies.**

The **KL-5501-161** adaptor is designed to enable the specified rear suspension struts to be placed on the lower supporting plate of the strut-holding clamp. For this, the adaptor is attached to the lower end of the strut.

## KL-5501-171

### Adaptor Ring, Nissan, Renault, Fiat

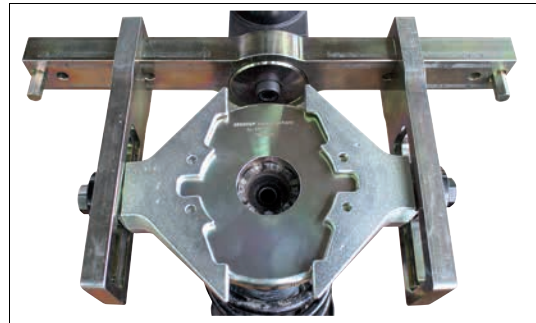
Suitable for front suspension strut assemblies as fitted to Nissan Qashqai (J11), Renault Kadjar and Fiat Panda (312, 319).

The **KL-5501-171** adaptor ring enables the jaws of the **KL-5501** spring compressor to be safely positioned on the spring plate of the front suspension strut.

For this, place adaptor ring on upper spring plate. Observe mark **Top/oben** on adaptor ring!

**Technical Data:**

External Ø:	170mm
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## KL-5501-1435

### Adaptor for Mercedes (W164)

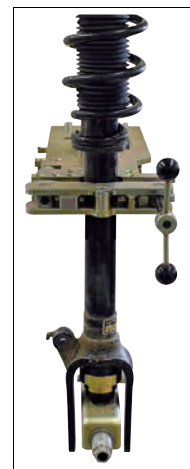
Suitable for suspension strut assemblies found at the front axle of Mercedes M-Class (W164).

The **KL-5501-1435** adaptor allows front suspension struts of the Mercedes M-Class (W164) to be safely and securely placed onto the lower supporting plate of the **KL-5501** spring compressor.

The adaptor is mounted to the spring compressor instead of the **KL-5501-1431** plastic rest.

**Technical Data:**

Adaptor Ø:	57mm
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## KL-9001-3141

### Adaptor Ring, Mercedes W212

Suitable for Mercedes E-Class (W212), front suspension strut.

The **KL-5501-1435** adaptor allows front suspension struts of the Mercedes M-Class (W164) to be safely and securely placed onto the lower supporting plate of the **KL-5501** spring compressor. The adaptor is mounted to the spring compressor instead of the **KL-5501-1431** plastic rest.



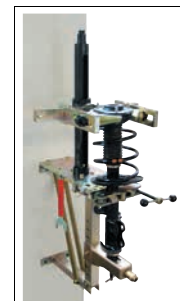
## KL-5501-20

### Wall Mount Bracket

The **KL-5501-20** wall mount bracket enables the stationary spring compressor **KL-5501** to be fixed to a vertical wall.

**Technical Data:**

Weight:	4.8kg
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## Telescopic Safety Spring Compressor

KL-9002

☑ Maximum load 27,500N.

☑ Automatic freewheel of the spindle.

☑ All components are available as spare parts.

☑ Universally suitable, for example, for MacPherson strut/semi-strut designs.

☑ No key bed in the piston .  
➢ High Load Capacity.

☑ High-quality product made in Germany.

☑ Cylinder and piston nitrided (68 Rockwell) ensuring high wear resistance.



☑ Bayonet Locking System for jaw mounting with automatic self-locking mechanism.

☑ Sealed Spindle System „Maintenance-Free“ (no particles can enter).

☑ Latching System for adjusting the jaw opening width.

☑ A wide range of jaws for various applications available.

☑ Interchangeable plastic protective inserts to prevent the spring from breakage caused by notches and corrosion.

Compressing and decompressing a conical spring.



Compressing the spring in situ on the vehicle, and removing it.

Compressing the spring via the upper spring plate.



Compressing the spring via the upper spring plate.

# KL-9002

## Telescopic Safety Spring Compressor

Universally suitable for vehicles equipped with MacPherson suspension/damper struts. Ideal for all-wheel-drive vehicles, transporters and vans such as Citroën Jumper; Fiat Ducato; Mercedes Vito, V-Class, M-Class, W210 4Matic; Peugeot Boxer, Break; Renault Master etc.

(If necessary, additional jaws can be used!)

The use of special jaws will also enable coil springs mounted to wishbone suspensions to be removed and installed if space conditions allow.

Comes with pairs of jaws in size 1 and 2 designed for spring diameters of from 100-175mm.

Additional jaws for spring-Ø of from 70-210mm are available as accessories.

**Max. load capacity 27,500N \***

\*at the specified 4-times Safety-Factor, the maximum load capacity of the spring compressor is 27,500N!

### THE unique universal telescopic spring compressor

- which, due to a special latching system, allows the jaw openings (distance between jaws) to be adjusted from a minimum distance of **40mm** to a maximum of **361mm**. This is an important feature when it comes to compressing very short springs (2-3 coils) but also very long springs so as to allow all these to be fully de-compressed and/or replaced. (e.g. Audi, BMW, Fiat, Ford, Lancia, Mazda, Mercedes, Renault etc.)
- which features a patented **Bayonet Interlock System with an automatic self-locking mechanism** designed to safely fix the forged jaws to the compressor body (no tools, bolts or locking rings required).
- whose spindle drive remains closed if the safety pin shears off. Thanks to the auxiliary drive, the compressed spring can then be decompressed to enable a new safety pin to be installed.
- which is equipped with an **automatic freewheel** designed to prevent the spindle from overload during the de-compression process once the maximum end of travel has been reached - thus eliminating the risk of damage to the spring compressor.
- which enables **plastic protective inserts**, necessary to protect the coating of the spring, to be screw-connected to the jaws. Important to prevent spring failure/breakage caused by notches and corrosion.
- which is suitable for virtually any MacPherson suspension/damper strut systems, as well as for many other wishbone suspensions - thanks to a wide range of jaws available as accessories.

Thanks to the interaction of special high-precision components and the use of wear-resistant nitrided steel, the compressor base body not only is smooth-running but also highly resistant to wear and tear. To compress a spring having a coil-bound force of approx. 18,000N (for example of a Mercedes M-Class) a torque of only 35Nm is required!

### Examples of maximum spring coil-bound forces:

- VW Polo ca. 6,000N
- Audi A4 ca. 9,000N
- Fiat Ducato ca. 15,000N
- VW Golf ca. 7,000N
- Mercedes Vito ca. 14,200N
- BMW X5 ca. 18,000N
- VW Passat ca. 8,000N
- Peugeot Boxer ca. 15,000N
- MB M Class ca. 18,000N

### Technical Data:

Compressor Base Body		KL-9002-100
L min.	Overall length min.:	475mm
L max.	Overall length max.:	715mm
A	Working Travel (piston stroke):	305mm
SPF	Spindle freewheel at:	735mm
S min. I	Jaw opening min. (I) (distance between jaws):	40mm
S min. II	Jaw opening min. (II) (distance between jaws):	72mm
S max. I	Jaw opening max. (I) (distance between jaws):	328mm
S max. II	Jaw opening max. (II) (distance between jaws):	361mm
	Load capacity max. (at 4-times safety factor):	27,500N
	Breaking point:	110,000N
	Spindle drive:	24mm (waf)
	Weight of compressor base body:	6.9kg
	Weight of compressor base body with jaws size 1 + 2:	13.4kg

**Note:** Additional jaws for spring-Ø of from 70-210 mm are available as accessories.

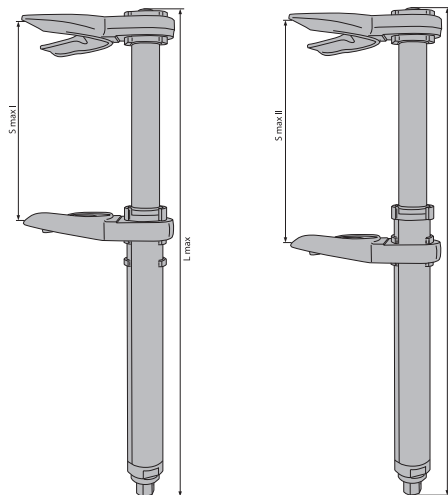
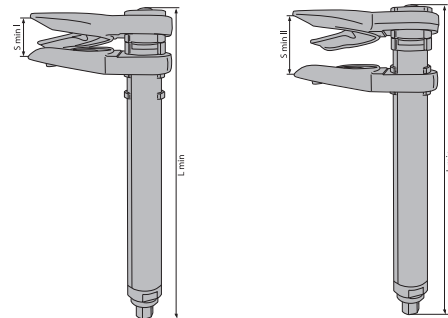
### KL-9002 SP Telescopic Safety Spring Compressor (not shown)

Like the KL-9002, but comes with jaws with protective inserts.



### Advantages:

- Jaw-mounting device with automatic self-locking mechanism
- Adjustable jaw-opening device
- Drive features an additional auxiliary drive
- Automatic freewheel of the spindle
- Also suitable for conical springs
- Plastic protective inserts (available as accessories)



### Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet

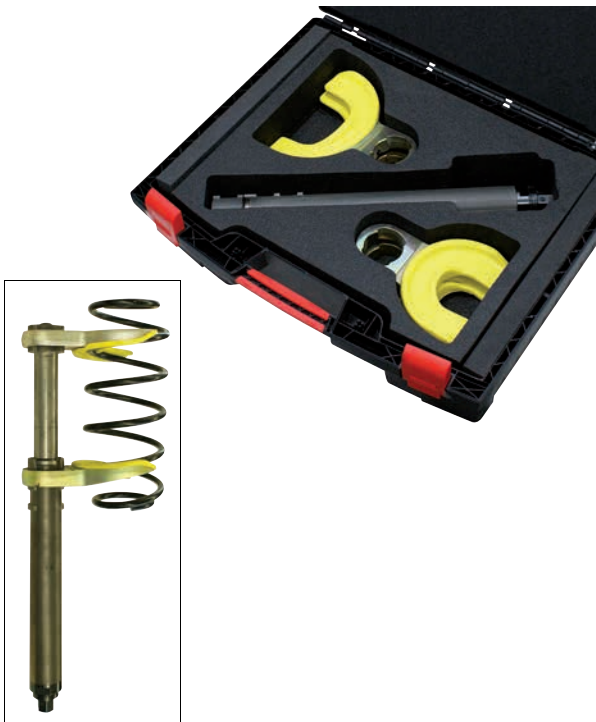


### Scope of Delivery:

#### KL-9002 Telescopic Safety Spring Compressor

Part No.	Description	Qty
KL-9002-100	Compressor Base Body	1
KL-9001-11	Pair of Jaws in size 1	1
KL-9001-12	Pair of Jaws in size 2	1

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## KL-9002 SP K

### Telescopic Safety Spring Compressor, in a Storage Case

Universally suitable for vehicles with MacPherson Struts and Semi-Struts; THE ideal tool for 4x4 vehicles, Transporters and Vans such as Citroën Jumper; Fiat Ducato; Mercedes Vito, V-Class, M-Class, W210 4Matic; Peugeot Boxer, Break; Renault Master etc.

Comes with pairs of jaws with protective inserts in size 1 and 2 designed for spring diameters of from 100-175mm.

Scope of Delivery: KL-9002 SP Telescopic Safety Spring Compressor

Part No.	Description	Qty
KL-9002 SP E	Telescopic Safety Spring Compressor, in a Foam Insert	1
KL-4999-1395	Plastic Storage Case	1

Scope of Delivery: KL-9002 SP E Telescopic Safety Spring Compressor

Part No.	Description	Qty
KL-9002 SP	Telescopic Safety Spring Compressor	1
KL-4999-1322	Foam Insert	1

Scope of Delivery: KL-9002 SP Telescopic Safety Spring Compressor

Part No.	Description	Qty
KL-9002-100	Compressor Base Body	1
KL-9001-11 SP	Pair of Jaws in size 1, with Protective Inserts	1
KL-9001-12 SP	Pair of Jaws in size 2, with Protective Inserts	1



KL-9001-10

**KL-9001-10 SP Pair of jaws size 0 with protective inserts (not shown)**  
Like the KL-9001-10, however with protective inserts included.



KL-9001-11

**KL-9001-11 SP Pair of jaws size 1 with protective inserts (not shown)**  
Like the KL-9001-11, however with protective inserts included.



KL-9001-12

**KL-9001-12 SP Pair of jaws size 2 with protective inserts (not shown)**  
Like the KL-9001-12, however with protective inserts included.



KL-9001-13

**KL-9001-13 SP Pair of jaws size 3 with protective inserts (not shown)**  
Like the KL-9001-13, however with protective inserts included.

## KL-9001-.. Pairs of Jaws

**Universal application.**

Pairs of special jaws with closed attachment ring.

### KL-9001-10

#### Pair of Jaws, Size 0

**Technical Data:**

For spring Ø:	70-125mm
Weight (Pair):	2.5kg

### KL-9001-11

#### Pair of Jaws, Size 1

**Technical Data:**

For spring Ø:	100-163mm
Weight (Pair):	3.1kg

### KL-9001-12

#### Pair of Jaws, Size 2

**Technical Data:**

For spring Ø:	135-175mm
Weight (Pair):	3.3kg

### KL-9001-13

#### Pair of Jaws, Size 3

**Technical Data:**

For spring Ø:	165-210mm
Weight (Pair):	4.3kg

## KL-9001-33 SP

### Pair of Jaws, Size 1B, with Protective Inserts

**Suitable for Audi Q7, Porsche Cayenne, VW Touareg.**

Designed to compress and decompress front springs.

**Technical Data:**

For spring-Ø:	100-163mm
Weight (Pair):	3.4kg



## KL-9001-16

### Pair of Jaws, Size 0, Extended Design

**Suitable for VW Golf V rear axle, Volvo etc.**

These jaws with an extended attachment axle (extended by approximately 30mm) are ideal for springs that are hard to reach. Thanks to the possibility of using an extended jaw in combination with a non-extended jaw, also conical springs can be compressed.

**Technical Data:**

For spring Ø:	70-125mm
Weight (Pair):	3.0kg



**KL-9001-16 SP Pair of jaws in size 0 with protective inserts (not shown)**  
Like the KL-9001-16, but comes with protective inserts.

## KL-9001-17

### Pair of Jaws, Size 1, Extended Design

**Suitable for Nissan Pathfinder, Seat Arosa, VW Lupo, Mercedes etc.**

This pair of jaws with an extended attachment axle (extended by approximately 30mm) is ideal for springs that are hard to reach. Thanks to the possibility to use an extended jaw in conjunction with a non-extended jaw, also conical springs can be compressed.

**Technical Data:**

For spring Ø:	100-163mm
Weight (Pair):	3.7kg



**KL-9001-17 SP Pair of jaws size 1 with protective inserts (not shown)**  
Like the KL-9001-17 however, with protective inserts included.

## KL-9001-18

### Pair of Jaws, Size 2, Extended Design

**Universally suitable.**

This pair of jaws with an extended attachment axle (extended by approximately 30mm) is ideal for springs that are hard to reach. Thanks to the possibility to use an extended jaw in conjunction with a non-extended jaw, also conical springs can be compressed.

**Technical Data:**

For spring Ø:	135-175mm
Weight (Pair):	3.7kg



**KL-9001-18 SP Pair of jaws size 2 with protective inserts (not shown)**  
Like the KL-9001-18 however, with protective inserts included.

## KL-9001-15

### Pair of Jaws, Size 5

**Suitable for Mercedes E-Class (W210 4Matic), Alfa Romeo, Chrysler, Nissan, VW Lupo rear axle, etc.**

Ideal for hard-to-reach springs. Used in conjunction with a non-extended jaw, this tool also enables conical springs to be compressed.

**Technical Data:**

For spring Ø:	70-116mm
Weight (Pair):	3.0kg



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## KL-9001-32 SP

Pair of Jaws, Size 1, with Protective Inserts

**Suitable for Audi A8 (armoured) rear axle.**

Ideal for conical and hard-to-reach springs.

**Technical Data:**

Weight:	3.4kg
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## KL-9001-14

Pair of Jaws, Size 4

**Suitable for Citroën C 15 rear axle and Peugeot 305 Break rear axle.**

**Technical Data:**

Weight (Pair):	3.0kg
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**Scope of Delivery: KL-9001-14 Pair of Jaws Size 4**

Part No.	Description	Qty
KL-9001-1410	Jaw, size 4A	1
KL-9001-1420	Jaw, size 4B	1



**Technical Data:**

For spring Ø:	165mm
Weight:	1.9kg

## KL-9001-1920

Jaw, Size 6

**Suitable for Peugeot 206 (1998 onwards).**

Special jaw with an open jaw ring.



**Technical Data:**

For spring Ø:	165mm
Weight:	2.8kg

## KL-9001-1900

Ring Jaw

**Suitable for BMW E46 (3 Series) and BMW E39 (5 Series).**

Designed to compress and decompress front springs.



**Technical Data:**

Clearance-Ø:	139mm
Inner Ø:	160mm

## KL-9001-1910

Adaptor Ring, BMW E46

**Suitable for BMW E46 (3 Series 1998 onwards), E39 (5 Series 1995 onwards) front spring.**

Spacer ring for ring jaw **KL-1571**.



## KL-9001-310

Ring Jaw with Adaptor Ring, Mercedes W203

**Suitable for Mercedes C-Class (W203).**

Designed to compress and decompress front springs.

**Scope of Delivery: KL-9001-310 Ring Jaw with Adaptor Ring**

Part No.	Description	Qty
KL-9001-3100	Ring Jaw, Mercedes W203	1
KL-9001-3110	Adaptor Ring, Mercedes W203	1

## KL-9001-20

Pair of Protective Inserts, Size 0,  
with Grooved Nails

**Matching the pair of jaws KL-9001-10.**  
8 grooved nails **KL-9001-2002** included.



## KL-9001-21

Pair of Protective Inserts, Size 1,  
with Grooved Nails

**Matching the pair of jaws KL-9001-11.**  
8 grooved nails **KL-9001-2002** included.



## KL-9001-22

Pair of Protective Inserts, Size 2,  
with Grooved Nails

**Matching the pair of jaws KL-9001-12.**  
8 grooved nails **KL-9001-2002** included.



## KL-9001-23

Pair of Protective Inserts, Size 3,  
with Grooved Nails

**Matching the pair of jaws KL-9001-13.**  
8 grooved nails **KL-9001-2002** included.



## KL-9001-91

Jaw Set for BMW

**Suitable for BMW E46 (3 Series 1998 onwards), E39 (5 Series 1995 onwards), E87 (1 Series 2004 onwards).**

Designed to compress and decompress front springs.

**Scope of Delivery: KL-9001-91 Jaw Set for BMW**

Part-No.	Description	Qty
KL-9001-1900	Ring Jaw	1
KL-9001-1910	Adaptor Ring, BMW E46	1
KL-9001-1310 SP	Jaw, Size 3, with Protective Insert	1



## KL-9001-94

Jaw Set for BMW E87 / E90

**Suitable for BMW E87 and E90.**

Designed to compress and decompress front springs.

**Scope of Delivery: KL-9001-94 Jaw Set for BMW E87 / E90**

Part No.	Description	Qty
KL-9001-1900	Ring Jaw	1
KL-1579	Adaptor Ring, BMW E90, for Ring Jaw	1
KL-9001-1700 SP	Jaw, Size 1, Extended Design with Protective Insert	1





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## KL-9001-93 A Jaw Set, Mercedes W211, W230

**Suitable for Mercedes E-Class (W211) and SL (W230) front axle.**

Designed to compress and decompress front springs.

**Scope of Delivery:**

**KL-9001-93 A Jaw Set Mercedes W211, W230**

Part No.	Description	Qty
KL-9001-1600 SP	Jaw, Size 0, Extended Design, with Protective Insert	1
KL-9001-312 A	Ring Jaw with Adaptor Ring	1



## KL-9001-312 A Ring Jaw with Adaptor Ring, Mercedes W211/W230

**Suitable for Mercedes E-Class (W211) and SL (W230) front axle.**

Designed to compress and decompress front springs.

**Scope of Delivery:**

**KL-9001-312 A Ring Jaw with Adaptor Ring, Mercedes W211/W230**

Part No.	Description	Qty
KL-9001-1900	Ring Jaw	1
KL-9001-3121 A	Adaptor Ring MB W211/W230, without Screws	1
KL-9001-3112	Countersunk Screw M6x10mm	3



## KL-9001-313 Jaw Set, Mercedes

**Suitable for Mercedes C-Class (W204) and GLK (X204).**

Designed to compress and decompress front springs.

**Scope of Delivery:**

**KL-9001-313 Jaw Set Mercedes**

Part No.	Description	Qty
KL-9001-3134	Ring Jaw, with Clamping Device	1
KL-9001-3131	Adaptor Ring, Mercedes W204	1
KL-9001-3132	Adaptor Ring, Mercedes X204	1
KL-9001-1810	Jaw, Size 2A, Extended Design	1
KL-9001-2201	Protective Insert, Size 2	1



## KL-9001-92 Jaw Set for Mercedes

**Suitable for Mercedes C-Class (W203), CLK (W209).**

Designed to compress and decompress front springs.

**Scope of Delivery:**

**KL-9001-92 Jaw Set for Mercedes**

Part No.	Description	Qty
KL-9001-3100	Ring Jaw	1
KL-9001-3110	Adaptor Ring, Mercedes W203	1
KL-9001-1810 SP	Jaw, Size 2A, Extended Design, with Protective Insert	1

## KL-9001-314 Jaw Set, Mercedes

Suitable for Mercedes E-Class (W212).

Designed to compress and decompress front springs.

**Scope of Delivery:**

**KL-9001-314 Jaw Set Mercedes**

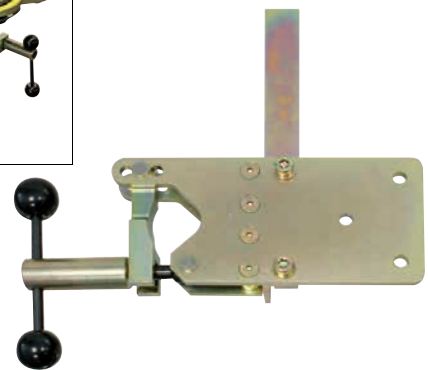
Part No.	Description	Qty
KL-9001-3100	Ring Jaw	1
KL-9001-3140	Adaptor Ring, Mercedes W212	1
KL-9001-1810 SP	Jaw, Size 2A, Extended Design with Protective Insert	1



## KL-0055-60 Holding Fixture for Suspension Struts

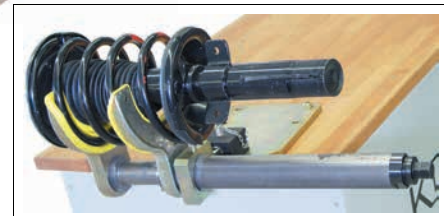
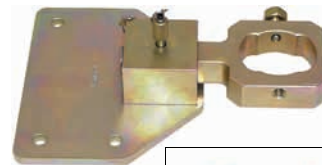
Suitable for MacPherson suspension struts, shock-absorbers and steering systems.

This holding fixture can either be screw-fitted to a workbench or clamped into a vice, thus enabling quick, safe and professional repairs to be carried out. Strut axles should NOT be clamped directly into a vice for assembly work (risk of deformation).



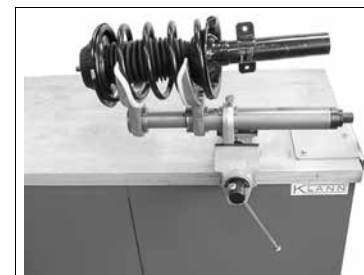
## KL-9055-1 Holding Fixture

Holding fixture specifically designed for the spring compressors **KL-9002** and **KL-9001**. The holder can rotate through 360° thus allowing struts to be clamped horizontally as well as vertically.



## KL-9055-2 Holding Fixture

Holding fixture specifically designed for the spring compressors **KL-9002** and **KL-9001**.



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KL-0015

Universal Spring Compressor

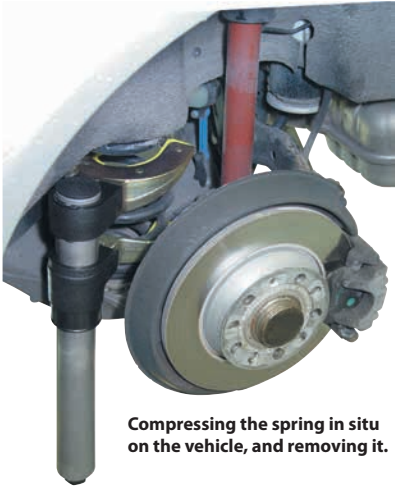
- ☑ Universally suitable, for example, for MacPherson strut/semi-strut designs.
- ☑ Preferred tool of the world's leading car manufacturers.
- ☑ Self-Locking-Mechanism of the mobile jaw-mount, ensures spindle is pressure-free whilst compressing the spring.
- ☑ All components are available as spare parts.
- ☑ Hardened cylinder tube.
- ☑ High-quality product made in Germany.
- ☑ Maximum Load Capacity 17,500N.
- ☑ A wide range of jaws for various applications is available on demand.
- ☑ Also suitable for compressing conical and barrel springs by using the adaptor KL-1590-1.
- ☑ Interchangeable plastic protective inserts to prevent damage to the spring surface are available on demand.



KL-0015

Universal Spring Compressor

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Compressing the spring in situ on the vehicle, and removing it.

Compressing the spring via the upper spring plate.



Compressing the spring via the upper spring plate.



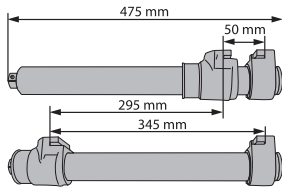
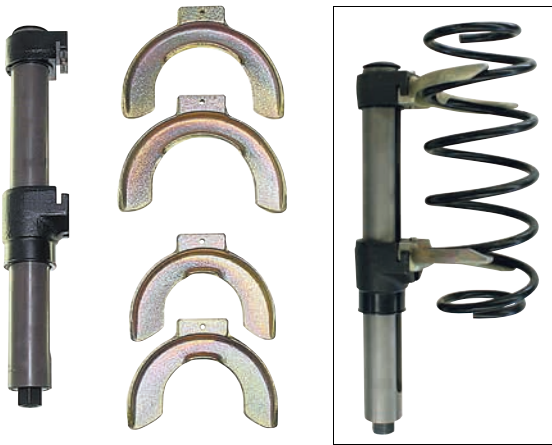
Compressing and decompressing conical springs in conjunction with KL-1590-1.



Changing a shock absorber and adjusting the upper spring plate in conjunction with KL-0255 and KL-0255-10.



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## KL-0015

(Universal)

### Spring Compressor

Universally suitable for strut suspensions. Comes with pairs of jaws size 1N and 2N for spring Ø of from 80-195mm.

**Advantages:**

- Self-locking mechanism of the sliding jaw mount.
- Also applicable to conical springs.
- Plastic protective inserts (available as accessory).

**Technical Data:**

Span width (distance between jaws):	min. 50mm / max. 345mm
Working travel:	295mm
Overall length:	475mm
Drive:	27mm
Maximum load:	17,500N
Breaking point:	70,000N

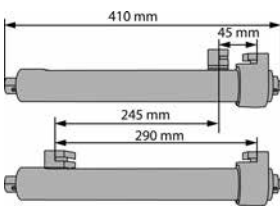
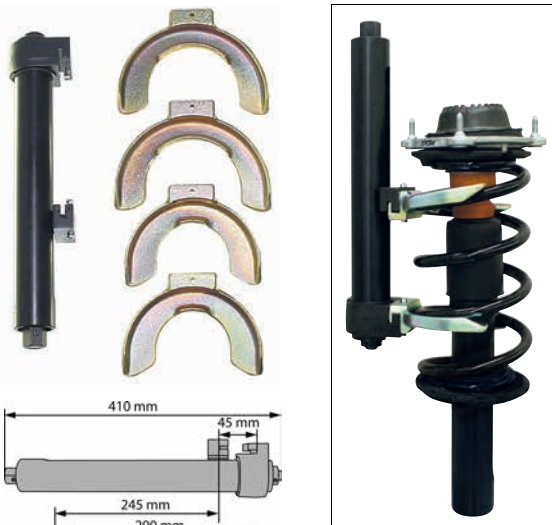
**Note:** Additional jaws for spring Ø of from 70-240mm are available as accessories.

**Scope of Delivery: KL-0015 Spring Compressor**

Part No.	Description	Qty
KL-0015-100	Compressor Base Body	1
KL-1510	Pair of Jaws, Size 1N	1
KL-1520	Pair of Jaws, Size 2N	1

**KL-0015 SP Spring Compressor** (not shown)

Like the **KL-0015** however, with pairs of jaws with protective inserts.



## KL-2000

(Universal)

### Spring Compressor

Suitable for McPherson-type suspension struts. Comes with jaws in size 1N and 2N.

The **KL-2000** spring compressor comes with the pairs of jaws **KL-1510** (size 1N) and **KL-1520** (size 2N), thus allowing the user to professionally remove/install right-hand wound coil springs (with a spring-Ø of 70-240mm\*) and shock absorbers on passenger car chassis systems.

\* in conjunction with jaws available as accessories.

**Advantages:**

- Load guided in cylinder tube.
- Hardened cylinder tube.

**Technical Data:**

Jaw opening:	45-290mm
Working travel:	245mm
Overall length:	410mm
Drive:	reversible ratchet
Max. load:	8,500N
Breaking point:	32,000N
Weight:	8.6kg

**Scope of Delivery: KL-2000 Spring Compressor**

Part No.	Description	Qty
KL-2000-100	Base Body	1
KL-1510	Pair of Jaws, Size 1N	1
KL-1520	Pair of Jaws, Size 2N	1

**KL-2000 SP Spring Compressor** (not shown)

Like the **KL-2000**, but supplied with pairs of jaws with protective inserts.

**Accessories (on demand):**

**1993 U-20** CODE:1436686 - Reversible ratchet



**KL-1502-SP** Pair of jaws size Gr. 0C with protective inserts  
Like the **KL-1502**, however, supplied with plastic protective inserts.

## KL-1502

### Pair of Jaws, Size 0C

Universally suitable.

The jaws are designed to be used in conjunction with the spring compressors **KL-0015**, **KL-0013**, **KL-0014** and **KL-2000**.

**Technical Data:**

For spring-Ø:	70-110mm
Weight (Pair):	1.1kg

## KL-1510

### Pair of Jaws, Size 1N

**Universal application.**

These jaws are designed to be used in conjunction with the spring compressors **KL-0015, KL-0013, KL-0014 and KL-2000.**

**Technical Data:**

For spring Ø:	80-165mm
Weight (Pair):	1.9kg



**KL-1510-SP Pair of jaws size 1N with protective inserts**  
Like the **KL-1510**, however, supplied with plastic protective inserts.

## KL-1520

### Pair of Jaws, Size 2N

**Universal application.**

The jaws are designed to be used in conjunction with the spring compressors **KL-0015, KL-0013, KL-0014 and KL-2000.**

**Technical Data:**

For spring Ø:	155-195mm
Weight (Pair):	1.9kg



**KL-1520-SP Pair of jaws Size 2N with protective inserts**  
Like the **KL-1520**, however, supplied with plastic protective inserts.

## KL-1530

### Pair of Jaws, Size 3N

**Universal application.**

The jaws are designed to be used in conjunction with the spring compressors **KL-0015, KL-0013, KL-0014 and KL-2000.**

**Technical Data:**

For spring Ø:	180-240mm
Weight (Pair):	3.0kg



## KL-1525-SP

### Jaw with Protective Insert, Size 2B

**Applicable to BMW 3 Series E46, BMW 5 Series E39.**

The jaw is designed to be used in conjunction with the spring compressors **KL-0015, KL-0013, KL-0014 and KL-2000.**

**Technical Data:**

For spring Ø:	155-195mm
Weight (Piece):	0.9kg



## KL-1512

### Pair of Jaws, Size 1A

**Applicable to Audi A4 front axle, Audi A8 rear axle, Porsche, Saab 90/900, Chrysler, Opel/Vauxhall etc.**

The jaws are designed to be used in conjunction with the spring compressors **KL-0015, KL-0013, KL-0014 and KL-2000.**

**Technical Data:**

For spring Ø:	80-150mm
Gewicht (Paar):	1.9kg



**KL-1512-SP Pair of jaws Size 1A with protective inserts**  
Like the **KL-1512**; however, supplied with plastic protective inserts.

1



**KL-1514-SP Pair of jaws Size 1B with protective inserts**  
Like the **KL-1514**; however, supplied with plastic protective inserts.

## KL-1514

### Pair of Jaws, Size 1B

**Suitable for Audi A8 front axle.**

The jaws are designed to be used with the spring compressors **KL-0015**, **KL-0013**, **KL-0014** and **KL-2000**.

**Technical Data:**

For spring Ø:	85-150mm
Weight (Pair):	2.0kg



## KL-1516-SP

### Pair of Jaws with Protective Inserts, Size 1C

**Suitable for Audi A4 (model 2001 onwards) rear axle wishbone.**

These jaws allow the removal and installation of rear axle springs to be performed within just a few minutes without having to loosen the wishbone or lower the axle. This technique eliminates the need for performing a wheel alignment after springs have been removed/installed.

**Technical Data:**

For spring Ø:	80-150mm
Weight:	1.9kg



## KL-1518-SP

### Pair of Jaws with Protective Inserts, Size 1D

**Suitable for Volvo XC 90 (model 2015 onwards), front axle.**

The jaws are designed to be used in conjunction with the **KL-0013**, **KL-0014**, **KL-0015** and **KL-2000** spring compressors.

**Technical Data:**

For spring Ø:	85-110mm
Weight:	1.9kg



## KL-1550

### Pair of Jaws, Size 5

**Suitable for Citroën C 15 rear axle, Peugeot 305 Break rear axle.**

The jaws are designed to be used with the spring compressors **KL-0015**, **KL-0013**, **KL-0014** and **KL-2000**.

**Technical Data:**

Weight (Pair):	2.3kg
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**Scope of Delivery: KL-1550 Pair of Jaws Size 5**

Part No.	Description	Qty
KL-1551	Jaw, Size 5A	1
KL-1553	Jaw, Size 5B	1



## KL-1561

### Jaw, Size 6

**Suitable for Ford Probe, Mazda 323, 626, MX6, Mitsubishi-Galant with electronically-pneumatically controlled strut, Peugeot 206.**

The jaw is designed to be used with the spring compressors **KL-0015**, **KL-0013**, **KL-0014** and **KL-2000**.

**Technical Data:**

Special recess:	110mm
Inner Ø:	180mm
Weight (Piece):	1.3kg

## KL-1571

### Ring Jaw, BMW 8 Series

Suitable for BMW 8 Series E31 and, if used in conjunction with the adaptor ring KL-9001-1910, also suitable for BMW 3 Series E46 (models 1998 onwards), BMW 5 Series E39 (models 1995 onwards).

The jaw is designed to be used with the spring compressors KL-0015, KL-0013, KL-0014 and KL-2000.

**Technical Data:**

Recess-Ø:	139mm
Inner-Ø:	165mm
Weight (Piece):	2.3kg



## KL-1581-R

### Ring Jaw for Renault

Suitable for Renault Laguna and Safrane, Hyundai, and in conjunction with jaw size 3 also for Lancia Gamma.

The jaw is designed to be used with the spring compressors KL-0015, KL-0013, KL-0014 and KL-2000.

**Technical Data:**

Special recess:	162mm
Inner-Ø:	238mm
Weight (Piece):	2.5kg



## KL-1502-S

### Pair of Protective Inserts Size OC

Designed to be used with the pair of jaws KL-1502.

6 grooved nails KL-9001-2002 included.



## KL-1512-S

### Pair of Protective Inserts, Size 1A

Suitable for the pair of jaws KL-1512.



## KL-1514-S

### Pair of Protective Inserts, Size 1B

Suitable for the pair of jaws KL-1514.



## KL-1510-S

### Pair of Protective Inserts, Size 1N

Suitable for the pair of jaws KL-1510.



## KL-1520-S

### Pair of Protective Inserts Size 2N

Suitable for the pair of jaws KL-1520.



## KL-1521-S

### Protective Insert, Size 2N

Suitable for the jaw KL-1525.





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## KL-1540

### Jaw Set, (4-piece set), Size 4

**Suitable for VW Golf, Bora vehicles equipped with 4-wheel drive (4 Motion).**

These specially shaped jaws are indispensable for the removal and installation of rear axle suspension coil springs.

**Advantages:**

- No need to lower the rear axle.
- No need for an additional wheel alignment.
- No need to loosen the shock absorber and drive shaft.

**Scope of Delivery: KL-1540 Set of Jaws (4 pieces) Size 4**

Part No.	Description	Qty
KL-1541	Jaw, Size 4, bottom left	1
KL-1543	Jaw, Size 4, top left	1
KL-1545	Jaw, Size 4, bottom right	1
KL-1547	Jaw, Size 4, top right	1



## KL-1570-1

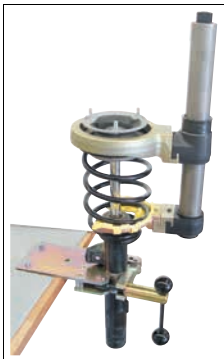
### Jaw Set, BMW

**Suitable for BMW E46 (3-Series 1998 onwards), E39 (5-Series 1995 onwards).**

The **KL-1570-1** jaw set is designed to compress front springs. Set is used in conjunction with ring jaw **KL-1571**.

**Scope of Delivery: KL-1570-1 Jaw Set, BMW**

Part No.	Description	Spring-Ø
KL-1525	Jaw, Size 2B	155-195mm
KL-1521-S	Protective Insert, Size 2N	155-195mm
KL-1575	Adaptor Ring, BMW E46	160mm



## KL-1579-2

### Jaw Set, BMW E90

**Suitable for BMW E87 / E90 / E91 / E92 / E93, front axle.**

For removing and installing front axle coil springs.

**Scope of Delivery: KL-1579-2 Jaw Set, BMW E90**

Part No	Description
KL-1511-SP	Jaw with protective insert size 1N
KL-1590-1	Adaptor for conical springs
KL-1579-1	Ring jaw with adaptor ring BMW E90 (Consists of ring jaw KL-1571 and adaptor ring KL-1579)

## KL-1579-1

### Ring Jaw with Adaptor Ring BMW E90

**Suitable for BMW E90 / E91 / E92 / E93, front axle.**

Designed to remove and install front springs. Used in conjunction with spring compressor **KL-0015**.

**Technical Data:**

Recess-Ø:	139mm
Inner-Ø:	165mm

**Scope of Delivery: KL-1579-1 Ring Jaw with Adaptor Ring BMW E90**

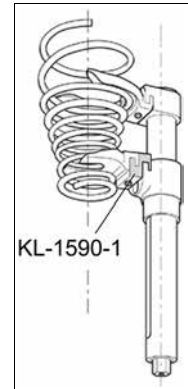
Part No.	Description	Qty
KL-1571	Ring Jaw, BMW 8-Series	1
KL-1579	Adaptor Ring BMW E90	1



## KL-1590-1 Adaptor for Conical Springs

Suitable for Alfa Romeo, Chrysler, Nissan, Seat Arosa, VW Lupo etc.

Used to extend jaws for distance compensation.



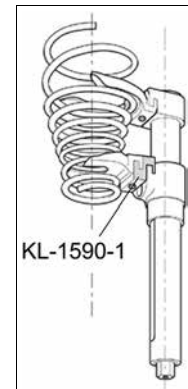
## KL-1590-2 Adaptor Set

Used to extend the jaws, for example, when compressing the rear axle spring on VW Lupo, or barrel springs. (consists of 2 x KL-1590-1).

Scope of Delivery:

KL-1590-2 Adaptor Set

Part No.	Description	Qty
KL-1590-1	Adaptor for Conical Springs	2



## KL-0055-50 Holding Fixture for Suspension Struts

Suitable for MacPherson suspension struts, shock-absorbers and steering systems.

The holding fixture is screwed into position on the workbench thus enabling a quick, safe and professional repair to be carried out.

Strut axles should NOT be clamped into a vice for assembly work (risk of deformation).

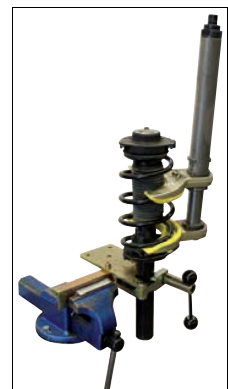
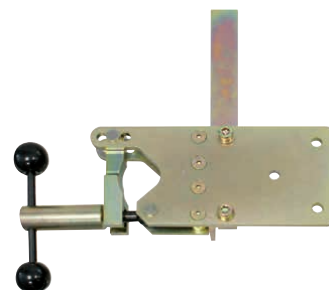


## KL-0055-60 Holding Fixture for Suspension Struts

Suitable for MacPherson suspension struts, shock-absorbers and steering systems.

This holding fixture can either be screw-fitted to a workbench or clamped into a vice, thus enabling quick, safe and professional repairs to be carried out.

Strut axles should NOT be clamped directly into a vice for assembly work (risk of deformation).



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## KL-0025-1 K

(Patented)

### Spring Compressor, with Pressure Plates in Size 1 + 2, in a Storage Case

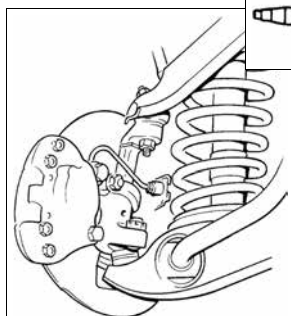
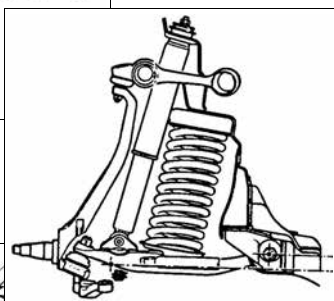
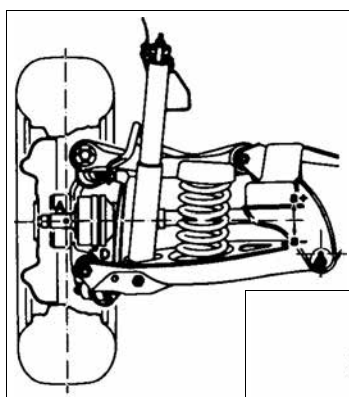
**For wishbone and multi-link independent suspensions; comes with pairs of pressure plates in size 1 and 2. Suitable for Mercedes 190 (W201), C-Class (W202), CLK (W208), E-Class (W210), S-Class (W140), SL (R129), SLK (R170), W116, W123, W124, and W126 front and rear axle. Ford, GM, Chrysler, VW T2 and LT, Fiat, Hummer, Mazda, Toyota, Nissan, Mitsubishi, Renault, Peugeot, Volvo, etc.**

This universal telescopic safety spring compressor equipped with a 3-point safety interlock mechanism, an anti-rotation profile to prevent pressure plate distortion, and a spindle overload protection is unrivalled in its class.

It enables the user to quickly and safely remove and install coil springs on wishbone and multi-link independent suspensions without having to dismantle the axle (exceptions possible). This provides the user with a high level of safety and, at the same time, a substantial job time saving of 1-2 hours.

#### Advantages:

- The 3-point safety interlock mechanism enables the compression of a spring only when the piston has been locked correctly in the pressure plate. Thus, the risk of accidents due to wrong interlocking are eliminated.
- The automatic freewheel ensures that the spindle is freewheeling once the maximum opening width has been reached, thus preventing any pressure on the limits stops of the spring compressor.
- All critical components such as pressure plates, piston, intermediate tube, and housing are interlocked to one another. This safety feature eliminates the risk of a compressed spring unwinding itself.
- All critical components are drop-forged and highly annealed.
- The spring compressor has been tested and approved by the German BG (German Employer's Liability Insurance Association) and by Mercedes.
- Due to its special telescopic design, the length of the tool changes while compressing a spring. This feature very often enables coil springs to be replaced without the need to dismantle the axle. Time savings of between 1/2 and 2 hours per spring can so be achieved.
- Universal field of application thanks to a wide range of pressure plates available as accessories.



#### Technical Data:

Max. load:	30,000N
Span width (Jaw opening):	110-317mm
Working travel:	207mm
Overall length:	263mm
Drive:	19mm (waf) hex
Breaking point:	120,000N
Weight:	1.5kg

#### Scope of Delivery: KL-0025-1 K Spring Compressor, with Pressure Plates in Size 1+2

Part no.	Description	Qty
KL-0025-100	Base body (long design)	1
KL-0025-11	Pair of pressure plates size 1	1
KL-0025-12	Pair of pressure plates size 2	1
KL-0025-2090	Plastic storage case	1

## KL-0025-1

(Patented)

### Spring Compressor, with Pressure Plates in Size 1+2

#### Scope of Delivery: KL-0025-1 Spring Compressor, with Pressure Plates in Size 1+2

Part no.	Description	Qty
KL-0025-100	Compressor Base Body (long design)	1
KL-0025-11	Pressure Plates, Size 1	1
KL-0025-12	Pressure Plates, Size 2	1



#### Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



## KL-0021 K (Patented) Spring Compressor, in a Storage Case

For wishbone and multi-link independent suspensions. Supplied with pairs of pressure plates in size 1 and 2. Fits Mercedes 190 (W201), C-Class (W202), CLK (W208), E-Class (W210), S-Class (W140), SL (R129), SLK (R170), W116, W123, W124, and W126 front and rear axle. Ford, GM, Chrysler, VW T2 and LT, Fiat, Hummer, Mazda, Toyota, Nissan, Mitsubishi, Renault, Peugeot, Volvo, etc.

This universal telescopic safety spring compressor featuring a 3-Point Interlock Mechanism and an anti-rotation profile designed to prevent pressure plate distortion, enables the quick and safe removal and installation of coil springs on wishbone and multi-link independent suspensions without the need for dismantling the axle (exceptions are possible). This provides the user with a high level of safety as well as job time savings of 1-2 hours.

### Advantages:

- 3-Point Safety Interlock Mechanism
- Automatic freewheel
- Anti-rotation profile

### Scope of Delivery: KL-0021 K Spring Compressor, in a Storage Case

Part No.	Description	Qty
KL-0021	Spring Compressor	1
KL-0025-2090	Plastic Storage Case	1

### Scope of Delivery: KL-0021 Spring Compressor

Part no.	Description	Qty
KL-0021-100	Compressor Base Body	1
KL-0025-1101	Pressure Plate with Lock, Size 1	1
KL-0025-1102	Pressure Plate with Anti-Rotation Profile, Size 1	1
KL-0025-1201	Pressure Plate with Lock, Size 2	1
KL-0025-1202	Pressure Plate with Anti-Rotation Profile, Size 2	1

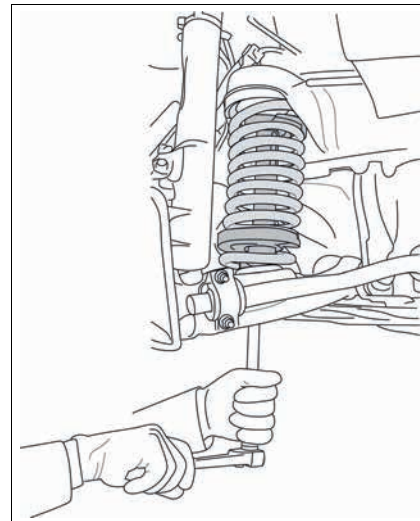
### Technical Data:

Max. load capacity:	30,000N
Span width (Jaw opening):	110-317mm
Working travel:	207mm
Overall length:	262.5mm
Drive:	Size (waf) 19mm hex
Breaking point:	120,000N
Weight:	1.5kg

Accessories: KL-0025-16 Pair of Pressure Plates  
Suitable for Mercedes W211 (E-Class) rear axle.



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## KL-0021-2 K (Patented) Spring Compressor, in a Storage Case for MODULO

For field of application, please refer to KL-0021 K.

### Scope of Delivery: KL-0021-2 K Spring Compressor, in a Storage Case

Part No.	Description	Qty
KL-0021 E	Spring Compressor, in a Foam Insert	1
KL-4999-1396	Plastic Storage Case for MODULO	1

### Scope of Delivery: KL-0021 E Spring Compressor, in a Foam Insert

Part No.	Description	Qty
KL-0021	Spring Compressor	1
KL-4999-1323	Foam Insert	1

### Scope of Delivery: KL-0021 Spring Compressor

Part no.	Description	Qty
KL-0021-100	Compressor Base Body	1
KL-0025-1101	Pressure Plate with Lock, Size 1	1
KL-0025-1102	Pressure Plate with Anti-Rotation Profile, Size 1	1
KL-0025-1201	Pressure Plate with Lock, Size 2	1
KL-0025-1202	Pressure Plate with Anti-Rotation Profile, Size 2	1



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## KL-0025-2

(Patented)

### Spring Compressor (Short Design) with Pressure Plates in Size 1 + 2

Suitable for Chrysler, Mercedes C-Class (W202), CLK (W208), E-Class (W210, W211), S-Class (W140), SL (R107, R129, R170), W114, W115, W116, W123, W124, W126 and W201 rear axle springs. Also applicable to BMW 1 Series (E87) and 3 Series (E90) if used with the pair of pressure plates KL-0025-16.

Allows the removal of rear axle springs in very confined spaces without having to lower the rear sub-frame.

#### Advantages:

- Automatic 3-point safety interlock mechanism
- Automatic freewheel at end of stroke
- Anti-rotation profile
- Spindle overload protection

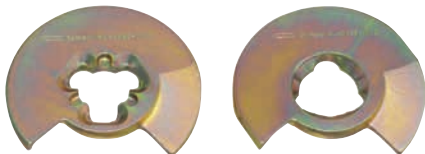
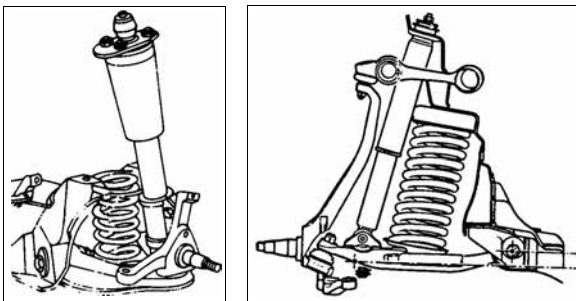
#### Technical Data:

Max. load capacity:	30,000N
Span width (Jaw opening):	110-287mm
Working travel:	177mm
Overall length:	233mm
Drive:	Size (waf) 19mm hex
Breaking point:	120,000N
Weight:	1.3kg

#### Scope of Delivery:

KL-0025-2 Spring Compressor (Short Design) with Pressure Plates in Size 1 + 2

Part no.	Description	Qty
KL-0025-200	Compressor Base Body (short design)	1
KL-0025-11	Pair of Pressure Plates, Size 1	1
KL-0025-12	Pair of Pressure Plates, Size 2	1



## KL-0025-11

### Pair of Pressure Plates, Size 1

Suitable for Mercedes 190 (W201), C-Class (W202), SL (R129), W116, W123, W124, front spring; 190 (W201), C-Class (W202), SL (R129), W124; 4-Matic rear spring; Saab; Skoda; Ford; etc.

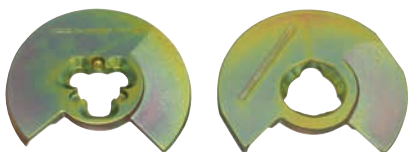
With anti-rotation profile to prevent the pressure plates from twisting - locks the pressure plates and prevents them from twisting during the compression process or when in a stressed position, thus eliminating the risk of a compressed spring unwinding itself out of the spring compressor.

#### Technical Data:

Compression range:	Spring Ø: 95-120mm; incline to: 240° = 6mm
Weight:	1.3kg

#### Scope of Delivery: KL-0025-11 Pair of Pressure Plates, Size 1

Part No.	Description	Qty
KL-0025-1101	Pressure Plate with Interlock Mechanism, Size 1	1
KL-0025-1102	Pressure Plate with Anti-Rotation Profile, Size 1	1



## KL-0025-12

### Pair of Pressure Plates, Size 2

Suitable for Mercedes S-Class (W140) and W126 front spring, S-Class (W140), SL (R107), W114, W115, W116, W123 und W126 rear spring; Opel/Vauxhall; GM; Lada; Peugeot; Rover; Hyundai; Saab; Volvo; VW T2; Ford Taunus; Mitsubishi; etc.

With anti-rotation profile to prevent the pressure plates from twisting - locks the pressure plates and prevents them from twisting during the compression process or when in a stressed position, thus eliminating the risk of a compressed spring unwinding itself out of the spring compressor.

#### Technical Data:

Compression range:	Spring Ø: 20-140mm; incline to: 240° = 6mm
Weight:	1.8kg

#### Scope of Delivery: KL-0025-12 Pair of Pressure Plates, Size 2

Part No.	Description	Qty
KL-0025-1201	Pressure Plate with Interlock Mechanism, Size 2	1
KL-0025-1202	Pressure Plate with Anti-Rotation Profile, Size 2	1

## KL-0025-13

### Pair of Pressure Plates, Size 3

**Universal application.**

With anti-rotation profile to prevent the pressure plates from twisting - locks the pressure plates and prevents them from twisting during the compression process or when in a stressed position, thus eliminating the risk of a compressed spring unwinding itself out of the spring compressor.

**Technical Data:**

Compression range:	Spring Ø: 100-155mm; incline to: 240° = 20mm
Weight:	2.1kg



**Scope of Delivery: KL-0025-13 Pair of Pressure Plates, Size 3**

Part No.	Description	Qty
KL-0025-1301	Pressure Plate, Size 3, with Interlock Mechanism	1
KL-0025-1302	Pressure Plate, Size 3, with Anti-Rotation Profile	1

## KL-0025-14

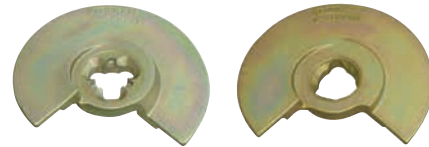
### Pair of Pressure Plates, Size 4

**Universal application.**

With anti-rotation profile to prevent the pressure plates from twisting - locks the pressure plates and prevents them from twisting during the compression process or when in a stressed position, thus eliminating the risk of a compressed spring unwinding itself out of the spring compressor.

**Technical Data:**

Compression range:	Spring Ø: 155-190mm; incline to: 180° = 25/15mm
Weight:	2.3kg



**Scope of Delivery: KL-0025-14 Pair of Pressure Plates, Size 4**

Part No.	Description	Qty
KL-0025-1401	Pressure Plate, Size 4, with Interlock Mechanism	1
KL-0025-1402	Pressure Plate, Size 4, with Anti-Rotation Profile	1

## KL-0025-15

### Pair of Pressure Plates, Size 5

**Suitable for Mercedes W124 4-Matic front axle.**

With anti-rotation profile to prevent the pressure plates from twisting - locks the pressure plates and prevents them from twisting during the compression process or when in a stressed position, thus eliminating the risk of a compressed spring unwinding itself out of the spring compressor.

**Technical Data:**

Compression range:	Spring Ø: 110-130mm; incline to: 270°=5mm
Weight:	1.8kg



**Scope of Delivery: KL-0025-15 Pair of Pressure Plates, Size 5**

Part No.	Description	Qty
KL-0025-1501	Pressure Plate, Size 5, with Interlock Mechanism	1
KL-0025-1502	Pressure Plate, size 5, with Anti-Rotation Profile	1

## KL-0025-16

### Pair of Pressure Plates, Size 0A

**Suitable for Mercedes rear spring, for example: C-Class (W203 / W204), CLK (W209); E-Class (W211 4-matic / W212); BMW 1 Series (E87) and 3 Series (E90) rear axle.**

With anti-rotation profile to prevent the pressure plates from twisting - locks the pressure plates and prevents them from twisting during the compression process or when in a stressed position, thus eliminating the risk of a compressed spring unwinding itself out of the spring compressor.

**Technical Data:**

Compression range:	Spring Ø: 95-110mm; incline to: 240° = 6mm
Weight:	1.1kg



**Scope of Delivery: KL-0025-16 Pair of Pressure Plates, Size 0A**

Part No.	Description	Qty
KL-0025-1601	Pressure Plate, Size 0A, with Interlock Mechanism	1
KL-0025-1602	Pressure Plate, Size 0A, with Anti-Rotation Profile	1

## KL-0025-17

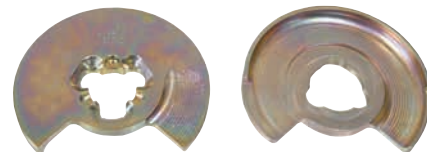
### Pair of Pressure Plates, M-Class

**Suitable for Mercedes rear axle M-Class (W164).**

With anti-rotation profile to prevent the pressure plates from twisting - locks the pressure plates and prevents them from twisting during the compression process or when in a stressed position, thus eliminating the risk of a compressed spring unwinding itself out of the spring compressor.

**Technical Data:**

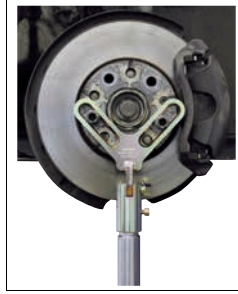
Compression range:	Spring Ø: 110-13 mm; incline to: 270° = 7mm
Weight:	1.9kg



**Scope of Delivery: KL-0025-17 Pair of Pressure Plates, M-Class**

Part No.	Description	Qty
KL-0025-1701	Pressure Plate, Size 1.5, with Interlock Mechanism	1
KL-0025-1702	Pressure Plate, Size 1.5, with Anti-Rotation Profile	1

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## KL-0145-120 A

### Supporting Device for Control Arm

**Universal application.**

The device is used in conjunction with a transmission jack for supporting control arms. The support takes place via the wheel hub, thus, ensuring the correct raising and lowering of control arms/axles to specified positions. An indispensable tool when removing and installing a suspension strut.



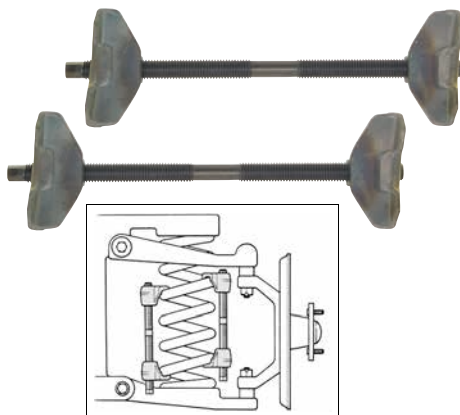
## KL-0040-2588

### Adaptor Sleeve, VW, Ø 36mm

This adaptor is needed to use the retaining devices **KL-0040-258 A** and **KL-0040-288**, and the **KL-0145-120** supporting device in conjunction with the VW transmission jacks having a retaining Ø of 36mm.

**Technical Data:**

Pin Ø:	30mm
Retaining Ø:	36mm



## KL-0005

[Universal]

### Spring Compressor

**Universally suitable for use on springs in which the spring pressure does not exceed 8,000N.**

The spindles feature contra-rotating threads which eliminate the risk of slipping. (Not suitable for use on Mercedes springs.)

**Note:** Two-part spring compressors without a safety loop are not authorized for use in workshops.

**Technical Data:**

Max. load.:	8,000N
Span width (Jaw opening):	65-320mm

**Accessories:**

**KL-0005-1** Pair of spindles for level-lift suspensions (not shown)



## KL-0006-2

[Universal]

### Spring Compressor

Allows compressing the spring in-situ on the vehicle, so that the strut can be removed without dismantling the steering knuckle/ stub axle. This is important on the front axle of **VW** vehicles and on the rear axle of **Ford Mondeo**, etc.

**Especially suitable for:**

- Suspension strut mount replacement, e.g. **VW Golf (IV)**. Thanks to the spring compressor **KL-0006-2**, the suspension strut mount bearing can be replaced in situ on the vehicle within a few minutes without having to remove and re-install the suspension strut. Expenditure of time about 15 minutes; Time savings about 1 hour.
- Spring and shock absorber unit removal and installation, e.g. **VW Golf (IV)**. By using the spring compressor **KL-0006-2**, springs can be pre-compressed in situ on the vehicle without having to remove the steering knuckle/ stub axle. Spreader tool **KL-0104-21-1 A** is used to widen strut clamping bores, thus allowing the spring/shock absorber unit to be easily removed from the clamping bore hole.

**Expenditure of time about 10 minutes; Time savings about 30 minutes.**

The spindles are equipped with contra-rotating threads which eliminate the risk of slipping round the spring. (Not suitable for use on Mercedes springs.)

**Note:** Use a spring compressor such as the **KL-9002** or **KL-5501** to remove the spring from the vehicle. Two-part spring compressors without safety loop are not authorized for use in workshops.

**Technical Data:**

Max. load capacity:	8,000N
Jaw opening:	65-200mm

## KL-0006 (Universal) Spring Compressor, Ford, Mercedes

### Suitable for Ford and Mercedes.

For replacement of self-levelling shock absorbers, particularly useful on rear axles.

#### Advantages:

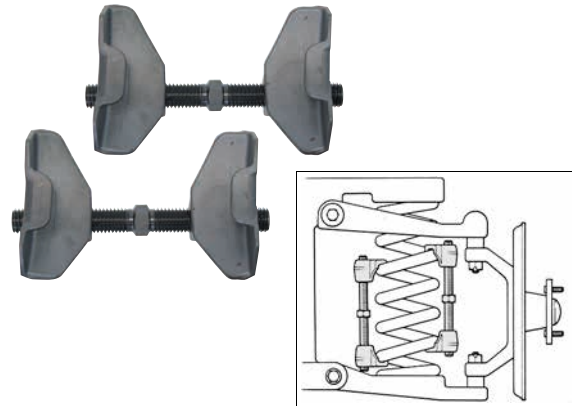
- Spindle features a contra-rotating thread to eliminate the risk of slipping.
- Hex drive located in the centre of the spindle allows for use in confined spaces where other spring compressors cannot be used.

#### Note:

Two-part spring compressors without safety loop are not authorized for use in workshops.

#### Technical Data:

Max. load.:	8,000N
Jaw opening:	85-170mm



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## KL-0056-10 K Shock Absorber Piston Rod Tool Set, in a Storage Case

### Universal application.

Indispensable tool set designed to counter-hold the shock absorber piston rod while loosening or tightening the piston rod nut, e.g. on MacPherson suspension strut systems.

The foam insert of the **KL-4999-131..-Series** included in the kit allows for the safe and clearly arranged storage of the tool components.

#### Scope of Delivery:

##### KL-0056-10 K Shock Absorber Piston Rod Tool Set, in a Storage Case

Part No.	Description	Qty
KL-0056-10 E	Shock Absorber Piston Rod Tool Set in a Foam Insert	1
KL-4999-1394	Plastic Storage Case	1



#### Scope of Delivery:

##### KL-0056-10 E Shock Absorber Piston Rod Tool Set, in a Foam Insert

Part No.	Description	Qty
KL-0056-10	Shock Absorber Piston Rod Tool Set	1
KL-4999-1321	Foam Insert	1

#### Scope of Delivery:

##### KL-0056-10 Shock Absorber Piston Rod Tool Set

Part No.	Description	Qty
KL-0050-511	Shock Absorber Pin Wrench	1
KL-0050-5221	Special Hex Socket, (waf) 21mm, BMW	1
KL-0056-17	Special Hex Socket, (waf) 17mm	1
KL-0056-18	Special Hex Socket, (waf) 18mm	1
KL-0056-19	Special Hex Socket, (waf) 19mm	1
KL-0056-21	Special Hex Socket, (waf) 21mm	1
KL-0056-22	Special Hex Socket, (waf) 22mm	1
KL-0056-24	Special Hex Socket, (waf) 24mm	1
KL-0056-37	Insert Torx® T50	1
KL-0056-45	Hex Insert, (waf) 11mm	1
KL-0056-51	Hex Socket Insert, (waf) 6mm	1
KL-0056-52	Hex Socket Insert, (waf) 7mm	1
KL-0056-71	Insert, double flat, (waf) 5.2mm	1
KL-0056-72	Insert, double flat, (waf) 6mm	1
KL-0056-74	Insert, double flat, (waf) 7mm	1
KL-0056-75	Insert, double flat, (waf) 8mm	1
KL-0056-96	Insert, XZN-M12	1
KL-0050-0012	Strut Nut Socket with Pins, 10.5mm	1
KL-0050-0013	Strut Nut Socket with Pins, 12.5mm	1
KL-0050-0014	Strut Nut Socket with Pins, 14.5mm	1
KL-0050-0015	Strut Nut Socket with Pins, 14.5mm	1
KL-0050-51	Strut Nut Socket, Mercedes W203	1
1 B 10	Combination Spanner, 10mm	1
KL-4111-1922	Ratchet Ring Spanner, 19 and 22mm (waf)	1





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## KL-0056-100 K

### Shock Absorber Piston Rod Tool Set

**Universal application.**

Indispensable tool set designed to counter-hold the shock absorber piston rod while loosening or tightening the piston rod nut, e.g. on MacPherson suspension strut systems.

**Advantages:**

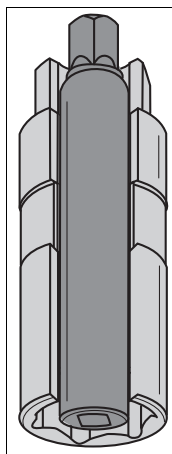
- Enables quick, easy and professional loosening and tightening of the piston rod nut.
- THE ideal tool set for the professional shock absorber service, thanks to the special composition of the tool set.
- All components are separately available as spare parts.

**Scope of Delivery:**

**KL-0056-100 K Shock Absorber Piston Rod Tool Set**

Part No.	Description	Qty
KL-0056-17	Special Hex Socket, Size (waf) 17mm	1
KL-0056-18	Special Hex Socket, Size (waf) 18mm	1
KL-0056-19	Special Hex Socket, Size (waf) 19mm	1
KL-0056-21	Special Hex Socket, Size (waf) 21mm	1
KL-0056-22	Special Hex Socket, Size (waf) 22mm	1
KL-0056-24	Special Hex Socket, Size (waf) 24mm	1
KL-0056-37	Insert, Torx® T50	1
KL-0056-45	Hex Insert, 11 mm (waf)	1
KL-0056-51	Hex Socket Insert, 6mm (waf)	1
KL-0056-52	Hex Socket Insert, 7mm (waf)	1
KL-0056-71	Insert, double flat, 5.2mm (waf)	1
KL-0056-72	Insert, double flat, 6mm (waf)	1
KL-0056-74	Insert, double flat, 7mm (waf)	1
KL-0056-75	Insert, double flat, 8mm (waf)	1
KL-0056-96	Insert, XZN-M12	1
KL-0050-0015	Strut Nut Socket with Pins, 14.5mm	1
KL-0050-51	Strut Nut Socket with Pins, Mercedes W203	1
1 B 10	Combination Spanner, 10mm	1
KL-4111-1922	Ratchet Ring Spanner, 19mm and 22mm (waf)	1
KL-0056-1090	Plastic Storage Case	1

XZN hex 2-flat Torx internal hex



\* = reg. trademark of Acument Intellectual Properties, LLC. USA

## KL-0056-35

### Insert Torx® T40, Porsche/VW



**Suitable for Porsche Cayenne, VW Touareg etc.**

Designed to prevent the damper piston rod from rotating while loosening or tightening the damper piston rod nut. The insert is used with a special socket of the **KL-0056-... Series**, on MacPherson strut suspension systems for example.

\* = reg. trademark of Acument Intellectual Properties, LLC. USA

## KL-0056-43

### Hex Insert, Size (waf) 9mm



**Applicable to various Opel/Vauxhall vehicles.**

Designed to prevent the damper piston rod from rotating while loosening or tightening the damper piston rod nut. The insert is used with a special socket of the **KL-0056-... Series**, on MacPherson strut suspension systems for example.

## KL-0056-50

### Hex Socket Insert, Size (waf) 5mm



**Applicable to Nissan, Honda etc.**

Designed to prevent the damper piston rod from rotating while loosening or tightening the damper piston rod nut. The insert is used with a special socket of the **KL-0056-... Series**, on MacPherson strut suspension systems for example.

## KL-0250-1 Counter-Hold Tool

Suitable for VW-Audi, Ford, Opel/Vauxhall, Japanese cars, etc.

Designed to prevent the damper piston rod from rotating while removing and replacing the rear strut.

**Technical Data:**

Length:	182mm
Weight:	139g
2-point:	5 and 6mm



1

## KL-0050-0070 Set of Nut Sockets with Pins (3-piece set)

2-pin nut sockets for shock absorber piston rod nut.

**Scope of Delivery: KL-0050-0070 Set of Nut Sockets with Pins (3-piece set)**

Part No.	Description	Bore	for
KL-0050-0012	Nut Socket with Pins	10.5mm	VW Golf rear axle
KL-0050-0013	Nut Socket with Pins	12.5mm	VW Polo front axle
KL-0050-0014	Nut Socket with Pins	14.5mm	Polo, Golf, Passat, Audi 80, Vento

**Accessories:**

KL-0050-0015	Nut Socket with Pins	14.5mm	Austin Maestro
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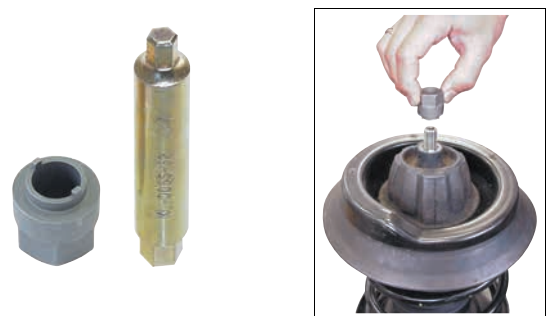
## KL-0050-510 Shock Absorber Piston Rod Tool Set, Mercedes

Suitable for Mercedes C-Class (W203) and CLK (W209) front axle.

For loosening and tightening shock absorber piston rod nuts (groove nut).

**Scope of Delivery: KL-0050-510 Shock Absorber Piston Rod Tool Set, Mercedes**

Part No.	Description	Qty
KL-0050-51	Nut Socket with Pins, Mercedes W203	1
KL-0056-52	Insert, internal hex (waf) 7mm	1



## KL-0050-511 Shock Absorber Pin Wrench, Mercedes

Suitable for Mercedes E-Class (W211) T-Model (estate car), rear axle.

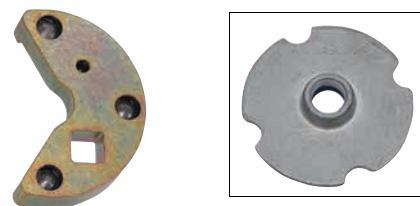
For loosening and tightening the piston rod fastening nut. The pin wrench KL-0050-511 is designed to lock the upper mounting plate during the loosening process.

**Technical Data:**

Drive:	3/8"
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**Scope of Delivery: KL-0050-511 Shock Absorber Pin Wrench**

Part No.	Description	Qty
KL-0050-5110	Fixing Disc with Magnet	1
KL-0280-1104	Cylindric Pin, Ø 8x12mm	3



## KL-0050-5221 Special Hex Socket, Size (waf) 21mm, BMW

Applicable to BMW vehicles, e.g. 1 Series (E87), 3 Series (E46, E90), 5 Series (E39, E60, E61), 6 Series (E63, E64), 7 Series (E38, E65, E66), X5 (E53), X3 (E83), Z8 (E52), Z4 (E85); Mini Cooper (R50, R52, R53) front axle.

The cut-out in the KL-0050-5221 socket is designed to counterhold the piston rod when loosening and tightening the piston rod fastening nut. This feature prevents the piston rod from turning out of position and consequently the risk of damaging the actuator cable (front axle with EDC) is eliminated.

**Technical Data:**

Size (waf):	21mm
Drive:	19mm



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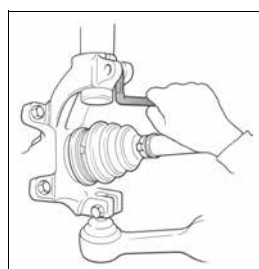


## KL-0050-000..

### Pulling T-Wrench, M12x1.25, BMW

Pulling T-Wrench for shock absorber piston rod.

Part No.	Description
KL-0050-0001	Pulling T-Wrench, M12x1,25 BMW
KL-0050-0002	Pulling T-Wrench, M15x1,5 GM / Opel/Vauxhall
KL-0050-0003	Pulling T-Wrench, M12x1,5 Audi
KL-0050-0005	Pulling T-Wrench, M10x1 Renault
KL-0050-0006	Pulling T-Wrench, M14x1,5 VW-Audi, Opel/Vauxhall
KL-0050-0007	Pulling T-Wrench, M10x1,5 BMW



## KL-0101

### Spreader Bar for Suspension Strut Mounting

Suitable for Ford, VW-Audi, Peugeot, Renault, Citroën, Japanese passenger cars, etc.

This tool is designed to open out steering knuckle clamping bores for the suspension strut mountings. NEVER use a chisel or screwdriver for this work!

#### Technical Data:

Length:	205mm
Width:	5mm
Widening dimension:	7mm
Weight:	65g



## KL-0101-1

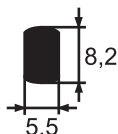
### Spreader Socket, Size (waf) 5mm

Suitable for strut clamping bores, e.g. on VW-Audi, BMW, Citroën, Ford, Seat, Škoda, Renault, Peugeot, Japanese vehicles, etc.

The spreader socket **KL-0101-1** is designed to widen clamping bores. This procedure is essential for the professional removal of tight-fitting/stuck suspension strut-/damper units from steering knuckle clamping bores. As a result, shock absorber units can easily be removed and installed. Hammer and chisel are no longer required.

#### Technical Data:

Drive:	1/2"
Length:	60mm
Width:	5mm
Widening dimension:	7mm
Weight:	75g



## KL-0101-2

### Spreader Socket, Size (waf) 5.5mm

Suitable for strut clamping bores; e.g. on VW-Audi Golf (IV), TT, BMW, Citroën, Ford, Seat, Škoda, Renault, Peugeot, Japanese vehicles, etc.

The spreader socket **KL-0101-2** is designed to widen clamping bores. This procedure is essential for the professional removal of tight-fitting/stuck suspension strut-/damper units from steering knuckle clamping bores. As a result, shock absorber units can easily be removed and installed. Hammer and chisel are no longer required.

#### Technical Data:

Drive:	1/2"
Length:	50mm
Width:	5.5mm
Widening dimension:	8.2mm
Weight:	75g

## KL-0104-21-1 A (Patented) Spreader Tool Kit with Wedge No.1 and No.2

Suitable for strut clamping bores as found on Audi: A3 (8P, 8V), VW: Golf (IV - VII), Passat (3C, 362, 365), BMW, Citroën, Ford, Mercedes: Vito, V-Class, Seat, Škoda, Renault, Peugeot, Japanese vehicles etc.

The KL-0104-21-1 A spreader tool is designed to widen strut clamping bores. This procedure is essential for the professional removal of tight-fitting or stuck spring/shock absorber units. As a result, shock absorber units can easily be removed and installed without the risk of damaging the cast iron or aluminium steering knuckle.

Thanks to its variably adjustable spreading head, the tool is ideal for use on steering knuckles with a non-centralised slot as found on VW-Audi, Ford etc.

Due to its dimension and special shape, the interchangeable wedge of the spreading head is particularly suitable for aluminium steering knuckles. The wedge is provided with a limit stop to avoid excessive knuckle widening.

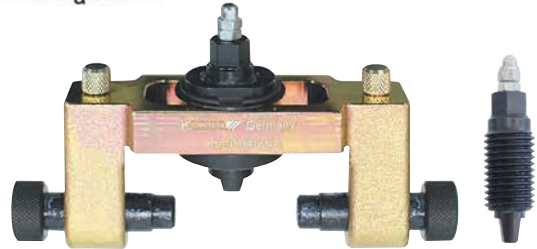
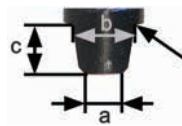
The float-mounted bolts prevent the tool from jamming during knuckle widening.

### Technical Data:

Clamping bore width (max.):	75mm
Dimensions (wedge No.1):	a.: 5.8mm; b.: 8.5mm; c.: 4.5mm
Dimensions (wedge No.2):	a.: 4.5mm; b.: 8mm; c.: 10mm
Weight:	900g

### Scope of Delivery: KL-0104-21-1 A Spreader Tool Kit with Wedge No.1 and No.2

Part No.	Description	Qty
KL-0104-21 A	Spreader Tool (adjustable) with Wedge No.1	1
KL-0104-2122	Pressure Screw with Wedge No.2	1



## KL-0104-211 (Patented) Spreader Tool Upgrade Kit, VW T5

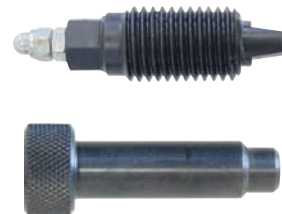
Suitable for VW T5, front axle

The KL-0104-211 upgrade kit is used in conjunction with the KL-0104-21-1 A spreader tool kit to widen strut clamping bores. This procedure is essential for the professional removal of tight-fitting or stuck spring/shock absorber units from steering knuckles.

As a result, shock absorber units can easily be removed and installed without the risk of damaging the cast iron or aluminium steering knuckle.

### Scope of Delivery: KL-0104-211 Spreader Tool Upgrade Kit, VW T5

Part No.	Description	Qty
KL-0104-2123	Pressure Screw with Wedge No. 3	1
KL-0104-2111	Bolt, Ø 10mm for thread bore	1



## KL-0104-2124 (Patented) Pressure Screw with Wedge No. 4

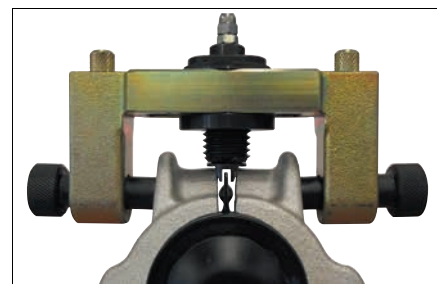
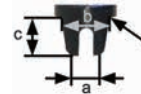
Suitable for the strut clamping bores found on Audi TT (8S).

In conjunction with the KL-0104-21-1 A spreader tool, the pressure screw is used to widen strut clamping bores. This procedure is essential for the professional removal of spring/shock absorber units.

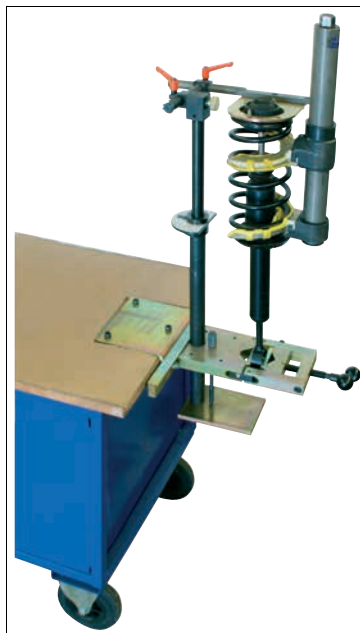
The special design of the tool prevents damage to the cast iron or aluminium steering knuckle.

### Technical Data:

a:	6mm
b:	9.5mm
c:	6.5mm



1



## KL-0255

### Strut Holder and Adjustment Device

**Suitable for VW-Audi vehicles from 1990 onwards.**

This strut holder and adjustment device enables quick, easy and accurate adjustment and repairs of suspension/damper struts to be carried out on a workbench. Due to its special design, the device enables strut tubes to be clamped in vertical position and damper eyes in horizontal position.

The degree scale allows the user to accurately adjust the offset between the bottom and top damper eye/mount.

**Advantages:**

- Suspension/damper struts are clamped professionally and securely during repairs.
- Possibility to clamp suspension/damper struts vertically as well as horizontally into the device - thanks to the interchangeable jaws.
- The degree scale ensures compatibility and universal use of the tool also with future suspension systems.
- The device can be fixed to a work bench or clamped into a vise.

**Note for VW and Audi vehicles:**

The front spring/shock absorber struts on VW-Audi vehicles need to be pre-adjusted on the workbench prior to installation in order to ensure that the upper mounting point (spring plate) and the lower shock absorber strut mount (fork/shock absorber eye) are correctly aligned with one another. Unless this work is undertaken first, the shock absorber strut cannot be installed, as the mounting points between the shock absorber strut and the body/axle beam are not in true alignment. If the shock absorber strut mount is forced into the correct position, the O-rings for ride-level control will be damaged and the shock absorber strut will be installed incorrectly (distorted). This will lead to noisy suspension and incorrect road performance of the vehicle.

**Attention:** With VW-Audi vehicles, only use the **KL-0015** spring compressor and protective inserts.

**Setting Data :**

Audi 80/90 rear axle	21° ± 2°
Audi 100 Quattro from '91 onwards rear axle	51° ± 2°
Audi 100 (Front-wheel drive) 1991 onwards rear axle	45° ± 2°
Audi A4 (B5) front axle (with KL-0255-10)	11° ± 2°
Audi A4 (B5) rear axle (with KL-0255-10)	50° ± 2°
Audi A6 from 1997 onwards	11° ± 2°
VW Passat from 1996 onwards	11° ± 2°

Weight: 26kg

## KL-0255-10

### Adjustment Plate for Audi A4

Adjustment plate for Audi A4 (B5 from 1996-2001), front and rear axle.

**Accessories:**

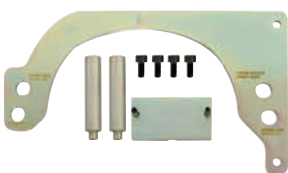
**KL-0255-10**



**KL-0255-11**



**KL-0255-12**



## KL-0255-11

(Patented)

### Upgrade Kit, Audi A6

**Suitable for Audi A6 (4F models from 2004-2011), front axle.**

The upgrade kit is used with the **KL-0255** strut holder and adjustment device, thus enabling the quick and professional adjustment of the spring plate relative to the shock absorber holder eye. The setting gauge allows the user to accurately adjust the offset between the bottom shock absorber mount and the upper spring plate.

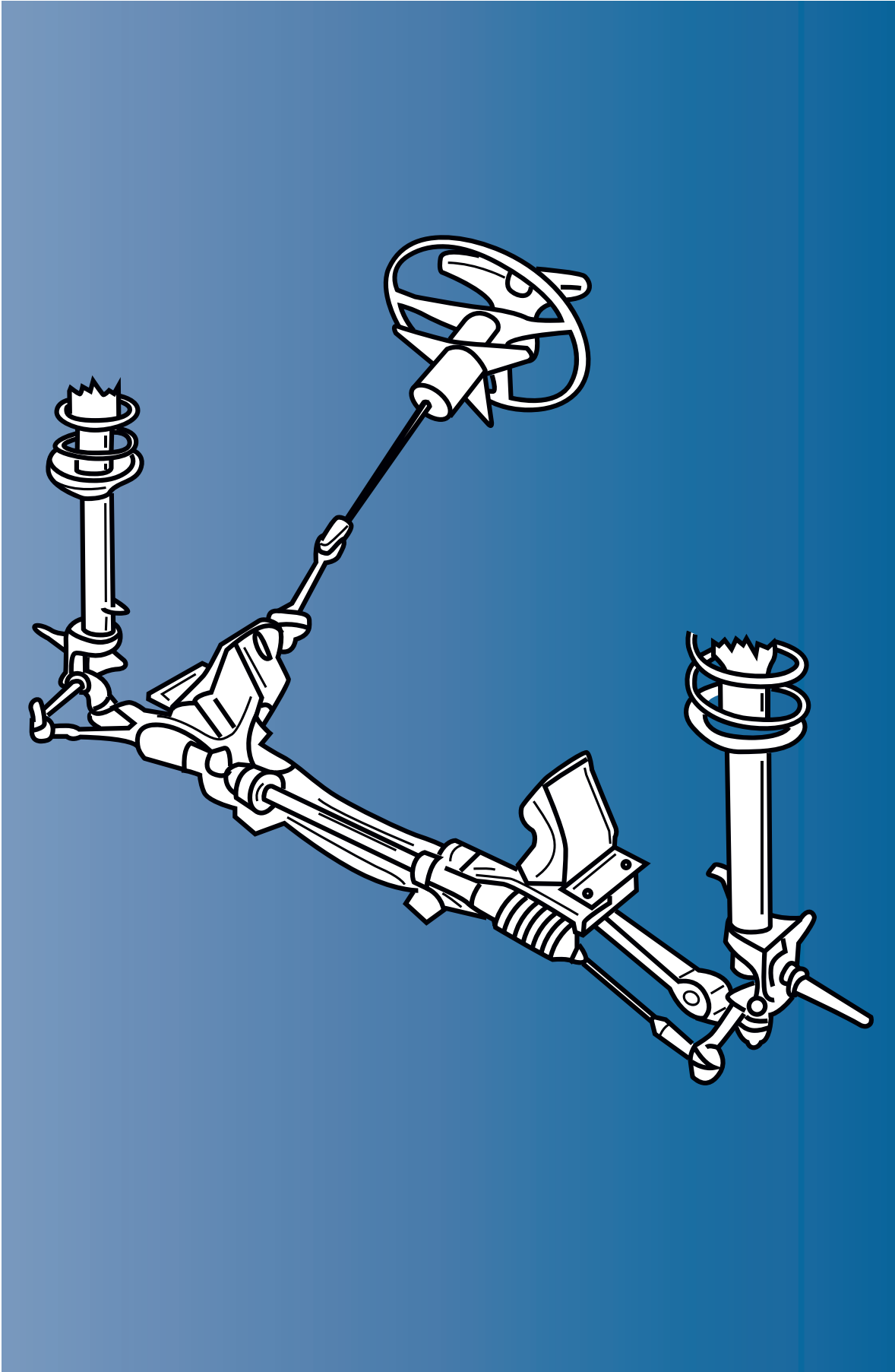
## KL-0255-12

(Patented)

### Upgrade Kit, Audi A4/A5

**Designed for Audi A4 (8K models from 2007 onwards) and Audi A5 (8T models from 2007 onwards)**

The upgrade kit is used in conjunction with the **KL-0255** strut holder and adjustment device thus allowing for an accurate and quick adjustment of the spring plate relative to the to the shock absorber holder eye. The setting gauge allows the user to accurately adjust the offset between the bottom shock absorber mount and the upper spring plate.



# Steering System/Geometry

## The GEDORE Automotive Silenbloc Tool KL-0039-Series

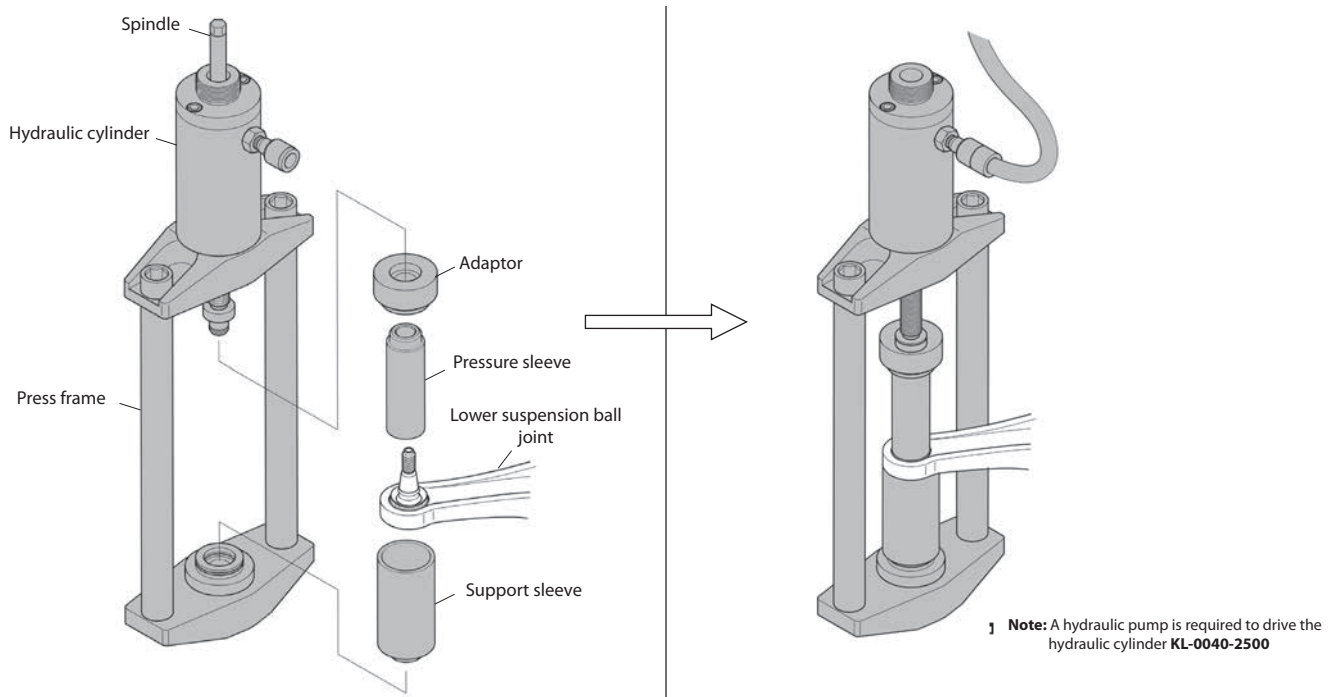
### The big advantages of the unrivalled KL-0039- Tool Series are:

- ☑ Universal use of the tool.
- ☑ Substantial time and cost savings as the required tool can easily and universally be assembled as needed.

### Silenbloc / Suspension Ball Joint / Removal / Installation using a press frame

#### Identification of the necessary parts and assembling the tool:

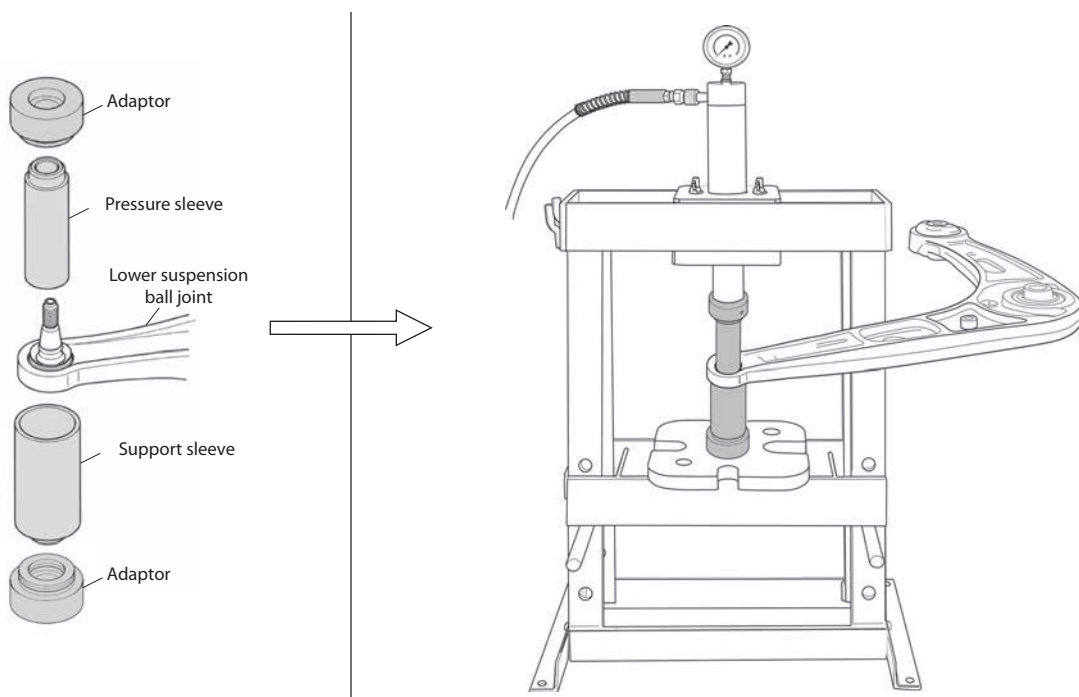
⇒ Mount the tool and press out the silenbloc / suspension ball joint. (Installation follows the same principle)



### Silenbloc / Suspension Ball Joint / Removal / Installation using a bench press

#### Identification of the necessary parts and assembling the tool:

⇒ Mount the tool and press out the silenbloc / suspension ball joint. (Installation follows the same principle)



## KL-0039-930 H

### Press Tool Set (short), with Hydr. Cyl. (17t)

Universally suitable for silentbloks, lower and upper suspension ball joints, etc.

The press tool set **KL-0039-930 H** allows the quick, professional and safe removal and installation of silentbloks, suspension ball joints, etc. with  $\varnothing$  of 30-59mm, to be performed in situ on the vehicle without the need for dismantling the axle or the wishbone. The 17t hydraulic cylinder that comes with the set ensures professional and trouble-free removal of silentbloks and joint bushes.

The tool set can easily be upgraded with other parts of the **KL-0039-.. Series** such as pull spindles and adaptors, thus allowing for a wide range of applications.

**Scope of Delivery: KL-0039-930 H Press Tool Set (short), with 17t Hydraulic Cylinder**

Part No.	Description	Qty
KL-0039-1140	Press Frame (Lightweight, Short Design)	1
KL-0040-2500	Hydraulic Cylinder (17t)	1
KL-0039-1930	Pressure Spindle with O-Ring, M20x350	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
<b>KL-0039-1601</b>	<b>Pressure/Support Sleeve Set (Short Design)</b>	<b>1</b>
<b>KL-0039-1701</b>	<b>Pressure/Support Sleeve Set (Long Design)</b>	<b>1</b>
KL-0039-9000	Wooden Storage Plate (without Tools)	1

**Scope of Delivery: KL-0039-1601 Pressure/Support Sleeve Set (Short Design)**

Part No.	Description	Qty
KL-0039-1610	Guide Pin (short),10mm	1
KL-0039-1612	Guide Pin (short),12mm	1
KL-0039-1614	Guide Pin (short),14mm	1
KL-0039-1616	Guide Pin (short),16mm	1
KL-0039-1630	Pressure/Support Sleeve (short), $\varnothing$ A: 30mm, $\varnothing$ B: 22mm	1
KL-0039-1632	Pressure/Support Sleeve (short), $\varnothing$ A: 32mm, $\varnothing$ B: 24mm	1
KL-0039-1634	Pressure/Support Sleeve (short), $\varnothing$ A: 34mm, $\varnothing$ B: 26mm	1
KL-0039-1636	Pressure/Support Sleeve (short), $\varnothing$ A: 36mm, $\varnothing$ B: 28mm	1
KL-0039-1638	Pressure/Support Sleeve (short), $\varnothing$ A: 38mm, $\varnothing$ B: 30mm	1
KL-0039-1640	Pressure/Support Sleeve (short), $\varnothing$ A: 40mm, $\varnothing$ B: 32mm	1
KL-0039-1642	Pressure/Support Sleeve (short), $\varnothing$ A: 42mm, $\varnothing$ B: 34mm	1
KL-0039-1644	Pressure/Support Sleeve (short), $\varnothing$ A: 44mm, $\varnothing$ B: 36mm	1
KL-0039-1646	Pressure/Support Sleeve (short), $\varnothing$ A: 46mm, $\varnothing$ B: 38mm	1
KL-0039-1648	Pressure/Support Sleeve (short), $\varnothing$ A: 48mm, $\varnothing$ B: 40mm	1
KL-0039-1650	Pressure/Support Sleeve (short), $\varnothing$ A: 50mm, $\varnothing$ B: 42mm	1
KL-0039-1652	Pressure/Support Sleeve (short), $\varnothing$ A: 52mm, $\varnothing$ B: 44mm	1
KL-0039-1654	Pressure/Support Sleeve (short), $\varnothing$ A: 54mm, $\varnothing$ B: 46mm	1
KL-0039-1656	Pressure/Support Sleeve (short), $\varnothing$ A: 56mm, $\varnothing$ B: 48mm	1
KL-0039-1658	Pressure/Support Sleeve (short), $\varnothing$ A: 58mm, $\varnothing$ B: 50mm	1
KL-0039-1660	Pressure/Support Sleeve (short), $\varnothing$ A: 60mm, $\varnothing$ B: 52mm	1
KL-0039-1662	Pressure/Support Sleeve (short), $\varnothing$ A: 62mm, $\varnothing$ B: 54mm	1
KL-0039-1664	Pressure/Support Sleeve (short), $\varnothing$ A: 64mm, $\varnothing$ B: 56mm	1
KL-0039-1666	Pressure/Support Sleeve (short), $\varnothing$ A: 66mm, $\varnothing$ B: 58mm	1
KL-0039-1668	Pressure/Support Sleeve (short), $\varnothing$ A: 68mm, $\varnothing$ B: 60mm	1

## KL-0039-931 H

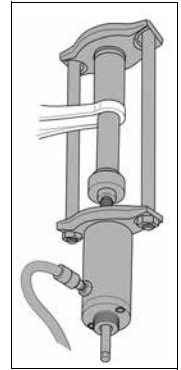
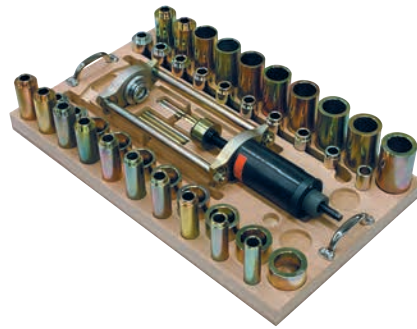
### Press Tool Set (Short Design), without Drive

Universally suitable for silentbloks, upper and lower ball joints etc.

The press tool set **KL-0039-931 H** allows the quick, professional and safe removal and installation of silentbloks, suspension ball joints, etc. with  $\varnothing$  of 30-59mm to be performed in situ on the vehicle without the need for dismantling the axle or the wishbone. Used in conjunction with a hydraulic drive, the tools ensure professional and trouble-free removal of silentbloks and joint bushes. The tool set can easily be upgraded with other parts of the **KL-0039-.. Series** such as a mechanical drive with pull spindle, thus allowing for a wide range of applications.

**Scope of Delivery: KL-0039-931 H Press Tool Set (Short Design), without Drive**

Part No.	Description	Qty
KL-0039-1140	Press Frame (Lightweight, Short Design)	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1930	Pressure Spindle with O-Ring, M20x350	1
<b>KL-0039-1601</b>	<b>Pressure/Support Sleeve Set (Short Design)</b>	<b>1</b>
<b>KL-0039-1701</b>	<b>Pressure/Support Sleeve Set (Long Design)</b>	<b>1</b>
KL-0039-9000	Wooden Storage Plate (without Tools)	1

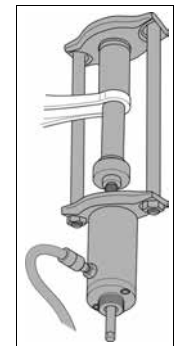
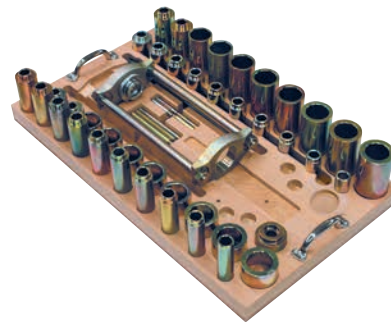


#### Technical Data:

Inner length (press frame):	275mm
Inner width (press frame):	115mm
Max. load capacity of press frame:	12t
Max. load capacity hydraulic cylinder:	17t

**Scope of Delivery: KL-0039-1701 Pressure-/Support Sleeve Set (Long Design)**

Part No.	Description	Qty
KL-0039-1710	Guide Pin (long), 10mm	1
KL-0039-1712	Guide Pin (long), 12mm	1
KL-0039-1714	Guide Pin (long), 14mm	1
KL-0039-1716	Guide Pin (long), 16mm	1
KL-0039-1730	Pressure/Support Sleeve (long), $\varnothing$ A: 30mm, $\varnothing$ B: 22mm	1
KL-0039-1732	Pressure/Support Sleeve (long), $\varnothing$ A: 32mm, $\varnothing$ B: 24mm	1
KL-0039-1734	Pressure/Support Sleeve (long), $\varnothing$ A: 34mm, $\varnothing$ B: 26mm	1
KL-0039-1736	Pressure/Support Sleeve (long), $\varnothing$ A: 36mm, $\varnothing$ B: 28mm	1
KL-0039-1738	Pressure/Support Sleeve (long), $\varnothing$ A: 38mm, $\varnothing$ B: 30mm	1
KL-0039-1740	Pressure/Support Sleeve (long), $\varnothing$ A: 40mm, $\varnothing$ B: 32mm	1
KL-0039-1742	Pressure/Support Sleeve (long), $\varnothing$ A: 42mm, $\varnothing$ B: 34mm	1
KL-0039-1744	Pressure/Support Sleeve (long), $\varnothing$ A: 44mm, $\varnothing$ B: 36mm	1
KL-0039-1746	Pressure/Support Sleeve (long), $\varnothing$ A: 46mm, $\varnothing$ B: 38mm	1
KL-0039-1748	Pressure/Support Sleeve (long), $\varnothing$ A: 48mm, $\varnothing$ B: 40mm	1
KL-0039-1750	Pressure/Support Sleeve (long), $\varnothing$ A: 50mm, $\varnothing$ B: 42mm	1
KL-0039-1752	Pressure/Support Sleeve (long), $\varnothing$ A: 52mm, $\varnothing$ B: 44mm	1
KL-0039-1754	Pressure/Support Sleeve (long), $\varnothing$ A: 54mm, $\varnothing$ B: 46mm	1
KL-0039-1756	Pressure/Support Sleeve (long), $\varnothing$ A: 56mm, $\varnothing$ B: 48mm	1
KL-0039-1758	Pressure/Support Sleeve (long), $\varnothing$ A: 58mm, $\varnothing$ B: 50mm	1
KL-0039-1760	Pressure/Support Sleeve (long), $\varnothing$ A: 60mm, $\varnothing$ B: 52mm	1
KL-0039-1762	Pressure/Support Sleeve (long), $\varnothing$ A: 62mm, $\varnothing$ B: 54mm	1
KL-0039-1764	Pressure/Support Sleeve (long), $\varnothing$ A: 64mm, $\varnothing$ B: 56mm	1
KL-0039-1766	Pressure/Support Sleeve (long), $\varnothing$ A: 66mm, $\varnothing$ B: 58mm	1
KL-0039-1768	Pressure/Support Sleeve (long), $\varnothing$ A: 68mm, $\varnothing$ B: 60mm	1



#### Technical Data:

Inner length (press frame):	275mm
Inner width (press frame):	115mm
Max. load capacity of press frame:	12t





## KL-0039-160 K

Pressure/Support Sleeve Set,  
Ø 30-90mm, short, 45mm, in a Plastic Storage Case

Indispensable tool set for pressing in and pressing out silentblocs, shafts, bushings etc. The sleeves are used in conjunction with the tools of the **KL-0039... Series**.

**Scope of Delivery:**

**KL-0039-160 K Pressure/Support Sleeve Set, Ø 30-90mm, short, 45mm, in a Plastic Storage Case**

Part No.	Description	Qty
KL-0039-160 E	Pressure/Support Sleeve Set, Ø 30-90mm (short) 45mm, in a Foam Insert	1
KL-4999-1391	Plastic Storage Case	1

**Scope of Delivery:**

**KL-0039-160 E Pressure/Support Sleeve Set, Ø 30-90mm, short, 45mm, in a Foam Insert**

Part No.	Description	Qty
KL-0039-160	Press-/Support Sleeve Set, Ø 30-90mm (short), 45mm	1
KL-4999-1312	Foam Insert	1

**Scope of Delivery:**

**KL-0039-160 Pressure/Support Sleeve Set, Ø 30-90mm, short, 45mm**

Part No.	Description	Qty
KL-0039-1630	Pressure-/Support Sleeve, short, Ø 30/22mm	1
KL-0039-1632	Pressure-/Support Sleeve, short, Ø 32/24mm	1
KL-0039-1634	Pressure-/Support Sleeve, short, Ø 34/26mm	1
KL-0039-1636	Pressure-/Support Sleeve, short, Ø 36/28mm	1
KL-0039-1638	Pressure-/Support Sleeve, short, Ø 38/30mm	1
KL-0039-1640	Pressure-/Support Sleeve, short, Ø 40/32mm	1
KL-0039-1642	Pressure-/Support Sleeve, short, Ø 42/34mm	1
KL-0039-1644	Pressure-/Support Sleeve, short, Ø 44/36mm	1
KL-0039-1646	Pressure-/Support Sleeve, short, Ø 46/38mm	1
KL-0039-1648	Pressure-/Support Sleeve, short, Ø 48/40mm	1
KL-0039-1650	Pressure-/Support Sleeve, short, Ø 50/42mm	1
KL-0039-1652	Pressure-/Support Sleeve, short, Ø 52/44mm	1
KL-0039-1654	Pressure-/Support Sleeve, short, Ø 54/46mm	1
KL-0039-1656	Pressure-/Support Sleeve, short, Ø 56/48mm	1
KL-0039-1658	Pressure-/Support Sleeve, short, Ø 58/50mm	1
KL-0039-1660	Pressure-/Support Sleeve, short, Ø 60/52mm	1
KL-0039-1662	Pressure-/Support Sleeve, short, Ø 62/54mm	1
KL-0039-1664	Pressure-/Support Sleeve, short, Ø 64/56mm	1
KL-0039-1666	Pressure-/Support Sleeve, short, Ø 66/58mm	1
KL-0039-1668	Pressure-/Support Sleeve, short, Ø 68/60mm	1
KL-0039-1670	Pressure-/Support Sleeve, short, Ø 70/62mm	1
KL-0039-1672	Pressure-/Support Sleeve, short, Ø 72/64mm	1
KL-0039-1674	Pressure-/Support Sleeve, short, Ø 74/66mm	1
KL-0039-1676	Pressure-/Support Sleeve, short, Ø 76/68mm	1
KL-0039-1678	Pressure-/Support Sleeve, short, Ø 78/70mm	1
KL-0039-1680	Pressure-/Support Sleeve, short, Ø 80/72mm	1
KL-0039-1682	Pressure-/Support Sleeve, short, Ø 82/74mm	1
KL-0039-1684	Pressure-/Support Sleeve, short, Ø 84/76mm	1
KL-0039-1686	Pressure-/Support Sleeve, short, Ø 86/78mm	1
KL-0039-1688	Pressure-/Support Sleeve, short, Ø 88/80mm	1
KL-0039-1690	Pressure-/Support Sleeve, short, Ø 90/82mm	1

KL-0039-160 E



## KL-0039-170 K

### Pressure/Support Sleeve Set, Ø 30-90mm, long, 115mm, in a Plastic Storage Case

Indispensable tool set for pressing in and pressing out silentblochs, shafts, bushings etc. The sleeves are used in conjunction with the tools of the **KL-0039-... Series**.

**Scope of Delivery:**

**KL-0039-170 K Pressure/Support Sleeve Set, Ø 30-90mm, long, 115mm, in a Plastic Storage Case**

Part No.	Description	Qty
KL-0039-170 E	Pressure/Support Sleeve Set, Ø 30-90mm, long, 115mm, in a Foam Insert	1
KL-4999-1390	Plastic Storage Case	1

**Scope of Delivery:**

**KL-0039-170 E Pressure/Support Sleeve Set, Ø 30-90mm, long, 115mm, in a Foam Insert**

Part No.	Description	Qty
KL-0039-170	Pressure/Support Sleeve Set Ø 30-90mm, long, 115mm	1
KL-4999-1311	Foam Insert	1

**Scope of Delivery:**

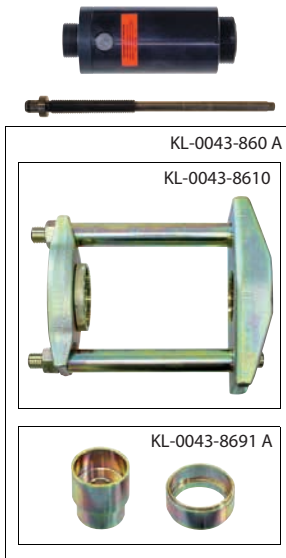
**KL-0039-170 Pressure/Support Sleeve Set, Ø 30-90mm, long, 115mm**

Part No.	Description	Qty
KL-0039-1730	Pressure-/Support Sleeve, long, Ø 30/22mm	1
KL-0039-1732	Pressure-/Support Sleeve, long, Ø 32/24mm	1
KL-0039-1734	Pressure-/Support Sleeve, long, Ø 34/26mm	1
KL-0039-1736	Pressure-/Support Sleeve, long, Ø 36/28mm	1
KL-0039-1738	Pressure-/Support Sleeve, long, Ø 38/30mm	1
KL-0039-1740	Pressure-/Support Sleeve, long, Ø 40/32mm	1
KL-0039-1742	Pressure-/Support Sleeve, long, Ø 42/34mm	1
KL-0039-1744	Pressure-/Support Sleeve, long, Ø 44/36mm	1
KL-0039-1746	Pressure-/Support Sleeve, long, Ø 46/38mm	1
KL-0039-1748	Pressure-/Support Sleeve, long, Ø 48/40mm	1
KL-0039-1750	Pressure-/Support Sleeve, long, Ø 50/42mm	1
KL-0039-1752	Pressure-/Support Sleeve, long, Ø 52/44mm	1
KL-0039-1754	Pressure-/Support Sleeve, long, Ø 54/46mm	1
KL-0039-1756	Pressure-/Support Sleeve, long, Ø 56/48mm	1
KL-0039-1758	Pressure-/Support Sleeve, long, Ø 58/50mm	1
KL-0039-1760	Pressure-/Support Sleeve, long, Ø 60/52mm	1
KL-0039-1762	Pressure-/Support Sleeve, long, Ø 62/54mm	1
KL-0039-1764	Pressure-/Support Sleeve, long, Ø 64/56mm	1
KL-0039-1766	Pressure-/Support Sleeve, long, Ø 66/58mm	1
KL-0039-1768	Pressure-/Support Sleeve, long, Ø 68/60mm	1
KL-0039-1770	Pressure-/Support Sleeve, long, Ø 70/62mm	1
KL-0039-1772	Pressure-/Support Sleeve, long, Ø 72/64mm	1
KL-0039-1774	Pressure-/Support Sleeve, long, Ø 74/66mm	1
KL-0039-1776	Pressure-/Support Sleeve, long, Ø 76/68mm	1
KL-0039-1778	Pressure-/Support Sleeve, long, Ø 78/70mm	1
KL-0039-1780	Pressure-/Support Sleeve, long, Ø 80/72mm	1
KL-0039-1782	Pressure-/Support Sleeve, long, Ø 82/74mm	1
KL-0039-1784	Pressure-/Support Sleeve, long, Ø 84/76mm	1
KL-0039-1786	Pressure-/Support Sleeve, long, Ø 86/78mm	1
KL-0039-1788	Pressure-/Support Sleeve, long, Ø 88/80mm	1
KL-0039-1790	Pressure-/Support Sleeve, long, Ø 90/82mm	1



KL-0039-170 E

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## KL-0043-861 A

### Pressing Device with Hydr. Cyl., VW T4

**Suitable for VW T4 front axle upper ball joint.**

The **KL-0043-861 A** pressing device enables the specified upper ball joints to be removed and installed within just 30 minutes without the need for removing the upper wishbone from the vehicle.

**Advantages:**

- Substantial time savings (2-3 hours).
- Simple and precise use of the tool.
- All components are available individually as spare parts.

**Scope of Delivery: KL-0043-861 A Pressing Device with Hydraulic Cylinder, VW T4**

Part No.	Description	Qty
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0039-1930	Pressure Spindle, M20x350mm, with O-Ring	1
<b>KL-0043-860 A</b>	<b>Pressing Device without Hydraulic Cylinder, VW T4</b>	<b>1</b>

**Scope of Delivery: KL-0043-860 A Pressing Device without Hydr. Cyl., VW T4**

Part No.	Description	Qty
<b>KL-0043-8610</b>	<b>Press Frame</b>	<b>1</b>
<b>KL-0043-8691 A</b>	<b>Sleeve Set, VW T4</b>	<b>1</b>

**Scope of Delivery: KL-0043-8610 Press Frame**

Part No.	Description	Qty
KL-0039-1144	Base Plate, 2 1/4"-14 UNS	1
KL-0039-1144 V	Base Plate, 2 1/4"-14 UNS (reinforced design)	1
KL-0215-4004	Press Frame Rod	2
KL-0049-3004	Hex Nut, M18	4
KL-0043-8601	Adaptor, 2 1/4"-14 UNS to Ø 60mm	1

**Scope of Delivery: KL-0043-8691 A Sleeve Set, VW T4**

Part No.	Description	Qty
KL-0043-8661	Lower Sleeve, VW T4	1
KL-0043-8662 A	Upper Sleeve, VW T4	1

## KL-0326-15

### Hydraulic Press Tool Set, VW T4

**Suitable for the front axle of VW T4, upper ball joint.**

The **KL-0326-15** press tool set enables the upper ball joint to be removed and installed within just 30 minutes, without the need for removing the upper wishbone from the vehicle.

**Advantages:**

- Substantial time savings (2-3 hours).
- Precise and easy to use.
- All components are available individually as spare parts.
- Press frame **KL-0326-1000** is also suitable for use on Mercedes suspension ball joints.

**Scope of Delivery: KL-0326-15 Hydraulic Press Tool Set, VW T4**

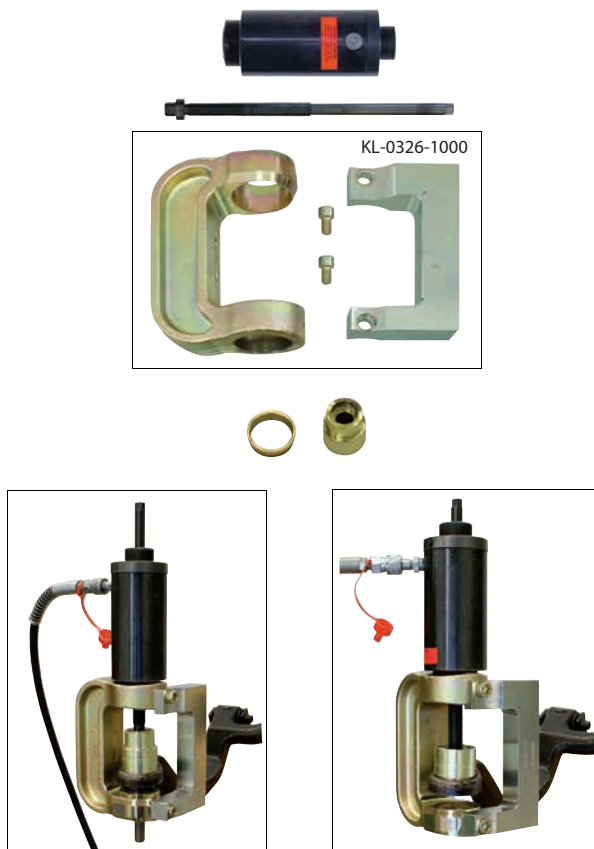
Part No.	Description	Qty
<b>KL-0326-100 A</b>	<b>Hydraulic Press Frame</b>	<b>1</b>
<b>KL-0326-151</b>	<b>Sleeve Set, VW T4</b>	<b>1</b>

**Scope of Delivery: KL-0326-100 A Hydraulic Press Frame, Mercedes**

Part No.	Description	Qty
KL-0326-1000	Press Frame	1
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0039-1930	Pressure Spindle, M20x350, with O-ring	1

**Scope of Delivery: KL-0326-151 Sleeve Set VW T4**

Part No.	Description	Qty
KL-0043-8662 A	Sleeve (upper) VW T4	1
KL-0326-1111	Adaptor ring 1	1



## KL-0039-762

### Pressing Device with Hydraulic Cylinder, BMW E36

Designed for the BMW 3 Series (E36), front axle wishbone.

The **KL-0039-762** pressing device enables the quick and trouble-free removal and installation of the specified outer suspension ball joints that are found on the lower wishbone.

The removal and replacement of the outer suspension ball joint can also be performed in situ on the vehicle within just a few minutes, with the wishbone in place.

Scope of Delivery:

**KL-0039-762 Pressing Device with Hydraulic Cylinder, BMW E36**

Part No.	Description	Qty
KL-0039-7620	Pressing Device without Hydraulic Cylinder, BMW E36	1
KL-0040-2500	Hydraulic Cylinder (17t)	1

Scope of Delivery:

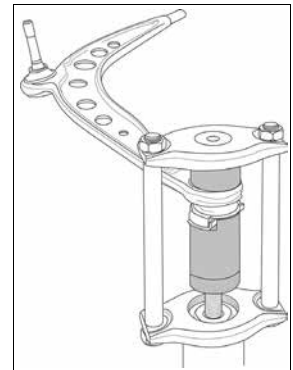
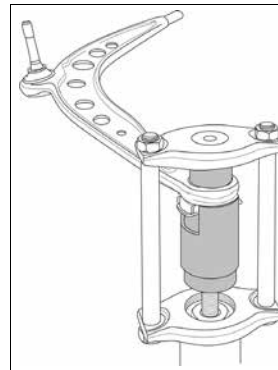
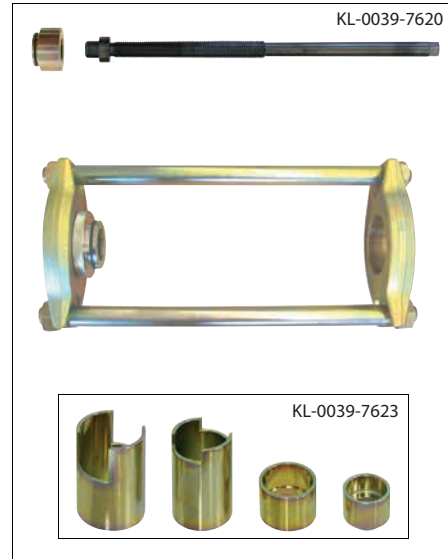
**KL-0039-7620 Pressing Device without Hydraulic Cylinder, BMW E36**

Part No.	Description	Qty
KL-0039-7623	Sleeve Set, BMW E36	1
KL-0039-1140	Press Frame (lightweight, short)	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1930	Pressure Spindle with O-Ring, M20x350	1

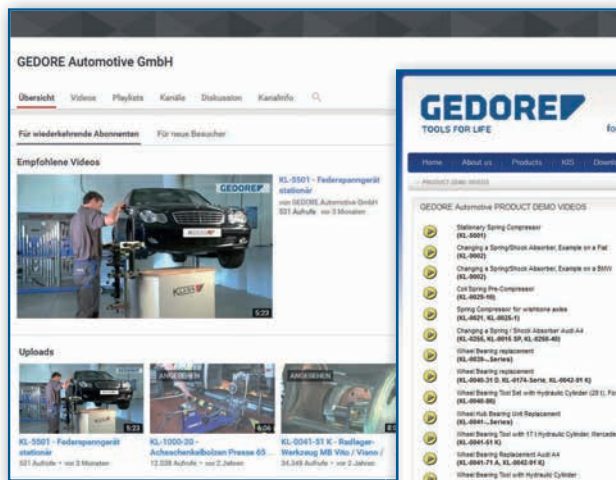
Scope of Delivery:

**KL-0039-7623 Sleeve Set, BMW E36**

Part No.	Description	Qty
KL-0043-8288-1	Pressure Sleeve for BMW E36	1
KL-0043-8289-1	Support Sleeve for BMW E36	1
KL-0039-1648	Pressure/Support Sleeve, short, Ø 48mm	1
KL-0039-1658	Pressure/Support Sleeve, short, Ø 58mm	1

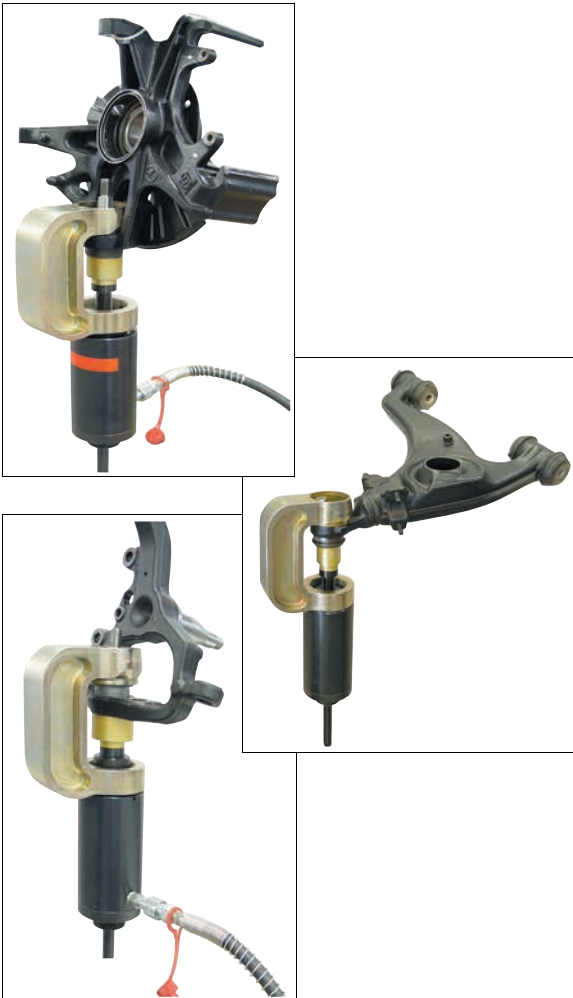
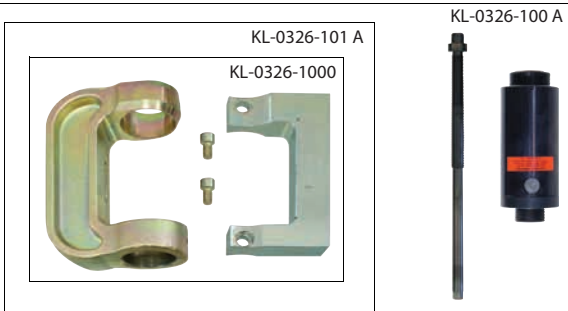


## Online Product Demo Videos



### Product Demo Videos

Product demo videos showing the correct use of selected GEDORE Automotive Specialist Tools can be found on our YouTube channel and of course on our website.



## KL-0326-10 A Hydraulic Press Tool Set, Mercedes

Suitable for Mercedes W201 (190 Series), W124 (E-Class), W211 (E-Class), W219 (CLS), W220 (S-Class), W230 (SL) front axle, and W163 (M-Class) front and rear axle.

The **KL-0326-10 A** hydraulic press tool set is designed to press in/press out the suspension ball joints found on the lower wishbone. With some applications, the removal and installation of the suspension ball joint can also be carried out in situ on the vehicle, without having to dismantle the wishbone.

### Scope of Delivery:

#### KL-0326-10 A Hydraulic Press Tool Set, Mercedes

Part No.	Description	Qty
KL-0326-100 A	Hydraulic Press Frame	1
KL-0326-112 A	Set of Sleeves (W163/W211/W219/W220/W230)	1
KL-0326-1314	Pressure/Support Sleeve, Ø 56/48mm (installation W124, W201)	1
KL-0326-1311	Pressure Ring 3 (removal W124, W201)	1

### Scope of Delivery:

#### KL-0326-100 A Hydraulic Press Frame, Mercedes

Part No.	Description	Qty
KL-0326-1000	Press Frame	1
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0039-1930	Pressure Spindle, M20x350, with O-ring	1

### Scope of Delivery:

#### KL-0326-101 A Hydraulic Press Tool Set without Drive, Suspension Ball Joint

Part No.	Description	Qty
KL-0326-1000	Press Frame (without drive and sleeves)	1
KL-0326-112 A	Set of Sleeves (W163/W211/W219/W220/W230)	1
KL-0326-1314	Pressure/Support Sleeve, Ø 56/48mm (installation W124/W201)	1
KL-0326-1311	Pressure Ring (removal W124/W201)	1

### Scope of Delivery:

#### KL-0326-1000 Press Frame

Part No.	Description	Qty
KL-0326-1001	Press Frame	1
KL-0326-1002 B	Stabilising Bracket	1
KL-0326-1003 B	Cheese Head Screw, M12x20	2

### Scope of Delivery:

#### KL-0326-102 A Hydraulic Press Tool Set without Drive, Suspension Ball Joint

Part No.	Description	Qty
KL-0326-1000	Press Frame	1
KL-0326-112 A	Set of Sleeves (W163/W211/W219/W220/W230)	1

### Scope of Delivery:

#### KL-0326-112 A Sleeve Set, Mercedes W163/W211/W219/W220/W230

Part No.	Description	Qty
KL-0326-1111	Support Ring 1, with O-Ring	1
KL-0326-1211	Support Ring 4, with O-Ring	1
KL-0039-1634	Pressure/Support Sleeve, short, Ø 34mm	1
KL-0039-1642	Pressure/Support Sleeve, short, Ø 42mm	1
KL-0039-1650	Pressure/Support Sleeve, short, Ø 50mm	1
KL-0326-1313 A	Pressure/Support Sleeve, Ø 60/52mm	1

### Scope of Delivery:

#### KL-0326-131 A Sleeve Set, Mercedes W124/W201

Part No.	Description	Qty
KL-0326-1311	Pressure Ring 3, with O-Ring	1
KL-0326-1312	Support Ring 4, with O-Ring	1
KL-0326-1313 A	Pressure/Support Sleeve, Ø 60/52mm	1
KL-0326-1314	Pressure/Support Sleeve, Ø 56/48mm	1

## KL-0326-11 A

### Hydraulic Press Tool Set, Mercedes W163

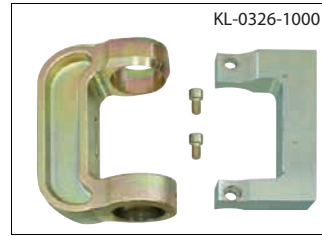
Specifically designed for Mercedes M-Class (W163).

Scope of Delivery: KL-0326-11 A Hydraulic Press Tool Set, Mercedes W163

Part-No.	Description	Qty
KL-0326-111 A	Sleeve Set (W163)	1
KL-0326-1000	Press Frame	1
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0039-1930	Pressure Spindle, M20x350, with O-ring	1

Scope of Delivery: KL-0326-111 A Sleeve Set, Mercedes W163

Part-No.	Description	Qty
KL-0326-1111	Support Ring 1, with O-Ring	1
KL-0039-1642	Pressure/Support Sleeve, short, Ø 42mm	1
KL-0326-1313 A	Pressure/Support Sleeve, Ø 60/52mm	1



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## KL-0326-20

### 4-Pin Lock Nut Socket, Mercedes

Suitable for Mercedes M-Class (W163).

For tightening the suspension ball joint lock nut on the steering knuckle/stub axle.

Technical Data:

Outer diameter:	63mm
Inner diameter:	53mm
Pin width:	7.5mm
Weight:	500g



## KL-0326-12 A

### Hydraulic Press Tool Set, Mercedes W211/W220

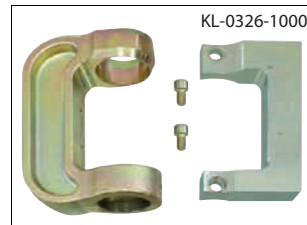
Suitable for Mercedes W211 (E-Class), W219 (CLS), W220 (S-Class), W230 (SL).

Scope of Delivery: KL-0326-12 A Pressing Device with Hydr. Cyl., Mercedes

Part No.	Description	Qty
KL-0326-121 A	Sleeve set (W211/W219/W220/W230)	1
KL-0326-1000	Press frame	1
KL-0040-2500	Hydraulic Cylinder 17 t	1
KL-0039-1930	Pressure spindle M20x350mm with O-ring	1

Scope of Delivery: KL-0326-121 A Sleeve Set, Mercedes W211/W220

Part No.	Description	Qty
KL-0326-1111	Support ring 1 with O-ring	1
KL-0326-1312 A	Support ring 4 with O-ring	1
KL-0039-1634	Press/Support sleeve short Ø 34mm	1
KL-0039-1650	Press/Support sleeve short Ø 50mm	1



## KL-0326-13 A

### Hydraulic Press Tool Set, MB W124/W201

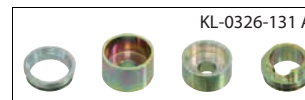
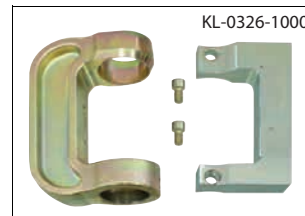
Specifically designed for Mercedes W124, W201 (190 Series).

Scope of Delivery: KL-0326-13 A Hydraulic Press Tool Set, Mercedes W124/W201

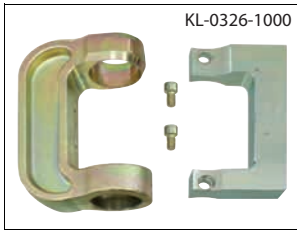
Part No.	Description	Qty
KL-0326-131 A	Sleeve Set, W124/W201	1
KL-0326-1000	Press Frame	1
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0039-1930	Pressure Spindle with O-ring, M20x350	1

Scope of Delivery: KL-0326-131 A Sleeve Set, Mercedes W124/W201

Part No.	Description	Qty
KL-0326-1311	Pressure Ring 3, with O-Ring	1
KL-0326-1312	Support Ring 4, with O-Ring	1
KL-0326-1313 A	Pressure/Support Sleeve, Ø 60/52mm	1
KL-0326-1314	Pressure/Support Sleeve, Ø 56/48mm	1



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KL-0326-1000



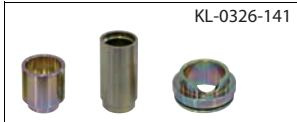
## KL-0326-14

### Hydraulic Press Tool Set, Mercedes

Suitable for Mercedes W211 (E-Class, from 2002 onwards), W219 (CLS), W220 (S-Class) and W230 (SL) front axle.

Scope of Delivery: KL-0326-14 Hydraulic Press Tool Set Mercedes

Part No.	Description	Qty
KL-0326-100 A	Hydraulic Press Frame, Mercedes	1
KL-0326-141	Sleeve Set, W211/W220	1



KL-0326-141

Scope of Delivery: KL-0326-141 Sleeve Set, Mercedes W211/W220

Part No.	Description	Qty
KL-0326-1411	Adaptor Ring 5, with O-Ring	1
KL-0039-1640	Pressure/ Support Sleeve, short, Ø 40/32mm	1
KL-0350-5102	Pressure Sleeve	1



## KL-0326-160 K

### Hydraulic Press Tool Set, without Hydraulic Cylinder, in a Plastic Storage Case

Applicable to: Mercedes W201 (190 Series), W124 (E-Class), W211 (E-Class), W219 (CLS), W220 (S-Class), W230 (SL) and VW T4 (suspension ball joints, front axle) and Mercedes W163 (M-Class) (suspension ball joints, front and rear axle), Mercedes W211 (E-Class), W219 (CLS), W220 (S-Class), W230 (SL) (upper ball joint, front axle).

The KL-0326-160 K hydraulic press tool set is designed to be used in conjunction with a hydraulic pump such as the KL-0215-35 M25 and hydraulic cylinder KL-0040-2500, thus enabling lower and upper ball joints to be pressed into and pressed out of the lower wishbone quickly and without any trouble. Removal and installation of the suspension ball joints can sometimes also be carried out in situ on the vehicle within just a few minutes without the need for dismantling the wishbone.

#### Advantages:

- Enables the quick, easy and professional removal and installation of suspension ball joints.
- This tool set of the GEDORE Automotive Modular System can be further enhanced with additional tools - making it suitable for a wide range of applications.
- All components are available individually as spare parts.

Scope of Delivery:

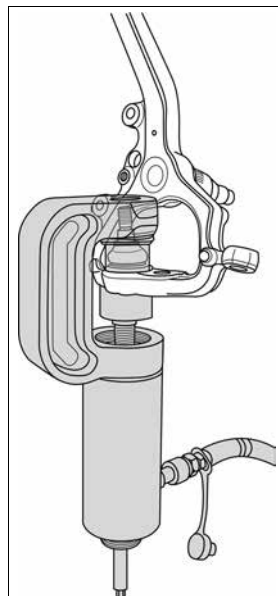
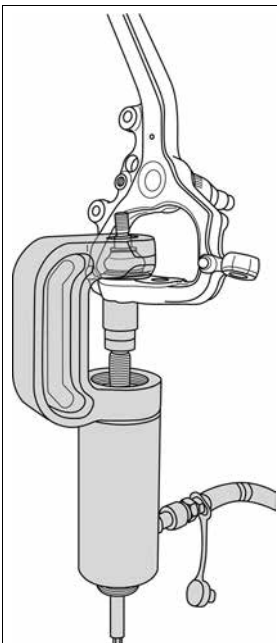
KL-0326-160 K Hydraulic Press Tool Set, without Hydr. Cylinder

Part No.	Description	Qty
KL-0326-160 E	Hydraulic Press Tool Set, without Hydr. Cylinder, in a Foam Insert	1
KL-4999-1393	Plastic Storage Case	1

Scope of Delivery:

KL-0326-160 E Hydraulic Press Tool Set, without Hydr. Cylinder, in a Foam Insert

Part No.	Description	Qty
KL-0326-160	Hydraulic Press Tool Set, without Hydraulic Cylinder	1
KL-4999-1319	Foam Insert	1



KL-0326-160 E



KL-0326-161 E

Scope of Delivery:

KL-0326-161 E Hydraulic Press Tool Set, without Drive, in a Foam Insert

Part No.	Description	Qty
KL-0039-161	Hydraulic Press Tool Set, without Drive	1
KL-4999-1319	Foam Insert	1

## KL-0039-750 (Pat. e.g. US-Patent 7,020,944) Pressing Device with Hydraulic Cylinder, Mercedes Sprinter/VW LT (2D)

**Designed to change suspension ball joints on Mercedes Sprinter (901-904) models from 1995-2006 and on VW LT (2D) models from 1996-2006.**

Used in conjunction with the hydraulic pump **KL-0215-35 M25** or **KL-0215-37 M25**, the pressing device **KL-0039-750** enables the quick and trouble-free pushing out and pressing in of the suspension ball joint on the lower wishbone. Removal and installation of the ball joints can be performed in situ on the vehicle within a just few minutes, without having to dismantle the wishbone.

**Note:**  
Mercedes Sprinter and VW LT are fitted with two different wishbones with two different suspension ball joints.

**Scope of Delivery: KL-0039-750 Pressing Device with Hydraulic Cylinder, Mercedes Sprinter/VW LT (2D)**

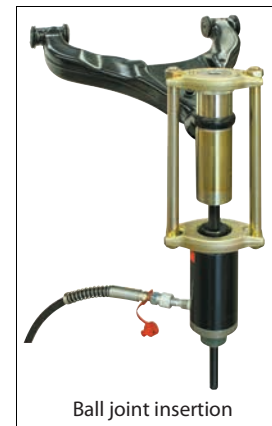
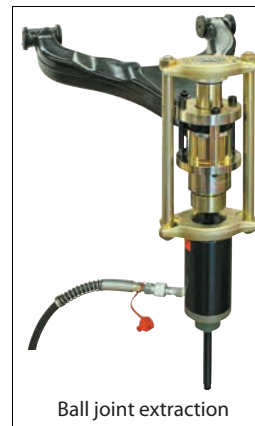
Part-No.	Description	Qty
KL-0039-7500	Pressing Device without Hydraulic Cylinder, Mercedes Sprinter	1
KL-0040-2500	Hydraulic Cylinder (17t)	1

**Scope of Delivery: KL-0039-7500 Pressing Device without Hydraulic Cylinder, Mercedes Sprinter/VW LT (2D)**

Part No.	Description	Qty
KL-0039-7503	Sleeve Set, Mercedes Sprinter	1
KL-0039-1140	Press Frame, (lightweight, short)	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1930	Pressure Spindle, M20x350, with O-Ring	1

**Scope of Delivery:**  
**KL-0039-7503 Sleeve Set, Mercedes Sprinter/VW LT (2D)**

Part No.	Description	Qty
KL-0039-1823	Support Sleeves with Clamping Disc for Mercedes Sprinter	1
KL-0039-1662	Pressure/Support Sleeve, short, Ø 62mm	1
KL-0039-1762	Pressure/Support Sleeve, long, Ø 62mm	1
KL-0039-1824	Pressure Sleeve	1



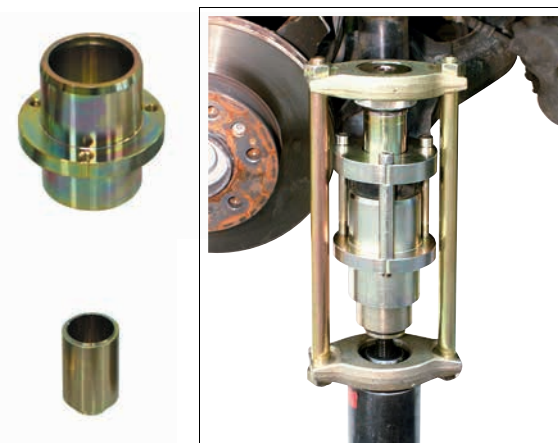
## KL-0039-7535 (Pat. e.g. US-Patent 7,020,944) Upgrade Kit for KL-0039-750, MB Sprinter (W906)/VW Crafter (2E/2F)

**Suitable for Mercedes Sprinter (W906) from 2006 onwards and VW Crafter (2E/2F) from 2006 onwards, suspension ball joints on the front lower wishbone.**

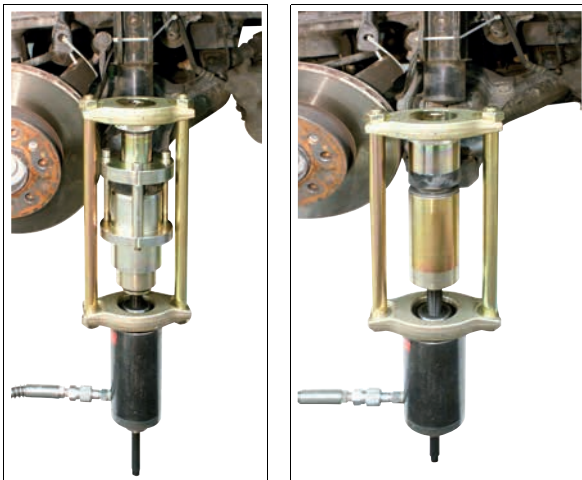
The upgrade kit **KL-0039-7535** enables the pressing device **KL-0039-750** also to be used on Mercedes Sprinter (W906) models from 2006 onwards and VW Crafter (2E/2F) models from 2006 onwards.

**Scope of Delivery:**  
**KL-0039-7535 Upgrade Kit for KL-0039-750, Mercedes Sprinter /VW Crafter**

Part No.	Description	Qty
KL-0039-1828-1	Support Sleeve for Shoulder Ø 60mm	1
KL-0039-1829	Pressure Sleeve	1







## KL-0039-753

(Patented)

### Pressing Device with Hydraulic Cylinder, Mercedes Sprinter (W906)/ VW Crafter (2E/2F)

**Suitable for Mercedes Sprinter (W906) from 2006 onwards and VW Crafter (2E/2F) from 2006 onwards, suspension ball joint on the front lower wishbone.**

Used in conjunction with hydraulic pump **KL-0215-35 M25** or **KL-0215-37 M25**, the **KL-0039-753** pressing device, enables suspension ball joints to be pressed into and pressed out from the lower wishbone quickly and without any trouble. Removal and installation of the suspension ball joints can be carried out in situ on the vehicle.

**Scope of Delivery:**

**KL-0039-753 Pressing Device with Hydraulic Cylinder, Mercedes Sprinter (W906)/VW Crafter (2E/2F)**

Part No.	Description	Qty
KL-0039-7530	Pressing Device without Hydraulic Cylinder, MB Sprinter	1
KL-0040-2500	Hydraulic Cylinder (17t)	1

**Scope of Delivery:**

**KL-0039-7530 Pressing Device without Hydraulic Cylinder, Mercedes Sprinter (W906)/VW Crafter (2E/2F)**

Part No.	Description	Qty
KL-0039-7533	Sleeve Set, Mercedes Sprinter (W906)/VW Crafter (2E/2F)	1
KL-0039-1140	Press Frame, lightweight, short	1
KL-0039-1002	Retaining Adaptor for Clamping Nut and Pressure Spindle	1
KL-0039-1930	Pressure Spindle, M20x350mm	1

**Scope of Delivery:**

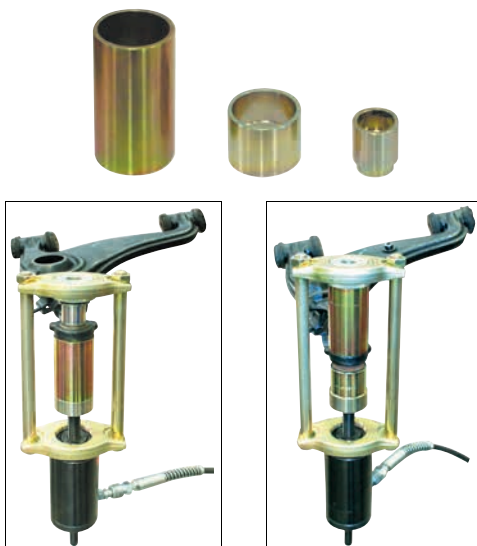
**KL-0039-7533 Sleeve Set, Mercedes Sprinter, (W906)/VW Crafter (2E/2F)**

Part No.	Description	Qty
KL-0039-7534	Support Sleeve with Clamping Washer	1
KL-0039-1829	Pressure Sleeve	1
KL-0039-1762	Pressure Sleeve, Ø 62mm, long	1
KL-0039-1662	Support Sleeve, Ø 62mm, short	1

**Scope of Delivery:**

**KL-0039-7534 Support Sleeve with Clamping Washer, Mercedes Sprinter (W906)/VW Crafter (2E/2F)**

Part No.	Description	Qty
KL-0039-1823-3	Clamping Washer	1
KL-0039-1828-1	Support Sleeve for Shoulder Ø 60mm	1
KL-0039-1823-4	Cheese Head Screw, M10x120mm	1
KL-0039-1823-5	Spacer Tube	1



## KL-0039-7523

### Sleeve Set, Mercedes 190 Series (W201), W124, W129

**Suitable for the Mercedes 190 Series (W201), W124 and W129, suspension ball joint at the front lower wishbone.**

Used in conjunction with a hydraulic drive, the **KL-0039-7523** sleeve set enables a suspension ball joint to be pressed into and pressed out of the lower wishbone quickly and with ease. Removal and installation of the specified ball joint can be carried out in situ on the vehicle within just a few minutes, without the need for dismantling the wishbone.

**Scope of Delivery:**

**KL-0039-7523 Sleeve Set, Mercedes 190 Series (W201), W124, W129**

Part-No.	Description	Qty
KL-0039-1636	Pressure/Support Sleeve, short, Ø 36mm	1
KL-0039-1658	Pressure/Support Sleeve, short, Ø 58mm	1
KL-0039-1760	Pressure/Support Sleeve, long, Ø 60mm	1

## KL-0039-710 Pressing Device with Hydraulic Cylinder

**Suitable for Renault Master II (1998 onwards) and Opel Movano I (1998 onwards), front axle.**

Used in conjunction with the hydraulic pump **KL-0215-35 M25** or **KL-0215-37 M25**, the pressing device **KL-0039-710** allows for the quick, professional and safe removal and installation of the suspension ball joints on the front upper and lower wishbone.

This tool enables even heavily corroded/seized ball joints to be pushed out and replaced within just a few minutes. The removal of the upper or lower wishbone is not necessary.

### Advantages:

- Substantial time savings of approx. 1-2 hours
- Quick and professional removal/installation of the suspension ball joints
- Hydraulic Cylinder (17t) **KL-0040-2500** can universally be used on other GEDORE Automotive tools to exert pulling or pushing force.

### Scope of Delivery: KL-0039-710 Pressing Device with Hydraulic Cylinder

Part-No.	Description	Qty
<b>KL-0039-7100</b>	<b>Pressing Device without Hydraulic Cylinder</b>	<b>1</b>
KL-0040-2500	Hydraulic Cylinder (17t)	1

### Scope of Delivery: KL-0039-7100 Pressing Device without Hydraulic Cylinder

Part No.	Description	Qty
KL-0039-1140	Press Frame (lightweight, short)	1
KL-0039-1930	Pressure Spindle, M20x350, with O-Ring	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
<b>KL-0039-712</b>	<b>Sleeve Set, Renault Master II/Vauxhall/Opel Movano I</b>	<b>1</b>

### Scope of Delivery: KL-0039-712 Sleeve Set, Renault Master II; Opel/Vauxhall Movano I

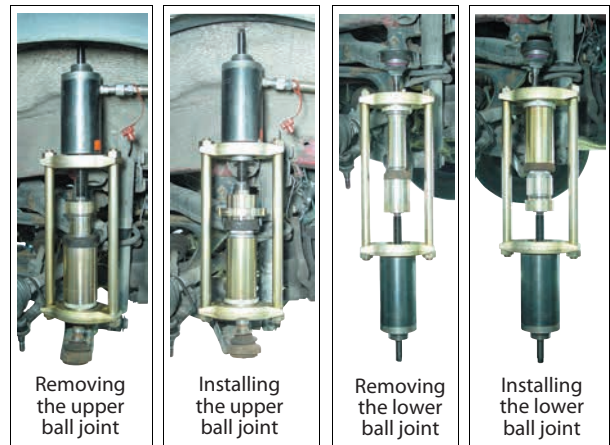
Part-No.	Description	Qty
<b>KL-0039-722</b>	<b>Sleeve Set, Renault Master, Upper Suspension Ball Joint</b>	<b>1</b>
<b>KL-0039-732</b>	<b>Sleeve Set, Renault Master, Lower Suspension Ball Joint</b>	<b>1</b>

### Scope of Delivery: KL-0039-722 Sleeve Set, Upper Suspension Ball Joint

Part No.	Description	Qty
KL-0039-1644	Pressure/Support Sleeve, short, Ø 44mm	1
KL-0039-1764	Pressure/Support Sleeve, long, Ø 64mm	1
KL-0039-1820	Support Sleeve for Renault Master	1
KL-0039-1758	Pressure/Support Sleeve, long, Ø 58mm	1

### Scope of Delivery: KL-0039-732 Sleeve Set, Lower Suspension Ball Joint

Part-No.	Description	Qty
KL-0039-1821	Pressure/Support Sleeve	1
KL-0039-1658	Pressure/Support Sleeve, short, Ø 58mm	1
KL-0039-1652	Pressure/Support Sleeve, short, Ø 52mm	1
KL-0039-1822	Pressure/Support Sleeve	1



## KL-0711-11 L Pressing Device with Hydraulic Cylinder

**Designed for Volvo S40/V40, front axle wishbone.**

Allows for the quick and easy removal and replacement of suspension ball joints. The ball joints can be removed and installed in situ on the vehicle within just a few minutes, without having to dismount the wishbone. This tool enables even heavily corroded/seized ball joints to be pushed out and replaced quickly and without any trouble.

### Scope of Delivery: KL-0711-11 L Pressing Device with Hydr. Cyl., Volvo S40/V40

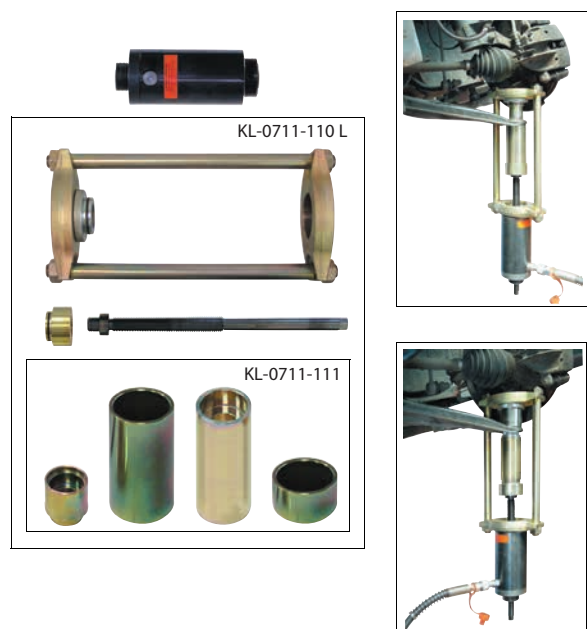
Part No.	Description	Qty
<b>KL-0711-110 L</b>	<b>Pressing Device without Hydraulic Cylinder, Volvo S40/V40</b>	<b>1</b>
KL-0040-2500	Hydraulic Cylinder, 17t	1

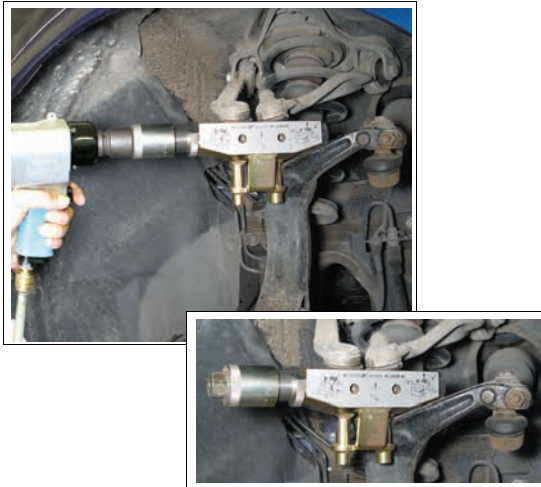
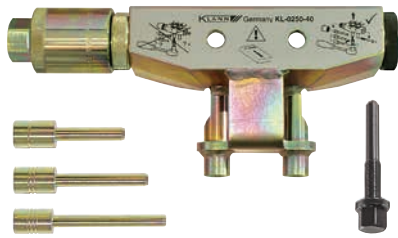
### Scope of Delivery: KL-0711-110 L Pressing Device without Hydr. Cyl., Volvo S40/V40

Part No.	Description	Qty
KL-0039-1140	Press Frame, short	1
<b>KL-0711-111</b>	<b>Sleeve Set, Volvo S40/V40</b>	<b>1</b>
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1930	Pressure Spindle, M20x350mm, with O-Ring	1

### Scope of Delivery: KL-0711-111 Set of Sleeves, Volvo S40/V40

Part No.	Description	Qty
KL-0711-1111	Pressure/Support Sleeve, short, Ø 38mm	1
KL-0039-1754	Pressure/Support Sleeve, long, Ø 54mm	1
KL-0039-1750	Pressure/Support Sleeve, long, Ø 50mm	1
KL-0039-1654	Pressure/Support Sleeve, short, Ø 54mm	1





**Scope of Delivery:**

**KL-0250-40 Extractor for Clamping Bolt and Ball Joint, Audi A4/VW Passat**

Part No.	Description	Qty
KL-0250-4001	Tool Body	1
KL-0250-4002	Thread Adaptor (with large bore)	1
KL-0250-4005	Pressure Screw, M10x1.25x95mm	1
KL-0250-4011	Housing	1
KL-0250-4012	Pressure Drift I (Length 78mm)	1
KL-0250-4013	Nut	1
KL-0250-4014	Pressure Drift II (Length 98mm)	1
KL-0250-4015	Pressure Drift III (Length 118mm)	1

## KL-0250-40

(Pat. e.g. US-Patent 6,546,610)

### Extractor for Clamping Bolt and Ball Joint, Audi A4/VW Passat

**Suitable for Audi A4 (until 2000)/VW Passat front axle (until 2005). Designed to remove the upper wishbone pivot pin from the steering knuckle clamping bore.**

Removing the upper clamping bolt and the two pivot pins from the steering knuckle has always presented mechanics and technicians with problems, especially when components are heavily corroded/seized in place. Not only is the usual technique using hammer, welding torch, angle grinder and drift time-consuming and arduous, but there is also a risk of damaging steering knuckles, pivot pins and wishbone struts.

**The KL-0250-40 extractor with its proper pressure unit enables the quick and professional extraction of the hex clamping bolt and pivot pins. The tool is suitable for both right-hand and left-hand wheel suspensions.**

**Example of use:**

- Mount tool with pressure unit to steering knuckle (with pressure drift I inserted).
- Drive hex nut by means of an impact wrench and push back the hex clamping bolt. The loosening process takes place with a loud noise.
- Extract hex clamping bolt with the pressure unit in 3 working stages. For this, insert the pressure drifts II + III one after another.
- Pull out hex clamping bolt completely. In case it is still not possible to extract the entire hex clamping bolt, use the supplement pressure drift set **KL-0250-402** to press it out completely.
- Remove hex nut. Completely remove pressure drift so that the clamping bore is clear.
- Using the pressure spindle, push out both pivot pins from the clamping bore.

**Advantages:**

- High cost savings.
- Substantial time savings of approximately 2-3 hours.
- No risk of damage to suspension components.

**Technical Data:**

Weight:	2.4kg
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## KL-0250-402

### Upgrade Pressure Drift Set

Used to press the hex clamping bolt completely out of the clamping bore.

**Scope of Delivery: KL-0250-402 Upgrade Pressure Drift Set**

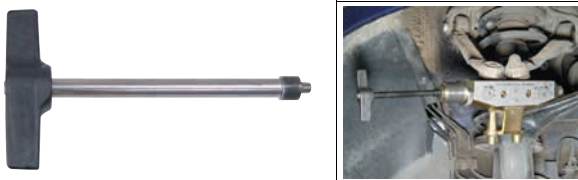
Part No.	Description	Qty
KL-0250-4016	Pressure Drift IV (Length 138mm)	1
KL-0250-4017	Pressure Drift V (Length 158mm)	1
KL-0250-4018	Pressure Drift VI (Length 178mm)	1



## KL-0250-403

### Pressure Drift Puller

The pressure drift puller **KL-0250-403** enables pressure drifts to be pulled out of the tool body.



## KL-0250-41 KA

### Extractor with Extraction Device for Clamping Bolt, Audi A4/A6

**Suitable for Audi A4 (8E) and A6 (2004 onwards). Essential tool for the professional extraction of the upper wishbone pivot pin clamping bolt from the steering knuckle clamping bore.**

The extractor **KL-0250-41 KA** with its proper pressure unit and extraction device, enables the quick and professional extraction of hex clamping bolts. The extraction device is used to pull out the loosened hex clamping bolt.

The tool is suitable for both right-hand and left-hand wheel suspensions.

#### Example of use:

- Mount extractor with pressure unit and fixing unit to steering knuckle.
- Screw in the hex nut of the pressure unit using special socket (24mm waf) and a 1/2" impact wrench. The hex clamping bolt is pressed out. The loosening process takes place with a loud noise.
- Remove extractor. Mount extraction device to extract the loosened clamping bolt.
- Screw in the hex nut of the extraction device using the special socket (24mm waf) and remove the hex clamping bolt completely.

#### Advantages:

- High cost savings.
- Substantial time savings of approximately 2-3 hours.
- No risk of damage to suspension components.

#### Scope of Delivery:

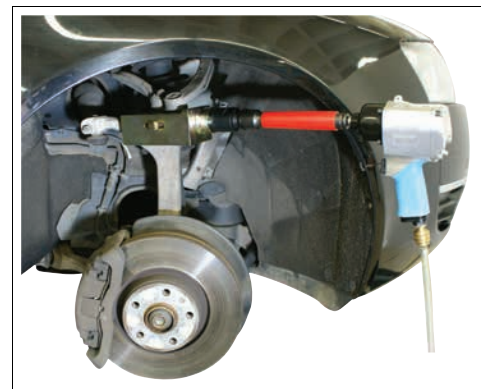
**KL-0250-41 KA Extractor with Extraction Device for Clamping Bolt Audi A4 / A6**

Part No.	Description	Qty
KL-0250-410	Extractor for Clamping Bolt	1
KL-0250-416	Extraction Device for Clamping Bolt, Size 16mm	1
KL-0250-417	Upgrade Kit, Audi A6	1
KL-0250-4190	Plastic Storage Case	1



#### Technical Data:

Weight:	8.2kg
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## KL-0250-42

### Pivot Pin Removal Tool

**Suitable for Audi A4 (2001 onwards) and Audi A6 (2004 onwards).**

This tool is designed to punch out pivot pins from wishbone struts.



## KL-0250-43 K

### Drill-Out Tool Kit for Strut Bolts, Audi

**Applicable to Audi A4 (8E, 8H, 8K); A5 (8T); A6 (4B, 4G, 4F); Q5 (8R), A7 (4GA, 4GF), A8 (4D) and Seat Exeo (3R2, 3R5) with aluminium steering knuckle.**

The **KL-0250-43 K** drill-out tool kit allows the user to professionally drill out upper strut clamping bolts as found on aluminium steering knuckles. An indispensable tool kit when clamping bolts are a tight fit or seized in place. When drilling out strut bolts on steering knuckles with low-mounted steering gear, the steering knuckle needs to be locked in fully turned position by means of the clamping device that comes with the kit. This will prevent damage to the mudguard. The use of this tool kit eliminates the need for cost-intensive replacement of the complete steering knuckle with wheel bearing unit.



**Patented**

☑ High-quality product made in Germany.

☑ Forks are removable by a 90° rotation and feature a T-bolt locking mechanism.

☑ All components are available individually as spare parts.

Interchangeable forks enable quick and easy adjustment to the required ball joint head size.

Pressure spindle and ball socket are replaceable and can be inserted from the top or from the bottom.

Dimension "c" can be reduced by reversing the pressure lever!

Extended T-adjusting spindle and pressure spindle for enlarging the dimension "c" are available as accessories.

c = 65mm  
(at size 1 and 2)

☑ Forged pressure lever and fork.

☑ Pressure spindle driven by a 19mm hexagon and provided with a safety shoulder to prevent spanner from slipping.

☑ Infinitely adjustable to the required pivot pin height.

## Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



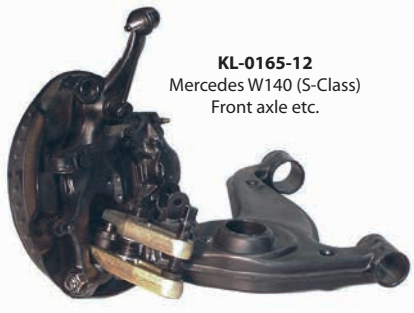
DMK 200 CODE:2641240 - Torque Wrench Dremaster 40-200Nm

☑ A wide range of forks for the most different kinds of ball joint connections is available as accessories.

KL-0165-Series Ball Joint Extractors

(Pat.)

2



**KL-0165-12**  
Mercedes W140 (S-Class)  
Front axle etc.



**KL-0165-14**  
Audi A4 / VW Passat  
Upper ball joint



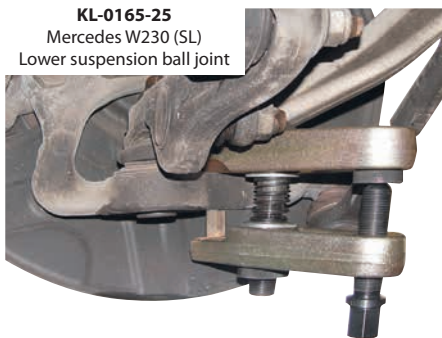
**KL-0165-14**  
VW T4  
Track rod joint



**KL-0165-20**  
Mercedes W202 (C-Class)  
Track rod joint etc.



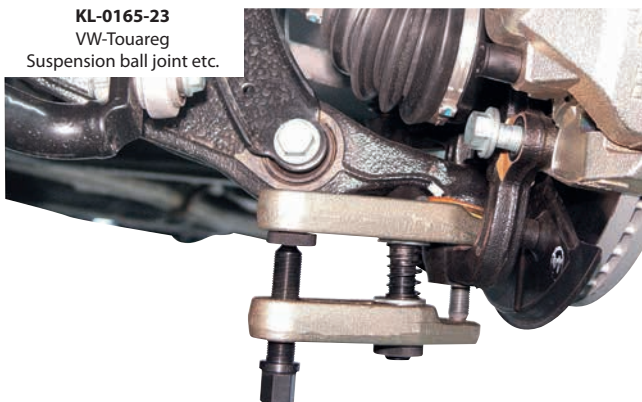
**KL-0165-22**  
VW-Touareg  
Track rod joint etc.



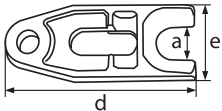
**KL-0165-25**  
Mercedes W230 (SL)  
Lower suspension ball joint



**KL-0165-23**  
Mercedes G-Model  
Steering box reversing lever etc.



**KL-0165-23**  
VW-Touareg  
Suspension ball joint etc.



## KL-0165-0 K (Pat. e.g. US-Patent 5,906,034) Ball Joint Extractor Set (Size 1)

Suitable for passenger cars and vans, e.g.

- with fork KL-0165-1201 for: Mercedes S-Class (W220) and W140 upper/lower ball joint, front axle; VW Golf (IV) track rod ball joint etc.
- with fork KL-0165 1401 for: Audi A4; VW Passat; Škoda Superb upper ball joint; VW T4 track rod ball joint etc.

An essential tool set for VW-Audi, Seat, Škoda, Mercedes, Opel/Vauxhall.

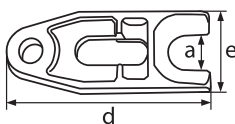
An indispensable tool set for the quick and easy separation of ball joint connections in suspension and steering systems. The ever-increasing number of different ball joints used in today's vehicle suspension and steering systems has led to the need for an ever-widening range of ball joint extractors for separating ball joint connections from steering knuckles/stub axles and steering arms. This is mainly due to the different diameters and sizes of the ball joints. In addition, ball joints with conical pivot pins require increased stability and strength of the ball joint extractors to achieve easy separation. When separating ball joint connections, it is decisive that the angle and the correct pressure point for the separation can be adjusted on the extractor. With the **KL-0165-0 K** ball joint extractor set, GEDORE Automotive offers technicians and mechanics a tool with high stability and universal application possibilities. The extractor can easily be adjusted to the respective ball joint diameter and pivot pin height - simply by changing the forks.

### Technical Data:

Weight:	6.5kg
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### Scope of Delivery: KL-0165-0 K Ball Joint Extractor Set, Size 1

Part No.	Description	Qty
KL-0165-100	Base Tool without Fork (Spindle M18x1.5)	1
KL-0165-1001	Fork - a=20mm - e=50mm - d=165mm	1
KL-0165-1101	Fork - a=22mm - e=50mm - d=165mm	1
KL-0165-1201	Fork - a=24mm - e=50mm - d=165mm	1
KL-0165-1301	Fork - a=27mm - e=50mm - d=165mm	1
KL-0165-1401	Fork - a=30mm - e=50mm - d=165mm	1
KL-0165-1090	Plastic Storage Case	1



## KL-0165-1 (Pat. e.g. US-Patent 5,906,034) Ball Joint Extractor Set, Size 1 and 2

For passenger cars and vans / light commercial vehicles. (size 1 and size 2).

An indispensable tool set for the quick and easy separation of ball joint connections in suspension and steering systems. The ever-increasing number of different ball joints used in today's vehicle suspension and steering systems has led to the need for an ever-widening range of ball joint extractors for separating ball joint connections from steering knuckles/stub axles and steering arms. This is mainly due to the different diameters and sizes of the ball joints. In addition, ball joints with conical pivot pins require extractors featuring extremely high stability and strength in order to achieve easy separation. When separating ball joint connections, it is decisive that the angle and the correct pressure point for the separation can be adjusted on the extractor. With the **KL-0165-1** ball joint extractor set, GEDORE Automotive offers service technicians and mechanics a tool with high stability and universal application possibilities. The extractor can easily be adjusted to the respective ball joint diameter and pivot pin height - simply by changing the forks.

### Technical Data:

Weight:	10.5kg
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### Scope of Delivery: KL-0165-1 Ball Joint Extractor Set

Part No.	Description	Qty
KL-0165-100	Base Tool without Fork (Spindle M18x1.5)	1
KL-0165-1001	Fork - a=20mm - e=50mm - d=165mm	1
KL-0165-1101	Fork - a=22mm - e=50mm - d=165mm	1
KL-0165-1201	Fork - a=24mm - e=50mm - d=165mm	1
KL-0165-1301	Fork - a=27mm - e=50mm - d=165mm	1
KL-0165-1401	Fork - a=30mm - e=50mm - d=165mm	1
KL-0165-2001	Fork - a=22mm - e=60mm - d=165mm	1
KL-0165-2101	Fork - a=24mm - e=60mm - d=165mm	1
KL-0165-2201	Fork - a=26mm - e=60mm - d=165mm	1
KL-0165-2301	Fork - a=30mm - e=60mm - d=165mm	1
KL-0165-1090	Plastic Storage Case	1

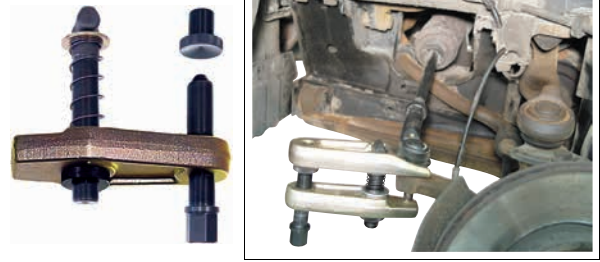
## KL-0165-100

### Base Tool without Fork

The base tool **KL-0165-100** used with a fork (size 1), for example the **KL-0165-1201**, is designed for the separation of ball joint connections in suspension and steering systems.

**Scope of Delivery: KL-0165-100 Base Tool without Fork**

Part No.	Description	Qty
KL-0165-1002	Pressure Lever	1
KL-0165-1003	Adjusting T-Spindle, M18x1.5x110 mm	1
KL-0165-1004	Pressure Spindle, M18x1.5x70 mm	1
KL-0165-1005	Thrust Piece	1
KL-0165-1006	Knurled Nut, M18x1.5	1
KL-0165-1007	Spring	1
KL-0165-1008	Plain Washer, Ø 18mm	1



## KL-0165-10 (Pat. e.g. US-Patent 5,906,034)

### Ball Joint Extractor, Size 1

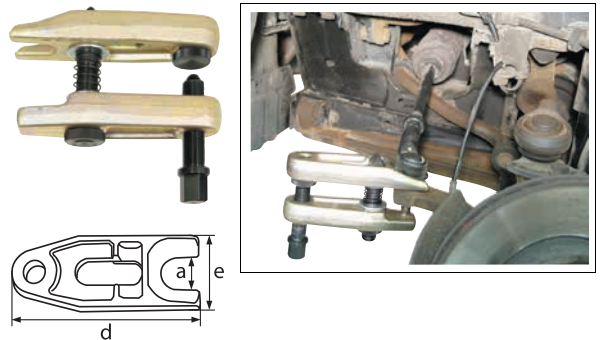
**Universal application.**

**Ideal for Audi A6 Avant (4A), Golf (IV) track rod ball joint and Peugeot 307 (2.0 HDI, 136bhp, model 2006) lower suspension ball joint. (Fork opening a=20mm)**

The ball joint extractor **KL-0165-10** is the ideal tool for separating ball joint connections in suspension and steering systems.

**Scope of Delivery: KL-0165-10 Ball Joint Extractor, Size 1**

Part No.	Description	Qty
KL-0165-100	Base Tool without Fork (Spindle M18x1.5)	1
KL-0165-1001	Fork - a=20mm - e=50mm - d=165mm	1



## KL-0165-11 (Pat. e.g. US-Patent 5,906,034)

### Ball Joint Extractor, Size 1

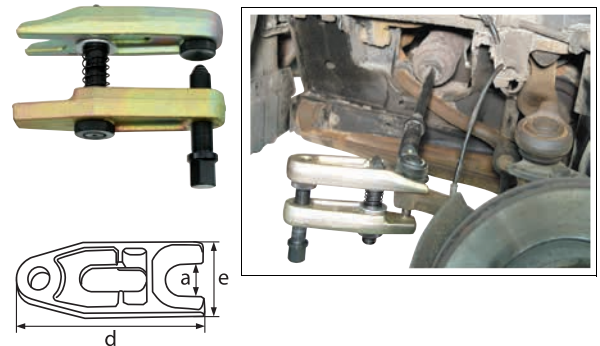
**Universal application.**

**Ideal for Mercedes A-Class (W168) track rod ball joint etc. (Fork opening a=22mm)**

The ball joint extractor **KL-0165-11** is the ideal tool for separating ball joint connections in suspension and steering systems.

**Scope of Delivery: KL-0165-11 Ball Joint Extractor, Size 1**

Part No.	Description	Qty
KL-0165-100	Base Tool without Fork (Spindle M18x1.5)	1
KL-0165-1101	Fork - a=22mm - e=50mm - d=165mm	1



## KL-0165-12 (Pat. e.g. US-Patent 5,906,034)

### Ball Joint Extractor, Size 1

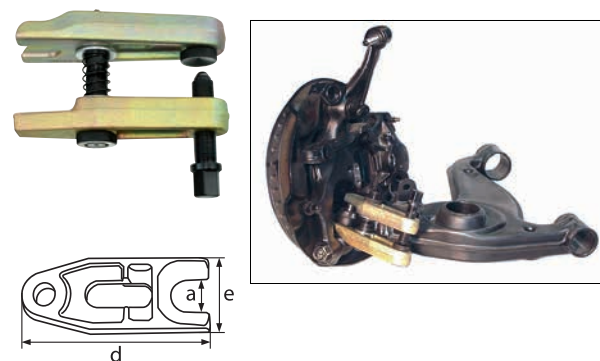
**Universal application. (Fork opening a=24mm)**

**Ideal for Mercedes S-Class (W220), W140, front axle suspension lower/upper ball joints, VW Golf (IV) track rod ball joints etc.**

The ball joint extractor **KL-0165-12** is the ideal tool for separating ball joint connections in suspension and steering systems.

**Scope of Delivery: KL-0165-12 Ball Joint Extractor, Size 1**

Part No.	Description	Qty
KL-0165-100	Base Tool without Fork (Spindle M18x1.5)	1
KL-0165-1201	Fork - a=24mm - e=50mm - d=165mm	1



**Accessories (on demand):** 1993 U-20 CODE:1436686 - Reversible ratchet



DMK 200 CODE:2641240 - Torque Wrench Dremaster 40-200Nm





2



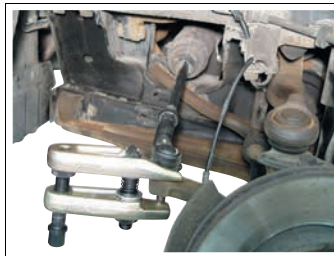
## KL-0165-13 (Pat. e.g. US-Patent 5,906,034) Ball Joint Extractor, Size 1

**Universal application.**  
**Ideal for VW LT, Mercedes Sprinter (906) track rod etc.**  
**(Fork opening a=27mm)**

The ball joint extractor **KL-0165-13** is the ideal tool for separating ball joint connections in suspension and steering systems.

**Scope of Delivery: KL-0165-13 Ball Joint Extractor, Size 1**

Part No.	Description	Qty
KL-0165-100	Base Tool without Fork (Spindle M18x1.5)	1
KL-0165-1301	Fork - a=27mm - e=50mm - d=165mm	1



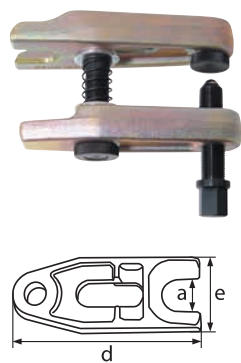
## KL-0165-14 (Pat. e.g. US-Patent 5,906,034) Ball Joint Extractor, Size 1

**Universal application.**  
**Ideal for Audi A4; VW Passat; Škoda Superb upper ball joint, VW T4 track rod ball joint etc.**  
**(Fork opening a=30mm)**

The ball joint extractor **KL-0165-14** is the ideal tool for separating ball joint connections in suspension and steering systems.

**Scope of Delivery: KL-0165-14 Ball Joint Extractor, Size 1**

Part No.	Description	Qty
KL-0165-100	Base Tool without Fork (Spindle M18x1.5)	1
KL-0165-1401	Fork - a=30mm - e=50mm - d=165mm	1



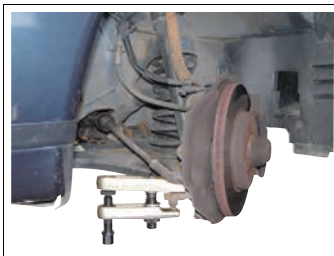
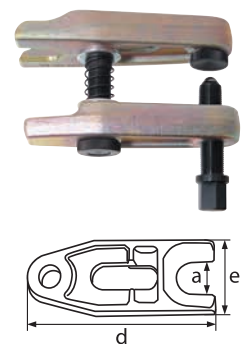
## KL-0165-20 (Pat. e.g. US-Patent 5,906,034) Ball Joint Extractor, Size 2

**Universal application.**  
**Ideal for Mercedes M-Class (W163), E-Class (W211), W220 (S-Class), upper ball joint SLK (W170), C-Class (W202), S-Class (W220), track rod etc.**  
**(Fork opening a=22mm)**

The ball joint extractor **KL-0165-20** is the ideal tool for separating ball joint connections in suspension and steering systems.

**Scope of Delivery: KL-0165-20 Ball Joint Extractor, Size 2**

Part No.	Description	Qty
KL-0165-100	Base Tool without Fork (Spindle M18x1.5)	1
KL-0165-2001	Fork - a=22mm - e=60mm - d=165mm	1



## KL-0165-21 (Pat. e.g. US-Patent 5,906,034) Ball Joint Extractor, Size 2

**Universal application.**  
**(Fork opening a=24mm)**

The ball joint extractor **KL-0165-21** is the ideal tool for separating ball joint connections in suspension and steering systems.

**Scope of Delivery: KL-0165-21 Ball Joint Extractor, Size 2**

Part No.	Description	Qty
KL-0165-100	Base Tool without Fork (Spindle M18x1.5)	1
KL-0165-2101	Fork - a=24mm - e=60mm - d=165mm	1

**Accessories (on demand):**

**1993 U-20 CODE:1436686 - Reversible ratchet**



**DMK 200 CODE:2641240 - Torque Wrench Dremaster 40-200Nm**



## KL-0165-22 (Pat. e.g. US-Patent 5,906,034) Ball Joint Extractor, Size 2

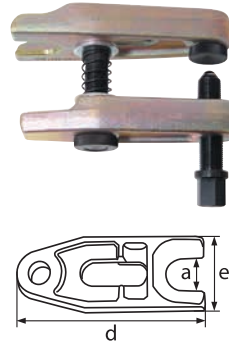
**Universal application.**

**Ideal for VW Touareg; Porsche Cayenne track rod and upper ball joint, Mercedes E-Class (W210), Sprinter track rod ball joint, Ford Transit track rod joint, VW Golf (IV) lower suspension ball joint etc.**  
(Fork opening a=26mm)

The ball joint extractor **KL-0165-22** is the ideal tool for separating ball joint connections in suspension and steering systems.

**Scope of Delivery: KL-0165-22 Ball Joint Extractor, Size 2**

Part No.	Description	Qty
KL-0165-100	Base Tool without Fork (Spindle M18x1.5)	1
KL-0165-2201	Fork - a=26mm - e=60mm - d=165mm	1



## KL-0165-23 (Pat. e.g. US-Patent 5,906,034) Ball Joint Extractor, Size 2

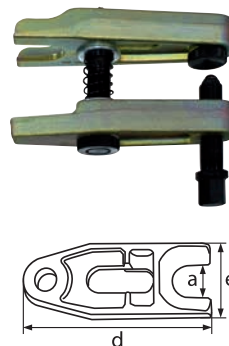
**Universal application.**

**Ideal for VW Touareg; Porsche Cayenne suspension ball joint, VW T4/T5 lower suspension ball joint, Mercedes G-Model track rod ball joint and steering box reversing lever, Ford Transit lower suspension ball joint**  
(Fork opening a=30mm)

The ball joint extractor **KL-0165-23** is the ideal tool for separating ball joint connections in suspension and steering systems.

**Scope of Delivery: KL-0165-23 Ball Joint Extractor, Size 2**

Part No.	Description	Qty
KL-0165-100	Base Tool without Fork (Spindle M18x1.5)	1
KL-0165-2301	Fork - a=30mm - e=60mm - d=165mm	1



## KL-0165-24 (Pat. e.g. US-Patent 5,906,034) Ball Joint Extractor, Size 2

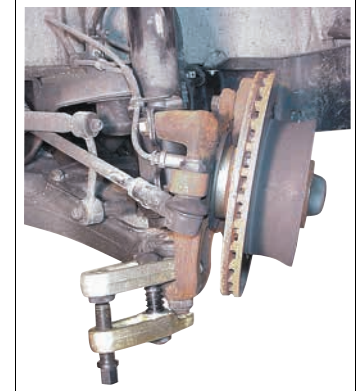
**Universal application.**

(Fork opening a=34mm)

The ball joint extractor **KL-0165-24** is the ideal tool for separating ball joint connections in suspension and steering systems.

**Scope of Delivery: KL-0165-24 Ball Joint Extractor, Size 2**

Part No.	Description	Qty
KL-0165-100	Base Tool without Fork (Spindle M18x1.5)	1
KL-0165-2401	Fork - a=34mm - e=60mm - d=165mm	1



## KL-0165-25 (Pat. e.g. US-Patent 5,906,034) Ball Joint Extractor, Size 2

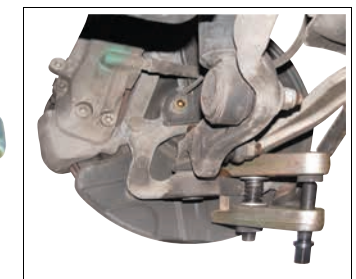
**Universal application.**

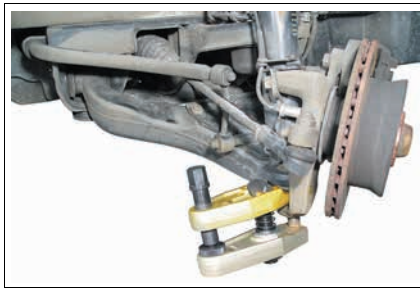
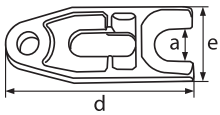
**Ideal for Mercedes E-Class (W211), CLS (W219), S-Class (W220) and SL (W230) lower suspension ball joint etc.**  
(Fork opening a=24mm)

The ball joint extractor **KL-0165-25** is the ideal tool for separating ball joint connections in suspension and steering systems.

**Scope of Delivery: KL-0165-25 Ball Joint Extractor, Size 2**

Part No.	Description	Qty
KL-0165-100	Base Tool without Fork (Spindle M18x1.5)	1
KL-0165-2501	Fork - a=24mm - e=60mm - d=165mm	1





**KL-0165-3 A**  
**Ball Joint Extractor Set (with 6 forks)** (not shown)  
Like the **KL-0165-3 KA** however, without Storage case.

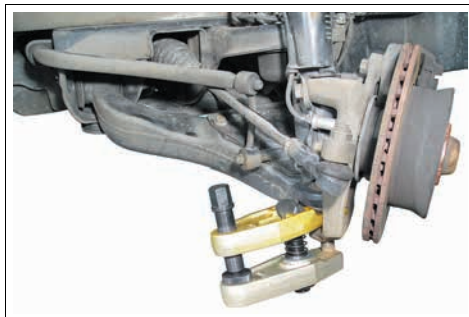
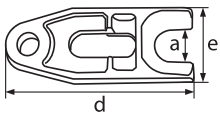
## KL-0165-3 KA (Pat. e.g. US-Patent 5,906,034) Ball Joint Extractor Set (with 6 Forks)

**Universally suitable for HGV and light commercial vehicles/vans etc.**

An indispensable tool set for the quick and easy separation of ball joint connections in suspension and steering systems. The ever-increasing number of different ball joints used in today's vehicle suspension and steering systems has led to the need for an ever-widening range of ball joint extractors for separating ball joint connections from steering knuckles/stub axles and steering arms. This is mainly due to the different diameters and sizes of the ball joints. In addition, ball joints with conical pivot pins require extractors featuring extremely high stability and strength in order to achieve easy separation. When separating ball joint connections, it is decisive that the angle and the correct pressure point for the separation can be adjusted on the extractor. With the **KL-0165-3 KA** ball joint extractor set, GEDORE Automotive offers service technicians and mechanics a tool with high stability and universal application possibilities. The extractor can easily be adjusted to the respective ball joint diameter and pivot pin height - simply by changing the forks.

**Scope of Delivery: KL-0165-3 KA Ball Joint Extractor Set (with 6 Forks)**

Part No.	Description	Qty
KL-0165-300	Base Tool without Fork (Spindle M24x1.5)	1
KL-0165-3001	Fork a=30mm, e=80mm, d=200mm - e.g. suitable for Landini Tractors	1
KL-0165-3101	Fork a=34mm, e=80mm, d=200mm	1
KL-0165-3201	Fork a=40mm, e=80mm, d=200mm - e.g. suitable for Mercedes, MAN, Scania, Volvo, etc.	1
KL-0165-3301	Fork a=42mm, e=80mm, d=200mm - e.g. suitable for Mercedes, MAN, Scania, Volvo, etc. and John Deere-Tractors	1
KL-0165-3401	Fork a=47mm, e=80mm, d=200mm	1
KL-0165-3501	Fork a=33mm, e=80mm, d=200mm - e.g. suitable for suspension ball joints MB Sprinter (1995 onwards) and VW LT (1998 onwards), upper ball joint VW T4 etc.	1
KL-0165-3090 A	Plastic Storage Case	1



**KL-0165-3**  
**Ball Joint Extractor Set** (not shown)  
Like the **KL-0165-3 K** however, without Storage case.

## KL-0165-3 K (Pat. e.g. US-Patent 5,906,034) Ball Joint Extractor Set (with 5 Forks)

**Suitable for Mercedes HGV etc.**

Indispensable tool set for the quick and easy separation of ball joint connections in suspension and steering systems. The ever-increasing number of different ball joints used in today's vehicle suspension and steering systems has led to the need for an ever-widening range of ball joint extractors for separating ball joint connections from steering knuckles/stub axles and steering arms. This is mainly due to the different diameters and sizes of the ball joints. In addition, ball joints with conical pivot pins require extractors featuring extremely high stability and strength in order to achieve easy separation. When separating ball joint connections, it is decisive that the angle and the correct pressure point for the separation can be adjusted on the extractor. The **KL-0165-3 K** ball joint extractor set from Gedore Automotive offers service technicians and mechanics a tool with high stability and universal application possibilities. The extractor can easily be adjusted to the respective ball joint diameter and pivot pin height - simply by changing the forks. The ball joint extractor set is supplied in a plastic storage case.

**Scope of Delivery: KL-0165-3 K Ball Joint Extractor Set (with 5 Forks)**

Part No.	Description	Qty
KL-0165-300	Base Tool without Fork (Spindle M24x1.5)	1
KL-0165-3001	Fork a=30mm, e=80mm, d=200mm - e.g. suitable for Landini Tractors	1
KL-0165-3101	Fork a=34mm, e=80mm, d=200mm	1
KL-0165-3201	Fork a=40mm, e=80mm, d=200mm - e.g. suitable for Mercedes, MAN, Scania, Volvo, etc.	1
KL-0165-3301	Fork a=42mm, e=80mm, d=200mm - e.g. suitable for Mercedes, MAN, Scania, Volvo, etc. and John Deere-Tractors	1
KL-0165-3401	Fork a=47mm, e=80mm, d=200mm	1
KL-0165-3090 A	Plastic Storage Case	1

**Accessories (on demand):**

**1993 U-20** CODE:1436686 - Reversible ratchet



**DMK 200** CODE:2641240

**Torque Wrench Dremaster 40-200Nm**



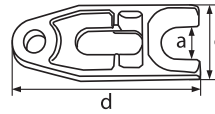
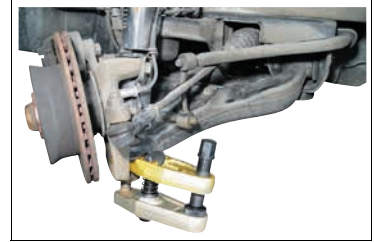
## KL-0165-35 (Pat. e.g. US-Patent 5,906,034) Ball Joint Extractor, Size 3

Suitable for the suspension ball joints found on Mercedes Sprinter (1995 onwards) and VW LT (1998 onwards); upper ball joints on VW T4, stabiliser ball joints on Mercedes Citaro EvoBus O 530 etc.  
(Fork opening a=33mm)

The KL-0165-35 ball joint extractor is the ideal tool for separating ball joint connections in suspension and steering systems.

Scope of Delivery: KL-0165-35 Ball Joint Extractor, Size 3

Part No.	Description	Qty
KL-0165-300	Base Tool without Fork (Spindle M24x1.5)	1
KL-0165-3501	Fork - a=33mm - e=80mm - d=200mm	1



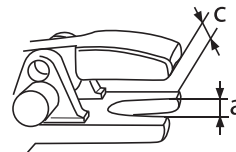
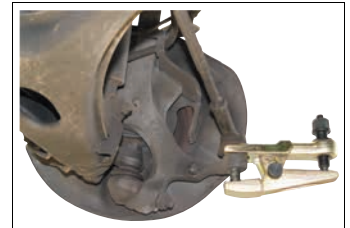
## KL-0163-21 (Patented) Ball Joint Extractor (Strengthened Design)

Suitable for Alfa, VW-Audi, BMW, Fiat, Ford, Mercedes, Nissan, Opel/Vauxhall, Peugeot, Renault, Rover, Saab, Toyota, Volvo.

Designed to extract ball joint pivot pins from the steering arm, steering knuckle, anti-roll bar etc.

Scope of Delivery: KL-0163-21 Ball Joint Extractor (strengthened design)

Part No.	Description	Qty
KL-0163-2101	Fork Body	1
KL-0163-2102	Lever	1
KL-0163-2103	Pressure Screw	1
KL-0163-2104	Pin	1
KL-0163-2105	Threaded Sleeve	1



Technical Data:

a:	20mm
c:	2-stage up to 50mm

## KL-0163-221 Spacer with Dowel Pins

Scope of Delivery: KL-0163-221 Spacer with Dowel Pins

Part No.	Description	Qty
KL-0163-2202	Spacer	1
KL-0163-2204	Dowel Pin	2



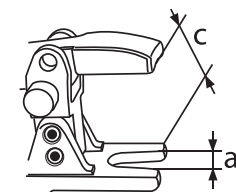
## KL-0163-22 (Pat. e.g. US-Patent 7,020,944) Ball Joint Extractor (Strengthened Design)

Suitable for Opel/Vauxhall, VW Transporter, etc.

Designed to extract ball joint pivot pins from the steering arm, steering knuckle, anti-roll bar etc.

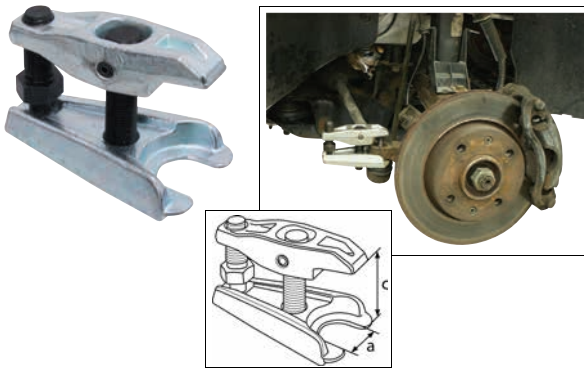
Scope of Delivery: KL-0163-22 Ball Joint Extractor (strengthened design)

Part No.	Description	Qty
KL-0163-2201	Fork Body	1
KL-0163-2202	Spacer	1
KL-0163-2203	Pressure Screw	1
KL-0163-2204	Dowel Pin, Ø 10x40mm	2
KL-0163-2102	Lever	1
KL-0163-2104	Pin	1
KL-0163-2105	Threaded Sleeve	1



Technical Data:

a:	20mm
c:	2-stage up to 95mm



## KL-0162-1 (universal) Ball Joint Extractor

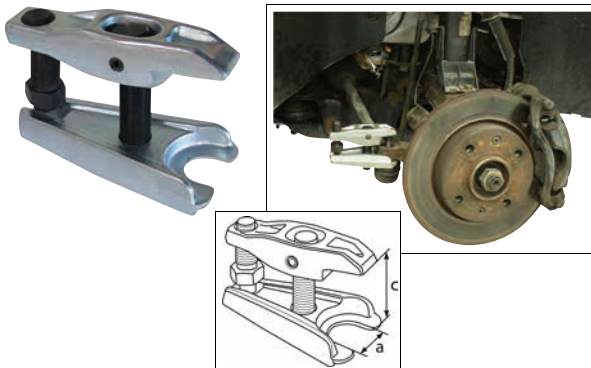
Designed to extract the track rod pivot pin from steering arms, steering knuckles, stabilisers etc.

**Advantage:**

Dimension c is infinitely adjustable, thus providing a wider range of applications.

**Technical Data:**

a:	23mm
c:	30-50mm



## KL-0162-2 Ball Joint Extractor

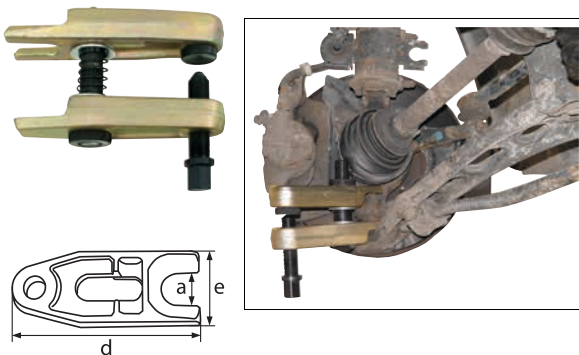
Designed to extract the track rod pivot pin from drop arms, steering knuckles, stabilizers etc.

**Advantage:**

Dimension c is infinitely adjustable, thus providing a wider range of applications.

**Technical Data:**

a:	30mm
c:	30-85mm



## KL-0165-15 (Pat. e.g. US-Patent 5,906,034) Ball Joint Extractor, Size 1

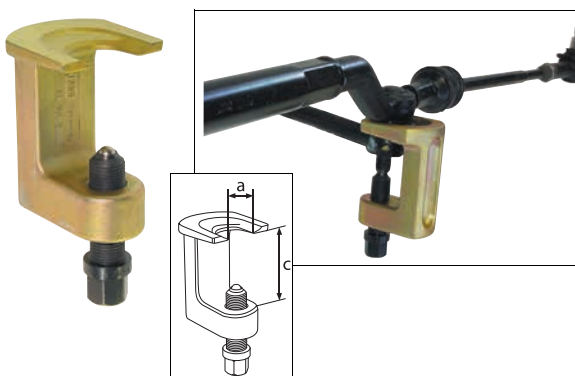
**Universal application.**

**Ideal tool for suspension ball joints on Fiat Punto and BMW E90.**  
(Fork opening a=22mm)

The ball joint extractor **KL-0165-15** is the ideal tool for separating ball joint connections in suspension and steering systems.

**Scope of Delivery: KL-0165-15 Ball Joint Extractor, Size 1**

Part No.	Description	Qty
KL-0165-1502	Pressure Lever	1
KL-0165-1003	Adjusting T-Spindle (M18x1.5x110mm)	1
KL-0165-1004	Pressure Spindle (M18x1.5x70mm)	1
KL-0165-1005	Thrust Piece	1
KL-0165-1006	Adjusting Nut (M18x1.5)	1
KL-0165-1007	Spring	1
KL-0165-1008	Washer, Ø 18mm	1
KL-0165-1501	Fork a=22mm - e=80mm - d=200mm	1



## KL-0164-2 Ball Joint Extractor

**Ideal for use in narrow space conditions like on Audi, VW, BMW, Ford, Mercedes A-Class (W168), C-Class (W202), E-Class (W210), M-Class (W163), SLK (R170), Opel/Vauxhall etc.**

Designed to extract the ball joint pivot pin from steering arms, steering knuckles, stabilisers etc. Needed when extracting the suspension ball joint pivot pin from the steering knuckle.

**Technical Data:**

a:	23mm
c:	55mm
Weight:	900g

**Note:** Only suitable for closed ball joint pivot pins or for those with centre bore hole.

## KL-0164-3 Ball Joint Extractor

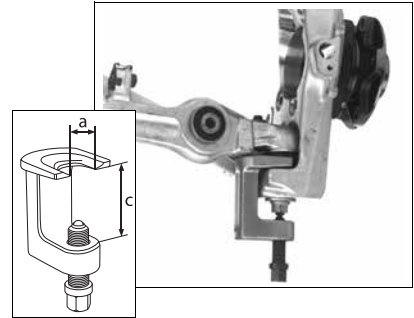
Suitable for front axle on Audi A4, A6 and A8 as well as VW Passat, Mercedes W203 etc.

Designed to extract the suspension ball joint pivot pin from the steering knuckle.

### Technical Data:

a:	28mm
c:	55mm
Weight:	900g

**Note:** Only suitable for closed ball joint pivots pins, and for those with centre hole.



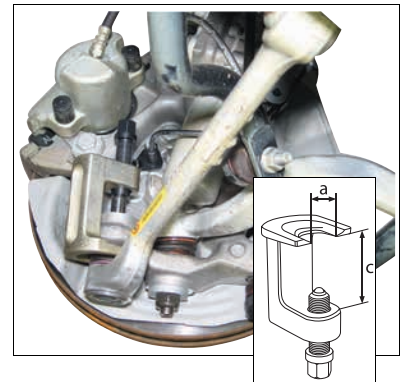
## KL-0164-7 Ball Joint Extractor

Suitable for front axle on BMW 5 Series (E39), Mercedes E-Class (W211), CLS (W219), S-Class (W220) and SL (W230) lower ball joint etc.

Designed to extract the lower ball joint pivot pin out of the steering knuckle.

### Technical Data:

a:	24mm
c:	55mm
Weight:	900g



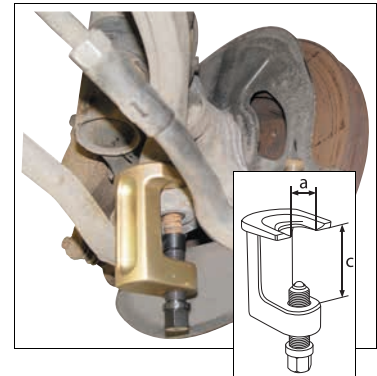
## KL-0164-8 Ball Joint Extractor

Suitable for front axle on Mercedes, for example: upper and lower ball joints C-Class (W203), suspension ball joint E-Class (W210, track rod joint M-Class (W163), E-Class (W211), CLS (W219), S-Class (W220) and SL (W230) as well as on VW, for example: T5 track rod joint etc.

Designed to extract the pivot pin out of ball joint connections.

### Technical Data:

a:	26mm
c:	56mm
Weight:	750g

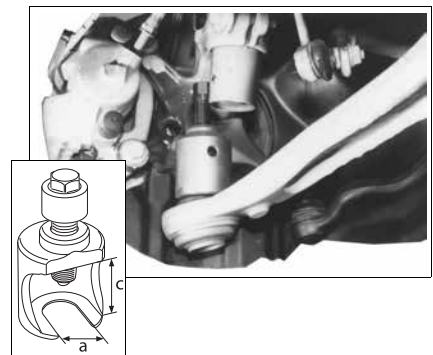


## KL-0164-5 Ball Joint Extractor

Designed to extract the pivot pin of the upper/lower suspension ball joint out of the steering knuckle, for example on Mercedes W211, W220. Can also be used for pressing the outer track rod pivot pin out of the steering arm. Ideal tool for BMW E46 and Mercedes W168 etc.

### Technical Data:

a:	24mm
c:	45mm
Drive:	17mm
External Ø:	55mm



### Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



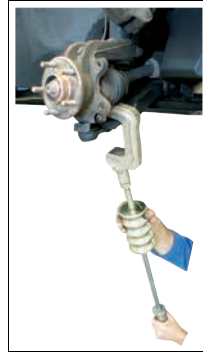
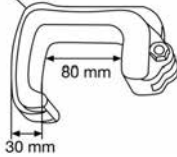
DMK 200 CODE:2641240 - Torque Wrench Dremaster 40-200Nm



2



Width: 40 mm



## KL-0049-360

### U-Type Hook, with Joint

Especially suitable for removing the wishbone from the suspension ball joint clamping hole. Used in conjunction with the slide hammer **KL-0049-31** or **KL-0049-300**. Due to its profiled shape, the hook can be positioned very close to the suspension ball joint.

**Scope of Delivery: KL-0049-360 U-Type Hook, with Joint**

Part No.	Description	Qty
KL-0049-3600	U-Type hook, without Joint	1
KL-0049-3502	Joint, M18	1



## KL-0049-300

### Slide Hammer Puller, 4.8kg (Base Tool)

The ideal tool for extracting stuck or tight-fitting components such as half-shafts, universally jointed drive shafts, injector nozzles etc. It is used in conjunction with the respective adaptors and puller bolts.

**Scope of Delivery: KL-0049-300 Slide Hammer Puller, 4.8 kg (Base Tool)**

Part No.	Description	Qty
KL-0049-3001	Pull Rod for KL-0049-3	1
KL-0049-3002	Hammer Weight, 4.8kg, for KL-0049-3	1
KL-0049-3003	Handle for KL-0049-3	1
KL-0049-3004	Hex Nut, M18	1

## KL-0160-..

### Separator Forks

These wedge-shaped forks enable the quick and easy separation of stuck ball joint pins from their conical seats.

Also suitable for removing shock absorbers as well as for loosening drop arms.

**Attention:** Separator Forks may damage the gaiter.



## KL-0160-1

### Separator Fork, 18mm

**Technical Data:**

Fork opening:	18mm
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## KL-0160-2

### Separator Fork, 23mm

**Technical Data:**

Fork opening:	23mm
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## KL-0160-3

### Separator Fork, 30mm

**Technical Data:**

Fork opening:	30mm
---------------	------

## KL-0160-4

### Separator Fork, 40mm

**Technical Data:**

Fork opening:	40mm
---------------	------

## KL-0169-1 A Track Rod Adjustment Tool

**Universally suitable for track rods with tube Ø of approx. 14 to 23mm as found in passenger cars.**

Designed to facilitate the loosening and adjustment of stiff track rods with tube Ø of approx. 14 to 23mm as found in passenger cars.

Thanks to the detachable tube handle, the tool length can be reduced from 420 to 250mm. This allows for convenient working even in confined space conditions in the wheel arch.

The broad serrated jaws are designed to prevent damage to the track rod.

### Technical Data:

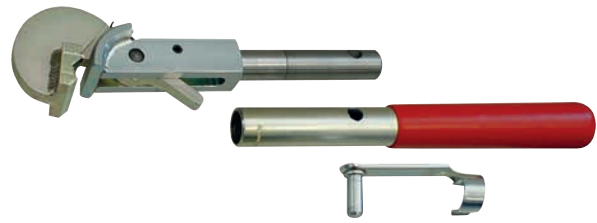
For track rod tube Ø:	approx. 14-23mm
Overall length:	420mm
Length without tube handle:	250mm

### Scope of Delivery: KL-0169-1 A Track Rod Adjustment Tool

Part No.	Description	Qty
KL-0169-100	Adjustment Tool	1
KL-0169-101	Tube Handle	1

### Scope of Delivery: KL-0169-101 Tube Handle

Part No.	Description	Qty
KL-0184-0103	Folding Spring Bolt	1
KL-0169-1002/2	Tube Handle	1
KL-0184-0101-1	Protective Handle Ø 25x150mm	1

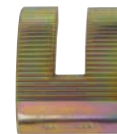


2

## KL-0169-1001 Adaptor

In conjunction with our **KL-0169-1 A** track rod adjustment tool, the **KL-0169-1001** adaptor facilitates the loosening and adjustment of stiff passenger car track rods.

Simply insert the **KL-0169-1001** adaptor into the **KL-0169-1 A** adjustment tool, and the latter is also suitable for track rod tubes having a diameter of approx. 11mm or greater.



## KL-0167-20 Track Rod Eccentric Socket, Ø 33-42mm

**Suitable for track rod joints with Ø 33-42mm.**

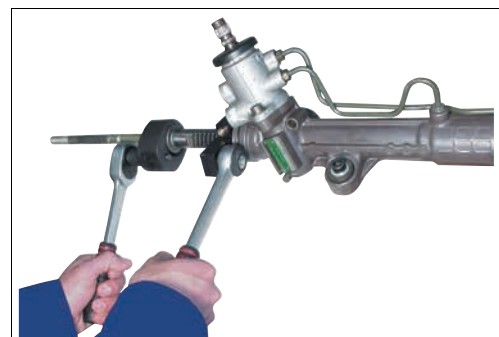
This tool allows for the quick and easy removal and installation of inner track rod joints.

The removal of the steering gear is not necessary.



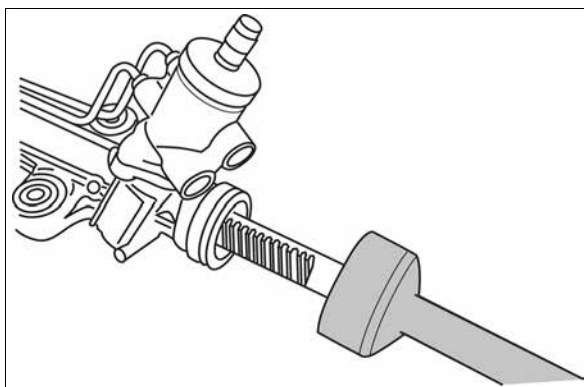
### Technical Data:

Drive:	1/2"
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2



## KL-0167-15 A Universal Wrench for Inner Track Rod Joint, Ø 30-43mm

**Universally suitable for all inner track rod joints with a spherical head Ø of from 30mm to 43mm.**

**THE ideal tool for Mercedes Sprinter, VW Crafter (Ø 43mm).**

This wrench allows the quick and easy removal and installation of the specified inner track rod joints to be performed without the need for removing the complete steering system from the vehicle.

The tool stands out for its special design, the exchangeable roller inserts equipped with high-grade metal rollers and steel cage. The perfect choice for a wide range of applications. Works on spherical heads with Ø of from 30mm to 43mm.

### Advantages:

- Universal tool, thanks to its very small outer diameter and large working range of from 30mm to 43mm.
- High-grade metal rollers and steel cage ensure long service life of the tool.
- Exchangeable roller inserts.

### Technical Data:

Drive:	1/2"
Length:	480mm

### Scope of Delivery:

**KL-0167-15 A Universal Wrench for Inner Track Rod Joint, Ø 30-43mm**

Part No.	Description	Qty
KL-0167-1510 A	Base Body	1
KL-0167-1510-5	Spring Clip	1
KL-0167-1512	Roller Cage, Ø 36-43mm	1
KL-0167-1511	Roller Cage, Ø 30-36mm	1
KL-0167-1512-3 A	Disc	1



## KL-0167-151 Set of Mounting Tools for Inner Track Rod Joints, Ø 30-43mm

**Designed for Renault vehicles.**

The **KL-0167-151** tool set allows the quick and easy removal and installation of inner track rod joints to be performed without the need for removing the complete steering system. Suitable for spherical heads with diameters of from 30-43mm.

### Procedure:

To counter-hold the rack, fasten the corresponding locking tools (depending on the steering type) to the rack.

Loosen and tighten the inner track rod joint with the aid of the universal wrench while keeping the rack in position using the suitable locking tool.

After the inner track rod joint has been removed, the sealing ring in the steering-gear housing can be replaced quickly and easily.

### Scope of Delivery:

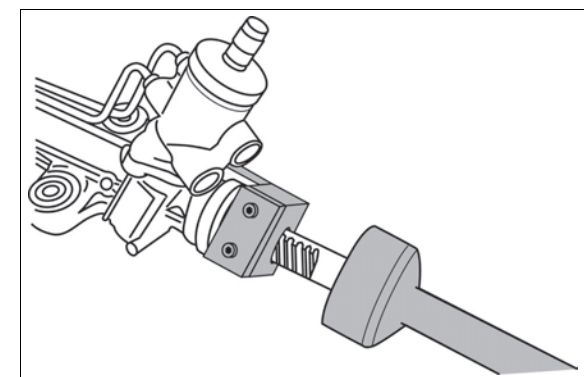
**KL-0167-151 Set of Mounting Tools for Inner Track Rod Joints, Ø 30-43mm**

Part No.	Description	Qty
KL-0167-15 A	Universal Wrench for Inner Track Rod Joint, Ø 30-43mm	1
KL-0167-131	Set of Locking Tools, Renault	1

### Scope of Delivery:

**KL-0167-131 Set of Locking Tools, Renault**

Part No.	Description	Qty
KL-0167-1313	Locking Tool, Renault	1
KL-0167-1314	Locking Tool, Renault (KL-0167-1311 + KL-0167-1312)	1

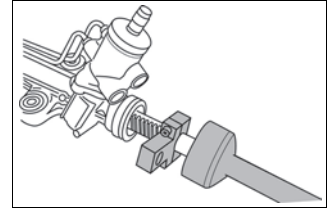
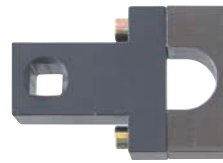


## KL-0167-141 Counter-Holding Tool for Racks

**Suitable for racks with a Ø of 25mm, for example found in ZF power steering systems Type 7832 (974 115) on Toyota vehicles.**

Designed to counter-hold the rack when removing and installing the inner track rod joint. Used in conjunction with universal wrench **KL-0167-15**.

Any standard 1/2" ratchet or 1/2" sliding T-Bar can be used as a holding tool.



## KL-0121-81 Hose Clamp Pliers

**Universal application. Ideal for VW-Audi etc.**

Works on „earless“ hose clamps that are found on axle boots, radiator and fuel hoses.

**Technical Data:**

Lenght:	230mm
Weight:	340g



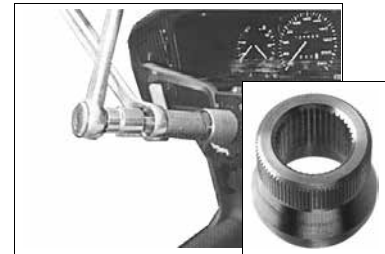
## KL-0240-1 Puller for Spacer Sleeves, VW

**Suitable for vehicle models from 1988 onwards, such as VW Golf (II and III), Jetta, Vento, Polo, Passat, etc.**

When replacing steering column switches, it is necessary to firstly remove the steering wheel and then, extract the spacer sleeve from the cone of the steering column. The special design of the puller **KL-0240-1** ensures that its collet chuck precisely encompasses the spacer sleeve, thus enabling quick and smooth extraction of the sleeve.

**Technical Data:**

Clamping range:	27-30mm
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## KL-0240-2 Drive-In Mandrel for Spacer Sleeves

The drive-in mandrel **KL-0240-2** made of brass allows spacer sleeves to be pushed into the steering column without risk of damage.



## KL-0270-31 C Bit Wrench, Angled, (Reinforced Design), with 8 Bit Inserts

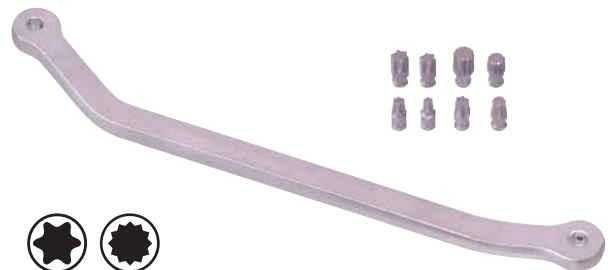
**Suitable for Mercedes Toe Adjustment, e.g. on 190 Series (W201), C-Class (W202), C-Class (W203), 200-300 E (W124), E-Class (W210, W211), S-Class (W220).**

The **KL-0270-31 C** wrench is the ideal tool for setting the toe at the rear axle. Due to its special shape, this tool allows the user to easily and accurately turn the adjusting screw which is particularly hard to access.

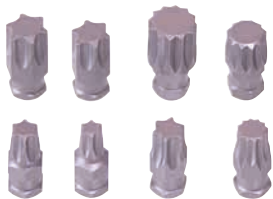
**Technical Data:**

Lenght:	320mm
Bit Insert:	T30, T40, T45, T50, T55, XZN-8, XZN-10, XZN-12
Bit Insert (height):	20mm
Bit Drive:	5/16"
Weight:	500g

\* = reg. trademark of Acument Intellectual Properties, LLC. USA



2



## KL-0270-304

### Bit Insert Set (8-Piece Set)

Composed of 5/16" Drive Bit Inserts in Sizes:  
(Torx®) T30, T40, T45, T50, T55,  
XZN-M8, XZN-M10, XZN-M12

® = reg. trademark of Acument Intellectual Properties, LLC. USA



## KL-0168-1

### Camber Adjustment Tool Set (2-Pc)

**Suitable for: VW Golf, Jetta, Seat Toledo, etc.**

With extra strong spindle (M14).

This camber adjustment tool allows the mechanic to adjust and set camber angles on the vehicle single-handedly. The use of this tool not only saves a lot of time, but also eliminates the need for additional labour. The tool is placed between the car body and the wheel-rim. The camber is adjusted by rotating the hex nut.

**Technical Data:**

Min. span width:	135mm
Max. span width:	175mm



## KL-0168-2

### Camber Adjustment Tool Set (2-Pc)

**Suitable for VW Polo (from 1995 onwards), Seat Cordoba etc.**

With extra strong spindle (M14).

This camber adjustment tool allows the mechanic to adjust and set camber angles on the vehicle single-handedly. The use of this tool not only saves a lot of time, but also eliminates the need for additional labour. The tool is placed between the car body and the wheel-rim. The camber is adjusted by rotating the hex nut.

**Technical Data:**

Min span width:	155mm
Max. span width:	180mm



## KL-0540-21

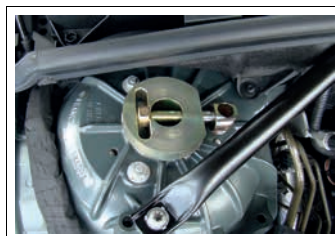
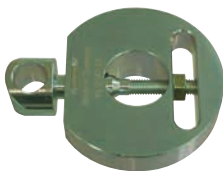
### Camber Adjustment Tool

**Applicable to: BMW E87 (1 Series); E46, E90 (3 Series); E39 (5 Series); E38, E65, E66, E67 (7 Series); E84 (X1); E83, F25 (X3); E53, E70 (X5) and E85 (Z4).**

The camber adjustment tool **KL-0540-21** enables the accurate and quick adjustment of the front axle camber. Adjustment is carried out by accurately aligning the upper strut mount. Professional and accurate adjustment of the camber is nearly impossible without the use of this tool.

**Technical Data:**

Weight:	750g
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## KL-0540-22

### Camber Adjustment Tool, BMW

**Suitable for BMW E60, E61 (5 Series) and E63, E64 (7 Series).**

The camber adjustment tool **KL-0540-22** enables the accurate and quick adjustment of front axle cambers. The adjustment is carried out by accurately aligning the upper strut mount. Professional and accurate adjustment of the camber is nearly impossible without the use of this tool.

Accessories (on demand):

7 R - Combination Ratchet Spanner



## KL-0326-20

### 4-Pin Lock Nut Socket, Mercedes

**Suitable for Mercedes M-Class (W163).**

For tightening the suspension ball joint lock nut on the steering knuckle/stub axle.

**Technical Data:**

Outer diameter:	63mm
Inner diameter:	53mm
Pin width:	7.5mm
Weight:	500g



2

## KL-1340-10

### 4-Pin Socket, Citroën/Peugeot

**Suitable for Citroën BX (model 09/'82 until '94) / Citroën C5 / Citroën Xantia; Peugeot 305 (model 7/'82 until '90) / Peugeot 405 (from model 6/'87 onwards) / Peugeot 406 / Peugeot 605 / Peugeot 607 etc.**

Designed to loosen and tighten screw-fitted suspension ball joints.

**Technical Data:**

Drive:	1/2"
Outer diameter:	52mm
Inner diameter:	42.5mm
Tooth Width:	5.5mm
Weight:	520g



## KL-1340-201

### Socket, Size (waf) 41mm, Citroën/Peugeot

**Suitable for Peugeot 307, 308, 3008, 5008, Partner, RCZ; Citroën Berlingo, C4 etc.**

Designed to loosen and tighten screw-fitted suspension ball joints.

**Technical Data:**

Size:	bi-hex
Drive:	1/2"
Length:	75mm
Weight:	700g

1/2"



## KL-1220-246

### Socket, (waf) 46mm, Renault Master/Opel/Vauxhall Movano

**Designed for Renault Master and Opel/Vauxhall Movano from 2010 onwards.**

For loosening and tightening screw-fitted suspension ball joints.

**Technical Data:**

Size (waf):	46mm
Profile:	bi-hex
Drive:	1/2"
Length:	100mm

1/2"



**Accessories (on demand):**

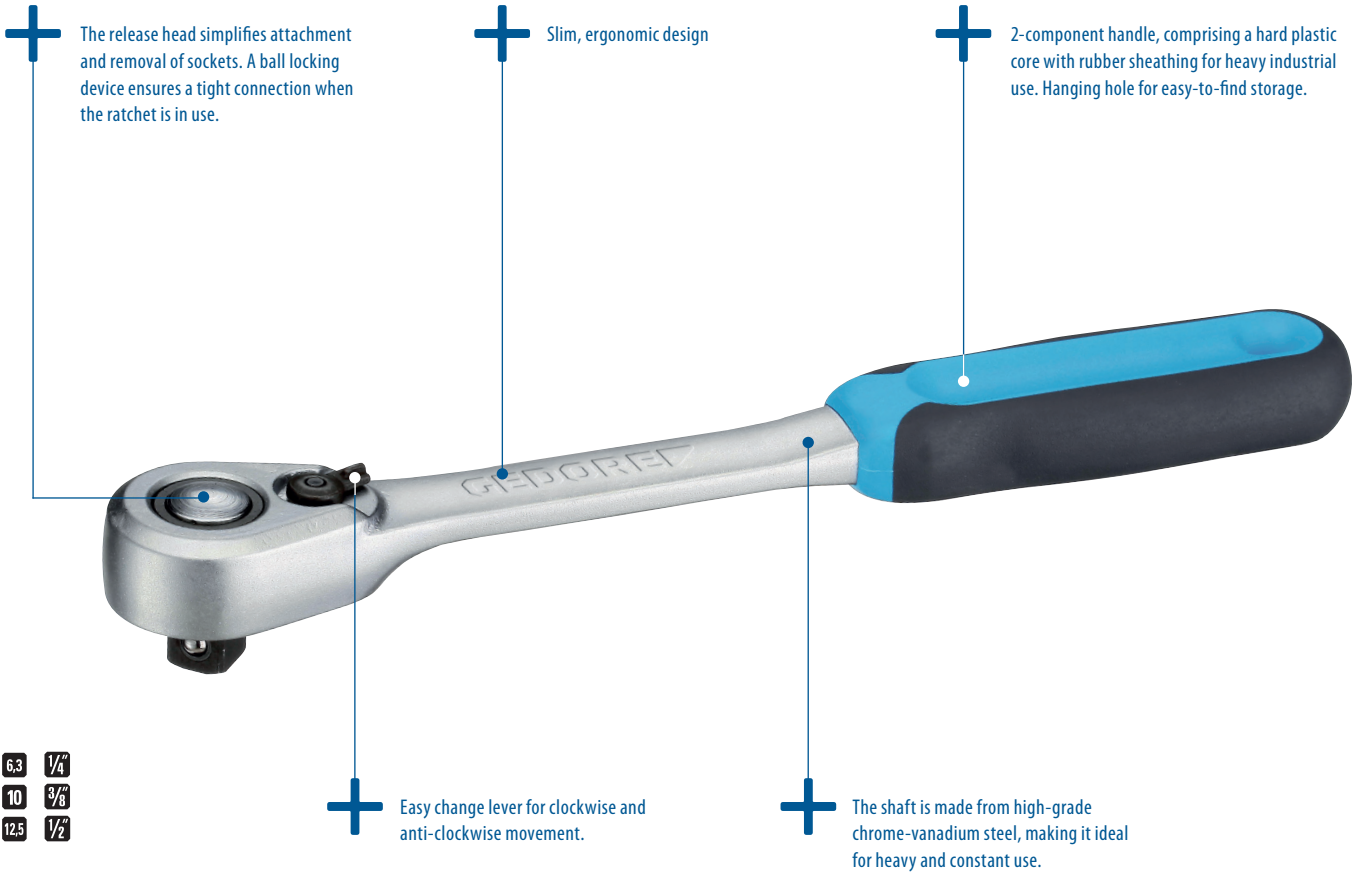
**1993 U-20** CODE:1436686 - Reversible ratchet



# U-20 RATCHETS

## DESIGN-ORIENTED PREMIUM RATCHETS

2



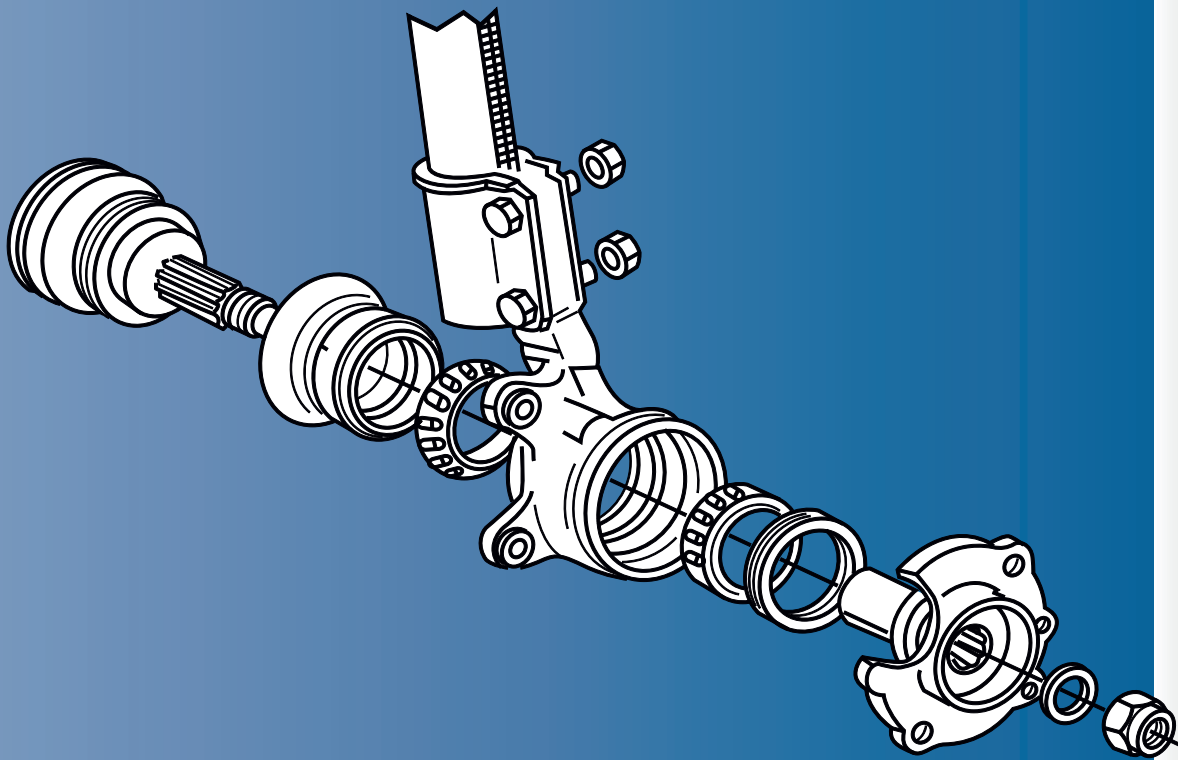
## MANUFACTURING PROCESS

Front



Rear



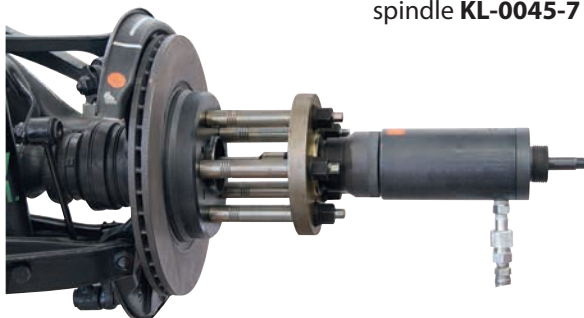


# Axle Repairs e.g. Wheels, Bearings, Hubs, Drive Shafts, etc.

## Application examples of the GEDORE Automotive modular tool system

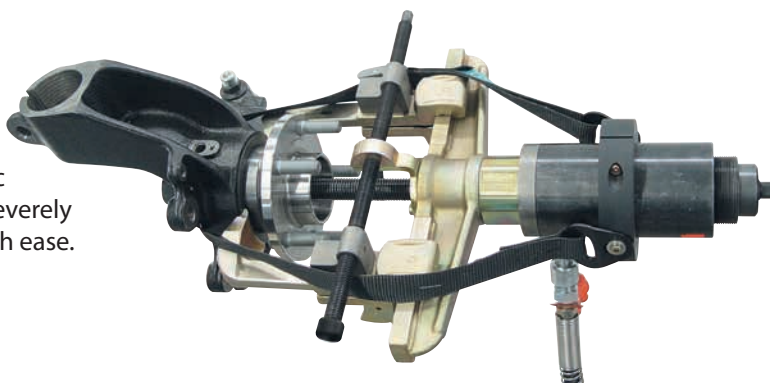
3

- ☑ Removing a **drive shaft** with the aid of a puller of the **KL-0174-... Series**.  
With bonded drive shafts, you will additionally need the 12t hydraulic spindle **KL-0045-7** or the 17t hydraulic cylinder **KL-0040-2500**.

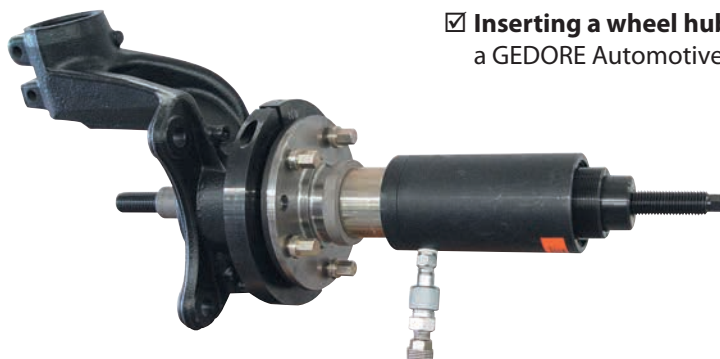


- ☑ Removing an **inner bearing race from the hub** using the **KL-0042-90** tool with the appropriate collet chuck.

- ☑ **Extracting a wheel hub bearing unit** using the **KL-0041-38** tool.  
The additional use of the 17t hydraulic cylinder **KL-0040-2500** allows even severely seized wheel hubs to be extracted with ease.



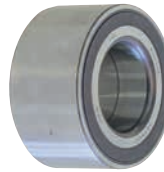
- ☑ **Inserting a wheel hub bearing unit** using a GEDORE Automotive wheel bearing tool set.



Chapter 3 overview

**3.1 Wheel Bearings**

Page 3.1-01 to 3.1-16



**3.2 Screw-Fitted Wheel Hub Bearing Units**

Page 3.2-01 to 3.2-07



**3.3 Wheel Hub Bearing Units**

Page 3.3-01 to 3.3-09



**3.4 Wheel Hubs**

Page 3.4-01 to 3.4-11



**3.5 Drive Shafts**

Page 3.5-01 to 3.5-09



**3.6 Wheels**

Page 3.6-01 to 3.6-03





# The Mobile Modular Tool Storage System „MODULO“

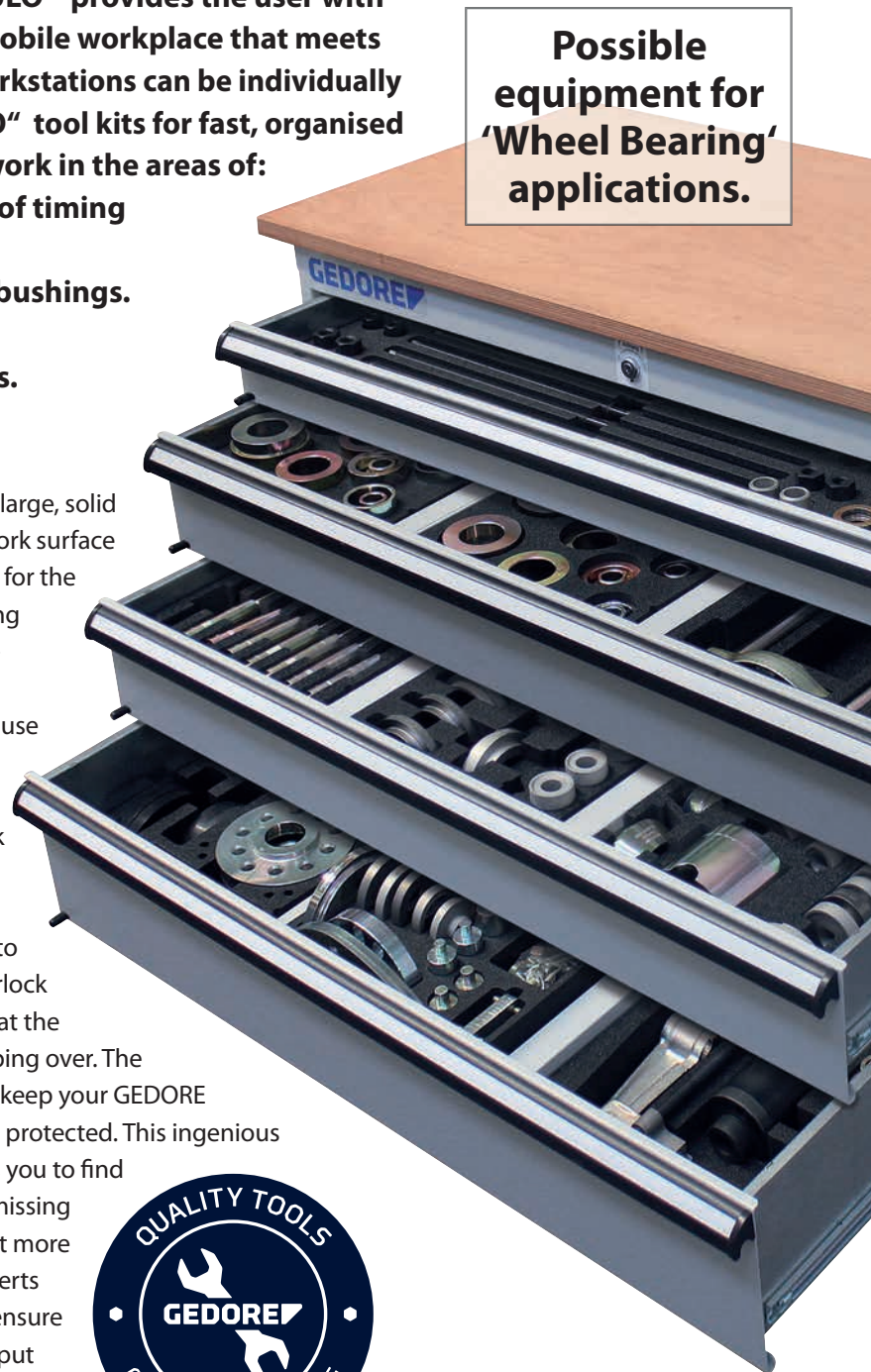
3

The modular Tool Storage System “MODULO” provides the user with the possibility to create a versatile and mobile workplace that meets exactly their own particular needs. The workstations can be individually equipped with all the necessary “MODULO” tool kits for fast, organised and cost-effective repairs/maintenance work in the areas of:

- Engine timing/valve train, replacement of timing belts/timing chains.
- Wheel bearings, suspension ball joints, bushings.
- Changing coil springs/shock absorbers.
- Passenger car petrol- and Diesel engines.
- HGVs and light commercial vehicles.

The “MODULO” workshop trolley/workbench with its large, solid Multiplex worktop provides the user with the ideal work surface suitable for a variety of jobs; for example, by allowing for the convenient mounting of the **KL-5501** stationary spring compressor. The lateral push handle and the smooth-running castors (125mm) - two of them are steering castors with double brakes – ensure easy and mobile use of the trolley. The “MODULO” is available in various designs, with either 4 or 5 drawers all featuring an individual locking mechanism as well as a central lock designed to prevent any unintentional opening of the drawers. Each drawer has a load capacity of up to 80kg and can be pulled out completely thanks to full-extension slides. The “one-drawer-at-a-time” interlock mechanism prevents the opening of several drawers at the same time and, as a result, the trolley from tilting/tipping over. The foam inserts of the **KL-4999..-Series** are designed to keep your GEDORE Automotive tools always properly organised and well protected. This ingenious tool storage system from GEDORE Automotive allows you to find the tool you need quickly and easily, and to identify missing tools at a glance. As a result, repairs can be carried out more efficiently - saving you time and money. The foam inserts are provided with specifically tool-shaped spaces to ensure that tools are safely stored and can be taken out and put back in place with ease.

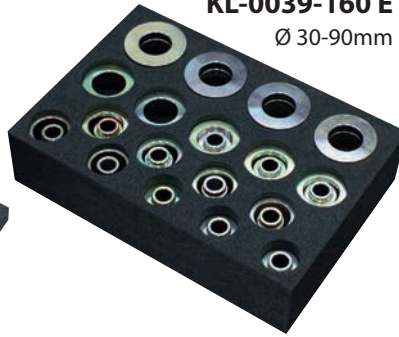
Possible equipment for ‘Wheel Bearing’ applications.



Spindle/Drive Tool Kit  
**KL-0039-191 E**



Pressure/Support Sleeve Set  
**KL-0039-160 E**  
Ø 30-90mm



Pressure/Support Sleeve Set  
**KL-0039-170 E**  
Ø 30-90mm



Press Frame Kit  
**KL-0039-1161 E**



Wheel Bearing Tool Set I  
**KL-0039-8131 E**



Wheel Bearing Tool Set II  
**KL-0039-814 E**



Puller Set KL-0174-Series  
**KL-0174-150 E**



Wheel Hub Puller  
**KL-0041-380 E**



Wheel Bearing Tool Kit  
**KL-0041-480 E**



Wheel Bearing Tool Kit  
**KL-0041-740 E**



3



### The GEDORE Automotive Wheel Bearing Tool Series KL-0039-... !!!!!

#### The big advantages of the unrivalled KL-0039-... Tool Series are:

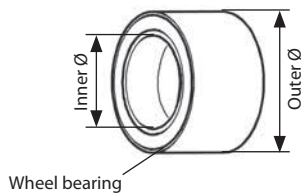
- ☑ Modular system with universally combinable centring and pressure rings. This system requires substantially fewer single parts than the conventional tool sets for axle repair.
- ☑ Possibility to complement the set universally with additional centring and pressure rings. The two possible drives (mechanical and hydraulic). The optional use of press support/sleeves and press frames. All these features make this tool almost universal in its field of application.

#### Wheel Bearing Removal

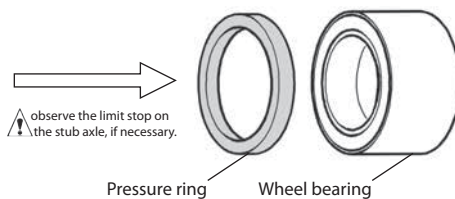
#### Identification of the necessary components and assembling of the tool:

- ⇒ Measuring the inner and outer bearing  $\varnothing$ .
- ⇒ Determination of the correct pressure and centring ring.
- ⇒ Assembling / mounting the pressure piece.

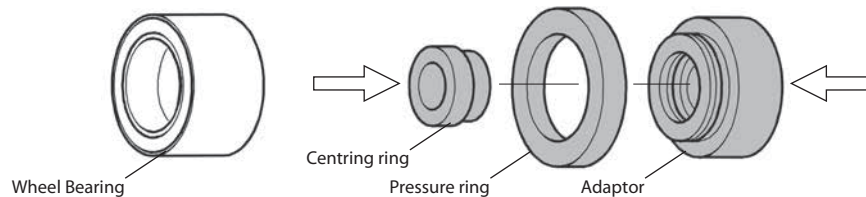
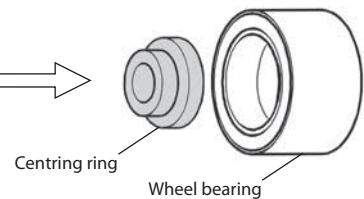
#### Measure bearing $\varnothing$



#### Identify pressure ring (with bearing outer $\varnothing$ / stub axle bore $\varnothing$ )

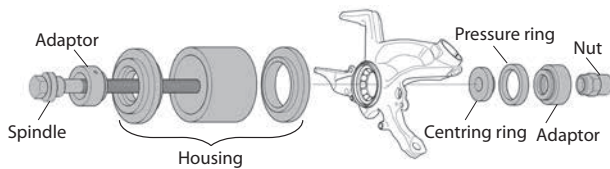


#### Identify centring ring (with bearing inner $\varnothing$ )

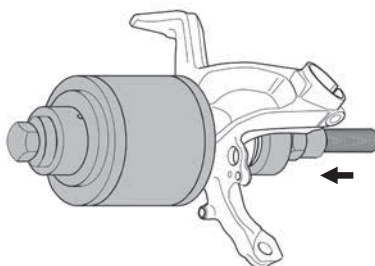


**Note:** The unique design of the pressure pieces enables safe and accurate centring and alignment when changing a wheel bearing. It ensures that when removing and mounting the wheel bearing, the pressing force will be applied on the outer bearing race only, and that when installing the wheel hub, the pressing force will be applied only on the inner bearing race. This prevents damage to the new wheel bearing. **The combination of centring rings and pressure rings creates pressure pieces which can accurately be adjusted to the respective bearing  $\varnothing$ .**

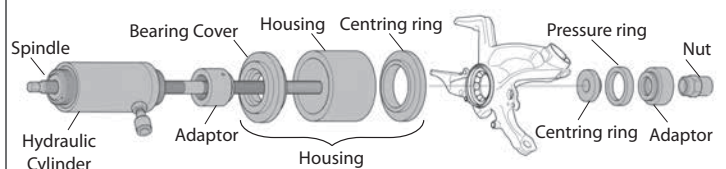
#### Mounting the wheel bearing tool (mechanical drive)



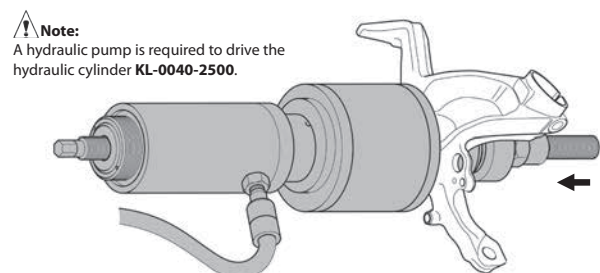
#### Extracting the wheel bearing (mechanically)



#### Mounting the wheel bearing tool (hydraulic drive)



#### Extracting the wheel bearing (hydraulically)



**Note:**  
A hydraulic pump is required to drive the hydraulic cylinder KL-0040-2500.

The GEDORE Automotive Wheel Bearing Tool Series KL-0039-... !!!!!

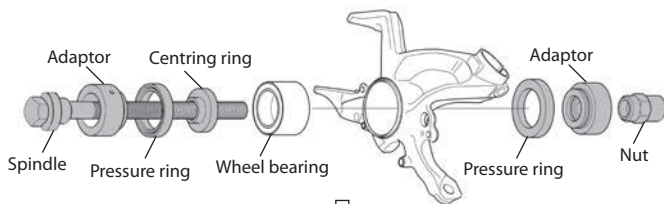
**The big advantages of the unrivalled KL-0039- Tool Series are:**

- ☑ Accurate alignment while inserting a wheel bearing and wheel hub.
- ☑ Substantial time and cost savings as the required tool can easily and universally be assembled as needed.

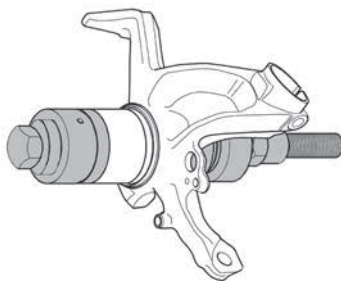
Wheel Bearing Installation

**Identification of the necessary components and assembling of the tool:**

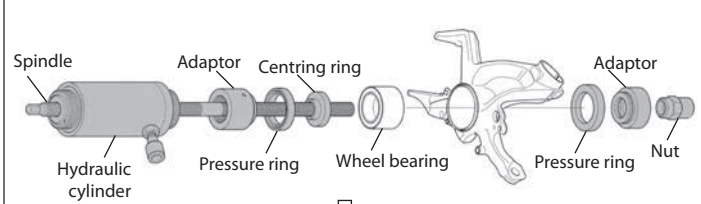
**Mounting the wheel bearing tool (mechanical drive)**



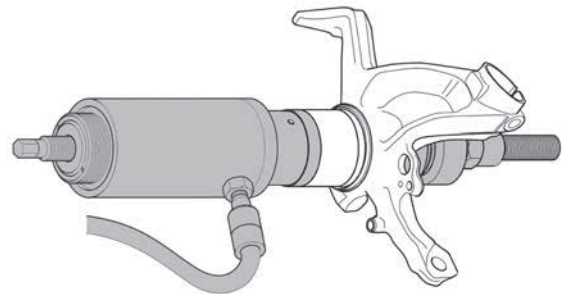
**Inserting the wheel bearing (mechanically)**



**Mounting the wheel bearing tool (hydraulic drive)**



**Inserting the wheel bearing (hydraulically)**



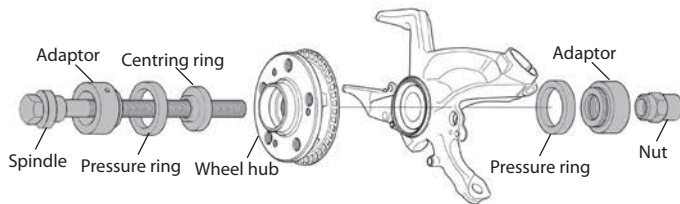
3

Wheel Hub Installation

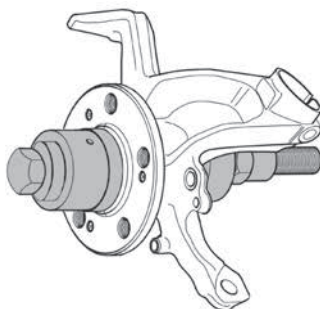
**Identification of the necessary parts and assembling of the tool:**

- ⇒ Identify pressure ring.
- ⇒ Identify wheel hub shoulder outer Ø; identify centring ring.
- ⇒ Identify wheel hub shoulder inner Ø; identify pressure ring (support).
- ⇒ Inner bearing race Ø.

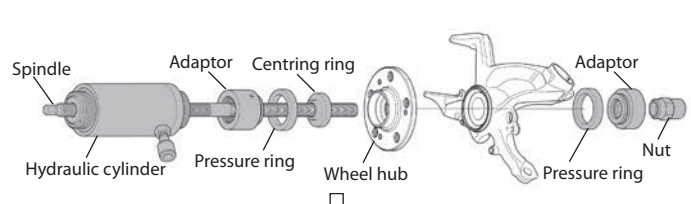
**Mounting the wheel bearing tool (mechanical drive)**



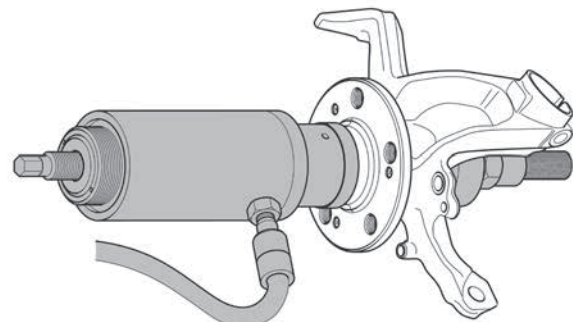
**Inserting the wheel hub (mechanically)**



**Mounting the wheel bearing tool (hydraulic drive)**



**Inserting the wheel hub (hydraulically)**





### KL-0039-0110 K

## Wheel Bearing Tool Set (Mechanical Drive), VW-Audi, BMW, Ford, Seat, Škoda, Opel/Vauxhall

**Suitable for VW-Audi, BMW, Ford, Seat, Škoda, Opel/Vauxhall, etc.**

Designed for the quick, safe and professional removal and installation of wheel bearings.

The unique design of the pressure discs enables safe and accurate centring and alignment when changing a wheel bearing. It ensures that when removing and mounting the wheel bearing, the pressing force will be applied on the outer bearing race only, and that when mounting the wheel hub, the pressing force will be applied only on the inner bearing race. This prevents damage to the new wheel bearing.

The combination of centring rings and pressure rings creates pressure pieces which can be accurately adjusted to the respective bearing  $\emptyset$ .

Alternatively, a hydraulic 17t drive (accessory) can be used if wheel bearings are heavily corroded or seized in place.

Thanks to the possibility to easily upgrade the tool set with other parts of the **KL-0039-... Series** such as centring and pressure rings or pressure/support sleeves, this wheel bearing tool set is virtually universally applicable. It can, for example, also be used to change suspension ball joints and silentblochs.

**Note:**

The wheel bearing tool set **KL-0039-0110 K** can also be operated hydraulically. For this, the set has to be used in conjunction with the hydraulic drive **KL-0039-802**, hydraulic cylinder **KL-0040-2500** and a hydraulic pump such as the **KL-0215-35 M25**. This will be necessary, for example, if wheel bearings are extremely stuck or seized in place.

**Scope of Delivery: KL-0039-0110 K Wheel Bearing Tool Set**

Part No.	Description	Qty
<b>KL-0039-0110</b>	<b>Wheel Bearing Tool Set (with mechanical drive)</b>	<b>1</b>
KL-0039-0119	Plastic Storage Case	1

**Scope of Delivery: KL-0039-0110 Wheel Bearing Tool Set, with Mechanical Drive**

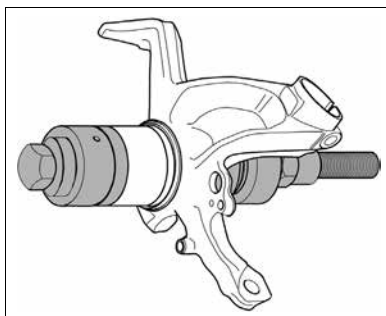
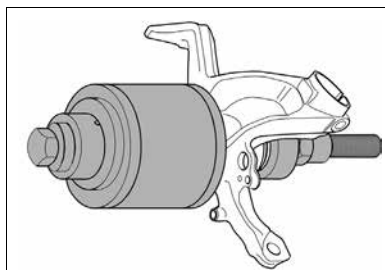
Part No.	Description	Qty
<b>KL-0039-140</b>	<b>Housing Set</b>	<b>1</b>
<b>KL-0039-0101</b>	<b>Pressure/Centring Ring Set, (16-piece)</b>	<b>1</b>
KL-0039-1011	Retaining Adaptor for Mechanical Spindle	1
KL-0039-1002	Retaining Adaptor with O-Ring for Clamping Nut and Pressure Spindle	1
KL-0040-3008	Pull Spindle	1
KL-0040-3009	Clamping Nut	1

**Scope of Delivery: KL-0039-140 Housing Set**

Part No.	Description	Qty
KL-0039-1401	Bearing Cover	1
KL-0039-1402	Housing	1
KL-0039-1413	Centring Ring, $\emptyset$ 70mm	1
KL-0039-1414	Centring Ring, $\emptyset$ 75mm	1
KL-0039-1415	Centring Ring, $\emptyset$ 80mm	1

**Scope of Delivery: KL-0039-0101 Pressure-/Centring Ring Set (16-Piece Set)**

Part No.	Description	Qty
KL-0039-1260	Pressure Ring, $\emptyset$ 60mm	1
KL-0039-1264	Pressure Ring, $\emptyset$ 64mm	1
KL-0039-1268	Pressure Ring, $\emptyset$ 68mm	1
KL-0039-1272	Pressure Ring, $\emptyset$ 72mm	1
KL-0039-1274	Pressure Ring, $\emptyset$ 74mm	1
KL-0039-1280	Pressure Ring, $\emptyset$ 80mm	1
KL-0039-1282	Pressure Ring, $\emptyset$ 82mm	1
KL-0039-1285	Pressure Ring, $\emptyset$ 85mm	1
KL-0039-1334	Centring Ring, $\emptyset$ 34mm	1
KL-0039-1338	Centring Ring, $\emptyset$ 38mm	1
KL-0039-1339	Centring Ring, $\emptyset$ 39mm	1
KL-0039-1340	Centring Ring, $\emptyset$ 40mm	1
KL-0039-1341	Centring Ring, $\emptyset$ 41mm	1
KL-0039-1342	Centring Ring, $\emptyset$ 42mm	1
KL-0039-1343	Centring Ring, $\emptyset$ 43mm	1
KL-0039-1345	Centring Ring, $\emptyset$ 45mm	1



**Accessories (on demand):**

**1993 U-20** CODE:1436686 - Reversible ratchet



**7 R - Combination Ratchet Spanner**

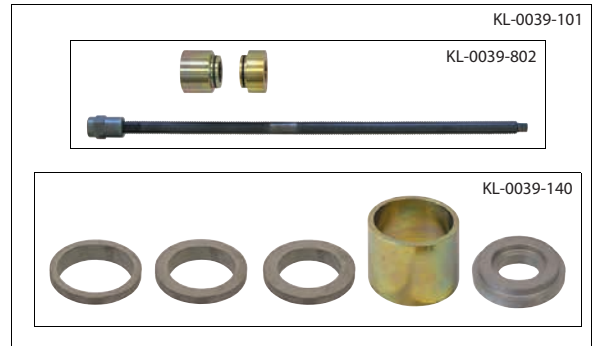


# KL-0039-0100

## Wheel Bearing Tool Set, without Hydraulic Cylinder, VW-Audi, BMW, Ford, Seat, Škoda, Opel/Vauxhall

**Suitable for VW-Audi, BMW, Ford, Seat, Škoda, Opel/Vauxhall, etc.**

Designed for the quick, accurate and safe removal and installation of wheel bearings. Even heavily seized or corroded wheel bearings can easily be removed using the **KL-0039-0100** tool set. For this, the hydraulic cylinder **KL-0040-2500** is necessary. The unique design of the pressure discs enables safe and accurate centring and alignment when changing a wheel bearing. It ensures that when removing and mounting the wheel bearing, the pressing force will be applied on the outer bearing race only, and that when installing the wheel hub, the pressing force will be applied only on the inner bearing race. This prevents damage to the new wheel bearing. The combination of centring rings and pressure rings creates pressure pieces which can accurately be adjusted to the respective bearing Ø. Thanks to the possibility to upgrade the tool set with other parts of the **KL-0039-.. Series** such as centring and pressure rings or pressure/support sleeves, this wheel bearing tool set is virtually universally applicable. It can, for example, also be used to change suspension ball joints and silentblobs.



**Scope of Delivery: KL-0039-0100 Wheel Bearing Tool Set, without Hydr. Cyl.**

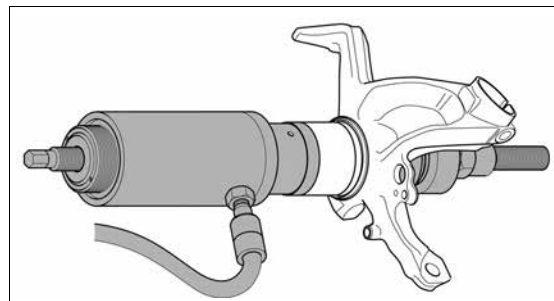
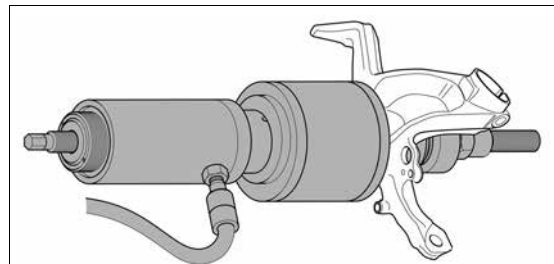
Part No.	Description	Qty
KL-0039-101	Wheel Bearing Tool Drive Set without Hydraulic Cylinder	1
KL-0039-0101	Pressure/Centring Ring Set (16-piece)	1

**Scope of Delivery: KL-0039-101 Wheel Bearing Tool Drive Set, without Hydr. Cyl.**

Part No.	Description	Qty
KL-0039-802	Hydraulic Drive without Hydraulic Cylinder	1
KL-0039-140	Housing Set	1

**Scope of Delivery: KL-0039-0101 Pressure-/Centring Ring Set (16-Piece Set),  
VW-Audi, BMW, Ford, Seat, Škoda, Opel/Vauxhall**

Part No.	Description	Qty
KL-0039-1260	Pressure Ring, Ø 60mm	1
KL-0039-1264	Pressure Ring, Ø 64mm	1
KL-0039-1268	Pressure Ring, Ø 68mm	1
KL-0039-1272	Pressure Ring, Ø 72mm	1
KL-0039-1274	Pressure Ring, Ø 74mm	1
KL-0039-1280	Pressure Ring, Ø 80mm	1
KL-0039-1282	Pressure Ring, Ø 82mm	1
KL-0039-1285	Pressure Ring, Ø 85mm	1
KL-0039-1334	Centring Ring, Ø 34mm	1
KL-0039-1338	Centring Ring, Ø 38mm	1
KL-0039-1339	Centring Ring, Ø 39mm	1
KL-0039-1340	Centring Ring, Ø 40mm	1
KL-0039-1341	Centring Ring, Ø 41mm	1
KL-0039-1342	Centring Ring, Ø 42mm	1
KL-0039-1343	Centring Ring, Ø 43mm	1
KL-0039-1345	Centring Ring, Ø 45mm	1



**Scope of Delivery: KL-0039-802 Hydraulic Drive Kit without Hydraulic Cylinder**

Part No.	Description	Qty
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	1
KL-0039-1920	Pull Spindle, M20, with Clamping Nut	1

**Scope of Delivery: KL-0039-140 Housing Set**

Part No.	Description	Qty
KL-0039-1401	Bearing Cover	1
KL-0039-1402	Housing	1
KL-0039-1413	Centring Ring, Ø 70mm	1
KL-0039-1414	Centring Ring, Ø 75mm	1
KL-0039-1415	Centring Ring, Ø 80mm	1

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## KL-0039-812

### Wheel Bearing Tool Set (Without Drive), VW/Audi

**Suitable for VW-Audi, for example, Audi A3 (8L), A4 (B5), A4 Quattro (B6) HA, A6 (4A, 4B), A8 (4D, 4E), TT (8N, 8J), Q7 (4L); VW Polo (6N), Golf (II, III, IV), Passat, Sharan, T4, Touareg II (7P) and Porsche Cayenne.**

Designed for the quick, safe and professional removal and installation of wheel bearings. Thanks to the possibility to easily upgrade this tool set with other parts of the **KL-0039-... Series**, this wheel bearing tool can be used almost universally. To drive the wheel bearing tool, either the mechanical or the hydraulic drive set will be needed.

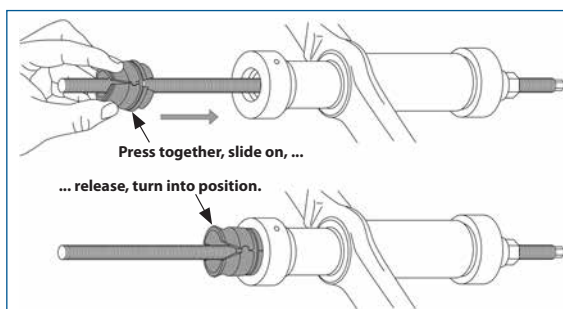
#### Scope of Delivery: KL-0039-812 Wheel Bearing Tool Set (Without Drive)

Part No.	Description	Qty
KL-0039-1401	Bearing Cover	1
KL-0039-1402	Housing	1
KL-0039-1413	Centring Ring, Ø 70mm	1
KL-0039-1414	Centring Ring, Ø 75mm	1
KL-0039-1415	Centring Ring, Ø 80mm	1
KL-0039-1265	Pressure Ring, Ø 65mm	1
KL-0039-1266	Pressure Ring, Ø 66mm	1
KL-0039-1267	Pressure Ring, Ø 67mm	1
KL-0039-1270	Pressure Ring, Ø 70mm	1
KL-0039-1272	Pressure Ring, Ø 72mm	1
KL-0039-1274	Pressure Ring, Ø 74mm	1
KL-0039-1275	Pressure Ring, Ø 75mm	1
KL-0039-1276	Pressure Ring, Ø 76mm	1
KL-0039-1278	Pressure Ring, Ø 78mm	1
KL-0039-1279	Pressure Ring, Ø 79mm	1
KL-0039-1280	Pressure Ring, Ø 80mm	1
KL-0039-1281	Pressure Ring, Ø 81mm	1
KL-0039-1282	Pressure Ring, Ø 82mm	1
KL-0039-1283	Pressure Ring, Ø 83mm	1
KL-0039-1285	Pressure Ring, Ø 85mm	1
KL-0039-1296	Pressure Ring, Ø 96mm	1
KL-0039-1334	Centring Ring, Ø 34mm	1
KL-0039-1335	Centring Ring, Ø 35mm	1
KL-0039-1337	Centring Ring, Ø 37mm	1
KL-0039-1339	Centring Ring, Ø 39mm	1
KL-0039-1340	Centring Ring, Ø 40mm	1
KL-0039-1506	Centring Ring, Ø 60mm	1
KL-0039-1505	Adaptor Ring, (cylindrical)	1

## KL-0039-23 - Set of Quick-Action Clamping Nuts (5-pc.)

**Universally suitable for the tools of the KL-0039..Wheel Bearing/Silenbloc Tool..Series with pull spindles having either an M10x1.25, M12, M14, M16 or M20 retaining thread.**

Thanks to their special design, the quick-action clamping nuts can be adjusted simply by sliding them on the pull spindle without any rotational movement. This allows for short assembly/clamping times, as well as quick and easy adjustment and simple operation of the tool.



For scope of delivery, please see page 145.

**KL-0039-22 - Set of Quick-Action Clamping Nuts (4-pc.).** Like KL-0039-23, but without Quick-Action Clamping Nut M16.



# KL-0039-85

## Wheel Bearing Tool Set with Hydraulic Cylinder, BMW

Suitable for BMW 3 Series (E30, E36, F30); 5 Series (E34, E39); 7 Series (E32, E38) etc.

This tool set allows the quick and professional removal and installation of drive shafts, wheel hubs and wheel bearings to be performed in situ on the vehicle.

### Scope of Delivery: KL-0039-85 Wheel Bearing Tool Set with Hydraulic Cylinder

Part No.	Description	Qty
KL-0039-850	Wheel Bearing Tool Set without Hydraulic Cylinder, BMW	1
KL-0039-802	Hydraulic Drive without Hydr. Cyl.	1
KL-0040-2500	Hydraulic Cylinder (17t)	1

### Scope of Delivery: KL-0039-850 Wheel Bearing Tool Set without Hydr. Cyl.

Part No.	Description	Qty
KL-0174-910	Wheel Hub/Drive Shaft Tool, without Hydraulic Cylinder	1
KL-0039-810 A	Wheel Bearing Tool Set (Without Drive), BMW	1

### Scope of Delivery: KL-0174-910 Wheel Hub / Drive Shaft Tool, without Hydr. Cyl.

Part No.	Description	Qty
KL-0174-113	Puller Set with Slide Hammer	1
KL-0174-911	Upgrade Kit (Drive Shaft Removal)	1
KL-0415-610	Upgrade Kit (Drive Shaft Installation)	1

### Scope of Delivery: KL-0174-113 Puller Set with Slide Hammer

Part No.	Description	Qty
KL-0174-240	Perforated Puller Plate, Size 2	1
KL-0174-723	Puller Bolt, Type B, M12x1.5 (l=100)	4
KL-0174-724	Puller Bolt, Type B, M14x1.5 (l=100)	4
KL-0174-727	Puller Bolt, Type B, M14x1.25 (l=100)	3
KL-0174-701	Hex Shoulder Nut, M14	4
KL-0049-31	Slide Hammer, 4,8kg	1

### Scope of Delivery: KL-0174-911 Upgrade Kit (Drive Shaft Removal)

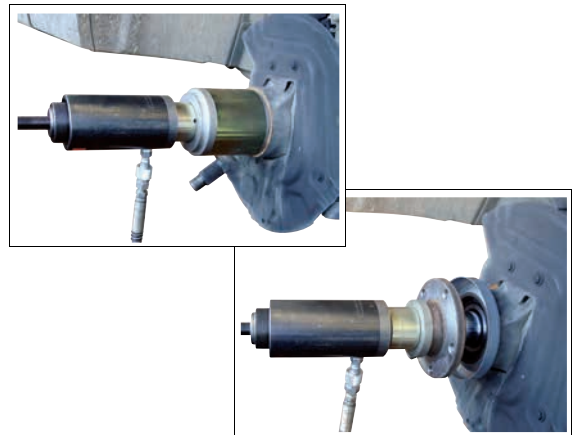
Part No.	Description	Qty
KL-0174-559	Adaptor 2 1/4"-14 UNS to 2 1/4"-14 UNS	1
KL-0039-1930	Pressure Spindle M20x350mm, with O-Ring	1
KL-0039-1935	Thrust Piece	1

### Scope of Delivery: KL-0415-610 Upgrade Kit (Drive Shaft Installation), BMW

Part No.	Description	Qty
KL-0174-563	Adaptor 2 1/4"-14 UNS to Ø 60mm	1
KL-0040-2242-1	Pull spindle M16x590mm	1
KL-0039-1916-2	Shoulder nut M16	1
KL-0415-0008	Adaptor M24x1.5	1
KL-0415-0009	Adaptor M30x1.5	1
KL-0415-0010	Adaptor M22x1.5	1
KL-0415-0011	Adaptor M27x1.5	1

### Scope of Delivery: KL-0039-810 A Wheel Bearing Tool Set (Without Drive), BMW

Part No	Description	Qty
KL-0039-1401	Bearing Cover	1
KL-0039-1402	Housing	1
KL-0039-1415	Centring Ring, Ø 80mm	1
KL-0039-1260	Pressure Ring, Ø 60mm	1
KL-0039-1264	Pressure Ring, Ø 64mm	1
KL-0039-1272	Pressure Ring, Ø 72mm	1
KL-0039-1274	Pressure Ring, Ø 74mm	1
KL-0039-1275	Pressure Ring, Ø 75mm	1
KL-0039-1280	Pressure Ring, Ø 80mm	1
KL-0039-1281	Pressure Ring, Ø 81mm	1
KL-0039-1283	Pressure Ring, Ø 83mm	1
KL-0039-1285	Pressure Ring, Ø 85mm	1
KL-0039-1290	Pressure Ring, Ø 90mm	1
KL-0039-1339	Centring Ring, Ø 39mm	1
KL-0039-1342	Centring Ring, Ø 42mm	1
KL-0039-1345	Centring Ring, Ø 45mm	1
KL-0039-1349	Centring Ring, Ø 49mm	1
KL-0039-1506	Centring Ring, Ø 60mm	1



### Scope of Delivery: KL-0039-802 Hydraulic Drive Kit without Hydraulic Cylinder

Part No.	Description	Qty
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydr. Cyl.	1
KL-0039-1920	Pull Spindle, M20, with Clamping Nut	1





## KL-0039-811

### Wheel Bearing Tool Set (Without Drive)

**Suitable for Mercedes, e.g. 190 Series (W201), A-Class (W168, W169), B-Class (W245), W124, C-Class (W202, W203), E-Class (W210), M-Class (W163, W164), S-Class (W140), V-Class (W639).**

For the quick, safe and professional removal and installation of wheel bearings. Thanks to the possibility to easily upgrade the tool set with other parts of the **KL-0039-... Series**, this wheel bearing tool can be used almost universally. To drive the wheel bearing tool, either the mechanical or the hydraulic drive set will be needed.

#### Scope of Delivery: KL-0039-811 Wheel Bearing Tool Set (Without Drive)

Part No.	Description	Qty	Part No.	Description	Qty
KL-0039-1401	Bearing Cover	1	KL-0039-1287	Pressure Ring, Ø 87mm	1
KL-0039-1402	Housing	1	KL-0039-1288	Pressure Ring, Ø 88mm	1
KL-0039-1403	Housing	1	KL-0039-1290	Pressure Ring, Ø 90mm	1
KL-0039-1415	Centring Ring, Ø 80mm	1	KL-0039-1342	Centring Ring, Ø 42mm	1
KL-0039-1266	Pressure Ring, Ø 66mm	1	KL-0039-1345	Centring Ring, Ø 45mm	1
KL-0039-1270	Pressure Ring, Ø 70mm	1	KL-0039-1349	Centring Ring, Ø 49mm	1
KL-0039-1273	Pressure Ring, Ø 73mm	1	KL-0039-1350	Centring Ring, Ø 50mm	1
KL-0039-1275	Pressure Ring, Ø 75mm	1	KL-0039-1354	Centring Ring, Ø 54mm	1
KL-0039-1279	Pressure Ring, Ø 79mm	1	KL-0039-1501	Centring Ring	1
KL-0039-1283	Pressure Ring, Ø 83mm	1	KL-0039-1502	Pressure Ring, Ø 93mm	1
KL-0039-1284	Pressure Ring, Ø 84mm	1	KL-0039-1506	Centring Ring, Ø 60mm	1
KL-0039-1285	Pressure Ring, Ø 85mm	1			

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## KL-0039-210

### Wheel Bearing Tool Set with Hydr. Cyl., Mercedes W639 Rear Axle

**Suitable for Mercedes Benz Vito/Viano (W639) rear axle. (bearing external Ø 92mm / internal Ø 50mm)**

Designed for the quick, safe and professional removal and installation of wheel bearings as well as for the installation of wheel hubs on rear axle wishbones without the need for removing the latter from the vehicle. The special design of the press pieces enables safe and accurate centring and alignment when changing wheel bearings. It ensures that when removing and mounting the wheel bearing, the pressing force will be applied on the outer bearing race only, and that when mounting the wheel hub, the pressing force will be applied only on the inner bearing race. This prevents damage to the new wheel bearing. The combination of centring rings and pressure rings creates press pieces which can be adjusted accurately to the respective bearing Ø. Thanks to the possibility to upgrade the tool set with other parts of the **KL-0039-... Series** such as centring and pressure rings or press-/support sleeves, this wheel bearing tool is almost universal in its field of application. It can, for example, also be used to change suspension ball joints and silentblochs.

#### Scope of Delivery: KL-0039-210 Wheel Bearing Tool Set with Hydr. Cyl.

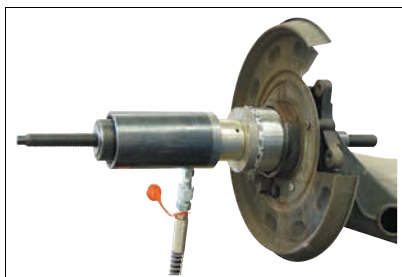
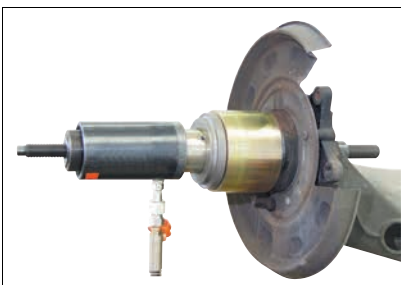
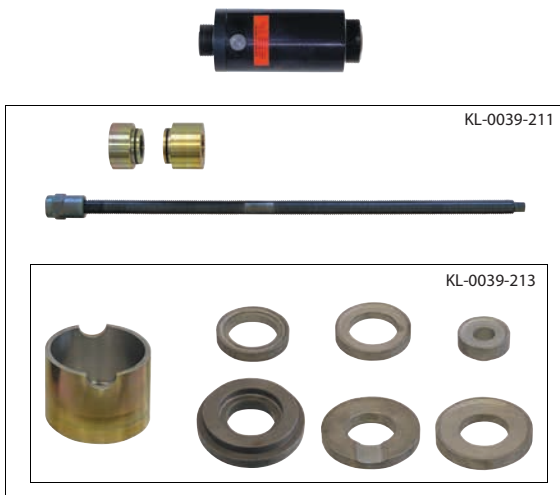
Part No.	Description	Qty
KL-0039-211	Wheel Bearing Tool Set without Hydr. Cyl., Mercedes W639 Rear Axle	1
KL-0040-2500	Hydraulic Cylinder, 17t	1

#### Scope of Delivery: KL-0039-211 Wheel Bearing Tool Set without Hydr. Cylinder

Part No.	Description	Qty
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	1
KL-0039-1920	Pull Spindle, M20, with Clamping Nut	1
KL-0039-213	Sleeve Set, Mercedes W639 Rear Axle	1

#### Scope of Delivery: KL-0039-213 Sleeve Set, Mercedes W639 Rear Axle

Part No.	Description	Qty
KL-0039-1270	Pressure Ring, Ø 70mm	1
KL-0039-1273	Pressure Ring, Ø 73mm	1
KL-0039-1350	Centring Ring, Ø 50mm	1
KL-0039-1403	Housing	1
KL-0039-1501	Centring Ring	1
KL-0039-1502	Pressure Ring, Ø 93mm	1
KL-0039-1401	Bearing Cover	1



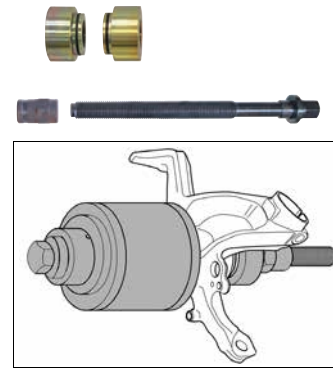
## KL-0039-801

### Mechanical Drive Kit, 260mm

Necessary to mechanically operate the wheel bearing tools of the **KL-0039-.. Series**. The ball bearing and the integrated guide of the pull spindle and clamping nut in the adaptor enable professional and efficient working, even if wheel bearings are seized in place.

**Scope of Delivery: KL-0039-801 Mechanical Drive Kit**

Part No.	Description	Qty
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1011	Retaining Adaptor for Mechanical Spindle	1
KL-0040-3008	Pull Spindle (overall length: 290mm)	1
KL-0040-3009	Clamping Nut	1



## KL-0039-801 A

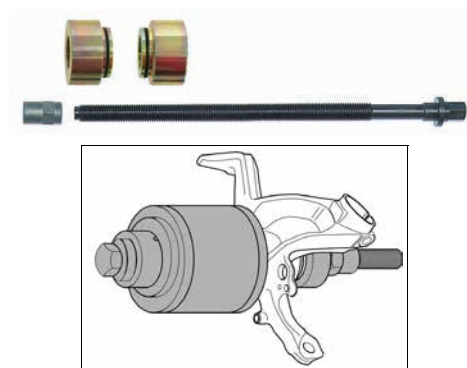
### Mechanical Drive Kit, 390mm

Necessary to mechanically operate the wheel bearing tools of the **KL-0039-..** and **KL-0041-4.. Series**.

The ball bearing and the integrated guide of the pull spindle and clamping nut in the retaining adaptor ensure professional and efficient working.

**Scope of Delivery: KL-0039-801 A Mechanical Drive Kit, 390mm**

Part No.	Description	Qty
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1011	Retaining Adaptor for Mechanical Spindle	1
KL-0039-2030	Pull Spindle, M20 (overall length: 420mm)	1
KL-0040-3009	Clamping Nut	1



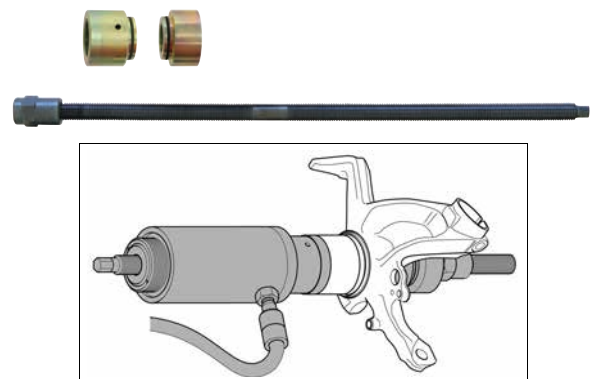
## KL-0039-802

### Hydraulic Drive Kit without Hydr. Cyl.

This kit is designed to hydraulically operate the wheel bearing tool sets of the **KL-0039-.. Series** in conjunction with the 17t hydraulic cylinder **KL-0040-2500** and a hydraulic pump such as **KL-0215-35 M25** or **KL-0215-37 M25**; indispensable for heavily seized wheel bearings. The special design of the two retaining adaptors ensures accurate and safe guidance and centring of the hydraulic cylinder and clamping nut relative to the wheel bearing tool.

**Scope of Delivery: KL-0039-802 Hydraulic Drive Kit without Hydraulic Cylinder**

Part No.	Description	Qty
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	1
KL-0039-1920	Pull Spindle, M20, with Clamping Nut	1



## KL-0040-3008

### Pull Spindle, M20

**Technical Data:**

Overall length:	290mm
Drive:	19mm
Max. load:	20t



## KL-0039-2030

### Pull Spindle, M20

**Technical Data:**

Overall length:	420mm
Drive:	19mm
Max. load:	20t



**Accessories (on demand):**

**1993 U-20** CODE:1436686 - Reversible ratchet



**7 R - Combination Ratchet Spanner**





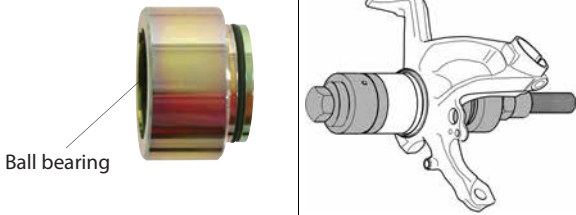
**Note:** For quick-action clamping nuts, please refer to page 92.

### KL-0040-3009 Clamping Nut, M20

**Technical Data:**

Overall length:	50mm
Drive:	30mm

3

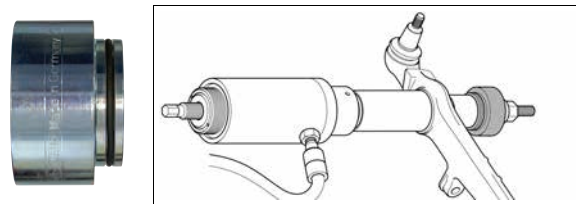


Ball bearing

### KL-0039-1011 Retaining Adaptor for Mechanical Spindle

This tool is necessary to retain the various **KL-0039-..** and **KL-0043-..** pressure/support sleeves if these are to be used with the mechanical drive.

The built-in ball bearing allows for accurate and professional working, even under intensive load.



### KL-0039-1002 Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle

This adaptor is necessary for retaining the various pressure/support sleeves of the **KL-0039-..** and **KL-0043-.. Series**.

Retaining Ø for clamping nut or pressure spindle: 20mm



### KL-0039-800 K Hydraulic Drive Kit

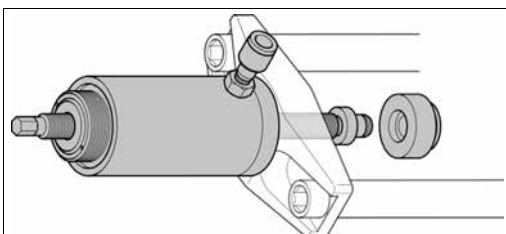
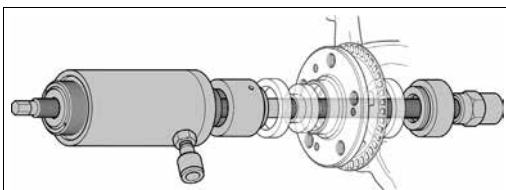
The kit is designed to upgrade our mechanical tool sets such as the pulling devices for silentbloc **KL-0039-412 K** and **KL-0039-413 K**, wheel bearing tool set **KL-0039-0110 K** and puller series **KL-0174-..** so as to enable these to be driven by the 17t hydraulic cylinder **KL-0040-2500**.

Due to its special design as a hollow piston cylinder and thanks to the possibility to be used in conjunction with various spindles, the **KL-0040-2500** hydraulic cylinder is suitable for pulling and pushing operations. Even severely seized bearings, bushes or drive shafts can be removed and installed quickly and with ease using the 17t drive kit.

**Scope of Delivery:**

**KL-0039-800 K Hydraulic Drive Kit**

Part No.	Description	Qty
KL-0039-1912	Pull Spindle, M12, with Nut	1
KL-0039-1914	Pull Spindle, M14, with Nut	1
KL-0039-1920-1	Pull Spindle, M20	1
KL-0040-3009	Clamping Nut	1
KL-0039-1920-4	Clamping Nut, Ø 38mm	1
KL-0039-1930	Pressure Spindle, M20x350mm, with O-Ring	1
KL-0039-1935	Thrust Piece	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	1
KL-0040-2500	Hydraulic Cylinder (17t)	1
KL-0039-8009	Plastic Storage Case	1



## KL-0040-2500 Hydraulic Cylinder (17t)

Thanks to its special design as a hollow piston cylinder, the **KL-0040-2500** hydraulic cylinder (17t) can be used to perform pulling as well as pushing operations in conjunction with the corresponding spindles available as accessories.

### Range of Use:

In conjunction with various GEDORE Automotive tools, the hydraulic-cylinder (17t) **KL-0040-2500** can be used for the removal and installation of drive shafts, wheel hubs, wheel bearings, silentblocs and suspension ball joints.

### Technical Data:

Maximum admissible force:	170kN (17t)
Maximum stroke:	45mm
Maximum oil pressure:	700bar
Maximum volume of oil:	122cm <sup>3</sup>
Piston area:	27cm <sup>2</sup>
Thread in hollow piston:	M20
Retaining thread (pushing side):	2¼"-14 UNS
Retaining thread (pulling side):	M42x2
Cylinder external diameter:	80mm
Cylinder overall length (piston retracted):	202mm
Cylinder overall length (piston extended):	247mm
Hydraulic fluid connection thread:	3/8" NPT
Weight:	5.2kg



### Note:

A hydraulic pump is needed to drive the hydraulic cylinder **KL-0040-2500**. For accessories such as coupling, hydraulic pump, pressure gauge etc., please refer to chapter 4 in this Catalogue.

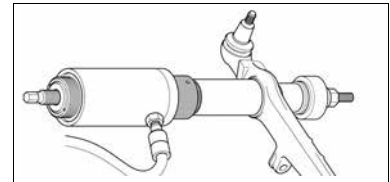


**KL-0040-2500 K**  
Hydraulic Cylinder (17 t), in a Plastic Storage Case  
Like the **KL-0040-2500**, but supplied in a Plastic Storage Case.

3

## KL-0039-1003 Retaining Adaptor with O-Rings, for Hydraulic Cylinder

This adaptor is needed to retain the various **KL-0039-..** and **KL-0043-..** pressure/support sleeves if these are to be used with the hydraulic cylinder **KL-0040-2500**. (Connection thread: M42x2)



## KL-0039-1005 Adaptor, Ø 35mm

The **KL-0039-1005** adaptor upgrades the **KL-0040-2500** GEDORE Automotive hydraulic cylinder (17t) by making it suitable also for use on the tools of the wheel bearing/silentbloc tool series having an internal retaining Ø of 35mm. For this, the **KL-0039-1003** retaining adaptor is also necessary.

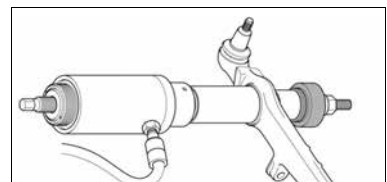
### Technical Data:

External Ø:	35mm
Internal Ø:	20.5mm
Height:	16mm



## KL-0039-1002 Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle

This adaptor is necessary for retaining the various pressure/support sleeves of the **KL-0039-..** and **KL-0043-.. Series**. Retaining Ø for clamping nut or pressure spindle: 20mm





### KL-0039-1920

[German Utility Model]

### Pull Spindle, M20, with Clamping Nut

Scope of Delivery: KL-0039-1920 Pull Spindle, M20

Part No.	Description	Qty
KL-0039-1920-1	Pull Spindle M20	1
KL-0040-3009	Clamping Nut	1

Technical Data:

Overall length:	590mm
Working travel:	390mm
Maximum load capacity:	20t



### KL-0039-2120

[German Utility Model]

### Pull Spindle, M20, with Quick-Action Clamping Nut

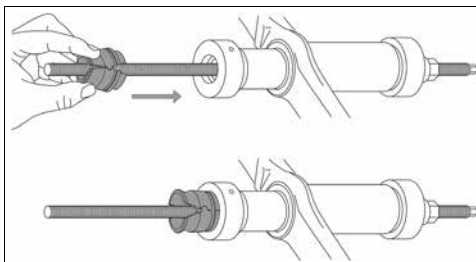
The pull spindle with quick-action clamping nut is used in conjunction with the tools of the **KL-0039-.. Series** and the **KL-0040-2500** hydraulic cylinder (17t) to allow bearings, bushings, joints etc. to be removed and installed hydraulically. Thanks to its special design, the quick-action clamping nut can be adjusted simply by sliding it on the pull spindle without any rotational movement. This allows for short assembly/clamping times, as well as quick and easy adjustment and simple operation of the tool.

Technical Data:

Overall length:	590mm
Drive:	390mm
Max. load capacity:	20t

Scope of Delivery: KL-0039-2120 Pull Spindle M20, with Quick-Action Clamping Nut

Part No.	Description	Qty
KL-0039-1920-1	Pull Spindle, M20	1
KL-0039-2120-2	Quick-Action Clamping Nut, M20	1



Technical Data:

Pin Ø:	20mm
Overall length:	350mm
Maximum load capacity:	20t

### KL-0039-1930

### Pressure Spindle with O-Ring, M20x350mm



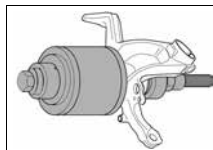
Technical Data:

Length:	590mm
Thread:	M20
Max. load capacity:	20t

### KL-0040-2846-1

### Pull Spindle, M20x590mm

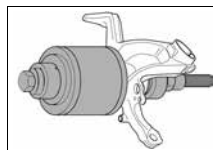
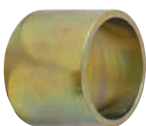
Suitable for hydraulic cylinder **KL-0040-2800**.



### KL-0039-1401

### Bearing Cover

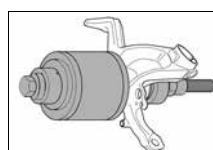
This tool is used for transmitting centred power to the housing.



### KL-0039-1402

### Housing

Suitable for bearing Ø of up to 88mm.



### KL-0039-1403

### Housing

Suitable for bearing Ø of up to 98mm.

## KL-0039-.... Centring Rings

For supporting/centring the wheel bearing tool relative to the wheel bearing housing.

### KL-0039-1413

Centring Ring, Ø 70mm

### KL-0039-1414

Centring Ring, Ø 75mm

### KL-0039-1415

Centring Ring, Ø 80mm



## KL-0039-807 A

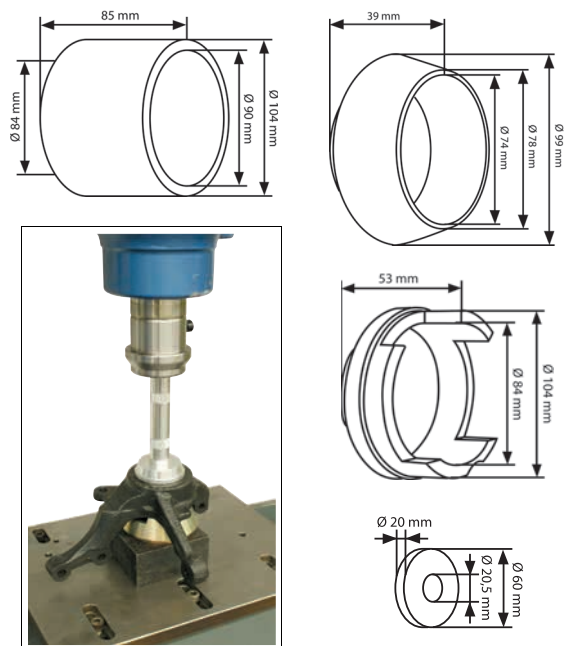
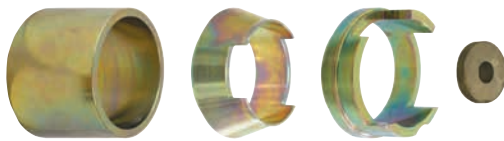
### Support Ring Set

**Universally applicable.**

Designed to support the wheel bearing housing when removing the wheel bearing by means of a hydraulic press.

**Scope of Delivery: KL-0039-807 A Support Ring Set**

Part No.	Description	Qty
KL-0039-1402	Housing	1
KL-0039-1504	Adaptor Ring (conical)	1
KL-0039-1505	Adaptor Ring (cylindric)	1
KL-0039-1506	Centring Ring	1



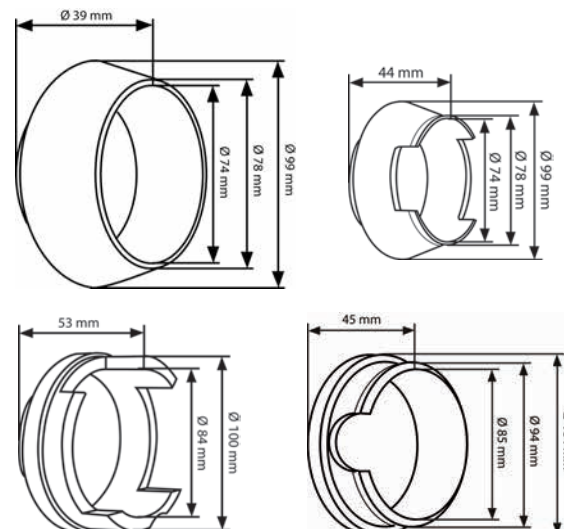
## KL-0039-806 A

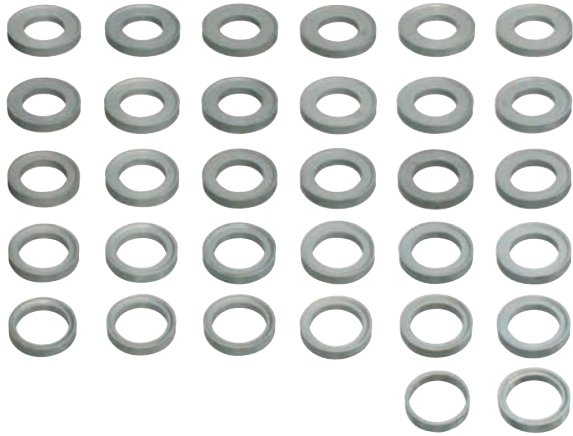
### Set of Adaptor Rings

These rings are required for the accurate support of the wheel bearing tool housing on the wheel bearing housing if a standard support via the centring rings is not possible, e.g. on French vehicles where the wheel bearing needs to be extracted inwards.

**Scope of Delivery: KL-0039-806 A Set of Adaptor Rings**

Part No.	Description	Qty
KL-0039-1503	Adaptor Ring (conical)	1
KL-0039-1504	Adaptor Ring (conical)	1
KL-0039-1505	Adaptor Ring (cylindric)	1
KL-0039-1509	Adaptor Ring (cylindric)	1





3

**Note:**

The unique design of the pressure pieces enables safe and accurate centring and alignment when changing a wheel bearing. It ensures that when removing and mounting the wheel bearing, the pressing force will be applied on the outer bearing race only, and that when installing the wheel hub, the pressing force will be applied only on the inner bearing race. This prevents damage to the new wheel bearing. The combination of centring rings and pressure rings creates pressure pieces which can accurately be adjusted to the respective bearing  $\varnothing$ .

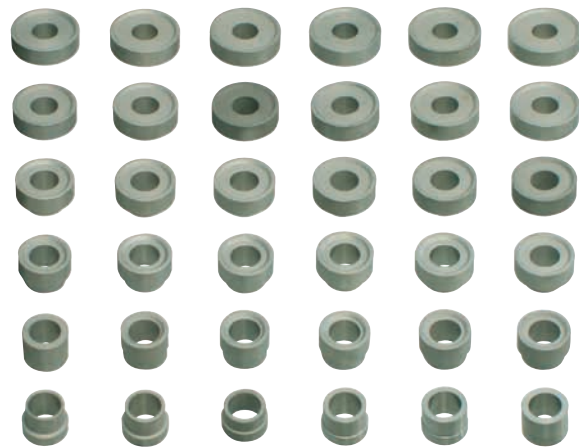
## KL-0039-120

### Set of Pressure Rings, $\varnothing$ 54-90mm

For accurate pressure force transmission on the outer bearing race or inner bearing race.

**Scope of Delivery: KL-0039-120 Set of Pressure Rings,  $\varnothing$  54-90mm**

Part No.	Description	Qty	Part No.	Description	Qty
KL-0039-1254	Pressure Ring, $\varnothing$ 54mm	1	KL-0039-1275	Pressure Ring, $\varnothing$ 75mm	1
KL-0039-1260	Pressure Ring, $\varnothing$ 60mm	1	KL-0039-1276	Pressure Ring, $\varnothing$ 76mm	1
KL-0039-1261	Pressure Ring, $\varnothing$ 61mm	1	KL-0039-1277	Pressure Ring, $\varnothing$ 77mm	1
KL-0039-1262	Pressure Ring, $\varnothing$ 62mm	1	KL-0039-1278	Pressure Ring, $\varnothing$ 78mm	1
KL-0039-1263	Pressure Ring, $\varnothing$ 63mm	1	KL-0039-1279	Pressure Ring, $\varnothing$ 79mm	1
KL-0039-1264	Pressure Ring, $\varnothing$ 64mm	1	KL-0039-1280	Pressure Ring, $\varnothing$ 80mm	1
KL-0039-1265	Pressure Ring, $\varnothing$ 65mm	1	KL-0039-1281	Pressure Ring, $\varnothing$ 81mm	1
KL-0039-1266	Pressure Ring, $\varnothing$ 66mm	1	KL-0039-1282	Pressure Ring, $\varnothing$ 82mm	1
KL-0039-1267	Pressure Ring, $\varnothing$ 67mm	1	KL-0039-1283	Pressure Ring, $\varnothing$ 83mm	1
KL-0039-1268	Pressure Ring, $\varnothing$ 68mm	1	KL-0039-1284	Pressure Ring, $\varnothing$ 84mm	1
KL-0039-1269	Pressure Ring, $\varnothing$ 69mm	1	KL-0039-1285	Pressure Ring, $\varnothing$ 85mm	1
KL-0039-1270	Pressure Ring, $\varnothing$ 70mm	1	KL-0039-1286	Pressure Ring, $\varnothing$ 86mm	1
KL-0039-1271	Pressure Ring, $\varnothing$ 71mm	1	KL-0039-1287	Pressure Ring, $\varnothing$ 87mm	1
KL-0039-1272	Pressure Ring, $\varnothing$ 72mm	1	KL-0039-1288	Pressure Ring, $\varnothing$ 88mm	1
KL-0039-1273	Pressure Ring, $\varnothing$ 73mm	1	KL-0039-1289	Pressure Ring, $\varnothing$ 89mm	1
KL-0039-1274	Pressure Ring, $\varnothing$ 74mm	1	KL-0039-1290	Pressure Ring, $\varnothing$ 90mm	1



**Note:**

The **KL-0039-.. Series** can be complemented by additional pressure/support sleeves, pressure spindles and pressure frames, to create tool sets which are almost universal in their field of application.

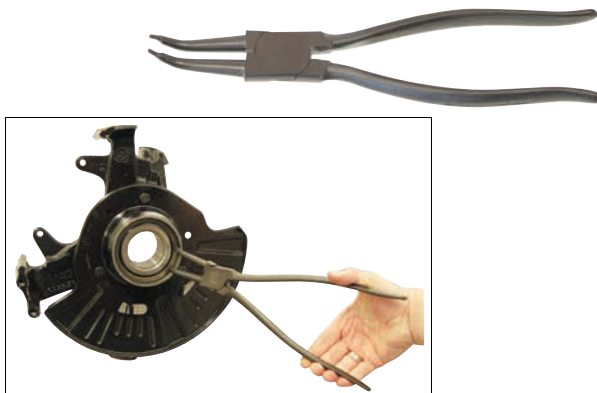
## KL-0039-130

### Set of Centring Rings, $\varnothing$ 25-60mm

The centring rings ensure exact guiding of the wheel bearing throughout the whole removal and installation process.

**Scope of Delivery: KL-0039-130 Centring Ring Set,  $\varnothing$  25-60mm**

Part No.	Description	Qty	Part No.	Description	Qty
KL-0039-1325	Centring Ring, $\varnothing$ 25mm	1	KL-0039-1343	Centring Ring, $\varnothing$ 43mm	1
KL-0039-1326	Centring Ring, $\varnothing$ 26mm	1	KL-0039-1344	Centring Ring, $\varnothing$ 44mm	1
KL-0039-1327	Centring Ring, $\varnothing$ 27mm	1	KL-0039-1345	Centring Ring, $\varnothing$ 45mm	1
KL-0039-1328	Centring Ring, $\varnothing$ 28mm	1	KL-0039-1346	Centring Ring, $\varnothing$ 46mm	1
KL-0039-1329	Centring Ring, $\varnothing$ 29mm	1	KL-0039-1347	Centring Ring, $\varnothing$ 47mm	1
KL-0039-1330	Centring Ring, $\varnothing$ 30mm	1	KL-0039-1348	Centring Ring, $\varnothing$ 48mm	1
KL-0039-1331	Centring Ring, $\varnothing$ 31mm	1	KL-0039-1349	Centring Ring, $\varnothing$ 49mm	1
KL-0039-1332	Centring Ring, $\varnothing$ 32mm	1	KL-0039-1350	Centring Ring, $\varnothing$ 50mm	1
KL-0039-1333	Centring Ring, $\varnothing$ 33mm	1	KL-0039-1351	Centring Ring, $\varnothing$ 51mm	1
KL-0039-1334	Centring Ring, $\varnothing$ 34mm	1	KL-0039-1352	Centring Ring, $\varnothing$ 52mm	1
KL-0039-1335	Centring Ring, $\varnothing$ 35mm	1	KL-0039-1353	Centring Ring, $\varnothing$ 53mm	1
KL-0039-1336	Centring Ring, $\varnothing$ 36mm	1	KL-0039-1354	Centring Ring, $\varnothing$ 54mm	1
KL-0039-1337	Centring Ring, $\varnothing$ 37mm	1	KL-0039-1355	Centring Ring, $\varnothing$ 55mm	1
KL-0039-1338	Centring Ring, $\varnothing$ 38mm	1	KL-0039-1356	Centring Ring, $\varnothing$ 56mm	1
KL-0039-1339	Centring Ring, $\varnothing$ 39mm	1	KL-0039-1357	Centring Ring, $\varnothing$ 57mm	1
KL-0039-1340	Centring Ring, $\varnothing$ 40mm	1	KL-0039-1358	Centring Ring, $\varnothing$ 58mm	1
KL-0039-1341	Centring Ring, $\varnothing$ 41mm	1	KL-0039-1359	Centring Ring, $\varnothing$ 59mm	1
KL-0039-1342	Centring Ring, $\varnothing$ 42mm	1	KL-0039-1360	Centring Ring, $\varnothing$ 60mm	1



## KL-0192-5

### Circlip Pliers, $\varnothing$ 40-100mm

Due to the 45° angled tips, this tool is ideal for inside circlips. Required for gearbox and wheel bearing repairs.

**Technical Data:**

Tip- $\varnothing$ :	2.5mm
Length:	220mm
Weight:	220g

## KL-0192-6

### Circlip Pliers, Ø 85-165mm

The specially designed tips of the pliers (angled at 45°) allow for the trouble-free removal and installation of inner circlips when performing gearbox or wheel bearing repairs.

**Technical Data:**

Tip-Ø:	3mm
Length:	310mm
Weight:	410g



## KL-0192-19

(German Utility Model)

### Circlip Pliers for Inner Circlips without Eyes

**Suitable for the circlips that are found on wheel bearings on Citroën, Peugeot, Nissan, Renault vehicles: Citroën Xara, Nissan Micra and Renault Clio.**

The special design of the pliers' tips and the fixing via a spring-loaded counter-bearing, enable the easy removal and replacement of wheel bearing circlips without eyes.

Professional removal and installation of wheel bearing circlips are almost impossible without the use of this special tool.



## KL-0192-20 KA

### Retaining Ring Removal Tool Set, PSA

**Suitable for Peugeot and Citroën vehicles equipped with drum brakes at the rear axle; such as Citroën C2 (JM), C3 I (FC), C3 Pluriel (HB), SAXO (S0, S1), XSARA (N1), XSARA Break (Estate Car) (N2), XSARA Coupé (N0); Peugeot 1007 (KM), 106 II (1), 206 Hatchback (2A/C), 206 SW (2E/K), 206+ (T3E), 208, 306 (7B, N3, N5), 306 Convertible (7D, N3, N5), 306 Hatchback (7A, 7C, N3, N5).**

Designed for the professional separation/removal of earless-type retaining rings from rear drum brakes with a wheel bearing external Ø of 52mm. Necessary when replacing wheel bearings etc.

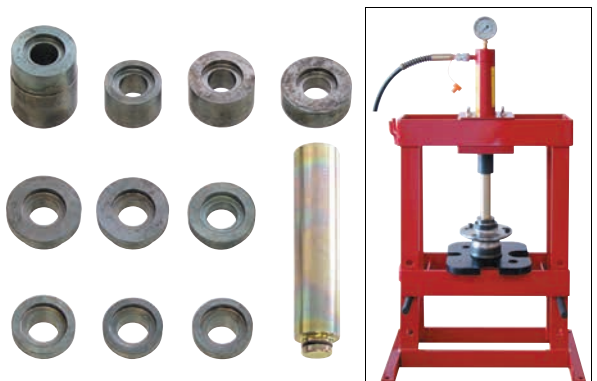


## KL-0040-91

### Bearing Race Assembly Tool Set

These universally applicable pressure discs are necessary to press in the outer bearing race on angular-roller bearings in conjunction with a hydraulic bench press.

The set contains drift **KL-0040-3090** and 10 pressure discs with Ø of 40/25mm, 40/32mm, 42mm, 42/32.5mm, 47/37.5mm, 49.5mm, 49.5/48 mm, 50/41.5mm, 52/41mm and 53.5mm.







**KL-0041-700 K**  
**Wheel Bearing Tool without Hydr. Cyl.**  
Like the **KL-0041-70 K**, however, without Hydraulic Cylinder



**Scope of Delivery:**

**KL-0041-711 A Wheel Bearing Tool Set, without Drive**

Part No.	Description	Qty
KL-0041-7101	Cover	1
KL-0041-7102	Support Sleeve with Bolts	1
KL-0041-7103	Supporting Plate	1
KL-0041-7104	Spacer Bolt, (18mm long)	3
KL-0041-7105	Spacer Bolt, (11mm long)	1
KL-0041-7106	Hexagon Socket Screw, M6x45mm	1
KL-0041-7107	Hexagon Socket Screw, M6x35mm	1
KL-0041-7120	Countersunk Screw, M6x30mm	3
KL-0039-1265	Pressure Ring, Ø 65mm	1
KL-0039-1282	Pressure Ring, Ø 82mm	1
KL-0039-1506	Centring Ring, Ø 60mm	1
KL-0041-7206	Spacer Sleeve, 8mm	3
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1

## KL-0041-70 K (Patented) Wheel Bearing Tool, VW/Audi/Škoda

**Suitable for front axle:**

**Compact wheel hub bearing units (bearing Ø 85mm) as found on Audi A3 (8P); Škoda Oktavia estate (1Z); VW Eos, Passat (3C), Golf (V), Tiguan and Touran; Compact wheel bearings (bearing Ø 85mm) as found on Audi A4 (8E), A4 (8K), A4 RS4 (8D), A5 (8T), A6 (4B), A6 (4F), A6 (4G), A7 (4G), A8 (4H), Q5 (8R); Seat Exeo (3R); VW Phaeton (3D).**

**Suitable for rear axle:**

**Compact wheel bearings as found on Audi A4 Quattro (8E), A5 Quattro (8T), A6 Quattro (4G), A7 Quattro (4G), Q5 Quattro (8R).**

The **KL-0041-70 K** wheel bearing tool is used in conjunction with hydraulic pump **KL-0215-35 M25** or **KL-0215-37 M25**, thus allowing for the quick and trouble-free removal of flanged one-piece compact wheel hub bearing units (bearing Ø 85mm). It also enables the separate removal and installation of wheel hubs and the removal of mounting flanges from two-piece compact wheel bearings. Even severely seized wheel bearings are no longer an issue using the 17t hydr. cylinder **KL-0040-2500**. The removal of the steering knuckle/stub axle is not necessary.

**Scope of Delivery: KL-0041-70 K Wheel Bearing Tool, VW/Audi/Škoda**

Part No.	Description	Qty
KL-0041-700 K	Wheel Bearing Tool without Hydraulic Cylinder, Audi / Škoda / VW	1
KL-0040-2500	Hydraulic Cylinder	1
KL-0041-7090	Plastic Storage Case	1

**Scope of Delivery: KL-0041-700 Wheel Bearing Tool without Hydraulic Cylinder**

Part No.	Description	Qty
KL-0041-701	Wheel Bearing Tool without Drive	1
KL-0039-1002	Retaining Adaptor for Clamping Nut and Pressure Spindle	1
KL-0039-1003	Retaining Adaptor for Hydraulic Cylinder	1
KL-0039-1920-1	Pull Spindle M20	1
KL-0039-1920-4	Clamping Nut, Ø 38mm	1

**Scope of Delivery: KL-0041-701 Wheel Bearing Tool without Drive**

Part No.	Description	Qty
KL-0041-732	Wheel Bearing Tool Upgrade Kit, Rear Axle	1
KL-0041-722	Upgrade Kit to KL-0041-71 A	1
KL-0041-711 A	Wheel Bearing Tool Set without Drive	1

**Scope of Delivery: KL-0041-732 Upgrade Kit for KL-0041-72**

Part No.	Description	Qty
KL-0039-2020-1	Pull Spindle, M20	1
KL-0041-7301	Perforated Puller Disc	1
KL-0041-7303	Puller Bolt (short), M14x1.5	3
KL-0041-7304	Adaptor	1
KL-0049-2004	Hex Nut, M14	3

**Scope of Delivery: KL-0041-722 Upgrade Kit for KL-0041-71 A**

Part No.	Description	Qty
KL-0041-7203	Support Plate	1
KL-0041-7204	Spacer Bolt, M12, 15mm	2
KL-0041-7111	Spacer Disc, 7mm	1
KL-0041-7207	Spacer Sleeve, 14mm	1
KL-0041-7211	Spacer Bolt, M12, 55mm	1
KL-0041-7302	Spacer Bolt, M12, 45mm	4
KL-0041-7212	Support Bolt, 27.5mm	2
KL-0041-7312	Support Bolt, 57.5mm	2
KL-0041-7313	Support Bolt, 45mm	2
KL-0041-7208	Adaptor	1
KL-0167-1413	Cheese Head Screw, M6x30mm	1
KL-0041-7210	Cheese Head Screw, M6x40mm	2
KL-0055-0012	Cheese Head Screw, M6x25mm	1
KL-0041-7306	Cheese Head Screw, M6x70mm	4
KL-0041-7213	Cheese Head Screw, M6x80mm	1
KL-0039-1275	Pressure Ring, Ø 75mm	1

## KL-0041-71 KA (Patented)

### Wheel Bearing Tool

in a Plastic Storage Case, Audi/Škoda/VW

Suitable for the compact wheel hub bearing units (bearing Ø 85mm) found on Audi A3 (8P); Škoda Octavia estate car (1Z); VW Eos, Passat (3C), Golf (V), Tiguan and Touran; as well as for the compact wheel bearings (bearing Ø 85mm) as found on Audi A4 (8E), Seat Exeo (3R2).

Used in conjunction with hydraulic pump KL-0215-35 M25 or KL-0215-37 M25, the KL-0041-71 KA wheel bearing tool allows for the quick and trouble-free removal of flanged one-piece compact wheel hub bearing units (bearing Ø 85mm). It also enables the separate removal and installation of wheel hubs and the removal of mounting flanges from two-piece compact wheel bearings. Using the KL-0040-2500 hydraulic cylinder (17t), even severely seized wheel bearings are no longer an issue. The removal of the steering knuckle is not necessary.

**Scope of Delivery: KL-0041-71 KA Wheel Bearing Tool in a Plastic Storage Case**

Part No.	Description	Qty
KL-0041-710 KA	Wheel Bearing Tool, Audi/Škoda/VW	1
KL-0040-2500	Hydraulic Cylinder, 17t	1

**Scope of Delivery: KL-0041-710 KA Wheel Bearing Tool without Hydraulic Cylinder**

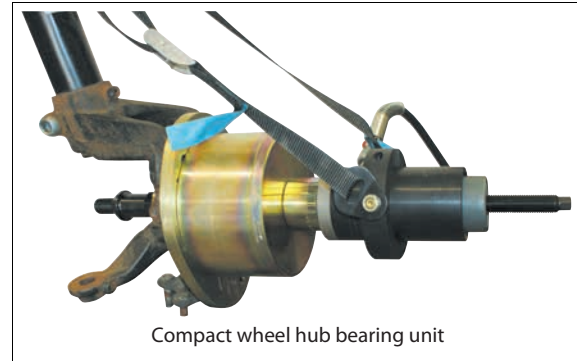
Part No.	Description	Qty
KL-0041-710 A	Wheel Bearing Tool without Hydraulic Cylinder	1
KL-0041-7090	Plastic Storage Case	1

**Scope of Delivery: KL-0041-710 A Wheel Bearing Tool without Hydraulic Cylinder**

Part No.	Description	Qty
KL-0041-711 A	Upgrade kit VW, Audi	1
KL-0039-1002	Retaining adaptor for clamping nut and pressure spindle with O-ring	1
KL-0039-1003	Retaining adaptor for hydr. cylinder with O-ring	1
KL-0039-1920-1	Pull spindle M20	1
KL-0039-1920-4	Clamping nut, Ø 38mm	1

**Scope of Delivery: KL-0041-711 A Wheel Bearing Tool Set, without Drive**

Part No.	Description	Qty
KL-0041-7101	Cover	1
KL-0041-7102	Support Sleeve with Bolts	1
KL-0041-7103	Supporting Plate	1
KL-0041-7104	Spacer Bolt, (18mm long)	3
KL-0041-7105	Spacer Bolt, (11mm long)	1
KL-0041-7106	Hexagon Socket Screw, M6x45mm	1
KL-0041-7107	Hexagon Socket Screw, M6x35mm	1
KL-0041-7120	Countersunk Screw, M6x30mm	3
KL-0039-1265	Pressure Ring, Ø 65mm	1
KL-0039-1282	Pressure Ring, Ø 82mm	1
KL-0039-1506	Centring Ring, Ø 60mm	1
KL-0041-7206	Spacer Sleeve, 8mm	3
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1



## KL-0041-711 KA (Patented)

### Wheel Bearing Tool Set without Drive,

in a Plastic Storage Case, Audi/Škoda/VW

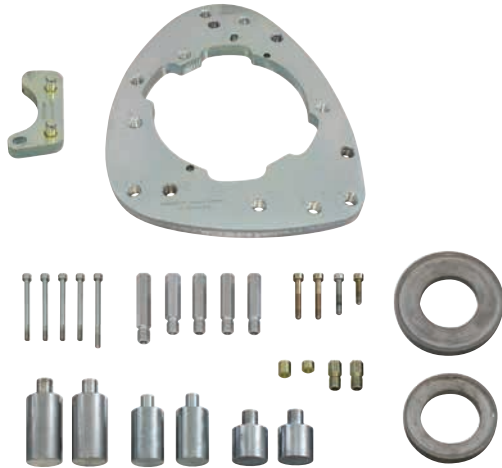
Suitable for the compact wheel hub bearing units (bearing Ø 85mm) found on Audi A3 (8P); Škoda Octavia estate car (1Z); VW Eos, Passat (3C), Golf (V), Tiguan and Touran; as well as for compact wheel bearings (bearing Ø 85mm) as found on Audi A4 (8E).

Used in conjunction with hydraulic pump KL-0215-35 M25 or KL-0215-37 M25, the KL-0041-711 KA wheel bearing tool allows for the quick and trouble-free removal of flanged one-piece compact wheel hub bearing units (bearing Ø 85mm). It also enables the separate removal and installation of wheel hubs and the removal of mounting flanges from two-piece compact wheel bearings. For this, the hydraulic cylinder KL-0040-2500, retaining adaptor KL-0039-1002, retaining adaptor KL-0039-1003, pull spindle M20 KL-0039-1920-1 and clamping nut (Ø 38mm) KL-0039-1920-4 are needed. The removal of the steering knuckle is not necessary.

**Scope of Delivery: KL-0041-711 KA Wheel Bearing Tool Set without Drive**

Part No.	Description	Qty
KL-0041-711 A	Wheel Bearing Tool Set, without Drive	1
KL-0041-7090	Plastic Storage Case	1





3

The **KL-0041-732** upgrade kit is used in conjunction with wheel bearing tool **KL-0041-72** and hydraulic pump **KL-0215-35 M25** or **KL-0215-37 M25**, thus enabling the quick and trouble-free removal of flanged one-piece compact wheel hub bearing units. Removal of the stub axle is not necessary.

## KL-0041-722

### Upgrade Kit for KL-0041-71 A

**Suitable for front axle:**

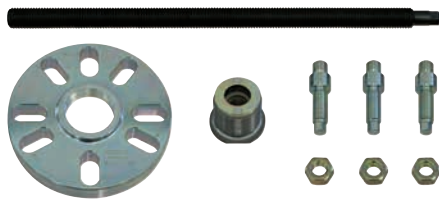
**Compact wheel bearing on Audi A4 (8E), A4 (8K), A4 RS4 (8D), A5 (8T), A6 (4B), A6 (4F), A6 (4G), A7 (4G), A8 (4H), Q5 (8R); Seat Exeo (3R); VW Phaeton (3D).**

**Suitable for rear axle:**

**Compact wheel bearing on Audi A4 Quattro (8E), A5 Quattro (8T), A6 Quattro (4G), A7 Quattro (4G), Q5 Quattro (8R).**

**Scope of Delivery: KL-0041-722 Upgrade Kit for KL-0041-71 A**

Part No.	Description	Qty
KL-0041-7203	Support Plate	1
KL-0041-7204	Spacer Bolt, M12, 15mm	2
KL-0041-7111	Spacer Disc, 7mm	1
KL-0041-7207	Spacer Sleeve, 14mm	1
KL-0041-7211	Spacer Bolt, M12, 55mm	1
KL-0041-7302	Spacer Bolt, M12, 45mm	4
KL-0041-7212	Support Bolt, 27.5mm	2
KL-0041-7312	Support Bolt, 57.5mm	2
KL-0041-7313	Support Bolt, 45mm	2
KL-0041-7208	Adaptor	1
KL-0167-1413	Cheese Head Screw, M6x30mm	1
KL-0041-7210	Cheese Head Screw, M6x40mm	2
KL-0055-0012	Cheese Head Screw, M6x25mm	1
KL-0041-7306	Cheese Head Screw, M6x70mm	4
KL-0041-7213	Cheese Head Screw, M6x80mm	1
KL-0039-1275	Pressure Ring, Ø 75mm	1



The upgrade kit **KL-0041-732** is used in conjunction with wheel bearing tool **KL-0041-72** and a hydraulic pump thus enabling the quick and trouble-free removal of flanged one-piece compact wheel hub bearing units. Removal of the stub axle is not necessary.

## KL-0041-732

### Upgrade Kit for KL-0041-72

**Suitable for rear axle:**

**Compact wheel hub bearing unit on Audi A6 (4F).**

**Scope of Delivery: KL-0041-732 Upgrade Kit for KL-0041-72**

Part No.	Description	Qty
KL-0039-2020-1	Pull Spindle, M20	1
KL-0041-7301	Perforated Puller Disc	1
KL-0041-7303	Puller Bolt (short), M14x1.5	3
KL-0041-7304	Adaptor	1
KL-0049-2004	Hex Nut, M14	3



Used in conjunction with the **KL-0041-72** wheel bearing tool and hydraulic pump **KL-0215-35 M25** or **KL-0215-37 M25**, the **KL-0041-713** upgrade kit allows for the quick and trouble-free removal of flanged one-piece compact wheel hub/wheel bearing units (bearing Ø 85mm). It can also be used for the separate removal and installation of wheel hubs and removal of mounting flanges from two-piece compact wheel bearings. The removal of the steering knuckle is not necessary.

**Note:**

With Audi A4 and Seat Exeo, the **KL-0041-71 A** as well as the **KL-0041-72** tool set can be used.

## KL-0041-713

### Upgrade Kit for KL-0041-72

**Suitable for front axle compact wheel hub bearing units (bearing Ø 85mm): Audi A3 (8P); Škoda Octavia estate car (1Z); VW Eos, Passat (3C), Golf (V), Tiguan and Touran;**

**compact wheel bearings (bearing Ø 85mm): Audi A4 (8E), Seat Exeo (3R2).**

**Scope of Delivery: KL-0041-713 Upgrade Kit to KL-0041-72**

Part No.	Description	Qty
KL-0041-7103	Support Plate	1
KL-0041-7104	Spacer Bolt, M12, 18mm long	3
KL-0041-7105	Spacer Bolt, M12, 11mm long	1
KL-0041-7106	Cheese Head Screw, M6x45mm	1
KL-0041-7107	Cheese Head Screw, M6x35mm	1
KL-0041-7206	Spacer Sleeve, 8mm	3
KL-0041-7120	Countersunk Screw, M6x30mm	3

# KL-0041-72 K (Patented)

## Wheel Bearing Tool

with Hydraulic Cylinder, in a Plastic Storage Case

**Suitable for front axle:**

**Compact wheel bearing on Audi A4 (8E), A4 (8K), A4 RS4 (8D), A5 (8T), A6 (4B), A6 (4F), A6 (4G), A7 (4G), A8 (4H), Q5 (8R); Seat Exeo (3R); VW Phaeton (3D).**

**Suitable for rear axle:**

**Compact wheel bearing on Audi A4 Quattro (8E), A5 Quattro (8T), A6 Quattro (4G), A7 Quattro (4G), Q5 Quattro (8R).**

Used in conjunction with hydraulic pump **KL-0215-35 M25** or **KL-0215-37 M25**, the **KL-0041-72 K** wheel bearing tool allows for the quick and trouble-free removal and installation of wheel hubs and the removal of mounting flanges from two-piece compact wheel bearings. Even severely seized wheel bearings are no longer an issue using the 17t hydraulic cylinder **KL-0040-2500**.

The removal of the steering knuckle/stub axle is not necessary.

**Scope of Delivery: KL-0041-72 K Wheel Bearing Tool, with Hydraulic Cylinder**

Part No.	Description	Qty
<b>KL-0041-72</b>	<b>Wheel Bearing Tool with Hydraulic Cylinder</b>	<b>1</b>
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-0041-7090	Plastic Storage Case	1

**Scope of Delivery: KL-0041-72 Wheel Bearing Tool, with Hydraulic Cylinder**

Part No.	Description	Qty
KL-0041-720	Wheel Bearing Tool, without Hydraulic Cylinder	1
KL-0040-2500	Hydraulic Cylinder	1

**Scope of Delivery: KL-0041-720 Wheel Bearing Tool, without Hydraulic Cylinder**

Part No.	Description	Qty
KL-0041-721	Wheel Bearing Tool, without Drive	1
KL-0039-1920-1	Pull Spindle M20	1
KL-0039-1920-4	Clamping Nut, Ø 38mm	1
KL-0039-1002	Retaining Adaptor for Clamping Nut and Pressure Spindle	1
KL-0039-1003	Retaining Adaptor for Hydraulic Cylinder	1

**KL-0041-720 K Wheel Bearing Tool, without Hydraulic Cylinder (not shown)**

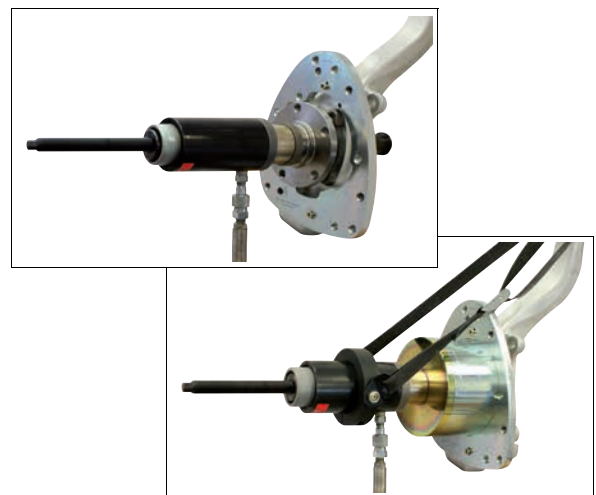
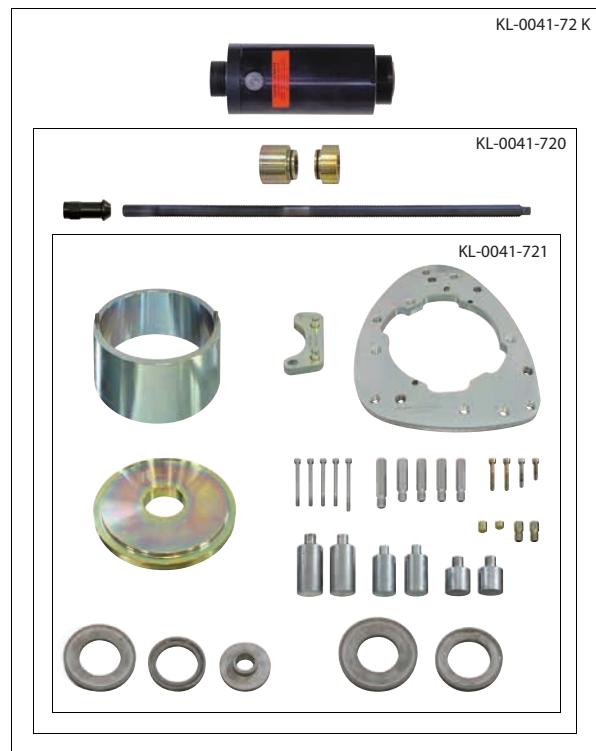
Like the **KL-0041-720**, but supplied in a plastic storage case

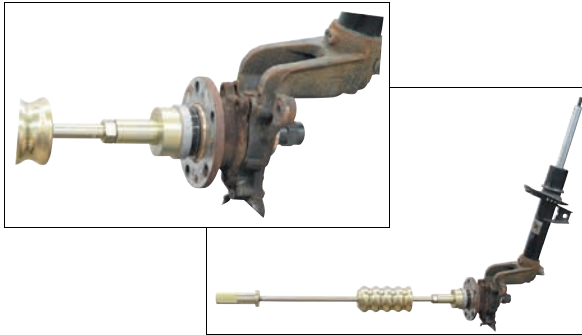
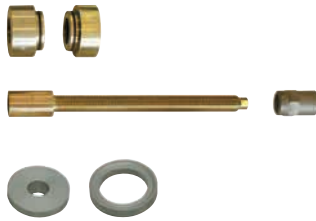
**KL-0041-721 K - Wheel Bearing Tool (not shown)**

Like the **KL-0041-721**, but supplied in a plastic storage case

**Scope of Delivery: KL-0041-721 Wheel Bearing Tool, without Drive**

Part No.	Description	Qty
KL-0041-7101	Cover	1
KL-0041-7102	Support Sleeve with Bolts	1
KL-0041-7203	Support Plate	1
KL-0041-7204	Spacer Bolt, M12, 15mm	2
KL-0041-7206	Spacer Sleeve, 8mm	1
KL-0041-7207	Spacer Sleeve, 14mm	1
KL-0041-7211	Spacer Bolt, M12, 55mm	1
KL-0041-7302	Spacer Bolt, M12, 45mm	4
KL-0041-7212	Supporting Bolt, 27.5mm	2
KL-0041-7312	Supporting Bolt, 57.5mm	2
KL-0041-7313	Supporting Bolt, 45mm	2
KL-0041-7208	Adaptor	1
KL-0167-1413	Cheese Head Screw, M6x30mm	1
KL-0041-7210	Cheese Head Screw, M6x40mm	2
KL-0055-0012	Cheese Head Screw, M6x25mm	1
KL-0041-7306	Cheese Head Screw, M6x70mm	4
KL-0041-7213	Cheese Head Screw, M6x80mm	1
KL-0039-1265	Pressure Ring, Ø 65mm	1
KL-0039-1275	Pressure Ring, Ø 75mm	1
KL-0039-1282	Pressure Ring, Ø 82mm	1
KL-0039-1290	Pressure Ring, Ø 90mm	1
KL-0039-1506	Centring Ring, Ø 60mm	1
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1





## KL-0049-320

### Wheel Bearing Puller, Audi/Seat/Škoda/VW

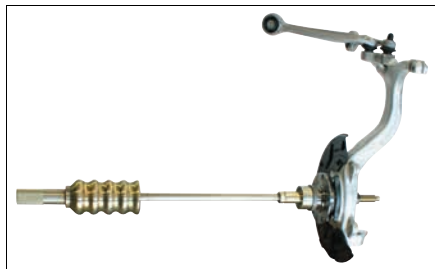
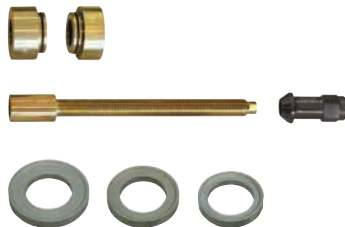
**Suitable for Audi A3 (8P); Seat Altea (5P), Leon (1P); Škoda Octavia estate car (1Z); VW Eos, Passat (3C), Golf V, Tiguan and Touran.**

Flange-mounted compact wheel bearings (bearing Ø 85mm) can easily and smoothly be extracted from the steering knuckle with the aid of the **KL-0049-320** wheel bearing puller in conjunction with the slide hammer **KL-0049-31** or **KL-0049-300**. Removal of the steering knuckle is not necessary.

**Scope of Delivery: KL-0049-320 Wheel Bearing Puller, Audi/Seat/Škoda/VW**

Part No.	Description	Qty
KL-0049-3200	Pull Spindle	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	2
KL-0039-1266	Pressure Ring, Ø 66mm	1
KL-0039-1506	Centring Ring, Ø 60mm	1
KL-0040-3009	Clamping Nut	1

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## KL-0049-330

### Wheel Bearing Puller, Audi

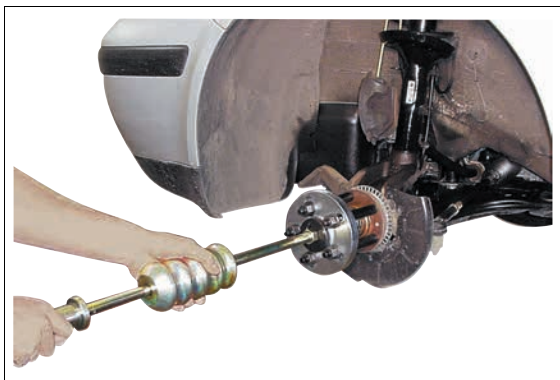
**Applicable to Audi A4 (8E), A6 (4B) and A8 (4D).**

The wheel hub and the flange-mounted compact wheel bearing (bearing Ø 85mm) can easily and smoothly be extracted from the steering knuckle by using the wheel bearing puller **KL-0049-330** in conjunction with slide hammer **KL-0049-31** or **KL-0049-300**. Removal of the steering knuckle is not necessary.

**Note:** With an already existing **KL-0049-320** wheel bearing puller, you will need for Audi A4 only pressure ring **KL-0039-1282** and clamping nut **KL-0039-1920-4**.

**Scope of Delivery: KL-0049-330 Wheel Bearing Puller, Audi**

Part No.	Description	Qty
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	2
KL-0039-1266	Pressure Ring, Ø 66mm	1
KL-0039-1281	Pressure Ring, Ø 81mm	1
KL-0049-3200	Pull Spindle	1
KL-0039-1920-4	Clamping Nut	1
KL-0039-1273	Pressure Ring, Ø 73mm	1



## KL-0049-31

### Slide Hammer Puller (4.8kg), with Adaptor 2 1/4"-14 UNS to M18

Designed to extract wheel hubs, half-shafts, drive shafts, brake drums etc. Used in conjunction with the **KL-0174-.. Puller Series**.

**Technical Data:**

Hammer weight:	4.8kg
Length:	690mm
Connection thread on pull rod:	M18

**Scope of Delivery:**

**KL-0049-31 Slide Hammer Puller, 4.8kg, with Adaptor 2 1/4"-14 UNS to M18**

Part No.	Description	Qty
KL-0049-3001	Pull Rod for KL-0049-3	1
KL-0049-3002	Hammer Weight (4.8kg) for KL-0049-3	1
KL-0049-3003	Handle for KL-0049-3	1
KL-0049-3004	Hex Nut, M18	1
KL-0174-545	Adaptor, 2 1/4"-14 UNS to M18	1

## KL-4031-3518

### Screwdriver Bit Socket, XZN-M18, 78mm, drive 1/2"

Suitable e.g. for Audi A3, VW Polo, Golf V etc.

This tool is designed to loosen and tighten rear axle wheel hub bearing unit fastening screws.



1/2"

**Technical Data:**

Drive:	1/2"
Size:	XZN-M18
Length:	78mm

## KL-4031-3512

### Screwdriver Bit Socket, XZN-M12, 78mm, drive 1/2"

For loosening and tightening XZN M12 fastening screws.

The ideal tool for wheel bearing fastening screws found on VW Golf VI etc.

Reinforced design, however, not suitable for use on impact wrenches.



1/2"

**Technical Data:**

Size:	XZN M12
Drive:	1/2"
Length:	78mm

## KL-4031-351 K

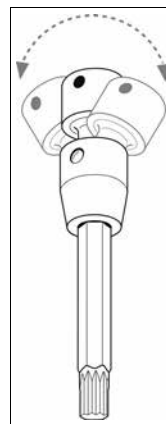
### Screwdriver Bit Socket Kit

Universal application. The ideal kit for VW-Audi, Seat, Škoda vehicles, e.g. Audi A3 (8P), VW Polo (6N), Golf IV (1J), Golf V (1K), Passat (3C), Touran (1T), T4, T5; Seat Altea (5P) etc.

For loosening and tightening XZN fastening screws, for example those on brake calipers, wheel bearings, wheel-hub bearing units, suspension ball joints, drive shafts. Also suitable for shock absorber mount clamping screws on steering knuckles etc.

**Scope of Delivery: KL-4031-351 K Screwdriver Bit Socket Kit**

Part No.	Description	Qty
KL-4031-3512	Screwdriver Bit Socket, XZN-M12, 78mm, 1/2"	1
KL-4031-3514	Screwdriver Bit Socket, XZN-M14, 78mm, 1/2"	1
KL-4031-3518	Screwdriver Bit Socket, XZN-M18, 78mm, 1/2"	1
KL-0232-8	Flexible Multi-Tooth Socket, XZN M10	1
KL-4031-3590	Plastic Storage Case	1



## KL-4007-411

### Swivel Head Breaker Bar, 3/4", 980mm

Extra long design (980mm), with 180° swivel head. Ideal for loosening extremely tight/stuck screws.

**Technical Data:**

Drive:	3/4"
Overall length:	980mm



## KL-4031-4118

### Screwdriver Bit Socket, XZN-M18, 3/4"

Suitable for the wheel bearing central screws found at the rear axle of VW Golf V, Audi A3, Seat Altea etc.

The KL-4031-4118 Screwdriver Bit Socket (XZN-M18, 3/4") is used with a 3/4" breaker bar such as the KL-4007-411 for the loosening, and in conjunction with a 3/4" torque wrench for the tightening, of the wheel bearing central screw at the rear axle.



**Technical Data:**

Drive:	3/4"
Size (waf):	XZN-M18
Maximum load capacity:	800Nm

**Accessories (on demand):**

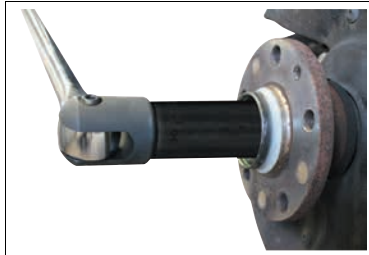
1993 U-20 CODE:1436686 - Reversible ratchet



DMK 200 CODE:2641240

Torque Wrench Dremaster 40-200Nm





## KL-4014-4224

### Bi-Hex Socket, 24mm

**Applicable to VW Golf (VI, VII), Scirocco, Tiguan, Touran, Passat (3C), Passat CC; Audi A3, TT; Seat Leon, Altea; Škoda Octavia (1Z), Superb (3T) etc.**

This socket is needed for the loosening/tightening of lock nuts/screws as found on rear and front axle drive shafts, wheel bearings, as well as on gearbox/differential flanges. The ideal tool to loosen/tighten the drive shaft central fastening screw on VW-Audi, Seat, Škoda vehicles.

#### Technical Data:

Drive:	3/4"
Length:	90mm
Size (waf):	24mm
Profile:	bi-hex

#### Accessories (on demand):

**1993 U-20** CODE:1436686 - Reversible ratchet



**DMK 200** CODE:2641240

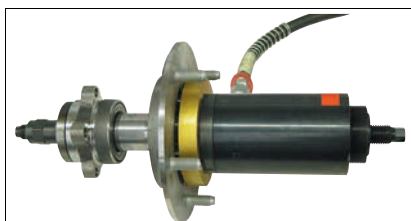
**Torque Wrench Dremaster 40-200Nm**



3



KL-0040-860



Mounting the wheel bearing onto the hub

## KL-0040-86

### Wheel Bearing Tool Set with Hydraulic Cylinder (28t), Ford Transit

**Suitable for all the Ford Transit models from 2002 onwards equipped with brake disc fastening screws with pitch circle diameter 97.5 and 111mm, as well as for Tourneo front axle on vehicles with front or rear wheel drive.**

To replace the specified brake discs or wheel bearings, it is usually necessary to pull out the wheel bearing along with the hub and brake disc from the wheel bearing housing. This tool set allows the removal and installation of the wheel bearing to be carried out in situ on the vehicle within a few minutes, without having to dismount the wheel bearing housing.

#### Note:

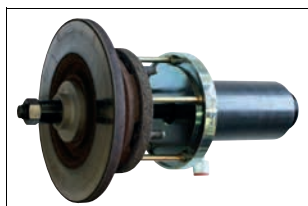
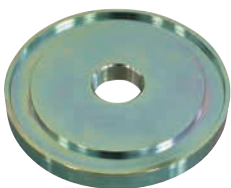
A hydraulic pump such as **KL-0215-35 M28** is required to drive the hydr. cyl. **KL-0040-2800**.

#### Scope of Delivery: KL-0040-86 Wheel Bearing Tool Set with Hydr. Cyl. (28t)

Part No.	Description	Qty
<b>KL-0040-860</b>	<b>Wheel Bearing Tool Set, without Hydraulic Cylinder (28t)</b>	<b>1</b>
KL-0040-2800	Hydraulic Cylinder (28t)	1
KL-0040-2812-1	Pull Spindle, M24x590mm	1
KL-0040-2812-2	Clamping Nut, M24, Ø 42mm	1

#### Scope of Delivery: KL-0040-860 Wheel Bearing Tool Set without Hydr. Cyl.

Part No.	Description	Qty
KL-0040-8601	Pressure Disc, Ø 77mm	1
KL-0040-8602	Pressure Disc, Ø 68mm	1
KL-0040-8501 A	Pressure Ring	1
KL-0039-1823-4	Cheese Head Screw, M10x120mm	5
KL-0040-8503	Mandrel	5



## KL-0040-861

### Upgrade Kit, Ford Transit Rear Axle

**Suitable for Ford Transit (from 2006 onwards) rear axle, with front wheel drive.**

For removing the brake disc from wheel hub bearing units. Used in conjunction with wheel bearing tool set **KL-0040-86**.

#### Scope of Delivery: KL-0040-861 Upgrade Kit, Ford Transit Rear Axle

Part No.	Description	Qty
KL-0040-8611	Pressure Disc, Ø 93mm	1
KL-0040-8612	Pressure Ring, Ø 186mm	1

# MANUFACTURING PROCESS FOR SOCKETS

3

- 1** Blank cropped to size from 31CrV3
- 2** Hot forged in the forging press.
- 3** Accurately cropped to size.
- 4** Outside diameter turned and knurled. For this step and the next, GEDORE uses high-tech machinery from its in-house mechanical engineering department.
- 5** Counterbored, square socket drive is fluted (ball-stop flute), manufacturer and socket size are permanently stamped.
- 6** Degreased, since grease would destroy the protective gas atmosphere in hardening.
- 7** Hardened under protective gas atmosphere, followed by annealing.
- 8** Sand blasted in preparation for surface coating.
- 9** Nickel-plated and matt-chrome-plated to prevent dazzle. The electrolytically applied nickel coating ensures corrosion protection. The electroplated chrome improves the look and gives the socket a perfect finish.

**Pro GEDORE**

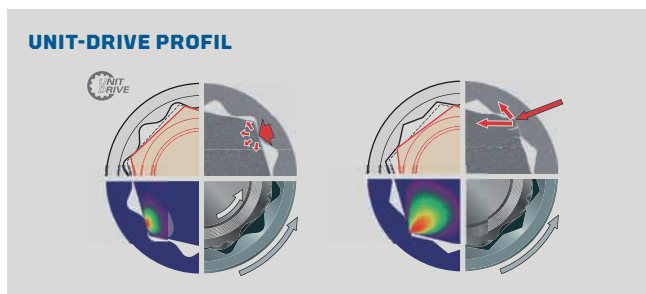
- > Use of high alloy 31CrV3 steel
- > Heat formed sockets which have a wear resistant, fine-grained structure and have a long service life
- > Narrow production tolerances ensure an ideal load transmission and low wear and guarantee a long service life
- > Distinctive ball catch ensure secure fit on the square drive
- > Good grip due to deep knurling even when held with oily hands or when working with protective gloves
- > Good look due to chrome plating and varnishing
- > Broad range in all sizes, drive and drive-side and for a wide range of screw types. One of the most diverse ranges in the market.

(\* ) Not applicable to 1/4" hexagonal sockets

Like all hot-forged tools, GEDORE sockets (\*) are characterised by their homogeneous structure. The fibres run in parallel with the contour of the tool. The uninterrupted fibre orientation prevents residual stresses in the structure. In cold-forged tools, the fibres or lines of stress may deviate. Fibre orientation is equally important in nature.

For example, in a tree, the soft fibre orientation is parallel to the branch, so the wood is resistant to bending and twisting. If fibres become kinked, the branch loses its stability at the kink point and breaks. The low-stress GEDORE sockets withstand suddenly occurring peak forces better than cold formed sockets.

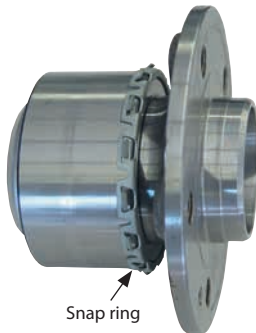
(\* ) Not applicable to 1/4" hexagonal sockets





## Wheel Hub Bearing Unit extraction with the aid of puller KL-0041-38

Wheel hub bearing unit

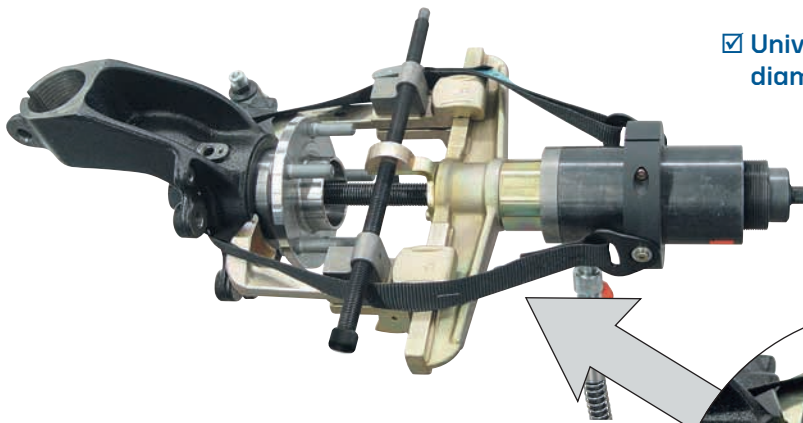


### The problem with the extraction:

Very high pulling forces need to be applied in order to extract wheel hub bearing units that are equipped with a snap ring. The resistance of this safety snap ring needs to be overcome when removing the bearing unit, which will prove to be an even more difficult task in case of rust and corrosion. This also means that when extracting the wheel bearing, the locking teeth break and the snap ring is destroyed. Due to the high tensile force that needs to be applied, standard wheel bearing pulling devices with a mechanical spindle are not suitable to perform this task.

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### Extracting a wheel hub bearing unit with the aid of wheel hub puller KL-0041-38



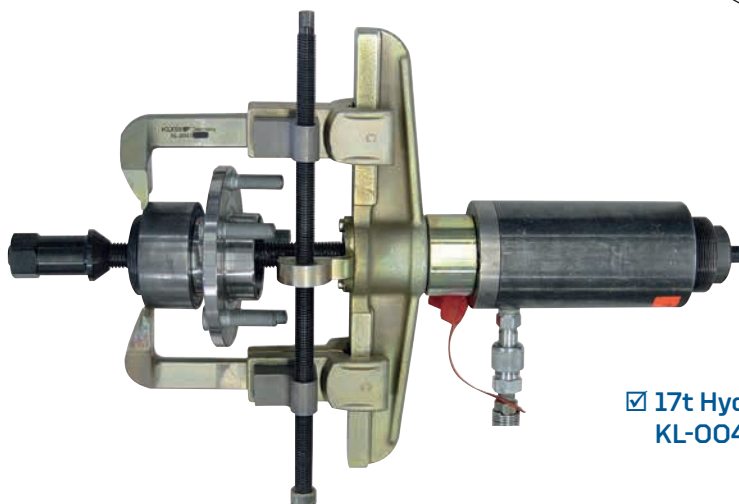
☑ Universally suitable for wheel hubs having a diameter of up to 250mm.

☑ Adjusting spindle with pre-setting feature allows for easy application of the tool.

☑ Universal

☑ Accurate

☑ Simple



☑ The two support surfaces and the spacer plates offer universal support possibilities.

☑ Easy to use  
One-hand operation

☑ 17t Hydr. Cylinder  
KL-0040-2500

Wheel Hub Bearing Unit insertion with the aid of tool set KL-0041-...

(Patented)

**The problem with the insertion:**

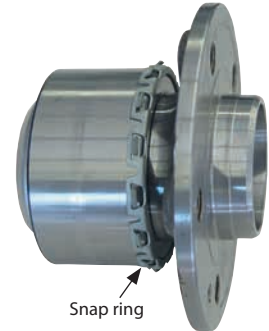
A particular feature of this new wheel bearing design is that the outer safety ring used to secure the wheel bearing in the housing has been replaced with an innovative snap ring fixed on the wheel hub side. The wheel hub and the wheel bearing are no longer separated but a complete unit. This means that the wheel hub bearing unit can no longer, as in the past, be inserted by means of a pressure piece under a press or by using standard wheel bearing tools.

In order to prevent damage to the wheel bearing, it is very important that the pressure force is applied evenly only on the outer bearing race during installation. Without the appropriate tools, the bearing can only be inserted into the wheel bearing housing by pressing on the wheel hub. In this procedure, however, the wheel hub will damage the new wheel bearing.

With the aim to provide the perfect solution for the correct removal and installation of this kind of wheel hub bearing units, GEDORE Automotive have designed an innovative specialist wheel bearing tool which can be positioned behind the wheel hub at the outer bearing race, on the snap ring. As a result, the wheel bearing is pressed in via the outer bearing race, and the snap ring securely latches into place.

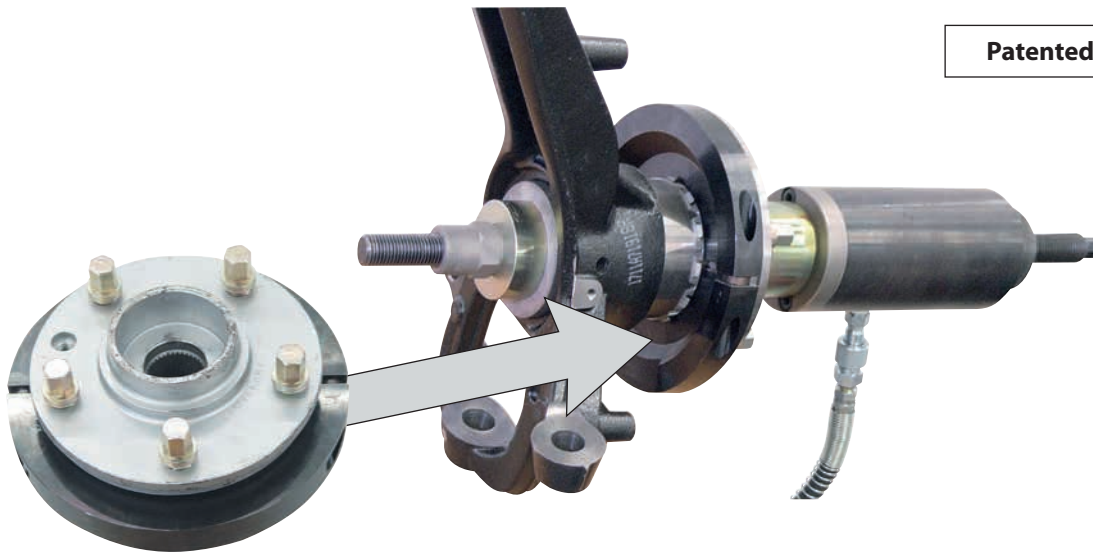
The additional use of the **KL-0040-2500** hydraulic cylinder allows for easy and hassle-free installation of the new wheel hub bearing unit within just a few minutes - without any risk of damage to the components.

Wheel hub bearing unit



3

Inserting a wheel hub bearing unit with the aid of a wheel hub bearing tool of the KL-0041-4.. Series

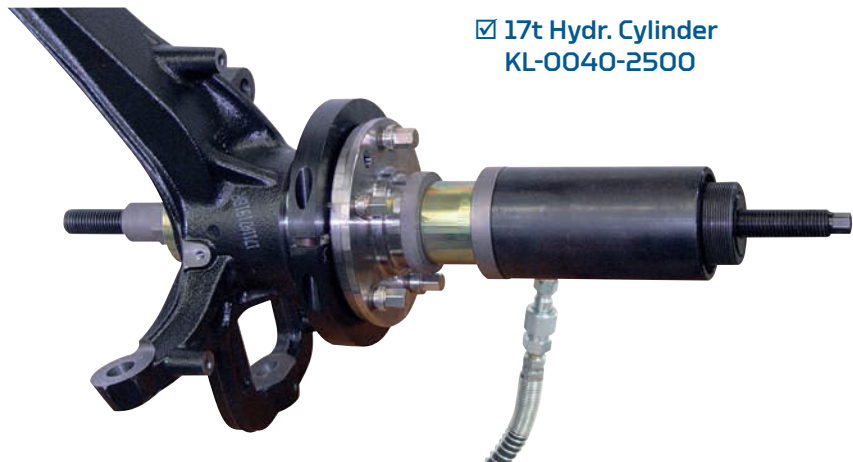


☑ Quick

☑ Safe

☑ Easy

☑ 17t Hydr. Cylinder  
KL-0040-2500



## KL-0039-801 B

### Mechanical Drive Kit for Wheel Hub Tools

Required to mechanically operate the wheel hub puller **KL-0041-380**.

The ball bearing and the integrated guide of the pull spindle and clamping nut in the adaptor enable professional and efficient working.

**Scope of Delivery:**

**KL-0039-801 B Mechanical Drive Kit for Wheel Hub Tools**

Part No.	Description	Qty
KL-0039-1011	Retaining Adaptor for Mechanical Spindle	1
KL-0039-2030	Pull Spindle, M20 (overall length: 420mm)	1
KL-0039-1332	Centring Ring, Ø 32mm	1
KL-0039-1920-4	Clamping Nut, Ø 38mm	1
KL-0041-3812	Clamping Nut, Ø 30mm	1



3

## KL-0039-801 A

### Mechanical Drive Kit, 390mm

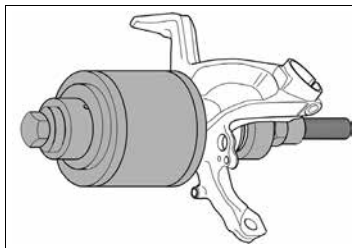
Necessary to mechanically operate the wheel bearing tools of the **KL-0039-..** and **KL-0041-4.. Series**.

The ball bearing and the integrated guide of the pull spindle and clamping nut in the retaining adaptor ensure professional and efficient working.

**Scope of Delivery:**

**KL-0039-801 A Mechanical Drive Kit, 390mm**

Part No.	Description	Qty
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1011	Retaining Adaptor for Mechanical Spindle	1
KL-0039-2030	Pull Spindle, M20 (overall length: 420mm)	1
KL-0040-3009	Clamping Nut	1



## KL-0041-38

### Wheel Hub Puller, with Hydraulic Cylinder

Wheel hub bearing units or wheel hubs having a diameter of up to 250mm can be extracted quickly, safely and professionally by using the **KL-0041-38** wheel hub puller. Even bonded, seized or heavily corroded wheel hub bearing units or wheel hubs are no longer an issue thanks to the **KL-0040-2500** hydraulic cylinder.

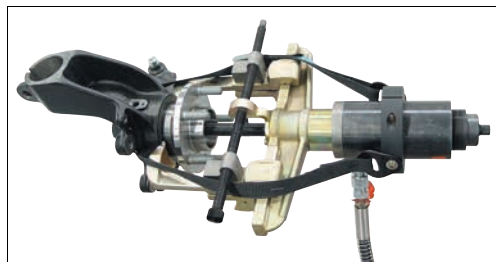
**Note:**

- The plates **KL-0041-3821** and **KL-0041-3822** are used as spacer/adjustment plates. They are necessary when, while extracting a wheel hub, the support takes place via the bottom side of the hooks and if the supporting surface is not even.
- A hydraulic pump is required to drive the hydraulic cylinder **KL-0040-2500**.

**Scope of Delivery:**

**KL-0041-38 Wheel Hub Puller, with Hydraulic Cylinder**

Part No.	Description	Qty
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0039-1920-1	Pull Spindle, M20	1
KL-0041-380	Wheel Hub Puller with Adjusting Spindle, without Hydr. Cyl.	1



**Scope of Delivery:**

**KL-0041-380 Wheel Hub Puller, with Adjusting Spindle, without Hydr. Cyl.**

Part No.	Description	Qty
KL-0041-3800	Wheel Hub Puller (Base Tool with Adjusting Spindle)	1
KL-0041-3802	Adaptor, M42x2	1
KL-0039-1920-4	Clamping Nut, Ø 38mm	1
KL-0041-3812	Clamping Nut, Ø 30mm	1
KL-0041-3821	Plate with Magnet, 4mm	1
KL-0041-3822	Plate with Magnet, 6mm	1

## KL-0041-380 K

### Wheel Hub Puller, without Hydr. Cyl., in a Plastic Storage Case

Wheel hub bearing units or wheel hubs having a diameter of up to 250mm can be extracted quickly, safely and professionally by using the **KL-0041-380** wheel hub puller. For this, the hydraulic cylinder **KL-0040-2500** and pull spindle **M20x550mm KL-0039-1920-1** are necessary.

**Note:**

The plates **KL-0041-3821** and **KL-0041-3822** are used as spacer/adjustment plates. They are necessary when, while extracting a wheel hub, the support takes place via the bottom side of the hooks and if the supporting surface is not even.

**Scope of Delivery: KL-0041-380 K Wheel Hub Puller, without Hydraulic Cylinder**

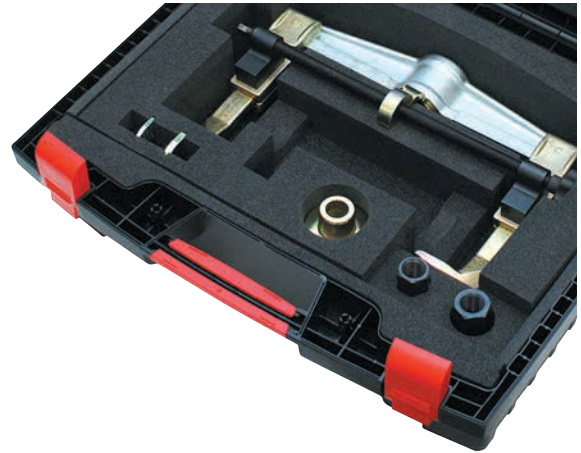
Part No.	Description	Qty
<b>KL-0041-380 E</b>	<b>Wheel Hub Puller, without Hydraulic Cylinder, in a Foam Insert</b>	<b>1</b>
KL-4999-1391	Plastic Storage Case	1

**Scope of Delivery: KL-0041-380 E Wheel Hub Puller, without Hydraulic Cylinder**

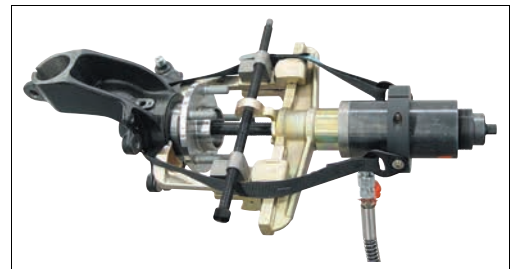
Part No.	Description	Qty
<b>KL-0041-380</b>	<b>Wheel Hub Puller, without Hydraulic Cylinder</b>	<b>1</b>
KL-4999-1315	Foam Insert	1

**Scope of Delivery: KL-0041-380 Wheel Hub Puller, with Adjusting Spindle**

Part No.	Description	Qty
KL-0041-3800	Wheel Hub Puller (Base Tool with Adjusting Spindle)	1
KL-0041-3802	Adaptor, M42x2	1
KL-0039-1920-4	Clamping Nut, Ø 38mm	1
KL-0041-3812	Clamping Nut, Ø 30mm	1
KL-0041-3821	Plate with Magnet, 4mm	1
KL-0041-3822	Plate with Magnet, 6mm	1



3



## KL-0041-42

(Patented)

### Wheel Bearing Tool with Hydr. Cyl., Audi A2/VW Lupo, (Bearing Ø 62mm)

**Suitable for vehicles with bearing Ø of 62mm, e.g. Audi A2, VW Lupo etc.**

The **KL-0041-42** wheel bearing tool set enables the quick and safe installation of wheel hub bearing units without the risk of damaging these.

**Note:**

- The wheel hub puller **KL-0041-38** is needed for removing wheel hub- /bearing units.
- A hydraulic pump is necessary to drive the hydraulic cylinder **KL-0040-2500**.

**Scope of Delivery: KL-0041-42 Wheel Bearing Tool with Hydraulic Cylinder, Audi A2/VW Lupo, (Bearing Ø 62mm)**

Part No.	Description	Qty
KL-0040-2500	Hydraulic Cylinder, 17t	1
<b>KL-0041-420</b>	<b>Wheel Bearing Tool, Lupo (Ø 62mm), without hydraulic cylinder</b>	<b>1</b>

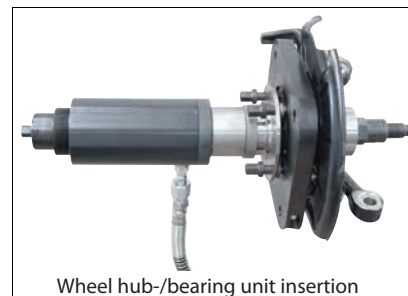
**Scops of Delivery: KL-0041-420 Wheel Bearing Tool without Drive, Audi A2/VW Lupo, (Bearing Ø 62mm)**

Part No.	Description	Qty
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	1
KL-0039-1920-1	Pull Spindle, M20	1
KL-0040-3009	Clamping Nut	1
<b>KL-0041-421</b>	<b>Upgrade Kit, Lupo, Ø 62mm</b>	<b>1</b>

**Scope of Delivery:**

**KL-0041-421 Upgrade Kit, Audi A2/VW Lupo, (bearing-Ø 62mm)**

Part No.	Description	Qty
KL-0041-4200	Clamping Shells (Pair), Ø 62mm	1
KL-0041-3921	Pressure Screw, M12x1.5	4
KL-0039-1265	Pressure Ring, Ø 65mm	1
KL-0039-1359	Centring Ring, Ø 59mm	1
KL-0041-4204	Pressure- /Support Sleeve	1



Wheel hub-/bearing unit insertion



### Technical Data:

Max. load capacity of hydraulic cylinder:	17t
Max. load capacity of pull spindle:	20t
Weight:	15.8kg

## KL-0041-43 B

(Patented)

### Wheel Bearing Tool with Hydraulic Cylinder, Polo/Fabia, Ø 66mm

Suitable for vehicles with bearing Ø of 66mm, e.g. VW Polo (2002 onwards), Škoda Fabia (2000 onwards) etc.

The KL-0041-43 B wheel bearing tool set enables the quick and safe installation of wheel hub bearing units without the risk of damaging them.

**Note:** To remove wheel hub bearing units, the KL-0041-38 wheel hub puller is needed.

#### Scope of Delivery: KL-0041-43 B Wheel Bearing Tool with Hydraulic Cylinder

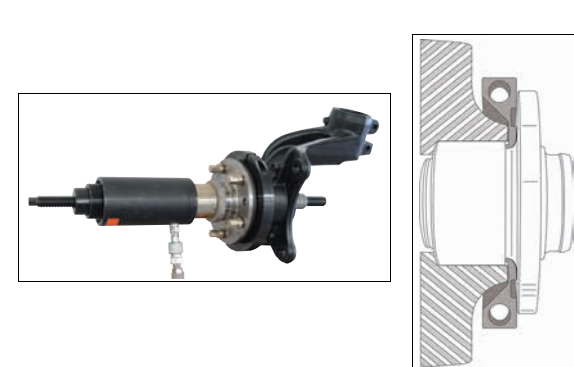
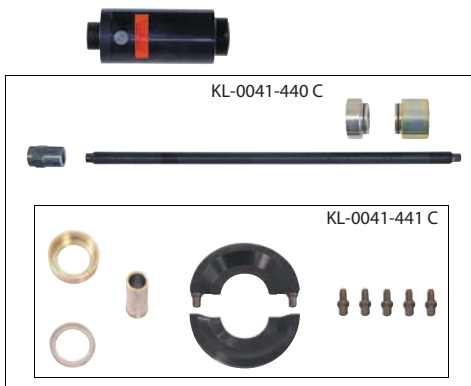
Part No.	Description	Qty
KL-0041-430 B	Wheel Bearing Tool without Hydraulic Cylinder, Ø 66mm	1
KL-0040-2500	Hydraulic Cylinder (17t)	1

#### Scope of Delivery: KL-0041-430 B Wheel Bearing Tool without Hydr. Cyl.

Part No.	Description	Qty
KL-0039-1002	Retaining adaptor for clamping nut and pressure spindle with O-ring	1
KL-0039-1003	Retaining adaptor for hydraulic cylinder with O-ring	1
KL-0039-1920-1	Pull spindle M20	1
KL-0040-3009	Clamping nut	1
KL-0041-431 B	Upgrade Kit Polo / Fabia Ø 66 mm	1

#### Scope of Delivery: KL-0041-431 B Upgrade Kit, Bearing Ø 66mm

Part No.	Description	Qty
KL-0041-4300 B	Clamping jaws (pair) Ø 66mm	1
KL-0041-3931	Pressure screw M14x1.5	5
KL-0039-1265	Pressure ring Ø 65mm	1
KL-0041-4204	Pressure- / Support Sleeve	1



### Technical Data:

Max. load capacity of pull spindle:	20t
Max. load capacity of hydraulic cylinder:	17t
Weight:	15.8kg

## KL-0041-44 C

(Patented)

### Wheel Bearing Tool with 17t Hydraulic Cylinder, Polo, Bearing Ø 72mm

Suitable for vehicles with bearing Ø of 72mm (both with and without snap ring [such as SKF bearings]) e.g. Audi A2 (from 2000 onwards), Seat Ibiza (from 2002 onwards), Škoda Fabia (from 2000 onwards) and VW Polo (from 2002 onwards), Fox, etc.

The KL-0041-44 C wheel bearing tool enables the quick and safe installation of wheel hub bearing units without the risk of damaging them. Due to the particular design of the wheel hub bearing units, conventional installation by means of a thrust piece under a workshop press or by using standard wheel bearing tools is no longer feasible. This is because with this type of bearing, the outer bearing race is covered by the wheel hub. GEDORE Automotive have come up with a solution to this problem with the specifically designed clamping shells which are mounted against the wheel bearing outer race behind the wheel hub, thus allowing for professional installation of the wheel hub bearing units. The clamping shells feature a securing collar designed to ensure that wheel hub bearing units without snap ring are pressed in completely/into deepened position. For the removal of wheel hub bearing units, the wheel hub puller KL-0041-38 is needed.

#### Scope of Delivery: KL-0041-44 C Wheel Bearing Tool with Hydraulic Cylinder

Part No.	Description	Qty
KL-0040-2500	Hydraulic-Cylinder 17 t	1
KL-0041-440 C	Wheel Bearing Tool without Hydr. Cyl. (17t), Bearing Ø 72mm	1

#### Scope of Delivery: KL-0041-440 C Wheel Bearing Tool, Bearing Ø 72mm

Part No.	Description	Qty
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	1
KL-0039-1920-1	Pull Spindle, M20	1
KL-0040-3009	Clamping Nut	1
KL-0041-441 C	Upgrade Kit, Polo, Bearing Ø 72mm	1

#### Scope of Delivery: KL-0041-441 C Upgrade Kit, Polo, Bearing Ø 72mm

Part No.	Description	Qty
KL-0041-4400 C	Clamping Shells (Pair), Ø 72mm	1
KL-0041-3931	Pressure Screw, M14x15	5
KL-0039-1802	Centring Sleeve, long, Ø 27.4mm	1
KL-0039-1265	Pressure Ring, Ø 65mm	1
KL-0039-1674	Pressure/Support Sleeve, short, Ø 74mm	1

## KL-0041-45 B (Patented)

### Wheel Bearing Tool Kit with Hydraulic Cylinder, VW T5 (Bearing Ø 85mm)

Suitable for vehicles with bearing Ø of 85mm such as VW T5 (front and rear axle), VW Touareg and Porsche Cayenne (front axle).

The wheel bearing tool KL-0041-45 B enables the quick and safe installation of wheel hub bearing units without the risk of damaging them.

**Note:**

- The wheel hub puller KL-0041-38 is required to remove wheel hub bearing units.
- A hydraulic pump is required to drive the hydraulic cylinder KL-0040-2500.

**Scope of Delivery: KL-0041-45 B Wheel Bearing Tool Kit with Hydraulic Cylinder**

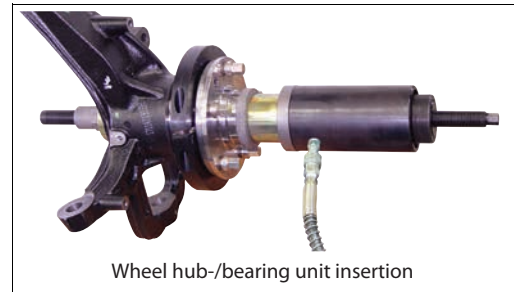
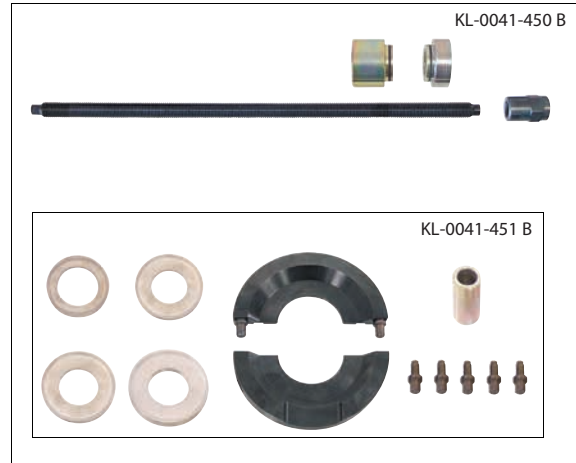
Part No.	Description	Qty
KL-0040-2500	Hydraulic Cylinder, 17t	1
<b>KL-0041-450 B</b>	<b>Wheel Bearing Tool without Hydr. Cyl., VW-T5 (Bearing Ø 85mm)</b>	<b>1</b>

**Scope of Delivery: KL-0041-450 B Wheel Bearing Tool without Hydr. Cyl.**

Part No.	Description	Qty
<b>KL-0041-451 B</b>	<b>Upgrade Kit, VW T5, Ø 85mm</b>	<b>1</b>
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	1
KL-0039-1920-1	Pull Spindle, M20	1
KL-0040-3009	Clamping Nut	1

**Scope of Delivery: KL-0041-451 B Upgrade Kit, VW-T5 (Bearing Ø 85mm)**

Part No.	Description	Qty
KL-0041-4500 B	Clamping Shells (Pair), Ø 85mm	1
KL-0041-3931	Pressure Screw, M14x1.5	5
KL-0039-1502	Pressure Ring, Ø 93mm	1
KL-0039-1803	Centring Sleeve (long), Ø 29.7mm	1
KL-0039-1273	Pressure Ring, Ø 73mm	1
KL-0039-1283	Pressure Ring, Ø 83mm	1
KL-0039-1289	Pressure Ring, Ø 89mm	1



## KL-0041-40 A

### Wheel Bearing Tool Kit with Hydr. Cyl.

Suitable for vehicles with bearing Ø of 75mm, such as Mitsubishi Colt Model (Z30) and Smart Forfour (W454), front axle.

The KL-0041-40 A wheel bearing tool kit is used in conjunction with the KL-0215-35 M25 or KL-0215-37 M25 hydraulic pump, thus allowing for the quick and safe installation of wheel hub bearing units without any risk of damaging them. Due to its special design, the tool ensures that, while mounting the unit, the applied pressing force is distributed on the outer bearing race only and not on the wheel hub. This prevents damage to the bearing. The removal of the steering knuckle from the vehicle is not necessary.

**Scope of Delivery: KL-0041-40 A Wheel Bearing Tool Kit with Hydraulic Cylinder**

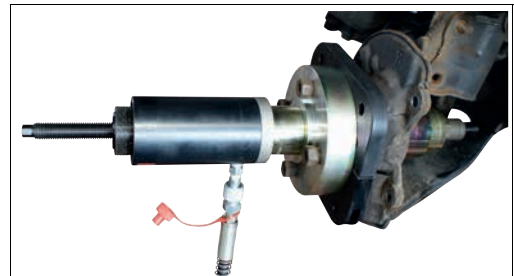
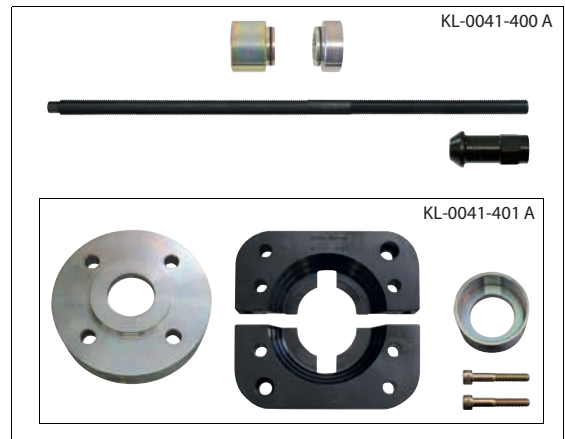
Part No.	Description	Qty
<b>KL-0041-400 A</b>	<b>Wheel Bearing Tool Kit without Hydraulic Cylinder</b>	<b>1</b>
KL-0040-2500	Hydraulic Cylinder, 17t	1

**Scope of Delivery: KL-0041-400 A Wheel Bearing Tool Kit without Hydr. Cyl.**

Part No.	Description	Qty
KL-0041-401 A	Upgrade Kit, Mitsubishi/Smart	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	1
KL-0039-1920-1	Pull Spindle, M20	1
KL-0039-1920-4	Clamping Nut, Ø 38mm	1

**Scope of Delivery: KL-0041-401 A Upgrade Kit, Mitsubishi/Smart**

Part No.	Description	Qty
KL-0041-4011 A	Clamping Jaw with Thread	1
KL-0041-4012 A	Clamping Jaw without Thread	1
KL-0041-4014 A	Pressure/Support Sleeve	1
KL-0039-1674	Pressure/Support Sleeve, short, Ø 74/66mm	1
KL-0177-2023	Cheese Head Screw, M10x60mm	1



3



### Advantages:

- Eliminates the need for follow-up wheel alignments.
- The (17t) **KL-0040-2500** hydraulic cylinder can universally be used on other GEDORE Automotive tools to exert pulling or pushing force.

## KL-0041-51 K

(Patented)

### Wheel Bearing Tool Kit with 17t Hydr. Cyl., Mercedes Vito/Viano/Sprinter, VW Crafter

**Designed for the front axle of Mercedes-Benz Vito/Viano (W639), Sprinter (906), and VW Crafter (2E/2F) vehicles equipped with rear-wheel drive.**

This tool allows the removal and installation of wheel hub bearing units on the specified front axles to be performed in situ on the vehicle. The **KL-0041-51 K** wheel bearing tool kit, in conjunction with the wheel hub bearing unit from FAG (Schaeffler Automotive Aftermarket), provides you with an alternative solution for professional repairs. At present, the vehicle manufacturers Mercedes-Benz und Volkswagen only offer complete steering knuckles with a pre-assembled wheel hub bearing unit for these types of repairs. This option, however, would involve further costs and additional work such as a follow-up wheel alignment.

#### Scope of Delivery: KL-0041-51 K Wheel Bearing Tool Kit with 17t Hydr. Cyl.

Part No.	Description	Qty
<b>KL-0041-510 K</b>	<b>Wheel Bearing Tool Kit without 17t Hydraulic Cylinder</b>	<b>1</b>
KL-0040-2500	Hydraulic Cylinder	1

#### Scope of Delivery: KL-0041-510 K Wheel Bearing Tool Kit without 17t Hydr. Cyl.

Part No.	Description	Qty
KL-0041-500 K	Wheel Bearing Tool Kit without 17t Hydraulic Cylinder	1
KL-0041-5030	Upgrade Kit, Pull/Pressure Plate for Bearing-Ø 92mm	1



## KL-0041-50 K

(Patented)

### Wheel Bearing Tool Kit with Hydr. Cyl., Mercedes Sprinter/VW Crafter

**Designed for the front axle of Mercedes Sprinter (906) and VW Crafter (2E/2F) vehicles equipped with rear-wheel drive.**

This tool allows the removal and installation of wheel hub bearing units on the specified front axles to be performed in situ on the vehicle. The **KL-0041-50 K** wheel bearing tool kit, in conjunction with the wheel hub bearing unit from FAG (Schaeffler Automotive Aftermarket), provides you with an alternative solution for professional repairs. At present, the vehicle manufacturers Mercedes-Benz und Volkswagen only offer complete steering knuckles with a pre-assembled wheel hub bearing unit for these types of repairs. This option, however, would involve further costs and additional work such as a follow-up wheel alignment.

#### Scope of Delivery: KL-0041-50 K Wheel Bearing Tool Kit with Hydraulic Cylinder

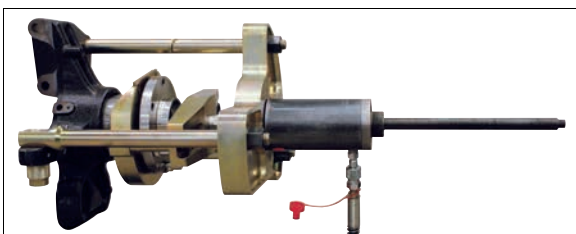
Part No.	Description	Qty
<b>KL-0041-500 K</b>	<b>Wheel Bearing Tool Kit without Hydraulic Cylinder 17t</b>	<b>1</b>
KL-0040-2500	Hydraulic Cylinder	1

#### Scope of Delivery: KL-0041-500 K Wheel Bearing Tool Kit without 17t Hydr. Cyl.

Part No.	Description	Qty
<b>KL-0041-501</b>	<b>Base Tool</b>	<b>1</b>
<b>KL-0041-502</b>	<b>Pull/Pressure Plate with Bridge, for Bearing Ø 96mm</b>	<b>1</b>
KL-0041-5090	Plastic Storage Case	1

#### Scope of Delivery: KL-0041-501 Base Tool, Mercedes Sprinter/VW Crafter

Part No.	Description	Qty
KL-0041-5001	Base Plate	1
KL-0041-5002	Supporting Rod with Transverse Bore	1
KL-0041-5003	Screw with Cone, M16x1.5x80mm	1
KL-0041-5004	Disc, Ø 19mm	1
KL-0041-5005	Hexagon Socket Screw, M14x70mm	1
KL-0041-5006	Shoulder Nut M18	1
KL-0041-5007	Reinforcing Rail, 140mm	1
KL-0041-5008	Reinforcing Rail, 275mm	1
KL-0041-5009	Supporting Rod 275mm	1
KL-0041-5010	Adaptor 2¼"-14 UNS to M42x2	1
KL-0041-5011	Pull/Pressure Spindle, M20x600mm	1
KL-0041-5012	Steering Knuckle Mounting Bracket	1
KL-0041-5013	Pressure Nut with Guide Pin	1



### Advantages:

- Eliminates the need for follow-up wheel alignments.
- The 17t **KL-0040-2500** hydraulic cylinder can universally be used on other GEDORE Automotive tools to exert pulling or pushing force.

### Scope of Delivery:

#### KL-0041-502 Pull/Pressure Plate with Bridge for Bearing-Ø 96mm

Part No.	Description	Qty
KL-0041-5020	Pull/Pressure Plate for Bearing Ø 96mm	1
KL-0041-5021	Bridge with Thread Insert	1
KL-0041-5022	Spacer Sleeve, Ø 27x50mm	1
KL-0041-5023	Hexagon Socket Screw, M16x90mm	1
KL-0041-5024	Knurled Screw M14x1.5	1
KL-0041-5025	Retaining Pin with O-Ring	1

## KL-0041-5030 (Patented)

Pull/Pressure Plate Kit, for Bearing Ø 92mm, Mercedes Vito/Viano (W636)

Designed for the front axle of Mercedes Vito/Viano (W636) vehicles equipped with rear-wheel drive. The kit requires the wheel bearing tool KL-0041-50.



Scope of Delivery: KL-0041-5030 Pull/Pressure Plate Kit

Part No.	Description	Qty
KL-0041-5030-1	Pull/Pressure Plate for Bearing Ø 92mm	1
KL-0041-5030-2	Closing Plate	1

## KL-0041-504

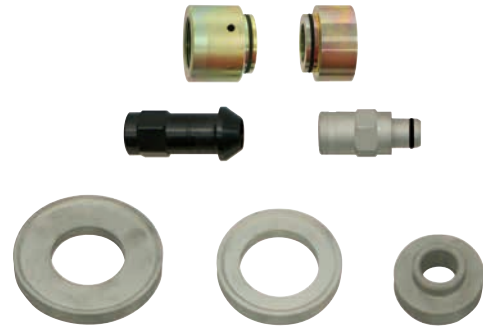
Upgrade Kit, MB Sprinter/VW Crafter with All-Wheel Drive

Designed for the front axle of Mercedes Sprinter (906) and VW Crafter (2E/2F) vehicles equipped with all-wheel drive.

The kit allows the removal and installation of wheel bearings and hubs. For this, the wheel bearing tool KL-0041-50 K or KL-0041-51 K is necessary.

Scope of Delivery: KL-0041-504 Upgrade Kit, MB Sprinter/VW Crafter with All-Wheel Drive

Part No.	Description	Qty
KL-0039-1002	Retaining Adaptor for Clamping Nut M20	1
KL-0039-1003	Retaining Adaptor for Hydraulic Cylinder	1
KL-0039-1920-4	Clamping Nut, Ø 38mm	1
KL-0041-506	Upgrade Kit (small kit), MB Sprinter all-wheel drive	1
KL-0041-5041	Pressure Nut with Guide	1



## KL-0041-506

Upgrade Kit (Small Kit), Mercedes Sprinter/VW Crafter with All-Wheel Drive

Designed for the front axle on Mercedes Sprinter (906) and VW Crafter (2E/2F) vehicles equipped with all-wheel drive.

The kit allows the removal and installation of wheel bearings and hubs. For this, the wheel bearing tool KL-0041-50 K or KL-0041-51 K, retaining adaptor KL-0039-1002, retaining adaptor KL-0039-1003, clamping nut KL-0039-1920-4, and pressure nut KL-0041-5041 are necessary.

Scope of Delivery: KL-0041-506 Upgrade Kit (Small Kit)

Part No.	Description	Qty
KL-0039-1351	Centring Ring, Ø 51mm	1
KL-0039-1270	Pressure Ring, Ø 70mm	1
KL-0039-1295	Pressure Ring, Ø 95mm	1



## KL-0041-505

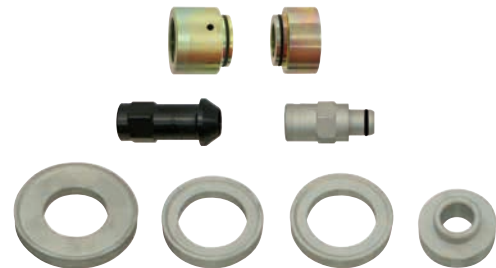
Upgrade Kit, Mercedes Vito/Viano All-Wheel Drive

Designed for the front axle on Mercedes Vito/Viano (W639) vehicles equipped with all-wheel drive.

The kit allows the removal and installation of wheel bearings and hubs. For this, the wheel bearing tool KL-0041-50 K or KL-0041-51 K is necessary.

Scope of Delivery: KL-0041-505 Upgrade Kit, Mercedes Vito/Viano All-Wheel Drive

Part No.	Description	Qty
KL-0039-1002	Retaining Adaptor for Clamping Nut M20	1
KL-0039-1003	Retaining Adaptor for Hydraulic Cylinder	1
KL-0041-507	Upgrade Kit (small kit), Vito/Viano all-wheel drive	1
KL-0041-5041	Pressure Nut with Guide	1
KL-0039-1920-4	Clamping Nut, Ø 38mm	1



## KL-0041-507

Upgrade Kit (Small Kit), Mercedes Vito/Viano with All-Wheel Drive

Designed for the front axle on Mercedes Vito / Viano (W639) equipped with all-wheel drive.

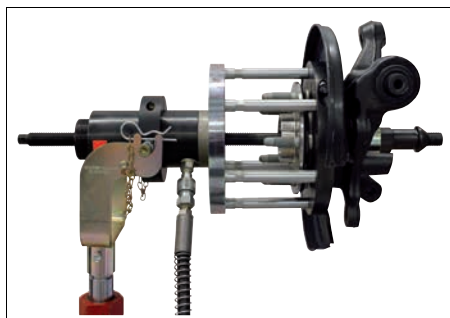
The kit allows the removal and installation of wheel bearings and hubs. For this, the wheel bearing tool KL-0041-50 K or KL-0041-51 K, retaining adaptor KL-0039-1002, retaining adaptor KL-0039-1003, and pressure nut KL-0041-5041 are necessary.

Scope of Delivery: KL-0041-507 Upgrade Kit (Small Kit)

Part No.	Description	Qty
KL-0039-1350	Centring Ring, Ø 50mm	1
KL-0039-1270	Pressure Ring, Ø 70mm	1
KL-0039-1274	Pressure Ring, Ø 74mm	1
KL-0039-1291	Pressure Ring, Ø 91mm	1







## KL-0040-87

### Wheel Bearing Removal Tool Kit with Hydraulic Cylinder (17t), Opel/Vauxhall Insignia

Designed for the compact wheel hub bearing units found at the front and rear axle of Opel/Vauxhall Insignia models from 2008 onwards.

The **KL-0040-87** wheel bearing tool is used in conjunction with a hydraulic pump (such as **KL-0215-35 M25** or **KL-0215-37 M25**), thus allowing for the quick and trouble-free removal of flanged one-piece compact wheel hub bearing units from the front and rear axle. Even severely seized wheel bearings are no longer an issue using the **KL-0040-2500** hydraulic cylinder (17t). The removal of the steering knuckle/stub axle is not necessary.

**Scope of Delivery: KL-0040-87 Wheel Bearing Removal Tool Kit with Hydr. Cyl.**

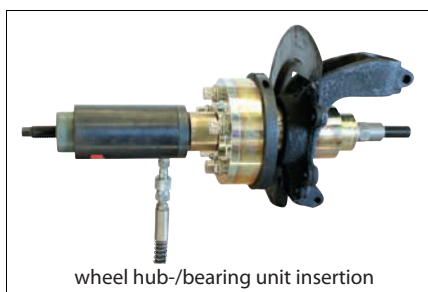
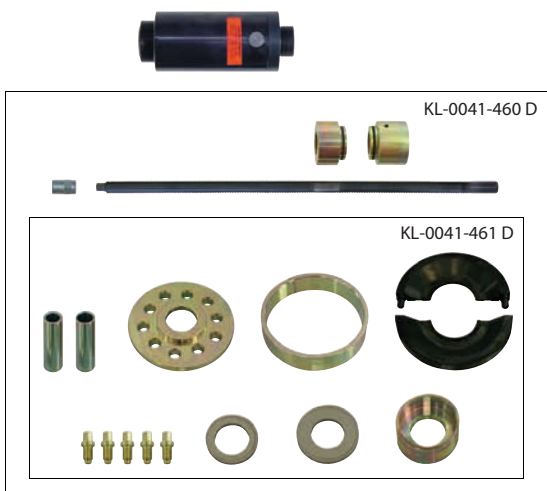
Part No.	Description	Qty
<b>KL-0040-870</b>	<b>Wheel Bearing Removal Tool Kit without Hydraulic Cylinder</b>	<b>1</b>
KL-0040-2500	Hydraulic Cylinder (17t)	1

**Scope of Delivery: KL-0040-870 Wheel Bearing Removal Tool Kit without Hydr. Cyl.**

Part No.	Description	Qty
<b>KL-0040-871</b>	<b>Upgrade Kit to Wheel Bearing Removal Tool Kit</b>	<b>1</b>
KL-0039-1002	Retaining Adaptor for Clamping Nut	1
KL-0039-1920-1	Pull Spindle, M20	1
KL-0039-1920-4	Clamping Nut, Ø 38mm	1

**Scope of Delivery: KL-0040-871 Upgrade Kit for Wheel Bearing Removal Tool Kit**

Part No.	Description	Qty
KL-0040-8701	Clamping Jaw with Thread	1
KL-0040-8702	Clamping Jaw without Thread	1
KL-0040-8703	Bolt	1
KL-0040-8704	Cheese Head Screw, M10x35mm	1
KL-0040-8612 A	Pressure Ring, Ø 210mm	1
KL-0039-1506	Centring Ring, Ø 60mm	1



## KL-0041-46 D

### Wheel Bearing Tool with Hydraulic Cylinder, Volvo/Ford/Mazda

Suitable for vehicles with bearing Ø of 78mm; e.g. Ford Focus II, C-Max (10/03 onwards); Mazda 3 (from 10/03 to 06/09) Volvo C30, C70 II, S40 II, V50; and bearing-Ø 82mm; e.g. Ford S-Max (2006 onwards), Galaxy (2006 onwards), Mondeo IV (2006 onwards); Volvo S60 II, S80 II, V60, V70 III (10/2007 onwards), XC60, XC70 II.

Designed for the quick and safe installation of wheel hub bearing units in-situ on the vehicle. Due to its special design, the tool ensures that while installing the unit the applied pressing force is distributed on the outer bearing race only, and not on the wheel hub. This prevents damage to the bearing. Professional installation of wheel hub bearing units is almost impossible without the use of this tool kit.

**Scope of Delivery: KL-0041-46 D Wheel Bearing Tool with Hydraulic Cylinder**

Part No.	Description	Qty
KL-0040-2500	Hydraulic Cylinder, 17t	1
<b>KL-0041-460 D</b>	<b>Wheel Bearing Tool without Hydraulic Cylinder, Volvo/Ford/Mazda</b>	<b>1</b>

**Scope of Delivery: KL-0041-460 D Wheel Bearing Tool without Hydraulic Cylinder**

Part No.	Description	Qty
<b>KL-0041-461 D</b>	<b>Upgrade Kit, Volvo</b>	<b>1</b>
KL-0039-1002	Retaining adaptor for clamping nut and pressure spindle with O-ring	1
KL-0039-1003	Retaining adaptor for hydraulic cylinder with O-ring	1
KL-0039-1920-1	Pull Spindle, M20	1
KL-0040-3009	Clamping Nut	1

**Scope of Delivery: KL-0041-461 D Upgrade Kit for Wheel Hub Bearing Unit Installation**

Part No.	Description	Qty
KL-0041-4600 D	Clamping Jaws (pair), Ø 78mm	1
KL-0041-4607	Housing	1
KL-0041-4608 D	Cover	1
KL-0039-1288	Pressure Ring, Ø 88mm	1
KL-0041-3931	Pressure Screw, M14x1.5	5
KL-0041-4601	Guide Sleeve, Ø 29.5mm	1
KL-0039-1272	Pressure Ring, Ø 72mm	1
KL-0041-4602	Guide Sleeve, Ø 26.3mm	1
KL-0039-1682	Pressure/Support Sleeve, short, Ø 82mm	1

**Note:**

- To remove wheel hub bearing units, the wheel hub puller **KL-0041-38** is required.
- To drive the hydraulic cylinder **KL-0040-2500**, a hydraulic pump is required.

# SPANNERS OVERVIEW

## Durable and for high loadings

- › For heavy continuous use and safety in everyday work
- › High torque - GEDORE quality spanners do not fracture or splinter when overloaded, but deform under incorrect use, therefore posing a lower risk of injury to the user
- › Comfortable to hold due to ergonomic profiles without sharp edges
- › Secure grip even with oily hands
- › Non-glare look thanks to matt chrome-plating



## A well-functioning extended range

- › Extremely large selection in standardised and non-standardised, metric (mm), imperial (AF) and Whitworth (W) sizes
- › Top-grade industrial quality for the hardest of continuous use
- › Available individually or in practical sets or modules
- › Customised manufacturing, designs and types on request

## Everything safely under control

- › Use of the very best raw materials, state-of-the-art machinery and environmentally-friendly production processes
- › Tools without chrome VI have been a given thing for several years
- › Our tool experts guarantee precision-like processing and permanent development
- › Unique manufacturing processes and special tool treatment for optimum results
- › Stringent quality checks after each production step ensure a constantly high level
- › Professional service through to development of special customised tools

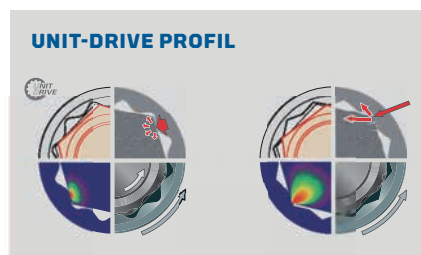


## Precision, correct measurements and perfect fit

- › The most important requirements a safe working environment
- › Complete transmission of available torque
- › Long life of nut and bolt
- › Profiles easy on the bolt heads (UD, jaw, hexagon)
- › Minimum production tolerances ensure that spanners fit perfectly on bolts



3



### KL-0174 - Puller Series



The **KL-0174-.. Puller Series** is designed to cover a variety of applications. Used in conjunction with the 17t hydraulic cylinder **KL-0040-2500** and pressure spindle **KL-0039-1930** or 12t hydraulic spindle **KL-0045-7**, it allows for the professional removal of drive shafts which are bonded with Loctite or corroded in place. With the additional aid of the **KL-0049-31** slide hammer puller, also wheel hubs, brake drums and half shaft can be pulled off properly. The puller series works in situ on the vehicle.

The **KL-0174- Puller Series** can easily be upgraded to an all-purpose puller-system by combining the different puller plates, puller bolts, and drives.

#### Range of Applications:

- **Removing drive shafts with the aid of a mechanical or hydraulic drive.**  
Even corroded, bonded or very stubborn drive shafts can be removed properly using the **KL-0040-2500** 17t hydraulic cylinder and **KL-0039-1930** pressure spindle.

- **Extracting wheel hubs, half shaft, brake drums with the aid of slide hammer puller KL-0049-31.**

The additional use of the **KL-0049-31** slide hammer puller allows the professional removal of wheel hubs, brake drums and half shafts to be performed in situ on the vehicle.

#### Wheel Hubs

Standard Hub,  
4 Wheel bolts

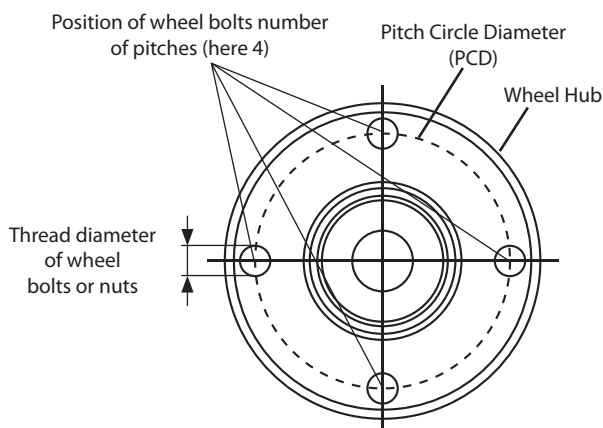
Standard Hub,  
5 Wheel nuts

4X4 Off-Road,  
6 Wheel nuts



**In order to ensure the appropriate puller from the KL-0174 Series is used, the following important data must be known:**

- Pitch Circle Diameter (PCD) and number of wheel fixing points (3-, 4-, 5-, or 6-hole).
  - Important in order to determine the appropriate plate size with the correct number of fixing points.
- Thread dimensions of the wheel bolts (Type B) or wheel nuts (Type M).
  - Important in order to determine the correct puller bolts having either an inner or an outer thread.
- What drive is to be used: a mechanical spindle, a hydraulic spindle, a hydraulic cylinder or a slide hammer puller?
  - Important in order to determine the correct adaptor (see table).

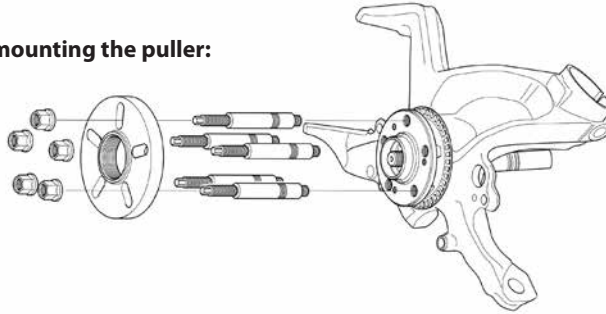


**KL-0174 - Puller Series**

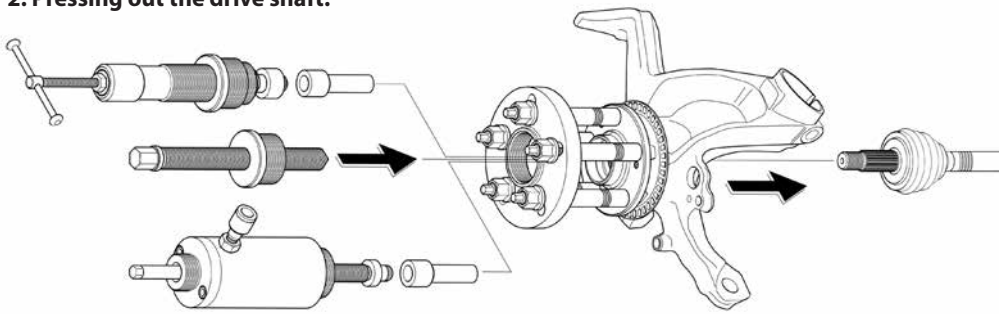
**Components for the assembly of a puller from the KL-0174...Puller Series.**

The puller plates (size 0, 1, 2 and 3) in combination with the different adaptors, spindles, puller bolts, screws and drives can easily be assembled to an all-purpose puller-system.

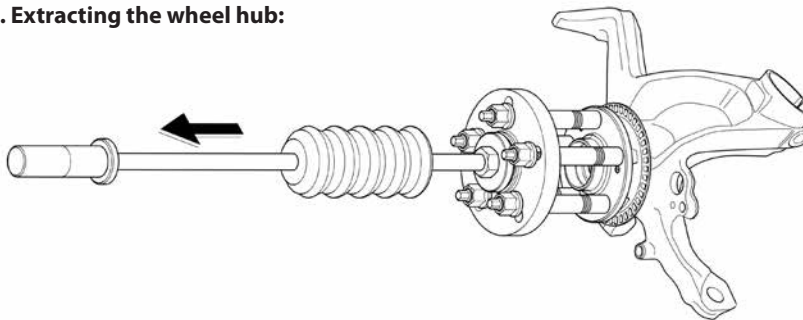
**1. Assembling and mounting the puller:**



**2. Pressing out the drive shaft:**

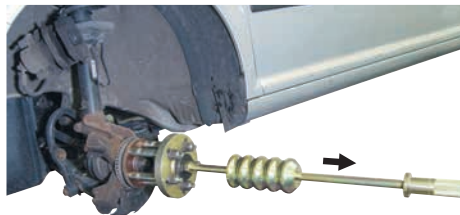


**3. Extracting the wheel hub:**



**Examples of use:**

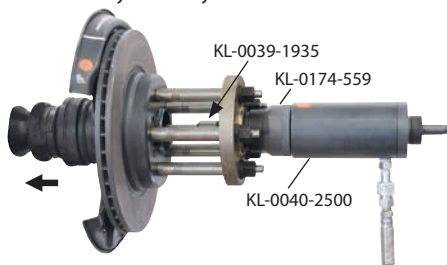
Removing a hub using the slide hammer



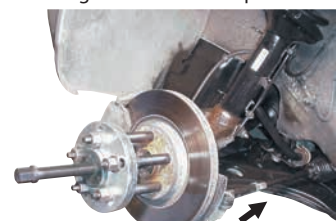
Pressing out the drive shaft flange



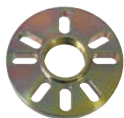
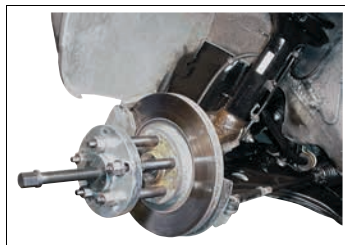
Pressing out the drive shaft using the 17t hydraulic cylinder.



Pressing out the drive shaft using the mechanical spindle.



3



**Note:**  
The universal puller set **KL-0174-110** can easily be upgraded with additional puller discs, adaptors, spindles and puller bolts.

## KL-0174-110

### Puller Set

**Application:** VW-Audi, Alfa Romeo, BMW, Fiat, Ford, Mercedes, Opel/Vauxhall, Porsche, Renault, Seat, Škoda, etc.

Designed to press out drive shafts mechanically. Even bonded, corroded or heavily seized drive shafts are no longer an issue by using the 17t hydraulic cylinder (available as accessory).

**Scope of Delivery:** KL-0174-110 Puller Set

Part No.	Description	Qty
KL-0174-240	Puller Plate, size 2 (3-, 4- and 5-hole)	1
KL-0174-723	Puller Bolt, type B, M12x1.5 (l=100)	4
KL-0174-724	Puller Bolt, type B, M14x1.5 (l=100)	4
KL-0174-701	Hex Shoulder Nut, M14	4
KL-0174-547	Adaptor 2¼"-14 UNS to M20x2	1
KL-0174-620	Spindle, M20x2x230mm	1

## KL-0174-111

### Puller Set with Slide Hammer Puller

**Suitable for** VW-Audi, Alfa Romeo, BMW, Fiat, Ford, Mercedes, Opel/Vauxhall, Porsche, Renault, Seat, Škoda, etc.

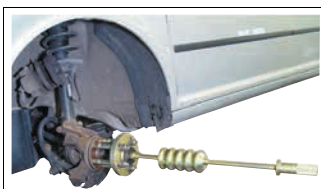
This set is designed to mechanically press out drive shafts with the aid of pressure spindle M20. It can also be used in conjunction with the slide hammer puller to remove wheel hubs, half-shafts etc.

Even bonded, corroded or severely seized shafts can be pressed out without any trouble using the 17t hydraulic cylinder (accessory) instead of the M20 pressure spindle.

**Note:**  
The **KL-0174-111** Universal Puller Set can be further enhanced with additional puller plates, adaptors, spindles and puller bolts.

**Scope of Delivery:** KL-0174-111 Puller Set with Slide Hammer

Part No.	Description	Qty
KL-0174-240	Puller Plate, Size 2 (3-, 4- and 5-hole)	1
KL-0174-723	Puller Bolt, Type B, M12x1.5 (l=100)	4
KL-0174-724	Puller Bolt, Type B, M14x1.5 (l=100)	4
KL-0174-701	Hex Shoulder Nut, M14	4
KL-0174-547	Adaptor, 2¼"-14 UNS to M20x2	1
KL-0174-620	Spindle, M20x2x230	1
KL-0049-31	Slide Hammer Puller, 4.8kg	1



## KL-0174-150 K

### Puller Set, in a Plastic Storage Case

**Suitable for** VW-Audi, Alfa Romeo, BMW, Citroën, Fiat, Ford, Honda, Hyundai, KIA, Lancia, Mazda, Mercedes, Mini, Mitsubishi, Nissan, Opel/Vauxhall, Peugeot, Porsche, Renault, Seat, Škoda, Smart, Suzuki, Toyota, Volvo etc.

The tools of this set are designed to be used with the **KL-0040-2500** hydraulic cylinder for pressing out drive shafts. The set can also be used in conjunction with the **KL-0049-31** slide hammer puller to extract wheel hubs, full-floating axles etc.

**Scope of Delivery:** KL-0174-150 Puller Set

Part No.	Description	Qty
KL-0039-1935	Thrust Piece	1
KL-0174-559	Adaptor	1
KL-0174-701	Hex Shoulder Nut M14	4
KL-0174-240	Puller Plate, Size 2 (3-, 4- and 5-hole)	1
KL-0174-722	Puller Bolt Type B, M12x1.25	4
KL-0174-723	Puller Bolt Type B, M12x1.5	4
KL-0174-724	Puller Bolt Type B, M14x1.5	4
KL-0174-727	Puller Bolt Type B, M14x1.25	4
KL-0174-762	Puller Bolt Type M, M12x1.25	4
KL-0174-763	Puller Bolt Type M, M12x1.5	4
KL-0174-764 A	Puller Bolt Type M, M14x1.5	4



**Scope of Delivery:**

**KL-0174-150 K Puller Set, in a Plastic Storage Case**

Part No.	Description	Qty
KL-0174-150 E	Puller Set in a Foam Insert	1
KL-4999-1391	Plastic Storage Case	1

**Scope of Delivery:**

**KL-0174-150 E Puller Set (for Wheel Hubs etc.), in a Foam Insert**

Part No.	Description	Qty
KL-0174-150	Puller Set (for wheel hubs, etc.)	1
KL-4999-1316	Foam Insert	1

## KL-0174-... Puller Plates

### Components for the assembly of a Puller from the Puller-Series KL-0174-...

The puller plates can be assembled to an all-purpose puller-system by using different adaptors, spindles, puller bolts, screws and drives.

### KL-0174-020 Puller Plate, Size 0

#### Technical Data:

Spindle Inner Thread:	M16x1.5
PCD:	40-88mm
Outer-Ø:	108mm
Fixing Hole Pattern:	2, 3, 4-hole pitch

KL-0174-020



KL-0174-140



### KL-0174-140 Puller Plate, Size 1 (3-, 4- and 5-hole)

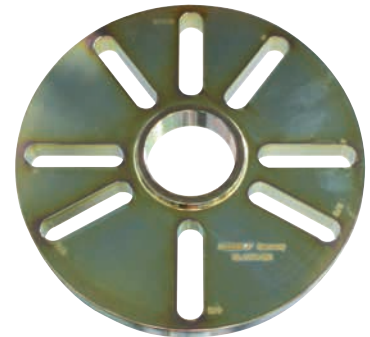
#### Technical Data:

Spindle Inner Thread:	M42x2
PCD:	76-105mm
Outer-Ø:	130mm
Fixing Hole Pattern:	2, 3, 4, 5, 6-hole pitch

KL-0174-240



KL-0174-360



### KL-0174-240 Puller Plate, Size 2 (3-, 4- and 5-hole)

#### Technical Data:

Spindle Inner Thread:	2¼"-14 UNS
PCD:	90-130mm
Outer-Ø:	160mm
Fixing Hole Pattern:	2, 3, 4, 5, 6-hole pitch

### KL-0174-360 Puller Plate, Size 3 (3-, 4- and 5-hole)

#### Technical Data:

Spindle Inner Thread:	2¼"-14 UNS
PCD:	100-180mm
Outer-Ø:	220mm
Fixing Hole Pattern:	2, 3, 4, 5, 6-hole pitch

## KL-0174-... Adaptors

### Component for the assembly of a Puller from the KL-0174-...Puller-Series.

Part No.	Description
KL-0174-510	Adaptor M42x2 to M14
KL-0174-511	Adaptor M42x2 to M14x1,5
KL-0174-513	Adaptor M42x2 to M16x1,5
KL-0174-515	Adaptor M42x2 to M18x1,5
KL-0174-516	Adaptor M42x2 to M18x2,5
KL-0174-517	Adaptor M42x2 to M20x2
KL-0174-519	Adaptor M42x2 to M22x2
KL-0174-521	Adaptor M42x2 to M24x2
KL-0174-535	Adaptor 1½"-16 UNS to M18
KL-0174-540	Adaptor 2¼"-14 UNS to M14
KL-0174-542	Adaptor 2¼"-14 UNS to M16x1,5
KL-0174-544	Adaptor 2¼"-14 UNS to M18x1,5

Part No.	Description
KL-0174-545	Adaptor 2¼"-14 UNS to M18
KL-0174-547	Adaptor 2¼"-14 UNS to M20x2
KL-0174-549	Adaptor 2¼"-14 UNS to M22x2
KL-0174-551	Adaptor 2¼"-14 UNS to M24x2
KL-0174-552	Adaptor 2¼"-14 UNS to M42x2
KL-0174-555	Adaptor 2¼"-14 UNS to 1½"-16 UN
KL-0174-566	Adaptor 2¼"-14 UNS to M60x2
KL-0174-567	Adaptor 2¼"-14 UNS to G1 1/2"-11
KL-0174-559	Adaptor 2¼"-14 UNS to 2¼"-14 UNS
KL-0174-543	Adaptor 2¼"-14 UNS to M16
KL-0174-563	Adaptor 2¼"-14 UN to Ø 60mm
KL-0174-565	Adaptor M68x2 to 2¼"-14 UNS





## KL-0174-... Spindles

Components for the assembly of a Puller from the KL-0174-...Puller-Series.

Part No.	Description
KL-0174-610	Spindle M14x1,5x150
KL-0174-615	Spindle M18x1,5x150
KL-0174-618	Spindle M20x1,5x230
KL-0174-619	Spindle M20x2x150
KL-0174-623	Spindle M22x2x150

Part No.	Description
KL-0174-624	Spindle M22x2x230
KL-0174-620	Spindle with pin (Ø 14mm) M20x2x230
KL-0174-812	Spindle with pin (Ø 14mm) M16x1,5x150
KL-0174-817	Spindle with pin (Ø 14mm) M20x1,5x150



## KL-0174-... Puller Bolts, Type B

Outer thread (Wheel bolt system)

Technical Data:

Length without thread:	100mm
------------------------	-------

Part No.	Description
KL-0174-722	Puller Bolt Typ B, M12x1,25
KL-0174-723	Puller Bolt Typ B, M12x1,5
KL-0174-724	Puller Bolt Typ B, M14x1,5

Part No.	Description
KL-0174-725	Puller Bolt Typ B, M16x1,5
KL-0174-726	Puller Bolt Typ B, M12x1,75
KL-0174-727	Puller Bolt Typ B, M14x1,25



## KL-0174-... Puller Bolts, Type M

Inner thread (Wheel nut system)

Technical Data:

Length without thread:	100mm
------------------------	-------

Part No.	Description
KL-0174-762	Puller Bolt Typ M, M12x1,25
KL-0174-763	Puller Bolt Typ M, M12x1,5
KL-0174-764 A	Puller Bolt Typ M, M14x1,5
KL-0174-765	Puller Bolt Typ M, M16x1,5

Artikel-Nr	Description
KL-0174-767	Puller Bolt Typ M, M14
KL-0174-768	Puller Bolt Typ M, M12
KL-0174-769	Puller Bolt Typ M, 1/2"-20 UNF



## KL-0174-700 Shoulder Nut Set (6-pc.), M14

Technical Data:

Size:	22mm
-------	------



## KL-0174-701 Shoulder Nut, M14

Technical Data:

Size:	22mm
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## KL-0174-547 Adaptor, 2 1/4"-14 UNS to M20x2

Component for the assembly of a Puller from the KL-0174-...Puller-Series.



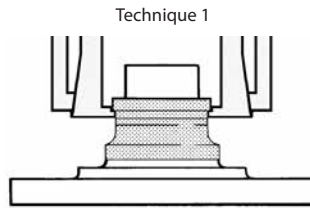
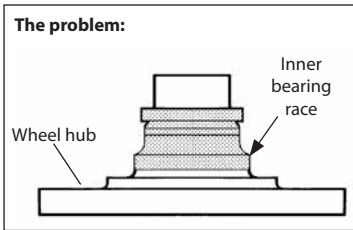
## KL-0174-620 Spindle with Pin (Ø 14mm), M20x2x230

Component for the assembly of a Puller from the Puller-Series KL-0174-...

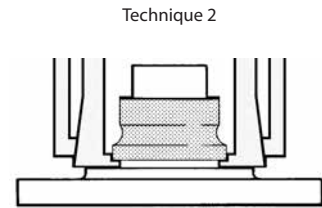
## Inner bearing race puller

KL-0042-...

### 1. Pulling techniques for inner bearing races (Choose the appropriate pulling technique)

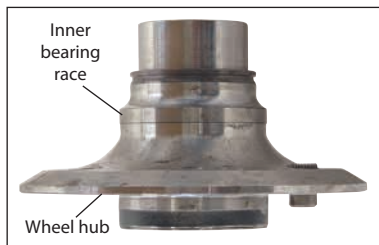


When using technique 1, the collet chuck engages behind the inner bearing race.



When using technique 2, the collet chuck engages the groove/recess of the inner bearing race.

3



#### Identify the inner bearing race Ø



Determine suitable collet chuck. For this, measure the inner bearing race Ø on the area to be clamped.

### 2. Place the pulling device on the inner bearing race and close the collet chuck.



Close the collet chuck by tightening the clamping nut.

### 3. Remove the inner bearing race.



Remove the inner bearing race from the wheel hub by screwing in the pressure spindle.





## KL-0045-7 Hydraulic Spindle (12t), M42x2

The **KL-0045-7** is a hydraulic spindle with a maximum allowable force of 120kN (=12t) designed to fit a wide range of GEDORE Automotive tools.

The base tool **KL-0045-700** consist of a body made of high-grade steel, two internal pistons, cup seals and various screw joints. The spindle is operated via a pressure screw.

If the hydraulic spindle **KL-0045-7** is combined with tools of the **KL-0174-Series**, the adaptor **KL-0174-552** (2¼"-14 UNS to M42x2) is additionally needed when the perforated puller plates size 2 and size 3 are used.

### Scope of Delivery: KL-0045-7 Hydraulic Spindle (12t), M42x2

Part No.	Description	Qty
KL-0045-700	Hydraulic Spindle (12t, Base Tool), M42x2	1
KL-0045-7009	Pressure Piece, short	1
KL-0045-7020	Pressure Piece, long	1

### Technical Data:

Maximum admissible force:	120kN (12t)
Maximum stroke:	16mm
Thread of cylinder:	M42x2
Length without 'T' Handle:	240mm
Weight:	2.3kg



## KL-0040-2500 Hydraulic Cylinder, 17t

Thanks to its special design as a hollow piston cylinder, the **KL-0040-2500** hydraulic cylinder (17t) can be used to perform pulling as well as pushing operations in conjunction with the corresponding spindles available as accessories.

### Range of Use:

In conjunction with various GEDORE Automotive tools, the hydraulic cylinder (17t) **KL-0040-2500** can be used for the removal and installation of drive shafts, wheel hubs, wheel bearings, silentblocs and suspension ball joints.

### Note:

A hydraulic pump is needed to drive the hydraulic cylinder **KL-0040-2500**. For accessories such as coupling, hydraulic pump, pressure gauge etc., please refer to chapter 4 in this Catalogue).

### Technical Data:

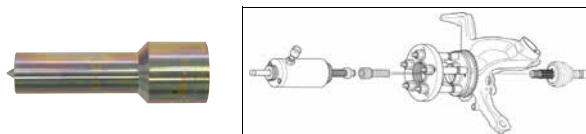
Maximum admissible force:	170kN (17t)
Maximum stroke:	45mm
Maximum oil pressure:	700bar
Maximum volume of oil:	122cm <sup>3</sup>
Piston area:	27cm <sup>2</sup>
Thread in hollow piston:	M20
Retaining thread (pushing side):	2¼"-14 UNS
Retaining thread (pulling side):	M42x2
Cylinder external diameter:	80mm
Cylinder overall length (piston retracted):	202mm
Cylinder overall length (piston extended):	247mm
Hydraulic fluid connection thread:	3/8" NPT
Weight:	5.2kg



## KL-0039-1930 Pressure Spindle with O-Ring, M20x350

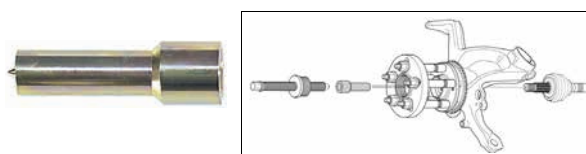
### Technical Data:

Pin Ø:	20mm
Overall length:	350mm
Maximum load capacity:	20t



## KL-0039-1935 Thrust Piece

This tool is necessary for pressing out drive shafts. It is used in conjunction with the **KL-0174-... Puller Series**, the **KL-0040-2500** hydraulic cylinder and the **KL-0039-1930** pressure spindle with pin Ø 20mm.



## KL-0174-856 Thrust Piece for Drive Shafts

Designed to press out drive shafts. Used in conjunction with the tools of the **KL-0174-... Series** and mechanical pressure spindles with a pin Ø of 14mm.

## KL-0174-559

### Adaptor, 2 1/4"-14 UNS to 2 1/4"-14 UNS

This adaptor is needed to operate the hydraulic cylinder **KL-0040-2500** when the perforated puller plates (size 2 and size 3) having a pitch circle diameter of 90-102mm from the **KL-0174-.. Series** are to be used.

**Technical Data:**

External thread:	2 1/4"-14 UNS
Internal thread:	2 1/4"-14 UNS

**Note:** Other dimensions available upon request.

Retaining thread for hydraulic cylinder



Retaining thread for tool set

## KL-0049-31

### Slide Hammer Puller (4.8kg), with Adaptor 2 1/4"-14 UNS to M18

Designed to extract wheel hubs, half-shafts, drive shafts, brake drums etc. Used in conjunction with the **KL-0174-.. Puller Series**.

**Technical Data:**

Hammer weight:	4.8kg
Length:	690mm
Connection thread on pull rod:	M18

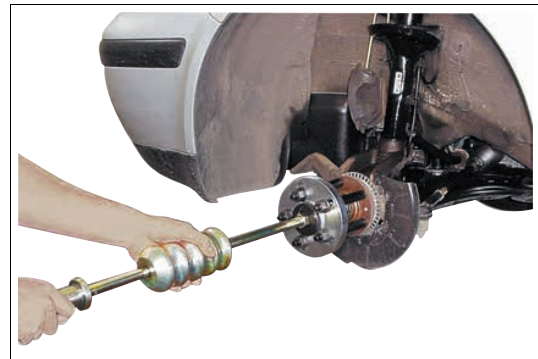
**Scope of Delivery:**

**KL-0049-31 Slide Hammer Puller, 4.8kg, with Adaptor 2 1/4"-14 UNS to M18**

Part No.	Description	Qty
KL-0049-3001	Pull Rod for KL-0049-3	1
KL-0049-3002	Hammer Weight (4.8kg) for KL-0049-3	1
KL-0049-3003	Handle for KL-0049-3	1
KL-0049-3004	Hex Nut, M18	1
KL-0174-545	Adaptor, 2 1/4"-14 UNS to M18	1



3



## KL-010...

### Pairs of Pressure Screws

For Wheel Hub extraction.

**Note:**

The pressure screws are not suitable for all vehicles!

## KL-0105

### Pair of Pressure Screws, M12x1.25

Suitable for Alfa Romeo, Citroën, Fiat, Lancia, Lada, Peugeot, Seat.



## KL-0106

### Pair of Pressure Screws, M12x1.5

Suitable for BMW, Ford, Mazda, Mercedes, Opel/Vauxhall, Renault, Seat, VW.



## KL-0107

### Pair of Pressure Screws, M14x1.5

Suitable for Audi, Citroën, Fiat, Mercedes, Peugeot, VW.



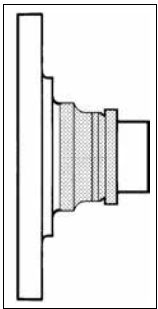
### KL-0252-10

#### Inner Bearing Race Puller

**Suitable for VW Golf (IV) with ABS-ring.**

Designed to remove the inner bearing race from the front wheel hub.

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### KL-0042-90 K

#### Inner Bearing Race Puller Set

**Can be used universally on vehicles with an inner bearing race Ø of from 44-72mm, such as VW-Audi, Ford, Lancia, Renault, Seat, Škoda, etc.**

This tool is designed for the precise removal of inner bearing races from the wheel hub.

The removal of the wheel hub usually leaves the inner bearing race on the wheel hub. It is almost impossible to remove inner bearing races without suitable tools.

Makeshift methods using grinders, chisels and welding torches bear high accident risks such as the risk of severe personal injury or damage to the components.

The puller set **KL-0042-90 K** allows inner bearing races with **diameters of from 44-72mm** to be removed from the wheel hub within just a few minutes.

**Scope of Delivery:**

**KL-0042-90 K Inner Bearing Race Puller Set**

Part No.	Description	Qty
KL-0042-900	Inner Bearing Race Puller (base tool)	1
KL-0042-9031	Collet Chuck, Size 3, Ø 44-48mm	1
KL-0042-9041	Collet Chuck, Size 4, Ø 48-52mm	1
KL-0042-9051	Collet Chuck, Size 5, Ø 52-56mm	1
KL-0042-9061	Collet Chuck, Size 6, Ø 56-60mm	1
KL-0042-9071	Collet Chuck, Size 7, Ø 60-64mm	1
KL-0042-9081	Collet Chuck, Size 8, Ø 64-68mm	1
KL-0042-9091	Collet Chuck, Size 9, Ø 68-72mm	1
KL-0042-9099	Plastic Storage Case	1

**Scope of Delivery:**

**KL-0042-900 Inner bearing race puller; base tool**

Part No.	Description	Qty
KL-0042-9001	Clamping Nut	1
KL-0042-9002	Handle	1
KL-0042-9004	Special Ring Spanner, Size 36mm	1
KL-0174-817	Spindle with Pin, M20x1.5x150	1
KL-0174-851	Pressure Piece for Wheel Hubs	1
KL-0174-854	Pressure Piece for Wheel Hubs	1



**Accessories (on demand):**

**1993 U-20** CODE:1436686 - Reversible ratchet



## KL-0042-...

### Inner Bearing Race Pullers

These tools are designed for the precise removal of inner bearing races from the wheel hub. The removal of the wheel hub usually leaves the inner bearing race on the hub. It is almost impossible to remove inner bearing races without suitable tools. Makeshift methods using grinders, chisels and welding torches bear high accident risks such as the risk of severe personal injury or damage to the components.

#### KL-0042-903

### Inner Bearing Race Puller, Size 3, Ø 44-48mm

Suitable for inner bearing race Ø 44-48mm. For example on Lancia Cappa, Renault etc.

Scope of Delivery: KL-0042-903 Inner Bearing Race Puller, Size 3, Ø 44-48mm

Part No.	Description	Qty
KL-0042-900	Inner Bearing Race Puller, Base tool	1
KL-0042-9031	Collet Chuck, Size 3, Ø 44-48mm	1

#### KL-0042-904

### Inner Bearing Race Puller, Size 4, Ø 48-52mm

Suitable for inner bearing race Ø 48-52mm. For example on Ford Transit, T330 etc.

Scope of Delivery: KL-0042-904 Inner Bearing Race Puller, Size 4, Ø 48-52mm

Part No.	Description	Qty
KL-0042-900	Inner Bearing Race Puller, Base tool	1
KL-0042-9041	Collet Chuck, Size 4, Ø 48-52mm	1

#### KL-0042-905

### Inner Bearing Race Puller, Size 5, Ø 52-56mm

Suitable for inner bearing race Ø 52-56mm. For example on VW-Audi, Seat, Škoda etc.

Scope of Delivery: KL-0042-905 Inner Bearing Race Puller, Size 5, Ø 52-56mm

Part No.	Description	Qty
KL-0042-900	Inner Bearing Race Puller, Base tool	1
KL-0042-9051	Collet Chuck, Size 5, Ø 52-56mm	1

#### KL-0042-906

### Inner Bearing Race Puller, Size 6, Ø 56-60mm

Suitable for inner bearing race Ø 56-60mm. For example on Mercedes W168 etc.

Scope of Delivery: KL-0042-906 Inner Bearing Race Puller, Size 6, Ø 56-60mm

Part No.	Description	Qty
KL-0042-900	Inner Bearing Race Puller, Base tool	1
KL-0042-9061	Collet Chuck, Size 6, Ø 56-60mm	1

#### KL-0042-907

### Inner Bearing Race Puller, Size 7, Ø 60-64mm

Suitable for inner bearing race Ø 60-64mm. For example on Mercedes W201, W202, W203, W210, W124, BMW, Peugeot, etc.

Scope of Delivery: KL-0042-907 Inner Bearing Race Puller, Size 7, Ø 60-64mm

Part No.	Description	Qty
KL-0042-900	Inner Bearing Race Puller, Base tool	1
KL-0042-9071	Collet Chuck, Size 7, Ø 60-64mm	1



#### KL-0042-908

### Inner Bearing Race Puller, Size 8, Ø 64-68mm

Suitable for inner bearing race Ø 64-68mm. For example on Mercedes A-Class (W169), B-Class (W245), E-Class (W211), M-Class (W163), S-Class (W220), W124, W140.

Scope of Delivery: KL-0042-908 Inner Bearing Race Puller

Part No.	Description	Qty
KL-0042-900	Inner Bearing Race Puller, Base tool	1
KL-0042-9081	Collet Chuck, Size 8, Ø 64-68mm	1

#### KL-0042-909

### Inner Bearing Race Puller, Size 9, Ø 68-72mm

Suitable for inner bearing race Ø 68-72mm. For example on VW Touareg, Porsche Cayenne etc.).

Scope of Delivery: KL-0042-909 Inner Bearing Race Puller

Part No.	Description	Qty
KL-0042-900	Inner Bearing Race Puller, Base tool	1
KL-0042-9091	Collet Chuck, Size 9, Ø 68-72mm	1

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## KL-0042-91 K

### Inner Bearing Race Puller Set, with Collet Chucks in Size 4 and Size 5

**Universally suitable for vehicles with inner bearing race  $\varnothing$  of from 48-56mm, e.g. VW-Audi, Ford, Lancia, Renault, Seat, Škoda, etc.**

This tool set is designed for the precise removal of inner bearing races from the wheel hub. The removal of the wheel hub usually leaves the inner bearing race on the wheel hub. It is almost impossible to remove inner bearing races without the suitable tools. Makeshift methods using grinder, chisel and welding torch bear high accident risks such as the risk of severe personal injury or damage to the components. The puller set **KL-0042-91 K** allows inner bearing races with **diameters of from 48mm up to 56mm** to be removed from the wheel hub within just a few minutes.

#### Scope of Delivery: KL-0042-91 K Inner Bearing Race Puller Set

Part No.	Description	Qty
KL-0042-900	Inner Bearing Race Puller, Base Tool	1
KL-0042-9041	Collet Chuck, Size 4, $\varnothing$ 48-52mm	1
KL-0042-9051	Collet Chuck, Size 5, $\varnothing$ 52-56mm	1
KL-0042-9099	Plastic Storage Case	1

## KL-0042-92 K

### Inner Bearing Race Puller Set, with Collet Chucks in Size 6, 7, 8

**Universally suitable for vehicles with inner bearing race  $\varnothing$  of from 56-68mm, e.g. VW-Audi, BMW, Ford, Lancia, Renault, Seat, Škoda, etc.**

This tool set is designed for the precise removal of inner bearing races from the wheel hub. The removal of the wheel hub usually leaves the inner bearing race on the wheel hub. It is almost impossible to remove inner bearing races without suitable tools. Makeshift methods using grinders, chisels and welding torches bear high accident risks such as the risk of severe personal injury or damage to the components. The puller set **KL-0042-92 K** allows inner bearing races with **diameters of from 56mm up to 68mm** to be removed from the wheel hub within just a few minutes.

#### Scope of Delivery: KL-0042-92 K Inner Bearing Race Puller Set

Part No.	Description	Qty
KL-0042-900	Inner Bearing Race Puller, base tool	1
KL-0042-9061	Collet Chuck, Size 6, $\varnothing$ 56-60mm	1
KL-0042-9071	Collet Chuck, Size 7, $\varnothing$ 60-64mm	1
KL-0042-9081	Collet Chuck, Size 8, $\varnothing$ 64-68mm	1
KL-0042-9099	Plastic Storage Case	1

## KL-0042-93 K

### Inner Bearing Race Puller Set, with Collet Chucks in Size 3, 4, 5

**Universally suitable for vehicles with inner bearing race  $\varnothing$  of from 44-56mm, e.g. VW-Audi, Ford, Lancia, Renault, Seat, Škoda, etc.**

This tool set is designed for the precise removal of inner bearing races from the wheel hub. The removal of the wheel hub usually leaves the inner bearing race on the wheel hub. It is almost impossible to remove inner bearing races without suitable tools. Makeshift methods using grinders, chisels and welding torches bear high accident risks such as the risk of severe personal injury or damage to the components. The puller set **KL-0042-93 K** allows inner bearing races with **diameters of from 44mm up to 56mm** to be removed from the wheel hub within just a few minutes.

#### Scope of Delivery: KL-0042-93 K Inner Bearing Race Puller Set

Part No.	Description	Qty
KL-0042-900	Inner Bearing Race Puller, base tool	1
KL-0042-9031	Collet Chuck, Size 3, $\varnothing$ 44-48mm	1
KL-0042-9041	Collet Chuck, Size 4, $\varnothing$ 48-52mm	1
KL-0042-9051	Collet Chuck, Size 5, $\varnothing$ 52-56mm	1
KL-0042-9099	Plastic Storage Case	1

Asseccories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



## KL-0177-2 CV Joint Puller

**Suitable for VW-Audi, Opel/Vauxhall, Jap. vehicles, etc.**

Designed for the quick and easy removal of the outer constant velocity joint by pulling it off the drive shaft. The operation can be performed in situ on the vehicle. (Please note that on some vehicles it is not possible to pull off the constant velocity joint) An essential tool when changing the rubber gaiter or CV joint. Different pull spindles are included in the kit to make the tool almost universal in its range of application.

**Advantages:**

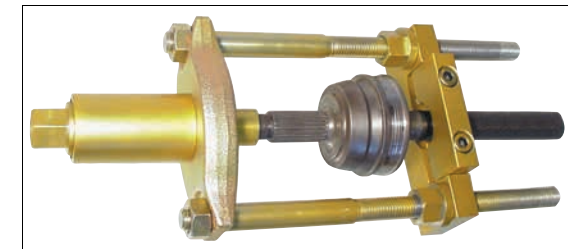
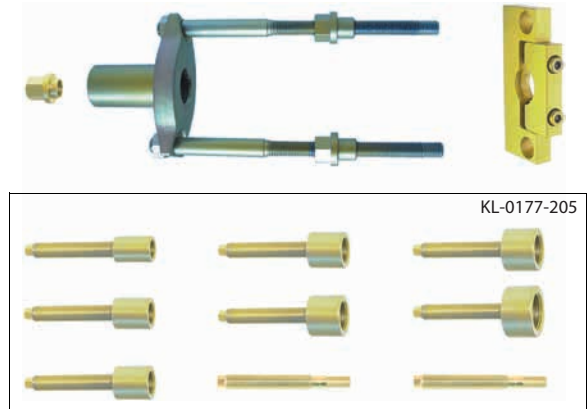
- Substantial time savings.
- Eliminates risk of damage to components caused by hammers, chisels, etc.
- Universal application.

**Scope of Delivery: KL-0177-2 CV Joint Puller**

Part No.	Description	Qty
KL-0177-201	Press Frame	1
KL-0177-202	Clamping Jaw Set Ø, 19-34mm	1
KL-0177-205	Set of Pull Spindles	1

**Scope of Delivery: KL-0177-205 Set of Pull Spindles**

Part No.	Description	Qty
KL-0177-2051	Pull Spindle, M16x1.5 (female thread)	1
KL-0177-2052	Pull Spindle, M18x1.5 (female thread)	1
KL-0177-2053	Pull Spindle, M20x1.5 (female thread)	1
KL-0177-2054	Pull Spindle, M22x1.5 (female thread)	1
KL-0177-2055	Pull Spindle, M24x1.5 (female thread)	1
KL-0177-2056	Pull Spindle, M27x1.5 (female thread)	1
KL-0177-2057	Pull Spindle, M30x1.5 (female thread)	1
KL-0177-2061	Pull Spindle, M14x1.5 (male thread)	1
KL-0177-2062	Pull Spindle, M16x1.5 (male thread)	1



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## KL-0177-3 Drive Shaft Insertion Tool

**Suitable for VW-Audi (Touareg etc.) BMW, Mercedes, Opel/Vauxhall, Renault, Peugeot, Porsche (Cayenne etc.)**

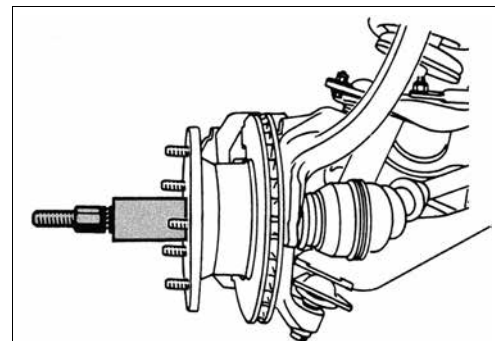
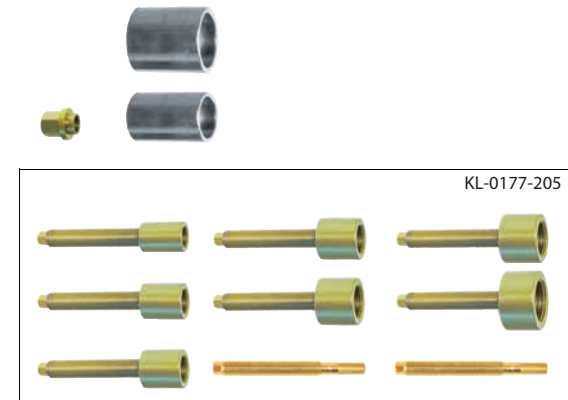
This tool is used for inserting drive shafts into wheel hubs. It is required for those vehicles that feature tight tolerances between the wheel hub and drive shaft splines. The different pull spindles that come with the tool ensure universal application.

**Scope of Delivery: KL-0177-3 Drive Shaft Insertion Tool**

Part No.	Description	Qty
KL-0177-3001	Housing, external Ø 39mm, internal Ø 29mm	1
KL-0177-3002	Housing, external Ø 46mm, internal Ø 36mm	1
KL-0177-2012	Shoulder Nut	1
KL-0177-205	Set of Pull Spindles	1

**Scope of Delivery: KL-0177-205 Set of Pull Spindles**

Part No.	Description	Qty
KL-0177-2051	Pull Spindle, M16x1.5 (female thread)	1
KL-0177-2052	Pull Spindle, M18x1.5 (female thread)	1
KL-0177-2053	Pull Spindle, M20x1.5 (female thread)	1
KL-0177-2054	Pull Spindle, M22x1.5 (female thread)	1
KL-0177-2055	Pull Spindle, M24x1.5 (female thread)	1
KL-0177-2056	Pull Spindle, M27x1.5 (female thread)	1
KL-0177-2057	Pull Spindle, M30x1.5 (female thread)	1
KL-0177-2061	Pull Spindle, M14x1.5 (male thread)	1
KL-0177-2062	Pull Spindle, M16x1.5 (male thread)	1





### KL-0415-4

#### Drive Shaft Insertion Tool

with 6 Adaptors, VW-Audi/BMW/Mercedes/Porsche

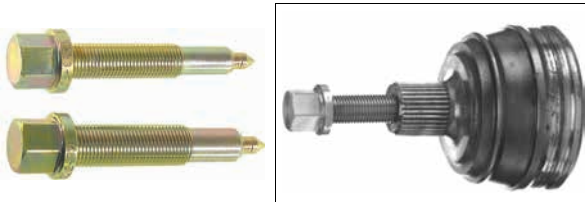
**Suitable for VW-Audi (Touareg etc.), BMW (E30, E32, E34, E36 E38, E39, X5, F20 etc.), Mercedes (W203 etc.) and Porsche (Cayenne etc.).**

For inserting the drive shaft into the wheel hub; required for vehicles whose drive shaft is firmly fitting in the wheel hub. Also intended for mounting wheel hubs.

**Scope of Delivery: KL-0415-4 Drive Shaft Insertion Tool with 6 Adaptors**

Part No.	Description	Qty
KL-0415-0006	Adaptor M16x1.5 (e.g. BMW F20)	1
KL-0415-0007	Adaptor M20x1.5 (e.g. Porsche Cayenne, VW-Touareg)	1
KL-0415-0008	Adaptor M24x1.5 (e.g. BMW E36, Mercedes W203)	1
KL-0415-0009	Adaptor M30x1.5 (e.g. BMW E32, E34, E36)	1
KL-0415-0010	Adaptor M22x1.5 (e.g. BMW E30, E46)	1
KL-0415-0011	Adaptor M27x1.5 (e.g. BMW E32, E34, E38, E39, X5)	1
KL-0415-100	Drive Shaft Insertion Tool (base tool)	1

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### KL-0233-1

#### Pressure Screw Set

**Suitable for VW-Audi.**

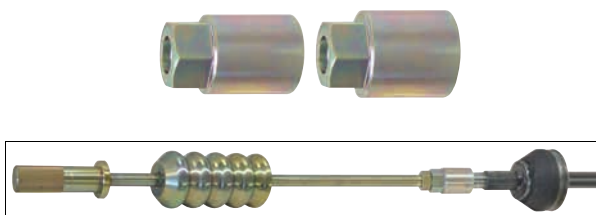
The pressure screw set **KL-0233-1** allows for the quick and easy removal of the outer constant velocity joint from the drive shaft. (Not suitable for sleeve shafts)

**Technical Data:**

Weight:	595g
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**Scope of Delivery: KL-0233-1 Pressure Screw Set**

Part No.	Description	Qty
KL-0233-10	Pressure Screw M14x1.5	1
KL-0233-11	Pressure Screw M16x1.5	1



### KL-0049-303

#### Adaptor Set, Fiat Ducato

**Designed for Fiat Ducato.**

The adaptors **KL-0049-3014** and **KL-0049-3015** are used in conjunction with the slide hammer **KL-0049-31** thus enabling outer cv joints to be separated from the drive shaft without any trouble.

**Scope of Delivery: KL-0049-303 Adaptor Set, Fiat Ducato**

Part No.	Description	Qty	Size (Waf)	Ø	Length	Connection thread
KL-0049-3014	Adaptor M18 to M28x1.5	1	32mm	40mm	65mm	M18 / M28x1.5
KL-0049-3015	Adaptor M18 to M33x1.5	1	32mm	45mm	65mm	M18 / M33x1.5



### KL-0115

#### Wheel Hub Locking Tool

**Covers virtually all passenger cars and light commercial vehicles.**

Designed to counter-hold the wheel hub while loosening/tightening the fastening screws/nuts that are found on front/rear drive shafts or wheel bearings.

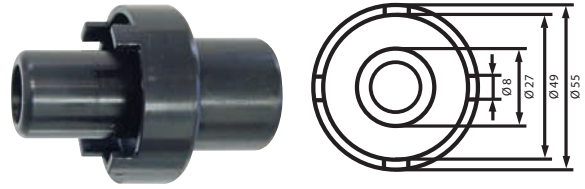
**Technical Data:**

Length:	620mm
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## KL-0301

Pin Wrench Socket,  
Rear Axle Drive Shaft Flange, Mercedes

Suitable for Mercedes W116, W123, W126 Rear Axle Drive Shaft Flange.



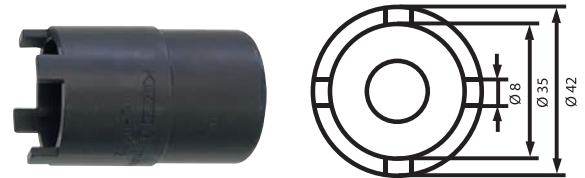
**Technical Data:**

Drive:	3/4"
Length:	80mm
Weight:	420g

## KL-0302

Pin Wrench Socket,  
Gearbox Flange, Mercedes

Suitable for Mercedes gearbox flange.



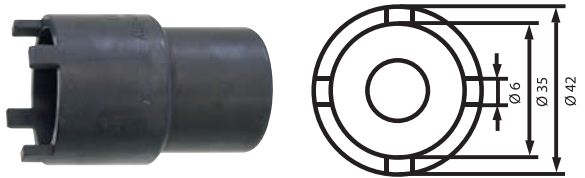
**Technical Data:**

Drive:	3/4"
Length:	70mm
Weight:	440g

## KL-0303

Pin Wrench Socket,  
Differential Flange, Mercedes

Suitable for Mercedes differential flange.



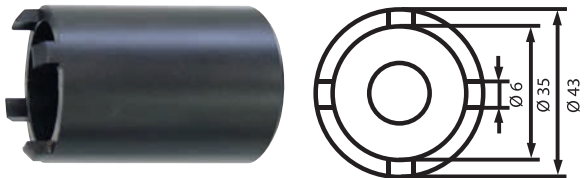
**Technical Data:**

Drive:	3/4"
Length:	70mm
Weight:	370g

## KL-0303-10

Pin Wrench Socket,  
35x6mm, Mercedes G-Class

Suitable for use on Mercedes G-Model (W460, W461, W463) front axle wheel bearing.



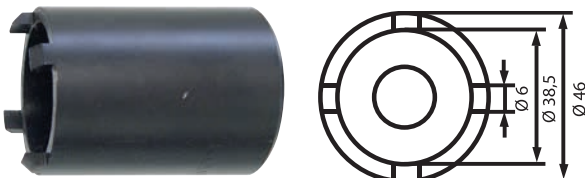
**Technical Data:**

Drive:	1/2"
Length:	70mm
Weight:	370g

## KL-0303-11

Pin Wrench Socket,  
38.5x6mm, Mercedes G-Class

Suitable for use on Mercedes G-Model (W460, W461, W463) front axle wheel bearing.



**Technical Data:**

Drive:	1/2"
Length:	70mm
Weight:	370g



3



### KL-1020-901

#### Axle Nut Spanner, Mercedes

**Applicable to Mercedes Sprinter (W901-W905) rear axle (741.407/741.408/741.409), with grooved nut (902 357 01 26).**

For loosening and tightening the wheel bearing lock nut on rear axle shafts or full floating axles. This tool is indispensable when replacing a wheel bearing or performing repairs on the rear axle.

**Technical Data:**

Size (waf):	58mm
Length:	170mm
Drive:	1/2"



### KL-4014-4224

#### Bi-Hex Socket, 24mm

**Applicable to VW Golf (VI, VII), Scirocco, Tiguan, Touran, Passat (3C), Passat CC; Audi A3, TT; Seat Leon, Altea; Škoda Octavia (1Z), Superb (3T) etc.**

This socket is needed for the loosening/tightening of lock nuts/screws as found on rear and front axle drive shafts, wheel bearings, as well as on gearbox/differential flanges. The ideal tool to loosen/tighten the drive shaft central fastening screw on VW-Audi, Seat, Škoda vehicles.

**Technical Data:**

Drive:	3/4"
Length:	90mm
Size (waf):	24mm
Profile:	bi-hex



### KL-0304

#### Special Bi-Hex Socket, waf 30mm

**Applicable to: BMW 1 Series (F20), 3 Series (E36, E46, E90); Citroën Saxo, C2; Dacia Sandero; Fiat Seicento; Ford Galaxy; Mercedes A-Class (W168), C-Class (W203), E-Class (W211), SL (W129), W123, W124, W126, W201; Opel/Vauxhall Astra F, Astra G; Renault Scenic, Clio, Kangoo; Toyota Avensis, Picnic and VW Golf (III, IV), Lupo, Touareg, T5 etc.**

The special socket is particularly suitable for loosening and tightening fastening nuts; for example, those that are found on rear/front axle drive shafts, wheel bearings, as well as on gearboxes and differential flanges.

**Technical Data:**

Size (waf):	30mm
Profile:	bi-hex
Drive:	1/2"
Length:	75mm
Weight:	350g



### KL-0305

#### Special Bi-Hex Socket, waf 32mm

**Applicable to: Fiat Punto, Seicento; Ford Fiesta, Fusion, Focus, Mondeo; Mercedes C-Class (W204), S-Class (W140); Nissan Almera, Vauxhall/Opel Astra H, Vivaro; Subaru Outback etc.**

The special socket is particularly suitable for loosening and tightening the fastening nuts that are found on rear/front axle drive shafts, wheel bearings, as well as on gearboxes and differential flanges.

**Technical Data:**

Size (waf):	32mm
Profile:	bi-hex
Drive:	1/2"
Length:	75mm
Weight:	450g

**Accessories (on demand):**

**1993 U-20** CODE:1436686 - Reversible ratchet



**DMK 200** CODE:2641240

**Torque Wrench Dremaster 40-200Nm**



## KL-0307

### Special Bi-Hex Socket, waf 34mm

**Applicable to:** Fiat Marea, Lancia Lybra, Renault etc.

The special socket is particularly suitable for loosening and tightening the mounting nuts that are found on rear or front axle drive shafts, wheel bearings, as well as on gearboxes and differential flanges.

**Technical Data:**

Size (waf):	34mm
Profile:	bi-hex
Drive:	1/2"
Length:	75mm
Weight:	600g



## KL-0306

### Special Bi-Hex Socket, waf 36mm

**Applicable to:** Audi A3, A4, A6, TT; BMW 3 Series (E36), 5 Series (E39, E60), X5; Ford Transit; Seat Ibiza, Cordoba; Nissan Primera; Porsche Cayenne; VW Polo, Golf (V), Touareg etc.

The special socket is particularly suitable for loosening and tightening the mounting nuts that are found on rear/front axle drive shafts, wheel bearings, as well as on gearboxes and differential flanges.

**Technical Data:**

Size (waf):	36mm
Profile:	bi-hex
Drive:	1/2"
Length:	75mm
Weight:	600g



## KL-0308

### Special Hex Socket, waf 35mm

**Applicable to:** Citroën Berlingo, C4; Peugeot 307, 308, 407, 508, 806 etc.

The special socket is particularly suitable for loosening and tightening the mounting nuts that are found on rear or front axle drive shafts, wheel bearings, as well as on gearboxes and differential flanges.

**Technical Data:**

Size (waf):	35mm
Profile:	hex
Drive:	1/2"
Length:	75mm
Weight:	600g



## KL-0309

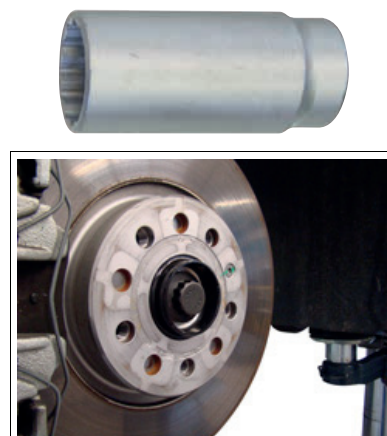
### Special Bi-Hex Socket, waf 24mm

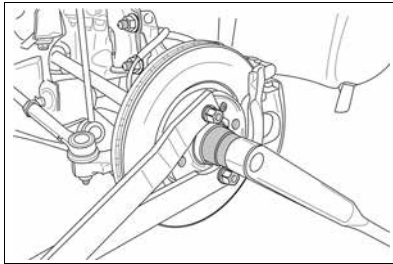
**Applicable to:** VW: Golf (VI, VII), Scirocco, Tiguan, Touran, Passat (3C), Passat CC; Audi: A3, TT; Seat: Leon, Altea; Škoda: Oktavia (1Z), Superb (3T) etc.

The special socket is designed to loosen and tighten the mounting nuts/screws that are found on rear/front axle drive shafts, wheel bearings, as well as on gearbox and differential flanges. Ideal for loosening and tightening the drive shaft central mounting screw on VW-Audi, Seat, Škoda vehicles.

**Technical Data:**

Size (waf):	24mm
Profile:	bi-hex
Drive:	1/2"
Length:	75mm





### KL-0310

#### Special Socket, Size (waf) 36mm

**Applicable to: Opel/Vauxhall, Chevrolet, BMW, Seat and VW-Audi.**  
**Particularly useful on Opel/Vauxhall Corsa D, Adam, Mokka and Chevrolet Trax.**

The special socket is particularly suitable for the loosening/tightening of the central fastening nut on the front axle wheel hub.

Thanks to its waf size of 36mm and an external Ø of only 47mm, the special socket is the ideal tool for use in limited space conditions as found at the front axle wheel hub.

**Technical Data:**

Size (waf):	36mm
Profile:	bi-hex
Drive:	1/2"
Length:	60mm
External Ø:	47mm

3



### KL-1220-246

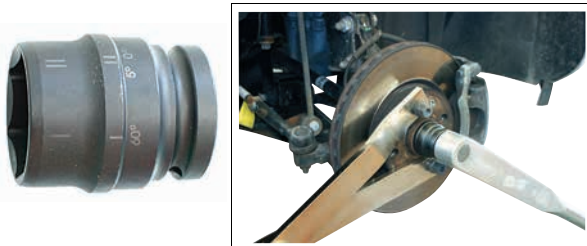
#### Socket, Size (waf) 46mm, Fiat Ducato/Citroën Jumper/Peugeot Boxer

**Designed for Fiat Ducato, Citroën Jumper and Peugeot Boxer.**

For loosening and tightening the drive shaft fastening nut.

**Technical Data:**

Size (waf):	46mm
Profile:	bi-hex
Drive:	1/2"
Length:	100mm



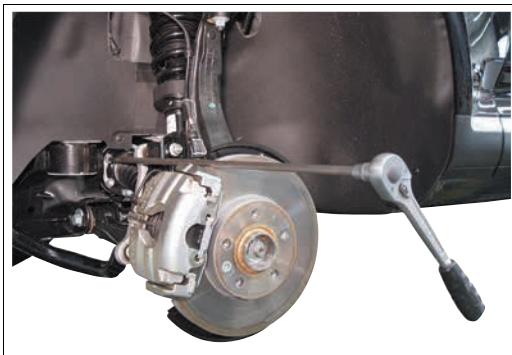
### KL-1340-301

#### Socket, Size (waf) 36mm, Citroën / Peugeot / Opel/Vauxhall

**Universal application. Indispensable for Citroën Jumpy; Peugeot 806 / Expert and Opel/Vauxhall Corsa D etc.**

For loosening and controlled tightening of drive shaft fastening nuts.

The **KL-1340-301** socket features angle datum marks of 0°, 5° and 60°, enabling accurate tightening of drive shaft fastening nuts according to manufacturer's specifications, without the use of an additional degree gauge.



### KL-0232-1

#### Multi-Spline Socket, XZN M8, 800mm

**Applicable to VW-Audi, etc.**

The special socket enables the drive shaft fixing screws to be loosened from the differential flange quickly and easily from the outside.

Not intended for use with impact wrenches.

**Advantages**

- Substantial time savings.

**Technical Data:**

Size (waf):	XZN M8
Drive:	1/2"
Length:	800mm



## KL-0232-2

### Multi-Spline Socket, XZN M10, 800mm

**Applicable to VW Golf IV etc.**

The special socket enables the drive shaft fixing screws to be loosened from the differential flange quickly and easily from the outside.

Not intended for use with impact wrenches.

**Advantage:** Substantial time savings.



**Technical Data:**

Size (waf):	XZN M10
Drive:	1/2"
Length:	800mm



## KL-0232-3

### Multi-Spline Socket, XZN M12, 800mm

**Applicable to VW T4, Touareg etc.**

The special socket enables the drive shaft fixing screws to be loosened from the differential flange quickly and easily from the outside.

Not intended for use with impact wrenches.

**Advantage:** Substantial time savings.



**Technical Data:**

Size (waf):	XZN M12
Drive:	1/2"
Length:	800mm



## KL-0232-4

### Multi-Spline Socket, XZN M14, 800mm

**Applicable to VW T4, Touareg etc.**

The special socket enables the drive shaft fixing screws to be loosened from the differential flange quickly and easily from the outside.

Not intended for use with impact wrenches.

**Advantage:** Substantial time savings.



**Technical Data:**

Size (waf):	XZN M14
Length:	800mm
Drive:	1/2"

## KL-0232-8

### Flexible Multi-Spline Bit Socket, XZN M10

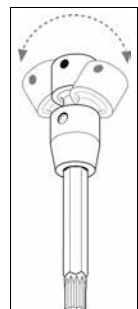
**Applicable to VW-Audi, for example VW Golf IV, Passat 3C etc.**

For the quick and easy removal and installation of drive shafts. The special design of the socket allows you to easily access the fastening screws that are sometimes difficult to reach. The tool is not designed for use with an impact wrench.

**Advantage:** Substantial time savings.

**Technical Data:**

Size (waf):	XZN M10
Drive:	3/8"
Length:	128mm



**Accessories (on demand):**

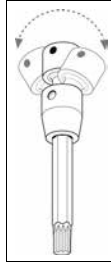
**1993 U-20** CODE:1436686 - Reversible ratchet



**DMK 200** CODE:2641240

**Torque Wrench Dremaster 40-200Nm**





## KL-4031-351 K Screwdriver Bit Socket Kit

**Universal application. The ideal kit for VW-Audi, Seat, Škoda vehicles, e.g. Audi A3 (8P), VW Polo (6N), Golf IV (1J), Golf V (1K), Passat (3C), Touran (1T), T4; T5, Seat Altea (5P) etc.**

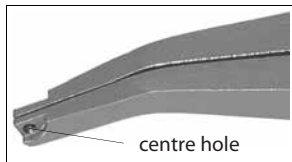
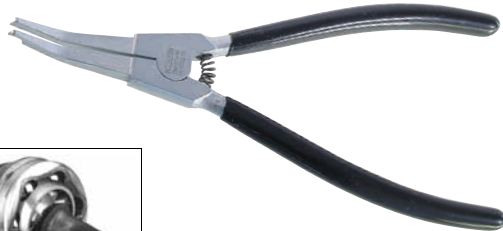
For loosening and tightening XZN fastening screws as found on brake calipers, wheel bearings, wheel hub bearing units, suspension ball joints, drive shafts. Also suitable for shock absorber mount clamping screws on steering knuckles etc.

### Scope of Delivery:

#### KL-4031-351 K Screwdriver Bit Socket Kit

Part No.	Description	Qty
KL-4031-3512	Screwdriver Bit Socket, XZN-M12, 78mm, 1/2"	1
KL-4031-3514	Screwdriver Bit Socket, XZN-M14, 78mm, 1/2"	1
KL-4031-3518	Screwdriver Bit Socket, XZN-M18, 78mm, 1/2"	1
KL-0232-8	Flexible Multi-Tooth Socket, XZN M10	1
KL-4031-3590	Plastic Storage Case	1

3



## KL-0192-12 Circlip Pliers (angled)

**Suitable for use on VW-Audi, Mercedes, Opel/Vauxhall, BMW, Ford, etc.**

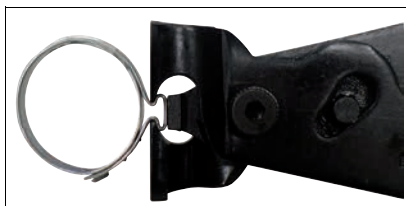
### Field of Application:

Specially designed for deep-seated, large clips on gear shafts and articulated axles that are hard to access.

Ideal for use on drive shafts/cv joints, engines and gearboxes.

### Technical Data:

Length:	200mm
Tip form:	30° angled, centring spigot, long, slim
Min. opening:	3mm
Max. opening:	35mm
Weight:	190g



## KL-0121-90 Hose Clamp Pliers

**Intended for use on Audi, BMW, Chrysler, Ford, GM, Honda, Mazda, Mercedes, Nissan, Opel/Vauxhall, VW, etc.**

For the tightening of ear clamps (Oetiker System) on axle boots, radiator and fuel hoses.

### Advantages:

- No damage to the ear clamps.
- No damage to the hoses.
- Thanks to the special design of the tool, the clamp head is being flattened while tightening the clamp. An important feature for applications where space is at a premium.

### Technical Data:

Length:	240mm
Weight:	492g

### Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



DMK 200 CODE:2641240 - Torque Wrench Dremaster 40-200Nm



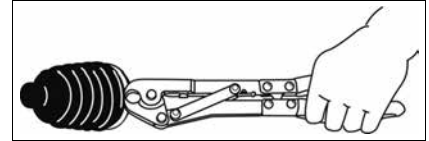
## KL-0121-93 Hose Clamp Pliers

Suitable for use on Audi, BMW, Chrysler, Ford, GM, Honda, Mazda, Mercedes, Nissan, Opel/Vauxhall, VW etc.

Efficient transmission of force and 2 working stages. For the tightening of ear clamps (Oetiker System) on axle boots, radiator and fuel hoses.

**Technical Data:**

Length:	280mm
Weight:	475g



## KL-0121-99 Hose Clamp Pliers

Suitable for use on Audi, BMW, Chrysler, Ford, GM, Honda, Mazda, Mercedes, Nissan, Opel/Vauxhall, VW etc.

For the tightening of ear clamps (Oetiker System) on axle boots, radiator and fuel hoses.

**Technical Data:**

Length:	280mm
Weight:	475g



## KL-0121-81 Hose Clamp Pliers

Universal application. Ideal for VW-Audi etc.

Works on „earless“ hose clamps that are found on axle boots, radiator and fuel hoses.

**Technical Data:**

Length:	230mm
Weight:	340g



## KL-0121-97 Hose Clamp Pliers for CLIC Hose Clamps

Suitable for use on Citroën, Peugeot etc.

This tool is designed to open and close the re-usable hose clamp Type CLIC (Caillau/Serflex).

Due to the special design of its clamping jaws, this tool enables even hose clamps that are difficult to reach, to be opened and closed with ease.



## KL-0121-96 A Hose Clamp Pliers (for use with a Torque Drive)

Suitable for use on VW-Audi, Ford, Opel/Vauxhall etc.

This tool is designed to tighten stainless steel clamps on cv-boots to specified tightening torques.

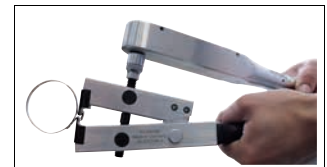
A 3/8" torque wrench, for example GEDORE - 4549-05, is required as a drive.

Spare Part: KL-0121-9601 A Jaws (spare pair)



**Technical Data:**

Length:	260mm
Weight:	490g
Drive:	3/8"



### Accessories:

- KL-0100-5715-S Plastic Sleeve for 15mm waf
- KL-0100-5717-S Plastic Sleeve for 17mm waf
- KL-0100-5719-S Plastic Sleeve for 19mm waf
- KL-0100-5721-S Plastic Sleeve for 21mm waf
- KL-0100-5722-S Plastic Sleeve for 22mm waf



### Technical Data:

Size (waf):	15mm, 17mm, 19mm, 21mm, 22mm
Length:	150mm
Drive:	1/2"
Weight:	2.11kg

## KL-0100-57 K

### Set of Impact Hex Sockets

with Plastic Sleeve, Sizes (waf) 15 / 17 / 19 / 21 / 22mm

#### Universal application.

Long and slim design with protective plastic sleeve.

For loosening and tightening wheel bolts on light-alloy wheel rims.

#### Scope of Delivery: KL-0100-57 K Set of Impact Hex Sockets with Plastic Sleeve

Part No.	Description	Qty
KL-0100-5715	Impact Hex Socket with Plastic Sleeve, Size (waf) 15mm, 150mm long	1
KL-0100-5717	Impact Hex Socket with Plastic Sleeve, Size (waf) 17mm, 150mm long	1
KL-0100-5719	Impact Hex Socket with Plastic Sleeve, Size (waf) 19mm, 150mm long	1
KL-0100-5721	Impact Hex Socket with Plastic Sleeve, Size (waf) 21mm, 150mm long	1
KL-0100-5722	Impact Hex Socket with Plastic Sleeve, Size (waf) 22mm, 150mm long	1
KL-0100-5790	Plastic Storage Case	1

3



## KL-0100-5622

### Impact Hexagon Socket (waf 22mm)

with Protective Sleeve, Opel/Vauxhall

#### Applicable to Opel/Vauxhall Insignia etc.

Ideal for loosening and tightening wheel bolts on light-alloy wheels rims.

#### Technical Data:

Size:	22mm
Length:	82mm
Drive:	1/2"
Weight:	300g

### Accessories (on demand):

**1993 U-20** CODE:1436686 - Reversible ratchet



**DMK 200** CODE:2641240

**Torque Wrench Dremaster 40-200Nm**



## KL-0100-5610

### Special Impact Socket

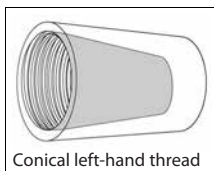
with Protective Sleeve, Mercedes

**Applicable to Mercedes C-Class/GLK (W204), E-Class (W211, W212, W207), SLK (W172), M-Class (W164, W166), CL-Class (W216), S-Class (W221, W222) and Maybach.**

Specially designed to loosen and tighten the new special wheel bolts found on Mercedes vehicles. Approved for use with an impact wrench.

### Technical Data:

Dimension (waf):	17mm
Length:	88mm
Drive:	1/2"
Weight:	257g



## KL-0101-22 K

### Set of Special Sockets

**Suitable for use on lug bolts and nuts with size (waf) 17-26mm.**

Designed for loosening lug bolts/lug nuts. Very useful sockets if the original special socket is not available. The set also includes sockets to undo hexagonal lug bolts/lug nuts or other hex bolts and nuts whose hexagon has been damaged („rounded“ head).

The sockets are specially designed (conical, and with a left-hand thread) to unscrew and remove bolts and nuts with ease.

#### Scope of Delivery: KL-0101-22 K Set of Special Sockets

Part No.	Description	Ø
KL-0101-2201	Special Socket	17mm
KL-0101-2202	Special Socket	18.5mm
KL-0101-2203	Special Socket	20mm
KL-0101-2204	Special Socket	21.5mm
KL-0101-2205	Special Socket	23mm
KL-0101-2206	Special Socket	24.5mm
KL-0101-2207	Special Socket	26mm
KL-0101-2290	Plastic Storage Case	



### Technical Data:

Drive:	1/2"
Length:	40mm

## KL-0100-Series Torque-Limiting Sockets

These AccuTorq Torque-Limiting Sockets are designed for use with an impact wrench. They work by absorbing excess torque generated by the impact wrench between the 1/2" drive and the hexagon end into the torsion bar, once the correct torque has been reached.

The sockets were calibrated at the time of manufacture. Thus, there is no need for additional adjustments. Thanks to the high quality of the tools, only worn impact wrench anvils or wheel bolts may cause premature wear and tear resulting in a limited lifetime of the sockets.

The AccuTorq Torque-Limiting Sockets ensure that no torque greater than the torque value indicated on the sockets will be transmitted. Therefore, the only accuracy test that needs to be performed is to check that there is enough force available to allow the socket to achieve the correct value for the respective application.

### Special Features:

- The sockets combine impact-wrench speed with torque-wrench accuracy.
- Fit all 1/2" impact wrenches with min. 220 Nm. (1" impact wrenches for HGV with min. 1,400Nm).
- No need for recalibration.
- For quick reference, colour-coded torque-limiting sockets for passenger car applications. (Torque-limiting sockets for heavy-duty applications are in black.)



3

1/2"



### Technical Data:

Part No.	Size (waf)	Starting torque	Applications	Color
KL-0100-10	17mm	75Nm	Renault, Škoda and Suzuki.	green
KL-0100-11	17mm	95Nm	Opel/Vauxhall and Renault.	beige
KL-0100-12	17mm	110Nm	Audi, BMW, Mercedes, Opel/Vauxhall, Porsche and VW.	red
KL-0100-13	19mm	75Nm	Alfa Romeo, Citroën, Fiat, Honda, Hyundai, Peugeot, Renault and Rover.	dark blue
KL-0100-14	19mm	90Nm	Alfa Romeo, Citroën, Fiat, Ford, Lada, Opel/Vauxhall, Peugeot, Renault, Rover and Volvo.	yellow
KL-0100-15	19mm	110Nm	Alfa Romeo, Fiat, Ford, Honda, Hyundai, Isuzu, Kia, Mercedes, Rover, Saab and Volvo.	light blue
KL-0100-16	19mm	135Nm	Ford and Porsche.	gray
KL-0100-17	21mm	80Nm	Mitsubishi and Rover.	black
KL-0100-18	21mm	110Nm	Daihatsu, Ford, Mazda, Mitsubishi, Nissan and Toyota.	light brown
KL-0100-19	21mm	95Nm	Ford.	pink
KL-0100-20	17mm	120Nm	Audi A4, A6, A8 and Škoda Oktavia.	creme
KL-0100-21	17mm	150Nm	Mercedes S-Class.	lemon yellow
KL-0100-22	19mm	100Nm	Fiat Ulysse and Multipla.	yellow-green
KL-0100-23	19mm	150Nm	Mercedes M-Class.	purple
KL-0100-24	22mm	80Nm	Jaguar XJS-Series, X300 & XK8 (steel rims only).	dark green
KL-0100-25	22mm	100Nm	Jaguar XJS-Serie, X300 und XK8 (Aluminium rims only).	orange

## KL-0100-1000 Rack for 5 Torque-Limiting Sockets





1/2"



## KL-4031-3518

Screwdriver Bit Socket XZN-M18, 78mm, drive 1/2"

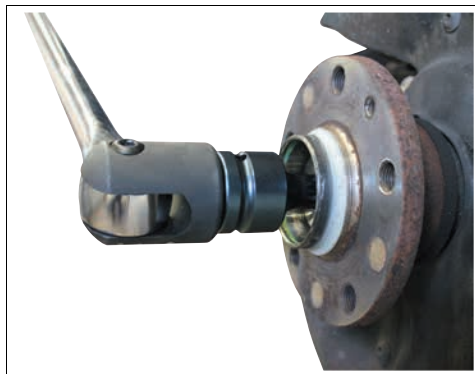
**Suitable e.g. for Audi A3, VW Polo, Golf V etc.**

This tool is designed to loosen and tighten rear axle wheel hub bearing unit fastening screws.

**Technical Data:**

Drive:	1/2"
Size:	XZN-M18
Length:	78mm

3



## KL-4031-4118

Screwdriver Bit Socket, XZN-M18, 3/4"

**Suitable for the wheel bearing central screws found at the rear axle on VW Golf V, Audi A3, Seat Altea etc.**

The **KL-4031-4118** Screwdriver Bit Socket (XZN-M18, 3/4") is used with a 3/4" breaker bar such as the **KL-4007-411** for the loosening, and in conjunction with a 3/4" torque wrench for the tightening, of the wheel bearing central screw at the rear axle.

**Technical Data:**

Drive:	3/4"
Size (waf):	XZN-M18
Maximum load capacity:	800Nm



## KL-0193-10 A

Pliers for Protection Cap

**Suitable for use on VW-Audi, Opel/Vauxhall, etc.**

Intended for the safe and damage-free removal of plastic protection caps from wheel bolts.

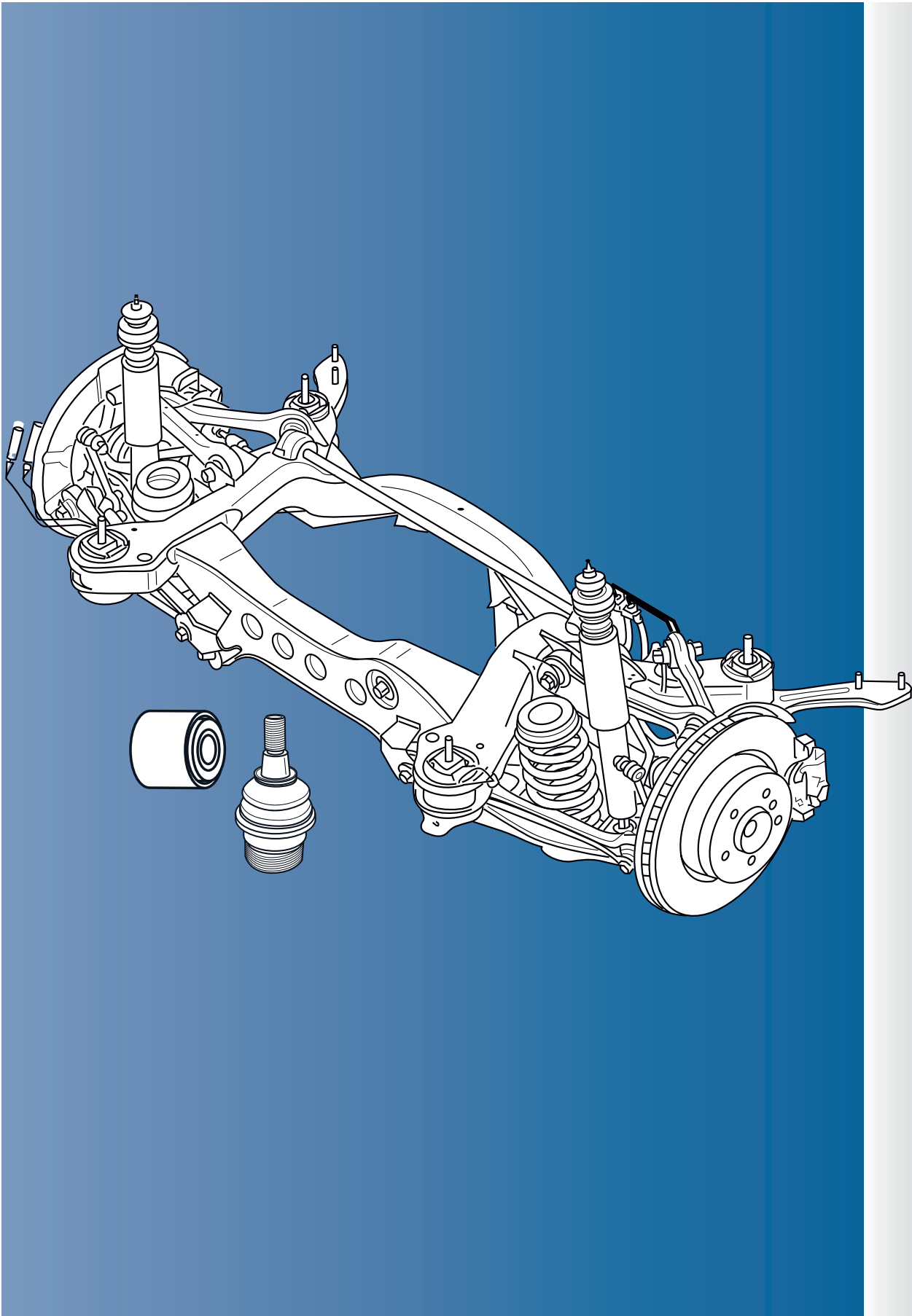
**Accessories (on demand):**

**1993 U-20** CODE:1436686 - Reversible ratchet



**DMK 200** CODE:2641240 - Torque Wrench Dremaster 40-200Nm





# Silentblochs and Bushings

## The GEDORE Automotive Silentbloc Tool KL-0039-Series

### The big advantages of the unrivalled KL-0039-.. Tool Series are:

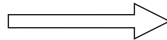
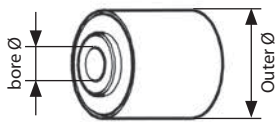
- ☑ Modular system with universally combinable pressure- / support sleeves.
- ☑ Possibility to complement the tool set universally with additional pressure- / support sleeves. Two possible drives (mechanical or hydraulic). Optional use of centring- / pressure rings and press frames.

### Silentbloc removal / installation using a pull spindle

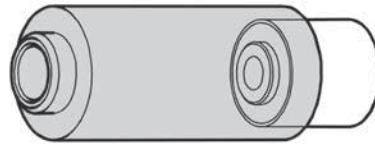
#### Identification of the necessary parts and assembling the tool:

- ⇒ Measuring the  $\varnothing$  of the silentbloc and retaining bore.
- ⇒ Determination of spindle, pressure and support sleeve.

#### Measure bore $\varnothing$ and silentbloc outer $\varnothing$

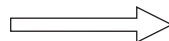
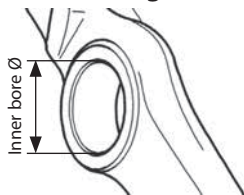


#### Identify support sleeve (with dimension silentbloc outer $\varnothing$ )

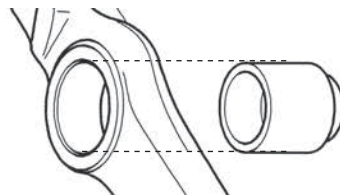


Support sleeve inner  $\varnothing$  → greater than → silentbloc outer  $\varnothing$

#### Measure inner bore $\varnothing$ of retaining bore.



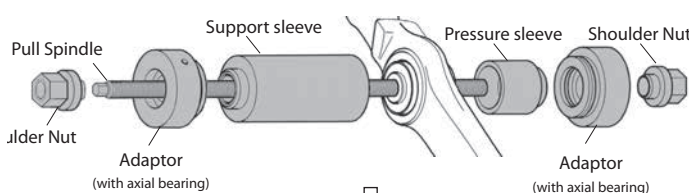
#### Identify pressure sleeve (with dimension bore inner $\varnothing$ )



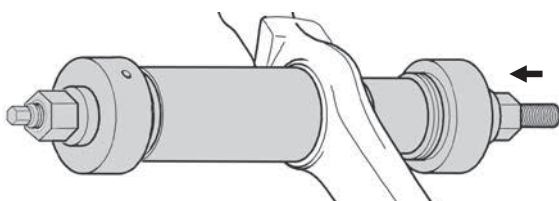
Pressure sleeve outer  $\varnothing$  → greater than → bore inner  $\varnothing$



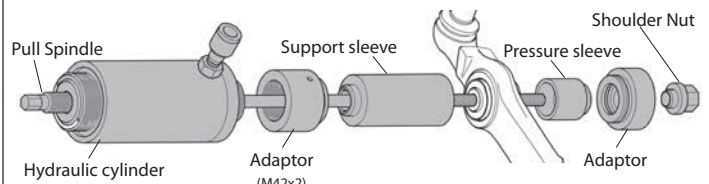
#### Mounting the silentbloc tool (mechanical drive)



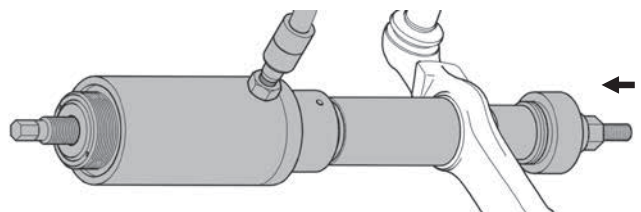
#### Extracting the silentbloc (mechanically) [Insertion follows the same principle]



#### Mounting the silentbloc tool (hydraulic drive)



#### Extracting the silentbloc (hydraulically) [Insertion follows the same principle]



## The GEDORE Automotive Silenbloc Tool KL-0039-Series

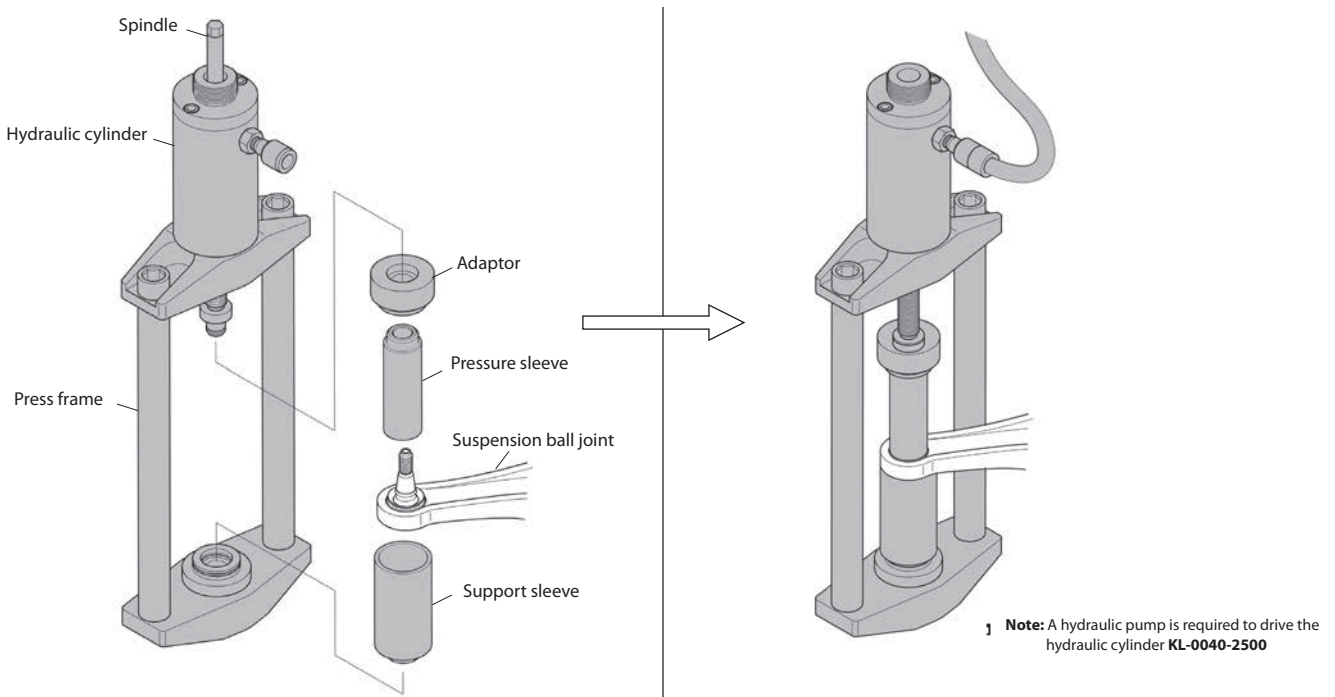
### The big advantages of the unrivalled KL-0039-.. Tool Series are:

- ☑ Universal range of applications..
- ☑ Substantial time and cost savings as the required tool can easily and universally be assembled as needed.

### Silentbloc/Suspension Ball Joint removal/installation using a press frame

#### Identification of the necessary parts and assembling the tool:

⇒ Mounting the tool and pressing out the silentbloc / suspension ball joint. (Installation follows the same principle)

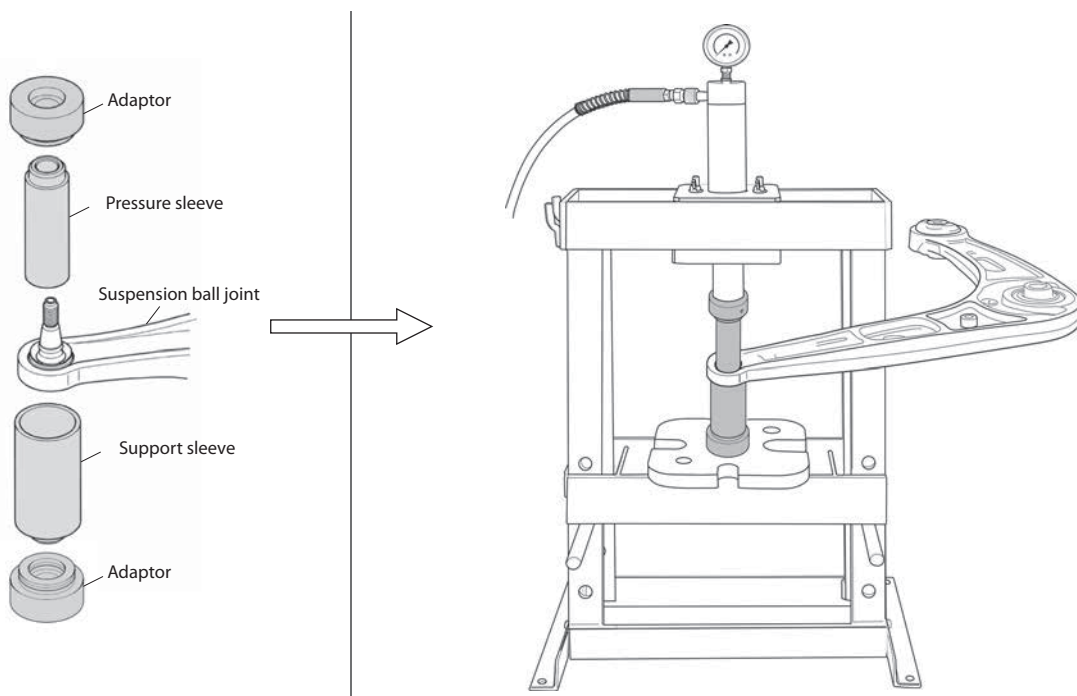


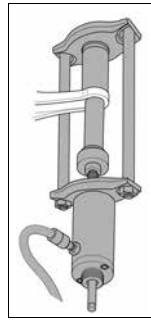
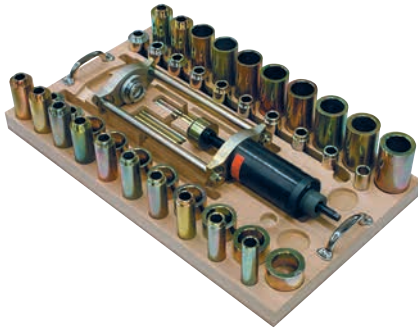
4

### Silentbloc/Suspension Ball Joint removal/installation using a bench press

#### Identification of the necessary parts and assembling the tool:

⇒ Mounting the tool and pressing out the silentbloc / suspension ball joint. (Installation follows the same principle)





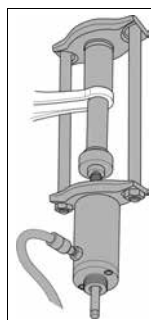
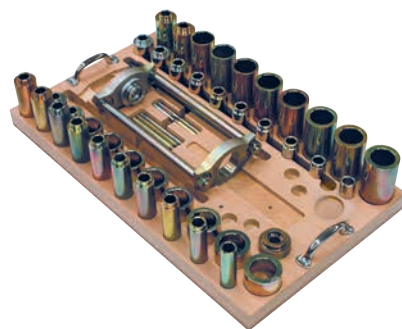
### Technical Data:

Inner length (press frame):	275mm
Inner width (press frame):	115mm
Max. load capacity of press frame:	12t
Max. load capacity hydraulic cylinder:	17t

### Scope of Delivery:

#### KL-0039-1601 Pressure/Support Sleeve Set (Short Design)

Part No.	Description	Qty
KL-0039-1610	Guide Pin (short),10mm	1
KL-0039-1612	Guide Pin (short),12mm	1
KL-0039-1614	Guide Pin (short),14mm	1
KL-0039-1616	Guide Pin (short),16mm	1
KL-0039-1630	Pressure/Support Sleeve (short), Ø A: 30mm, Ø B: 22mm	1
KL-0039-1632	Pressure/Support Sleeve (short), Ø A: 32mm, Ø B: 24mm	1
KL-0039-1634	Pressure/Support Sleeve (short), Ø A: 34mm, Ø B: 26mm	1
KL-0039-1636	Pressure/Support Sleeve (short), Ø A: 36mm, Ø B: 28mm	1
KL-0039-1638	Pressure/Support Sleeve (short), Ø A: 38mm, Ø B: 30mm	1
KL-0039-1640	Pressure/Support Sleeve (short), Ø A: 40mm, Ø B: 32mm	1
KL-0039-1642	Pressure/Support Sleeve (short), Ø A: 42mm, Ø B: 34mm	1
KL-0039-1644	Pressure/Support Sleeve (short), Ø A: 44mm, Ø B: 36mm	1
KL-0039-1646	Pressure/Support Sleeve (short), Ø A: 46mm, Ø B: 38mm	1
KL-0039-1648	Pressure/Support Sleeve (short), Ø A: 48mm, Ø B: 40mm	1
KL-0039-1650	Pressure/Support Sleeve (short), Ø A: 50mm, Ø B: 42mm	1
KL-0039-1652	Pressure/Support Sleeve (short), Ø A: 52mm, Ø B: 44mm	1
KL-0039-1654	Pressure/Support Sleeve (short), Ø A: 54mm, Ø B: 46mm	1
KL-0039-1656	Pressure/Support Sleeve (short), Ø A: 56mm, Ø B: 48mm	1
KL-0039-1658	Pressure/Support Sleeve (short), Ø A: 58mm, Ø B: 50mm	1
KL-0039-1660	Pressure/Support Sleeve (short), Ø A: 60mm, Ø B: 52mm	1
KL-0039-1662	Pressure/Support Sleeve (short), Ø A: 62mm, Ø B: 54mm	1
KL-0039-1664	Pressure/Support Sleeve (short), Ø A: 64mm, Ø B: 56mm	1
KL-0039-1666	Pressure/Support Sleeve (short), Ø A: 66mm, Ø B: 58mm	1
KL-0039-1668	Pressure/Support Sleeve (short), Ø A: 68mm, Ø B: 60mm	1



### Technical Data:

Inner length (press frame):	275mm
Inner width (press frame):	115mm
Max. load capacity of press frame:	12t

## KL-0039-930 H

### Press Tool Set (short), with Hydr. Cyl. (17t)

**Universally suitable for silentblocs, lower and upper suspension ball joints, etc.**

The press tool set **KL-0039-930 H** allows the quick, professional and safe removal and installation of silentblocs, suspension ball joints, etc. with Ø of 30-59mm, to be performed in situ on the vehicle without the need for dismantling the axle or the wishbone. The 17t hydraulic cylinder that comes with the set ensures professional and trouble-free removal of silentblocs and joint bushes.

The tool set can easily be upgraded with other parts of the **KL-0039-.. Series** such as pull spindles and adaptors, thus allowing for a wide range of applications.

#### Scope of Delivery: KL-0039-930 H Press Tool Set (short), with 17t Hydr. Cyl.

Part No.	Description	Qty
KL-0039-1140	Press Frame (Lightweight, Short Design)	1
KL-0040-2500	Hydraulic Cylinder (17t)	1
KL-0039-1930	Pressure Spindle with O-Ring, M20x350mm	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
<b>KL-0039-1601</b>	<b>Pressure/Support Sleeve Set (Short Design)</b>	<b>1</b>
<b>KL-0039-1701</b>	<b>Pressure/Support Sleeve Set (Long Design)</b>	<b>1</b>
KL-0039-9000	Wooden Storage Plate (without Tools)	1

#### Scope of Delivery: KL-0039-1701 Pressure-/Support Sleeve Set (Long Design)

Part No.	Description	Qty
KL-0039-1710	Guide Pin (long), 10mm	1
KL-0039-1712	Guide Pin (long), 12mm	1
KL-0039-1714	Guide Pin (long), 14mm	1
KL-0039-1716	Guide Pin (long), 16mm	1
KL-0039-1730	Pressure/Support Sleeve (long), Ø A: 30mm, Ø B: 22mm	1
KL-0039-1732	Pressure/Support Sleeve (long), Ø A: 32mm, Ø B: 24mm	1
KL-0039-1734	Pressure/Support Sleeve (long), Ø A: 34mm, Ø B: 26mm	1
KL-0039-1736	Pressure/Support Sleeve (long), Ø A: 36mm, Ø B: 28mm	1
KL-0039-1738	Pressure/Support Sleeve (long), Ø A: 38mm, Ø B: 30mm	1
KL-0039-1740	Pressure/Support Sleeve (long), Ø A: 40mm, Ø B: 32mm	1
KL-0039-1742	Pressure/Support Sleeve (long), Ø A: 42mm, Ø B: 34mm	1
KL-0039-1744	Pressure/Support Sleeve (long), Ø A: 44mm, Ø B: 36mm	1
KL-0039-1746	Pressure/Support Sleeve (long), Ø A: 46mm, Ø B: 38mm	1
KL-0039-1748	Pressure/Support Sleeve (long), Ø A: 48mm, Ø B: 40mm	1
KL-0039-1750	Pressure/Support Sleeve (long), Ø A: 50mm, Ø B: 42mm	1
KL-0039-1752	Pressure/Support Sleeve (long), Ø A: 52mm, Ø B: 44mm	1
KL-0039-1754	Pressure/Support Sleeve (long), Ø A: 54mm, Ø B: 46mm	1
KL-0039-1756	Pressure/Support Sleeve (long), Ø A: 56mm, Ø B: 48mm	1
KL-0039-1758	Pressure/Support Sleeve (long), Ø A: 58mm, Ø B: 50mm	1
KL-0039-1760	Pressure/Support Sleeve (long), Ø A: 60mm, Ø B: 52mm	1
KL-0039-1762	Pressure/Support Sleeve (long), Ø A: 62mm, Ø B: 54mm	1
KL-0039-1764	Pressure/Support Sleeve (long), Ø A: 64mm, Ø B: 56mm	1
KL-0039-1766	Pressure/Support Sleeve (long), Ø A: 66mm, Ø B: 58mm	1
KL-0039-1768	Pressure/Support Sleeve (long), Ø A: 68mm, Ø B: 60mm	1

## KL-0039-931 H

### Press Tool Set (Short Design), without Drive

**Universally suitable for silentblocs, upper and lower ball joints etc.**

The press tool set **KL-0039-931 H** allows the quick, professional and safe removal and installation of silentblocs, suspension ball joints, etc. with Ø of 30-59mm to be performed in situ on the vehicle without the need for dismantling the axle or the wishbone.

Used in conjunction with a hydraulic drive, the tools ensure professional and trouble-free removal of silentblocs and joint bushes.

The tool set can easily be upgraded with other parts of the **KL-0039-.. Series** such as a mechanical drive with pull spindle, thus allowing for a wide range of applications.

#### Scope of Delivery: KL-0039-931 H Press Tool Set (Short Design), without Drive

Part No.	Description	Qty
KL-0039-1140	Press Frame (Lightweight, Short Design)	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1930	Pressure Spindle with O-Ring, M20x350mm	1
KL-0039-1601	Pressure/Support Sleeve Set (Short Design)	1
KL-0039-1701	Pressure/Support Sleeve Set (Long Design)	1
KL-0039-9000	Wooden Storage Plate (without Tools)	1

## KL-0039-413 K Pulling Device for Silentbloc (Mechanical Drive)

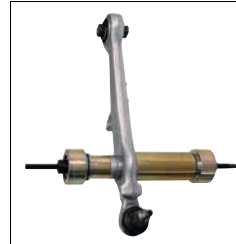
**Universally suitable for silentblocs/joint bushes with Ø of 30-73mm.**

The **KL-0039-413 K** pulling device allows for the quick, safe and professional removal and replacement of silentblocs and joint bushes. The mechanical drive included in the set is designed for the extraction of silentblocs and joint bushes having an internal bore Ø not smaller than 10mm. Thanks to the possibility to easily upgrade the tool set with other parts of the **KL-0039-.. Series** such as centring and pressure rings or pressure/support sleeves, the pulling device covers a wide field of applications; for example, it allows the user to change wheel bearings as well.

A 10t or 17t hydraulic drive from GEDORE AUTOMOTIVE (available as accessories) can be used if silentblocs are very tight-fitting, stuck, or heavily rusted in place. The additional use of a press frame enables additionally the removal and installation of suspension ball joints etc.

**Note:**

The pulling device **KL-0039-413 K** can also be operated hydraulically. For this purpose, it needs to be used in conjunction with the hydraulic drive **KL-0039-809 A** or **KL-0039-803 A**, hydraulic cylinder **KL-0040-2500** and a hydraulic pump such as **KL-0215-35 M25**. This will be necessary when removing and installing bushings and suspension ball joints for example.



**Accessories (on demand):**

**1 B - Combination Spanner UD-Profil**



**Scope of Delivery: KL-0039-413 K Pulling Device for Silentbloc (Mechanical Drive)**

Part No.	Description	Qty
KL-0039-1002	Retaining Adaptor for Clamping Nut M20, with O-Ring	1
KL-0039-1011	Retaining Adaptor for Mechanical Spindle	1
KL-0039-1910-2	Shoulder Nut, M10x1.25	2
KL-0039-1912-2	Shoulder Nut, M12	2
KL-0039-1914-2	Shoulder Nut, M14	2
KL-0039-1916-2	Shoulder Nut, M16	2
KL-0039-2010-1	Pull Spindle, M10x1.25	1
KL-0039-2012-1	Pull Spindle, M12	1
KL-0039-2014-1	Pull Spindle, M14	1
KL-0039-2016-1	Pull Spindle, M16	1
KL-0039-1630	Pressure/Support Sleeve (short), Ø 30/22mm	1
KL-0039-1640	Pressure/Support Sleeve (short), Ø 40/32mm	1
KL-0039-1646	Pressure/Support Sleeve (short), Ø 46/38mm	1
KL-0039-1650	Pressure/Support Sleeve (short), Ø 50/42mm	1
KL-0039-1654	Pressure/Support Sleeve (short), Ø 54/46mm	1
KL-0039-1658	Pressure/Support Sleeve (short), Ø 58/50mm	1

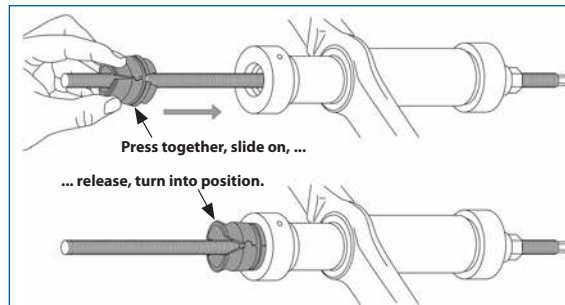
Part No.	Description	Qty
KL-0039-1664	Pressure/Support Sleeve (short), Ø 64/56mm	1
KL-0039-1666	Pressure/Support Sleeve (short), Ø 66/58mm	1
KL-0039-1670	Pressure/Support Sleeve (short), Ø 70/62mm	1
KL-0039-1672	Pressure/Support Sleeve (short), Ø 72/64mm	1
KL-0039-1744	Pressure/Support Sleeve (long), Ø 44/36mm	1
KL-0039-1750	Pressure/Support Sleeve (long), Ø 50/42mm	1
KL-0039-1756	Pressure/Support Sleeve (long), Ø 56/48mm	1
KL-0039-1762	Pressure/Support Sleeve (long), Ø 62/54mm	1
KL-0039-1766	Pressure/Support Sleeve (long), Ø 66/58mm	1
KL-0039-1770	Pressure/Support Sleeve (long), Ø 70/62mm	1
KL-0039-1774	Pressure/Support Sleeve (long), Ø 74/66mm	1
KL-0039-1778	Pressure/Support Sleeve (long), Ø 78/70mm	1
KL-0039-1782	Pressure/Support Sleeve (long), Ø 82/74mm	1
KL-0039-1784	Pressure/Support Sleeve (long), Ø 84/76mm	1
KL-0014-0030	Molybdenum Disulphide Paste	1
KL-0039-4139	Plastic Storage Case	1

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## KL-0039-23 - Set of Quick-Action Clamping Nuts (5-pc.)

**Universally suitable for the tools of the KL-0039..Wheel Bearing/Silenbloc Tool..Series with pull spindles having either an M10x1.25, M12, M14, M16 or M20 retaining thread.**

Thanks to their special design, the quick-action clamping nuts can be adjusted simply by sliding them on the pull spindle without any rotational movement. This allows for short assembly/clamping times, as well as quick and easy adjustment and simple operation of the tool.



For scope of delivery, please see page 145.



**KL-0039-22 - Set of Quick-Action Clamping Nuts (4-pc.).** Like KL-0039-23, but without Quick-Action Clamping Nut M16.



KL-0039-160 E

## KL-0039-160 K

Pressure/Support Sleeve Set,  
Ø 30-90mm, short, 45mm, in a Plastic Storage Case

Indispensable tool set for pressing in and pressing out silentblocs, shafts, bushings etc. The sleeves are used in conjunction with the tools of the **KL-0039-... Series**.

**Scope of Delivery: KL-0039-160 K Pressure/Support Sleeve Set, Ø 30-90mm, short, 45mm, in a Plastic Storage Case**

Part No.	Description	Qty
KL-0039-160 E	Pressure/Support Sleeve Set, Ø 30-90mm (short) 45mm	1
KL-4999-1391	Plastic Storage Case	1

**Scope of Delivery: KL-0039-160 E Pressure/Support Sleeve Set, Ø 30-90mm, short, 45mm, in a Foam Insert**

Part No.	Description	Qty
KL-0039-160	Press-/Support Sleeve Set, Ø 30-90mm (short), 45mm	1
KL-4999-1312	Foam Insert	1

**Scope of Delivery:**

**KL-0039-160 Pressure/Support Sleeve Set, Ø 30-90mm, short, 45mm**

Part No.	Description	Qty	Part No.	Description	Qty	Part No.	Description	Qty
KL-0039-1630	Pressure-/Support Sleeve, short, Ø30/22mm	1	KL-0039-1652	Pressure-/Support Sleeve, short, Ø52/44mm	1	KL-0039-1672	Pressure-/Support Sleeve, short, Ø72/64mm	1
KL-0039-1632	Pressure-/Support Sleeve, short, Ø32/24mm	1	KL-0039-1654	Pressure-/Support Sleeve, short, Ø54/46mm	1	KL-0039-1674	Pressure-/Support Sleeve, short, Ø74/66mm	1
KL-0039-1634	Pressure-/Support Sleeve, short, Ø34/26mm	1	KL-0039-1656	Pressure-/Support Sleeve, short, Ø56/48mm	1	KL-0039-1676	Pressure-/Support Sleeve, short, Ø76/68mm	1
KL-0039-1636	Pressure-/Support Sleeve, short, Ø36/28mm	1	KL-0039-1658	Pressure-/Support Sleeve, short, Ø58/50mm	1	KL-0039-1678	Pressure-/Support Sleeve, short, Ø78/70mm	1
KL-0039-1638	Pressure-/Support Sleeve, short, Ø38/30mm	1	KL-0039-1660	Pressure-/Support Sleeve, short, Ø60/52mm	1	KL-0039-1680	Pressure-/Support Sleeve, short, Ø80/72mm	1
KL-0039-1640	Pressure-/Support Sleeve, short, Ø40/32mm	1	KL-0039-1662	Pressure-/Support Sleeve, short, Ø62/54mm	1	KL-0039-1682	Pressure-/Support Sleeve, short, Ø82/74mm	1
KL-0039-1642	Pressure-/Support Sleeve, short, Ø42/34mm	1	KL-0039-1664	Pressure-/Support Sleeve, short, Ø64/56mm	1	KL-0039-1684	Pressure-/Support Sleeve, short, Ø84/76mm	1
KL-0039-1644	Pressure-/Support Sleeve, short, Ø44/36mm	1	KL-0039-1666	Pressure-/Support Sleeve, short, Ø66/58mm	1	KL-0039-1686	Pressure-/Support Sleeve, short, Ø86/78mm	1
KL-0039-1646	Pressure-/Support Sleeve, short, Ø46/38mm	1	KL-0039-1668	Pressure-/Support Sleeve, short, Ø68/60mm	1	KL-0039-1688	Pressure-/Support Sleeve, short, Ø88/80mm	1
KL-0039-1648	Pressure-/Support Sleeve, short, Ø48/40mm	1	KL-0039-1670	Pressure-/Support Sleeve, short, Ø70/62mm	1	KL-0039-1690	Pressure-/Support Sleeve, short, Ø90/82mm	1
KL-0039-1650	Pressure-/Support Sleeve, short, Ø50/42mm	1						

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## KL-0039-170 K

Pressure/Support Sleeve Set,  
Ø 30-90mm, long, 115mm, in a Plastic Storage Case

Indispensable tool set for pressing in and pressing out silentblocs, shafts, bushings etc. The sleeves are used in conjunction with the tools of the **KL-0039-... Series**.

**Scope of Delivery: KL-0039-170 K Pressure/Support Sleeve Set, Ø 30-90mm, long, 115mm, in a Plastic Storage Case**

Part No.	Description	Qty
KL-0039-170 E	Pressure/Support Sleeve Set, Ø 30-90mm, long, 115mm	1
KL-4999-1390	Plastic Storage Case	1

**Scope of Delivery: KL-0039-170 E Pressure/Support Sleeve Set, Ø 30-90mm, long, 115mm, in a Foam Insert**

Part No.	Description	Qty
KL-0039-170	Pressure/Support Sleeve Set Ø 30-90mm, long, 115mm	1
KL-4999-1311	Foam Insert	1

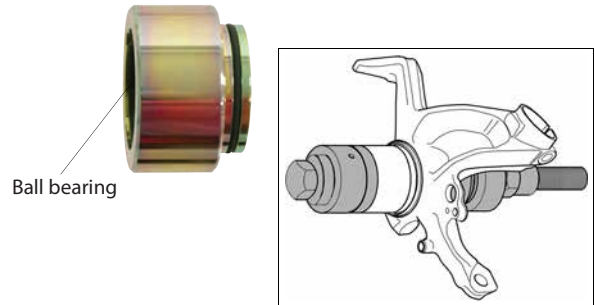
**Scope of Delivery: KL-0039-170 Pressure/Support Sleeve Set, Ø 30-90mm, long, 115mm**

Part No.	Description	Qty	Part No.	Description	Qty	Part No.	Description	Qty
KL-0039-1730	Pressure-/Support Sleeve, long, Ø 30/22mm	1	KL-0039-1752	Pressure-/Support Sleeve, long, Ø 52/44mm	1	KL-0039-1772	Pressure-/Support Sleeve, long, Ø 72/64mm	1
KL-0039-1732	Pressure-/Support Sleeve, long, Ø 32/24mm	1	KL-0039-1754	Pressure-/Support Sleeve, long, Ø 54/46mm	1	KL-0039-1774	Pressure-/Support Sleeve, long, Ø 74/66mm	1
KL-0039-1734	Pressure-/Support Sleeve, long, Ø 34/26mm	1	KL-0039-1756	Pressure-/Support Sleeve, long, Ø 56/48mm	1	KL-0039-1776	Pressure-/Support Sleeve, long, Ø 76/68mm	1
KL-0039-1736	Pressure-/Support Sleeve, long, Ø 36/28mm	1	KL-0039-1758	Pressure-/Support Sleeve, long, Ø 58/50mm	1	KL-0039-1778	Pressure-/Support Sleeve, long, Ø 78/70mm	1
KL-0039-1738	Pressure-/Support Sleeve, long, Ø 38/30mm	1	KL-0039-1760	Pressure-/Support Sleeve, long, Ø 60/52mm	1	KL-0039-1780	Pressure-/Support Sleeve, long, Ø 80/72mm	1
KL-0039-1740	Pressure-/Support Sleeve, long, Ø 40/32mm	1	KL-0039-1762	Pressure-/Support Sleeve, long, Ø 62/54mm	1	KL-0039-1782	Pressure-/Support Sleeve, long, Ø 82/74mm	1
KL-0039-1742	Pressure-/Support Sleeve, long, Ø 42/34mm	1	KL-0039-1764	Pressure-/Support Sleeve, long, Ø 64/56mm	1	KL-0039-1784	Pressure-/Support Sleeve, long, Ø 84/76mm	1
KL-0039-1744	Pressure-/Support Sleeve, long, Ø 44/36mm	1	KL-0039-1766	Pressure-/Support Sleeve, long, Ø 66/58mm	1	KL-0039-1786	Pressure-/Support Sleeve, long, Ø 86/78mm	1
KL-0039-1746	Pressure-/Support Sleeve, long, Ø 46/38mm	1	KL-0039-1768	Pressure-/Support Sleeve, long, Ø 68/60mm	1	KL-0039-1788	Pressure-/Support Sleeve, long, Ø 88/80mm	1
KL-0039-1748	Pressure-/Support Sleeve, long, Ø 48/40mm	1	KL-0039-1770	Pressure-/Support Sleeve, long, Ø 70/62mm	1	KL-0039-1790	Pressure-/Support Sleeve, long, Ø 90/82mm	1
KL-0039-1750	Pressure-/Support Sleeve, long, Ø 50/42mm	1						

## KL-0039-1011

### Retaining Adaptor for Mechanical Spindle

This tool is necessary to retain the various **KL-0039-..** and **KL-0043-..** pressure/support sleeves if these are to be used with the mechanical drive. The built-in ball bearing allows for accurate and professional working, even under intensive load.



## KL-0040-2592

### Safety Belt for Mechanical Pulling Devices

By fastening the safety belt **KL-0040-2592** to the vehicle and to a mechanical pulling device from the **KL-0039-.. Series**, the latter is prevented from falling.

**Scope of Delivery: KL-0040-2592 Safety Belt for Mechanical Pulling Devices**

Part No.	Description	Qty
KL-0040-2590	Safety Belt for Hydraulic Cylinder 17t	1
KL-0040-2591	Safety Belt Adaptor for Mechanical Pulling Device	1



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## KL-0039-2010 (German Utility Model)

### Pull Spindle, M10x1.25, with Nuts

**Scope of Delivery: KL-0039-2010 Pull Spindle, M10x1.25, with Nuts**

Part No.	Description	Qty
KL-0039-2010-1	Pull Spindle, M10x1.25	1
KL-0039-1910-2	Shoulder Nut, M10x1.25	2



**Technical Data:**

Overall length:	395mm
Max. load capacity:	5t

## KL-0039-2210 (German Utility Model)

### Pull Spindle, M10, with Shoulder Nut and Quick-Action Clamping Nut

The pull spindle with shoulder nut and quick-action clamping nut is used in conjunction with the tools of the **KL-0039-.. Series** to allow bearings, bushings, joints etc. to be removed and installed mechanically.

Thanks to its special design, the quick-action clamping nut can be adjusted simply by sliding it on the pull spindle without any rotational movement. This allows for short assembly/clamping times, as well as quick and easy adjustment and simple operation of the tool.



**Technical Data:**

Overall length:	395mm
Max. load capacity:	5t

**Scope of Delivery: KL-0039-2210 Pull Spindle M10, with Shoulder Nut and Quick-Action Clamping Nut**

Part No.	Description	Qty
KL-0039-2010-1	Pull Spindle, M10x1.25	1
KL-0039-1910-2	Shoulder Nut, M10x1.25	1
KL-0039-2110-2	Quick-Action Clamping Nut, M10x1.25	1

## KL-0039-2012 (German Utility Model)

### Pull Spindle, M12, with Nuts

**Scope of Delivery: KL-0039-2012 Pull Spindle, M12, with Nuts**

Part No.	Description	Qty
KL-0039-2012-1	Pull Spindle, M12	1
KL-0039-1912-2	Shoulder Nut, M12	2



**Technical Data:**

Overall length:	395mm
Max. load capacity:	7t





**Technical Data:**

Overall length:	395mm
Max. load capacity:	7t

**Scope of Delivery: KL-0039-2212 Pull Spindle M12, with Shoulder Nut and Quick-Action Clamping Nut**

Part No.	Description	Qty
KL-0039-2012-1	Pull Spindle, M12	1
KL-0039-1912-2	Shoulder Nut, M12	1
KL-0039-2112-2	Quick-Action Clamping Nut, M12	1

## KL-0039-2212

(German Utility Model)

### Pull Spindle, M12,

### with Shoulder Nut and Quick-Action Clamping Nut

The pull spindle with shoulder nut and quick-action clamping nut is used in conjunction with the tools of the **KL-0039-.. Series** to allow bearings, bushings, joints etc. to be removed and installed mechanically.

Thanks to its special design, the quick-action clamping nut can be adjusted simply by sliding it on the pull spindle without any rotational movement. This allows for short assembly/clamping times, as well as quick and easy adjustment and simple operation of the tool.



**Technical Data:**

Overall length:	395mm
Max. load capacity:	9t

**Scope of Delivery: KL-0039-2014 Pull Spindle, M14, with Nuts**

Part No.	Description	Qty
KL-0039-2014-1	Pull Spindle, M14	1
KL-0039-1914-2	Shoulder Nut, M14	2

## KL-0039-2014

(German Utility Model)

### Pull Spindle, M14, with Nuts

## KL-0039-2214

(German Utility Model)

### Pull Spindle, M14,

### with Shoulder Nut and Quick-Action Clamping Nut

The pull spindle with shoulder nut and quick-action clamping nut is used in conjunction with the tools of the **KL-0039-.. Series** to allow bearings, bushings, joints etc. to be removed and installed mechanically.

Thanks to its special design, the quick-action clamping nut can be adjusted simply by sliding it on the pull spindle without any rotational movement. This allows for short assembly/clamping times, as well as quick and easy adjustment and simple operation of the tool.

**Technical Data:**

Overall length:	395mm
Max. load capacity:	9t

**Scope of Delivery: KL-0039-2214 Pull Spindle M14, with Shoulder Nut and Quick-Action Clamping Nut**

Part No.	Description	Qty
KL-0039-2014-1	Pull Spindle, M14	1
KL-0039-1914-2	Shoulder Nut, M14	1
KL-0039-2114-2	Quick-Action Clamping Nut, M14	1



**Technical Data:**

Overall length:	395mm
Max. load capacity:	13t

## KL-0039-2016

### Pull Spindle, M16, with Nuts

**Scope of Delivery: KL-0039-2016 Pull Spindle M16, with Nuts**

Part No.	Description	Qty
KL-0039-2016-1	Pull Spindle M16	1
KL-0039-1916-2	Shoulder Nut M16	2



**Technical Data:**

Overall length:	395mm
Max. load capacity:	13t

**Scope of Delivery: KL-0039-2216 Pull Spindle M16, with Shoulder Nut and Quick-Action Clamping Nut**

Part No.	Description	Qty
KL-0039-2016-1	Pull Spindle, M16	1
KL-0039-1916-2	Shoulder Nut, M16	1
KL-0039-2116-2	Quick-Action Clamping Nut M16	1

## KL-0039-2216

(German Utility Model)

### Pull Spindle, M16,

### with Shoulder Nut and Quick-Action Clamping Nut

The pull spindle with shoulder nut and quick-action clamping nut is used in conjunction with the tools of the **KL-0039-.. Series** to allow bearings, bushings, joints etc. to be removed and installed mechanically.

Thanks to its special design, the quick-action clamping nut can be adjusted simply by sliding it on the pull spindle without any rotational movement. This allows for short assembly/clamping times, as well as quick and easy adjustment and simple operation of the tool.

## KL-0039-2018

### Pull Spindle, M18, with Nuts

Scope of Delivery: KL-0039-2018 Pull Spindle, M18, with Nuts

Part No.	Description	Qty
KL-0039-2014-1	Pull Spindle M18	1
KL-0039-1914-2	Shoulder Nut, M18	2



Technical Data:

Overall length:	395mm
Max. load capacity:	16t

## KL-0039-2020-1

### Pull Spindle, M20

Note: Use with 2x KL-0040-3009 Nut.



Technical Data:

Overall length:	395mm
Max. load capacity:	20t

## KL-0039-2220

(German Utility Model)

### Pull Spindle, M20,

### with Shoulder Nut and Quick-Action Clamping Nut

The pull spindle with shoulder nut and quick-action clamping nut is used in conjunction with the tools of the **KL-0039-.. Series** to allow bearings, bushings, joints etc. to be removed and installed mechanically.

Thanks to its special design, the quick-action clamping nut can be adjusted simply by sliding it on the pull spindle without any rotational movement. This allows for short assembly/clamping times, as well as quick and easy adjustment and simple operation of the tool.



Technical Data:

Overall length:	395mm
Max. load capacity:	20t

Scope of Delivery: KL-0039-2220 Pull Spindle, M20, with Shoulder Nut and Quick-Action Clamping Nut

Part No.	Description	Qty
KL-0039-2020-1	Pull Spindle, M20	1
KL-0040-3009	Shoulder Nut, M20	1
KL-0039-2120-2	Quick-Action Clamping Nut, M20	1

## KL-0039-23

(German Utility Model)

### Set of Quick-Action Clamping Nuts (5-pc.)

Universally suitable for the tools of the **KL-0039-.. Wheel Bearing/Silenbloc Tool.. Series** with pull spindles having either an **M10x1.25, M12, M14, M16 or M20 retaining thread**.

Thanks to their special design, the quick-action clamping nuts can be adjusted simply by sliding them on the pull spindle without any rotational movement. This allows for short assembly/clamping times, as well as quick and easy adjustment and simple operation of the tool.

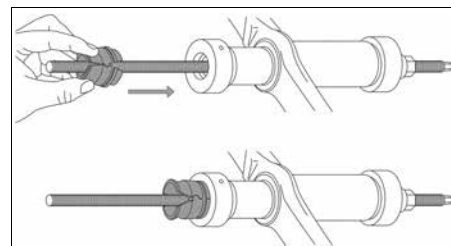


Scope of Delivery: KL-0039-23 Set of Quick-Action Clamping Nuts (5-pc.)

Part No.	Description	Qty
KL-0039-2110-2	Quick-Action Clamping Nut, M10x1.25	1
KL-0039-2112-2	Quick-Action Clamping Nut, M12	1
KL-0039-2114-2	Quick-Action Clamping Nut, M14	1
KL-0039-2116-2	Quick-Action Clamping Nut, M16	1
KL-0039-2120-2	Quick-Action Clamping Nut, M20	1

KL-0039-22 Set of Quick-Action Clamping Nuts (4-pc.)

(Like the KL-0039-23, however, without KL-0039-2116-2)



## KL-0045-70 A

### Hydraulic Spindle (12t),

### with Pressure Piece and Adaptor

The **KL-0045-70 A** is a hydraulic spindle with a maximum allowable force of **120kN (=12t)** designed to fit a wide range of **GEDORE Automotive tools**.

The tool consists of a body made of high-quality steel with two pistons inside, seals rings and various screw connections.

Scope of Delivery: KL-0045-70 A Hydraulic Spindle (12t)

Part No.	Description	Qty
KL-0045-7	Hydraulic Spindle (12t), M42x2	1
KL-0174-552	Adaptor, 2 1/4"-14 UNS to M42x2	1
KL-0045-7021	Adaptor, Ø 20.5mm, with O-Ring	1



### Technical Data:

Maximum admissible force:	105.8kN (10t)
Maximum stroke:	45mm
Maximum oil pressure:	700bar
Maximum volume of oil:	75.91cm <sup>3</sup>
Piston area:	15.11cm <sup>2</sup>
Thread in tubular piston:	M16/Ø 16.5mm
Retaining thread (pushing side):	2¼"-14 UNS
Retaining thread (pulling side):	M42x2
Cylinder outer diameter:	69mm
Overall Length (piston retracted):	217.5mm
Overall Length (piston extended):	262.5mm
Hydraulic fluid connection thread:	3/8" NPT
Weight:	4.65kg

## KL-0040-2200 Hydraulic Cylinder, 10t

Due to its special design as a hollow piston cylinder, the **KL-0040-2200** hydraulic cylinder (10t) can be used to perform pulling and pushing operations in conjunction with the corresponding spindles available as accessories.

**Note:** A hydraulic pump is required to drive the hydraulic cylinder **KL-0040-2200**.



## KL-0040-2800 Hydraulic Cylinder, 28t

Thanks to its special design as a hollow piston cylinder, the **KL-0040-2800** hydraulic cylinder (28t) can be used to perform pulling and pushing operations in conjunction with the corresponding spindles available as accessories.

### Application:

In conjunction with various GEDORE Automotive tools, the hydraulic cylinder **KL-0040-2800** can be used for the removal and installation of drive shafts, wheel hubs, wheel bearings, silentblocs and suspension ball joints.

**Note:** A hydraulic pump is required to drive the hydraulic cylinder **KL-0040-2800**.



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### Technical Data:

Maximum admissible force:	285kN (28t)
Maximum stroke:	50mm
Maximum volume of oil:	216.3cm <sup>3</sup>
Maximum oil pressure:	700bar
Piston area:	40.6cm <sup>2</sup>
Thread in tubular piston:	M24
Retaining thread (pushing side):	2¾"-16 UNS
Retaining thread (pulling side):	M42x2
Cylinder outer diameter:	99mm
Cylinder overall length (piston retracted):	235mm
Cylinder overall length (piston extended):	285mm
Hydraulic fluid connection thread:	3/8" NPT
Weight:	9.6kg

## KL-0040-2500 K Hydraulic Cylinder (17t), in a Plastic Storage Case

Thanks to its special design as a hollow piston cylinder, the **KL-0040-2500** hydraulic cylinder (17t) can be used to perform pulling as well as pushing operations in conjunction with the corresponding spindles available as accessories.

### Application:

In conjunction with various GEDORE Automotive tools, the hydraulic-cylinder (17t) **KL-0040-2500** can be used for the removal and installation of drive shafts, wheel hubs, wheel bearings, silentblocs and suspension ball joints.

The **KL-0039-8009** plastic storage case provides additional storage space for the spindles and adaptors of the **KL-0039-.. Series**.

### Note:

A hydraulic pump is needed to drive the hydraulic cylinder **KL-0040-2500**.

### Scope of Delivery:

**KL-0040-2500 K Hydraulic Cylinder 17t in Plastic storage case**

Part No.	Description	Qty
KL-0040-2500	Hydraulic Cylinder	1
KL-0039-8009	Plastic Storage Case	1



### Technical Data:

Maximum admissible force:	170kN (17t)
Maximum stroke:	45mm
Maximum oil pressure:	700bar
Maximum volume of oil:	122cm <sup>3</sup>
Piston area:	27cm <sup>2</sup>
Thread in tubular piston:	M20
Retaining thread (pushing side):	2¼"-14 UNS
Retaining thread (pulling side):	M42x2
Cylinder external diameter:	80mm
Cylinder overall length (piston retracted):	202mm
Cylinder overall length (piston extended):	247mm
Hydraulic fluid connection thread:	3/8" NPT
Weight:	5.2kg

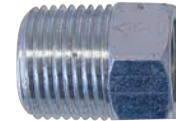
## Accessories for the KL-0040-2500 Hydraulic Cylinder (17t)

### KL-0040-25..

If an already existing hydraulic pump is used as a drive for one of our **KL-0040-..** GEDORE Automotive hydraulic cylinders, it is important that this hydraulic pump is fitted with a hose or coupling having a 3/8" NPT-connection. If the pump has a different connection size, a thread adaptor will be needed.

#### KL-0040-2520 Adapter 3/8" NPT to 1/4" NPT

Suitable for GEDORE Automotive, Longus, Rodcraft etc.

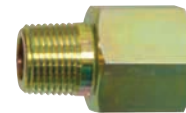


#### KL-0040-2521 Adapter 3/8" NPT to M16x1,5

Suitable for Matra etc.

#### KL-0040-2522 Adapter 3/8" NPT to M18x1,5

Suitable for Weber etc.



#### KL-0040-2523 Adapter 3/8" NPT to G1/4"

Suitable for Nike etc.

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### KL-0215-321

#### Coupling (Hose Side)

**Technical Data:**

Coupling:	1/4"
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### KL-0215-322

#### Coupling (Cylinder Side)

**Technical Data:**

Coupling:	1/4"
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### KL-0040-2528

#### Pressure Gauge for KL-0040-2500, with 3/8" NPT Connection Thread

Suitable for KL-0215-37 etc.

The pressure gauge is screw-fitted between the hydraulic pump and hose so as to allow the hydraulic pressure to be monitored during operation.

The pressure gauge features an additional tonne scale which is specifically adapted to our hydraulic cylinder **KL-0040-2500**.

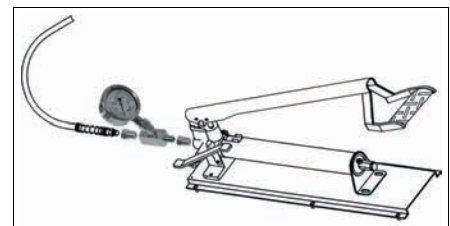
**Technical Data:**

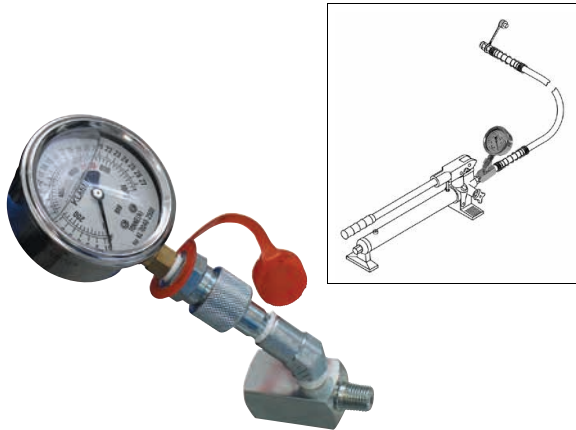
Measuring Range:	1,000bar
Pressure Gauge Ø:	71mm
Connection Thread:	3/8" NPT / 1/4" NPT

**Scope of Delivery:**

**KL-0040-2528 Pressure Gauge for KL-0040-2500, with 3/8" NPT Connection Thread**

Part-No.	Description	Qty
KL-0040-2529	Pressure Gauge for KL-0040-2500 with 1/4" Connection Thread	1
KL-0040-2520	Adaptor, 3/8" NPT to 1/4" NPT	1
KL-0040-2524	Adaptor, 1/4" NPT to 3/8" NPT	1





## KL-0040-2529

### Pressure Gauge for KL-0040-2500, with 1/4" NPT Connection Thread

**Intended for use with KL-0215-35 and KL-0215-36 etc.**

The pressure gauge is screw-fitted between the hydraulic pump and hose so as to allow the hydraulic pressure to be monitored during operation.

The pressure gauge features an additional tonne scale which is specifically adapted to our hydraulic cylinder **KL-0040-2500**.

**Technical Data:**

Measuring Range:	1,000bar
Pressure Gauge Ø:	71mm
Connection Thread:	1/4" NPT

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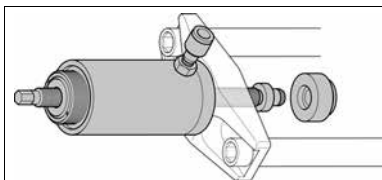
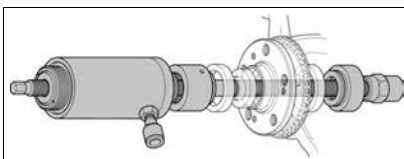


## KL-0039-800 K

### Hydraulic Drive Kit

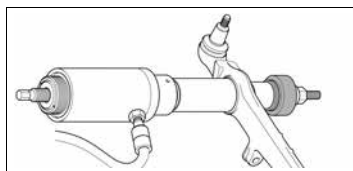
The kit is designed to upgrade our mechanical tool sets such as the pulling device for silentbloc **KL-0039-413 K**, wheel bearing tool set **KL-0039-0110 K** or puller series **KL-0174-...** so as to enable them to be driven by the hydraulic cylinder (17t) **KL-0040-2500**.

Due to its special design as a tubular piston cylinder and thanks to the possibility to be used in conjunction with various spindles, the hydraulic cylinder **KL-0040-2500** is suitable for pulling and pushing operations. Even severely seized bearings, bushes or drive shafts can be removed and installed quickly and easily using the 17t drive kit.



**Scope of Delivery: KL-0039-800 K Hydraulic Drive Kit**

Part No.	Description	Qty
KL-0039-1912	Pull Spindle, M12, with Nut	1
KL-0039-1914	Pull Spindle, M14, with Nut	1
KL-0039-1920-1	Pull Spindle, M20	1
KL-0040-3009	Clamping Nut	1
KL-0039-1920-4	Clamping Nut, Ø 38mm	1
KL-0039-1930	Pressure Spindle, M20x350mm, with O-Ring	1
KL-0039-1935	Thrust Piece	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	1
KL-0040-2500	Hydraulic Cylinder (17t)	1
KL-0039-8009	Plastic Storage Case	1

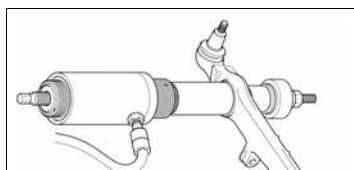


## KL-0039-1002

### Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle

This adaptor is necessary for retaining the various pressure/support sleeves of the **KL-0039-...** and **KL-0043-...Series**.

Retaining Ø for clamping nut or pressure spindle: 20mm



## KL-0039-1003

### Retaining Adaptor with O-Rings, for Hydraulic Cylinder

This adaptor is needed to retain the various **KL-0039-...** and **KL-0043-...** pressure/support sleeves if these are to be used with the hydraulic cylinder **KL-0040-2500**. (Connection thread: M42x2)

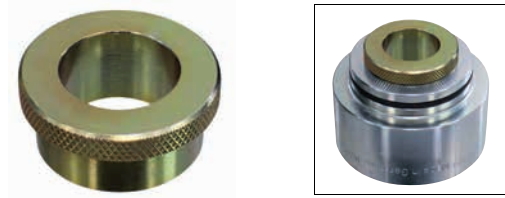
## KL-0039-1005

### Adaptor, Ø 35mm

The **KL-0039-1005** adaptor upgrades the **KL-0040-2500** GEDORE Automotive hydraulic cylinder (17t) by making it suitable also for use on the tools of the wheel bearing/silentbloc tool series having an internal retaining Ø of 35mm. For this, the **KL-0039-1003** retaining adaptor is also necessary.

#### Technical Data:

External Ø:	35mm
Internal Ø:	20.5mm
Height:	16mm



## KL-0039-1004

### Retaining Adaptor with O-Rings, for Pressure Spindle (Ø 18mm)

This tool is needed to retain the various **KL-0039-..** and **KL-0043-..** pressure/support sleeves if these are to be used with the hydraulic drive.



## KL-0039-803 A

(German Utility Model)

### Hydraulic Drive Kit, with Pull Spindle, without Hydraulic Cylinder

This tool kit is designed to complement a mechanical pulling device such as the **KL-0039-412-K**, **KL-0039-413 K** etc., so as to allow these to be driven by the **KL-0040-2500** hydraulic cylinder; for example, required when pressing out/pressing in bushes and suspension ball joints.



#### Scope of Delivery:

**KL-0039-803 Hydraulic Drive Kit, with Pull Spindle, without Hydraulic Cylinder**

Part No.	Description	Qty
KL-0039-1912	Pull Spindle, M12, with Nut	1
KL-0039-1914	Pull Spindle, M14, with Nut	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydr. Cyl.	1

## KL-0039-803 B

(German Utility Model)

### Hydraulic Drive Kit, with Pull Spindle, without Hydraulic Cylinder

This tool kit is designed to complement a mechanical pulling device such as the **KL-0039-412-K**, **KL-0039-413 K** etc., so as to allow these to be driven by the **KL-0040-2500** hydraulic cylinder; for example, required when pressing out/pressing in bushes and suspension ball joints.



#### Scope of Delivery:

**KL-0039-803 Hydraulic Drive Kit, with Pull Spindle, without Hydraulic Cylinder**

Part No.	Description	Qty
KL-0039-2112	Pull Spindle, M12, with Quick-Action Clamping Nut	1
KL-0039-2114	Pull Spindle, M14, with Quick-Action Clamping Nut	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydr. Cyl.	1

## KL-0039-1910

(German Utility Model)

### Pull Spindle, M10x1.25, with Nut

**Scope of Delivery: KL-0039-1910 Pull Spindle, M10x1.25, with Nut**

Part No.	Description	Qty
KL-0039-1910-1	Pull Spindle, M10x1.25	1
KL-0039-1910-2	Shoulder Nut, M10x1.25	1



#### Technical Data:

Overall length:	590mm
Working travel:	390mm
Maximum load capacity:	5t

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## KL-0039-2110 (German Utility Model) Pull Spindle, M10, with Quick-Action Clamping Nut



The pull spindle with quick-action clamping nut is used in conjunction with the tools of the **KL-0039... Series** and the **KL-0040-2500** hydraulic cylinder (17t) to allow bearings, bushings, joints etc. to be removed and installed hydraulically. Thanks to its special design, the quick-action clamping nut can be adjusted simply by sliding it on the pull spindle without any rotational movement. This allows for short assembly/clamping times as well as quick and easy adjustment and simple operation of the tool.

### Technical Data:

Overall length:	590mm
Drive:	390mm
Max. load capacity:	5t

### Scope of Delivery: KL-0039-2110 Pull Spindle M10, with Quick-Action Clamping Nut

Part No.	Description	Qty
KL-0039-2110-2	Quick-Action Clamping Nut, M10x1	1
KL-0039-1910-1	Pull Spindle, M10x1.25	1

## KL-0039-1912 Pull Spindle, M12, with Nut



### Technical Data:

Overall length:	590mm
Working travel:	390mm
Maximum load capacity:	7t

### Scope of Delivery: KL-0039-1912 Pull Spindle, M12, with Nut

Part No.	Description	Qty
KL-0039-1912-1	Pull Spindle M12	1
KL-0039-1912-2	Shoulder Nut M12	1

## KL-0039-2112 (German Utility Model) Pull Spindle, M12, with Quick-Action Clamping Nut



The pull spindle with quick-action clamping nut is used in conjunction with the tools of the **KL-0039... Series** and the **KL-0040-2500** hydraulic cylinder (17t) to allow bearings, bushings, joints etc. to be removed and installed hydraulically. Thanks to its special design, the quick-action clamping nut can be adjusted simply by sliding it on the pull spindle without any rotational movement. This allows for short assembly/clamping times as well as quick and easy adjustment and simple operation of the tool.

### Technical Data:

Overall length:	590mm
Drive:	390mm
Max. load capacity:	7t

### Scope of Delivery: KL-0039-2112 Pull Spindle M12, with Quick-Action Clamping Nut

Part No.	Description	Qty
KL-0039-2112-2	Quick-Action Clamping Nut, M12	1
KL-0039-1912-1	Pull Spindle, M12	1

## KL-0039-1914 Pull Spindle, M14, with Nut



### Technical Data:

Overall length:	590mm
Working travel:	390mm
Maximum load capacity:	9t

### Scope of Delivery: KL-0039-1914 Pull Spindle, M14, with Nut

Part No.	Description	Qty
KL-0039-1914-1	Pull Spindle, M14	1
KL-0039-1914-2	Shoulder Nut, M14	1

## KL-0039-2114 (German Utility Model) Pull Spindle, M14, with Quick-Action Clamping Nut



The pull spindle with quick-action clamping nut is used in conjunction with the tools of the **KL-0039... Series** and the **KL-0040-2500** hydraulic cylinder (17t) to allow bearings, bushings, joints etc. to be removed and installed hydraulically. Thanks to its special design, the quick-action clamping nut can be adjusted simply by sliding it on the pull spindle without any rotational movement. This allows for short assembly/clamping times, as well as quick and easy adjustment and simple operation of the tool.

### Technical Data:

Overall length:	590mm
Drive:	390mm
Max. load capacity:	9t

### Scope of Delivery: KL-0039-2114 Pull Spindle M14, with Quick-Action Clamping Nut

Part No.	Description	Qty
KL-0039-1914-1	Pull Spindle, M14	1
KL-0039-2114-2	Quick-Action Clamping Nut, M14	1

## KL-0039-1916

### Pull Spindle, M16, with Nut

Scope of Delivery: KL-0039-1916 Pull Spindle, M16, with Nut

Part No.	Description	Qty
KL-0039-1916-1	Pull Spindle, M16	1
KL-0039-1916-2	Shoulder Nut, M16	1



#### Technical Data:

Overall length:	590mm
Working travel:	390mm
Maximum load capacity:	13t

## KL-0039-2116

(German Utility Model)

### Pull Spindle, M16, with Quick-Action Clamping Nut

The pull spindle with quick-action clamping nut is used in conjunction with the tools of the **KL-0039-.. Series** and the **KL-0040-2500** hydraulic cylinder (17t) to allow bearings, bushings, joints etc. to be removed and installed hydraulically.

Thanks to its special design, the quick-action clamping nut can be adjusted simply by sliding it on the pull spindle without any rotational movement. This allows for short assembly/clamping times, as well as quick and easy adjustment and simple operation of the tool.

Scope of Delivery: KL-0039-2116 Pull Spindle M16, with Quick-Action Clamping Nut

Part No.	Description	Qty
KL-0039-1916-1	Pull Spindle, M16	1
KL-0039-2116-2	Quick-Action Clamping Nut, M16	1



#### Technical Data:

Overall length:	590mm
Drive:	390mm
Max. load capacity:	13t

## KL-0039-1920

(German Utility Model)

### Pull Spindle, M20, with Clamping Nut

Scope of Delivery: KL-0039-1920 Pull Spindle, M20, with Clamping Nut

Part No.	Description	Qty
KL-0039-1920-1	Pull Spindle, M20	1
KL-0040-3009	Clamping Nut	1



#### Technical Data:

Overall length:	590mm
Working travel:	390mm
Maximum load capacity:	20t

## KL-0039-2120

(German Utility Model)

### Pull Spindle, M20, with Quick-Action Clamping Nut

The pull spindle with quick-action clamping nut is used in conjunction with the tools of the **KL-0039-.. Series** and the **KL-0040-2500** hydraulic cylinder (17t) to allow bearings, bushings, joints etc. to be removed and installed hydraulically.

Thanks to its special design, the quick-action clamping nut can be adjusted simply by sliding it on the pull spindle without any rotational movement. This allows for short assembly/clamping times, as well as quick and easy adjustment and simple operation of the tool.

Scope of Delivery: KL-0039-2120 Pull Spindle M20, with Quick-Action Clamping Nut

Part No.	Description	Qty
KL-0039-1920-1	Pull Spindle, M20	1
KL-0039-2120-2	Quick-Action Clamping Nut, M20	1



#### Technical Data:

Overall length:	590mm
Drive:	390mm
Max. load capacity:	20t

## KL-0039-1930

### Pressure Spindle with O-Ring, M20x350mm

#### Technical Data:

Pin Ø:	20mm
Overall length:	350mm
Maximum load capacity:	20t



## KL-0039-1931

### Pressure Spindle with O-Ring, M20x405mm

#### Technical Data:

Pin-Ø:	20mm
Overall length:	405mm
Maximum load capacity:	20t



#### Note:

Required e.g. for tool sets **KL-0610-11, -12, -13** and **KL-1615-11**.





## KL-0040-2590

### Safety Belt for Hydraulic Cylinder (17t)

By fastening the **KL-0040-2590** safety belt to the vehicle and to the hydraulic cylinder **KL-0040-2500**, the latter is prevented from falling.



## KL-0040-258 A

### Retaining Device

### for Hydraulic Cylinder KL-0040-2500

The **KL-0040-258 A retaining device** is used in conjunction with a transmission jack (Plunger Ø 30mm) thus allowing for the easy and trouble-free operation of all those GEDORE Automotive tools that are driven by the **KL-0040-2500** hydraulic cylinder.

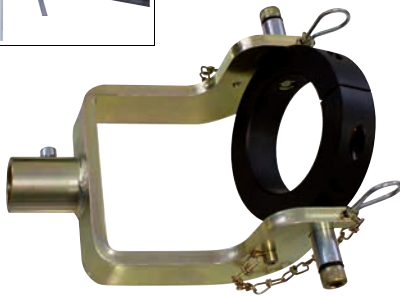
#### Technical Data:

Retaining Ø:	30mm
Weight:	2.6kg

#### Scope of Delivery:

#### KL-0040-258 A Retaining Device for Hydraulic Cylinder KL-0040-2500

Part No.	Description	Qty
KL-0040-2580 A	Retaining Device without Clamp Ring	1
KL-0040-2587	Clamp Ring for Hydraulic Cylinder	1



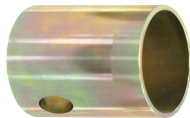
## KL-0040-2588

### Adaptor Sleeve, VW, Ø 36mm

This adaptor is needed to use the retaining devices **KL-0040-258 A** and **KL-0040-288**, and the **KL-0145-120** supporting device in conjunction with the VW transmission jacks having a retaining Ø of 36mm.

#### Technical Data:

Pin Ø:	30mm
Retaining Ø:	36mm



## KL-0040-2571

### Adaptor Sleeve, Ø 25mm

This adaptor is needed to use the retaining device **KL-0040-258 A**, **KL-0040-288** or the supporting device for control arm **KL-0145-120** in conjunction with a transmission jack having a plunger with Ø 25mm.



## KL-0145-120 A

### Supporting Device for Control Arm

#### Universal application.

The device is used in conjunction with a transmission jack for supporting control arms. The support takes place via the wheel hub, thus, ensuring the correct raising and lowering of control arms/axles to specified positions.

An indispensable tool when removing and installing a suspension strut.

## Accessories for the KL-0045-7 Hydraulic Spindle (12t)

### KL-0040-2593

#### Safety Belt Adaptor for Hydraulic Spindle

The **KL-0040-2593** adaptor is designed to retain the hydraulic spindle **KL-0045-7** in the **KL-0040-2590** safety belt.



### KL-0040-2594

#### Safety Belt for Hydraulic Spindle

By fastening the safety belt **KL-0040-2594** to the vehicle and to the hydraulic spindle **KL-0045-7**, the latter is prevented from falling.

**Scope of Delivery: KL-0040-2594 Safety Belt for Hydraulic Spindle**

Part No.	Description	Qty
KL-0040-2590	Safety Belt for Hydraulic Cylinder 17 t	1
KL-0040-2593	Safety Belt Adaptor for Hydraulic Spindle	1



4

## Accessories for the KL-0040-2200 Hydraulic Cylinder (10t)

### KL-0040-2241

#### Pressure Spindle, M16

**Technical Data:**

Length:	350mm
Maximum load capacity:	13t



### KL-0040-2242

#### Pull Spindle, M16, with Nut

**Scope of Delivery: KL-0040-2242 Pull Spindle, M16, with Nut**

Part No.	Description	Qty
KL-0040-2242-1	Pull Spindle, M16x590mm	1
KL-0039-1916-2	Shoulder Nut, M16	1



**Technical Data:**

Length:	590mm
Maximum load capacity:	13t

### KL-0040-2229

#### Pressure Gauge for KL-0040-2200, with 1/4" NPT Connection Thread

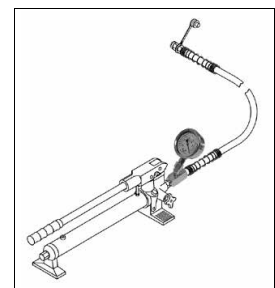
**Suitable for KL-0215-35 und KL-0215-36 etc.**

The pressure gauge can be screw-connected between the hydraulic pump and hose so as to allow the hydraulic pressure to be monitored during operation.

The pressure gauge features an additional tonne scale that is specifically adapted to our hydraulic cylinder **KL-0040-2200**.

**Technical Data:**

Measuring Range:	1,000bar
Pressure gauge Ø:	71mm
Connection thread:	1/4" NPT





## KL-0040-2228

Pressure Gauge for KL-0040-2200, with 3/8" NPT Connection Thread

**Suitable for KL-0215-37 etc.**

The pressure gauge can be screw-connected between the hydraulic pump and hose so as to allow the hydraulic pressure to be monitored during operation. The pressure gauge features an additional tonne scale that is specifically adapted to our hydraulic cylinder **KL-0040-2200**.

**Scope of Delivery:**

**KL-0040-2228 Pressure Gauge for KL-0040-2200, with 3/8" NPT Connection Thread**

**Technical Data:**

Measuring Range:	1,000bar
Pressure gauge Ø:	71mm
Connection thread:	3/8" NPT

Part No.	Description	Qty
KL-0040-2229	Pressure Gauge for KL-0040-2200, with 1/4" NPT Connection Thread	1
KL-0040-2520	Adaptor 3/8" NPT to 1/4" NPT	1
KL-0040-2524	Adaptor 1/4" NPT to 3/8" NPT	1

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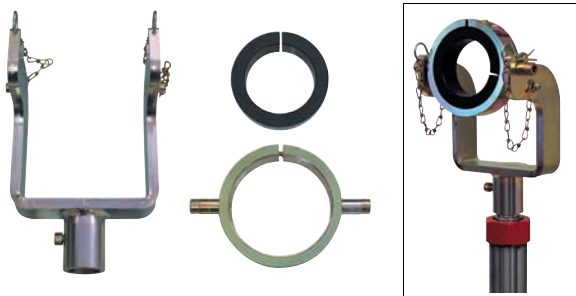


## KL-0040-2290

Safety Belt for Hydraulic Cylinder (10t)

By using the safety belt **KL-0040-2290** on the vehicle and on the hydraulic cylinder **KL-0040-2200**, the latter is prevented from falling.

### Accessories for the KL-0040-2800 Hydraulic Cylinder (28t)



## KL-0040-288

Retaining Device for Hydraulic Cylinder KL-0040-2800

The **KL-0040-288** retaining device is used in conjunction with a transmission jack (plunger Ø of 30mm), thus enabling easy and trouble-free working with all those GEDORE Automotive tools that are driven by the **KL-0040-2800** hydraulic cylinder.

**Scope of Delivery: KL-0040-288 Retaining Device for Hydr. Cyl. KL-0040-2800**

**Technical Data:**

Retaining Ø:	30mm
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Part No.	Description	Qty
KL-0040-2580 A	Retaining Device without Clamp Ring	1
KL-0040-2881	Clamp Ring for Hydraulic Cylinder	1
KL-0040-2882	Adaptor Ring	1

## KL-0040-2810

Pressure Spindle, M24



**Technical Data:**

Length:	405mm
Maximum load capacity:	28t

## KL-0040-2812

Pull Spindle, M24, with Clamping Nut



**Suitable for hydraulic cylinder KL-0040-2800.**

**Scope of Delivery: KL-0040-2812 Pull Spindle, M24, with Clamping Nut**

**Technical Data:**

Length:	590mm
Maximum load capacity:	28t

Part No.	Description	Qty
KL-0040-2812-1	Pull Spindle, M24x590mm	1
KL-0040-2812-3	Clamping Nut, M24/Ø 40mm	1

## KL-0040-2846-1

### Pull Spindle, M20x590mm

Suitable for hydraulic cylinder **KL-0040-2800**.



#### Technical Data:

Length:	590mm
Thread:	M20
Max. load capacity:	20t

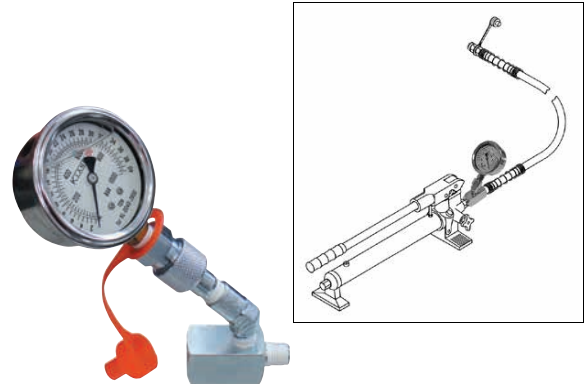
## KL-0040-2829

### Pressure Gauge for KL-0040-2800, with 1/4" NPT Connection Thread

Suitable for **KL-0215-35** and **KL-0215-36** etc.

The pressure gauge can be screw-connected between the hydraulic pump and hose so as to allow the hydraulic pressure to be monitored during operation.

The pressure gauge features an additional tonne scale that is specifically adapted to our hydraulic cylinder **KL-0040-2800**.



#### Technical Data:

Measuring Range:	1,000bar
Pressure Gauge Ø:	71mm
Connection Thread:	1/4" NPT

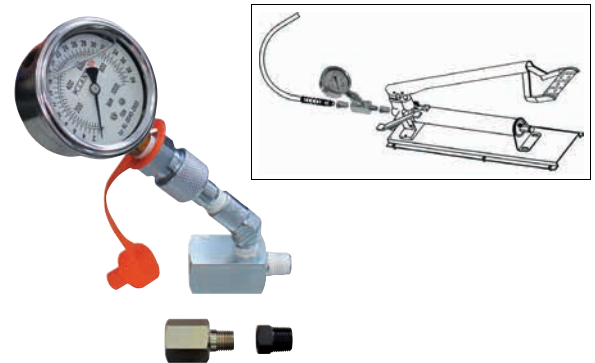
## KL-0040-2828

### Pressure Gauge for KL-0040-2800, with 3/8" NPT Connection Thread

Suitable for **KL-0215-36** etc.

The pressure gauge can be screw-connected between the hydraulic pump and hose so as to allow the hydraulic pressure to be monitored during operation.

The pressure gauge features an additional tonne scale that is specifically adapted to our hydraulic cylinder **KL-0040-2800**.



#### Scope of Delivery:

**KL-0040-2828** Pressure Gauge for KL-0040-2800, with 3/8" NPT Connection Thread

Part No.	Description	Qty
KL-0040-2829	Pressure Gauge for KL-0040-2800 with 1/4" Connection Thread	1
KL-0040-2520	Adaptor, 3/8" NPT to 1/4" NPT	1
KL-0040-2524	Adaptor, 1/4" NPT to 3/8" NPT	1

#### Technical Data:

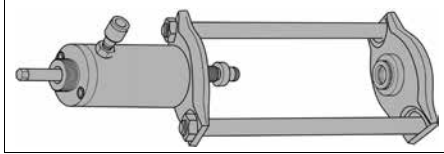
Measuring Range:	1,000bar
Pressure Gauge Ø:	71mm
Connection Thread:	3/8" NPT

## KL-0040-2890

### Safety Belt for Hydraulic Cylinder (28t)

By fastening the safety belt **KL-0040-2890** to the vehicle and to the hydraulic cylinder **KL-0040-2800**, the latter is prevented from falling.





## KL-0039-1140

### Press Frame (Lightweight, Short Design)

Short design, without drive.

#### Technical Data:

Inner width:	115mm
Inner length:	275mm
Maximum load capacity:	12t
Cylinder connection thread:	2¼"-14 UNS
Weight:	4.7kg

#### Scope of Delivery: KL-0039-1140 Press Frame (Lightweight, Short Design)

Part No.	Description	Qty
KL-0039-114	Frame Bars (pair), 285mm long, with Hex Nuts	1
KL-0039-1144	Base Plate, 2¼"-14 UNS	2
KL-0039-1105	Adaptor with O-Ring, 2¼"-14 UNS to Ø 30mm	1

4



## KL-0039-115

### Frame Bars (Pair), 350mm long, with Hex Nuts

Used to retool the press frame **KL-0039-1140** to an internal length of 350mm. Required, for example, when using a long pressure sleeve and a long support sleeve of the **KL-0039-17.. Series**.

## KL-0039-1160 K

### Press Frame Kit, without Hydr. Cyl., in a Plastic Storage Case

An indispensable kit for pressing in and pressing out suspension ball joints, bushings etc. Used in conjunction with the tools of the **KL-0039-..Series**.

#### Scope of Delivery:

#### KL-0039-1160 K Press Frame Kit, without Hydraulic Cylinder

Part No.	Description	Qty
KL-0039-1160 E	Press Frame Kit, without Hydraulic Cylinder, in a Foam Insert	1
KL-4999-1391	Plastic Storage Case	1

#### Scope of Delivery:

#### KL-0039-1160 E Press Frame Kit, without Hydraulic Cylinder, in a Foam Insert

Part No.	Description	Qty
KL-0039-1160	Press Frame Kit, without Hydraulic Cylinder	1
KL-4999-1318	Foam Insert	1

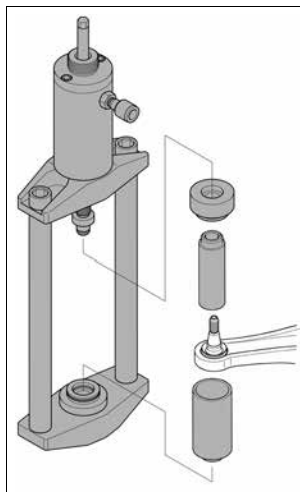
#### Scope of Delivery:

#### KL-0039-1160 Press Frame Kit, without Hydraulic Cylinder

Part No.	Description	Qty
KL-0039-1161	Press Frame Kit, without Drive	1
KL-0039-1002	Retaining Adaptor for Clamping Nut	1
KL-0039-1930	Pressure Spindle, M20x350mm, with O-Ring	1



KL-0039-1160 E



## KL-0039-1161 E

### Press Frame Kit, without Drive, in a Foam Insert

Like the **KL-0039-1160 E**, however without the Spindle **KL-0039-1930** and without the Adaptor **KL-0039-1002** (not shown).

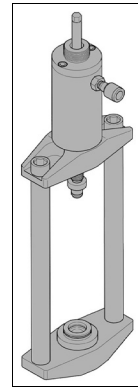
## KL-0039-1110 Press Frame (Short Design)

Short design, without drive.

### Scope of Delivery:

#### KL-0039-1110 Press Frame (Short Design)

Part No.	Description	Qty
KL-0039-1101	Base Plate	2
KL-0039-111	Frame Bars (pair), 285mm long, with Cheese Head Screws	1
KL-0039-1105	Adaptor with O-Ring, 2¼"-14 UNS to Ø 30mm	1



### Technical Data:

Inner width:	135mm
Inner length:	275mm
Maximum load capacity:	17t
Cylinder connection thread:	2¼"-14 UNS
Weight:	7.8kg

## KL-0039-113 Frame Bars (Pair), 350mm long, with Cheese Head Screws

Used to retool the press frame **KL-0039-1110** to an inner length of 350mm. Required, for example, when using a long pressure sleeve and a long support sleeve of the **KL-0039-17.. Series**.



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## KL-0039-809 A Hydraulic Drive Kit, with Press Frame

This tool is designed to upgrade a mechanical pulling device such as the **KL-0039-412 K**, **KL-0039-413 K** etc. so as to allow these to be driven by the **KL-0040-2500** hydraulic cylinder. The drive can also be used for pressing out and pressing in bushes and suspension ball joints.

### Scope of Delivery: KL-0039-809 A Hydraulic Drive Kit with Press Frame

Part No.	Description	Qty
KL-0039-803 A	Hydraulic Drive Kit with Pull spindle, without Hydraulic Cylinder	1
KL-0039-1930	Pressure Spindle with O-Ring, M20x350mm	1
KL-0039-1140	Press Frame (lightweight, short)	1

### Scope of Delivery: KL-0039-803 Hydraulic Drive Kit, with Pull Spindle

Part No.	Description	Qty
KL-0039-1912	Pull Spindle, M12, with Nut	1
KL-0039-1914	Pull Spindle, M14, with Nut	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydr. Cyl.	1



## KL-0039-809 B Hydraulic Drive Kit, with Press Frame

This tool is designed to upgrade a mechanical pulling device such as the **KL-0039-412 K**, **KL-0039-413 K** etc. so as to allow these to be driven by the **KL-0040-2500** hydraulic cylinder. For example, required when pressing out and pressing in bushes and suspension ball joints.

### Scope of Delivery: KL-0039-809 B Hydraulic Drive Kit with Press Frame

Part No.	Description	Qty
KL-0039-803 B	Hydraulic Drive Kit, with Pull Spindle, without Hydraulic Cylinder	1
KL-0039-1930	Pressure Spindle, with O-Ring, M20x350mm	1
KL-0039-1140	Press Frame (lightweight, short)	1

### Scope of Delivery: KL-0039-803 B Hydraulic Drive Kit, with Pull Spindle

Part No.	Description	Qty
KL-0039-2112	Pull Spindle, M12, with Quick-Action Clamping Nut	1
KL-0039-2114	Pull Spindle, M14, with Quick-Action Clamping Nut	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	1





## KL-0174-831 Mechanical Drive Set

The mechanical drive set **KL-0174-831** enables GEDORE Automotive pressing devices, for example those consisting of press frame **KL-0039-1140**, **KL-0326-1000** etc. and sleeve sets of the **KL-0039 Series**, to be driven mechanically.

**Scope of Delivery:**  
**KL-0174-831 Mechanical Drive Set**

Part No.	Description	Qty
KL-0174-620	Spindle, M20x2x230mm	1
KL-0174-547	Adaptor, 2 1/4"-14 UNS to M20x2	1
KL-0174-853	Thrust Piece for Mechanical Spindle	1

4

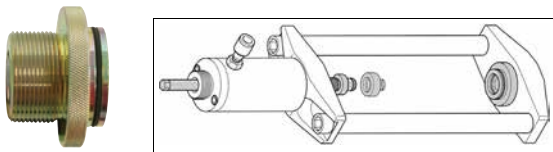


## KL-1000-03 Stand for Press Frame

This tool is designed for the fastening of the mobile 28t press frame **KL-1000-01**, the 17t press frame **KL-0043-900** or any other press frame of the **KL-0039-.. Series**. Thus, the respective GEDORE press frame can be used as a stationary bench press.

**Technical Data:**

Retaining thread:	2 1/4"-14 UNS
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## KL-0039-1106 Adaptor with O-Ring, M42x2 to Ø 30mm

This adaptor is needed when the various pressure/support sleeves of the **KL-0039-.. Series** are to be used in conjunction with the press frames of the **KL-0043-.. Series**.

**Technical Data:**

Thread:	M42x2 to Ø 30mm
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## KL-0039-1105 Adaptor with O-Ring, 2 1/4"-14 UNS to Ø 30mm

This adaptor is needed when the various pressure/support sleeves of the **KL-0039-.. Series** are to be used in conjunction with the press frames of the **KL-0039-.. Series**.

**Technical Data:**

Thread:	2 1/4"-14 UNS to Ø 30mm
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Retaining thread for hydraulic cylinder



Retaining thread for tool set

## KL-0040-2855 Adaptor, 2 1/4"-14 UNS to 2 3/4"-16 UN

This tool enables a hydraulic cylinder with a 2 3/4"-16 UN retaining thread to be used as a drive for the GEDORE Automotive hydraulic tool sets.

**Technical Data:**

External thread:	2 1/4"-14 UNS
Internal thread:	2 3/4"-16 UN

**Note:**

The external thread 2 1/4"-14 UNS measured on the tool set features an internal Ø of 55.15mm. The internal thread 2 3/4"-16 UN measured on the hydraulic cylinder to be screwed in features an external Ø of 69.65mm.

## KL-0174-556

### Adaptor, 2 1/4"-14 UNS to M68x2

Required to use a hydraulic cylinder having an M68x2 retaining thread as a drive for the GEDORE Automotive Hydraulic Tool Sets.

**Technical Data:**

External thread:	2 1/4"-14 UNS
Internal thread:	M68x2

**Note:**

The external thread 2 1/4"-14 UNS, measured on the tool set, has an internal Ø of 55.15mm. The internal thread M60x2 measured on the hydraulic cylinder to be screwed in, has an external Ø of 68mm.

Retaining thread for hydraulic cylinder



Retaining thread for tool set

## KL-0174-558

### Adaptor, 2 1/4"-14 UNS to M55x2

**Compatible with the Gedore wheel hub puller for HGV 1.62.**

This adaptor is needed to use the 17t hydraulic cylinder **KL-0040-2500** in conjunction with pressure spindle **KL-0039-1930** and pressure piece **KL-0039-1935** as a drive for the Gedore wheel hub puller for HGV 1.62 (Code 8026030).

Even severely stuck/seized wheel hubs are no longer an issue using the **KL-0040-2500** 17t hydraulic cylinder.

Retaining thread for hydraulic cylinder



Retaining thread for tool set

4

## KL-0174-559

### Adaptor, 2 1/4"-14 UNS to 2 1/4"-14 UNS

This adaptor is needed to operate the hydraulic cylinder **KL-0040-2500** when the perforated puller plates (size 2 and size 3) having a pitch circle diameter of 90-102mm from the **KL-0174-.. Series** are to be used.

**Technical Data:**

External thread:	2 1/4"-14 UNS
Internal thread:	2 1/4"-14 UNS

**Note:** Other dimensions available upon request.

Retaining thread for hydraulic cylinder



Retaining thread for tool set

## KL-0174-561

### Adaptor, 2 1/4"-16 UN to 2 1/4"-14 UNS

This tool is necessary if the hydraulic cylinder **KL-0040-2500** is to be used as a drive for a tool set having a 2 1/4"-16 UN retaining thread.

**Technical Data:**

External thread:	2 1/4"-16 UN
Internal thread:	2 1/4"-14 UNS

**Note:** The external thread 2 1/4"-16 UN measured on the tool set, features an internal Ø of 55.15mm. The internal thread 2 1/4"-14 UNS measured on the hydraulic cylinder to be screwed in, features an external Ø of 56.95mm.

Retaining thread for hydraulic cylinder



Retaining thread for tool set

## KL-0174-562

### Adaptor, 2 3/4"-16 UN to 2 1/4"-14 UNS

This tool is required if the 17t hydraulic cylinder **KL-0040-2500** or the 10t hydraulic cylinder **KL-0040-2200** are to be used as a drive for press frame **KL-1000-01**.

**Technical Data:**

External Thread:	2 3/4"-16 UN
Internal Thread:	2 1/4"-14 UNS

**Note:** The external thread 2 3/4"-16 UN measured on the tool set, has an internal Ø of 68.25mm. The internal thread 2 1/4"-14 UNS measured on the hydraulic cylinder to be screwed in, features an external Ø of 56.95mm.

Retaining thread for hydraulic cylinder



Retaining thread for tool set



Retaining thread for hydraulic cylinder



Retaining thread for tool set

## KL-0174-563

### Adaptor, 2 1/4"-14 UN to Ø 60mm

Component for the assembly of a puller from the KL-0174-.. Puller Series.

**Technical Data:**

External thread:	2 1/4"-14 UNS
Retaining bore:	Ø 60/46mm

**Note:** 2 1/4"-14 UNS measured on the tool set has internal Ø of 55.15mm. Retaining bore specially designed for the adaptor **KL-0039-1003**.

Retaining thread for hydraulic cylinder



Retaining thread for tool set

## KL-0174-565

### Adaptor, M68x2 to 2 1/4"-14 UNS

Component for the assembly of a puller from the KL-0174-.. Puller Series.

**Technical Data:**

External thread:	M68x2
Internal thread:	2 1/4"-14 UNS

**Note:** The external thread M68x2, measured on the tool set, has an internal Ø of 65.85mm. The internal thread 2 1/4"-14 UNS, measured on the hydraulic cylinder to be screwed in, features an external Ø of 56.95mm.

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Retaining thread for hydraulic cylinder



Retaining thread for tool set

## KL-0174-566

### Adaptor, 2 1/4"-14 UNS to M60x2

Necessary to use a hydraulic cylinder having an M60x2 retaining thread as a drive for the GEDORE Automotive Hydraulic Tool Sets.

**Technical Data:**

External Thread:	2 1/4"-14 UNS
Internal Thread:	M60x2

**Note:** The external thread 2 1/4"-14 UNS measured on the tool set, has an internal Ø of 55.15mm. The internal thread M60x2 measured on the hydraulic cylinder to be screwed in, has an external Ø of 60mm.

Retaining thread for hydraulic cylinder



Retaining thread for tool set

## KL-0174-567

### Adaptor, 2 1/4"-14 UNS to G1 1/2"-11

Necessary to use a hydraulic cylinder having a G1 1/2"-11 retaining thread as a drive for the GEDORE Automotive Hydraulic Tool Sets.

**Technical Data:**

External thread:	2 1/4"-14 UNS
Internal thread:	G1 1/2"-11

**Note:** The external thread 2 1/4"-14 UNS, measured on the tool set, has an internal Ø of 55.15mm. The internal thread G1 1/2"-11 UNS, measured on the hydraulic cylinder to be screwed in, has an external Ø of 47.8mm.

Retaining thread for hydraulic cylinder



Retaining thread for tool set

## KL-0174-568

### Adaptor, M60x2 to 2 1/4"-14 UNS

This adaptor is required to use the Hydraulic Cylinder **KL-0040-2500** as a drive for tool sets having an M60x2 retaining thread.

**Technical Data:**

External thread:	M60x2
Internal thread:	2 1/4"-14 UNS

**Note:** The external thread M60x2, measured on the tool, set has an internal Ø of 57.85mm. The internal thread 2 1/4"-14 UNS, measured on the hydraulic cylinder to be screwed in, has an external Ø of 56.95mm.

## KL-0174-569

### Adaptor, 1 1/2"-16 UN to 2 1/4"-14 UNS

This adaptor is required to use the Hydraulic Cylinder **KL-0040-2500** as a drive for tool sets having a 1 1/2"-16 UN retaining thread.

**Technical Data:**

External thread:	1 1/2"-16 UN
Internal thread:	2 1/4"-14 UNS

**Note:** The external thread 1 1/2"-16 UN, measured on the tool set, has an internal Ø of 36.6mm. The internal thread 2 1/4"-14 UNS measured on the Hydraulic Cylinder to be screwed in, has an external Ø of 56.95mm.

Retaining thread for hydraulic cylinder



Retaining thread for tool set

## KL-0174-571

### Adaptor, M40x2 to 2 1/4"-14 UNS

This adaptor is required to use the Hydraulic Cylinder **KL-0040-2500** as a drive for tool sets having an M40x2 retaining thread.

**Technical Data:**

External thread:	M40x2
Internal thread:	2 1/4"-14 UNS

**Note:** The external thread M40x2, measured on the tool set, has an internal Ø of 38mm. The internal thread 2 1/4"-14 UNS measured on the hydraulic cylinder to be screwed in, has an external Ø of 56.95mm.

Retaining thread for hydraulic cylinder



Retaining thread for tool set

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## KL-0174-853

### Thrust Piece for Mechanical Spindle, with O-Rings

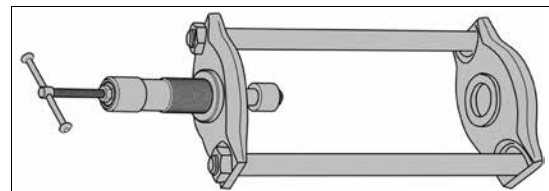
The tool is needed when spindle **KL-0174-620** or **KL-0174-817** and adaptor **KL-0174-547** are used as a mechanical drive for the GEDORE Automotive pressing devices.



## KL-0045-7021

### Adaptor (Pin Ø 20mm)

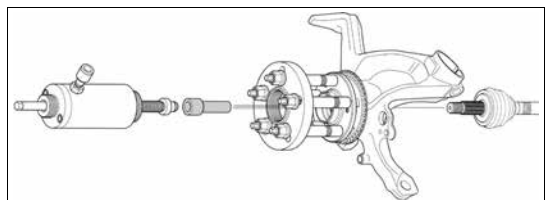
This tool is required when the various pressure/support sleeves of the **KL-0039-.. Series** are to be used in conjunction with the hydraulic spindle **KL-0045-70**.

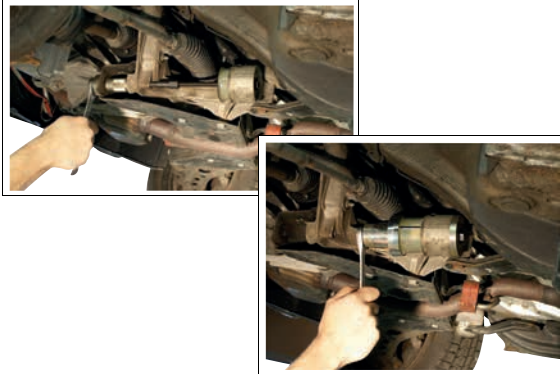


## KL-0039-1935

### Thrust Piece

This tool is necessary for pressing out drive shafts. It is used in conjunction with the **KL-0174-.. Puller Series**, the **KL-0040-2500** hydraulic cylinder and the **KL-0039-1930** pressure spindle with pin Ø 20mm.





## KL-0214-16

Pulling Device for Silentbloc,  
with Mechanical Drive, Audi/Seat/Škoda/VW

**Suitable for VW Polo (9N); Seat Ibiza IV, Cordoba (2002 onwards); Škoda Fabia, Roomster and Audi A2, front axle bracket wishbone mount.**

The pulling device **KL-0214-16** enables the quick and safe removal and installation of silentblocs in the bracket to be performed directly on the vehicle.

### Technical Data:

Weight:	2.8kg
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### Scope of Delivery: KL-0214-16 Pulling Device for Silentbloc, with Mechanical Drive

Part No.	Description	Qty
KL-0214-1601	Retaining Adaptor for Mechanical Spindle	1
KL-0214-1602	Pull Spindle, M10x1.25	1
KL-0214-1603	Spacer	1
KL-0214-1604	Pull Spindle Extension, M10x1.25	1
KL-0214-1605	Shoulder Nut, M10x1.25	1
KL-0214-1606	Pressure Piece (extraction)	1
KL-0214-1607	Pressure Piece (insertion)	1
KL-0214-1608	Centring Ring	1

### Accessories (on demand):

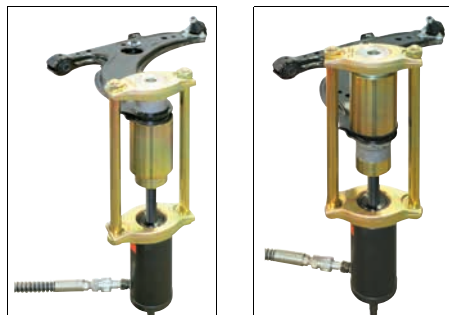
**1993 U-20** CODE:1436686 - Reversible ratchet



**7 R - Combination Ratchet Spanner**



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## KL-0214-17

Press Tool Set with Hydr. Cyl.,  
Golf IV Front Axle Wishbone

**Suitable for VW Golf III and IV, Bora, Vento, New Beetle, Caddy II; Audi A3, TT, TT Roadster; Seat Leon, Toledo II and III; Škoda Octavia**

Used in conjunction with a hydraulic pump such as **KL-0215-35 M25**, the press tool set **KL-0214-17** enables the quick, professional and safe removal and installation of silentblocs on the front axle.

This set enables even severely corroded silentblocs to be extracted and replaced within just a few minutes.

The possibility to easily upgrade the tool set with parts of the **KL-0039-... Series**, such as pressure-/support sleeves, allows for a wide range of applications.

### Scope of Delivery:

#### KL-0214-17 Press Tool Set with Hydr. Cyl., Golf IV Front Axle Wishbone

Part No.	Description	Qty
KL-0214-170	Press Tool Set without Hydr. Cyl., Golf IV Front Axle Wishbone	1
KL-0040-2500	Hydraulic Cylinder 17t	1

### Scope of Delivery:

#### KL-0214-170 Press Tool Set without Hydr. Cyl., Golf IV Front Axle Wwishbone

Part No.	Description	Qty
KL-0214-171	Sleeve set Golf IV	1
KL-0039-1930	Pressure spindle M20x350mm with O-ring	1
KL-0039-1002	Retaining adaptor for clamping nut and pressure spindle with O-Ring	1
KL-0039-1140	Press frame (short)	1

### Scope of Delivery:

#### KL-0214-171 Sleeve Set, VW-Audi/Seat/Škoda

Part No.	Description	Qty
KL-0214-1701	Pressure Ring	1
KL-0039-1780	Pressure-/Support sleeve long Ø 80mm	1

## KL-0214-189

### Pulling Device for Silentbloc, with Mechanical Drive, VW Golf V, Passat

Suitable for the silentblocs found on the front axle wishbone of: **VW Golf (2004 onwards), Passat (2006 onwards), EOS (2006 onwards), Scirocco (2009 onwards), Tiguan (2008 onwards) and (Touran 2003 onwards).**

Allows for the quick and safe removal and installation of the specified silentblocs without the need for removing the wishbone from the vehicle. The possibility to easily upgrade the pulling device with parts of the **KL-0039-... Series** allows for a wide range or applications. For example, the tool can also be used for changing suspension ball joints etc.

#### Scope of Delivery: KL-0214-189 Pulling Device for Silentbloc

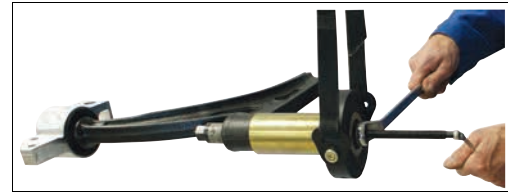
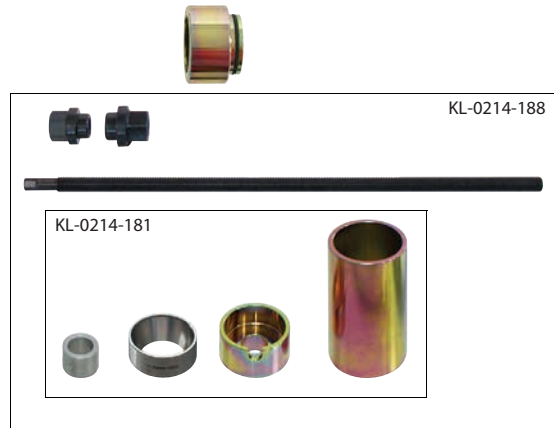
Part No.	Description	Qty
<b>KL-0214-188</b>	<b>Set of Sleeves with Spindle and Nuts, VW Golf V, Passat</b>	<b>1</b>
KL-0039-1011	Retaining Adaptor for Mechanical Spindle	1

#### Scope of Delivery: KL-0214-188 Set of Sleeves with Spindle and Nuts

Part No.	Description	Qty
<b>KL-0214-181</b>	<b>Set of Sleeves, VW Golf V, Passat</b>	<b>1</b>
KL-0039-2012	Pull Spindle, M12, with Nuts	1
KL-0014-0030	Molybdenum Disulphide Paste, 50g	1

#### Scope of Delivery: KL-0214-181 Set of Sleeves, VW Golf V, Passat, Front Axle

Part No.	Description	Qty
KL-0214-1801	Support Sleeve, short, Ø 56mm	1
KL-0214-1802	Conical Sleeve	1
KL-0039-1330	Centring Ring, Ø 30mm	1
KL-0039-1758	Pressure/Support sleeve, long, Ø 58mm	1



#### Accessories (on demand):

**7 R - Combination Ratchet Spanner**



**1 B - Combination Spanner UD-Profile**



## KL-0214-18

### Pulling Device for Silentbloc, with Hydraulic Cylinder; VW Golf V, Passat, Front Axle

Suitable for the silentblocs found at the front axle wishbone of: **VW Golf (2004 onwards), Passat (2006 onwards), EOS (2006 onwards), Scirocco (2009 onwards), Tiguan (2008 onwards), Touran (2003 onwards)**

Allows for the quick and professional removal and replacement of the specified silentblocs. The possibility to easily upgrade the pulling device with parts of the **KL-0039-... Series** allows for a wide range of applications. The tool can, for example, also be used for changing suspension ball joints etc.

#### Scope of Delivery: KL-0214-18 Pulling Device for Silentbloc, with Hydr. Cyl.

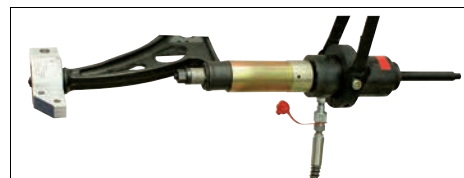
Part No.	Description	Qty
<b>KL-0214-180</b>	<b>Pulling Device for Silentbloc without Hydraulic Cylinder</b>	<b>1</b>
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	1
KL-0040-2500	Hydraulic Cylinder, 17t	1

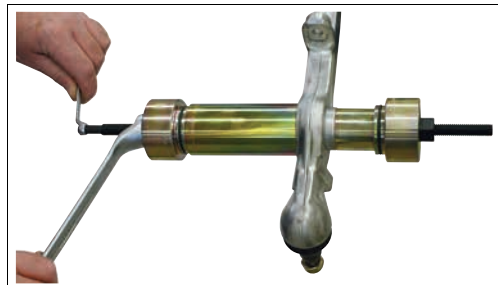
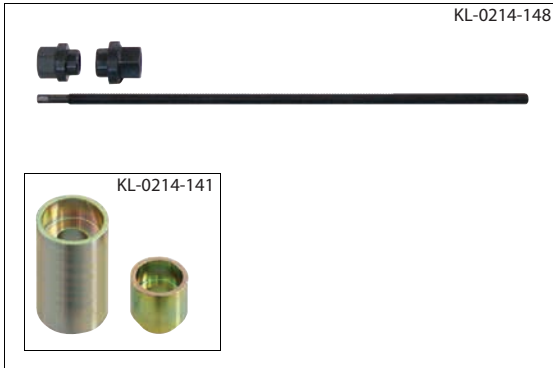
#### Scope of Delivery: KL-0214-180 Pulling Device for Silentbloc, without Hydr. Cyl.

Part No.	Description	Qty
<b>KL-0214-181</b>	<b>Set of Sleeves, VW Golf V, Passat, Front Axle</b>	<b>1</b>
KL-0039-1912	Pull Spindle, M12, with Nut	1

#### Scope of Delivery: KL-0214-181 Set of Sleeves, VW Golf V, Passat, Front Axle

Part No.	Description	Qty
KL-0214-1801	Support Sleeve, short, Ø 56mm	1
KL-0214-1802	Conical Sleeve	1
KL-0039-1330	Centring Ring, Ø 30mm	1
KL-0039-1758	Pressure/Support sleeve, long, Ø 58mm	1





## KL-0214-149

### Pulling Device (Mechanical Drive), Audi/Škoda/VW, Front Axle

Suitable for silentblocs and joint bushes with bearing Ø of 40mm as found on the suspension strut mount at the front axle wishbone of Audi A4, A6, A8, Škoda Superb and VW Passat.

Enables the quick and safe removal and replacement of the silentblocs on the suspension strut mount without the need to remove the wishbone from the vehicle. Universal use of the pulling device - thanks to the possibility to complement the tool set with other parts of the **KL-0039-.. Series**. It can, for example, also be used for changing suspension ball joints etc.

#### Technical Data:

Weight:	2.7kg
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#### Scope of Delivery:

##### KL-0214-149 Pulling Device (Mechanical Drive), Audi/Škoda/VW, Front Axle

Part No.	Description	Qty
KL-0214-148	Sleeve Set with Spindle and Nuts, Audi/Škoda/VW, Front Axle	1
KL-0039-1011	Retaining Adaptor for Mechanical Spindle	2

#### Scope of Delivery:

##### KL-0214-148 Sleeve Set with Spindle and Nuts, Audi/Škoda/VW, Front Axle

Part No.	Description	Qty
KL-0214-141	Set of Sleeves, Audi/Škoda/VW, Front Axle	1
KL-0039-2012	Pull Spindle, M12, with Nuts	1
KL-0014-0030	Molybdenum Disulphide Paste, 50g	1

#### Scope of Delivery:

##### KL-0214-141 Set of Sleeves, Audi/Škoda/VW, Front Axle

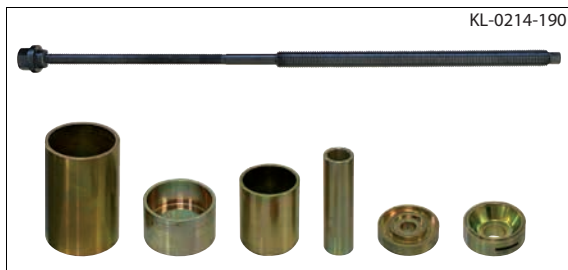
Part No.	Description	Qty
KL-0039-1640	Pressure/Support Sleeve, short, Ø 40mm	1
KL-0039-1750	Pressure/Support Sleeve, long, Ø 50mm	1

#### Accessories (on demand):

7 R - Combination Ratchet Spanner



1 B - Combination Spanner UD-Profil



## KL-0214-19

### Pulling Device for Silentbloc with Hydraulic Cylinder, VW T5, Front Axle

Suitable for the two silentblocs (Ø 40.3 and 60mm) at the front axle wishbone on VW T5 vehicles.

Designed for the quick and safe removal and replacement of the two silentblocs on the specified wishbones. The possibility to easily upgrade the pulling device with parts of the **KL-0039-.. Series** allows for virtually universal applications. For example, the tool can also be used for changing suspension ball joints etc.

#### Scope of Delivery:

##### KL-0214-19 Pulling Device for Silentbloc with Hydr. Cyl., VW T5, Front Axle

Part No.	Description	Qty
KL-0214-190	Pulling Device for Silentbloc without Hydraulic Cylinder, VW T5	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0040-2500	Hydraulic Cylinder, 17t	1

#### Scope of Delivery:

##### KL-0214-190 Pulling Device for Silentbloc, without Hydraulic Cylinder, VW T5

Part No.	Description	Qty
KL-0214-1901	Pressure Piece	1
KL-0214-1902	Support Sleeve (removal)	1
KL-0214-1903	Pressure Piece (installation)	1
KL-0039-1730	Pressure-/Support Sleeve, long, Ø 30mm	1
KL-0039-1772	Pressure-/Support Sleeve, long, Ø 72mm	1
KL-0039-1912	Pull Spindle, M12, with Nut	1

## KL-0214-20

### Pulling Device with Hydraulic Cylinder, VW Touareg

Designed for suspension strut mount silentblocs as found on VW Touareg front axle wishbones (with solid silentbloc for bore Ø of 46mm).

Enables the quick and safe removal and replacement of suspension strut mount silentblocs without the need for removing the wishbone from the vehicle.

**Scope of Delivery:**

**KL-0214-20 Pulling Device with Hydraulic Cylinder, VW Touareg**

Part No.	Description	Qty
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0040-2552	Adaptor, M42x2 to Ø 30mm	1
<b>KL-0214-200</b>	<b>Pulling Device without Hydraulic Cylinder</b>	<b>1</b>

**Scope of Delivery:**

**KL-0214-200 Pulling Device without Hydraulic Cylinder, VW Touareg**

Part No.	Description	Qty
KL-0040-2543-5	Pull Spindle, M14 (Length 550mm)	1
KL-0040-2543-2	Shoulder Nut, M14	1
KL-0214-2005	Support Sleeve	1
KL-0214-2006	Support Sleeve	1
KL-0214-2007	Pressure Piece	1



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## KL-0214-21

### Pulling Device with Hydraulic Cylinder, VW Touareg

Designed for suspension strut mount silentblocs as found on VW Touareg front axle wishbones (split- or solid-type silentbloc, for bore Ø of 46mm).

Enables the quick and safe removal and replacement of suspension strut mount silentblocs without the need for removing the wishbone from the vehicle.

**Scope of Delivery:**

**KL-0214-21 Pulling Device with Hydraulic Cylinder, VW Touareg**

Part No.	Description	Qty
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0040-2552	Adaptor, M42x2 to Ø 30mm	1
<b>KL-0214-210</b>	<b>Pulling Device without Hydraulic Cylinder</b>	<b>1</b>

**Scope of Delivery:**

**KL-0214-210 Pulling Device without Hydraulic Cylinder, VW Touareg**

Part No.	Description	Qty
KL-0040-2543-5	Pull Spindle, M14 (Length 550mm)	1
KL-0040-2543-2	Shoulder Nut, M14	1
KL-0214-2001	Conical Sleeve, Ø 46mm	1
KL-0214-2002	Spring-Loaded Pressure Piece, Ø 46mm	1
KL-0214-2003	Centring Ring, Ø 46mm	1
KL-0214-2004	Centring Ring, Ø 46mm	1
KL-0214-2005	Support Sleeve	1
KL-0214-2006	Support Sleeve	1
KL-0214-2007	Pressure Piece	1





## KL-0214-22

### Pulling Device with 17t Hydraulic Cylinder, for Double-Type Silentblocs

**Application:**

- Audi A3 (8P1), 05/2003 onwards;**
- Audi TT (8J3, 8J9) from 08/2006 to 06/2010;**
- Seat Altea (5P5, 5P5, 5P8), 03/2004 onwards;**
- Seat Leon (1P1), 05/2005 onwards;**
- Seat Toledo III (5P2) from 04/2004 to 05/2009;**
- Škoda Octavia (1Z3, 1Z5) from 02/2004 to 12/2010;**
- VW Caddy III (2KA, 2KB, 2KH, 2KJ, 2CA, 2CB, 2CH, 2CJ) from 04/2004 to 08/2010;**
- VW EOS (1F7, 1F8), 06/2006 onwards;**
- VW Golf Plus (5M1, 521), 01/2005 onwards;**
- VW Golf V (1K1, 1K5) from 10/2003 to 2009;**
- VW Golf VI (5K1, AJ5), 10/2008 onwards;**
- VW Jetta III (1K2) from 08/2005 to 10/2010;**
- VW Touran (1T1, 1T2, 1T3), 08/2003 onwards;**
- VW Passat (3C2, 3C5,) from 03/2005 to 06/2010;**
- VW Passat (363, 365), 08/2010 onwards;**
- VW Scirocco (137), 05/2008 onwards;**
- VW Tiguan 5N, 09/2007 onwards.**

The **KL-0214-22** pulling device allows the quick and safe removal and installation of assembly carrier double-type silentblocs to be performed in situ on the vehicle. Loosening or removing the assembly carrier from the vehicle as well as follow-up wheel alignments are not necessary.

**Advantages:**

- Substantial time and cost savings.
- Eliminates the need for releasing and removing the assembly carrier from vehicle.
- Eliminates the need for wheel alignment.
- All components are individually available as spare parts.

**Scope of Delivery:**

**KL-0214-22 Pulling Device with 17t Hydr. Cyl., for Double-Type Silentblocs**

Part No.	Description	Qty
KL-0214-220	<b>Pulling Device for Double-Type Silentbloc, without Hydr. Cyl.</b>	1
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0039-1003	Retaining Adaptor for Hydraulic Cylinder	1

**Scope of Delivery:**

**KL-0214-220 Pulling Device without Hydr. Cyl., for Double-Type Silentbloc**

Part No.	Description	Qty
KL-0214-221	<b>Pulling Device without Drive, for Double-Type Silentbloc</b>	1
KL-0039-1912-1	Pull Spindle, M12	1
KL-0039-1912-3	Shoulder Nut, M12 (flat), waf 19mm	1

**Scope of Delivery:**

**KL-0214-221 Pulling Device for Double-Type Silentbloc, without Drive**

Part No.	Description	Qty.
KL-0214-2201	Pressure Piece, Ø 89,5mm	1
KL-0214-2202	Spacer Ring, Ø 30mm	1
KL-0214-2203	Setting Plate	1
KL-0214-2204	Conical Sleeve, Ø 90mm	1
KL-0214-2205	Support Sleeve, Ø 92,7mm	1
KL-0214-2207	Clamping Device	1
KL-0214-2206	Clamp with Screw	1



## KL-0220-10 K

### Fixing Tool Kit, VW Assembly Carrier

Suitable for assembly carriers/subframes found on VW-Audi, Seat and Škoda. For example, fitted to Audi A3 (8P), A4 (8E, 8H), TT (8J); VW EOS (1F), Fox (5Z), Golf Plus (1K), Golf V (1K), Jetta (1K), Passat (3C), Passat CC (357), Polo (9N), Scirocco (137), T5 (7J, 7H, 7E, 7F), Touareg (7C), Touran (1T, 9R); Seat Alhambra (71), Altea (5P), AlteaXL (5P), Ibiza (6J), Ibiza / Córdoba (6L), Leon (1P), León (5F), Toledo (5P), Toledo (KG3).

The tools allow for the professional installation/adjustment of assembly carriers (with fastening screws having an M12x1.5 or M14x1.5 thread). Necessary after maintenance work/repairs where the assembly carrier has been loosened/released, for example, after the replacement of silentblochs, wishbone etc.

#### Technical Data:

Max. tightening torque:	20Nm
Fixing bolt thread (KL-0220-101):	M12x1.5
Fixing bolt thread (KL-0220-102):	M14x1.5
Length:	M14x1.5
Drive:	6mm (hex socket)

#### Scope of Delivery:

##### KL-0220-10 K Fixing Tool Kit, VW Assembly Carrier

Part No.	Description	Qty
KL-0220-101	Fixing Bolt, M12x1.5	4
KL-0220-102	Fixing Bolt, M14x1.5	4
KL-0220-1090	Plastic Storage Case	1



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## KL-0043-861 A

### Pressing Device with Hydraulic Cylinder

Suitable for VW T4 front axle upper ball joint.

The KL-0043-861 A pressing device enables the specified upper ball joints to be removed and installed within just 30 minutes without the need for removing the upper wishbone from the vehicle.

#### Advantages:

- Substantial time savings (2-3 hours).
- Simple and precise use of the tool.
- All components are available individually as spare parts.

#### Scope of Delivery:

##### KL-0043-861 A Pressing Device with Hydraulic Cylinder, VW T4

Part No:	Description	Qty
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0039-1930	Pressure Spindle, M20x350mm, with O-Ring	1
KL-0043-860 A	Pressing Device without Hydraulic Cylinder, VW T4	1

#### Scope of Delivery:

##### KL-0043-860 A Pressing Device without Hydraulic Cylinder, VW T4

Part No.	Description	Qty
KL-0043-8610	Press Frame	1
KL-0043-8691 A	Sleeve Set, VW T4	1

#### Scope of Delivery:

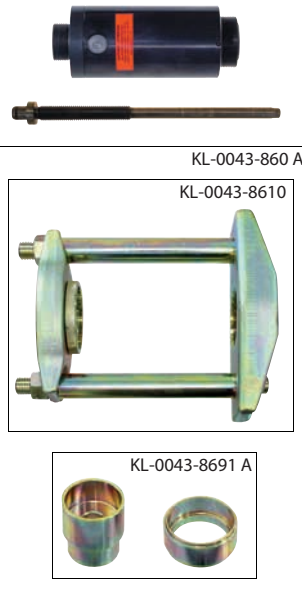
##### KL-0043-8610 Press Frame

Part No.	Description	Qty
KL-0039-1144	Base Plate, 2¼"-14 UNS	1
KL-0039-1144 V	Base Plate, 2¼"-14 UNS (reinforced design)	1
KL-0215-4004	Press Frame Rod	2
KL-0049-3004	Hex Nut, M18	4
KL-0043-8601	Adaptor, 2¼"-14 UNS to Ø 60mm	1

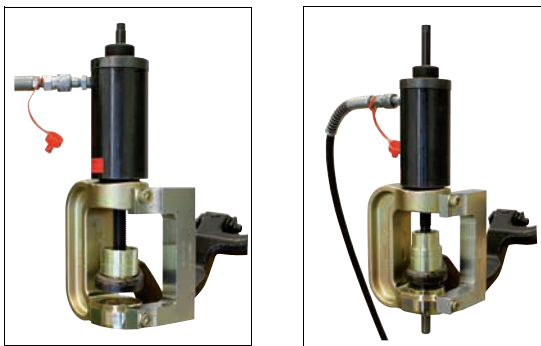
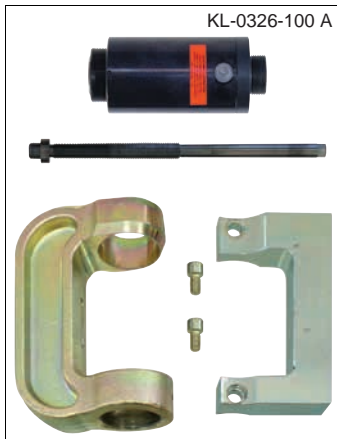
#### Scope of Delivery:

##### KL-0043-8691 A Sleeve Set, VW T4

Part No.	Description	Qty
KL-0043-8661	Lower Sleeve, VW T4	1
KL-0043-8662 A	Upper Sleeve, VW T4	1







## KL-0326-15

### Hydraulic Press Tool Set, VW T4

**Suitable for the front axle of VW T4, upper ball joint.**

The **KL-0326-15** press tool set enables the upper ball joint to be removed and installed within just 30 minutes, without the need for removing the upper wishbone from the vehicle.

**Advantages:**

- Substantial time savings (2-3 hours)
- Precise and easy to use.
- All components are available individually as spare parts.
- Press frame **KL-0326-1000** is also suitable for use on Mercedes suspension ball joints.

**Scope of Delivery:**

**KL-0326-15 Hydraulic Press Tool Set, VW T4**

Part No.	Description	Qty
KL-0326-100 A	Hydraulic Press Frame	1
KL-0326-151	Sleeve Set, VW T4	1

**Scope of Delivery:**

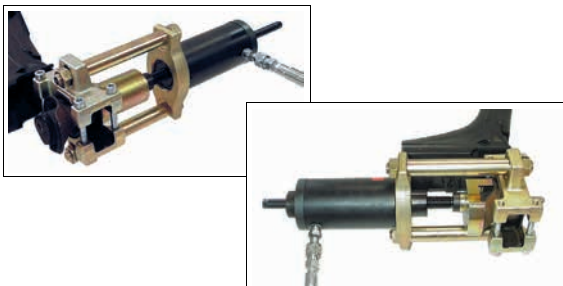
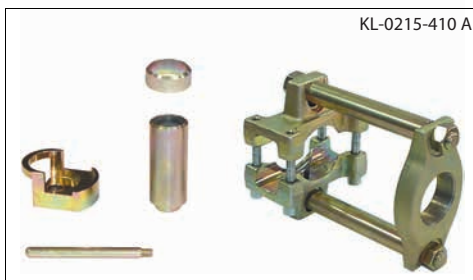
**KL-0326-100 A Hydraulic Press Frame, Mercedes**

Part No.	Description	Qty
KL-0326-1000	Press Frame	1
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0039-1930	Pressure Spindle, M20x350mm, with O-ring	1

**Scope of Delivery:**

**KL-0326-151 Sleeve Set VW T4**

Part No.	Description	Qty
KL-0043-8662 A	Sleeve (upper) VW T4	1
KL-0326-1111	Adaptor Ring 1	1



## KL-0215-41 A

### Press Tool Set with Hydr. Cyl., Golf III

**Suitable for silentbloc Ø 56mm, VW Golf III rear axle.**

The press tool set **KL-0215-41 A** used in conjunction with hydraulic pump **KL-0215-35 M25** or **KL-0215-37 M25** allows for quick, professional and safe removal and installation of the silentblocs at the rear axle. Even heavily corroded silentblocs can be pressed out and replaced within just a few minutes using this tool.

**Scope of Delivery:**

**KL-0215-41 A Press Tool Set with Hydr. Cyl., Golf III**

Part No.	Description	Qty
KL-0215-410 A	Press Tool Set without Drive, Golf III	1
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0039-1930	Pressure Spindle with O-Ring, M20x350mm	1

**Scope of Delivery:**

**KL-0215-410 A Press Tool Set without Drive, Golf III**

Part No.	Description	Qty
KL-0215-411	Frame (complete), Golf III	1
KL-0215-0017 A	Pressure Piece (for insertion), Golf III	1
KL-0215-0026 A	Pressure Piece (for extraction), Golf III	1
KL-0215-0027	Support Ring (for extraction), Golf III	1
KL-0039-1712	Guide Pin (long), 12mm	1

## KL-0215-43

### Press Tool Set, VW-Audi, Rear Axle Trailing Arm

Suitable for Audi A3 (8P), TT (8J); Seat Altea (5P), Leon (1P), Toledo (5P); Škoda Superb (3U), Oktavia (1Z); VW Eos, Golf V, Jetta III, Passat (3C), Tiguan and Touran rear axle trailing arm.

The press tool set **KL-0215-43** enables the professional and accurate removal and replacement of silentblocs on the rear axle trailing arm without the need for removing the latter from the vehicle.

#### Scope of Delivery: KL-0215-43 Press Tool Set with Hydraulic Cylinder

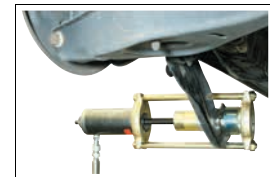
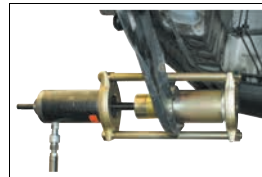
Part No.	Description	Qty
KL-0215-430	Press Tool Set without Hydr. Cyl., VW-Audi Rear Axle Trailing Arm	1
KL-0040-2500	Hydraulic Cylinder, 17t	1

#### Scope of Delivery: KL-0215-430 Press Tool Set without Hydraulic Cylinder

Part No.	Description	Qty
KL-0215-431	Sleeve Set, VW-Audi Rear Axle Trailing Arm	1
KL-0039-1930	Pressure Spindle with O-Ring, M20x350mm	1
KL-0039-1140	Press Frame, short	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1

#### Scope of Delivery: KL-0215-431 Sleeve Set, VW-Audi Rear Axle Trailing Arm

Part No.	Description	Qty
KL-0039-1778	Pressure/Support Sleeve, long, Ø 78mm	1
KL-0039-1678	Pressure/Support Sleeve, short, Ø 78mm	1
KL-0215-4311	Thrust Piece, Golf V	1



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## KL-0215-52 A

### Pulling Device for Silentbloc, VW-Audi, Rear Axle

Suitable for Audi A3; VW Bora, Beetle, Golf IV; Seat Leon, Toledo from 2001 onwards and Škoda Oktavia from 1997 onwards, rear axle.

For the quick, easy removal of the rubber-to-metal silentblocs (**KL-0215-522** with **KL-0040-2500** and **KL-0040-2552**). Can also be used for removing and installing the rubber-to-plastic silentblocs (**KL-0215-520** with **KL-0040-2500** and **KL-0040-2552**) at the rear axle.

#### Scope of Delivery: KL-0215-52 A Pulling Device for Silentbloc, with Hydr. Cyl.

Part No.	Description	Qty
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0215-520 A	Pulling Device for Silentbloc, without Hydr. Cyl., Audi A3, VW Golf IV rear axle	1

#### Scope of Delivery: KL-0215-520 A Pulling Device for Silentbloc, without Hydr. Cyl.

Part No.	Description	Qty
KL-0040-2552	Adaptor, M42X2 to Ø 30mm	1
KL-0215-520	Pulling Device for Silentbloc, without Hydraulic Cylinder	1
KL-0215-522	Upgrade Kit for Rubber-to-Metal Silentblocs, without Hydraulic Cylinder	1

#### Scope of Delivery: KL-0215-520 Pulling Device for Silentbloc, without Hydr. Cyl.

Part No.	Description	Qty
KL-0215-521	Pressure-/Support Sleeve Set (only for rubber-to-plastic silentblocs)	1
KL-0040-2542	Pull Spindle, M12, with Nut	1

#### Scope of Delivery: KL-0215-521 Pressure-/Support Sleeve Set, VW-Audi, rear axle

Part No.	Description	Qty
KL-0215-5201	Support Sleeve	1
KL-0215-5202	Clamping jaws (pair) with screws	1
KL-0215-5203	Press piece (removal)	1
KL-0215-5204	Support Sleeve (insertion)	1
KL-0215-5205	Press piece (insertion)	1

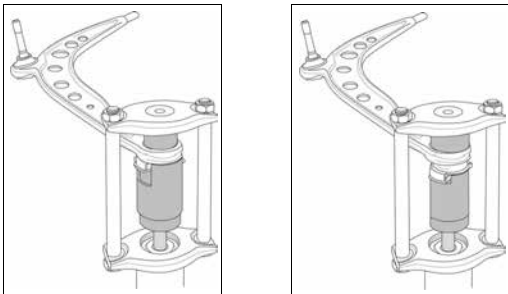
#### Scope of Delivery: KL-0215-522 Upgrade Kit for Rubber-to-Metal Silentblocs

Part No.	Description	Qty
KL-0215-523	Pressure-/Support Sleeve Upgrade Set	1
KL-0040-2512	Pull Spindle, M20	1
KL-0040-3009	Clamping Nut, M20	1

#### Scope of Delivery: KL-0215-523 Pressure-/Support Sleeve Upgrade Set

Part No.	Description	Qty
KL-0043-8569	Pressure-/Support Sleeve, short, Ø 44/36mm	1
KL-0215-5221	Pressure Sleeve (removal)	1
KL-0215-5222	Support Sleeve (removal)	1





## KL-0039-762

### Pressing Device with Hydraulic Cylinder, BMW E36

Designed for the BMW 3 Series (E36), front axle wishbone.

The **KL-0039-762** pressing device enables the quick and trouble-free removal and installation of the specified outer suspension ball joints that are found on the lower wishbone. The removal and replacement of the outer suspension ball joint can also be performed in situ on the vehicle within just a few minutes, with the wishbone in place.

Scope of Delivery:

**KL-0039-762 Pressing Device with Hydraulic Cylinder, BMW E36**

Part No.	Description	Qty
<b>KL-0039-7620</b>	<b>Pressing Device without Hydraulic Cylinder, BMW E36</b>	<b>1</b>
KL-0040-2500	Hydraulic Cylinder (17t)	1

Scope of Delivery:

**KL-0039-7620 Pressing Device without Hydraulic Cylinder, BMW E36**

Part No.	Description	Qty
<b>KL-0039-7623</b>	<b>Sleeve Set, BMW E36</b>	<b>1</b>
KL-0039-1140	Press Frame (lightweight, short)	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1930	Pressure Spindle with O-Ring, M20x350mm	1

Scope of Delivery:

**KL-0039-7623 Sleeve Set, BMW E36**

Part No.	Description	Qty
KL-0043-8288-1	Pressure Sleeve for BMW E36	1
KL-0043-8289-1	Support Sleeve for BMW E36	1
KL-0039-1648	Pressure/Support Sleeve, short, Ø 48mm	1
KL-0039-1658	Pressure/Support Sleeve, short, Ø 58mm	1

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## KL-0515-1

### Pulling Device for Silentbloc, BMW

Suitable for the BMW silentbloc on the rear subframe of E30 (3 Series models 1982-1990), E36 Compact / Z3, E28 (5 Series models 1981-1987), E34 (5 Series models 1988-1995), E32 (7 Series models 1986-1994).

Intended for use with mechanical drive. The tool set **KL-0515-1** enables the quick, professional and safe extraction and insertion of tightly fitting silentblocs in situ on the vehicle. With this tool, the removal of the rear subframe from the vehicle is no longer necessary.

Scope of Delivery: **KL-0515-1 Pulling Device for Silentbloc, BMW**

Part No.	Description	Qty
<b>KL-0515-100</b>	<b>Pulling Device</b>	<b>1</b>
KL-0515-1009	Spindle A	1
KL-0515-1010	Nut, M20	1
KL-0515-1011	Nut, M14	1
KL-0515-1015	Spindle E	1
KL-0035-0012	Axial Bearing	1
KL-0035-0013	Circlip SB42	1
KL-0515-1016	Bearing Insert	1

Scope of Delivery: **KL-0515-100 Pulling Device for Silentbloc without drive BMW**

Part No.	Description	Qty
KL-0515-1001	Bearing Cover	1
KL-0515-1002	Housing	1
KL-0515-1003	Support Ring S1	1
KL-0515-1004	Support Ring S2	1
KL-0515-1005	Support Ring S3	1
KL-0515-1006	Pressure Piece A1	1
KL-0515-1007	Pressure Piece A2	1
KL-0515-1008	Pressure Piece A3	1
KL-0515-1012	Pressure Piece E1	1
KL-0515-1013	Pressure Piece E2	1
KL-0515-1014	Pressure Piece E3	1



## KL-0515-11

### Pulling Device for Silentbloc, BMW

**Suitable for the silentblocs on the rear subframe of BMW E30 (3 Series 1982-1990), E36 Compact / Z3**

Intended for use with mechanical drive. The tool set **KL-0515-11** enables the quick, professional and safe extraction and insertion of tightly fitting silentblocs in situ on the vehicle. Using this tool, the removal of the rear subframe from the vehicle is no longer necessary.

**Scope of Delivery:**

**KL-0515-11 Pulling Device for Silentbloc, BMW**

Part No.	Description	Qty
<b>KL-0515-110</b>	<b>Pulling Device without Drive, for Silentbloc, BMW E30</b>	<b>1</b>
KL-0515-1009	Spindle A	1
KL-0515-1010	Nut, M20	1
KL-0515-1011	Nut, M14	1
KL-0515-1015	Spindle E	1
KL-0035-0012	Axial Bearing	1
KL-0035-0013	Circlip SB42	1
KL-0515-1016	Bearing Insert	1

**Scope of Delivery:**

**KL-0515-110 Pulling Device without Drive, for Silentbloc, BMW**

Part No.	Description	Qty
KL-0515-1001	Bearing Cover	1
KL-0515-1002	Housing	1
KL-0515-1003	Support Ring S1	1
KL-0515-1006	Pressure Piece A1	1
KL-0515-1012	Pressure Piece E1	1



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## KL-0515-2

### Pulling Device with Hydraulic Cylinder, for Silentbloc, BMW E36

**Suitable for BMW E36 (3 Series 1990-1998), rear subframe (except E36 Compact/Z3).**

The **KL-0515-2** pulling device allows for the quick and safe removal and replacement of all those silentblocs (also differential silentblocs) that are found on the specified rear subframes.

Using this tool, the removal of the rear subframe from the vehicle is not necessary.

**Advantages:**

- Substantial time savings can be achieved as there is no need for removing the subframe.
- Accurate removal and insertion of the silentblocs - thanks to the **KL-0040-2500** hydraulic cylinder that comes with the tool kit.

**Scope of Delivery:**

**KL-0515-2 Pulling Device with Hydr. Cylinder, for Silentbloc, BMW E36**

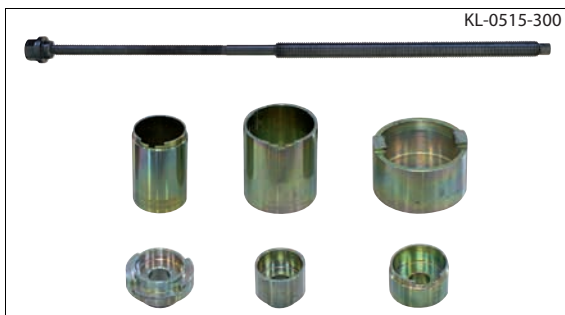
Part No.	Description	Qty
<b>KL-0515-200</b>	<b>Pulling Device without Hydr. Cylinder, for Silentbloc</b>	<b>1</b>
KL-0040-2500	Hydraulic Cylinder, 17t	1

**Scope of Delivery:**

**KL-0515-200 Pulling Device without Hydr. Cylinder, for Silentbloc, BMW E36**

Part No.	Description	Qty
KL-0515-2001	Support Sleeve	1
KL-0515-2002	Pressure Piece	1
KL-0515-2003	Support Sleeve	1
KL-0515-2004	Pressure Piece	1
KL-0515-2005	Support Sleeve	1
KL-0515-2006	Support Sleeve	1
KL-0515-2007	Pressure Piece	1
KL-0515-2008	Support Sleeve	1
KL-0515-2009	Pressure Piece	1
KL-0039-1912-1	Pull Spindle, M12	1
KL-0350-2007	Hex Shoulder Nut, M12	1





## KL-0515-3

### Pulling Device with Hydraulic Cylinder, BMW, Rear Axle

**Suitable for BMW E36, E46 (3 Series) Limousine, Touring and Convertible rear axle trailing arm (not suitable for E36 Compact / Z3).**

Silentblocs and joint bushes on the rear axle trailing arm can be extracted and inserted within just a few minutes by using the pulling device **KL-0515-3**. Even corroded/seized silentblocs are no longer an issue. The extraction and insertion of the aluminium silentblocs of the earlier version "I" (E36) as well as of the latest split steel version "II" (E36, E46) are possible. The work can be carried out without having to remove the rear axle trailing arm from the vehicle.

**Scope of Delivery:**

**KL-0515-3 Pulling Device with Hydraulic Cylinder, BMW Rear Axle**

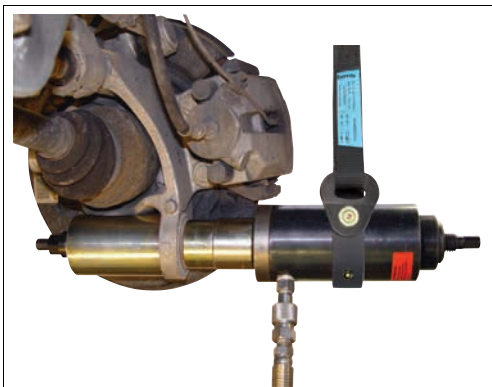
Part No.	Description	Qty
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	1
KL-0515-300	Pulling Device without Hydraulic Cylinder, BMW Rear Axle	1

**Scope of Delivery:**

**KL-0515-300 Pulling Device without Hydraulic Cylinder for BMW Rear Axle**

Part No.	Description	Qty
KL-0515-3001	Support Sleeve ("earlier version" silentbloc)	1
KL-0515-3002	Support Sleeve ("latest version" silentbloc)	1
KL-0515-3003	Pressure Piece	1
KL-0515-3004	Support Sleeve	1
KL-0515-3005	Pressure Piece	1
KL-0515-3006	Support Sleeve (insertion)	1
KL-0040-2542	Pull Spindle, M12, with Nut	1

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## KL-0515-4 A

### Pulling Device with Hydraulic Cylinder, BMW, Rear Axle

**Suitable for BMW rear axle joint bushes; e.g. as installed in BMW 5 Series (E39; E60, E61), X5 (E53) and 7 Series (E38).**

Used in conjunction with a hydraulic pump, the **KL-0515-4 A** pulling device allows for the easy, professional and trouble-free extraction and insertion of the lower joint bush on the wheel bearing housing without having to remove the latter from the vehicle.

**Advantages:**

- Substantial time savings of approx 1-2 hours.
- Tool is easy to use.
- The **KL-0040-2500** hydraulic cylinder (17t) can universally be used on other GEDORE Automotive tools.

**Scope of Delivery:**

**KL-0515-4 A Pulling Device with Hydraulic Cylinder, BMW Rear Axle**

Part No.	Description	Qty
KL-0515-400 A	Pulling Device without Hydraulic Cylinder, BMW Rear Axle	1
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	1

**Scope of Delivery:**

**KL-0515-400 A Pulling Device without Hydraulic Cylinder, BMW Rear Axle**

Part No.	Description	Qty
KL-0515-4001 B	Support Sleeve (removal)	1
KL-0515-4002 A	Pressure Piece (removal)	1
KL-0515-4003 B	Support Sleeve (installation)	1
KL-0515-4004 A	Pressure Sleeve (installation)	1
KL-0039-1914-5	Pull Spindle, M14 (short design)	1
KL-0039-1914-2	Shoulder Nut, M14	1

## KL-0515-50

### Pulling Device with Hydraulic Cylinder, BMW E39

**Suitable for BMW E39 (5 Series) Limousine and Touring rear subframe.**

The pulling device **KL-0515-50** enables the quick and safe removal and installation of the silentblochs at the rear subframe. Using this tool, the removal of the rear subframe from the vehicle is no longer necessary.

**Scope of Delivery:**

**KL-0515-50 Pulling Device with Hydraulic Cylinder, BMW E39**

Part No.	Description	Qty
<b>KL-0515-500</b>	<b>Pulling Device without Hydraulic Cylinder, BMW E39</b>	<b>1</b>
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0040-2590	Safety Belt for Hydr. Cylinder KL-0040-2500	1

**Scope of Delivery:**

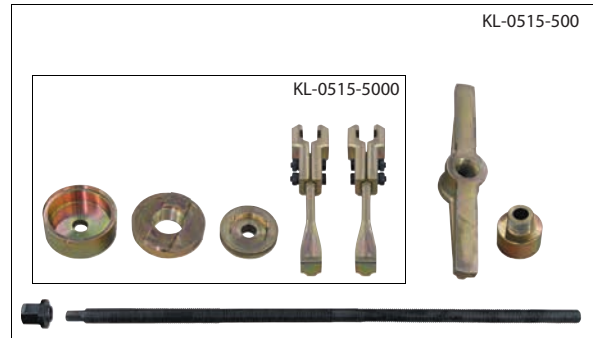
**KL-0515-500 Pulling Device without Hydraulic Cylinder, BMW E39**

Part No.	Description	Qty
KL-0041-3801	Bridge	1
KL-0515-5002	Adaptor, M42x2 to M34x1.5	1
KL-0040-2545-1	Pull Spindle, M18	1
KL-0040-2545-3	Shoulder Nut, M18	1
<b>KL-0515-5000</b>	<b>Hook/Pressure Piece Set</b>	<b>1</b>

**Scope of Delivery:**

**KL-0515-5000 Hook/Pressure Piece Set**

Part No.	Description	Qty
KL-0515-5003	Hook (1 pc) with clamp	2
KL-0515-5004	Pressure Piece (extraction)	1
KL-0515-5005	Pressure Piece (insertion)	1
KL-0515-5006	Support Sleeve (insertion)	1



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## KL-0515-501

### Upgrade Kit for BMW X5

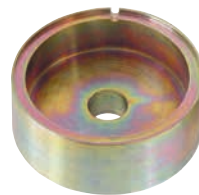
**Specially designed for BMW X5.**

Used in conjunction with the pulling device **KL-0515-50**, the kit allows for the removal and replacement of the silentblochs at the rear subframe.

**Scope of Delivery:**

**KL-0515-501 Upgrade Kit for BMW X5**

Part No.	Description	Qty
KL-0515-5011	Pressure Piece (extraction)	1
KL-0515-5012	Support Sleeve (insertion)	1



## KL-0326-10 A

### Hydraulic Press Tool Set, Mercedes

**Suitable for Mercedes W201 (190 Series), W124 (E-Class), W211 (E-Class), W219 (CLS), W220 (S-Class), W230 (SL) front axle, and W163 (M-Class) front and rear axle.**

The **KL-0326-10 A** hydraulic press tool set is designed to press in/press out the suspension ball joints found on the lower wishbone. With some applications, the removal and installation of the suspension ball joint can also be carried out in situ on the vehicle, without having to dismantle the wishbone.

#### Scope of Delivery:

##### KL-0326-10 A Hydraulic Press Tool Set, Mercedes

Part No.	Description	Qty
KL-0326-100 A	Hydraulic Press Frame	1
KL-0326-112 A	Set of Sleeves (W163/W211/W219/W220/W230)	1
KL-0326-1314	Pressure/Support Sleeve, Ø 56/48mm (installation W124, W201)	1
KL-0326-1311	Pressure Ring 3 (removal W124, W201)	1

#### Scope of Delivery:

##### KL-0326-100 A Hydraulic Press Frame, Mercedes

Part No.	Description	Qty
KL-0326-1000	Press Frame	1
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0039-1930	Pressure Spindle, M20x350mm, with O-ring	1

#### Scope of Delivery:

##### KL-0326-1000 Press Frame

Part No.	Description	Qty
KL-0326-1001	Press Frame	1
KL-0326-1002 B	Stabilising Bracket	1
KL-0326-1003 B	Cheese Head Screw, M12x20mm	2

#### Scope of Delivery:

##### KL-0326-101 A Hydraulic Press Tool Set without Drive, Suspension Ball Joint

Part No.	Description	Qty
KL-0326-1000	Press Frame (without drive and sleeves)	1
KL-0326-112 A	Set of Sleeves (W163/W211/W219/W220/W230)	1
KL-0326-1314	Pressure/Support Sleeve, Ø 56/48mm (installation W124/W201)	1
KL-0326-1311	Pressure Ring (removal W124/W201)	1

#### Scope of Delivery:

##### KL-0326-102 A Hydraulic Press Tool Set without Drive, Suspension Ball Joint

Part No.	Description	Qty
KL-0326-1000	Press Frame	1
KL-0326-112 A	Set of Sleeves (W163/W211/W219/W220/W230)	1

#### Scope of Delivery:

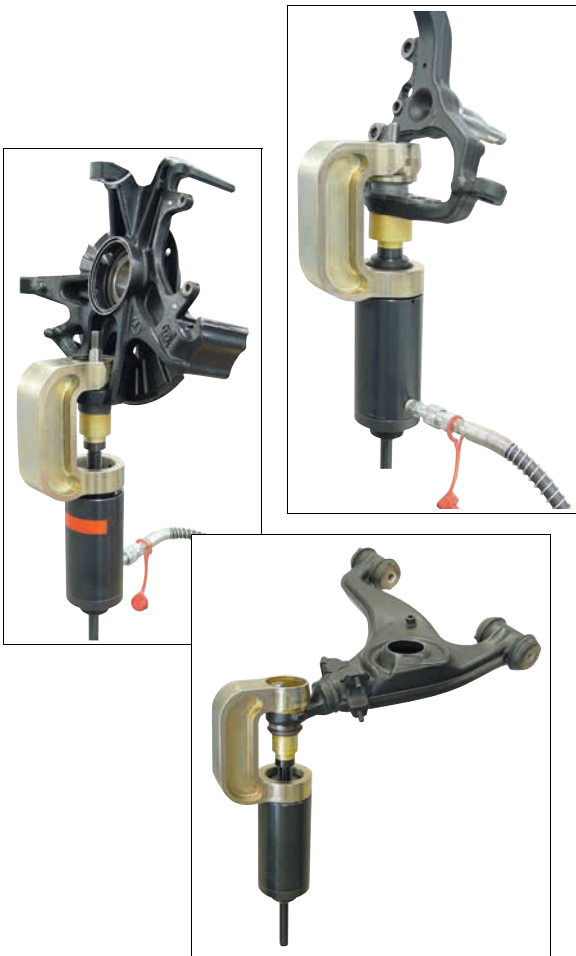
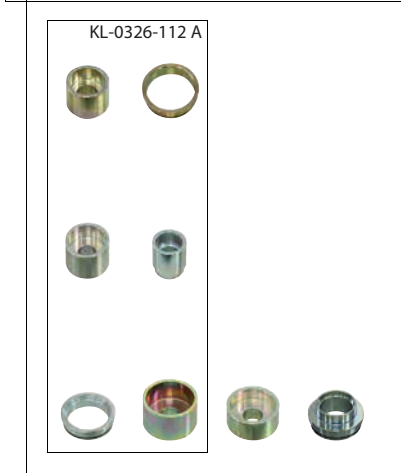
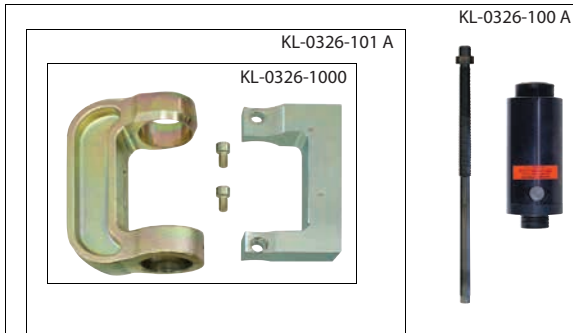
##### KL-0326-112 A Sleeve Set, Mercedes W163/W211/W219/W220/W230

Part No.	Description	Qty
KL-0326-1111	Support Ring 1, with O-Ring	1
KL-0326-1211	Support Ring 4, with O-Ring	1
KL-0039-1634	Pressure/Support Sleeve, short, Ø 34mm	1
KL-0039-1642	Pressure/Support Sleeve, short, Ø 42mm	1
KL-0039-1650	Pressure/Support Sleeve, short, Ø 50mm	1
KL-0326-1313 A	Pressure/Support Sleeve, Ø 60/52mm	1

#### Overview table

Applications:	Hydraulic Press Tool Set	consisting of	
		Hydraulic Press Frame	Sleeve Set
Mercedes W163 (M-Class)	KL-0326-11 A	KL-0326-100 A	KL-0326-111 A
Mercedes W211 (E-Class), W219 (CLS), W220 (S-Class) and W230 (SL)	KL-0326-12 A	KL-0326-100 A	KL-0326-121 A
Mercedes W124, W201 (190er)	KL-0326-13 A	KL-0326-100 A	KL-0326-131 A
Mercedes W211 (E-Class 2002 onwards), W219 (CLS), W220 (S-Class) and W230 (SL) front axle	KL-0326-14	KL-0326-100 A	KL-0326-141

For more Information see Chapter 2, Page 53 to 54.



# KL-0326-160 K

## Hydraulic Press Tool Set, without Hydraulic Cylinder, in a Plastic Storage Case

**Applicable to:** Mercedes W201 (190 Series), W124 (E-Class), W211 (E-Class), W219 (CLS), W220 (S-Class), W230 (SL) and VW T4 (suspension ball joints, front axle) and Mercedes W163 (M-Class) (suspension ball joints, front and rear axle), Mercedes W211 (E-Class), W219 (CLS), W220 (S-Class), W230 (SL) (upper ball joint, front axle).

The **KL-0326-160 K** hydraulic press tool set is designed to be used in conjunction with a hydraulic pump such as the **KL-0215-35 M25** and hydraulic cylinder **KL-0040-2500**, thus enabling lower and upper ball joints to be pressed into and pressed out of the lower wishbone quickly and without any trouble. Removal and installation of the suspension ball joints can sometimes also be carried out in situ on the vehicle within just a few minutes without the need for dismantling the wishbone.

**Advantages:**

- Enables the quick, easy and professional removal and installation of suspension ball joints.
- This tool set of the GEDORE Automotive Modular System can be further enhanced with additional tools - making it suitable for a wide range of applications.
- All components are available individually as spare parts.



KL-0326-160 E

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**Scope of Delivery:**

**KL-0326-160 K Hydraulic Press Tool Set, without Hydraulic Cylinder**

Part No.	Description	Qty
KL-0326-160 E	Hydraulic Press Tool Set, without Hydr. Cylinder, in a Foam Insert	1
KL-4999-1393	Plastic Storage Case	1

**Scope of Delivery:**

**KL-0326-160 E Hydraulic Press Tool Set, without Hydr. Cylinder, in a Foam Insert**

Part No.	Description	Qty
KL-0326-160	Hydraulic Press Tool Set, without Hydraulic Cylinder	1
KL-4999-1319	Foam Insert	1

**Scope of Delivery:**

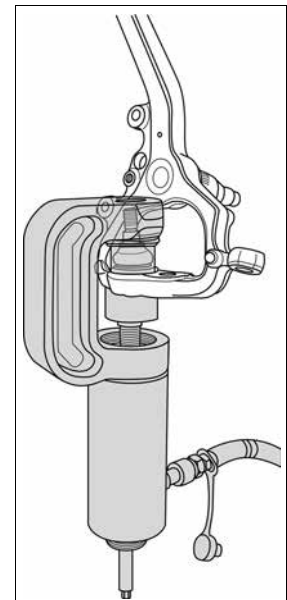
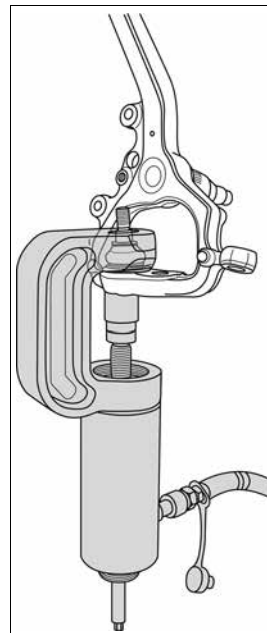
**KL-0326-160 Hydraulic Press Tool Set, without Hydraulic Cylinder**

Part No.	Description	Qty
KL-0326-161	Hydraulic Press Tool Set, without Drive	1
KL-0039-1930	Pressure Spindle, M20x350mm, with O-Ring	1

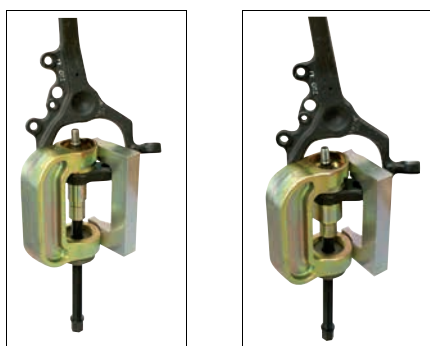
**Scope of Delivery:**

**KL-0326-161 Hydraulic Press Tool Set, without Drive**

Part No.	Description	Qty
KL-0039-1634	Pressure/Support Sleeve, short, Ø 34/26mm	1
KL-0039-1640	Pressure/Support Sleeve, short, Ø 40/32mm	1
KL-0039-1642	Pressure/Support Sleeve, short, Ø 42/34mm	1
KL-0039-1650	Pressure/Support Sleeve, short, Ø 50/42mm	1
KL-0043-8662 A	Sleeve (top), VW T4	1
KL-0326-1000	Press Frame	1
KL-0326-1111	Adaptor Ring 1, with O-Ring	1
KL-0326-1311	Adaptor Ring 3, with O-Ring	1
KL-0326-1312 A	Adaptor Ring 4	1
KL-0326-1313 A	Pressure/Support Sleeve, Ø 60/52mm	1
KL-0326-1314	Pressure/Support Sleeve, Ø 56/48mm	1
KL-0326-1411	Adaptor Ring 5, with O-Ring	1
KL-0350-5102	Pressure Sleeve	1







## KL-0326-108 Mechanical Press Frame

Compatible with the sleeve sets of the KL-0326-... Series.  
A mechanical alternative to KL-0326-100 A.

The press frame comes with a mechanical drive. Used in conjunction with the corresponding sleeve set, it allows the quick and easy removal and installation of suspension ball joints to be carried out in situ on the vehicle without the need for dismantling the wishbone. THE ideal tool for Mercedes vehicles.

**Scope of Delivery: KL-0326-108 Mechanical Press Frame**

Part No.	Description	Qty
KL-0326-1000	Press Frame	1
KL-0174-831	Mechanical Drive Set	1

**Scope of Delivery: KL-0326-1000 Press Frame**

Part No.	Description	Qty
KL-0326-1001	Press Frame	1
KL-0326-1002 B	Stabilising Bracket	1
KL-0326-1003 B	Cheese Head Screw, M12x20mm	2

**Scope of Delivery: KL-0174-831 Mechanical Drive Set**

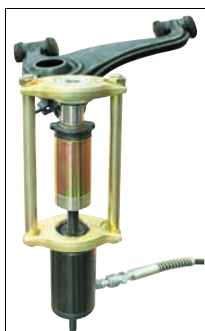
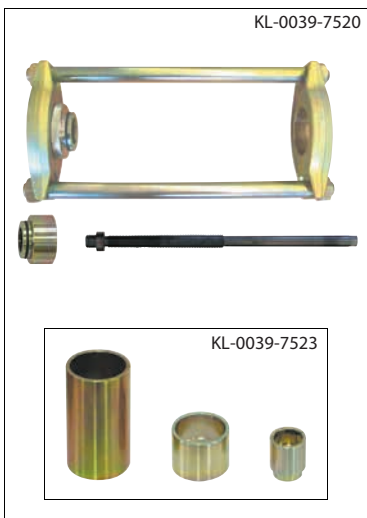
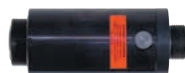
Part No.	Description	Qty
KL-0174-620	Spindle, M20x2x230mm	1
KL-0174-547	Adaptor, 2 1/4"-14 UNS to M20x2	1
KL-0174-853	Thrust Piece for Mechanical Spindle	1

**Accessories (on demand):**

1993 U-20 CODE:1436686 - Reversible ratchet



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## KL-0039-752 Pressing Device with Hydraulic Cylinder, Mercedes 190 Series (W201), W124, W129

Suitable for the Mercedes 190 Series (W201) W124 and W129, suspension ball joint at the front lower wishbone.

Used in conjunction with a hydraulic pump such as KL-0215-35 M25, the KL-0039-752 pressing device enables suspension ball joints to be quickly and easily pressed into/and out of the lower wishbone. Removal and installation of the specified ball joint can be carried out in situ on the vehicle within just a few minutes, without the need for dismantling the wishbone.

**Scope of Delivery:**

**KL-0039-752 Pressing Device with Hydraulic Cylinder**

Part-No.	Description	Qty
KL-0039-7520	Pressing Device without Hydraulic Cylinder, Mercedes	1
KL-0040-2500	Hydraulic Cylinder (17t)	1

**Scope of Delivery:**

**KL-0039-7520 Pressing Device without Hydraulic Cylinder**

Part-No.	Description	Qty
KL-0039-7523	Sleeve Set, Mercedes	1
KL-0039-1140	Press Frame (lightweight, short)	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1930	Pressure Spindle with O-Ring, M20x350	1

**Scope of Delivery:**

**KL-0039-7523 Sleeve Set, Mercedes 190 Series (W201), W124, W129**

Part-No.	Description	Qty
KL-0039-1636	Pressure/Support Sleeve, short, Ø 36mm	1
KL-0039-1658	Pressure/Support Sleeve, short, Ø 58mm	1
KL-0039-1760	Pressure/Support Sleeve, long, Ø 60mm	1

## KL-0039-750 (Pat. e.g. US-Patent 7,020,944) Pressing Device with Hydraulic Cylinder, Mercedes Sprinter/VW LT (2D)

**Designed to change suspension ball joints on Mercedes Sprinter (901-904) models from 1995-2006 and on VW LT (2D) models from 1996-2006.**

Used in conjunction with the hydraulic pump **KL-0215-35 M25** or **KL-0215-37 M25**, the pressing device **KL-0039-750** enables the quick and trouble-free pushing out and pressing in of the suspension ball joints on the lower wishbone. Removal and installation of the ball joints can be performed in situ on the vehicle within a just few minutes, without having to dismantle the wishbone.

**Note:**  
Mercedes Sprinter and VW LT are fitted with two different wishbones with two different suspension ball joints.

**Scope of Delivery:**  
**KL-0039-750 Pressing Device with Hydr. Cyl., Mercedes Sprinter/VW LT (2D)**

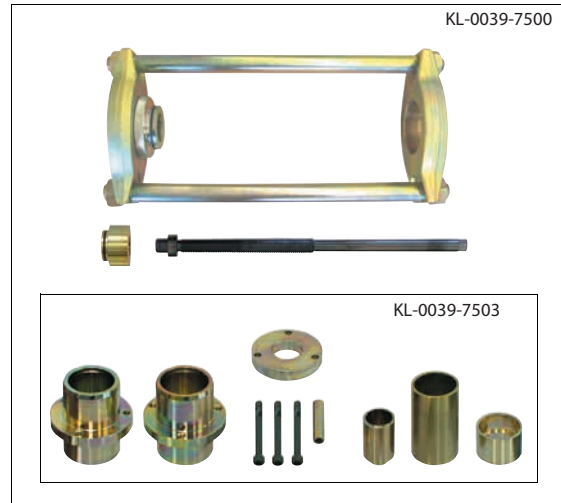
Part-No.	Description	Qty
KL-0039-7500	Pressing Device without Hydraulic Cylinder, Mercedes Sprinter	1
KL-0040-2500	Hydraulic Cylinder (17t)	1

**Scope of Delivery:**  
**KL-0039-7500 Pressing Device without Hydr. Cyl., Mercedes Sprinter/VW LT (2D)**

Part No:	Description	Qty
KL-0039-7503	Sleeve Set, Mercedes Sprinter	1
KL-0039-1140	Press Frame, (lightweight, short)	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1930	Pressure Spindle, M20x350mm, with O-Ring	1

**Scope of Delivery:**  
**KL-0039-7503 Sleeve Set, Mercedes Sprinter/VW LT (2D)**

Part No.	Description	Qty
KL-0039-1823	Support Sleeves with Clamping Disc for Mercedes Sprinter	1
KL-0039-1662	Pressure/Support Sleeve, short, Ø 62mm	1
KL-0039-1762	Pressure/Support Sleeve, long, Ø 62mm	1
KL-0039-1824	Pressure Sleeve	1



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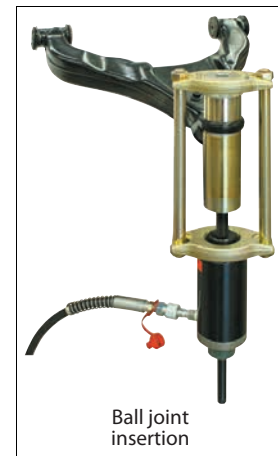
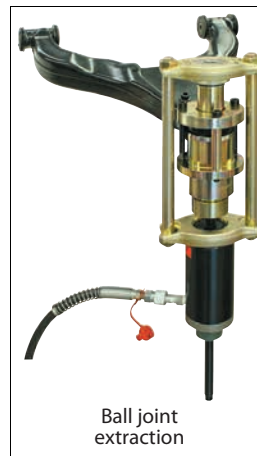
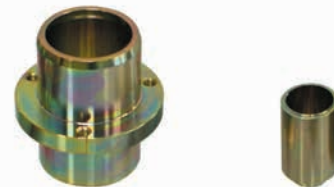
## KL-0039-7535 (Pat. e.g. US-Patent 7,020,944) Upgrade Kit for KL-0039-750, Mercedes Sprinter (W906)/VW Crafter (2E/2F)

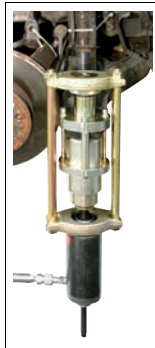
**Suitable for Mercedes Sprinter (W906) from 2006 onwards and VW Crafter (2E/2F) from 2006 onwards, suspension ball joints on the front lower wishbone.**

The upgrade kit **KL-0039-7535** enables the pressing device **KL-0039-750** also to be used on Mercedes Sprinter (W906) models from 2006 onwards and VW Crafter (2E/2F) models from 2006 onwards.

**Scope of Delivery:**  
**KL-0039-7535 Upgrade Kit for KL-0039-750**

Part No.	Description	Qty
KL-0039-1828-1	Support Sleeve for Shoulder Ø 60mm	1
KL-0039-1829	Pressure Sleeve	1





## KL-0039-753

(Patented)

### Pressing Device with Hydraulic Cylinder, Mercedes Sprinter (W906)/VW Crafter (2E/2F)

**Suitable for Mercedes Sprinter (W906) from 2006 onwards and VW Crafter (2E/2F) from 2006 onwards, suspension ball joint on the front lower wishbone.**

Used in conjunction with hydraulic pump **KL-0215-35 M25** or **KL-0215-37 M25**, the **KL-0039-753** pressing device, enables suspension ball joints to be pressed into and pressed out from the lower wishbone quickly and without any trouble. Removal and installation of the suspension ball joints can be carried out in situ on the vehicle.

#### Scope of Delivery: KL-0039-753 Pressing Device with Hydraulic Cylinder

Part No.	Description	Qty
KL-0039-7530	Pressing Device without Hydraulic Cylinder, MB Sprinter	1
KL-0040-2500	Hydraulic Cylinder (17t)	1

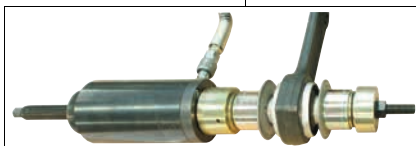
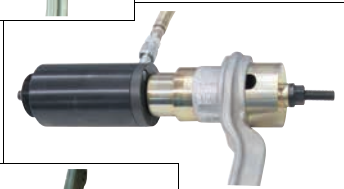
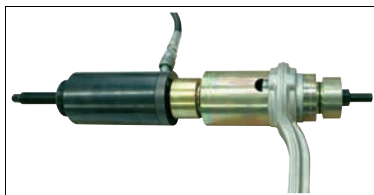
#### Scope of Delivery: KL-0039-7530 Pressing Device without Hydraulic Cylinder

Part No.	Description	Qty
KL-0039-7533	Sleeve Set, Mercedes Sprinter, (W906)/VW Crafter (2E/2F)	1
KL-0039-1140	Press Frame, lightweight, short	1
KL-0039-1002	Retaining Adaptor for Clamping Nut and Pressure Spindle	1
KL-0039-1930	Pressure Spindle, M20x350mm	1

#### Scope of Delivery: KL-0039-7533 Sleeve Set

Part No.	Description	Qty
KL-0039-7534	Support Sleeve with Clamping Washer	1
KL-0039-1829	Pressure Sleeve	1
KL-0039-1762	Pressure Sleeve, Ø 62mm, long	1
KL-0039-1662	Support Sleeve, Ø 62mm, short	1

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## KL-0350-50 B

### Pulling Device for Silentbloc, Mercedes W220/W211/W203

**Suitable for Mercedes C-Class (W203), E-Class (W211) and S-Class (W220), front axle.**

Designed for the fast and safe extraction and insertion of silentblocs at the wishbone and thrust rod (W171, W203, W209 and W211) as well as at the wishbone (W220).

#### Scope of Delivery: KL-0350-50 B Pulling Device for Silentbloc

Part No.	Description	Qty
<b>KL-0350-500 B</b>	<b>Pulling Device without Hydraulic Cylinder, for Silentbloc</b>	<b>1</b>
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	1

#### Scope of Delivery: KL-0350-500 B Pulling Device without Hydraulic Cylinder

Part No.	Description	Qty
<b>KL-0350-501 B</b>	<b>Sleeve Set, Mercedes W220/W211/W203 (Silentbloc)</b>	<b>1</b>
<b>KL-0350-502 A</b>	<b>Sleeve Set, Mercedes W220/W211 (Aluminium washers)</b>	<b>1</b>
KL-0039-1914	Pull Spindle, M14, with Nut	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1

#### Scope of Delivery: KL-0350-501 B Sleeve Set, Silenbloc

Part No.	Description	Qty
KL-0350-5001	Support Sleeve, 80mm	1
KL-0350-5004	Pressure Piece	1
KL-0215-5503	Pressure Sleeve (removal)	1

#### Scope of Delivery: KL-0350-502 A Sleeve Set (Aluminium Washers)

Part No.	Description	Qty
KL-0039-1650	Pressure/Support sleeve, short, Ø 50mm	2
KL-0350-5003	Pressure Sleeve	1

## KL-0350-511 A

### Sleeve Set with Adaptors, Mercedes W220/W211

**Suitable for Mercedes W220 (S-Class) and W211 (E-Class), front axle.**

The ball joint in control arms (W211 - E-Class) or wishbones (W220 - S-Class) can easily and safely be installed and removed by using the **KL-0350-511 A** sleeve set in conjunction with a hydraulic bench press.

**Advantages:**

- Time savings of approx. 1-3 hours.
- The tool is easy to operate.

**Scope of Delivery:**

**KL-0350-511 A Sleeve Set with Adaptors, Mercedes W220/W211**

Part No.	Description	Qty
<b>KL-0350-510 A</b>	<b>Sleeve Set, Mercedes W220/W211</b>	<b>1</b>
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	2

**Scope of Delivery:**

**KL-0350-510 A Sleeve Set, Mercedes W220/W211**

Part No.	Description	Qty
KL-0350-5101	Support Sleeve	1
KL-0350-5102	Pressure Sleeve	1
KL-0039-1640	Pressure/Support Sleeve, short, Ø 40mm	1



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## KL-0350-1

### Pulling Device with Hydraulic Cylinder, Silentbloc, Mercedes W202

**Suitable for Mercedes W202 (C-Class) and W170 (SLK), front axle.**

The **KL-0350-1** pulling device allows both the split-type front silentbloc as well as the solid-type rear silentbloc to be quickly, easily and safely replaced on the front lower wishbone. Removal of the wishbone from the car is not necessary.

The hydraulic cylinder **KL-0040-2500**, used with the appropriate adaptors, makes work easier, especially when silentblocs are very tight-fitting or severely corroded/seized in place.

**Scope of Delivery:**

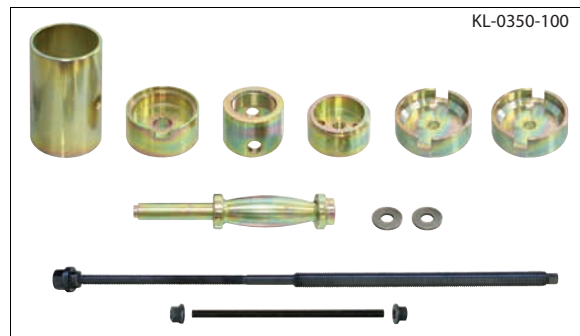
**KL-0350-1 Pulling Device with Hydraulic Cylinder, Silentbloc, Mercedes W202**

Part No.	Description	Qty
<b>KL-0350-100</b>	<b>Pulling Device for Silentbloc (MB W202)</b>	<b>1</b>
KL-0040-2500	Hydraulic Cylinder 17 t	1

**Scope of Delivery:**

**KL-0350-100 Pulling Device for Silentbloc, Mercedes W202**

Part No.	Description	Qty
KL-0350-1001	Support Sleeve (removal)	1
KL-0350-1002	Pressure Piece (removal)	1
KL-0350-1003	Pressure Piece (installation)	1
KL-0350-1004	Support Sleeve (installation)	1
KL-0039-1912-1	Pull Spindle, M12	1
KL-0040-2542-2	Shoulder Nut, M12	1
KL-0350-1101	Mandrel	1
KL-0350-1102	Pressure Piece	2
KL-0350-0008	Thread Spindle, M10x230mm	1
KL-0350-0009	Hex Shoulder Nut, M10	2
KL-0350-0010	Disc, Ø 10mm	2





## KL-0350-2

### Pulling Device with Hydraulic Cylinder, Silentbloc, Mercedes W210

**Suitable for Mercedes W210 (E-Class) front axle.**

For the easy replacement of both the split-type front silentbloc and solid-type rear silentbloc on the front lower wishbone. Removal of the wishbone from the car is not necessary using this tool.

**Technical Data:**

Max. load capacity of thread spindle:	5t
Max. load capacity of pull spindle:	7t
Max. load capacity of hydraulic cylinder:	17t

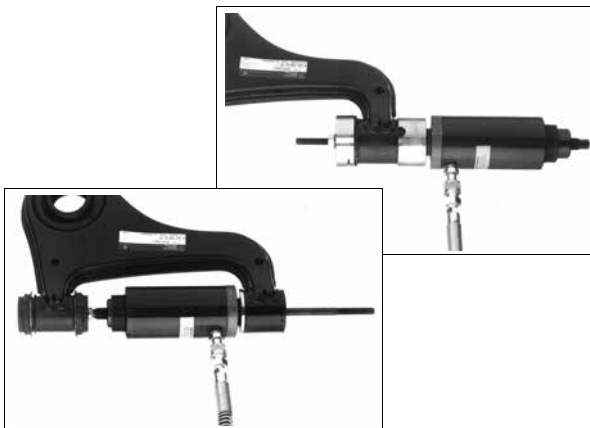
**Scope of Delivery: KL-0350-2 Pulling Device with Hydraulic Cylinder, Silentbloc**

Part No.	Description	Qty
KL-0350-200	Pulling Device without Hydraulic Cylinder, Silentbloc	1
KL-0040-2500	Hydraulic Cylinder, 17t	1

**Scope of Delivery: KL-0350-200 Pulling Device without Hydr. Cylinder, Silentbloc**

Part No.	Description	Qty
KL-0350-2001	Support Sleeve (removal)	1
KL-0350-2002	Set of Supporting Segments (3-pc.)	1
KL-0350-2004	Pressure Piece (removal)	1
KL-0350-2005	Support Sleeve (installation)	1
KL-0350-2006	Pressure Piece (installation)	1
KL-0040-2542-2	Shoulder Nut, M12	1
KL-0039-1912-1	Pull Spindle, M12	1
KL-0350-2102	Guide Sleeve	1
KL-0350-2103	Pressure Piece (removal)	1
KL-0350-2104	Pressure Piece	2
KL-0350-0008	Thread Spindle, M10x230mm	1
KL-0350-0009	Hex Shoulder Nut, M10	2
KL-0350-0010	Disc, Ø 10mm	2
KL-0350-2010	Pressure Piece (removal)	1

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## KL-0350-60

### Pulling Device with Hydraulic Cylinder, Silentbloc, Mercedes Vito/Viano, Rear Axle

**Suitable for Mercedes Vito/Viano (W639) from 2003 onwards, rear axle trailing arm.**

Silentblocs on the rear axle trailing arm can be removed and installed without any trouble thanks to the pulling device **KL-0350-60** which is used in conjunction with hydraulic pump **KL-0215-35 M25**.

**Scope of Delivery: KL-0350-60 Pulling Device with Hydraulic Cylinder, Silentbloc**

Part No.	Description	Qty
KL-0350-600	Pulling Device without Hydraulic Cylinder	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	1
KL-0040-2500	Hydraulic Cylinder, 17t	1

**Scope of Delivery: KL-0350-600 Pulling Device without Hydraulic Cylinder**

Part No.	Description	Qty
KL-0350-601	Set of Sleeves, Mercedes Vito/Viano, Rear Axle	1
KL-0039-1914	Pull Spindle, M14, with Nut	1

**Scope of Delivery: KL-0350-601 Set of Sleeves, Mercedes Vito/Viano, Rear Axle**

Part No.	Description	Qty
KL-0039-1764	Pressure-/Support Sleeve (long) Ø 64/56mm	1
KL-0039-1664	Pressure-/Support sleeve (short) Ø 64/56mm	1
KL-0039-1333	Centring Ring, Ø 33mm	1



## KL-0352

### Pulling Device for Rubber Bushes, Mercedes

Suitable for use on inner rubber bushes as found on the lower wishbone at the rear axle of Mercedes W201 and W124.

The pulling device **KL-0352** allows for the quick and accurate replacement of the inner rubber bushings on the lower rear wishbone. This tool is not intended for use with silentbloc-type bushes (rubber to metal bushes).

**Scope of Delivery: KL-0352 Pulling Device for Rubber Bushes, Mercedes**

Part No.	Description	Qty
KL-0352-0001	Housing (open)	1
KL-0352-0002	Guide Sleeve	1
KL-0352-0003	Thrust Piece	1
KL-0352-0004	Axial Bearing	1
KL-0016-0006	Circlip SB 26	1
KL-0352-0006	Hex Shoulder Nut	1
KL-0352-0007	Spindle, M12x210mm	1



## KL-0043-11 B

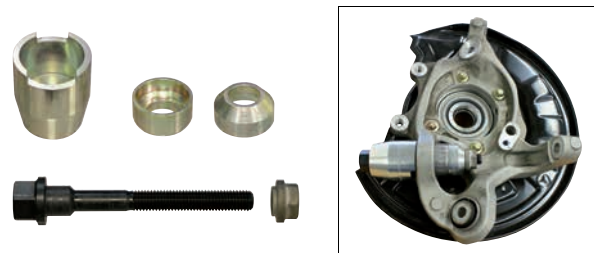
### Pulling Device for Joint Bush, Mercedes

Suitable for Mercedes W124, 190 Series (W201), C-Class (W202, W203, W204), CLK (W208, W209), E-Class (W210) and S-Class (W140), rear axle.

The **KL-0043-11 B** pulling device enables the fast, simple and safe removal and installation of the joint bushes that are found on rear axle wheel bearing housings, without the need for removing the latter from the vehicle.

**Scope of Delivery: KL-0043-11 B Pulling Device for Joint Bushes, Mercedes**

Part No.	Description	Qty
KL-0043-110 A	Housing	1
KL-0043-1102	Spindle	1
KL-0043-1003	Thrust Piece	1
KL-0043-1104	Thrust Piece	1
KL-0043-1105	Shoulder Nut, M14	1



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**Accessories (on demand):**

**1993 U-20** CODE:1436686 - Reversible ratchet



**1 B - Combination Spanner UD-Profil**



## KL-0352-1 B

### Pulling Device for Joint Bush, Mercedes

Suitable for Mercedes C-Class (W202, W203, W204), CLK (W208, W209), E-Class (W210), W124, W140 and W201, rear axle.

The **KL-0352-1 B** pulling device, which is used in conjunction with a hydraulic pump such as the **KL-0215-35 M25** pump, allows for the fast, simple and safe removal and installation of the joint bushes found at the specified rear axle wheel bearing housings without the need for removing the latter from the vehicle. Even severely seized or corroded joint bushes are no longer an issue using the **KL-0040-2500** Hydr. Cyl. (17t).

**Advantages:**

- Substantial time savings.
- The tool is easy to operate.
- The 17t hydraulic cylinder **KL-0040-2500** can universally be used on other GEDORE Automotive tools to exert pulling or pushing force.

**Technical Data:**

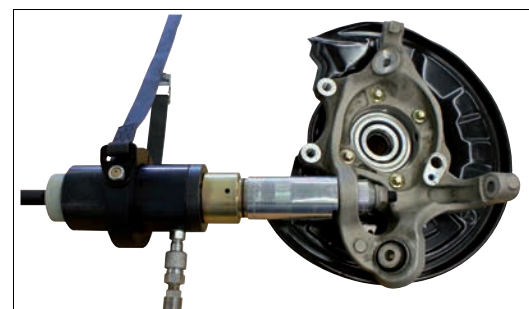
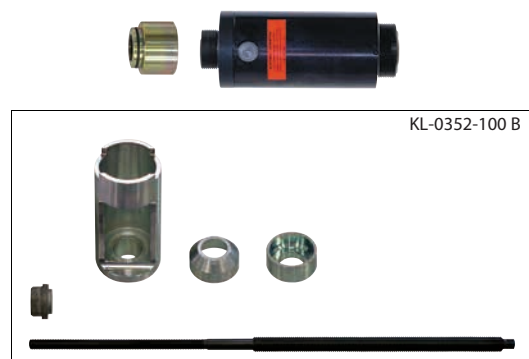
Weight:	7.6kg
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**Scope of Delivery: KL-0352-1 B Pulling Device with Hydr. Cyl., Joint Bush**

Part No.	Description	Qty
<b>KL-0352-100 B</b>	<b>Pulling Device without Hydraulic Cylinder, Joint Bush, Mercedes</b>	<b>1</b>
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	1
KL-0040-2500	Hydraulic Cylinder, 17t	1

**Scope of Delivery: KL-0352-100 B Pulling Device without Hydr. Cyl., Joint Bush**

Part No.	Description	Qty
KL-0352-1001	Support Sleeve	1
KL-0043-1003	Pressure Piece	1
KL-0043-1104	Pressure Piece	1
KL-0043-1105	Shoulder Nut, M14	1
KL-0039-1914-1	Pull Spindle, M14	1





## KL-0352-3

### Pulling Device with Hydraulic Cylinder, Silentbloc, Mercedes W204/W211

**Suitable for Mercedes C Class (W204) and E Class (W211), rear axle.**

The **KL-0352-3** pulling device is used in conjunction with a hydraulic pump, for example the **KL-0215-35 M26**, thus allowing the easy, quick and safe removal and installation of thrust rod silentblocs on rear axle wheel bearing housings to be performed without the need for removing the latter from the vehicle. Even silentblocs that are very tight-fitting or seized due to corrosion are no longer an issue using the 17t hydraulic cylinder **KL-0040-2500**.

**Scope of Delivery:**

**KL-0352-3 Pulling Device with Hydraulic Cylinder, Silentbloc**

Part No.	Description	Qty
<b>KL-0352-300 A</b>	<b>Pulling Device without Hydraulic Cylinder, Silentbloc</b>	<b>1</b>
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	1
KL-0040-2500	Hydraulic Cylinder, 17t	1

**Scope of Delivery**

**KL-0352-300 A Pulling Device without Hydraulic Cylinder, Silentbloc**

Part No.	Description	Qty
<b>KL-0352-301 A</b>	<b>Set of Sleeves for Pulling Device, Mercedes W204/W211</b>	<b>1</b>
KL-0039-1912-3	Shoulder Nut, M12 (flat), waf 19mm	1
KL-0039-1912-1	Pull Spindle, M12	1

**Scope of Delivery:**

**KL-0352-301 A Set of Sleeves for Pulling Device, Mercedes W204/W211**

Part No.	Description	Qty
KL-0352-3001	Support Sleeve, long, Ø 50mm	1
KL-0352-3002	Pressure Sleeve, short, Ø 38mm	1
KL-0482-2006	Extension	1
KL-0352-3003	Support Sleeve, short, Ø 50mm	1

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## KL-0357-10

### Pulling Device for Trailing Arm Bearing, Mercedes A-Class (W168)

**Suitable for Mercedes A-Class (W168), rear trailing arm.**

Allows precise extraction and insertion of the inner and outer taper roller bearings and seals.

**Scope of Delivery:**

**KL-0357-10 Pulling Device for Trailing Arm Bearing, Mercedes A-Class (W168)**

Part No.	Description	Qty
KL-0357-1001	Mandrel, Ø 16mm for shaft	1
KL-0357-1002	Mandrel, Ø 21mm for plastic sleeve	1
KL-0357-1003	Pressure Disc	1
KL-0357-1004	Pressure Disc	1
KL-0040-3004	Axial Bearing	1
KL-0040-3005	Circlip SB35	1
KL-0352-0007	Spindle, M12x210mm	1
KL-0357-1006	Shoulder Nut, M12	1
KL-0357-1007	Pressure Sleeve	1
KL-0357-101	Collet Chuck with Support Sleeve	1
KL-0357-1016	Clamp Sleeve	1



**Accessories (on demand):**

**1993 U-20** CODE:1436686 - Reversible ratchet



**1 B - Combination Spanner UD-Profil**



## KL-0356-11

### Pulling Device with Hydraulic Cylinder, Silentbloc, Mercedes

#### Suitable for Mercedes W202 (C-Class) and W208 (CLK) rear axle subframe.

The pulling device **KL-0356-11** allows for the fast removal and replacement of **all** the silentblocs found on the rear axle subframe (including differential mounting bushes). Dismantling the rear axle subframe is not necessary.

#### Advantages:

- Fast - Large time savings of up to 3 hours.
- Safe - No hammer, chisel or similar tools needed.
- Universal - Hydraulic Cylinder **KL-0040-2500** can be used with many other GEDORE Automotive tools.

#### Scope of Delivery:

##### KL-0356-11 Pulling Device with Hydraulic Cylinder, Silentbloc, Mercedes

Part No.	Description	Qty
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0040-2552	Adaptor, M42x2 to Ø 30mm	1
<b>KL-0356-110</b>	<b>Pulling Device without Hydraulic Cylinder, Silentbloc</b>	<b>1</b>

#### Scope of Delivery:

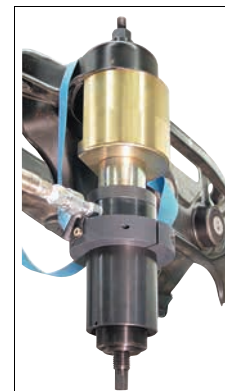
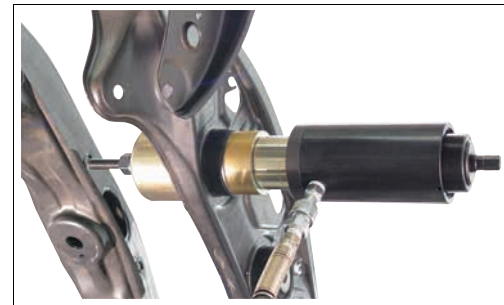
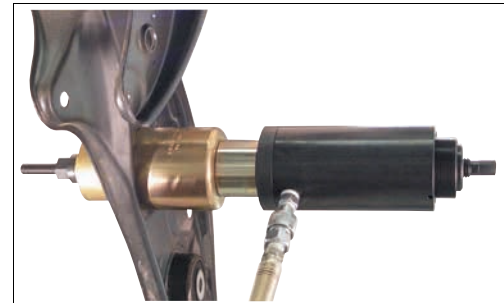
##### KL-0356-110 Pulling Device without Hydraulic Cylinder, Silentbloc, Mercedes

Part No.	Description	Qty
KL-0040-2542-2	Shoulder Nut, M12	1
<b>KL-0356-111</b>	<b>Set of Sleeves</b>	<b>1</b>
KL-0039-1912-1	Pull Spindle, M12	1

#### Scope of Delivery:

##### KL-0356-111 Set of Sleeves, Mercedes

Part No.	Description	Qty
KL-0356-1101	Support Sleeve	1
KL-0356-0005	Adaptor Ring	1
KL-0356-1102	Pressure Sleeve	1
KL-0356-1103	Thrust Piece	1
KL-0356-1104	Thrust Piece	1
KL-0356-1105	Support Plate	1
KL-0356-1106	Thrust Piece	1
KL-0356-1107	Support Sleeve	1
KL-0356-1108	Support Sleeve	1
KL-0356-1109	Pressure Sleeve	1
KL-0355-2002	Support Ring	1







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## KL-0356-12

### Pulling Device with Hydraulic Cylinder, for Silentbloc, Mercedes W210

**Suitable for Mercedes E-Class (W210) rear subframe.**

The newly developed tool set **KL-0356-12** enables the quick removal and replacement of **all** the silentblocs on the rear axle sub-frame (including differential mounting bushes) without having to remove the rear axle subframe from the vehicle.

**Advantages:**

- Fast - Large time savings of up to 3 hours.
- Safe - No hammer, chisel or similar tools needed.
- Universal - The 17t hydraulic cylinder **KL-0040-2500** can be used on many other GEDORE Automotive tools.

**Note:** The use of the safety belt **KL-0040-2590** is always recommended when working with the Hydraulic Cylinder **KL-0040-2500** on the vehicle.

**Scope of Delivery: KL-0356-12 Pulling Device with Hydr. Cyl., for Silentbloc**

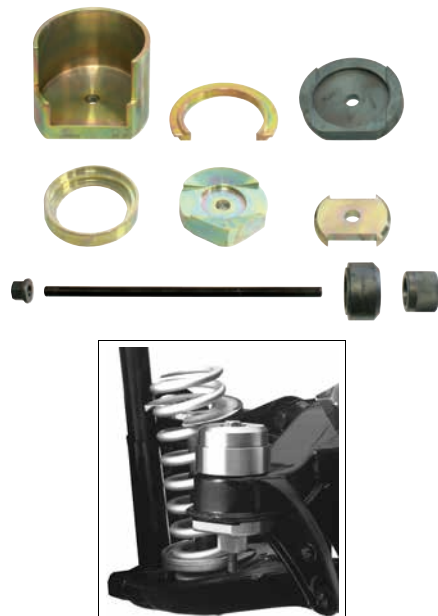
Part No.	Description	Qty
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0040-2552	Adaptor, M42x2 to Ø 30mm	1
<b>KL-0356-120</b>	<b>Pulling Device w/o Hydraulic Cylinder, for Silentbloc</b>	<b>1</b>

**Scope of Delivery: KL-0356-120 Pulling Device without Hydraulic Cylinder**

Part No.	Description	Qty
KL-0040-2542	Pull Spindle, M12, with Nut	1
<b>KL-0356-121</b>	<b>Set of Sleeves, Mercedes W210</b>	<b>1</b>

**Scope of Delivery: KL-0356-121 Set of Sleeves, Mercedes W210**

Part No.	Description	Qty
KL-0356-1201	Support Sleeve	1
KL-0356-1202	Pressure Piece	1
KL-0356-1203	Pressure Piece	1
KL-0356-1204	Support Sleeve	1
KL-0356-1205	Support Sleeve	1
KL-0356-1206	Pressure Sleeve	1
KL-0356-1207	Tension Segment	2
KL-0356-1208	Mandrel	1
KL-0356-1209	Pressure Piece	1
KL-0356-1105	Support Disc	1
KL-0356-1108	Support Sleeve	1
KL-0356-1211	Pressure Sleeve	1
KL-0356-1212	Pressure Piece	1



## KL-0356-1

### Pulling Device, Mercedes

**Suitable for Mercedes W124 and W201.**

Intended for the replacement of both front and rear rubber bushes on the suspension points of the rear subframe.

**Advantage:** This tool allows the user to replace rubber bushes in situ on the vehicle without having to remove the rear subframe.

**Scope of Delivery: KL-0356-1 Pulling Device, Mercedes**

Part No.	Description	Qty
KL-0356-0001	Housing	1
KL-0014-0014	Axial Bearing	2
KL-0356-0004	Circlip SB42	2
KL-0356-0005	Adaptor Ring	1
KL-0350-0008	Thread Spindle, M10x230mm	1
KL-0356-0007	Knurled Nut	1
KL-0356-0008	Bearing Cover (small)	1
KL-0356-0009	Thrust Piece	1
KL-0356-0010	Spacer Ring	1
KL-0356-0011	Pressure Plate	1
KL-0356-0012	Pressure Plate	1
KL-0350-0009	Hex Shoulder Nut, M10	1

## KL-0610-14

### Pressing Device with Hydraulic Cylinder, Silentbloc, Ford Transit

**Suitable for Ford Transit (from 2000 onwards), front axle wishbone.**

Designed for the quick and safe removal and installation of front axle wishbone silentblocs (Ø 66mm).

This tool enables even heavily corroded/seized silentblocs to be removed and replaced within just a few minutes.

**Scope of Delivery:**

**KL-0610-14 Pressing Device with Hydraulic Cylinder, Silentbloc, Ford Transit**

Part No.	Description	Qty
KL-0610-140	Pressing Device without Hydraulic Cylinder, Silentbloc	1
KL-0040-2500	Hydraulic Cylinder, 17t	1

**Scope of Delivery:**

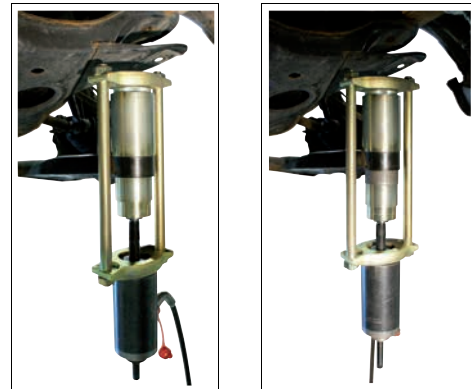
**KL-0610-140 Pressing Device without Hydraulic Cylinder, Silentbloc**

Part No.	Description	Qty
KL-0610-141	Sleeve Set, Ford Transit (from 2000 onwards)	1
KL-0039-1930	Pressure Spindle, M20x350mm, with O-Ring	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1150	Press Frame, lightweight, long	1

**Scope of Delivery:**

**KL-0610-141 Sleeve Set, Ford Transit (from 2000 onwards)**

Part No.	Description	Qty
KL-0610-1401	Pressure/Support Sleeve, long, Ø 76mm	1
KL-0610-1402	Pressure/Support Sleeve, short, Ø 65mm	1



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## KL-0610-12 L

### Pressing Device with Hydraulic Cylinder, Silentbloc, Ford Fiesta/Puma

**Suitable for Ford Fiesta [IV] (models 1995-2002), KA, Courier and Puma, rear axle.**

Designed for the quick and safe removal and installation of the silentblocs found at the rear axle. This tool enables even heavily corroded silentblocs to be pressed out and replaced within just a few minutes.

**Scope of Delivery:**

**KL-0610-12 L Pressing Device with Hydraulic Cylinder, Silentbloc**

Part No.	Description	Qty
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0610-120 L	Pressing Device without Hydraulic Cylinder, Silentbloc	1

**Scope of Delivery:**

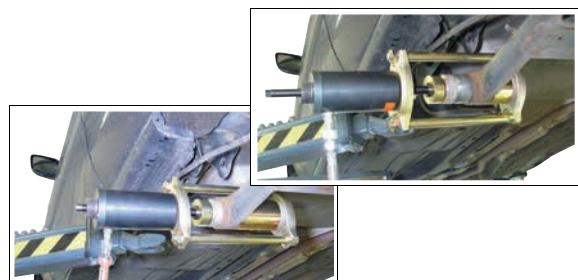
**KL-0610-120 L Pressing Device without Hydraulic Cylinder, Silentbloc**

Part No.	Description	Qty
KL-0610-121	Sleeve Set, Ford Fiesta	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1930	Pressure spindle with O-Ring, M20x350mm	1
KL-0039-1140	Press Frame, short, lightweight	1

**Scope of Delivery:**

**KL-0610-121 Sleeve Set, Ford**

Part No.	Description	Qty
KL-0610-1211	Thrust Piece	1
KL-0039-1672	Pressure-/Support Sleeve, short, Ø 72mm	1
KL-0039-1772	Pressure-/Support Sleeve, long, Ø 72mm	1



## KL-0610-15 A

### Pressing Device, Ford/Volvo

**Suitable for the silentblocs that are found at the rear axle trailing arm of: Ford Galaxy (from 05/2006 onwards), Mondeo (from 2007 onwards), S-Max (from 2006 onwards) and Volvo S60/V60 (134/155), XC 60 (156), S80 (124/144), V70 / XC70 (135/136).**

Designed for the quick, safe and professional removal and replacement of the silentblocs that are found on rear axle trailing arms. Removal and installation of the silentblocs can be carried out in situ on the vehicle within just a few minutes, without having to dismount the rear axle trailing arm. The special design and shape of the support ring and pressure sleeve ensure that even seized or heavily corroded silentblocs can be pressed out properly and without any trouble. The tool also facilitates the accurate positioning of the new silentbloc thus ensuring its correct installation.

**Note:** The **KL-0215-35 M25** hydraulic hand pump (accessory) is needed to drive the hydraulic cylinder **KL-0040-2500**. The hydraulic pressure and necessary force can be checked while operating the pump at pressure gauge **KL-0040-2529** (supplied with the tool set). The pressure gauge features a tonne scale specifically adapted to our **KL-0040-2500** hydraulic cylinder (17t).

#### Technical Data:

Pressure sleeve outer diameter:	Ø 90mm
Inner length (press frame):	245.5mm
Outer length (press frame):	332mm

#### Scope of Delivery:

##### KL-0610-15 A Pressing Device with Hydraulic Cylinder, Silentbloc, Rear Axle

Part No.	Description	Qty
<b>KL-0610-150 A</b>	<b>Pressing Device without Hydraulic Cylinder, Rear Silentbloc</b>	<b>1</b>
KL-0039-1002	Retaining Adaptor with O-Rings	1
KL-0039-1930	Pressure Spindle with O-Ring, M20x350mm	1
KL-0040-2500	Hydraulic Cylinder (17t)	1

#### Scope of Delivery:

##### KL-0610-150 A Pressing Device without Hydraulic Cylinder, Silentbloc, Rear Axle

Part No.	Description	Qty
<b>KL-0610-151 A</b>	<b>Upgrade Kit, Ford/Volvo</b>	<b>1</b>
KL-0039-1144	Base Plate, 2¼"-14 UNS	1
KL-0215-4004	Pull Rod	1
KL-0049-3004	Hex Nut, M18	4

#### Scope of Delivery:

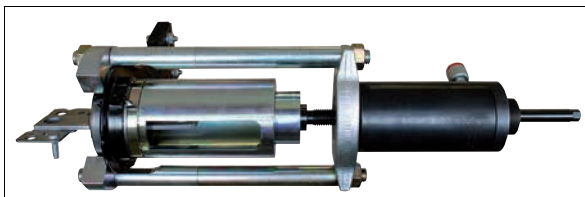
##### KL-0610-151 A Upgrade Kit, Ford/Volvo

Part No.	Description	Qty
KL-0610-1501-1	Pressure Ring	1
KL-0610-1501-2	Pull Rod Extension	2
KL-0610-1502	Pressure Sleeve, Ford/Volvo	1
KL-0610-1503	Adaptor	1

## Accessories for KL-0040-2800

These accessories are needed if the **KL-0040-2800** hydraulic cylinder is to be used as a drive for the **KL-0610-150 A** pressing device for silentbloc.

Part No.	Description
KL-0040-2810	Pressure Spindle, M24
KL-0040-2855	Adaptor, 2¼"-14 UNS to 2¾"-16 UN
KL-0039-1004	Retaining Adaptor with O-Rings, for Pressure Spindle (Ø 18mm)



## KL-0610-13 LA

### Pressing Device with Hydraulic Cylinder, Silentbloc, Ford/Mazda/Volvo

Suitable for Ford: Focus I and II, C-MAX, Kuga I, Volvo: C30, S40, V50 (models from 2007 onwards) and Mazda: 3 (BK), 5 (CR19, CW), rear axle trailing arm.

Essential tool for the quick and safe removal and replacement of the silentbloc found at rear axle trailing arms. The removal of the trailing arm from the vehicle is not necessary.

**Scope of Delivery:**

**KL-0610-13 LA Pressing Device with Hydraulic Cylinder, Silentbloc**

Part No.	Description	Qty
KL-0610-130 LA	Pressing Device without Hydraulic Cylinder, Silentbloc	1
KL-0040-2500	Hydraulic Cylinder, 17t	1

**Scope of Delivery:**

**KL-0610-130 LA Pressing Device without Hydraulic Cylinder, Silentbloc**

Part No.	Description	Qty
KL-0610-131 A	Set of Sleeves, Ford Focus	1
KL-0039-1002	Retaining Adaptor with O-Rings for Clamping Nut and Pressure Spindle	1
KL-0039-1930	Pressure Spindle, M20x350mm, with O-Ring	1
KL-0039-1140	Press Frame, lightweight, short	1

**Scope of Delivery:**

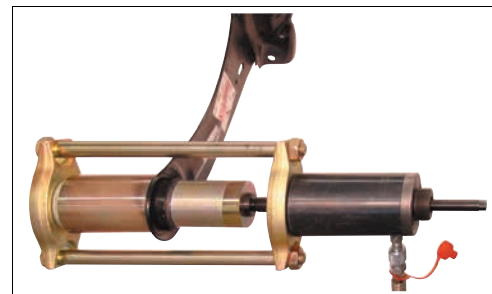
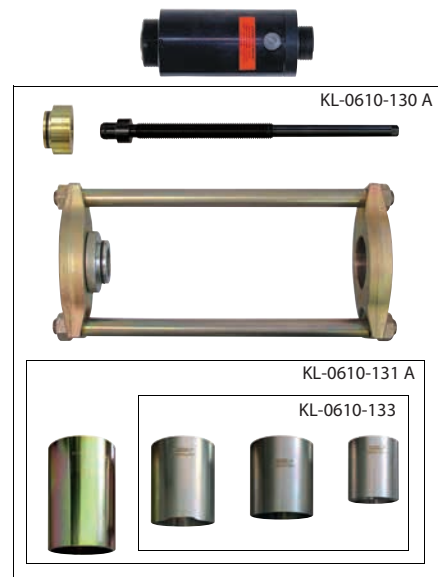
**KL-0610-131 A Set of Sleeves, Ford/Mazda/Volvo**

Part No.	Description	Qty
KL-0610-133	Upgrade Set of Sleeves, Ford Focus/Mazda 3	1
KL-0039-1774	Pressure/Support Sleeve, long, Ø 74mm	1

**Scope of Delivery:**

**KL-0610-133 Upgrade Sleeve Set, Ford Focus/Mazda 3**

Part No.	Description	Qty
KL-0610-1311 A	Pressure/Support Sleeve, Ø 59.3/52mm	1
KL-0610-1331	Pressure/Support Sleeve, Ø 70/66.5mm	1
KL-0610-1332	Pressure/Support Sleeve, Ø 70/62mm	1



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## KL-0421-2 A

### Pulling Device for Ball Joints, Opel/Vauxhall Vectra B

Suitable for Opel/Vauxhall Vectra models from 1995 onwards, rear axle trailing arm.

The pulling device **KL-0421-2 A** enables the removal and installation of the upper and lower ball joint on rear axle trailings arm to be performed within just a few minutes without the need for removing the trailing arm from the vehicle.

**Scope of Delivery:**

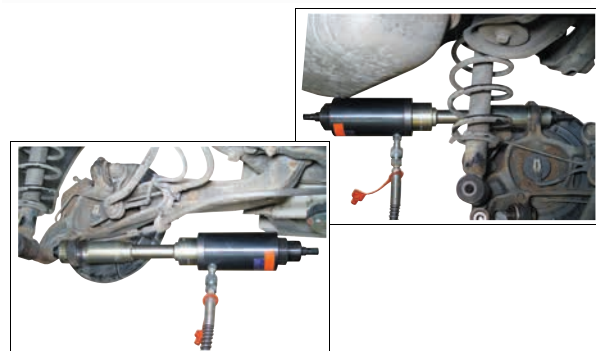
**KL-0421-2 A Pulling Device for Ball Joints, Opel/Vauxhall Vectra**

Part No.	Description	Qty
KL-0421-200 A	Pulling Device without Hydr. Cyl., for Ball Joints	1
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0040-2552	Adaptor, M42x2 to Ø 30mm	1

**Scope of Delivery:**

**KL-0421-200 A Pulling Device without Hydr. Cyl., for Ball Joints**

Part No.	Description	Qty
KL-0421-2001	Pressure/Support Sleeve, Ø 52/45.5mm	1
KL-0421-2002	Thrust Piece, Ø 44mm	1
KL-0421-2003	Support Sleeve, Ø 54/46mm	1
KL-0421-2004	Pressure/Support Sleeve, Ø 46/40mm	1
KL-0421-2005	Shoulder Nut, M12 (flat)	1
KL-0421-2006	Extension	1
KL-0039-1912-1	Pull Spindle, M12	1





## KL-0421-3

### Pulling Device with Hydraulic Cylinder

**Suitable for Opel/Vauxhall Astra (2003 onwards), Zafira B, rear axle.**

Indispensable for the quick and safe removal and replacement of silentblocs on the rear axle, without the need for removing the latter.

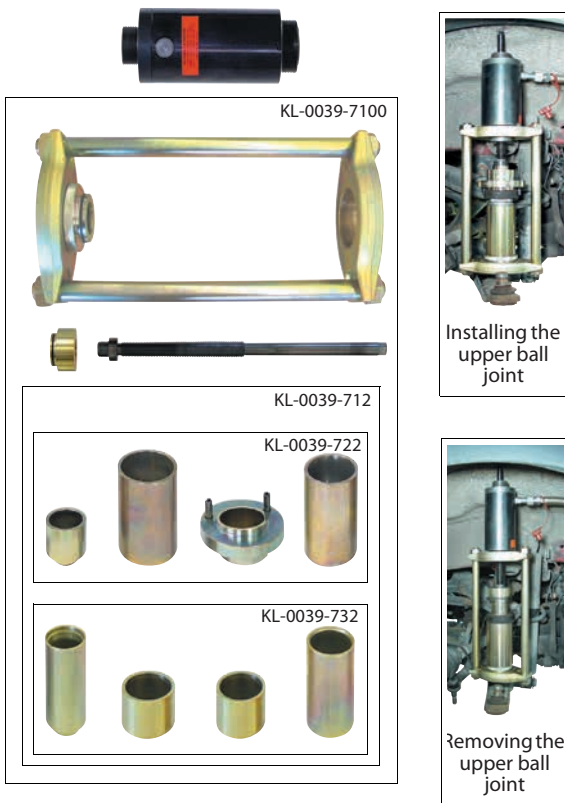
**Scope of Delivery: KL-0421-3 Pulling Device with Hydraulic Cylinder, Silentbloc**

Part No.	Description	Qty
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0040-2552	Adaptor, M42x2 to Ø 30mm	1
<b>KL-0421-300</b>	<b>Pulling Device without Hydraulic Cylinder, Silentbloc</b>	<b>1</b>

**Scope of Delivery: KL-0421-300 Pulling Device without Hydraulic Cylinder**

Part No.	Description	Qty
KL-0040-2542	Pull Spindle, M12, with Nut	1
KL-0421-3001	Support Sleeve with Clamping Jaw	1
KL-0421-3002	Thrust Piece	1
KL-0421-3003	Thrust Piece	1
KL-1001-1002	Support Sleeve (short)	1

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## KL-0039-710

### Pressing Device with Hydraulic Cylinder, Renault Master II/Vauxhall/Opel Movano I

**Suitable for Renault Master II (1998 onwards) and Vauxhall/Opel Movano I (1998 onwards), front axle**

Used in conjunction with the hydraulic pump **KL-0215-35 M25** or **KL-0215-37 M25**, the pressing device **KL-0039-710** allows for the quick, professional and safe removal and installation of the suspension ball joints on the front upper and lower wishbone. This tool enables even heavily corroded/seized ball joints to be pushed out and replaced within just a few minutes.

The removal of the upper or lower wishbone is not necessary.

**Advantages:**

- Substantial time savings of approx. 1-2 hours.
- Quick and professional removal/installation of the suspension ball joints.
- Hydraulic Cylinder (17t) **KL-0040-2500** can universally be used on other GEDORE Automotive tools to exert pulling or pushing force.

**Scope of Delivery: KL-0039-710 Pressing Device with Hydraulic Cylinder**

Part-No.	Description	Qty
<b>KL-0039-7100</b>	<b>Pressing Device without Hydraulic Cylinder</b>	<b>1</b>
KL-0040-2500	Hydraulic Cylinder (17t)	1

**Scope of Delivery: KL-0039-7100 Pressing Device without Hydraulic Cylinder**

Part No.	Description	Qty
KL-0039-1140	Press Frame (lightweight, short)	1
KL-0039-1930	Pressure Spindle, M20x350mm, with O-Ring	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
<b>KL-0039-712</b>	<b>Sleeve Set, Renault Master II/Vauxhall/Opel Movano I</b>	<b>1</b>

**Scope of Delivery: KL-0039-712 Sleeve Set**

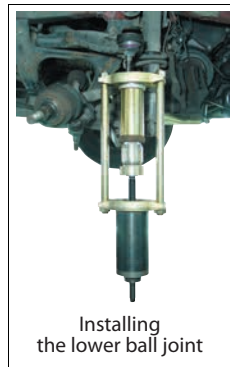
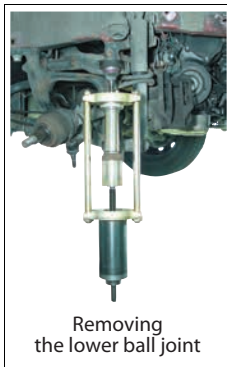
Part-No.	Description	Qty
<b>KL-0039-722</b>	<b>Sleeve Set, Renault Master, Upper Suspension Ball Joint</b>	<b>1</b>
<b>KL-0039-732</b>	<b>Sleeve Set, Renault Master, Lower Suspension Ball Joint</b>	<b>1</b>

**Scope of Delivery: KL-0039-722 Sleeve Set, Upper Suspension Ball Joint**

Part No.	Description	Qty
KL-0039-1644	Pressure/Support Sleeve, short, Ø 44mm	1
KL-0039-1764	Pressure/Support Sleeve, long, Ø 64mm	1
KL-0039-1820	Support Sleeve for Renault Master	1
KL-0039-1758	Pressure/Support Sleeve, long, Ø 58mm	1

**Scope of Delivery: KL-0039-732 Sleeve Set, Lower Suspension Ball Joint**

Part-No.	Description	Qty
KL-0039-1821	Pressure/Support Sleeve	1
KL-0039-1658	Pressure/Support Sleeve, short, Ø 58mm	1
KL-0039-1652	Pressure/Support Sleeve, short, Ø 52mm	1
KL-0039-1822	Pressure/Support Sleeve	1



## KL-1210-21

### Pressing Device, Renault Mégane/Scenic

**Designed for Renault Mégane II and Scenic II.**

The pressing device **KL-1210-21** used in conjunction with hydraulic pump **KL-0215-35 M25** or **KL-0215-37 M25** enables suspension ball joints to be pressed into and pressed out of the lower wishbone quickly and without any trouble. Removal and installation of the suspension ball joint can be carried out in situ on the vehicle, within a few minutes, with the wishbone in place.

**Scope of Delivery: KL-1210-21 Pressing Device with Hydraulic Cylinder**

Part No.	Description	Qty
<b>KL-1210-210</b>	<b>Pressing Device without Hydraulic Cylinder, Renault Mégane II</b>	<b>1</b>
KL-0040-2500	Hydraulic Cylinder, 17t	1

**Scope of Delivery: KL-1210-210 Pressing Device without Hydraulic Cylinder**

Part No.	Description	Qty
<b>KL-1210-211</b>	<b>Sleeve Set, Renault Mégane II</b>	<b>1</b>
KL-0039-1140	Press Frame, lightweight, short	1
KL-0039-1002	Retaining Adaptor with O-Rings, for cCamping Nut and Pressure Spindle	1
KL-0039-1930	Pressure Spindle, M20x350mm, with O-Ring	1

**Scope of Delivery: KL-1210-211 Set of Sleeves, Renault Mégane/Scenic**

Part No.	Description	Qty
KL-0039-1634	Pressure/Support Sleeve, short, Ø 34/26mm	1
KL-0039-1654	Pressure/Support Sleeve, short, Ø 54/46mm	1
KL-0039-1744	Pressure/Support Sleeve, long, Ø 44/36mm	1
KL-0039-1754	Pressure/Support Sleeve, long, Ø 54/46mm	1



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## KL-1210-30

### Pulling Device with 17t Hydraulic Cylinder

**Designed for Renault Laguna II rear subframe.**

This device enables the quick and safe removal and replacement of silentblocs on rear subframes. With this tool, even severely corroded silentblocs can be pressed out and replaced within just a few minutes.

The fixing unit ensures that silentblocs are aligned accurately into specified positions.

**Scope of Delivery: KL-1210-30 Pulling Device with 17t Hydr. Cyl., Silentbloc**

Part No.	Description	Qty
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydr. Cyl.	1
<b>KL-1210-300</b>	<b>Pulling Device without Hydr. Cyl., Silentbloc, Renault Laguna</b>	<b>1</b>

**Scope of Delivery: KL-1210-300 Pulling Device without Hydr. Cyl., Silentbloc**

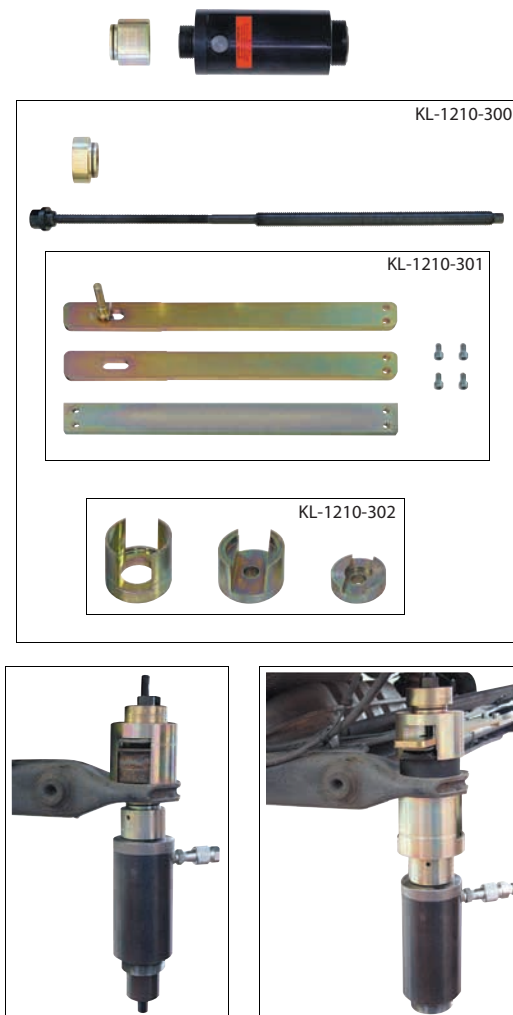
Part No.	Description	Qty
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1912	Pull Spindle, M12, with Nut	1
<b>KL-1210-301</b>	<b>Fixing Unit</b>	<b>1</b>
<b>KL-1210-302</b>	<b>Set of Sleeves</b>	<b>1</b>

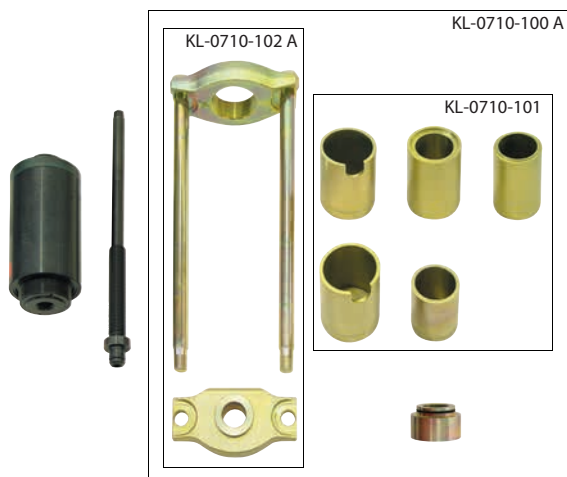
**Scope of Delivery: KL-1210-301 Fixing Unit, Renault Laguna**

Part No.	Description	Qty
KL-1210-3011	Mounting Rod	1
KL-1210-3012	Fixing Rod	2
KL-1210-3013	Socket Pin, Ø 14.5/12mm	1
KL-1210-3014	Adjusting Washer, Ø 15x21x1mm	1
KL-0040-2511	Cheese Head Screw, M8x16mm	4
KL-0205-2018	Circlip Ring A14	1

**Scope of Delivery: KL-1210-302 Set of Sleeves, Renault Laguna**

Part No.	Description	Qty
KL-1210-3021	Support Sleeve, long, Ø 88mm	1
KL-1210-3022	Pressure Piece, Ø 76mm	1
KL-1210-3023	Support Sleeve, Ø 88mm	1





## KL-0710-10 A

### Pressing Device with Hydraulic Cylinder

**Suitable for Volvo S60, V70, XC70 (2001 onwards) and S80 (1998 onwards), front axle with silentbloc Ø 48mm and 53mm.**

Indispensable for the quick, easy and safe removal and installation of the two silentblocs on lower wishbones. Thanks to this tool, it is not necessary to remove the wishbone completely from the vehicle.

**Advantages:**

- Substantial time savings of approx. 1-2 hours.
- Professional removal and installation of silentblocs.
- The **KL-0040-2500** hydraulic cylinder (17t) can be used universally on other GEDORE Automotive tools to exert pulling or pushing force.

**Scope of Delivery: KL-0710-10 A Pressing Device with Hydr. Cyl., Silentbloc**

Part No.	Description	Qty
<b>KL-0710-100 A</b>	<b>Pressing Device without Hydr. Cyl., Silentbloc, Volvo</b>	<b>1</b>
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0039-1930	Pressure Spindle, M20x350mm, with O-Ring	1

**Scope of Delivery: KL-0710-100 A Pressing Device without Hydr. Cyl., Silentbloc**

Part No.	Description	Qty
<b>KL-0710-101</b>	<b>Set of Sleeves, (long), Volvo Wishbone</b>	<b>1</b>
<b>KL-0710-102 A</b>	<b>Press Frame (long), without Drive</b>	<b>1</b>
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1

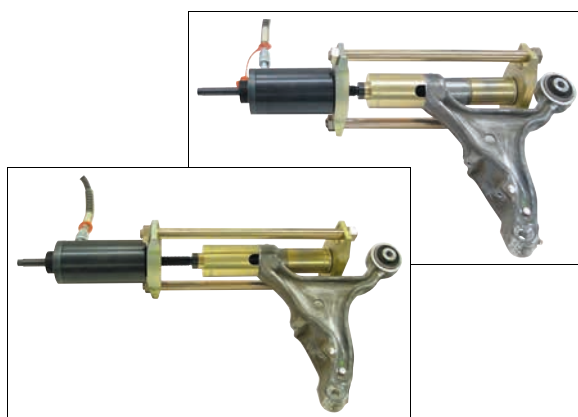
**Scope of Delivery: KL-0710-101 Set of Sleeves, Volvo Wishbone**

Part No.	Description	Qty
KL-0710-1001	Support Sleeve, 62mm	1
KL-0710-1002	Pressure Sleeve, 56mm	1
KL-0710-1003	Pressure Sleeve, 53mm	1
KL-0710-1004	Support Sleeve, 60mm	1
KL-0710-1005	Pressure Sleeve, 48mm	1

**Scope of Delivery: KL-0710-102 A Press Frame (Long Design) without Drive**

Part No.	Description	Qty
KL-0039-1144	Base Plate, 2¼"-14 UNS	1
KL-0039-1145	Base Plate, 2¼"-14 UNS, with Chamfer	1
KL-0039-1105	Adaptor, 2¼"-14 UNS to Ø 30mm, with O-Ring	1
KL-0039-1153	Frame Bar, M18, 375mm (long)	2
KL-0049-3004	Hex Nut, M18	4

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## KL-0711-11 L

### Pressing Device with Hydraulic Cylinder

**Designed for Volvo S40/V40, front axle wishbone.**

Allows for the quick and easy removal and replacement of suspension ball joints. The ball joints can be removed and installed in situ on the vehicle within just a few minutes, without having to dismount the wishbone. This tool enables even heavily corroded/seized ball joints to be pushed out and replaced quickly and without any trouble.

**Scope of Delivery: KL-0711-11 L Pressing Device with Hydraulic Cylinder**

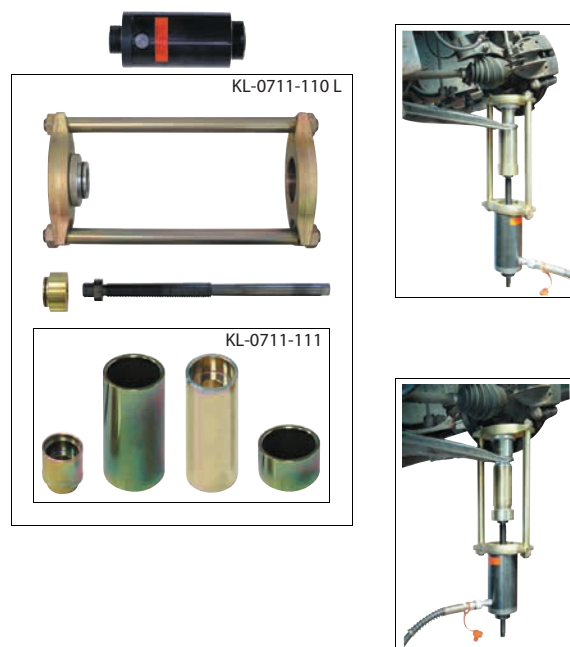
Part No.	Description	Qty
<b>KL-0711-110 L</b>	<b>Pressing Device without Hydraulic Cylinder, Volvo S40/V40</b>	<b>1</b>
KL-0040-2500	Hydraulic Cylinder, 17t	1

**Scope of Delivery: KL-0711-110 L Pressing Device without Hydraulic Cylinder**

Part No.	Description	Qty
KL-0039-1140	Press Frame, short	1
<b>KL-0711-111</b>	<b>Sleeve Set, Volvo S40/V40</b>	<b>1</b>
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1930	Pressure Spindle, M20x350mm, with O-Ring	1

**Scope of Delivery: KL-0711-111 Set of Sleeves, Volvo S40/V40**

Part No.	Description	Qty
KL-0711-1111	Pressure/Support Sleeve, short, Ø 38mm	1
KL-0039-1754	Pressure/Support Sleeve, long, Ø 54mm	1
KL-0039-1750	Pressure/Support Sleeve, long, Ø 50mm	1
KL-0039-1654	Pressure/Support Sleeve, short, Ø 54mm	1



## KL-0159-12

### Set of Pressure Pieces, with Storage Case

For extracting and inserting bearings, shafts, bushes etc. Used in conjunction with a hydraulic press, pullers or tools of the **KL-0039-910 H** and **KL-0039-930 H** tool sets. The set consists of one mandrel, one plug and 15 pressure pieces and is supplied in a plastic storage case.

#### Technical Data:

Mounting bore Ø:	20mm
Ø A:	52-80mm in 2mm gradation
Ø B:	50-78mm in 2mm gradation



## KL-0159-11

### Set of Pressure Pieces, with Storage Case

For extracting and inserting bearings, shafts, bushes etc. Used in conjunction with a hydraulic press or any hydraulic press tool set of the **KL-0039-.. Series**. The set consists of one mandrel, one plug and 15 pressure pieces and is supplied in a plastic storage case.

#### Technical Data:

Mounting bore Ø:	10mm
Ø A:	22-50mm in 2mm gradation
Ø B:	20-48mm in 2mm gradation



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## KL-0215-35 M25

### Hydraulic Hand Pump

The **KL-0215-35 M25** hydraulic hand pump is designed to be used as a drive for the hydraulic cylinders **KL-0040-2500** and **KL-0040-170**.

The hydraulic pressure and necessary force can be monitored while operating the pump at pressure gauge **KL-0040-2529** (supplied with the tool set). The pressure gauge features an additional tonne scale specifically adapted to our **KL-0040-2500** hydraulic cylinder (17t).

#### Technical Data:

Weight:	7.5kg
Max. pressure:	700bar

#### Note:

A hydraulic hand pump with pressure gauge precisely adapted to the hydraulic cylinder **KL-0040-2200** (10t) or **KL-0040-2800** (28t) available upon request.



#### Scope of Delivery:

##### KL-0215-35 M25 Hydraulic Hand Pump

Part No.	Description	Qty
KL-0215-33	Hydraulic Hand Pump (without hose)	1
KL-0215-31	Hydraulic Hose, 1.8m, with Hose-Side Connector	1
KL-0215-322	Cylinder-Side Connector, 1/4" NPT	1
KL-0040-2520	Adaptor, 3/8" NPT to 1/4" NPT	1
KL-0040-2529	Pressure Gauge	1

## KL-0215-35

### Hydraulic Hand Pump

Like the **KL-0215-35 M25**, however, without Pressure Gauge.



## KL-0215-37 M25 Hydraulic Foot Pump



The **KL-0215-37 M25** hydraulic foot pump is designed to drive our pressing and pulling devices with the **KL-0040-2500** hydraulic cylinder (17t). The hydraulic pressure and necessary force can be monitored while operating the pump at pressure gauge **KL-0040-2528** (supplied with the tool set). The pressure gauge features an additional tonne scale which is specifically adapted to our **KL-0040-2500** hydraulic cylinder (17t).

**Advantage:**

Both hands free to work.

**Technical Data:**

Weight:	11kg
Max. Pressure:	700bar

**Note:**

Hydraulic foot pump with pressure gauge, suitable for the hydraulic cylinder **KL-0040-2200 (10t)** or **KL-0040-2800 (28t)**, available upon request.

**Scope of Delivery:**

**KL-0215-37 M25 Hydraulic Foot Pump**

Part No.	Description	Qty
KL-0215-370	Hydraulic Foot Pump, without Hose	1
KL-0215-371	Hydraulic Hose, 2.5m, with Hose-Side Coupling	1
KL-0215-322	Cylinder-Side Coupling, 1/4" NPT	1
KL-0040-2520	Adaptor, 3/8" NPT to 1/4" NPT	1
KL-0040-2528	Pressure Gauge	1

## KL-0215-37 Hydraulic Foot Pump

Like the **KL-0215-37 M25**, however, without Pressure Gauge.

## KL-0215-36 M25 Hydraulic Pump (Pneumatic)



The pneumatic hydraulic pump **KL-0215-36 M25** is designed to be used as a drive for hydraulic cylinders.

Compressed air is used to power the hydraulic pump. The pump is operated by a foot pedal with 3 positions - for pumping, holding and releasing.

**Advantage:**

Both hands free to work.

**Technical Data:**

Maximum Pressure:	700bar
Operating Pressure:	8-12 bar
Weight:	8kg

**Scope of Delivery:**

**KL-0215-36 M25 Hydraulic Pump (Air-Driven )**

Part No.	Description	Qty
KL-0215-360	Hydraulic Pump (without Hose)	1
KL-0215-362	Hydraulic Hose, 2.5m, with Hose-Side Coupling	1
KL-0215-322	Cylinder-Side Coupling 1/4" NPT	1
KL-0040-2520	Adaptor 3/8" NPT to 1/4" NPT	1
KL-0040-2529	Pressure Gauge	1

## KL-0215-36 Hydraulic Pump (Pneumatic)

Like the **KL-0215-36 M25**, however, without Pressure Gauge.

# GEDORE WORKSHOP FURNITURE

Intelligently designed - dependable under extreme use

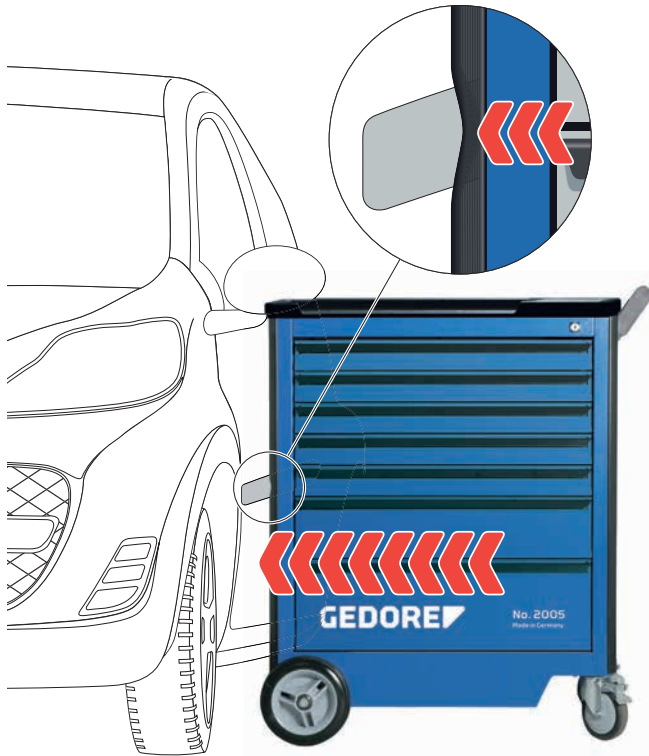


4

## Best-possible quality for the highest demands placed

- > Use of the most up-to-date machinery and environmentally-friendly production processes
- > The basis is tightly-controlled and choice sheet steel
- > Experienced and reliable specialists vouch for precision-like processing
- > Stringent quality checks after each production step ensure a constantly high level
- > Best-possible industrial quality for those extreme levels of constant use and conditions subjected to
- > Professional service up to the development of special customised tools
- > Vertical and horizontal forces are calculated with precision
- > Unloaded weight optimisation from a finely-tuned material input
- > Robust, stable 0.88 mm thick sheet steel structure, supporting elements of a 1.00 mm metal thickness, a 2.00 mm metal thickness for the heavy-duty chassis
- > Precision spot welding ensures components stay permanently fixed
- > Tool trolleys have it all with their special GEDORE chassis and GEDORE heavy-duty wheels
- > Durable and highly resilient with stability of the highest-order

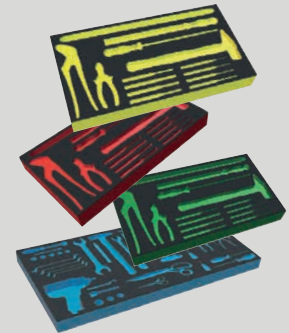
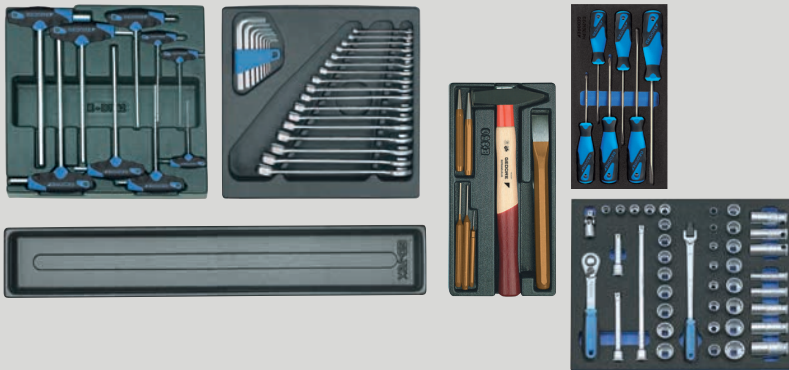
4



### Form and function perfection

- > Whether mobile or stationary: indispensable aids, in fact, for the rough-and-ready of workshop routine
- > Extremely robust, scratch and impact-resistant, corrosion-proof and easy to care for
- > Durable and highly resilient with stability of the highest-order
- > Numerous models to reflect use and individual requirements
- > Varied, optional accessories available for flexibly extending all the basic models
- > Specific colours (RAL) and outfits on request

## GEDORE INDIVIDUAL PRECISE - CUSTOMISED

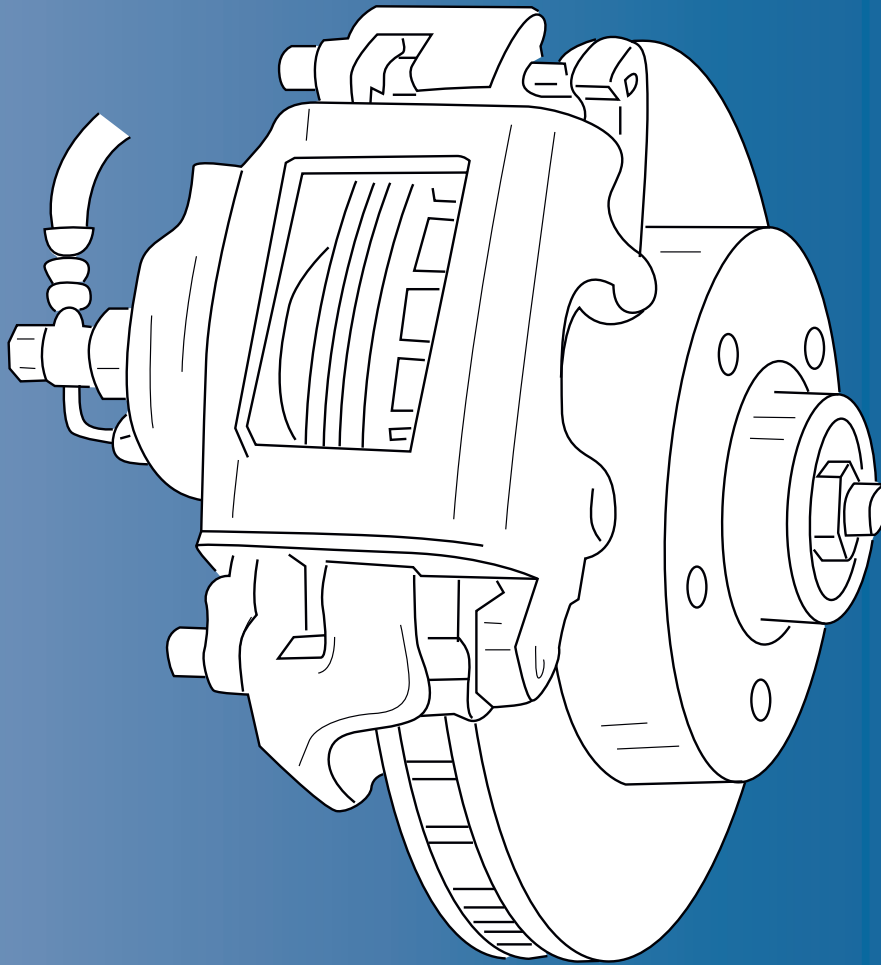


### Tidy look, uncluttered and always at hand

- > Ready to be used straight after delivery: simply unpack and screw on the manoeuvring handle
- > Whether a mobile or stationary guardian of tidiness: each tool has its own place here
- > Modular arrangement systems make daily routine that much easier (visual check/tool missing)
- > Compact tool assortments make selection easier
- > Customised equipment/tool sets in module systems and/or trolleys/benches in company design/colours

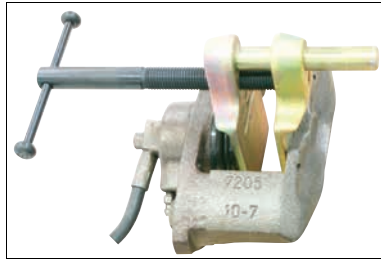
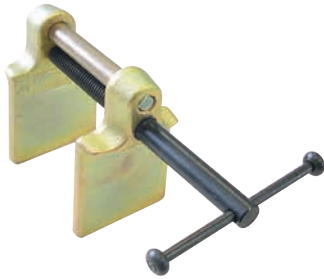
Why not create your perfection in tool orderliness in line with corporate design requests and your process specifications - We look forward to hearing from you!





## Brake Service/Repairs

5



## KL-0111-1

### Calliper Piston Reset Tool (Narrow Design)

**Universally applicable to virtually all vehicles.**

Intended for floating callipers with single piston and fixed callipers with two pistons. This tool allows the user to quickly and professionally reset the brake piston on brake calliper systems without the risk of damaging the junk ring or piston.

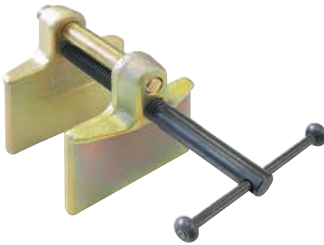
**Advantages:**

- No jamming of the piston during reset.
- Low expenditure of force needed - thanks to the precise guidance of the tool.
- High stability and resistance to wear and tear - thanks to the hardened plates and guide pins.
- High precision of the tool ensures easy use and long service life.

**Technical Data:**

Max length of tool:	260mm
Height of tool:	125mm
Usable height of the jaws:	75mm
Width of the jaws:	70mm
Min span:	13mm
Max span:	70mm

5



## KL-0111-2

### Calliper Piston Reset Tool (Wide Design)

**Universally applicable to almost all vehicles.**

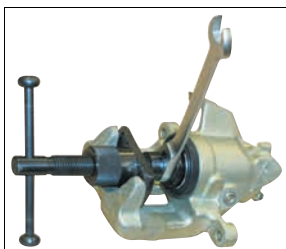
Intended for floating callipers with two pistons and for fixed callipers with four pistons. This tool allows the user to quickly and professionally reset the brake piston on brake calliper systems without the risk of damaging the junk ring or piston.

**Advantages:**

- No jamming of the piston during reset.
- Low expenditure of force needed - thanks to the precise guidance of the tool.
- High stability and resistance to wear and tear - thanks to the hardened plates and guide pins.
- High precision of the tool ensures easy use and long service life.

**Technical Data:**

Max length of tool:	260mm
Height of tool:	115mm
Usable height of the jaws:	65mm
Width of the jaws:	100mm
Min span:	13mm
Max span:	70mm



## KL-0112-2 A

### Brake Piston Push-Back/Wind-Back Kit, with 4 Adaptors, in a Storage Case

**Applicable to:** Alfa Romeo, Audi, Daihatsu, Fiat, Ford, Lancia, Jaguar, Mazda, Mini, Mitsubishi, Nissan, Opel/Vauxhall, Peugeot, Renault, Rover, Škoda, Seat, Subaru, Toyota, VW etc.

Universal push-back/wind-back kit for resetting (pushing or winding back, depending on application) brake pistons in floating callipers both with and without integrated parking brake mechanism. Can be used **on right-hand and left-hand threads**. Piston is wound back via the hexagon on the pressure piece.

**Scope of Delivery:** KL-0112-2 A Brake Piston Push-Back/Wind-Back Kit

Part No.	Description	Qty
KL-0112-2000	Brake Piston Push-Back/Wind-Back Kit (Basic Device)	1
KL-0112-0005	Adaptor, Size 2	1
KL-0112-0007	Adaptor, Size 1	1
KL-0112-0010	Adaptor, Size 10	1
KL-0112-0016	Adaptor, Size 16, Opel/Vauxhall Astra J	1
KL-0112-2290	Plastic Storage Case	1

## KL-0112-21 B

### Brake Piston Push-Back/Wind-Back Kit, with 10 Adaptors, Storage Case

**Applicable to: Audi, BMW, Citroën, Fiat, Ford, Honda, Mazda, Mitsubishi, Nissan, Opel/Vauxhall, Peugeot, Renault, Seat, Škoda, Subaru, Toyota, VW, etc.**

Designed to reset (wind back or push back depending on application) brake pistons in floating callipers, both with or without mechanical parking brake mechanism. Can be used on **right-hand threads as well as on left-hand threads**. The piston is wound back via the hexagon on the pressure piece.

**The universal brake piston push-back/wind-back kit KL-0112-21 B stands out for the following features:**

Its spindle with handy toggle and a built-in thrust bearing for secure retention of the adaptors.

The spindle enables the controlled reset of the brake piston and correct guidance of the adaptor thanks to the handy toggle. The thrust bearing ensures that the adaptors are securely held in the tool and, thus, professional reset of the brake piston without any risk of damage. The base tool is only intended to position and fix the adaptor during the winding-back process. The reset takes place via the hexagon on the respective adaptor. This technique eliminates the risk of damaging the brake piston spindle and prevents the reset tool from jamming which could be caused by different spindle pitches in the tool and calliper.

**Universally applicable to brake systems that need to be reset mechanically.**

(A tool for all kinds of brake-resetting techniques)

Resetting brake pistons --- with left-hand thread --- with right-hand thread --- if the piston should not be rotated during the reset process. The adaptors are specifically designed for the respective brake piston application (in profile and outer Ø). This prevents damage to the piston and junk ring while resetting the brake piston. Possibility to update this tool set with additional and specifically designed adaptors for the latest vehicles and braking systems. With this tool kit you are always well-equipped for the current, latest and upcoming vehicle models.

Low overall height, no intermediate adaptors necessary.

All components are individually available as spare parts.

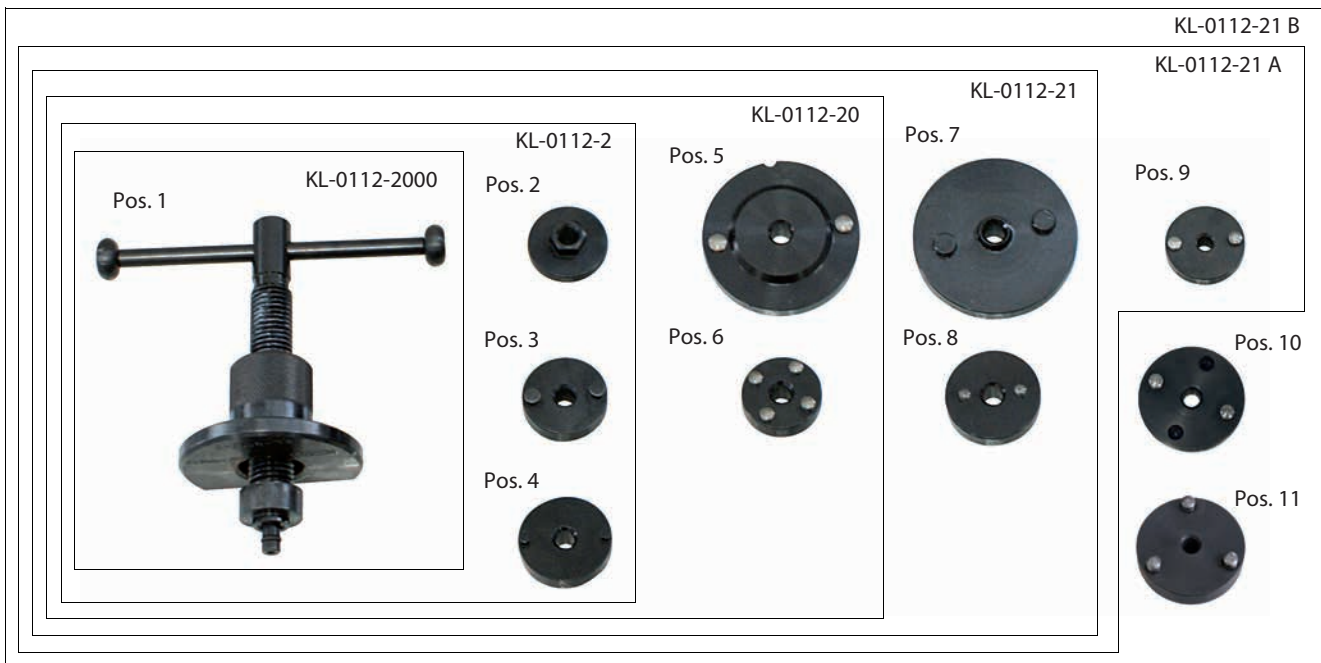


#### Scope of Delivery:

#### KL-0112-21 B Brake Piston Push-Back/Wind-Back Kit

Part No.	Description	Pos.	Qty
KL-0112-2000	Brake Piston Push-Back/Wind-Back Kit (Basic Device)	1	1
KL-0112-0005	Adaptor, Size 2	2	1
KL-0112-0007	Adaptor, Size 1	3	1
KL-0112-0006	Adaptor, Size 6 (12mm hex socket for VW/Audi)	4	1
KL-0112-0008	Adaptor, Size 8 for Citroën XM/BX	5	1
KL-0112-0009	Adaptor, Size 9 for Honda/Saab	6	1
KL-0112-0010	Adaptor, Size 10 for Renault R21 a. Laguna	8	1
KL-0112-0013	Adaptor, Size 13 for Citroën C5	7	1
KL-0112-0015	Adaptor, Size 15 for Peugeot 207, 307, 308	9	1
KL-0112-0016	Adaptor, Size 16 for Astra J	10	1
KL-0112-0017	Adaptor, Size 17 for BMW	11	1
KL-0112-2290	Plastic Storage Case	-	1

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#### Accessories (on demand):

1 B - Combination Spanner UD-Profil



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Make	Model	Part-No.
Alfa Romeo	147 (190)	2000 - 2011 KL-0112-0005
	156 (116)	1997 - 2006 KL-0112-0005
	159 (140)	2005 - 2012 KL-0112-0005
Audi	A1 (8X)	2010 - ... KL-0112-0005
	A2 (8Z)	2000 - 2005 KL-0112-0005
	A3 (8L)	1997 - 2003 KL-0112-0005
	A3 (8P)	2003 - 2013 KL-0112-0005
	A4 (8D)	1994 - 2001 KL-0112-0005
	A4 (8E)	2001 - 2005 KL-0112-0005
	A4 (8H)	2005 - 2009 KL-0112-0005
	A6 (4B)	1997 - 2004 KL-0112-0005
	A8 (4D)	1994 - 2003 KL-0112-0005
	TT (8N)	1999 - 2006 KL-0112-0005
	TT (8J)	2006 - 2014 KL-0112-0005
	Electronic parking brake	2005 - ... KL-0112-0005*
	Citroën	C3 (A51)
C4 Picasso (B58)		2006 - 2013 KL-0112-0005
C5 (X3, X4)		2001 - 2008 KL-0112-0013
C5 (X7)		2008 - ... KL-0112-0010
C6 (X6)		2006 - 2012 KL-0112-0005
Fiat		500 (150)
	500L (330)	2013 - ... KL-0112-0016
	Barchetta (183)	1995 - 2005 KL-0112-0007
	Brava (182)	1995 - 2001 KL-0112-0007
	Bravo (182)	1995 - 2001 KL-0112-0007
	Bravo (198)	2007 - 2014 KL-0112-0005
	Coupé (175)	1994 - 2002 KL-0112-0007
	Croma (195)	2005 - 2012 KL-0122-0005
	Freemont (345)	2011 - ... KL-0122-0005
	Marea (185)	1996 - 2002 KL-0112-0007
	Punto (199)	2009 - ... KL-0112-0005
	Scudo (272)	2007 - ... KL-0112-0005
	Stilo (192)	2001 - 2008 KL-0112-0005
	Ulysse (179)	2002 - 2011 KL-0112-0005
	Ford	C-Max (22)
Focus (19)		1998 - 2005 KL-0112-0005
Focus Turnier (19)		1998 - 2005 KL-0112-0005
Focus (23)		2004 - 2012 KL-0112-0010
Focus (25)		2011 - ... KL-0112-0005
Galaxy (54)		2006 - ... KL-0112-0005
Kuga (46)		2008 - 2013 KL-0112-0005
Mondeo (36)		1996 - 2000 KL-0112-0005
Mondeo (38)		2000 - 2007 KL-0112-0007
Mondeo (39)		2007 - 2014 KL-0112-0005
Mustang		2015 - ... KL-0112-0005
S-Max (53)		2006 - ... KL-0112-0005
Tourneo / Transit (27/83)		2013 - ... KL-0112-0010
Transit T330 Rear-wheel drive		KL-0112-0005 / KL-0112-0007
Honda	Civic (EM, EP, ES, EU, EV)	2001 - 2006 KL-0112-0009
	Civic (FN, FK)	2006 - 2011 KL-0112-0009
Jaguar	S-Type (X200)	1999 - 2008 KL-0112-0005
	X-Type (X400)	2001 - 2010 KL-0112-0005
	XF-Type (X250)	2008 - ... KL-0112-0005
	XJ-Type (X350)	2003 - 2009 KL-0112-0005
	XJ-Type (351)	2009 - ... KL-0112-0005
	XK-Type (X100)	1996 - 2006 KL-0112-0005
	XK-Type (X150)	2006 - 2014 KL-0112-0005
KIA	Picanto	2004 - 2012 KL-0112-0005
Lancia	Kappa (107, 108)	1995 - 2000 KL-0112-0005
Mazda	3 (BK)	2003 - 2010 KL-0112-0007
	3 (BL)	2009 - 2013 KL-0112-0007
	5 (CR)	2005 - 2011 KL-0112-0010
	6 (GH)	2007 - 2012 KL-0112-0010
	Premacy (CP)	1999 - 2005 KL-0112-0007
Mercedes	Citan (W415)	2012 - ... KL-0112-0005
Mini	One (R50)	2001 - 2007 KL-0112-0010
	One (R56)	2006 - 2013 KL-0112-0007

Make	Model	Part-No.	
Mitsubishi	ASX (GA)	2010 - ... KL-0112-0006	
	Carisma (DA)	1995 - 2004 KL-0112-0005	
	Space-Star (DG)	1998 - 2006 KL-0112-0005	
Nissan	Primera (P12)	2001 - 2008 KL-0112-0010	
Opel/ Vauxhall	Astra G (T98)	1998 - 2005 KL-0112-0005 (Bosch Sattel)	
	Astra G (T98)	1998 - 2005 KL-0112-0010 (Lukas Sattel)	
	Astra H (A04)	2004 - 2010 KL-0112-0005 (Bosch Sattel)	
	Astra H (A04)	2004 - 2010 KL-0112-0010 (Lukas Sattel)	
	Astra J (P10)	2010 - ... KL-0112-0016	
	Meriva A (X03)	2003 - 2010 KL-0112-0005 (Bosch Sattel)	
	Meriva A (X03)	2003 - 2010 KL-0112-0010 (Lukas Sattel)	
	Meriva B (S10)	2010 - ... KL-0112-0016	
	Mokka	2012 - ... KL-0112-0016	
	Movano (X70)	1999 - 2011 KL-0112-0005 (Bosch Sattel)	
	Signum A (Z03)	2003 - 2009 KL-0112-0010 (Lukas Sattel)	
	Vectra B (J96)	1995 - 2001 KL-0112-0010 (Lukas Sattel)	
	Vectra C (Z02)	2002 - 2009 KL-0112-0005 (Bosch Sattel)	
Vectra C (Z02)	2002 - 2009 KL-0112-0010 (Lukas Sattel)		
Zafira A (T98)	1999 - 2005 KL-0112-0005 (Bosch Sattel)		
Zafira A (T98)	1999 - 2005 KL-0112-0010 (Lukas Sattel)		
Zafira B (A05)	2005 - ... KL-0112-0010 (Lukas Sattel)		
Peugeot	207	2006 - 2014 KL-0112-0005	
	307	2001 - 2010 KL-0112-0005	
	308	2007 - 2013 KL-0112-0005	
	407	2004 - 2012 KL-0112-0005	
	5008	2009 - ... KL-0112-0005	
	508	2010 - ... KL-0112-0016	
	Renault	Espace (J81)	2002 - ... KL-0112-0010
Laguna (B/K/S56)		1994 - 2001 KL-0112-0010	
Laguna (B74, K74)		2001 - 2008 KL-0112-0010	
Master (E/H/F/J/U70)		1998 - 2011 KL-0112-0005	
Megane (B/E/L/C/K/G/S84)		2002 - 2010 KL-0112-0005	
Modus (J77, F77)		2004 - 2012 KL-0112-0007	
Scenic (J84)		2003 - 2010 KL-0112-0007	
Traffic (E/F/J83)		2001 - ... KL-0112-0005	
Twingo (C44, G44)		2007 - 2014 KL-0112-0005	
Seat		Alhambra (7V)	1995 - 2010 KL-0112-0005
	Altea (5P)	2004 - ... KL-0112-0005	
	Exeo (3R)	2009 - 2013 KL-0112-0005	
	Leon (1P)	2006 - 2013 KL-0112-0005	
	Leon (5F)	2013 - ... KL-0112-0005	
	Toledo (1M)	1999 - 2005 KL-0112-0005	
	Toledo (5P)	2005 - 2010 KL-0112-0005	
	Electronic parking brake	2005 - ... KL-0112-0005*	
	Škoda	Fabia (6Y)	2000 - 2007 KL-0112-0005
Fabia (54)		2007 - 2015 KL-0112-0005	
Octavia (1U)		1996 - 2011 KL-0112-0005	
Octavia (1Z)		2004 - 2013 KL-0112-0005	
Roomster (5J)		2006 - ... KL-0112-0005	
Superb (3T)		2008 - ... KL-0112-0005	
Yeti (5L)		2009 - ... KL-0112-0005	
Electronic parking brake		2005 - ... KL-0112-0005*	
Smart		ForFour (W454)	2004 - 2006 KL-0112-0007 / KL-0112-0009
Toyota		Yaris	1999 - 2006 KL-0112-0010
	Yaris	2005 - 2011 KL-0112-0010	
Volvo	S40 / V50 (544/545)	2004 - 2012 KL-0112-0010	
VW	Golf (1J)	1997 - 2006 KL-0112-0005	
	Golf (5K, AJ)	2009 - 2014 KL-0112-0005	
	Scirocco (137, 138)	2008 - ... KL-0112-0005	
	Sharan (7M)	1995 - 2010 KL-0112-0005	
	T4 (7D)	1991 - 2003 KL-0112-0005	
	T5 (7J/H/E/F)	2004 - ... KL-0112-0005	
	Touran (1T, 9R)	2003 - ... KL-0112-0005	
	Electronic parking brake	2005 - ... KL-0112-0005*	

\* Turn adaptor (noses point towards base tool)

## KL-0112-22 K Brake Piston Push-Back/Wind-Back Kit

**Suitable for IVECO Daily I, II and III with Twin Wheel Axle.**

For resetting the brake piston on rear axle braking systems.  
The piston is wound back by turning the hexagon on the pressure piece.

**Note:**  
The modular system enables easy upgrade of the kit with additional adaptors from the **KL-0112-.. Series**, thus allowing for a wider range of vehicle applications.

**Technical Data:**

Working travel max.:	65mm
Weight:	822g

**Scope of Delivery:**

**KL-0112-22 K Brake Piston Push-Back/Wind-Back Kit**

Part No.	Description	Qty
KL-0112-2000	Brake Piston Push-Back/Wind-Back Kit (Basic Device)	1
KL-0112-0014	Adaptor, Size 14 for IVECO Daily	1
KL-0112-2201	Support Plate	1
KL-0112-2290	Plastic Storage Case	1



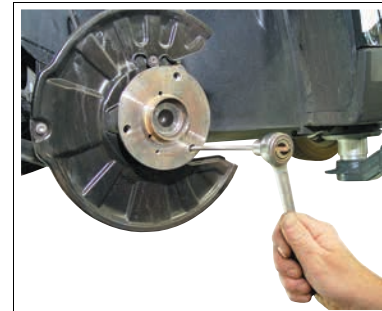
## KL-4041-2430 Screwdriver Bit Socket Torx® T30, 200mm, 3/8"

**Suitable for Smart fortwo (model 2007 onwards) front axle.**

This tool is required for the removal and installation of brake backing plates on steering knuckles.

**Technical Data:**

Drive:	3/8"
Size:	Torx T30
Length:	200mm



## KL-0232-90 Bit Socket, Size (waf) 8mm

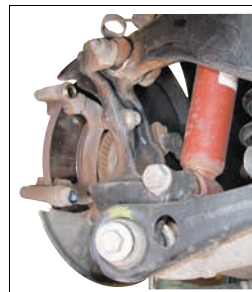
**Suitable for Audi A4 models from 2001 onwards.**

This tool is intended for the removal and installation of rear brake calliper carriers.

**Technical Data:**

Size:	8mm
Drive:	3/8"
Length:	24mm

**Note:**  
The professional removal and installation of rear brake calliper carriers/the lower fastening screw is almost impossible without this very short **KL-0232-90** bit socket.



**Accessories (on demand):**

**1993 U-20** CODE:1436686 - Reversible ratchet



**1 B - Combination Spanner UD-Profil**







## KL-4021-3107

Screwdriver Bit Socket,  
Size (waf) 7mm, 100mm, 1/2"

**Suitable for shock absorber piston rods and brake calliper fastening screws on VW-Audi etc.**

Intended for hexagon socket screws.

**Technical Data:**

Size:	7mm hex
Drive:	1/2"
Overall length:	100mm
Weight:	100g

**Accessories (on demand):**

**1993 U-20** CODE:1436686 - Reversible ratchet



## KL-4021-3307

Screwdriver Bit Socket,  
Size (waf) 7mm, 140mm, 1/2"

**Suitable for shock absorber piston rods and brake calliper fastening screws on VW-Audi etc.**

Intended for hexagon socket screws.

**Technical Data:**

Size:	7mm hex
Drive:	1/2"
Overall length:	140mm
Weight:	125g

5

1/2"



## KL-4021-3109

Screwdriver Bit Socket,  
Size (waf) 9mm, 100mm, 1/2"

**Suitable for BMW X5 (E70), X6 (E71/E72), Gran Turismo (F07), 5 Series (F10); Volvo XC60; Mercedes W164, W251.**

The **KL-4021-3109** screwdriver bit socket is needed for the loosening and tightening of brake calliper fastening screws.

**Technical Data:**

Size (waf):	9mm
Length:	100mm
Drive:	1/2"



1/2"



## KL-4021-3111

Screwdriver Bit Socket,  
Size (waf) 11mm, 100mm, 1/2"

**Applicable to Mercedes W166.**

The **KL-4021-3111** screwdriver bit socket is needed for the loosening and tightening of brake calliper fastening screws.

**Technical Data:**

Size:	11mm
Profile:	Hex
Drive:	1/2"
Length:	100mm



## KL-4031-3016

Screwdriver Bit Socket, M16

**Suitable for VW Touareg.**

The **KL-4031-3016** screwdriver bit socket is needed for the loosening and tightening of brake calliper fastening screws.

## KL-0461-10 Pentagon Socket, Opel/Vauxhall

Suitable for the lower brake calliper fastening screw on Smart Fortwo (front axle), and brake callipers on Opel/Vauxhall Astra G, Zafira (rear axle).

Smart: For the removal and installation of the brake calliper on the front axle.  
Opel/Vauxhall: For the removal and installation of the guide pin in case it is corroded and the floating calliper is no longer free to slide on the pin. Can also be used to remove the calliper piston.

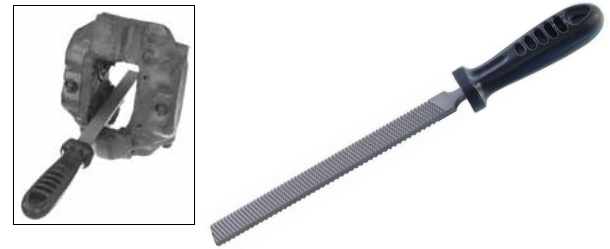


### Technical Data:

Size:	14mm
Drive:	1/2"

## KL-0114-7 Brake Calliper File

For cleaning brake callipers before installing new brake pads. The file features one rough, diagonally milled side with bevelled edges. File blade dimensions: 125x13x5mm.



### Technical Data:

Length:	220mm
Weight:	85g

## KL-0114-8 Brake Calliper Brush (Steel)

For cleaning brake callipers before installing new brake pads.



### Technical Data:

Length:	220mm
Weight:	60g

## KL-0114-81 Brass-Wire Brush (Ultra Slim Design)

For cleaning sensitive control units, contacts, engine and brake parts, etc.



### Technical Data:

Length:	220mm
Width:	11.7mm
Weight:	60g

## KL-0192-7 Circlip Pliers (angled 90°)

For brake callipers and gearboxes, angled 90°.

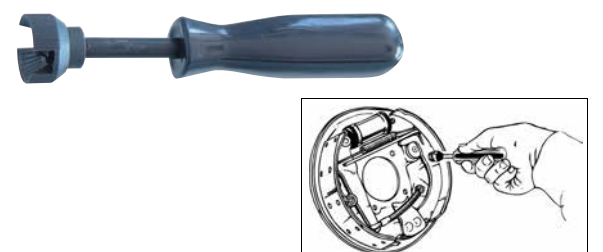


### Technical Data:

Length:	190mm
Leg length:	60mm

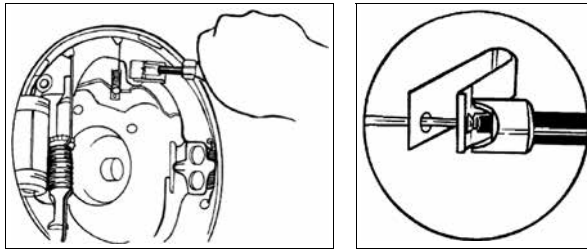
## KL-0114-41 Brake Spring Tool

This tool is intended for the removal and installation of the brake shoe retaining spring on drum brakes. Allows the user to quickly, professionally and safely remove and install brake spring plates for brake spring plate Ø of 13.5-23mm.



### Technical Data:

Length:	155mm
Weight:	95g



## KL-0114-42 Brake Spring Tool

**Suitable for European vehicles with brake shoe retaining clips.**

To release the retaining clip, insert the tool tip into the groove, and rotate the handle 90° to allow the clip to be released from the pin.

**Technical Data:**

Weight:	115g
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## KL-0314-1 Brake Spring Tool, Mercedes

**Applicable for Mercedes etc.**

For the removal and installation of parking brake shoe retaining springs. Suitable for both conical and cylindrical retaining springs.

**Technical Data:**

Length:	145mm
Weight:	110g

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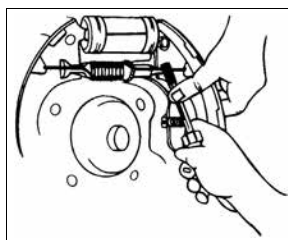


## KL-0114-2 Brake Spring Pliers

With flexible jaw.  
For riveted and bonded brake linings.

**Technical Data:**

Length:	317mm
Weight:	340g



## KL-0114-9 Brake Spring Tool

Designed to remove and install return springs on drum brakes. The return spring is engaged into the hook head of the tool and locked by turning the handle. The installation happens by pulling the spring with the tool into the correct position.

**Technical Data:**

Length:	220mm
Weight:	85g



## KL-0114-21 Brake Spring Assembly Hook

**Universal application.**

Designed to remove and install return springs on drum brake systems.

**Technical Data:**

Length:	150mm
Weight:	100g

## KL-4013-2310

### Parking Brake Cable Adjuster Socket

Universally applicable to parking brake cable adjusters from VW-Audi, Seat, Skoda, Opel/Vauxhall, Ford and BMW, with a size of 10mm (waf).

For example, fitted to VW Polo, Golf, Passat; Audi A3, A4, A6, TT; Opel/Vauxhall Adam, Corsa, Astra, Vectra; Ford Fiesta, Focus, Mondeo; BMW 1 Series, 3 Series etc.

Designed to adjust/readjust the parking brake lever travel on parking brake cable adjusters. The long design of the socket featuring a through hole, also allows parking brake cable adjusters with a long threaded shank to be adjusted with ease.



#### Technical Data:

Drive:	3/8"
Size (waf):	10mm
Shank length:	100mm
Overall length:	120mm

## KL-0114-990

### Set of Abrasive Sleeve Holders with Abrasive Sleeves

These holders with abrasive sleeves are ideal for the quick and easy removal of rust, corrosion and dirt from inner bores. e.g.: bores in floating brake calipers, or mounting bore for ABS Sensors, etc.

Drive can be taken from a hand drill, either directly or with the aid of a flexible shaft.

#### Scope of Delivery: KL-0114-990 Set of Abrasive Sleeve Holders

Part No.	Description	Qty
KL-0114-91	Abrasive sleeve holder with 50 abrasive sleeves for Ø 16mm	1
KL-0114-92	Abrasive sleeve holder with 50 abrasive sleeves for Ø 18mm	1
KL-0114-93	Abrasive sleeve holder with 50 abrasive sleeves for Ø 22mm	1

#### Scope of Delivery: KL-0114-91 Abrasive Sleeve Holder with 50 Abrasive Sleeves

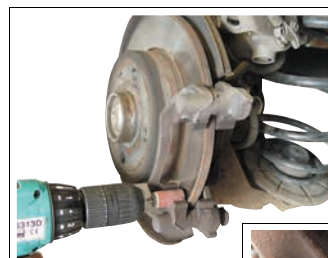
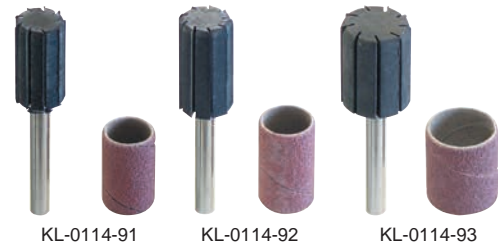
Part No.	Description	Qty
KL-0114-910	Abrasive sleeve holder for Ø 16mm	1
KL-0114-911	Abrasive Sleeve set 80 grit for Ø 16mm (50 pieces)	1

#### Scope of Delivery: KL-0114-92 Abrasive Sleeve Holder with 50 Abrasive Sleeves

Part No.	Description	Qty
KL-0114-920	Abrasive sleeve holder for Ø 18mm	1
KL-0114-921	Abrasive sleeve set 80 grit Ø 18mm (50 pieces)	1

#### Scope of Delivery: KL-0114-93 Abrasive Sleeve Holder with 50 Abrasive Sleeves

Part No.	Description	Qty
KL-0114-930	Abrasive sleeve holder for Ø 22mm	1
KL-0114-931	Abrasive Sleeve set 80 grit for 22mm (50 pieces)	1



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## KL-0114-89 K

### Cleaning Tool Set for ABS Sensor

Universally suitable for ABS sensor mounting bores with hole diameters of 10mm, 14mm, 15mm or 18mm; for example:

- Bore hole Ø 10mm: VW Lupo, Passat, T5; Audi A2, A4 from 2001 onwards;
- Bore hole Ø 14mm: BMW E38; Mercedes C-Class (W202, W203), E-Class (W124, W210), S-Class (W140);
- Bore hole Ø 15mm: Mercedes; Ford; Daewoo;
- Bore hole Ø 18mm: Audi A4 until 2001; BMW E36; Mercedes W163; Peugeot Boxer; Renault Clio; VW Golf.

The KL-0114-89 K cleaning tool set allows for the quick, trouble-free and professional cleaning of ABS sensor mounting bores. The fine-toothed swivel head ratchet included in the set enables professional cleaning even in very confined spaces.

#### Scope of Delivery: KL-0114-89 K Cleaning Tool Set for ABS Sensor

Part No.	Description	Qty
KL-0114-891	Swivel Head Ratchet, 1/4"	1
KL-0114-8921	Drill, Ø 10mm	1
KL-0114-8931	Reamer, Ø 10x150mm	1
KL-0114-8941	Reaming Head, Ø 14x32mm	1
KL-0114-8942	Reaming Head, Ø 15x23mm	1
KL-0114-8943	Reaming Head, Ø 18x23mm	1
KL-0114-8944	Reaming Head, Ø 18x34mm	1
KL-0114-8990	Plastic Storage Case	1



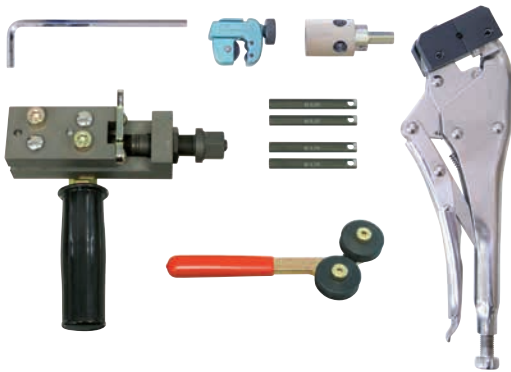


## KL-0117-2 KA (Pat. e.g. US-Patented 6,966,210) Brake Pipe Flaring Tool Kit, with Interchangeable Inserts (Ø 4.75mm and Ø 5.25mm), Peeling Tool, Gripping Pliers

**Suitable for the steel, aluminum and copper brake pipes with a pipe Ø of 4.75mm, as well as for the plastic-coated brake pipes used on VW-Audi, Seat, Skoda vehicles with a brake pipe diameter of 5.25mm, as well as for those used on Opel/Vauxhall having a pipe diameter of 5.14mm.**

This specially designed tool allows flares to be created according to DIN Standard F on a brake pipe in a vice. It also enables the section repair of a brake pipe to be performed directly on the vehicle (for example after a rear-end collision). No need for removing and reinstalling the power train (engine/gearbox) when this tool is used. The interchangeable clamping jaws with a clamping surface of approximately 65mm ensure the safe retention of the brake pipe without any risk of damaging it.

Delivery:



### Application:

- Detach the brake pipe with the pipe cutter.
- Peel away the plastic coating to a determined length while deburring the brake pipe at the same time.
- Press flare F (acc. to DIN standard) onto brake pipe.
- Bend the brake pipe into the correct shape if necessary.

### Advantages:

- The brake pipe is securely held in the flaring tool without the risk of deforming the pipe, thanks to the interchangeable clamping jaw inserts.
- Flares are created accurately according to DIN Standard F.
- Ball-bearing-mounted pressure piece.
- Limit stop for accurate length, thus giving exact material specification for the flare.
- Ergonomic handle for flaring directly on the vehicle.
- Built-in holder for clamping into a vice.
- Substantial time and cost savings.
- All components are individually available as spare parts.

### Technical Data:

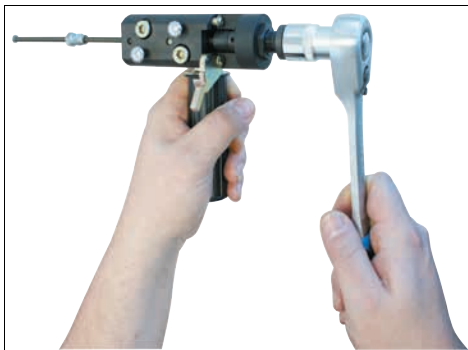
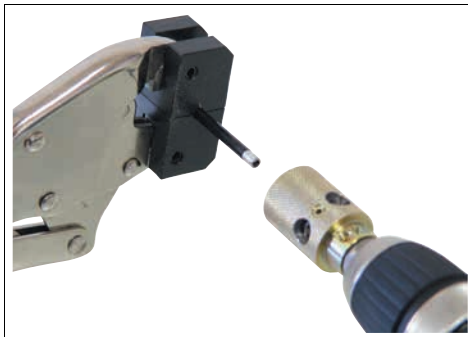
Weight:	3.5kg
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### Scope of Delivery:

**KL-0117-2 KA Brake Pipe Flaring Tool Kit, with Interchangeable Inserts (Ø 4.75mm and Ø 5.25mm), Peeling Tool, Gripping Pliers**

Part No.	Description	Qty
KL-0117-20 A	Brake Pipe Flaring Tool, with Interchangeable Inserts (Ø 4.75mm and Ø 5.25mm)	1
KL-0117-21	Brake Pipe Peeling Tool	1
KL-0117-22	Gripping Pliers with Plastic Clamping Jaws	1
KL-0117-23	Pipe Bending Tool	1
231000	Pipe Cutter 'mini-quick'	1
KL-0117-29	Plastic Storage Case with Insert	1

Application:



### Accessories (on demand):

**1993 U-20 CODE:1436686 - Reversible ratchet**



## KL-0117-2 KB

### Brake Pipe Flaring Tool Kit, with Interchangeable Insert (Ø 4.75mm)

Suitable for steel, aluminum and copper brake pipes with a pipe Ø of 4.75mm.

For description, see **KL-0117-2 KA**.

The **KL-0117-206** upgrade kit allows you to use the flaring tool also on the plastic-coated brake pipes (Ø 5.25mm) on VW-Audi, Seat, Škoda vehicles.

#### Scope of Delivery:

**KL-0117-2 KB Brake Pipe Flaring Tool Kit with Interchangeable Insert (Ø 4.75mm)**

Part No.	Description	Qty
KL-0117-20 B	Brake Pipe Flaring Tool with Interchangeable Insert (Ø 4.75mm)	1
KL-0117-23	Pipe Bending Tool	1
231000	Pipe Cutter 'mini-quick'	1
KL-0117-29	Plastic Storage Case with Insert	1



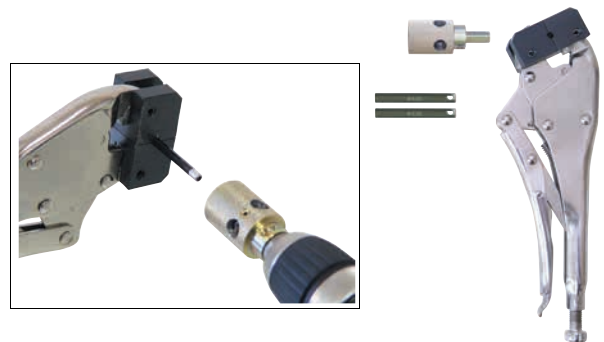
## KL-0117-206

### Upgrade Kit, (to Pipe Ø 5.25mm)

The **KL-0117-206** upgrade kit enables the brake pipe flaring tool **KL-0117-2 KB** also to be used for the plastic-coated brake pipes found on VW-Audi, Seat, Škoda vehicles with an overall brake pipe diameter of 5.25mm.

#### Scope of Delivery: KL-0117-206 Upgrade Kit (to Pipe Ø 5.25mm)

Part No.	Description	Qty
KL-0117-2052	Inserts (pair) Ø 5.25mm, interchangeable	1
KL-0117-21	Brake pipe-peeling tool	1
KL-0117-22	Gripping pliers with plastic clamping jaws	1



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## KL-0117-2 KC (Pat. e.g. US-Patented 6,966,210)

### Brake Pipe Flaring Tool Kit, with Interchangeable Insert (Ø 5.25mm), Peeling Tool, and Gripping Pliers

Suitable for the plastic-coated brake pipes used on VW-Audi, Seat and Škoda vehicles with a pipe Ø of 5.25mm.

This specially designed tool kit allows flares to be created according to DIN Standard F on a brake pipe in the vice. It also enables the section repair of a brake pipe to be performed directly on the vehicle (for example after a rear-end collision). For this, the interchangeable inserts Ø 4.75mm **KL-0117-2051** are necessary.

No need for removing and reinstalling the power train (engine/gearbox) when this tool is used.

The interchangeable clamping jaw inserts with a clamping surface of approximately 65mm ensure the safe retention of the brake pipe without any risk of damaging it.

#### Scope of Delivery: KL-0117-2 KC Brake Pipe Flaring Tool Kit, with Interchangeable Insert (Ø 5.25mm), Peeling Tool, and Gripping Pliers

Part No.	Description	Qty
KL-0117-20 C	Brake Pipe Flaring Tool, with Interchangeable Insert (Ø 5.25mm)	1
KL-0117-21	Brake Pipe Peeling Tool	1
KL-0117-22	Gripping Pliers with Plastic Clamping Jaws	1
KL-0117-23	Pipe Bending Tool	1
231000	Pipe Cutter 'mini-quick'	1
KL-0117-29	Plastic Storage Case with Insert	1



## KL-0117-2051

### Inserts (Pair) Ø 4.75mm (Interchangeable)





DIN Standard E  
Double Flare



**Technical Data:**

Drive:	19mm
Length:	85mm
Weight:	170g

## KL-0117-25

### Set of Pressure Pieces for Double Flares to DIN Standard E

This tool set is designed to enable a flare to be produced quickly and accurately according to DIN Standard E. It is used with Brake Pipe-Flaring Tool Kit **KL-0117-20 A**.

**Scope of Delivery: KL-0117-25 Set of Pressure Pieces**

Part No.	Description	Qty
KL-0117-2501	Pressure Screw	1
KL-0117-251	Pressure Piece 1	1
KL-0117-252	Pressure Piece 2	1

## KL-0117-251 Pressure Piece 1

Used for pre-flaring in order to produce a flare according to DIN Standard E.

**Technical Data:**

Length:	80.5mm
Weight:	50g



## KL-0117-252 Pressure Piece 2

Used to finish the creation of a flare according to DIN Standard E.

**Technical Data:**

Length:	85mm
Weight:	40g



## 234001 CODE 4505530 Dual Beading Tool

For 4.75-10 mm diameter metric-size pipes, complete in sheet steel case, for brake lines, refrigerant lines, hydraulic and pneumatic pipes with a wall thickness between 0.7 and 1.0 mm. GTW tempered cast body, stove-enamelled in blue, phosphatised steel jaws.

Also available as a set for metric size pipes and inch size pipes (No. 234 013) or for inch-size pipes only (No. 234 002).

## 231000 CODE 4504560

### Miniature Pipe Cutter MINI-QUICK

With tool body in pressure-cast zinc, stove enamelled blue, cutting wheel in chrome-alloyed stainless steel. For Ø of 4-16 mm O.D. tubing.

Especially suitable for barely-accessible places.



## KL-0117-24

### Inside Deburrer for Brake Lines

**Universally suitable for steel, aluminium and copper brake lines with a pipe Ø of from 2-13mm.**

Designed for the quick and easy inside deburring of pipes.

**Technical Data:**

Length:	115mm
Pipeline diameter (inner):	Ø 2-13mm
Weight:	60g

## KL-0117-51 Pipe Bending Pliers

Suitable for copper pipes DIN-EN 1057, non-ferrous metal pipes as well as thin-walled precision steel pipes and brake lines with Ø of from 4.75 to 10mm, (two turnable formers 4.75-6.0mm and 8.0-10.0mm).

Indispensable for the quick and professional bending of brake pipes. Bending up to 90° possible.

### Technical Data:

Weight:	530g
Length:	260mm
Pipe diameter:	4.75-10.0mm



## KL-0117-23 Pipe Bending Tool

Universally suitable for brake pipes made of steel, aluminium or copper with a pipe diameter of from 4.75mm to 6.0mm.

The compact and handy shape of the tool enables the easy and trouble-free bending of brake pipes even in very confined spaces.

### Technical Data:

Pipe diameter:	Ø 4.75 to 6mm
Radius of bend:	15mm
Length:	175mm
Weight:	200g



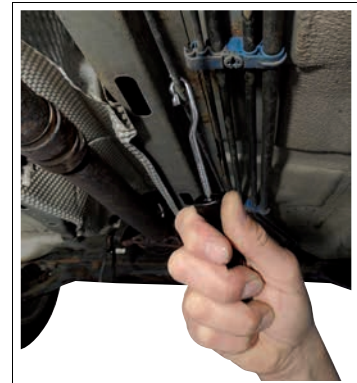
## KL-0117-61 Brake Pipe Corrosion Detection Tool

### Universal application.

The tool features three scraper areas which allow for the efficient cleaning as well as easy inspection of brake pipes for corrosion and dirt - even in places that are difficult to access.

### Technical Data:

Length:	approx. 175mm
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## KL-0121-61 K Universal Line Clamp Set

Universally suitable for brake, fuel, hydraulic and power steering lines with 5/16", 3/8", 1/2" union nuts and banjo fittings.

Used to seal off opened line connections on brake, fuel, hydraulic and power steering line systems. The universal line clamps are designed to help you prevent any leakage of automotive fluids from opened lines, thus eliminating the risk of contamination of the workplace.

### Scope of Delivery:

#### KL-0121-61 K Universal Line Clamp Set

Part No.	Description	Qty
KL-0121-611	Line Clamp, 5/16"	1
KL-0121-612	Line Clamp, 3/8"	1
KL-0121-613	Line Clamp, 1/2"	1
KL-0121-614	Line Clamp	1
KL-0121-6190	Plastic Storage Case	1



### Technical Data:

Size:	5/16", 3/8", 1/2", Banjo-Fitting
Length:	109mm







## KL-0114-13

### Double-Ended Ring Spanner Set (hex)

For brake bleeder valve.

**Scope of Delivery:**

**KL-0114-13 Double-Ended Ring Spanner Set (hex)**

Part No.	Description	Size (waf)
KL-0114-131	Doppel-Ringschlüssel	7x7mm
KL-0114-132	Doppel-Ringschlüssel	8x8mm
KL-0114-133	Doppel-Ringschlüssel	9x9mm
KL-0114-134	Doppel-Ringschlüssel	10x10mm
KL-0114-135	Doppel-Ringschlüssel	11x11mm



## KL-0114-6

### Brake Pipe Spanner

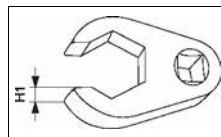
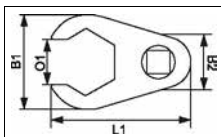
**Universally applicable.**

Used for loosening and tightening screwed brake pipe connections. Forged design, angled with hexagon and slot.

**Technical Data:**

Size (Hex with slot):	10mm and 11mm
Length:	175mm
Weight:	82g

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## KL-4076-301

### Crowfoot Wrench Set

The exceptionally compact and solid design of these open-ended wrenches enables screws and nuts to be loosened and tightened, even if these are very tight-fitting or hard to access; for example on injection lines, hydraulic lines or compressed-air lines.

**Scope of Delivery:**

**KL-4076-301 Crowfoot Wrench Set**

Part No.	Size (waf)	Length [L1]	Height [H1]	Width 1 [W1]	Width 2 [W2]	Opening [O1]	Drive
KL-4076-3017	17mm	49mm	10mm	35mm	27mm	13mm	3/8"
KL-4076-3018	18mm	49mm	10mm	35mm	27mm	14mm	3/8"
KL-4076-3019	19mm	49mm	10mm	36mm	27mm	15mm	3/8"
KL-4076-3022	22mm	57mm	12mm	40mm	32mm	17mm	1/2"
KL-4076-3024	24mm	60mm	12mm	43mm	33mm	19mm	1/2"



## KL-0128-31

### Dial Gauge Stand with Dial Gauge

Designed to measure the wobble of brake discs. Can also be used for fine-tuning when repairing engines and transmissions. Features: Sturdy measuring rods made of bright steel, fine adjustment of the dial gauge clamp, prismatic base with switchable magnet.

**Scope of Delivery:**

**KL-0128-31 Dial Gauge Stand with Dial Gauge**

Part No.	Description	Qty
KL-0128-1	Dial Gauge, Ø 58mm	1
KL-0128-3	Dial Gauge Stand without Dial Gauge	1

## KL-0140-40

### Frame Micrometer, 0-25mm

Features a clamp ring and ratchet stop. The adjustable concealed spindle is hardened and ground. Comes with heat-insulating pads. Measuring range of from 0-25mm; surfaces chrome-plated.

**Technical Data:**

Measuring range:	0-25mm
Graduation:	0.5mm
Weight:	350g



## KL-0140-41

### Frame Micrometer, 25-50mm

Features a clamp ring and ratchet stop. The adjustable concealed spindle is hardened and ground. Comes with heat-insulating pads. Measuring range of from 25-50mm; surfaces chrome-plated.

**Technical Data:**

Measuring range:	25-50mm
Graduation:	0.5mm
Weight:	500g



## KL-0140-32

### Vernier Calliper for Brake Drums

Measuring surfaces made of hardened stainless steel, scale and slide manufactured from aluminum profile. Open slide, fixing screw, vernier with parallax-free reading.

**Technical Data:**

Measuring range:	500mm
Jaw:	250mm
Vernier:	1/20mm
Weight:	1,200g



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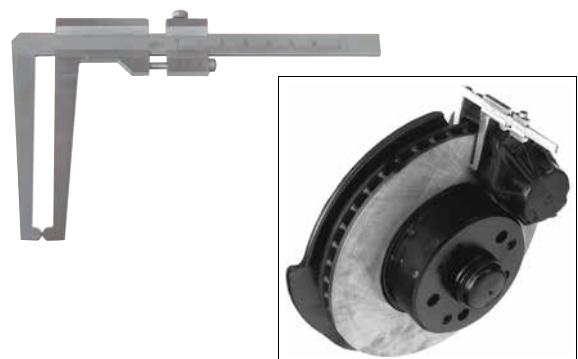
## KL-0140-33

### Vernier Calliper for Brake Disc

For measuring the thickness of brake discs in situ on the vehicle. The tool is hardened and features a locking screw. Rustproof, matt chrome-plated design.

**Technical Data:**

Measuring range:	50mm
Jaw:	75mm
Vernier:	1/10mm
Weight:	110g



## KL-0140-38

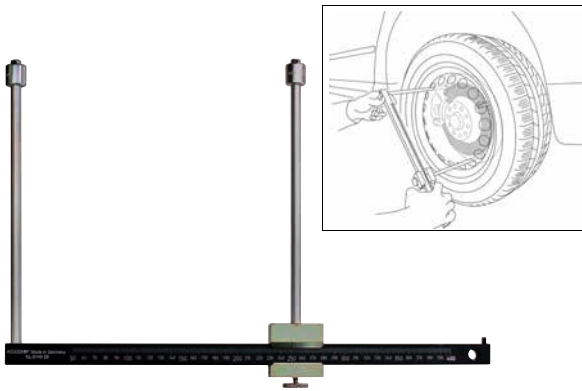
### Vernier Calliper for HGV Brake Discs

For measuring the thickness of brake discs in situ on the vehicle. The tool is hardened and features a locking screw. Rustproof, matt chrome-plated design.

**Technical Data:**

Measuring range:	100mm
Jaw:	120mm
Vernier:	1/10mm
Weight:	240g





## KL-0140-29 Vernier Caliper for Brake Discs

### Universally suitable.

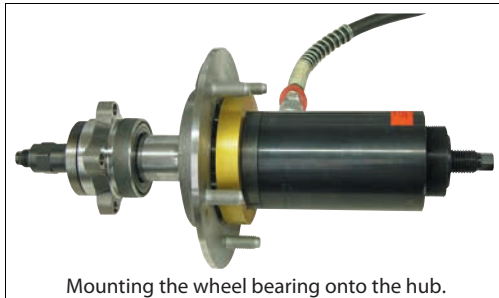
Designed to measure the diameter of brake discs without the need for removing the wheels from the vehicle.

### Advantages:

- Allows for quick identification of the brake system.
- Helps to eliminate the risk of ordering wrong brake pads or brake discs.
- Reduces number of returns.
- Allows professional and cost-effective brake-servicing work to be carried out.
- Saves a lot of time.

### Technical Data

Span (measuring range):	50-400mm
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## KL-0040-86 Wheel Bearing Tool Set with Hydraulic Cylinder (28t), Ford Transit

**Suitable for all the Ford Transit models from 2002 onwards equipped with brake disc fastening screws with pitch circle diameter 97.5 and 111mm, as well as for Tourneo front axle on vehicles with front or rear wheel drive.**

To replace the specified brake discs or wheel bearings, it is usually necessary to pull out the wheel bearing along with the hub and brake disc from the wheel bearing housing. This tool set allows the removal and installation of the wheel bearing to be carried out in situ on the vehicle within a few minutes, without having to dismount the wheel bearing housing.

**Note:** A hydraulic pump such as **KL-0215-35 M28** is required to drive the hydraulic cylinder **KL-0040-2800**.

### Scope of Delivery:

**KL-0040-86 Wheel Bearing Tool Set with Hydraulic Cylinder (28t), Ford Transit**

Part No.	Description	Qty
KL-0040-860	Wheel Bearing Tool Set, without Hydraulic Cylinder (28t)	1
KL-0040-2800	Hydraulic Cylinder (28t)	1
KL-0040-2812-1	Pull Spindle, M24x590mm	1
KL-0040-2812-2	Clamping Nut, M24, Ø 42mm	1

### Scope of Delivery:

**KL-0040-860 Wheel Bearing Tool Set without Hydraulic Cylinder (28t)**

Part No.	Description	Qty
KL-0040-8601	Pressure Disc, Ø 77mm	1
KL-0040-8602	Pressure Disc, Ø 68mm	1
KL-0040-8501 A	Pressure Ring	1
KL-0039-1823-4	Cheese Head Screw, M10x120mm	5
KL-0040-8503	Mandrel	5

## KL-0040-861 Upgrade Kit, Ford Transit Rear Axle

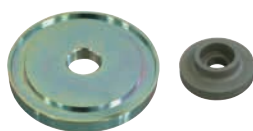
**Suitable for Ford Transit (from 2006 onwards) rear axle, with front wheel drive.**

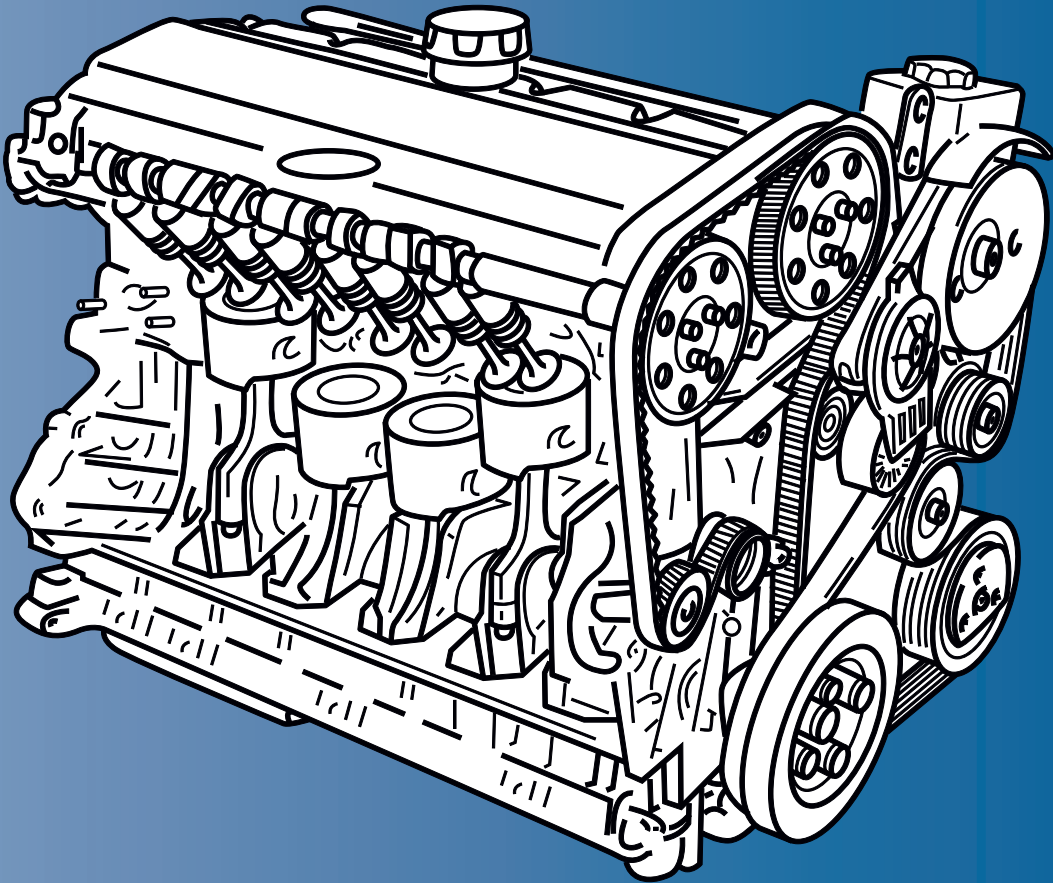
For removing the brake disc from wheel hub bearing units. Used in conjunction with wheel bearing tool set **KL-0040-86**.

### Scope of Delivery:

**KL-0040-861 Upgrade Kit, Ford Transit Rear Axle**

Part No.	Description	Qty
KL-0040-8611	Pressure Disc, Ø 93mm	1
KL-0040-8612	Pressure Ring, Ø 186mm	1





# Engine Maintenance/Repairs

6

# High-Quality Special Tools... ...durable, safe and innovative



# KIS

## Klann Information System

### The GEDORE/KLANN Information System „KIS“

Almost everyone has at some time experienced problems when it came to converting OEM Tool Numbers to the tool they needed.

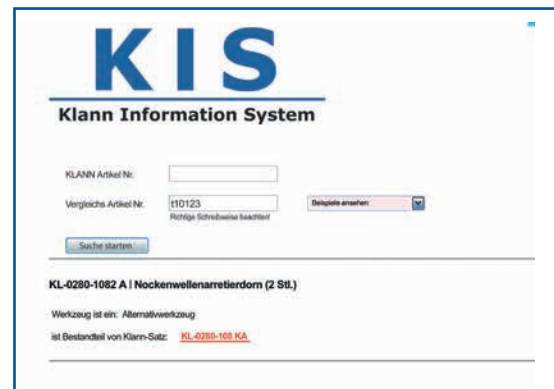
You have the OEM Tool Number from the repair manual and are now looking for the GEDORE/KLANN Special Tool.

This extensive OEM Part Number Data Base is designed to help you find the corresponding GEDORE/KLANN Part Number with ease.

Our system allows garages to quickly and easily identify the GEDORE/KLANN Special Tool they are looking for - for example, for the replacement of a timing belt.

The forward-looking Klann Information System „KIS“ is constantly updated and enhanced with new product ranges, thus always providing the latest information on the full range of the high-quality special tools and services from GEDORE/KLANN.

Easy determination of the right tool for the professional and trouble-free repair thanks to KIS - keeping it simple.



Converting OEM Tool Numbers to GEDORE/KLANN Part Numbers



## KIS goes mobile...

For ultimate convenience and accessibility, GEDORE/KLANN now offers you the possibility to take full advantage of the “KIS” information system from the comfort of your mobile phone: quickly and easily convert OEM part numbers to GEDORE/KLANN specialist tools - wherever you are and whenever you need it.

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## KL-0124-65 K Universal Cooling System Pressure Tester

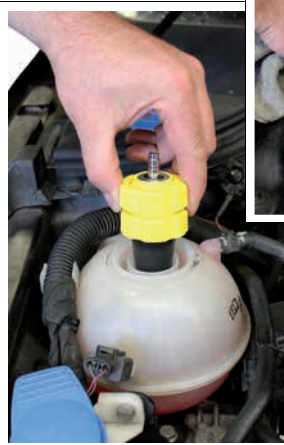
**Universally applicable to passenger cars and HGVs with coolant filler necks having an inner Ø of 28-36mm.**

The universal **KL-0124-65 K** Cooling System Pressure Tester allows for the quick and easy pressure testing of cooling systems for leaks. The universal adaptor that comes with the kit ensures an airtight seal at the interface to the coolant/coolant filler neck and replaces more than 20 vehicle-specific radiator cap adaptors for passenger cars and HGVs.

### Scope of Delivery:

#### KL-0121-20 Set of Hose Clamps (4-Piece Set)

Part No.	Description	Qty
KL-0124-651	Pump with Pressure Gauge	1
KL-0124-652	Universal Adaptor	1
KL-0124-653	Safety Belt	1
KL-0124-6590	Plastic Storage Case	1



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## KL-0284-8 Holding Tool

**Applications: VW Polo, Golf, Passat and Audi A4, etc.**

Designed to counter-hold the pulley on the power steering pump. For example necessary when loosening and tightening the fastening screws on the pulley.

### Advantages:

- The 1/2" drive in the tool handle enables the tool to be extended, for example by a ratchet.
- Facilitates the loosening of stubborn fastening screws on the pulley.

### Technical Data:

Length:	Height:	Inner Ø:	Screw retaining Ø:	Weight:
250mm	17mm	31mm	14mm	450g



## KL-0284-11 Water Pump Holding Tool

**Applications: VW-Audi etc.**

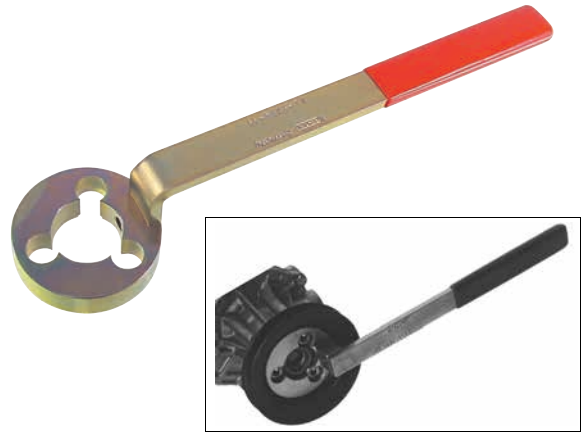
Designed to counter-hold **deep-drawn** water pump pulleys that are used when an air conditioning system is installed. For example necessary when loosening and tightening the fastening screws on the pulley.

**Advantages:**

- Safe locking of the water-pump pulley via the fastening screws.
- Facilitates the loosening of stubborn fastening screws on the water pump pulley.

**Technical Data:**

Length:	Height:	Inner Ø:	Screw retaining Ø:	Weight:
300mm	40mm	31mm	14mm	450g

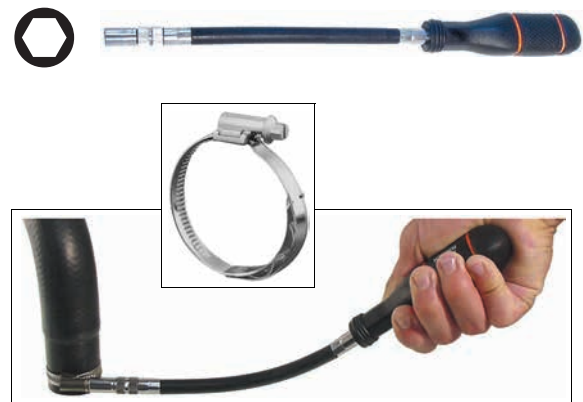


## KL-0121-82 Hose Clamp Screwdriver, Size 6/7mm (waf)

For the quick and easy loosening and tightening of worm-drive hose clamps with size (waf) 6mm and 7mm - e.g. those used on fuel lines, oil coolers, radiator hoses and heater hoses. Even hose clamps that are hard to access can be reached without any problems thanks to the long, flexible shank of the tool.

**Technical Data:**

Size (waf):	6/7mm
Screwdriver overall length:	325mm
Shank length:	205mm
Weight:	160g



## KL-0121-90 Hose Clamp Pliers

**Intended for use on Audi, BMW, Chrysler, Ford, GM, Honda, Mazda, Mercedes, Nissan, Opel/Vauxhall, VW, etc.**

For the tightening of ear clamps (Oetiker System) on axle boots, radiator and fuel hoses.

**Advantages:**

- No damage to the ear clamps.
- No damage to the hoses.
- Thanks to the special design of the tool, the clamp head is being flattened while tightening the clamp. An important feature for applications where space is at a premium.

**Technical Data:**

Length:	240mm
Weight:	492g



## KL-0121-93 Hose Clamp Pliers

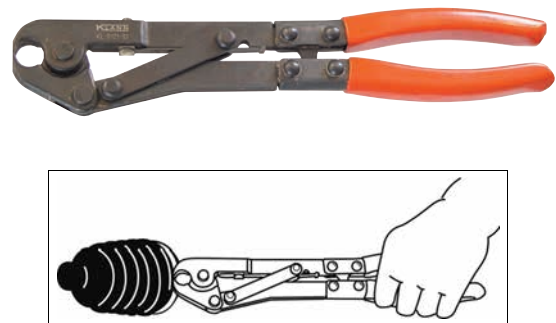
**Suitable for use on Audi, BMW, Chrysler, Ford, GM, Honda, Mazda, Mercedes, Nissan, Opel/Vauxhall, VW etc.**

Efficient transmission of force and 2 working stages.

For the tightening of ear clamps (Oetiker System) on axle boots, radiator and fuel hoses.

**Technical Data:**

Length:	280mm
Weight:	475g







## KL-0121-24

### Hose Clamp Pliers (Angled 90°) with Ratchet Locking Mechanism

**Suitable for Alfa Romeo, Audi, Citroën, Fiat, Ford, Hyundai, Lancia, MAN, Mercedes, Opel/Vauxhall, Peugeot, Porsche, Renault, Seat, Toyota, VW, Volvo, etc.**

Designed for the replacement of fuel line, oil line, radiator and water hoses which are not retained by „Jubilee Type“ clips, but by reusable, self-tensioning hose clips. Special design of the pliers allows hose clips to be securely and safely gripped and held.

The hose clamp pliers enable the following clamps to be opened: Norma, ABA (AWAB), MIKALOR, MUBEA with Ø of from 18-53mm.

#### Technical Data:

Clamp Ø:	18-53mm
Length:	225mm
Clamp Angle:	90°
Weight:	403g



## KL-0121-22

### Hose Clamp Pliers (Straight Design) with Ratchet Locking Mechanism

**Suitable for Alfa Romeo, Audi, Citroën, Fiat, Ford, Hyundai, Lancia, MAN, Mercedes, Opel/Vauxhall, Peugeot, Porsche, Renault, Seat, Toyota, VW, Volvo, etc.**

Designed for the replacement of fuel line, oil line, radiator and heater hoses which are not retained by „Jubilee Type“ clips, but by reusable, self-tensioning hose clips. Special design of the pliers allows the hose clips to be securely and safely gripped and held.

The hose clamp pliers enable the following clamps to be opened: Norma, ABA (AWAB), MIKALOR, MUBEA with Ø of from 18-53mm.

#### Technical Data:

Clamp Ø:	18-53mm
Length:	273mm
Weight:	390g

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## KL-0121-23

### Hose Clamp Pliers (Angled 110°), with Ratchet Locking Mechanism

**Suitable for Alfa Romeo, Audi, Citroën, Fiat, Ford, Hyundai, Lancia, MAN, Mercedes, Opel/Vauxhall, Peugeot, Porsche, Renault, Seat, Toyota, VW, Volvo, etc.**

Designed for the replacement of fuel line, oil line, radiator- and water hoses which are not retained by „Jubilee Type“ clips, but by reusable, self-tensioning hose clips. The special design of the pliers ensure that hose clips are safely gripped and securely held. The hose clamp pliers enable the following clamps to be opened: Norma, ABA (AWAB), MIKALOR, MUBEA with Ø of from 18-53mm.

#### Technical Data:

Clamp Ø:	18-53mm
Length:	285mm
Clamp Angle:	110°
Weight:	425g

## KL-0121-21

### Hose Clamp Pliers with Remote Operation (Bowden Cable with Flexible Tube)

With automatic locking ratchet.  
Designed for the replacement of fuel lines, oil lines, radiator and water hoses, which are not retained by „Jubilee“ type clips, but by reusable, self-tensioning hose clips. The special design of the pliers ensure that hose clips are safely gripped and securely held.  
Due to the possibility of pre-adjustment, the flexible tube ensures that even positions that are hard to access can be reached quickly and without any trouble.

**Technical Data:**

Clamp Ø:	18-53mm
Weight:	450g
Length:	225mm



## KL-0121-2101

### Bowden Cable with Flexible Tube (Spare)

KL-0121-2101



## KL-0121-25

### Hose Clamp Pliers with Remote Operation, Ratchet Locking Mechanism

**Suitable for Alfa Romeo, Audi, Citroën, Fiat, Ford, Hyundai, Lancia, MAN, Mercedes, Opel/Vauxhall, Peugeot, Porsche, Renault, Seat, Toyota, VW, Volvo, etc.**

This tool is designed to open self-tensioning hose clips, for example when replacing fuel line, oil line, radiator and heater hoses.  
Remote operation enables even hard-to-access areas to be reached quickly and without any trouble. The special design of the pliers ensures that hose clips are safely gripped and securely held.

**Technical Data:**

Clamp Ø:	18-53mm
Length:	225mm
Clamp Angle:	90°
Weight:	403g

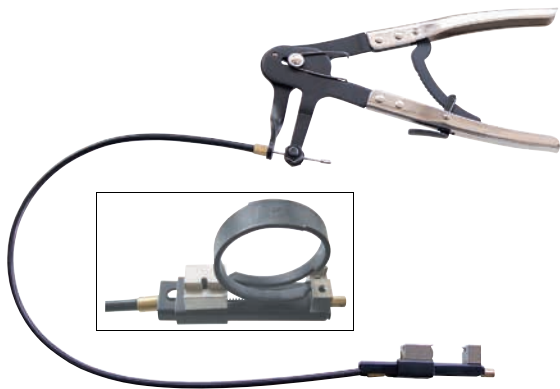


## KL-0121-2501

### Bowden Cable (Spare)

KL-0121-2501





## KL-0121-181 Hose Clamp Pliers with Remote Operation

### Suitable for VW-Audi vehicles.

With automatic locking ratchet.

The pliers allow the user to quickly and easily open the newly developed turbo hose clips without damaging or, even worse, destroying them. Without the use of this tool it is almost impossible to open a hose clip without damaging the hose. Thanks to their remote operation, the pliers are particularly suitable for areas with difficult access, such as the charge air hose coupling under the battery box on VW Passat 2.0 TDI. The removal of the battery box is not necessary.

### Advantages:

- Universal application.
- The tool is easy to operate.
- Does not damage the hose.

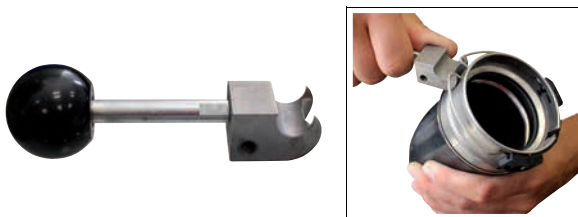
### Technical Data:

Length:	240mm
Weight:	650g

KL-0121-1811



## KL-0121-1811 Bowden Cable (Spare)



## KL-0124-59 Removal Tool for HENN® Clamps

**Universally suitable for HENN® clamps as found on coolant hoses/charge air hoses. Installed, for example, in the following vehicles: VW-Audi, Seat, Škoda, BMW, Peugeot, Citroën, Dacia, Fiat, Ford, Kia, Lexus, Mazda, Mercedes, Nissan, Opel/Vauxhall, Porsche, Renault, Toyota, Volvo etc.**

Designed for the professional loosening/opening of HENN® Clamps as found on coolant hoses/charge air hoses in passenger cars. An indispensable tool when removing/installing coolant hoses/charge air hoses etc.

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## KL-0284-82 K Water Pump Tool Set, VW T5/Touareg

### Applications:

- **VW Transporter T5 (from 2004 onwards) 2.5 TDI (engine: AXE, AXD, BNZ)**
- **VW Touareg (from 2003 onwards) 2.5 TDI (engine: BAC, BPE)**

The tool set **KL-0284-82 K** is designed to turn the crankshaft, for example to TDC position, to counter-hold the crankshaft, for example when loosening the crankshaft central screw or the water pump sprocket fastening screw. It can also be used for the removal/extraction of the water pump sprocket and the water pump.

### Advantages:

- Easy and quick extraction of the water pump.
- Accurate and professional working.
- Substantial time savings.

### Technical Data:

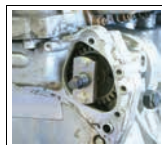
Weight:	1.4kg
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### Scope of Delivery: KL-0284-82 K Water Pump Tool Set, VW T5/Touareg

Part No.	Description	Qty
KL-0284-821	Water Pump Sprocket Puller; to remove the water pump sprocket when removing the water pump.	1
KL-0284-822 A	Water Pump Puller. Required for removing the water pump.	1
KL-0284-823	Key for Rotating the Crankshaft, VW. Designed to rotate/counter-hold the crankshaft. Necessary when setting the engine shafts to TDC position, and when loosening the sprocket fixing screw, for example, on the water pump.	1
KL-0284-8290	Plastic Storage Case (empty)	1



KL-0284-821



KL-0284-822 A



KL-0284-823



## KL-0121-20

### Set of Hose Clamps (4-Piece Set)

Used to clamp/close hoses during repairs.  
For fuel, brake and water lines with  $\varnothing$  of from 10-45mm.

**Scope of Delivery:**  
**KL-0121-20 Set of Hose Clamps (4-Piece Set)**

Part No.	Description	Qty
KL-0121-1	Clamp for Hose $\varnothing$ of up to 10mm	1
KL-0121-2	Clamp for Hose $\varnothing$ of up to 15mm	1
KL-0121-3	Clamp for Hose $\varnothing$ of up to 24mm	1
KL-0121-4	Clamp for Hose $\varnothing$ of up to 45mm	1



## KL-0121-10

### Set of Hose Clamps (3-Piece Set)

Used to clamp/close hoses during repairs.  
For fuel, brake and water lines.

**Scope of Delivery:**  
**KL-0121-10 Set of Hose Clamps (3-Piece Set)**

Part No.	Description	Qty
KL-0121-1	Clamp for Hose $\varnothing$ of up to 10mm	1
KL-0121-2	Clamp for Hose $\varnothing$ of up to 15mm	1
KL-0121-3	Clamp for Hose $\varnothing$ of up to 24mm	1



## KL-0121-511

### Hose Clamp Pliers

With automatic locking ratchet. (Release of the locking mechanism takes place automatically when opening the pliers; unlocking the ratchet is not necessary.) Thanks to the special design of the flexible clamping jaws, damage to the hose is avoided during the clamping process. For the quick and easy clamping of hoses such as water hoses, fuel lines etc. with  $\varnothing$  of up to approx. 35mm.

**Technical Data:**

Weight:	334g
Length:	245mm
For hose $\varnothing$ :	of up to approx. 35mm



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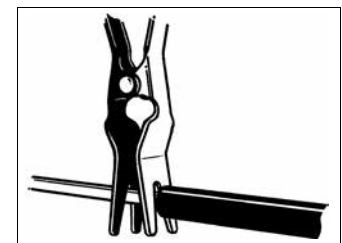
## KL-0121-70

### Hose Removal Pliers

Designed for the quick removal (loosening) of fuel, air and water hoses featuring a diameter of from 4mm to 13mm. The gunmetal-finish jaw of the pliers cramps the metal tube while the hose is being easily pushed off by the bright-finish jaw.

**Technical Data:**

Length:	200mm
Weight:	227g





## KL-0121-26 Hose Clamp Pliers with Ratchet Locking Mechanism

**Suitable for Alfa Romeo, Citroën, Fiat, Ford, Hyundai, Lancia, Mercedes, Opel/Vauxhall, Peugeot, Porsche, Renault, Seat, Škoda, Toyota, Volvo, etc. especially required for the new clips on fuel lines on VW-Audi vehicles.**

For the removal and installation of fuel lines, oil lines, radiator hoses and heater hoses fitted with space-saving, re-usable, self-clamping spring hose clips. The special design of the pliers ensures that the hose clips are safely gripped and securely held. The following makes of hose clips require these pliers: Norma, ABA (AWAB), MIKALOR and MUBEA etc.

## KL-0121-28 Hose Clamp Pliers (angled 90°), with Ratchet Locking Mechanism

**Suitable for Alfa Romeo, Citroën, Fiat, Ford, Hyundai, Lancia, Mercedes, Opel/Vauxhall, Peugeot, Porsche, Renault, Seat, Škoda, Toyota, Volvo, etc. especially required for the new clips on fuel lines on e.g. VW-Audi vehicles.**

For the removal and installation of fuel lines, oil lines, radiator hoses and heater hoses fitted with space-saving, re-usable, self-clamping spring hose clips. The special design of the pliers ensures that the hose clips are safely gripped and securely held. 90° angled pliers with laterally offset retaining slots.

Following makes of hose clips require these pliers: Norma, ABA (AWAB), MIKALOR and MUBEA etc.



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## KL-0121-29 Hose Clamp Pliers with Ratchet Locking Mechanism

**Suitable for Alfa Romeo, Citroën, Fiat, Ford, Hyundai, Lancia, Mercedes, Opel/Vauxhall, Peugeot, Porsche, Renault, Seat, Škoda, Toyota, Volvo, etc. especially required for the new clips on fuel lines on VW-Audi.**

For the removal and installation of fuel lines, oil lines, radiators hoses and heater hoses fitted with space-saving, re-usable, self-clamping spring hose clips. The special design of the pliers ensures that hose clips are securely gripped and safely held.

Pliers with vertically mounted retaining slots.

Following makes of hose clips require these pliers: Norma, ABA (AWAB), MIKALOR and MUBEA etc.

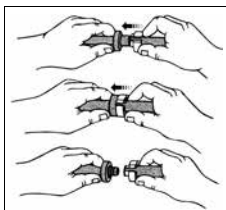
## KL-0121-36 Set of Release Clips

**Suitable for Chrysler, Ford, GM, Opel/Vauxhall, Saab, VW etc.**

The release clips of the KL-0121-36 set are designed to unlock the CLIC spring lock couplings on air-conditioning systems and fuel lines.

The couplings of different sizes are to be unlocked from the front side.

Sizes: 7.9mm (5/16"), 9.5mm (3/8"), 12.7mm (1/2"), 15.9mm (5/8"), 19mm (3/4"), 22.2mm (7/8").



## KL-0121-94 Hose Clamp Pliers

For CLIC clips.

Suitable for Audi, Citroën, Fiat, Mercedes, Opel/Vauxhall, Peugeot, Renault, VW etc.

Used to open and close the reusable hose clamp types CLIC and CLIC-R (Caillau/Serflex).

**Technical Data:**

Weight:	270g
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## KL-0121-340 Set of 3 Fuel Line Pliers

Pliers designed to open connectors on fuel lines. Suitable for Chrysler, Chevrolet, Citroën, Fiat, Ford, Opel/Vauxhall, Peugeot, Pontiac, Renault, VW etc.

On fuel lines connected by "snap-fit" connections, the connectors can be released using pliers **KL-0121-32** for Ø 8mm, and **KL-0121-33** for Ø 10mm fuel lines. (The release segments are to be found on the reverse side of the connector in the axis of the line).

For connectors on Opel/Vauxhall, GM, Fiat, etc. where the release segments are activated from the side, the **KL-0121-34** pliers (2 tips 6.5x6mm) are required.

**Technical Data:**

	KL-0121-32	KL-0121-33	KL-0121-34
Fuel Line Ø:	8mm	10mm	GM/Opel/Vauxhall
Length:	110mm	110mm	115mm
Weight:	75g	75g	70g

**Scope of Delivery: KL-0121-340 Set of 3 Fuel-Line Pliers**

Part no.	Description	Qty
KL-0121-32	Fuel Line Pliers, for Ø 8mm	1
KL-0121-33	Fuel Line Pliers, for Ø 10mm	1
KL-0121-34	Fuel Line Pliers, for GM/Opel/Vauxhall	1



## KL-0121-37 Fuel Line Pliers

Suitable for Opel/Vauxhall, Fiat, GM, VW etc.

For loosening the quick-release connections on fuel feed pipe lines where the unlocking segments can be reached from the side.

**Technical Data:**

Weight:	190g
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## KL-0192-22 Safety Clip Pliers

Suitable for VW-Audi, e.g.: Audi A3, VW Golf IV vehicles fitted with a petrol engine. Used to release fuel line connectors. Indispensable, for example, when changing the fuel filter.

Suitable for Mercedes W124, W140 and W202.

For the installation of the retaining clips securing the chrome strip on the bumper of Mercedes W124, W140 and W202.

For this purpose, the pliers are equipped with special clip retaining notches.

**Technical Data:**

Length:	210mm
Weight:	200g



## KL-0121-38 Fuel Line Pliers

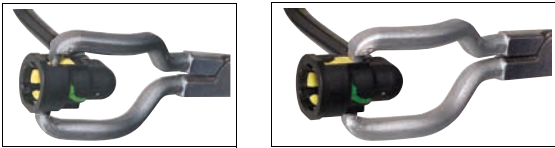


**Suitable for VW-Audi, Fiat, GM, Opel/Vauxhall, Mercedes etc., e.g. Mercedes M-Class with petrol engine.**

This tool is used for unlocking and locking fuel line connectors on fuel filters. Required when replacing a fuel filter or during engine repairs.

**To open the locking:** Pull the unlocked connector backwards with the pliers.

**To close the locking:** Slide the connector forwards with the pliers to lock.



### Technical Data:

Length:	225mm
Weight:	170g

## KL-0511-50 Disconnect Tool for Leakage Fuel Line



**Applicable to the BMW M57 (D306D2, D306D3, D306D4, D306D5, D30T2) 6-cylinder Diesel engines. As installed in BMW 3 Series (E90, E91, E92, E93); 5 Series (E60, E61); 6 Series (E63, E64); 7 Series (E65, E66); X3 (E83); X5 (E70) and X6 (E71).**

Indispensable tool to professionally disconnect the leakage fuel line from injectors. Improper removal methods, for example, by using a pair of pliers, may cause damage to the leakage fuel line resulting in the entire line in the engine compartment to be replaced.

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## KL-0482-42 B Diesel Suction Pump with 70cm Hose, Opel/Vauxhall



**Suitable for use on Opel/Vauxhall 2.0 and 2.2 Ecotec Diesel engines with VP 44 injection pump.  
(Engine codes: X20DTL, X20DTH, X22DTH)**

This pump is needed to bleed the fuel system if the latter has been opened, for example, for a fuel filter replacement or for an engine repair.



KL-0482-420 B



## KL-0482-420 B Hose, 700mm

The 700mm hose **KL-0482-420 B** upgrades the **KL-0482-42 A** diesel suction pump to the **KL-0482-42 B** version.

## KL-0124-41 K Pressure- and Vacuum Hand Pump

Universally applicable. Allows for the quick and easy checking of pressure- and vacuum systems as well as for the extraction of liquids such as fuels, brake fluids etc. (e.g. when bleeding the brake).

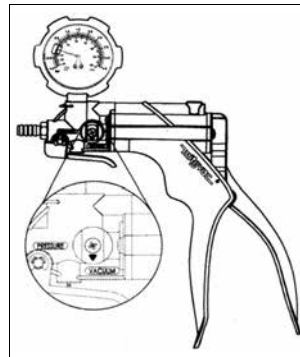
Especially required for checking the following:  
Fuel-System, Vacuum Diaphragm, Vacuum Sensor, Exhaust Gas Recirculation Valve, Fuel Pressure Regulator, Vacuum Modulator on, e.g., Automatic Transmission, Brake Booster, Turbo Charger Valves, Fuel Pump Diaphragm, Leak Tightness on Lines etc.

### Technical Data:

Vacuum measuring range:	from 0-1.0 bar
Pressure measuring range:	from 0-4.0 bar
Display:	Pressure gauge
Max. volume of drain bottle:	500ml
Weight:	1.4kg

### Scope of Delivery: KL-0124-41 K Pressure- and Vacuum Hand Pump

Part No.	Description	Qty
KL-0124-4100	Hand Pump with Pressure Gauge	1
KL-0124-4101	Bleeding Adaptor Set	1
KL-0124-4102	Vacuum Cap Set	1
KL-0124-4103	Diagnostic Adaptor Set	1
KL-0124-4104	Drain Bottle set	1
KL-0124-4105	Hose (2 pieces)	1
KL-0124-4106	Hose Connector	1
KL-0124-4190	Plastic Storage Case	1



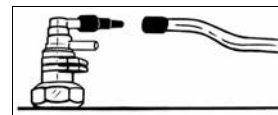
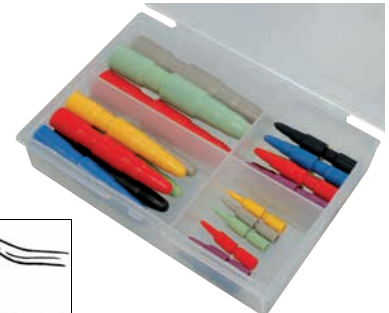
## KL-0121-75 Set of Vacuum Line Plugs

Universally suitable for pressure, vacuum and fuel lines.

The pairs of plugs of this set are used for sealing off pressure-/vacuum- and fuel lines. The different pairs of plugs are colour-coded for easy line identification after repairs. The set contains 48 different adaptors of from 3.2mm (1/8") to 12.7mm (1/2").

### Technical Data:

Weight:	200g
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## KL-0121-61 K Universal Line Clamp Set

Universally suitable for brake, fuel, hydraulic and power steering lines with 5/16", 3/8", 1/2" union nuts and banjo fittings.

Used to seal off opened line connections on brake, fuel, hydraulic and power steering line systems. The universal line clamps are designed to help you prevent any leakage of automotive fluids from opened lines, thus eliminating the risk of contamination of the workplace.

### Technical Data:

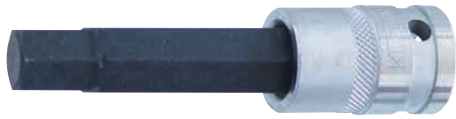
Size:	5/16", 3/8", 1/2", Banjo-Fitting
Length:	109mm

### Scope of Delivery: KL-0121-61 K Universal Line Clamp Set

Part No.	Description	Qty
KL-0121-611	Line Clamp, 5/16"	1
KL-0121-612	Line Clamp, 3/8"	1
KL-0121-613	Line Clamp, 1/2"	1
KL-0121-614	Line Clamp	1
KL-0121-6190	Plastic Storage Case	1







1/2"

## KL-4021-3113

### Screwdriver Bit Socket, Size (waf) 13mm, 100mm, 1/2"

**Applicable to the 4-Cylinder TDI Pumpe Düse (unit injector) engines as found in VW-Audi, Seat, Škoda vehicles.**

The special socket **KL-4021-3113** allows for the quick and trouble-free loosening and tightening of the central retaining bolt on fuel cooling units - necessary, for example, when replacing the fuel filter. This special socket may also be used to remove and install the brass inserts on injector valves in Audi petrol engines from 1990 onwards.

#### Technical Data:

Drive:	1/2"
Profile:	Hex.
Length:	100mm
Size:	13mm



## KL-0120-80

### Fuel Tank Sensor Spanner Set (adjustable)

#### Universal application.

For loosening and tightening the plastic lock ring of the fuel sensor on fuel tanks.

#### Scope of Delivery: KL-0120-80 Fuel Tank Sensor Spanner Set (adjustable)

Part No.	Description	Range:	Drive:
KL-0120-801	Fuel Tank Sensor Spanner, Ø 80-120mm	80-120mm	24mm
KL-0120-802	Fuel Tank Sensor Spanner, Ø 110-170mm	110-170mm	24mm



1/2"



## KL-0122-56

### Fuel Filter Socket, Size (waf) 27mm

**Suitable for the Citroën, Peugeot, Fiat and Ford 2.0 HDI Diesel engines as found in: Citroën C4, C5, C8, Jumpy; Peugeot 307, 308, 407, 508, 607, 807, Expert; Fiat Scudo, Ulysse; Ford C-Max, Focus, Galaxy, Kuga, S-Max.**

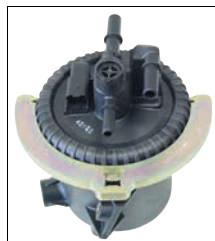
This fuel filter socket is intended for the removal and installation of the fuel filter cap when replacing a fuel filter cartridge.

#### Technical Data:

Drive (square):	1/2"
Length:	85mm
Size:	27mm



3/8"



## KL-0122-701

### Fuel Filter Socket, Ø 109mm

**Suitable for the Peugeot, Citroën, Fiat, Lancia, Suzuki vehicles equipped with either a 2.0 or 2.2 HDI Diesel engine such as: Peugeot 206, 307, 406, 607, 807; Citroën C5, C8, Berlingo, Jumpy, Xsara; Fiat Scudo, Ulysse; Lancia Phedra, Zeta; Suzuki Vitara, Grand Vitara I.**

This fuel filter socket is intended for the removal and installation of the fuel filter cap when replacing a fuel filter cartridge.

#### Technical Data:

Profile:	Ø 109mm
Drive (square):	3/8"

#### Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet

3093 U-20 CODE:1556800 - Reversible ratchet 3/8" 200mm



## KL-0122-702

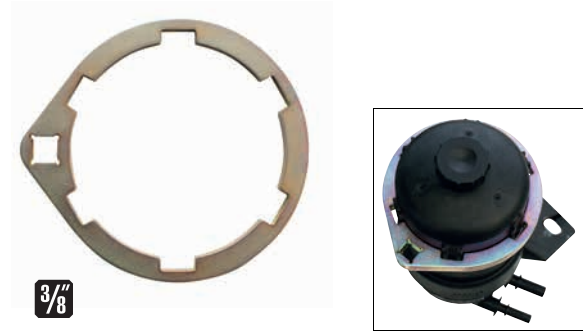
### Fuel Filter Socket, Ø 82mm

**Suitable for Volvo Diesel vehicles equipped with fuel filter cartridge such as S60, S80, V70, XC70, XC 90, with 2.4 D or 2.4 D5 engines.**

This fuel filter socket is intended for the removal and installation of the fuel filter cap when replacing a fuel filter cartridge.

**Technical Data:**

Drive:	3/8"
Internal Ø:	82mm
Ribs:	6 ribs



## KL-0122-608

### Fuel Filter Socket, Ø 109mm

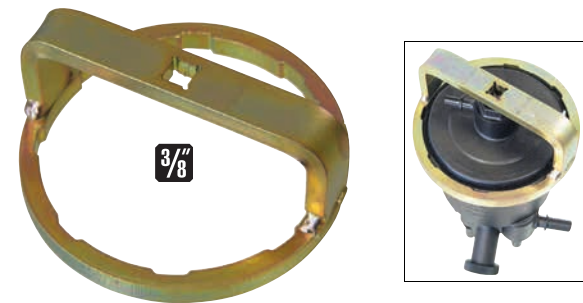
**Suitable for Peugeot, Citroën, Renault, Fiat and Lancia etc.**

For Fuel Filter with Ø 109mm and 8 Ribs.

This fuel filter socket is required to remove and install the fuel filter cap when replacing the fuel filter cartridge.

**Technical Data:**

Drive (square):	3/8"
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## KL-0122-610

### Fuel Filter Socket, Ø 109mm, 6 Ribs

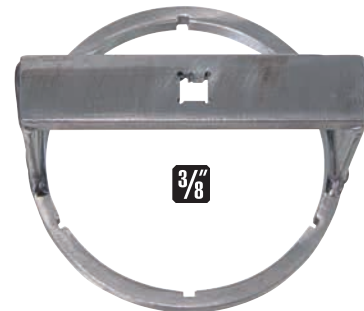
**Suitable for Fiat 1.3, 1.9 JTD and Opel/Vauxhall 2.0 Diesel engines: Antara (from 2007 onwards), Insignia (from 2009 onwards). Engine code : A 20 DTJ, Z 20 DMH.**

For fuel filters with Ø 109mm and 6 ribs.

This fuel filter socket is intended for the removal and installation of the fuel filter cap when replacing a fuel filter cartridge.

**Technical Data:**

Drive (square):	3/8"
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## KL-0289-10

### Fuel Filter Cap Installation Tool

**Suitable for the VW-Audi, Seat and Škoda Diesel vehicles fitted with a UFI fuel filter unit.**

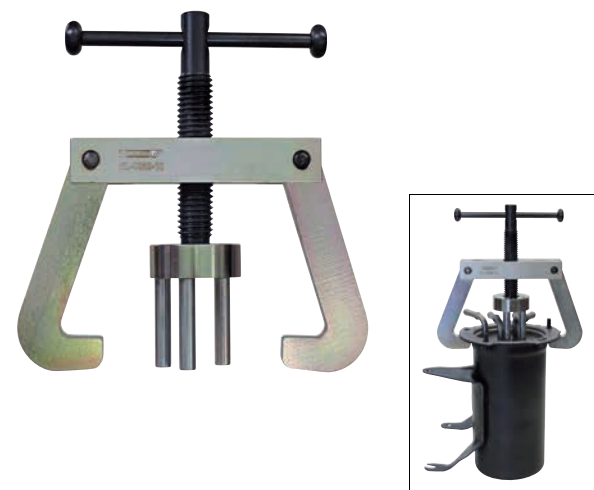
Very useful tool allowing for the torsion-free mounting of fuel filter caps on fuel filters; required, for example, after changing the fuel filter cartridge.

The fuel filter cap installation tool is designed to press the fuel filter cap evenly and in a torsion-free manner into the seal seat in the fuel filter housing. Then, the fuel filter can be fixed according to the manufacturer's instructions.

**Scope of Delivery:**

**KL-0289-10 Fuel Filter Cap Installation Tool**

Part No.	Description	Qty
KL-0289-102	Spindle with T-Handle	1
KL-0289-101	Base Tool	1
KL-0289-103	Thrust Piece	1



**Note:** If a fuel filter cap is inserted into the seal seat in the fuel filter housing without the use of our special tool but by means of the fastening screws, there is a risk that the fuel filter cap is subjected to torsional stress during installation which could lead to leakage in the fuel filter unit.



## KL-0123-61 K Fuel Filter Bleeding Tool Kit

### Universal application.

Designed to enable easy bleeding of fuel systems; for example, after changing the fuel filter or having performed maintenance work on the fuel system.

Thanks to the adaptors included in the kit, the bleeding tool is compatible with and can quickly be connected to virtually any common fuel system.

The clear hose of the fuel filter bleeding tool (suction side) allows the user to visually check for air bubbles during the bleeding process.

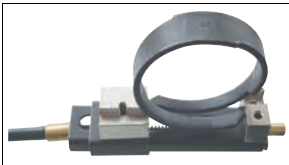
### Scope of Delivery:

#### KL-0123-61 K Fuel Filter Bleeding Tool Kit

Part No.	Description	Qty
KL-0123-6101	Adaptor Hose, 8mm, 1m long	1
KL-0123-6102	Hand Pump with Hoses, 0.5m	1
KL-0123-4811-1	Adaptor SAE, 8x20mm (red)	1
KL-0123-4812-1	Adaptor SAE, 8x30mm (yellow)	1
KL-0123-4813-1	Adaptor SAE, 9.5x20mm (grey)	1
KL-0123-4814-1	Adaptor SAE, 10x20mm (green)	1
KL-0123-4815-1	Adaptor SAE, 10x30mm (blue)	1
KL-0123-4816-1	Adaptor NG8 Type 246 (white)	1
KL-0123-4817-1	Adaptor, Ø 6mm (light blue)	1
KL-0123-4818-1	Adaptor, Ø 8mm (pink)	1
KL-0123-4819-1	Adaptor, Ø 10mm (purple)	1
KL-0123-4820-1	Adaptor, 11.8x25mm (brown)	1
KL-0123-4821-1	Adaptor NG12 Type 246 (orange)	1
KL-0123-4822-1	Adaptor, Ø 12mm (black)	1
KL-0123-6190	Plastic Storage Case with Insert	1



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## KL-0121-181 Hose Clamp Pliers with Remote Operation

### Suitable for VW-Audi vehicles.

With automatic locking ratchet.

The pliers allow the user to quickly and easily open the newly developed turbo hose clips without damaging or, even worse, destroying them.

Without the use of this tool it is almost impossible to open a hose clip without damaging the hose.

Thanks to their remote operation, the pliers are particularly suitable for areas with difficult access, such as the charge air hose coupling under the battery box on VW Passat 2.0 TDI. The removal of the battery box is not necessary.

### Advantages:

- Universal application.
- The tool is easy to operate.
- Does not damage the hose.

### Technical Data:

Length:	240mm
Weight:	650g



KL-0121-1811



## KL-0121-1811 Bowden Cable (Spare)

## KL-0124-59 Removal Tool for HENN® Clamps

Universally suitable for HENN® clamps as found on coolant hoses/charge air hoses. Installed, for example, in the following vehicles: VW-Audi, Seat, Škoda, BMW, Peugeot, Citroën, Dacia, Fiat, Ford, Kia, Lexus, Mazda, Mercedes, Nissan, Opel/Vauxhall, Porsche, Renault, Toyota, Volvo etc.

Designed for the professional loosening/opening of HENN® Clamps as found on coolant hoses/charge air hoses in passenger cars. An indispensable tool when removing/installing coolant hoses/charge air hoses etc. The handle of the tool can be unscrewed and repositioned by 90 degrees. This allows even HENN® Clamps which are difficult to access to be loosened/opened with ease.



## KL-0124-51 K Test Tool Kit for Charge-Air Systems

Universally suitable for charge-air systems that are sealed with hose clamps.

The KL-0124-51 K test tool kit is designed to quickly, professionally and safely check charge-air systems for leaks. The sealing- and adaptor plugs allow the complete charge-air system to be squeezed off and pressurized with the aid of a tyre inflator. Seal tightness checks can then be performed by means of a leak detector spray, but leaks can also be detected by leak-generated noises or a drop in pressure. Any leakage on connections, tubes, hoses, charge-air coolers or turbochargers can quickly and easily be detected and localised using this tool. The special design of the plugs ensure that they are securely held in place throughout the whole leak-checking procedure. All the plugs from this kit are made of solid special material and, as a result, feature an excellent slip-resistant surface. They are specifically designed to accurately fit the respective connectors of the vehicle charge-air systems. All plugs are equipped with a safety bead which ensures that the plug is securely held in the hose even if there is still oil residue in it. Compact shape with fewer stages for ease of use and safety have been given top priority in the design of these plugs making them particularly suitable for narrow designs or for charge-air hoses with strong bending - there, where conventional plugs won't fit.

The kit is composed of 6 pairs of plugs (2-stage, with safety bead) with diameters Ø 35/40mm, Ø 45/50mm, Ø 55/60mm, Ø 55/60mm, Ø 65/70mm, Ø 75/80mm, Ø 85/90mm, a pressure relief valve, an extension tube (for narrow designs), a hose clamp driver with flexible shaft (waf 6/7mm), and is supplied in a plastic storage case.

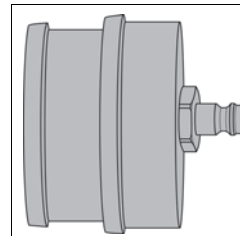
### Advantages:

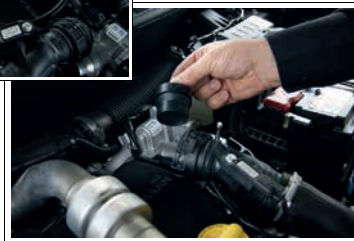
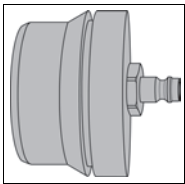
- Made of solid special material.
- Safety bead and slip-resistant surface ensure a secure fit.
- Compact design.
- Universal application.
- Composition of the kit proven very useful in practice.
- All components are available individually as spare parts.

### Scope of Delivery:

#### KL-0124-51 K Test Tool Kit for Charge-Air Systems

Part No.	Description	Qty
KL-0124-5135	Pair of Sealing/Adaptor Plugs, Ø 35/40mm	1
KL-0124-5145	Pair of Sealing/Adaptor Plugs, Ø 45/50mm	1
KL-0124-5155	Pair of Sealing/Adaptor Plugs, Ø 55/60mm	1
KL-0124-5165	Pair of Sealing/Adaptor Plugs, Ø 65/70mm	1
KL-0124-5175	Pair of Sealing/Adaptor Plugs, Ø 75/80mm	1
KL-0124-5185	Pair of Sealing/Adaptor Plugs, Ø 85/90mm	1
KL-0124-511	Pressure Relief Valve, 1.3bar	1
KL-0124-512	Extension Hose	1
KL-0124-513	Adapter Hose Kit (3-pc.)	1
KL-0121-82	Hose Clamp Screwdriver, 6/7mm (waf)	1
KL-0124-5190	Plastic Storage Case	1





## KL-0124-52 K Test Tool Kit for Charge-Air Systems

**Universally suitable for charge-air systems equipped with air tubes/hoses that are connected by means of a click system as can be found in new generation vehicles.**

The **KL-0124-52 K** test kit is designed to quickly, professionally and safely check charge-air systems for leaks. The sealing- and adaptor plugs allow the complete charge-air system to be squeezed off and pressurized with the aid of a tyre inflator. Seal tightness checks can then be performed by means of a leak detector spray, but leaks can also be detected by leak-generated noises or a drop in pressure. Any leakage on connections, tubes, hoses, charge-air coolers or turbochargers can quickly and easily be detected and localised using this tool kit.

The special design of the plugs ensure that they are securely held in place throughout the whole leak-checking procedure. All the plugs from this kit are made of solid special material and specifically designed to accurately fit the connectors of the respective vehicle charge-air system. The kit is composed of 6 pairs of plugs (NW26, NW32, NW40, NW45, NW50, NW55), a pressure relief valve, an extension hose (for narrow designs), and is supplied in a plastic storage case.

### Advantages:

- Made of solid special material.
- Safety bead and slip-resistant surface ensure a secure fit.
- Compact design.
- Universal application.
- Composition of the kit proven very useful in practice.
- All components are available individually as spare parts.

### Scope of Delivery: KL-0124-52 K Test Tool Kit for Charge-Air Systems

Part No.	Description	Qty
KL-0124-5226	Pair of Sealing/Adaptor Plugs, Ø 26mm	1
KL-0124-5232	Pair of Sealing/Adaptor Plugs, Ø 32mm	1
KL-0124-5240	Pair of Sealing/Adaptor Plugs, Ø 40mm	1
KL-0124-5245	Pair of Sealing/Adaptor Plugs, Ø 45mm	1
KL-0124-5250	Pair of Sealing/Adaptor Plugs, Ø 50mm	1
KL-0124-5255	Pair of Sealing/Adaptor Plugs, Ø 55mm	1
KL-0124-511	Pressure Relief Valve, 1.3bar	1
KL-0124-512	Extension Hose	1
KL-0124-5290	Plastic Storage Case	1

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## KL-0286-20 Socket Wrench Set, (waf 10mm) for Pressure Capsule with Charge Pressure Actuator Position Sensor, VW

**Suitable for the pressure capsule with charge pressure actuator position sensor at the exhaust gas turbocharger fitted to 2.0 Common Rail Diesel engines. For example found in: Golf VI (5K), Golf Plus (52), Jetta (1K), Passat (3C), Passat CC (35), Scirocco (13), Eos (1F), Tiguan (5N), Transporter T5 (from 2010 upwards, 7J, 7H, 7G, 7F) and Audi A3 (8P).**

This tool set is designed for the professional loosening, adjustment and tightening of the control rod when removing/installing the pressure capsule along with the charge pressure actuator position sensor.

**Note:** If the control rod is not loosened, adjusted and tightened correctly, there is a risk of damage to the pressure capsule.

### Technical Data:

Width across flats (KL-0286-2001):	10mm
Width across flats (KL-0286-2002):	10/12mm
Length (KL-0286-2001):	50mm
Length (KL-0286-2002):	144x55mm
Drive:	1/4"

### Scope of Delivery: KL-0286-20 - Socket Wrench Set, (waf 10mm)

Part No.	Description	Qty
KL-0286-2001	Socket (waf 10mm)	1
KL-0286-2002	Combination Spanner (bent design), waf 10/12mm	1



## KL-0123-31 K Fuel Return Flow Test/Diagnosis Kit

**Universally suitable for vehicles fitted with high-pressure injectors whose fuel return lines are individually accessible.**

The **KL-0123-31 K** Fuel Return Flow Test/Diagnosis Kit is designed for the professional measurement of the fuel return flow, return pressure and, optionally, the return flow temperature in a closed circuit. It allows the user to perform up to five important measurements/checks simultaneously: the absolute fuel return volume per injector (ml/min), the comparison of the return flow volume of up to six injectors at the same time, the return flow pressure (0-6bar), any formation of air bubbles in the return flow, and optionally, the return flow temperature.

**Advantages:**

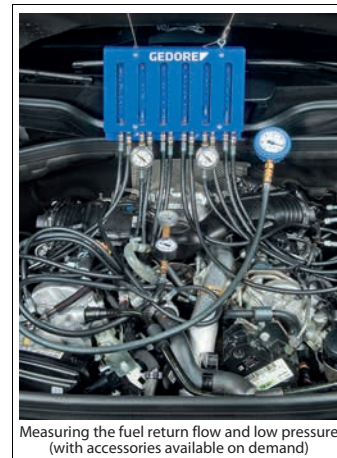
- Short installation time, thanks to a confusion-proof coupling system.
- Designed for virtually all Bosch-, Siemens-, Denso- and Delphi injection systems (also Piezo).
- In conjunction with an engine diagnostic device, also long-term testing at several rotational speeds and engine temperatures are possible.
- Pressure gauge and analogue temperature sensor (accessories) connectable.



**Scope of Delivery:**

**KL-0123-31 K Fuel Return Flow Test/Diagnosis Kit (Passenger Cars)**

Part No.	Description	Qty
KL-0123-3100	Fuel Return Flow Tester, 6 Cylinders, 2-40 ml/min	1
KL-0123-3101	Adaptor Hose Set (2-pc.), 70cm	6
KL-0123-3105	Pressure Gauge, 0-16bar	1
KL-0123-3111	Adaptor (Pair), Bosch Piezo & Continental	6
KL-0123-3112	Adaptor (Pair), Bosch Solenoid Valve and Siemens/VDO	6
KL-0123-3113	Adaptor (Pair), Bosch Solenoid Valve (2nd Generation)	4
KL-0123-3114	Adaptor (Pair), Denso	4
KL-0123-3115	Adaptor (Pair), Delphi I	4
KL-0123-3116	Adaptor (Pair), Delphi II	4
KL-0123-3192	Foam Insert	1
KL-0123-3193	Plastic Storage Box	10
KL-0123-3191	Plastic Storage Case	1



Measuring the fuel return flow and low pressure (with accessories available on demand)

## KL-0123-3102 Analogue Temperature Sensor, 0 to +120°C

A useful complement to our KL-0123-31 K Fuel Return Flow Test/Diagnosis Kit.



## KL-0123-3104 Pressure Gauge, -1 to 0 bar

A useful complement to our KL-0123-31 K Fuel Return Flow Test/Diagnosis Kit.



## KL-0123-310 Extension Hose Set (12-pc.), 140cm

**Compatible with the KL-0123-31 K Fuel Return Flow Test/Diagnosis Kit.**

Designed to extend the adaptor hoses of the **KL-0123-31 K** Fuel Return Flow Test/Diagnosis Kit.

**Technical Data:**

Hose Length:	140cm
Connection:	Coupling nipple





## KL-0123-41 K

### Low-Pressure Circuit Test/Diagnosis Kit, Passenger Cars

**Universally suitable for Common-Rail Diesel engines.**

The **KL-0123-41 K** Low-Pressure Circuit Test/Diagnosis Kit allows for the professional testing of the low pressure circuit (measurement of the forward delivery and return pressure). The following basic tests can be performed quickly and easily to check for:

- delivery of fuel from the tank,
- air bubbles in the fuel system,
- fuel contamination.

These measurements/tests can be carried out both while the vehicle is stationary and while driving.

#### Scope of Delivery: KL-0123-41 K Low-Pressure Circuit Test/Diagnosis Kit

Part No.	Description	Qty
KL-0123-4201	Adaptor Hose, 6mm, 2m long	2
KL-0123-4203	Pressure Gauge (-1 to 5 bar), with Fitting and Protective Cap	1
KL-0123-4204	Pressure Gauge (-1 to 15 bar), with Fitting and Protective Cap	1
KL-0123-4205	T-Connector, SAE, 8 x 20mm (red)	1
KL-0123-4206	T-Connector, SAE, 8x30mm (yellow)	1
KL-0123-4207	T-Connector, SAE, 9.5x20mm (grey)	1
KL-0123-4208	T-Connector, SAE, 10x20mm (green)	1
KL-0123-4209	T-Connector, SAE, 10x30mm (blue)	1
KL-0123-4210	T-Connector, NG8 Type 246 (white)	1
KL-0123-4211	T-Connector, Ø 6mm (brown)	1
KL-0123-4212	T-Connector, Ø 8mm (orange)	1
KL-0123-4213	T-Connector, Ø 10mm (purple)	1
KL-0123-4214	T-Connector, 11.8x25mm (light-blue)	1
KL-0123-4192	Foam Insert	1
KL-0123-4191	Plastic Storage Case	1



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## KL-0123-44 K

### High-Pressure Circuit Test/Diagnosis Kit, Passenger Cars

**Universally applicable to Common Rail Diesel engines.**

The **KL-0123-44 K** high-pressure circuit test/diagnosis kit for passenger cars allows for quick, easy and safe pressure testing the high-pressure circuit (forward delivery) of Common Rail Diesel engines with a maximum working pressure of up to 2500 bar. The digital high-pressure gauge, the special high-pressure hoses and adaptors that come with the kit, allow for accurate pressure tests of the high-pressure circuit in a closed loop between rail and injector, as well as identifying the minimum/maximum pressure value. A special feature of the kit is the 2.5m long cable, which is connected to the pressure gauge, making it possible to test the pressure also during a test drive. The flexible hoses enable pressure measurements to be made even in areas that are difficult to access.

#### Technical Data:

Max. admissible pressure:	2,500bar
Measuring range (High-Pressure Gauge):	0-2,500bar
High-pressure line (angle):	45°, 90°, 135°, 180°
High-pressure hose (length):	0.6m

#### Scope of Delivery: KL-0123-44 K High-Pressure Circuit Test/Diagnosis Kit

Part No.	Description	Qty
KL-0123-441	High-Pressure Hose, 0.6m; M14x1.5 IG	2
KL-0123-442	Measuring Cable with Connector Plug	1
KL-0123-443	Set of High-Pressure Lines (4-pc.); M12x1.5 IG to M14x1.5 IG; 45°/90°/135°/180°	1
KL-0123-4401	High-Pressure T-Connector, 9/16" IG	1
KL-0123-4402	High-Pressure Diesel Adaptor, M14x1.5 AG to 9/16" AG	2
KL-0123-4403	High-Pressure Adaptor, 9/16" AG to 9/16" AG	1
KL-0123-4404	Pressure Sensor, 0-2500bar; 9/16" IG; 4-20mA	1
KL-0123-4405	Inspection Certificate according to DIN EN 10204-3.1	1
KL-0123-4406	Digital High-Pressure Gauge	1
KL-0123-4407	High-Pressure Thread Adaptor, M12x1.5 to M14x1.5	2
KL-0123-4408	High-Pressure Thread Adaptor, M14x1.5 to M14x1.5	2
KL-0123-4492	Foam Insert	1
KL-0123-4491	Plastic Storage Case	1



## KL-0123-48 K

### Fuel System Cleaning/Diagnostic Kit, with Auxiliary Tank

**Universally suitable for vehicles with suction pump.**

The **KL-0123-48 K** Fuel System Cleaning/Diagnostic Kit with Auxiliary Tank is designed for the quick, easy and professional operation of the engine in a separate circuit with the vehicle fuel tank disconnected. Necessary for the detection and diagnosis of faults between the tank and, for example, fuel filter, high-pressure pump etc. The kit also allows for the professional cleaning of the injection system with a specific fuel/cleaning fluid mixture.

**Scope of Delivery: KL-0123-48 K Fuel System Cleaning/Diagnostic Kit**

Part No.	Description	Qty
KL-0123-4800	Auxiliary Tank (10l)	1
KL-0123-4801	Adaptor Hose, 8mm, 4m long	2
KL-0123-4802	Hand-Operated Diaphragm Pump with Plug Fitting	1
KL-0123-4811	Adaptor Set (3-piece), SAE 8x20mm (red)	1
KL-0123-4812	Adaptor Set (3-piece), SAE 8x30mm (yellow)	1
KL-0123-4813	Adaptor Set (3-piece), SAE 9.5x20mm (grey)	1
KL-0123-4814	Adaptor Set (3-piece), SAE 10x20mm (green)	1
KL-0123-4815	Adaptor Set (3-piece), SAE 10x30mm (blue)	1
KL-0123-4816	Adaptor Set (3-piece), NG8 Type 246 (white)	1
KL-0123-4817	Adaptor Set (3-piece), Ø 6mm (brown)	1
KL-0123-4818	Adaptor Set (3-piece), Ø 8mm (orange)	1
KL-0123-4819	Adaptor Set (3-piece), Ø 10mm (purple)	1
KL-0123-4820	Adaptor Set (3-piece), 11.8x25mm (light-blue)	1
KL-0123-4821	Adaptor Set (3-piece) NG12 Type 246 (pink)	1
KL-0123-4822	Adaptor Set (3-piece), Ø 12mm (black)	1
KL-0123-4892	Foam Insert	1
KL-0123-4291	Plastic Storage Case	1



## KL-0123-53 K

### Test/Diagnosis Kit 3 for Urea Dosage/Injection Systems

**Universally suitable for use on Common Rail Diesel engines as found in passenger cars and light goods vehicles equipped with a Denoxtronic 3.1, 5 or 5.1 urea dosage/injection system from Bosch; as fitted to VW-Audi, BMW, Mazda, Mercedes, Mitsubishi etc.**

Used in conjunction with an appropriate diagnostic tester, the **KL-0123-53 K** Test/Diagnosis Kit 3 allows for the quick, trouble-free and professional checking of the injection volume, injection pressure, spray pattern, as well as for various visual inspections. It is also designed to rinse the complete system with water, as well as bleed the systems when refilling with (AdBlue®) urea solution. The oil test paper is used to detect any mineral oil contaminations in the AdBlue® fluid.

**Scope of Delivery: KL-0123-53 K Test/Diagnosis Kit 3**

Part No.	Description	Qty
KL-0123-5301	Pressure Control Unit, -1 up to 15bar	1
KL-0123-5302	Extension Hose, 2m	1
KL-0123-5303	Adaptor (for rinsing), 6.3x20mm	1
KL-0123-5304	Oil Test Paper	1
KL-0123-5305	Table Scale, 0-1200g	1
KL-0123-5306	Refractometer, AdBlue, with Accessory	1
KL-0123-5307	Reservoir with Retention Feature, Denoxtronic 3.1; 5; 5.1	1
KL-0123-5308	Test Paper, Ø 90mm (100 Units)	1
KL-0123-5309	Extension Cable, 2m	1
KL-0123-5310	Coolant-Connecting Hose	1
KL-0123-5392	Foam Insert	1
KL-0123-5391	Plastic Storage Case	1



**Technical Data:**

Pressure Control Unit: -1 up to 15bar

## KL-0123-500

### Hand Pump for Urea Solution

**Universal application.**

The hand pump for urea solution, with a filling capacity of up to 1.5 litres, allows for the contamination-free transfer of urea solutions (AdBlue®) from a container into a vehicle-side urea tank. The pump is also suitable for the suction cleaning of contaminated urea solutions from the tank. The transparent design and graduated scale of the hand pump allow for the precise dosing of the urea solution. The mechanical shut-off valve on the pump prevents any spillage of the urea solution during transfer.



**Technical Data:**

Filling capacity: 1.5l



## KL-0125-1 A

(Universal)

### Universal Valve Spring Compressor

**Suitable for the cylinder heads (1-12 cylinder engines - two-valve to four-valve technology) on in-line engines or V-type engines.**

The **KL-0125-1 A** valve spring compressor allows for the replacement of valve stem seals, both with the cylinder head removed or in situ on the vehicle.

The retaining flanges are rotatable on the spindles, so that they can be affixed to the cylinder head transversally or in parallel relative to the camshaft axis as necessary.

The correct position of the adjusting bar can be achieved by turning the adjusting spindles on the left- and right-hand side, thus obtaining the correct angle for compressing the valve spring.

The special design of the tool allows for variable adjustment making the compressor suitable for use on virtually any engine with up to 12 cylinders.

#### Advantages:

- Substantial job time savings - thanks to the possibility of repairing both the valve stem seals and valve springs in-situ on the vehicle without the need to remove the cylinder head.
- Universal application - thanks to different installation and adjustment possibilities.

#### Scope of Delivery:

##### KL-0125-1 A Universal Valve Spring Compressor

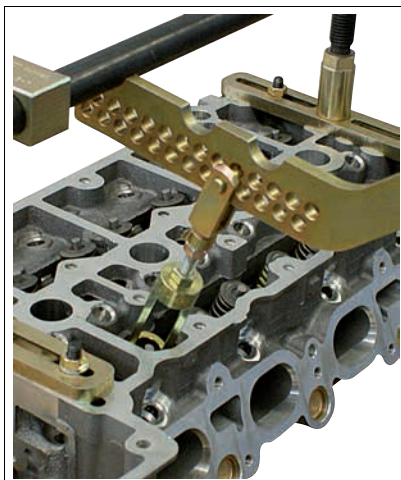
Part No.	Description	Qty
KL-0125-100	Stand	2
KL-0125-1006	Rod	1
KL-0125-1007	O-Ring, Ø 17x4mm	2
KL-0125-1008	Pressure Lever	1
KL-0125-1009	Set Screw, M8x5	1
KL-0125-1010-A	Fork Head with Folding Spring Bolt, M8x32mm	1
KL-0125-1011	Nut	4
KL-0125-1015	Pressure Piece (standard), 34mm	1
KL-0035-0003	Hex Nut, M8	2



6

## KL-0125-....

### Pressure Pieces for KL-0125-1 A

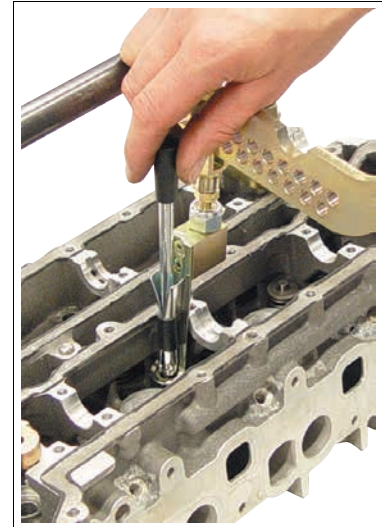


Part No.	Description	Application	Outer Ø
KL-0125-1035	Pressure Piece	Peugeot/Citroën HDI	21mm
KL-0125-1033	Pressure Piece	Opel/Vauxhall, Seat, VW-Audi	24mm
KL-0125-1034	Pressure Piece	Hyundai	25mm
KL-0125-1022	Pressure Piece	Toyota, Ford 16V	28mm
KL-0125-1023	Pressure Piece	Nissan	30mm
KL-0125-1021	Pressure Piece	Toyota	31mm
KL-0125-1024	Pressure Piece	Opel/Vauxhall, Peugeot	32mm
KL-0125-1025	Pressure Piece	Renault 19 and Clio	33mm
KL-0125-1015	Pressure Piece	BMW, VW, Peugeot Diesel	34mm
KL-0125-1026	Pressure Piece	Renault, Mazda, Peugeot 106, Mercedes M102, M104	35mm
KL-0125-1027	Pressure Piece	Fiat	37mm
KL-0125-1028	Pressure Piece	Peugeot, Citroën	38mm
KL-0125-1031	Pressure Piece	Mercedes OM 601, 602, 603	40mm
KL-0125-1029	Pressure Piece	Ford	42mm
KL-0125-1030	Pressure Piece	Fiat Diesel	44mm

KL-0125-1032	Pressure Piece (open)	BMW-M40	34mm
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## KL-0125-61.. Pressure Pieces

Part No.	Description	Application	Outer Ø
KL-0125-6121	Pressure Piece	Peugeot/Citroën HDI	21mm
KL-0125-6122	Pressure Piece	Mercedes, Smart	22mm
KL-0125-6124	Pressure Piece	VW-Audi, Seat, Smart, Opel/Vauxhall	24mm
KL-0125-6125	Pressure Piece	Hyundai	25mm
KL-0125-6126	Pressure Piece	Mercedes, VW	26mm
KL-0125-6128	Pressure Piece	Toyota, Ford	28mm
KL-0125-6130	Pressure Piece	Nissan	30mm
KL-0125-6131	Pressure Piece	Toyota	31mm
KL-0125-6132	Pressure Piece	Opel/Vauxhall; Peugeot	32mm

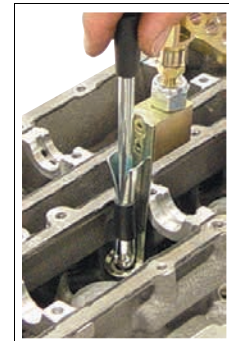


## KL-0125-60 Valve Collet Assembly Tool Set

For installing valve collets.

Re-installing valve collets with three grooves can be difficult if space is restricted, valve springs are located deep inside the cylinder head or valve springs are recessed deeply into bucket tappet guides.

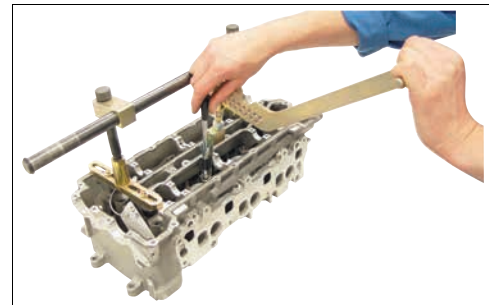
The new **KL-0125-6.. Series** of valve collets assembly tools, together with the matching pressure pieces from the **KL-0125-61.. Series** and the **KL-0125-1 A** valve spring compressor, makes the installation of single- and three-groove valve collets safe and easy, whether the cylinder head is on the engine or removed. This is particularly important if valve stem seals have to be renewed without removing the cylinder head from the vehicle.



### Scope of Delivery:

#### KL-0125-60 Valve Collet Assembly Tool Set

Part No.	Description	Application	Ø
KL-0125-601	Valve Collet Assembly Tool, Ø 5mm	Opel/Vauxhall, VW-Audi	5mm
KL-0125-602	Valve Collet Assembly Tool, Ø 6mm	Smart, VW-Audi	6mm
KL-0125-603	Valve Collet Assembly Tool, Ø 7.8mm	Mercedes	7,8mm

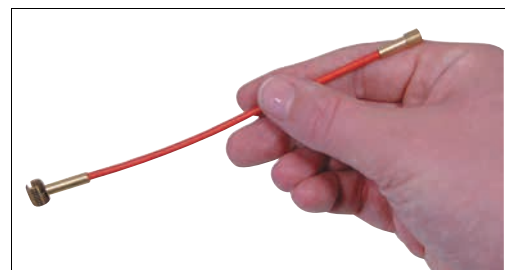


## KL-0126-221 Magnetic Valve Collet Lifter (flexible)

With this flexible mini magnetic lifter, metallic objects can be removed even from the smallest crack. The **KL-0126-221** magnetic lifter is particularly suitable for lifting/removing valve collets.

### Technical Data:

Length:	200mm
Weight:	6g
Magnet-Ø 3 mm power:	150g
Magnet-Ø 4 mm power:	270g





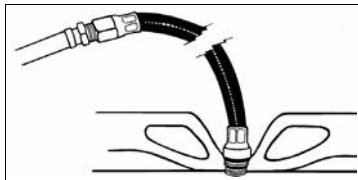
### KL-0127-1 Compressed Air Adaptor

For connecting to spark plug thread holes.

The compressed air adaptor allows compressed air to be applied to the cylinder being repaired. This is required to keep the valves up and closed during replacement of the valve stem oil seals with the cylinder head in place.

**Technical Data:**

Connection Threads:	M12x1.25 and M14x1.25
Length:	170mm



### KL-0127-20 Compressed Air Hose, M14x1.25/M18x1.5

For connecting to spark plug thread holes.

This flexible hose allows compressed-air supply into the determined cylinder even under confined space conditions. This is required to keep the valves up and closed during replacement of the valve stem oil seals without removal of the cylinder head.

**Technical Data:**

Connection Threads:	M14x1.25 and M18x1.5
Length:	305mm
Compressed Air side:	1/4"-18 NPT
Weight:	120g



**Technical Data:**

Connection thread:	M8x1
Length:	178mm
Tube:	Ø 12x80mm

### KL-1383-118 Compressed Air Adaptor for Glow Plug Bore

Universally applicable to Citroën, Fiat, Ford, Lancia, Mercedes, Opel/Vauxhall, Suzuki, Volvo etc.

(Engine Codes: 169 A1.000, 188 A8.000, 188 A9.000, 199 A2.000, 199 A3.000, 199 A9.000, 199 B1.000, 199 B4.000, 223 A9.000, 263 A2.000, A13DTC, D13A, DT17, DT20, FD4, OM639, OM640, OM642, OM651, Y13DT, Z13DT, Z13DTH, Z13DTJ)

With the aid of the **KL-1383-118** compressed air adaptor, which is screwed into the glow plug bore, compressed air can be injected into the combustion chamber so as to prevent impurities from entering the latter.



### KL-0369-55 B Compressed Air Adaptor for Glow Plug Bore

Universally applicable to, e.g., BMW, Mercedes, Chrysler, Opel/Vauxhall, Nissan, Renault etc.

With the aid of the **KL-0369-55 B** compressed air adaptor, which is screwed into the glow plug bore, compressed air can be injected into the combustion chamber so as to prevent impurities from entering the latter.

**Technical Data:**

Thread:	M10x1
Length:	178mm
Pipe Ø:	15x110mm



**Technical Data:**

Connection Thread:	M10x1.25
Length:	207mm
Tube Ø:	15mm

### KL-0186-1631 Compressed Air Adaptor for M10x1.25 Glow Plug Bore, Toyota/Lexus

Universally applicable to Diesel engines e.g. Opel/Vauxhall (A17DTJ, A17DTC, A17DTE, A17DTS); Toyota and Lexus (1ND-TV, 1CD-FTV, 1KD-FTV, 2AD-FHV, 2AD-FTV, 2KD-FTV H, 2KD-FTV L, W17D14 [1ND]) etc.

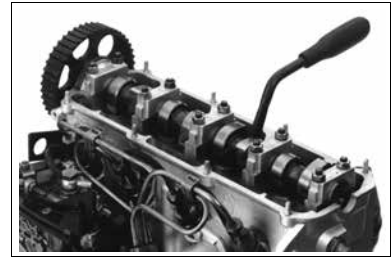
With the aid of the **KL-0186-1631** compressed air adaptor, which is screwed into the glow plug bore, compressed air can be injected into the combustion chamber so as to prevent impurities from entering the latter.

## KL-0280-3

### Valve Depressor, VW-Audi

Suitable for use on the VW-Audi 4-cylinder engines from 1983 onwards and all other 5- and 6-cylinder engines with bucket tappets.

Intended for valve timing. Used in conjunction with valve shim pliers KL-0280-1.



## KL-0281-2

### Valve Spring Compressor

Suitable for use on VW-Audi engines from 1.3 onwards, until model year 1993.

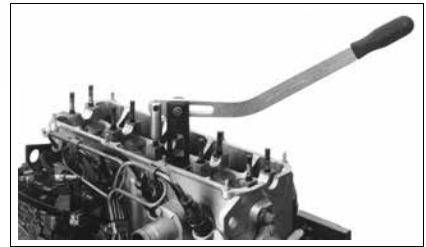
Provided with a fork head for 8mm cylinder head studs. Suitable for the removal and installation of valve springs.

Pressure piece KL-0125-1015, metal design.

**Scope of Delivery:**

**KL-0281-2 Valve Spring Compressor**

Part No.	Description	Qty
KL-1381-2003	Lever with Safety Handle	1
KL-0125-1010-A	Fork Head with Folding Spring Bolt, M8x32mm	2
KL-0125-1009	Set Screw, M8x50mm	1
KL-0035-0003	Hex Nut, M8	2
KL-0125-1015	Pressure Piece (standard), 34mm	1



## KL-0281-2001

### Fork Head, for 7mm Studs

Applicable to VW Polo, (Golf II und III) with a 1.4 or 1.6 engine.



## KL-1381-2

### Valve Spring Compressor, Peugeot

Intended for use on Peugeot.

For valve springs with a bucket tappet Ø of 38mm.

The valve depressor enables the removal and installation of valve springs both with the cylinder head being removed or installed.

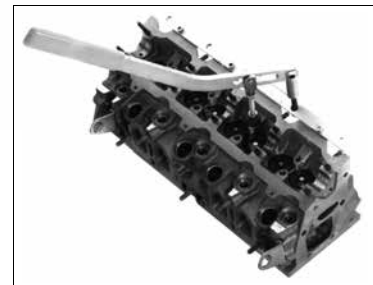
The pressure pieces are interchangeable to fit the respective bucket tappet Ø.

Please see tool KL-0125-1 A.

**Scope of Delivery:**

**KL-1381-2 Valve Spring Compressor, Peugeot**

Part No.	Description	Qty
KL-1381-2001	Bar	1
KL-1381-2002	Hex Screw, M6x20mm	3
KL-1381-2003	Lever with Safety Handle	1
KL-1381-2005	Hex screw M8x60mm	1
KL-0125-1010	Fork Head with Folding Spring Bolt, M8x16mm	2
KL-1381-2006	Set Screw, M8x60mm	1
KL-0035-0003	Hex Nut, M8	2
KL-0125-1028	Pressure Piece, 38mm, Peugeot	1





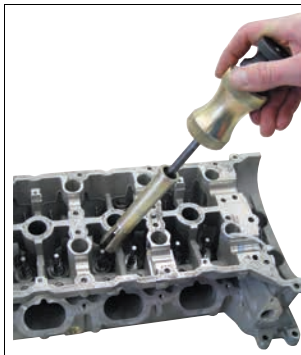
## KL-0049-13 Slide Hammer Puller for Valve Stem Seals

**For Valve Stem Sealing Rings. Applicable to bucket tappets with diameters of from 23mm-26mm (e.g. Audi engines with 5 valves per cylinder).**

The **KL-0049-13** slide hammer puller for valve stem sealing rings can be used universally. The special design of the tool allows even stuck valve stem oil seals to be removed quickly and easily, without any risk of damage to the bucket tappets of the cylinder head.

**Scope of Delivery: KL-0049-13 Slide Hammer Puller for Valve Stem Seals**

Part No.	Description	Qty
KL-0049-130	Collet Chuck for Valve Stem Seals (small)	1
KL-0049-100	Slide Hammer Puller (Base Tool)	1
KL-0049-1205	Plastic Sleeve	1



## KL-0049-12 Slide Hammer Puller for Valve Stem Seals

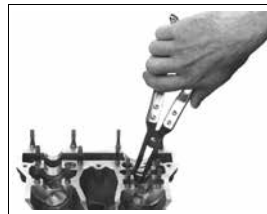
**For Valve Stem Sealing Rings. Applicable to bucket tappets with diameters of from 26mm upwards.**

The **KL-0049-12** slide hammer puller for valve stem sealing rings can be used universally. The special design of the tool allows even stuck valve stem oil seals to be removed quickly and easily, without any risk of damage to the bucket tappets of the cylinder head.

**Scope of Delivery: KL-0049-12 Valve Stem Seal Slide Hammer Puller**

Part No.	Description	Qty
KL-0049-120	Collet Chuck for Valve Stem Seals	1
KL-0049-100	Slide Hammer Puller (Base Tool)	1
KL-0049-1205	Plastic Sleeve	1

6



## KL-0126-61 (Universal) Removal Pliers for Valve Stem Seals (ultra long design)

**For Valve Stem Sealing Rings**

The special long, slim design of the pliers allows for quick, easy and safe removal of valve stem oil seals, even from engines with 4-valve cylinder heads.



KL-0125-71

## KL-0125-71 Valve Lapper Tool, Ø 29/35mm

Used for hand lapping valves. The tool is equipped with two suction cups in different sizes designed to hold and rotate the valves for lapping operations.

**Technical Data:**

For valve head Ø:	29/35mm
Length:	225mm
Weight:	60g

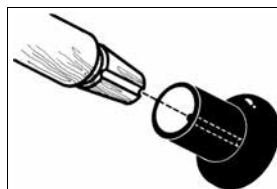
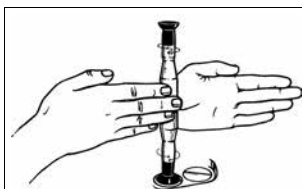


KL-0125-70

## KL-0125-70 Valve Lapper Tool, Ø 16/21mm

**Technical Data:**

For valve head Ø:	16/21mm
Length:	210mm
Weight:	25g



## KL-0126-43 Piston Ring Pliers

**Suitable for most passenger cars and vans.**

Designed to remove and install piston rings with size of 1.2-6.3mm.

**Technical Data:**

Weight:	115g
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## KL-0181-1 Stud Tool, 3/8"

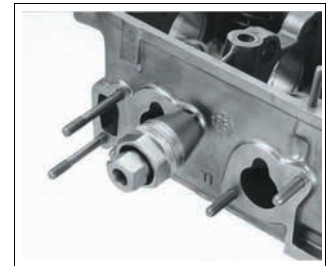
(Universal)

**Universal tool, infinitely adjustable.**

Designed to screw in and unscrew studs with diameter of 6-12mm.

**Advantages:**

- Infinitely adjustable.
- Suitable for use in very limited space conditions.
- Also suitable for screws with rusted or stripped threads.
- Also suitable for screws with undersize.



**Technical Data:**

Drive:	3/8"
Clamping range:	6-12mm
Weight:	450g

## KL-0140-60 Precision Straightedge, 500 mm

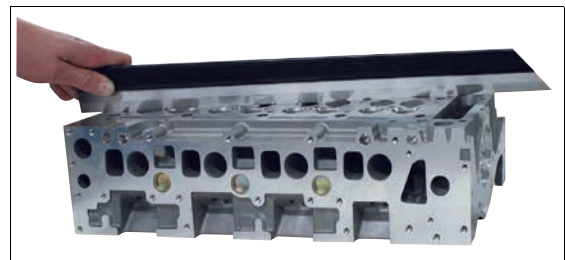
**Suitable for cylinder heads with up to 4 cylinders.**

Edges hardened, ground, lapped, with heat shield.

**Technical Data:**

Length:	500mm
Quality Description:	Stainless steel
Cross section:	40x7mm
Weight:	960g

Accessory: **KL-0140-6101** Wooden case for precision straightedge



## KL-0140-61 Precision Straightedge, 600mm

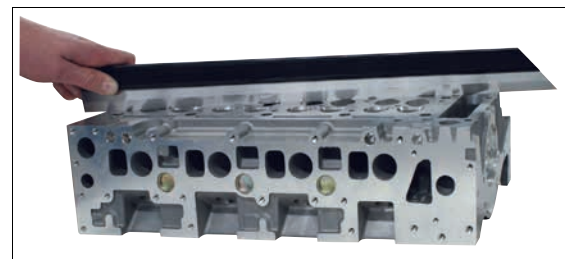
**Suitable for Cylinder Heads with up to 6 cylinders.**

Edges hardened, ground, lapped, with heat shield.

**Technical Data:**

Length:	600mm
Quality Description:	Stainless steel
Cross section:	40x7mm
Weight:	1,200g

Accessory: **KL-0140-6101** Wooden case for Precision straightedge





## KL-0128-31

### Dial Gauge Stand with Dial Gauge

Designed to measure the wobble of brake discs. Can also be used for fine-tuning when repairing engines and transmissions. Features: Sturdy measuring rods made of bright steel, fine adjustment of the dial gauge clamp, prismatic base with switchable magnet.

**Scope of Delivery:**

**KL-0128-31 Dial Gauge Stand with Dial Gauge**

Part No.	Description	Qty
KL-0128-1	Dial Gauge, Ø 58mm	1
KL-0128-3	Dial Gauge Stand without Dial Gauge	1



## KL-0128-1

### Dial Gauge, Ø 58mm

Spindle and clamping shank made of stainless steel, design and measurement accuracy according to DIN 878-A.

**Technical Data:**

Dial graduation:	0.01mm
Measuring range:	10mm
Housing Ø:	58mm
1 pointer revolution:	1mm
Clamping shank Ø:	8mm



## KL-0128-3

### Dial Gauge Stand without Dial Gauge

Sturdy measuring rods made of bright steel, dial gauge holder with fine adjustment, prismatic base with switchable magnet.

6



1/2"

**Technical Data:**

Size:	11mm
Profile:	Hex
Drive:	1/2"
Length:	100mm

## KL-4021-3111

### Screwdriver Bit Socket, Size (waf) 11mm, 100mm, 1/2"

**Applicable to VW-Audi, Seat, Škoda engines.**

The **KL-4021-3111** bit socket allows for the removal and installation of the plastic insert for injector valves on VW-Audi petrol engines.



1/2"

**Technical Data:**

Drive:	1/2"
Profile:	Hex.
Length:	100mm
Size:	13mm

## KL-4021-3113

### Screwdriver Bit Socket, Size (waf) 13mm, 100mm, 1/2"

**Applicable to the 4-Cylinder TDI Pumpe Düse (unit injector) engines as found in VW-Audi, Seat, Škoda vehicles.**

The special socket **KL-4021-3113** allows for the quick and trouble-free loosening and tightening of the central retaining bolt on fuel cooling units - necessary, for example, when replacing the fuel filter. This special socket may also be used to remove and install the brass inserts on injector valves in Audi petrol engines from 1990 onwards.

**Accessories (on demand):**

**1993 U-20** CODE:1436686 - Reversible ratchet



## KL-4046-362

### Socket Set, Torx®, long, 1/2"

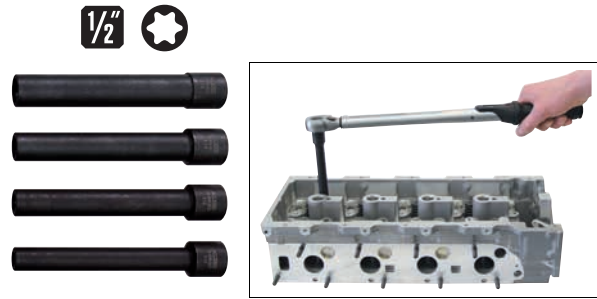
Applicable to BMW, Mercedes CDI engines, etc.

These Torx® Sockets in extended length with a built-in magnet enable the loosening and tightening of cheese-head screws with external Torx® profiles.

Scope of Delivery:

KL-4046-362 Socket Set, Torx® E10 / E12 / E14 / E18, long, 1/2"

Part No.	Torx®	Drive	Length	Weight
KL-4046-3610	E10	1/2"	150mm	200g
KL-4046-3612	E12	1/2"	150mm	225g
KL-4046-3614	E14	1/2"	150mm	250g
KL-4046-3618	E18	1/2"	150mm	415g



® = registered trademark of Acument Intellectual Properties, LLC. USA

## KL-4076-301

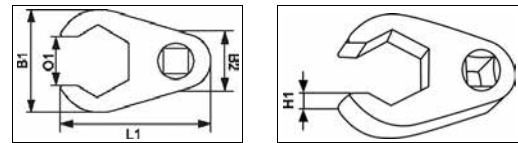
### Crowfoot Wrench Set

The exceptionally compact and solid design of these open-ended wrenches enables screws and nuts to be loosened and tightened, even if these are very tight-fitting or hard to access; for example on injection lines, hydraulic lines or compressed-air lines.

Scope of Delivery:

KL-4076-301 Crowfoot Wrench Set

Part No.	Size (waf)	Length [L1]	Height [H1]	Width 1 [W1]	Width 2 [W2]	Opening [O1]	Drive
KL-4076-3017	17mm	49mm	10mm	35mm	27mm	13mm	3/8"
KL-4076-3018	18mm	49mm	10mm	35mm	27mm	14mm	3/8"
KL-4076-3019	19mm	49mm	10mm	36mm	27mm	15mm	3/8"
KL-4076-3022	22mm	57mm	12mm	40mm	32mm	17mm	1/2"
KL-4076-3024	24mm	60mm	12mm	43mm	33mm	19mm	1/2"



## KL-4076-302

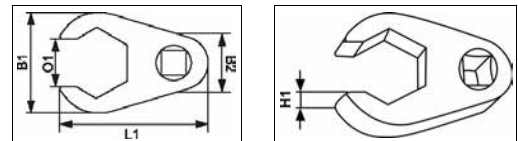
### Crowfoot Wrench Set

The exceptionally compact and solid design of these open-ended wrenches enables screws and nuts to be loosened and tightened, even if they are very tight-fitting or hard to access; for example on injection lines, hydraulic lines or compressed-air lines.

Scope of Delivery:

KL-4076-302 Crowfoot Wrench Set

Part No.	Size (waf)	Length [L1]	Height [H1]	Width 1 [W1]	Width 2 [W2]	Opening [O1]	Drive
KL-4076-3027	27mm	62mm	12mm	48mm	34mm	23mm	1/2"
KL-4076-3030	30mm	68mm	12mm	52mm	37mm	24mm	1/2"
KL-4076-3032	32mm	72mm	13mm	56mm	39mm	26mm	1/2"



## KL-4076-401

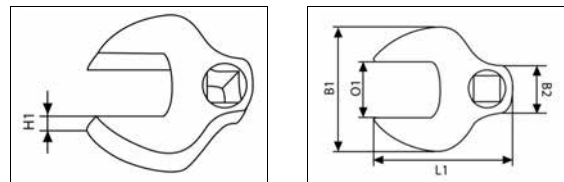
### Crowfoot Wrench Set

The exceptionally compact and solid design of these open-ended wrenches enables screws and nuts to be loosened and tightened, even if they are very tight-fitting or hard to access; for example on injection lines, hydraulic lines or compressed-air lines.

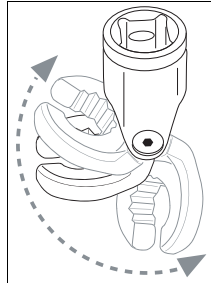
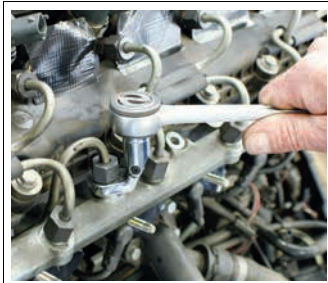
Scope of Delivery:

KL-4076-401 Crowfoot Wrench Set

Part No.	Size (waf) [O1]	Length [L1]	Height [H1]	Width 1 [W1]	Width 2 [W2]	Weight	Drive
KL-4076-3036	36mm	81mm	12mm	75mm	29mm	280g	1/2"
KL-4076-3041	41mm	89mm	13mm	88mm	30mm	380g	1/2"
KL-4076-3046	46mm	91mm	13mm	92mm	32mm	400g	1/2"







## KL-4075-321 K

### Flexible Crowfoot Socket Wrench Set

Universally suitable for screwed pipe connections, for example, on brake systems, injection systems etc.

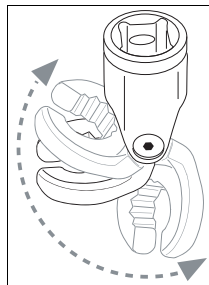
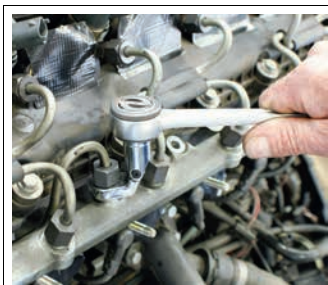
These tools are required for the loosening and tightening of screwed pipe connections. Thanks to the special design of the wrenches, even screw connections that are difficult to access can be reached quickly and without any trouble.

**Technical Data:**

Profile:	Double Hex
Drive:	3/8"

**Scope of Delivery: KL-4075-321 K Flexible Crowfoot Socket Wrench Set**

Part No.	Description	Qty
KL-4075-3214	Flexible Crowfoot Socket Wrench, Size (waf) 14mm, bi-hex, 3/8"	1
KL-4075-3216	Flexible Crowfoot Socket Wrench, Size (waf) 16mm, bi-hex, 3/8"	1
KL-4075-3217	Flexible Crowfoot Socket Wrench, Size (waf) 17mm, bi-hex, 3/8"	1
KL-4075-3218	Flexible Crowfoot Socket Wrench, Size (waf) 18mm, bi-hex, 3/8"	1
KL-4075-3219	Flexible Crowfoot Socket Wrench, Size (waf) 19mm, bi-hex, 3/8"	1
KL-4074-3190	Plastic Storage Case	1



## KL-4074-311 KA

### Flexible Crowfoot Socket Wrench Set

Universally suitable for screwed pipe connections, for example, on brake systems, injection systems etc.

These tools are required for the loosening and tightening of screwed pipe connections. Thanks to the special design of the wrenches, even screw connections that are difficult to access can be reached quickly and without any trouble.

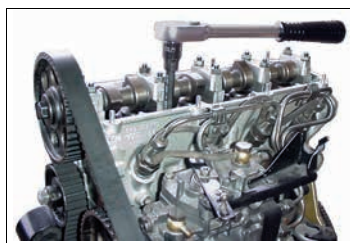
**Technical Data:**

Profile:	Hex
Drive:	3/8"

**Scope of Delivery: KL-4074-311 KA Flexible Crowfoot Socket Wrench Set**

Part No.	Description	Qty
KL-4074-3111	Flexible Crowfoot Socket Wrench, Size (waf) 11mm, hex, 3/8"	1
KL-4074-3112	Flexible Crowfoot Socket Wrench, Size (waf) 12mm, hex, 3/8"	1
KL-4074-3114	Flexible Crowfoot Socket Wrench, Size (waf) 14mm, hex, 3/8"	1
KL-4074-3116	Flexible Crowfoot Socket Wrench, Size (waf) 16mm, hex, 3/8"	1
KL-4074-3117	Flexible Crowfoot Socket Wrench, Size (waf) 17mm, hex, 3/8"	1
KL-4074-3118	Flexible Crowfoot Socket Wrench, Size (waf) 18mm, hex, 3/8"	1
KL-4074-3119	Flexible Crowfoot Socket Wrench, Size (waf) 19mm, hex, 3/8"	1
KL-4074-3190	Plastic Storage Case	1

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**Technical Data:**

Drive:	1/2"
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## KL-4051-331 B

### Screwdriver Bit Socket Set RIBE®, 1/2", 8-piece

Suitable for FIAT engines with RIBE® screws.

For loosening and tightening RIBE® screws on cylinder head valve drive housings etc.

**Scope of Delivery: KL-4051-331 B Screwdriver Bit Socket Set RIBE®, 1/2", 8-piece**

Part No.	Description	Qty
KL-4051-3007	Screwdriver Bit Socket RIBE® M7, 55mm, 1/2"	1
KL-4051-3008	Screwdriver Bit Socket RIBE® M8, 55mm, 1/2"	1
KL-4051-3311	Screwdriver Bit Socket RIBE® M10, 140mm, 1/2"	1
KL-4051-3312	Screwdriver Bit Socket RIBE® M12, 140mm, 1/2"	1
KL-4051-3313	Screwdriver Bit Socket RIBE® M13, 140mm, 1/2"	1
KL-4051-3314	Screwdriver Bit Socket RIBE® M14, 140mm, 1/2"	1
KL-4051-3406	Screwdriver Bit Socket RIBE® M6, 200mm, 1/2"	1
KL-4051-3408	Screwdriver Bit Socket RIBE® M8, 200mm, 1/2"	1

\* = registered trademark of Richard Bergner GmbH & Co. KG

## KL-4051-3310

### Screwdriver Bit Socket, RIBE® M10

Ideal to remove and re-tighten cylinder head retaining bolts on **VW-Audi engines** with RIBE® similar profile.



**Technical Data:**

Drive:	1/2"
Length:	140mm
Weight:	100g

## KL-4031-3309

### Screwdriver Bit Socket XZN-M9, 140mm, 1/2"

**Applicable to: Japanese passenger cars such as Daihatsu, Toyota fitted with petrol engines etc.**

Ideal for slackening and tightening cylinder head bolts, e.g. on Japanese passenger car engines with XZN M9 thread profile.



## KL-0369-10

### Hex Socket, Size (waf) 22mm

**Suitable for diesel engines from: VW-Audi, BMW, Ford, Opel/Vauxhall, Rover, Mercedes, Seat, Volvo, etc.**

The special cut-out hex socket allows for the removal/installation of diesel injectors without damaging the fuel return tubes.



**Technical Data:**

Size:	22mm
Drive:	1/2"

## KL-0511-1

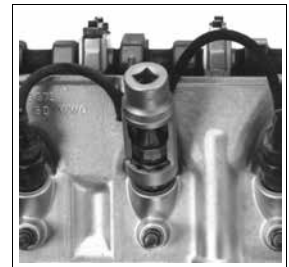
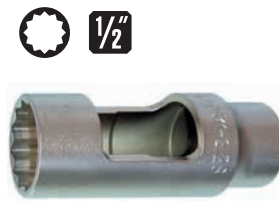
### Diesel Injector Bi-Hex Socket, Size (waf) 27mm

**Applicable to: BMW (e.g. M21, M41, M51) as well as to Ford, VW, and Mercedes Diesel engines.**

Specifically cut-out bi-hex socket for removing and installing diesel injectors without damaging the fuel return tubes.

**Technical Data:**

Size (bi-hex):	27mm
Drive:	1/2"



## KL-0511-2

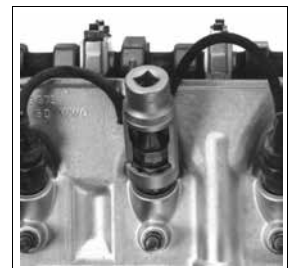
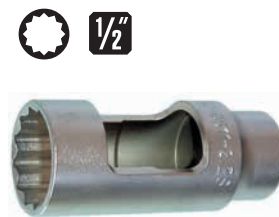
### Diesel Injector Bi-Hex Socket, Size (waf) 28mm

**Applicable to: Alfa Romeo; Chrysler; Rover; MAN 2.5 TD**

Specifically cut-out bi-hex socket for removing and installing diesel injectors without damaging the fuel return tubes.

**Technical Data:**

Size (bi-hex):	28mm
Drive:	1/2"



## KL-0511-3

### Diesel Injector Bi-Hex Socket, Size (waf) 21mm

**Applicable to the TwinCam Diesel engines on:**

**Ford Mondeo (10/2000 - 02/2007) 2.0 DI, -TDCi, -TDDi (engine code: D5BA, D6BA, FMBA, HJBA, HJBB, HJBC, N7BA, SDBA); 2.2 TDCi (engine code: QJBA, QJBB, QJBC, QJBD);**

**Ford Transit (01/2000 - 05/2006) 2.0 DI, -TDCi (engine code: ABFA, D3FA, F3FA, F1FA); 2.4 DI, -TDCi (engine code: D2FA, D2FB, D2FE, D4FA, F4FA, H9FA)**

**Jaguar X-Type (07/2003 - 10/2005) (engine code: R4-X404)**



Specifically cut-out socket allows for the quick and trouble-free removal and installation of screwed diesel injectors (waf 21mm) without any risk of damage to the fuel return tubes.

**Accessories (on demand):**

**1993 U-20 CODE:1436686 - Reversible ratchet**





## KL-0379-10

### Bolts for Subframe, Smart

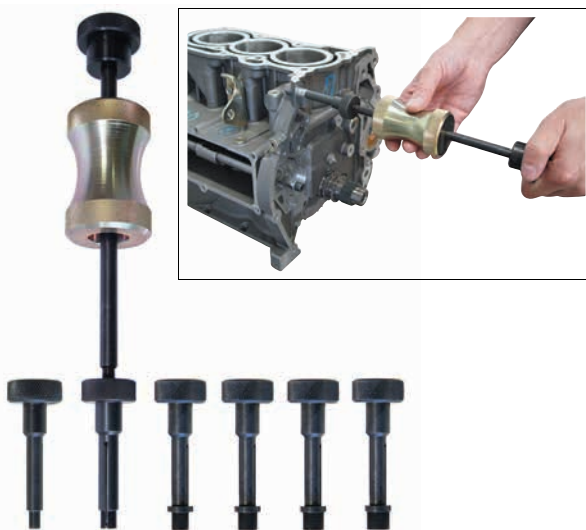
**Applicable to Smart Fortwo (450).**

The bolts are used to secure the subframe against further dropping when the latter needs to be lowered. Necessary when performing work on the engine, e.g. on starter motors, turbochargers etc.

Once the subframe has been supported (for example by means of a transmission jack) the original bolts can be replaced with our **KL-0379-10 - bolts for subframe**. This will enable the safe and correct lowering of the subframe by approx. 20cm.

**Scope of Delivery: KL-0379-10 Bolts for Subframe, Smart**

Part No.	Description	Qty
KL-0379-1001	Bolt (Length 300mm)	2
KL-0379-1002	Bolt (Length 260mm)	2
KL-0379-1003	Washer, Ø 12mm	4



## KL-0181-80

### Guide Sleeve Puller

Allows guide sleeves to be pulled out and knocked in without incurring any damage. The puller works on the principle of an internal collet chuck.

In engine and gearbox engineering, so-called guide sleeves are used for the accurate fixing of the housing halves. These guide sleeves, however, should not be installed or removed with tongs or a hammer.

**Scope of Delivery: KL-0181-80 Guide Sleeve Puller**

Part No.	Description	Qty
KL-0181-800	Slide Hammer Puller	1
KL-0181-8005	Collet Chuck for internal Ø of 5mm	1
KL-0181-8006	Collet Chuck for internal Ø of 6mm	1
KL-0181-8007	Collet Chuck for internal Ø of 7mm	1
KL-0181-8008	Collet Chuck for internal Ø of 8mm	1
KL-0181-8009	Collet Chuck for internal Ø of 9mm	1
KL-0181-8010	Collet Chuck for internal Ø of 10mm	1

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## KL-0178-21 K

### Seal Ring Installation Kit

**Applicable to virtually all VW-Audi engines.**

This tool enables the quick and professional installation of sealing rings on the crankshaft and camshaft without the need for dismantling the engine.

**Scope of Delivery: KL-0178-21 K Seal Ring Installation Kit**

Part No.	Description	Qty
KL-0178-211	Housing	1
KL-0178-2120	Guide Sleeve, Ø 10.5mm	1
KL-0178-2121	Guide Sleeve, Ø 12.5mm	1
KL-0178-2122	Guide Sleeve, Ø 14.5mm	1
KL-0178-2123	Guide Sleeve, Ø 16.5mm	1
KL-0178-2124	Guide Sleeve, Ø 18.5mm	1
KL-0178-2131	Pressure Ring, Ø 32mm	1
KL-0178-2132	Pressure Ring, Ø 35mm	1
KL-0178-2133	Pressure Ring, Ø 37mm	1
KL-0178-2141	Conical Sleeve, Ø 32mm	1
KL-0178-2142	Conical Sleeve, Ø 35mm	1
KL-0178-2143	Conical Sleeve, Ø 35mm	1
KL-0178-2144	Conical Sleeve, Ø 35mm	1
KL-0178-2145	Conical Sleeve, Ø 37mm	1
KL-0178-2190	Plastic Storage Case	1



## KL-0178-32 Seal Ring Removal Kit

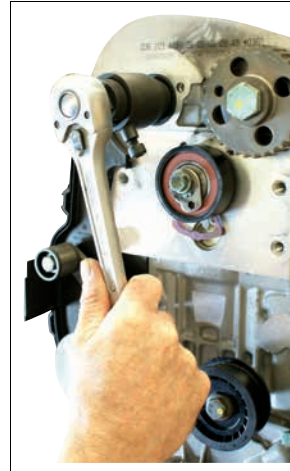
Universally suitable for shaft seals with inner diameter of 27mm, 32mm and 35mm; for example those on crankshafts, camshafts and intermediate shafts used on VW-Audi, Seat and Škoda engines.

The tool enables the easy and professional removal of seal rings from engine shafts such as crankshaft, camshaft or intermediate shaft without the need for dismantling the engine.

**Scope of Delivery:**

**KL-0178-32 Seal Ring Removal Kit**

Part No.	Description	Qty
KL-0178-321	Seal Removal Tool, Ø 27mm	1
KL-0178-322	Seal Removal Tool, Ø 32mm	1
KL-0178-323	Seal Removal Tool, Ø 35mm	1



## KL-0178-30 K Installation Kit for Sealing Flanges with Integrated Sender Wheel

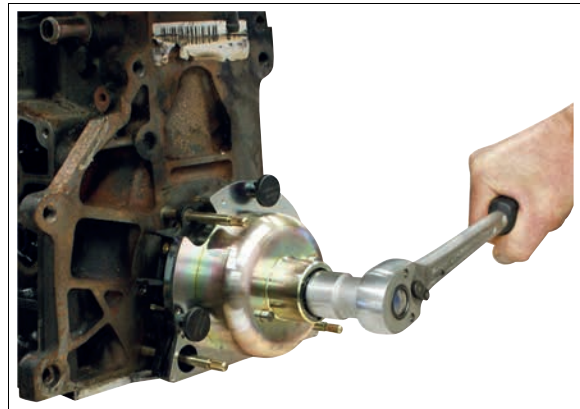
Applicable to VW-Audi, Seat, Škoda and Mitsubishi petrol and diesel engines; e.g. 1.0, 1.4, 1.4 16V, 1.4 FSI, 1.6 16V, 1.6 FSI, 1.9 TDI, 2.0 TDI, 2.0 TDI 16V, 2.0 SDI, 2.0 DI-D on Audi (A2, A3); VW (Polo, Golf IV/V/Plus, Passat); Seat (Arosa, Ibiza, Leon); Škoda (Fabia, Octavia) and Mitsubishi (Grandis, Outlander).

Essential tool for the quick and professional installation of crankshaft sealing rings with integrated sender wheel (gearbox side).

**Scope of Delivery:**

**KL-0178-30 Installation Kit for Sealing Flanges with Integrated Sender Wheel**

Part No.	Description	Qty
KL-0178-3010	Housing with Nut	1
KL-0178-3020	Pressure Plate	1
KL-0178-3030	Flange with Spindle	1
KL-0178-3040	Guide Bolt, Ø 7mm	3
KL-0178-3050	Guide Bolt, Ø 8mm	3
KL-1681-111	Adaptor (M14x1.25) for TDC Positioning	1
KL-0128-1	Dial Gauge, Ø 58mm	1
KL-0178-3090	Plastic Storage Case	1



6

## KL-0282-50 Puller for Timing Belt Sprocket (Crankshaft)

Suitable for use on VW-Audi 4 and 5-cylinder engines.

Designed to remove the crankshaft timing belt sprocket.

**Accessories (on demand):**

1993 U-20 CODE:1436686 - Reversible ratchet



1 B - Combination Spanner UD-Profile





## KL-0282-39

### Puller Tool Set, Pumpe-Düse (Unit Injector)

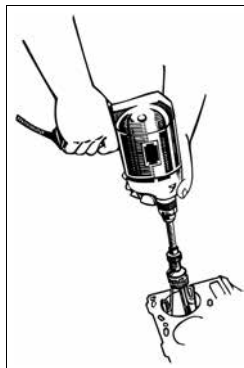
Applicable to the VW-Audi, Ford, Seat, Škoda 3- and 4-cylinder (1.2, 1.4, 1.6, 1.9 and 2.0 litre) TDI Pumpe-Düse (unit injector) engines as installed in: VW Eos, Golf, Jetta, Passat, Polo, Scirocco, Sharan, Tiguan, Touran; Audi A1, A3, A4, A5, A6, Q5, TT; Seat Altea, Exeo, Ibiza, Leon, Toledo; Škoda Fabia, Oktavia, Praktik, Roomster, Superb, Yeti.

(Engine codes: CAGA, CAGB, CAGC, CAHA, CAHB, CAYA, CAYB, CAYC, CBAA, CBAB, CBAC, CBBA, CBBB, CBDA, CBDB, CBDC, CEGA, CFFA, CFFB, CFFD, CFFE, CFGB, CFHA, CFHB, CFHC, CFHF, CFJA, CGLA, CGLB, CJAA, CJCA, CJCB, CLCA, CLCB, CLJA, CLLA, CMEA)

This tool set is designed for the easy and professional removal of camshaft hubs. It is required, for example, when replacing the cylinder head gasket on 1.9 litre engines, when removing and replacing the camshaft, and for the repair of engines/cylinder heads. The **KL-0282-391** reaction wrench enables the camshaft hub fixing screw to be loosened and tightened correctly. The **KL-0282-392** puller allows for the accurate removal of the camshaft hub from the camshaft taper.

Scope of Delivery: **KL-0282-39 Puller Tool Set, Pumpe-Düse (Unit Injector)**

Part No.	Description	Qty
KL-0282-391	Counter-Holding Tool	1
KL-0282-392	Puller for Camshaft Hub	1



## KL-0199-12

### Cylinder-Honing Tool, Ø 51-175mm

Comes with interchangeable hone stones and a flexible drive shaft to fit electric drills. The hone arms are self-spreading and tensioning. Suitable for tubes, bores, cylinders, bearing housings, etc.

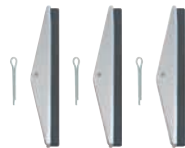
Technical Data:

Hone Tool:	Cylinder Ø: 51-175mm	Weight: 570g
Hone Stone:	Length: 100mm	

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Technical Data:

Dimension:	11x100mm
Weight:	57g

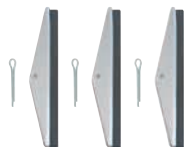


## KL-0199-125

### Cylinder Hone Set (3 Stones)

Technical Data:

Measure:	11x100mm
Weight:	57g

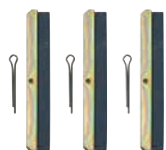


## KL-0199-126

### Cylinder Hone Set, hard (3 Stones)

Technical Data:

Dimension:	9x76mm
Weight:	57g



## KL-0199-121

### Cylinder Hone Set, 3 Stones (for old version)

Technical Data:

Dimension:	9x76mm
Weight:	57g



## KL-0199-122

### Cylinder Hone Set, hard, 3 Stones (for old version)

## KL-0126-..

### Piston Ring Compressors

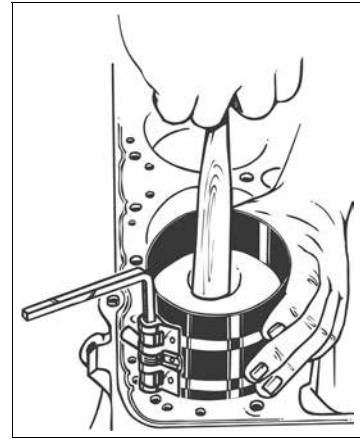
Infinitely adjustable, made of special spring steel.

## KL-0126-44

### Piston Ring Compressor, Ø 57-125mm

**Technical Data:**

Height:	39mm
Ø:	57-125mm
Weight:	170g



KL-0126-44

## KL-0126-45

### Piston Ring Compressor, Ø 40-75mm

**Technical Data:**

Height:	52mm
Ø:	40-75mm
Weight:	115g



KL-0126-45

## KL-0126-46

### Piston Ring Compressor, Ø 57-125mm

**Technical Data:**

Height:	89mm
Ø:	57-125mm
Weight:	315g



KL-0126-46

## KL-0126-47

### Piston Ring Compressor, Ø 90-175mm

**Technical Data:**

Height:	89mm
Ø:	90-175mm
Weight:	400g



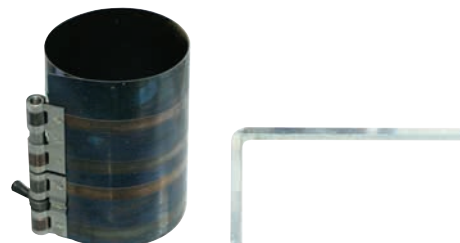
KL-0126-47

## KL-0126-48

### Piston Ring Compressor, Ø 90-175mm

**Technical Data:**

Höhe:	178mm
Ø:	90-175mm
Weight:	765g



KL-0126-48



## KL-0186-14 K (German Utility Model) Injector Nozzle Puller Set (Universal), with Accessories

Universally applicable to Diesel engines with injector nozzle connection thread M14x1.5 (external thread) or M17x1 (internal thread); for example:

- Mercedes: OM611, OM612, OM613, OM628\*\*, OM629\*\*, OM639, OM640, OM642\*\*, OM646, OM646 EVO, OM647, OM648
- Peugeot, Citroën, Fiat, Lancia, Suzuki: DV6\* [16V])
- Ford: 1.6 TDCi (G8DA, G8DB, HHDA, HJA, HHJB)
- VW-Audi: 2.5, 2.7 and 3.0 V6 Tdi
- Volvo: 1.6 D (D4164T), 2.2 D
- Mazda: Y6 (DV6\* [16V])

\*Note: Not suitable for Euro 5 [8V] engines.

\*\*Note: V-engines might require the removal of the engine due to space constraints.

The injector nozzle puller **KL-0186-14 K** enables the removal of very tight-fitting/seized injector nozzles to be performed in situ on the vehicle without the need for dismantling the cylinder head.

The special extraction bridge and pull spindle allow the user to extract the injector nozzle quickly and easily.

The extraction bridge is supported either by the support bolts that are screwed into the locating bores for the valve cover screws (M6) or by the support bars that are positioned on an even surface on the cylinder head. The spacer nuts allow the supporting surfaces to be levelled out, as well as the support bolts in bore holes with insufficient depth to be adjusted correctly.

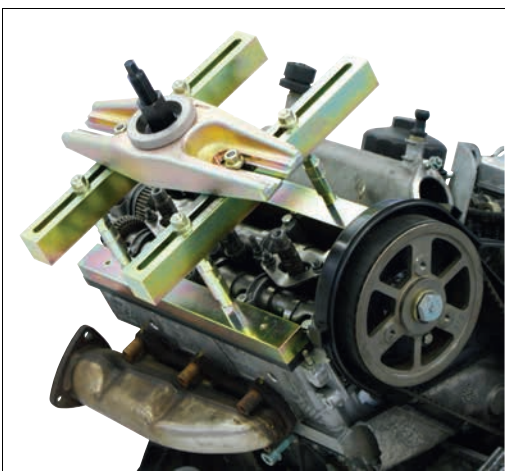
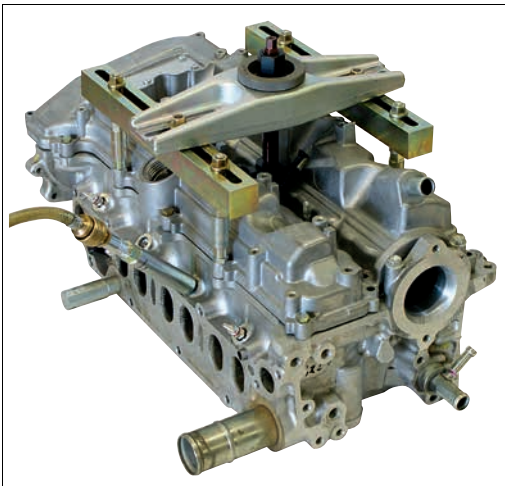
### Note:

Thanks to the various upgrade kits, which are available separately as accessories, the injector nozzle puller is also suitable for use on many other Common Rail Diesel engines such as PSA 2.7 and 3.0 Hdi (DT17, DT20), Fiat Ducato and Iveco 2.3, 2.4 and 3.0 JTD, Mercedes CDI (OM651), Renault, Nissan, Opel/Vauxhall 2.2, 2.5 and 3.0 dci (G9T, G9U and ZD3), as well as Toyota 2.2 (2AD-FHV, 2AD-FTV).

### Scope of Delivery:

#### KL-0186-14 K Injector Nozzle Puller Set (Universal), with Accessories

Part No.	Description	Qty
KL-0186-121	Extraction Bridge without Spindle	1
KL-0583-1005	Pull Spindle, M17x1, 200mm long	1
KL-0186-1215	Shoulder Nut, M16x1.5	1
KL-1383-1113	Pull Spindle, M14x1.5, 132mm long	1
KL-0369-4505 A	Special Bit Insert, Size (waf) 10mm	1
KL-0369-461 A	Special Socket, Size (waf) 29mm, 1/2" drive	1
KL-0186-122	Support Bar Set	1
KL-0186-1251	Spacer Nut Set, 5mm	1
KL-0186-1252	Spacer Nut Set, 10mm	1
KL-0186-1253	Spacer Nut Set, 15mm	1
KL-0014-0030	Molybdenum Disulphide Paste, 50g	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0186-1290	Plastic Storage Case	1

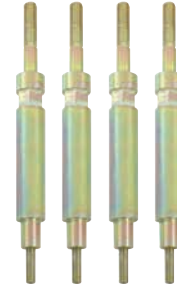


## KL-0186-1233

### Set of Support Bolts, M6, 145mm

Applicable to VW-Audi, Seat, Škoda 2.0 TDI (CFFB) Common Rail Diesel engines and Opel/Vauxhall 2.0 CDTi, VCDi (Z 20 DM, Z 20 DMH, Z 20 S) Common Rail Diesel engines. Installed, for example, in: VW Golf VI (5K), Eos (1F), Sharan (7N), Passat V (3C), Passat VI (36), Jetta (16), Passat CC (35), Tiguan (5N); Audi A3 (8P), Q3 (8U); Seat Alhambra (71); Škoda Superb II (3T); Opel/Vauxhall Antara, Chevrolet Captiva, Nubria estate car and Lacetti etc.

The KL-0186-1233 support bolt set upgrades the injector nozzle puller set KL-0186-14 K by making it also suitable for use on the above mentioned engines.



## KL-0186-1240

### Set of Support Bolts, M6, 170mm

Applicable to the BMW 1.6, 2.0 (N47) and 3.0 (N57), as well as MINI 1.6 and 2.0 (N47) Common Rail Diesel engines. For example, fitted to: BMW 1 Series (E81, E82, E87, E88; F20, F21), 2 Series (F22), 3 Series (E90, E91, E92, E93; F30, F31; F34), 4 Series (F32), 5 Series (E60, E61; F10, F11; F07), 6 Series (F06, F12, F13), 7 Series (F01, F02, F04), X1 (E84), X3 (E83; F25), X5 (E70; F15), X6 (71, E72), and MINI Clubman (R55), Clubvan (R55), Countryman (R60), Paceman (R61), Coupé (R58), Roadster (R59) etc.

The KL-0186-1240 support bolt set upgrades the KL-0186-14 K injector nozzle puller set by making it also suitable for use on the above mentioned engines.



## KL-0186-170

(Patented)

### Upgrade Kit for KL-0186-14 K

Applicable to Mercedes (OM651), Chevrolet (Z20DMH, Z20D1) and Opel/Vauxhall (Z22DMH) Diesel engines; as installed, for example, in: Mercedes C-Class (W204/S204 from 2007 onwards), E-Class (W212 from 2009 onwards), E-Class Coupé/Convertible (W207/C207 from 2009 onwards), GLK (X204 from 2008 onwards) and Sprinter II (906 from 2006 onwards); Chevrolet Cruze (J300), Orlando (J309) and Opel/Vauxhall Antara (L07).

The KL-0186-170 upgrade kit enables the injector nozzle puller set KL-0186-14 K also to be used on the above mentioned engines.

Scope of Delivery: KL-0186-170 Upgrade Kit for KL-0186-14 K (to form KL-0186-17 K)

Part No.	Description	Qty
KL-0186-1233	Set of Support Bolts, M6, 145mm long	1
KL-0186-1711	Pull Spindle, M18, 145mm long	1
KL-0369-420	Injector Nozzle Puller	1
KL-0369-511 A	Screw Tap, M7, with Drill Bit	1



## KL-0186-210

### Upgrade Kit for KL-0186-14 K

#### Renault/Nissan/Opel/Vauxhall

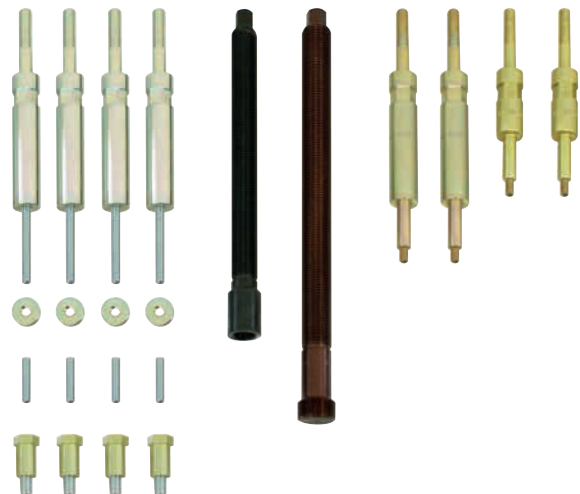
Applicable to the following Diesel engines: Renault / Nissan / Opel/Vauxhall 2.0 dCi (engine code M9R), 2.2 dCi (engine code G9T), 2.5 dCi (engine code G9U) and 3.0 dCi (engine code P9X\*, ZD3).

\*Note: V-engines might require the removal of the engine due to lack of space.

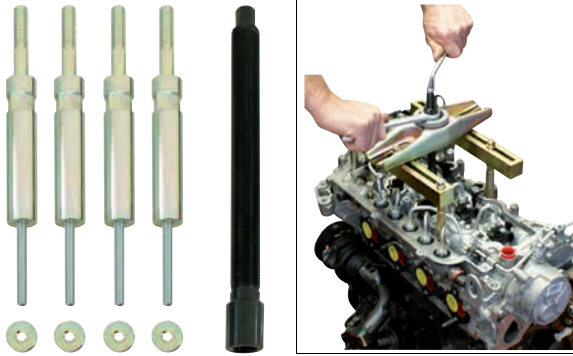
The KL-0186-210 tool kit is designed to upgrade the KL-0186-14 K injector nozzle puller set so that it also covers the above mentioned engines

Scope of Delivery: KL-0186-210 Upgrade Kit for KL-0186-14 K (to form KL-0186-21 K)

Part No.	Description	Qty
KL-0186-1234	Set of Support Bolts, M6, 113.5mm and 153.5mm	1
KL-0186-1236	Set of Support Bolts, M6	1
KL-0186-1235-2	Set Screw, M6x25mm	4
KL-0186-1255	Spacer Nut, M8	4
KL-0583-1032	Pull Spindle, M14x1.5, 200mm	1
KL-0186-1611 H	Pull Spindle, M20x1, 250mm	1







## KL-0186-200

### Upgrade Kit for KL-0186-14 K

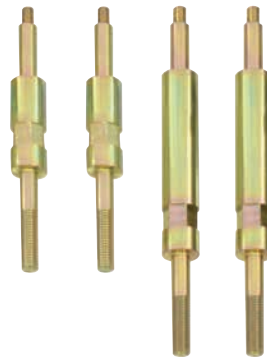
Renault, Nissan, Opel/Vauxhall

**Applicable to Renault, Nissan and Opel/Vauxhall 2.0 dci Diesel engines (engine code M9R). Injector nozzles with fuel line connection at the top.**

The **KL-0186-200** tool kit is designed to upgrade the **KL-0186-14 K** injector nozzle puller set so that it also covers the above mentioned engines.

**Scope of Delivery: KL-0186-200 Upgrade Kit for KL-0186-14 K**

Part No.	Description	Qty
KL-0186-1236	Set of Support Bolts, M6	1
KL-0583-1032	Pull Spindle, 200mm long	1



## KL-0186-1234

### Set of Support Bolts, M6 (113.5mm and 153.5mm)

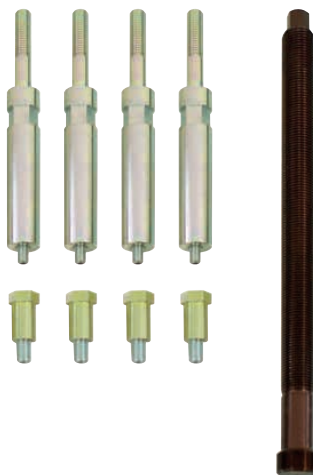
**Applicable to Renault, Nissan, Opel/Vauxhall 2.2 and 2.5 dCi Diesel engines (engine code: G9T and G9U) e.g. Renault: Avantime, Espace III, Espace IV, Laguna II, Master II, Master III, Traffic II, Vel Satis; Nissan: Interstar, Primastar and Opel/Vauxhall Movano, Vivaro.**

The **KL-0186-1234** support bolt set upgrades the injector nozzle puller set **KL-0186-14 K** by making it also suitable for use on the above mentioned engines.

**Scope of Delivery: KL-0186-1234 Set of Support Bolts M6 (113.5mm and 153.5mm)**

Part No.	Description	Qty
KL-0186-1234-1	Support Bolt, 113.5mm	2
KL-0186-1234-2	Support Bolt, 153.5mm	2

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## KL-0186-190

### Upgrade Kit for KL-0186-14 K

Renault, Nissan, Opel/Vauxhall

**Applicable to Renault, Nissan, Opel/Vauxhall 3.0 Common Rail Diesel engines (engine code: ZD3); e.g. fitted to Renault: Master (II and III), Master Maxi; Nissan: Cabstar (III), Interstar, Patrol (III), Patrol GR (II), Terano and Opel/Vauxhall: Movano (II). As well as for Renault 3.0 V6 Common Rail Diesel engines (engine code P9X\*) e.g. fitted to Renault: Espace (IV), Vel Satis.**

**\*Note:** V-engines might require the removal of the engine due to space constraints.

The **KL-0186-190** tool kit is designed to upgrade the **KL-0186-14 K** injector nozzle puller set so that it also covers the above mentioned engines.

**Scope of Delivery: KL-0186-190 Upgrade Kit for KL-0186-14 K**

Part No.	Description	Qty
KL-0186-1238	Set of Support Bolts, M6	1
KL-0186-1255	Spacer Nut, M8	4
KL-0186-1611 H	Pull Spindle, M20x1, 250mm	1



## KL-0186-130

### Upgrade Kit for KL-0186-14 K (1.9, 2.3, 2.4, 3.0 JTD)

**Applicable to Fiat Ducato, Citroën Relay/Jumper III, Peugeot Boxer III and Iveco 2.3, 2.4 and 3.0 JTD / HDI Common Rail Diesel engines (Engine Codes: F1CE3481E, F1CE3481M, F1CE3481N, F30DTE [F1CE3481D, F1CE3481DM, F1CE3481E, F1CE3481N] also Euro 5), as well as Alfa Romeo 1.9 JTD (Engine code: 937A5.000).**

The **KL-0186-130** upgrade kit enables the injector nozzle puller set **KL-0186-14 K** also to be used on the above mentioned engines.

**Scope of Delivery: KL-0186-130 Upgrade Kit (1.9, 2.3, 2.4, 3.0 JTD)**

Part No.	Description	Qty
KL-0186-1232	Support Bolt Set, M8 (4-piece)	1
KL-0583-1032	Pull Spindle, M14x1.5, 200mm long	1
KL-0186-1261	Set of Spacer Nuts, 10mm (4-piece)	1

## KL-0186-132

### Upgrade Kit for KL-0186-14 K in conjunction with KL-0186-130

**Applicable to the Fiat Ducato 3.0 JTD (Euro 5), Citroën Relay/Jumper III and Peugeot Boxer III 3.0 HDI (Euro 5) Common Rail Diesel engines.**  
(Engine codes: F1CE3481E, F1CE3481M, F1CE3481N, F30DTE [F1CE 3481D, F1CE 3481DM, F1CE 3481E, F1CE 3481N])

The **KL-0186-132** upgrade kit is used in conjunction with the injector nozzle puller set **KL-0186-14 K** and upgrade kit **KL-0186-130** to allow the removal of very tight-fitting/seized injector nozzles to be performed in situ on the vehicle without the need for dismantling the cylinder head.

The injector can be extracted in one piece quickly and easily using the special puller claw and the **KL-0583-1032 pull spindle** (supplied with **KL-0186-130**). The injector needs to be opened for this purpose.

**Procedure:** Unscrew injector top part, dismantle nozzle, screw in pull spindle, mount special puller claw, unscrew valve cover screws (4 screws) and replace with special support bolts, mount extraction bridge and screw on shoulder nut. Extract nozzle by turning the shoulder nut.



**Scope of Delivery: KL-0186-132 Upgrade Kit for KL-0186-13 KA**

Part No.	Description	Qty
KL-0186-1232 L	Set of Support Bolts M8, 180mm	1
KL-0186-1321	Special Injector Puller Claw	1
KL-0186-1322	Knurled Nut	1
KL-0186-1323	Hex Nut	1

## KL-0186-230

### Upgrade Kit for KL-0186-14 K

**Applicable to Ford, Fiat, Citroën and Peugeot 2.2 Diesel engines. Installed, for example, in: Ford Transit (from 2006 onwards), Tourneo; Fiat Ducato (from 2006 to 2012), Citroën Relay/Jumper III and Peugeot Boxer III. (Engine codes: 4HM, 4HU, 4HV, CYFA, CYFB, CYFC, DRFA, DRFB, DRFC, P22DTE, P8FB, PGFA, PGFB, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, USRA)**

The **KL-0186-230** upgrade kit enables the injector nozzle puller set **KL-0186-14 K** also to be used on the above mentioned engines.



**Scope of Delivery: KL-0186-230 Upgrade Kit for KL-0186-14 K**

Part No.	Description	Qty
KL-0186-1233	Set of Support Bolts, M6, 145mm	1
KL-1383-1022	Special Socket ,Size (waf) 25mm, 1/2" drive	1
KL-1383-1021	Pull Spindle, M25x1, 132mm long	1
KL-0186-2201	Special Insert	1
KL-0186-1611	Pull Spindle, M20x1, 145mm long	1



## KL-0186-150 A

### Upgrade Kit (PSA HDI) for KL-0186-14 K

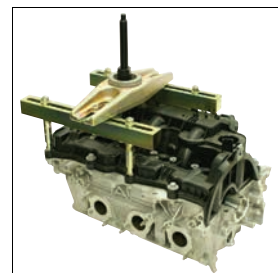
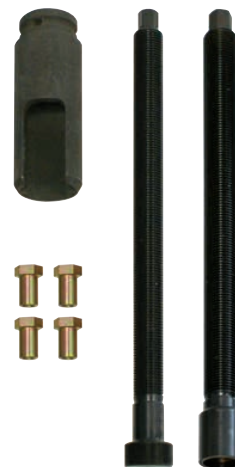
**Applicable to PSA 2.7 (DT17) and 3.0 (DT20) Hdi Diesel engines.**

The **KL-0186-150 A** upgrade kit enables the injector nozzle puller set **KL-0186-14 K** also to be used on the above mentioned engines.

**Note:**  
Be sure to read and observe the injector nozzle manufacturer's directions and specifications before re-installing an injector nozzle that had been opened. If necessary, have the injector nozzle tested and checked by an authorized workshop.

**Scope of Delivery: KL-0186-150 A Upgrade Kit (PSA HDI) for KL-0186-14 K**

Part No.	Description	Qty
KL-0186-1254	Set of Spacer Nuts, 20mm	1
KL-1383-1113 H	Pull Spindle, M14x1.25, 240mm long	1
KL-1383-1021 H	Pull Spindle, M25x1, 240mm long	1
KL-1383-1022	Special Socket, Size (waf) 25mm, 1/2" drive	1





**Technical Data:**

Connection thread of pull spindle KL-0583-1032:	M14x1.5
Connection thread of pull spindle KL-0186-1612:	M16x1
Connection thread of pull spindle KL-0186-1611:	M20x1

## KL-0186-1610 B Upgrade Kit for KL-0186-14 K

**Suitable for the Toyota, Lexus, Mini 1.4, 2.0, 2.2, 2.5 and 3.0 Common Rail Diesel engines as found in the following vehicles: Lexus IS; Mini One (R50); Toyota Auris, Avensis, Corolla Verso/CombiVan, Dyna, Hiace, Hiace/PowerVan, Hilux, IQ, Landcruiser/Prado, RAV4, Verso, Verso/Sportsvan, Yaris. (Engine codes: 1ND-TV, 1CD-FTV, 1KD-FTV, 2AD-FHV, 2AD-FTV, 2KD-FTV H, 2KD-FTV L, W17D14 [1ND])**

Used in conjunction with the **KL-0186-14 K** universal injector nozzle puller set with accessories, the **KL-0186-1610 B** upgrade kit enables the removal of very tight-fitting/seized injector nozzles to be performed directly on the vehicle without having to dismount the cylinder head.

The special extraction bridge and the pull spindle allow the user to extract the injector nozzle quickly and easily. The injector nozzle needs to be opened for this.

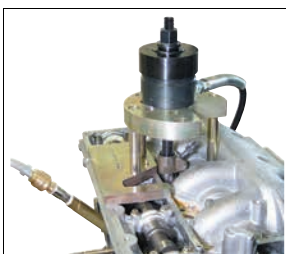
**Procedure:** Unscrew injector top part, disassemble remains of injector, screw in pull spindle, unscrew valve cover screws (4 screws), mount extraction bridge, screw on shoulder nut. Extract injector by turning the shoulder nut.

**Scope of Delivery: KL-0186-1610 B Upgrade Kit for KL-0186-14 K**

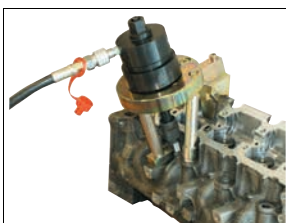
Part No.	Description	Qty
KL-0583-1032	Pull Spindle, M14x1.5, 200mm long	1
KL-0186-1611	Pull Spindle, M20x1, 145mm long	1
KL-0186-1612	Pull Spindle, M16x1, 145mm long	1
KL-0186-2201	Special Insert	1
KL-4417-17	Crowfoot Wrench, Size (waf) 17mm	1
KL-0186-1235-2	Set Screw, M6x25mm	4



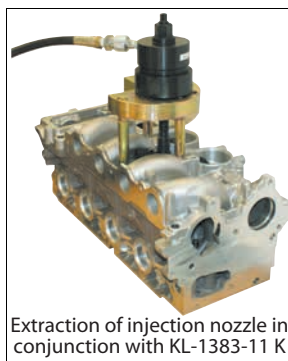
Extraction of injection nozzle in conjunction with KL-0583-10 K



Extraction of injection nozzle in conjunction with KL-1383-11 K



Extraction of injection nozzle in conjunction with KL-1283-11 K



Extraction of injection nozzle in conjunction with KL-1383-11 K

## KL-0040-170 A Hydraulic Cylinder, 17t (short design), with Shoulder Nut M16x1.5 and Safety Belt

Designed for the controlled extraction of very tight-fitting/seized injector nozzles. The tool is used in conjunction with a special pull spindle, a GEDORE Automotive injector nozzle puller with extraction bridge, and a GEDORE Automotive hydraulic pump with pressure gauge.

The **KL-0040-1700** hydraulic cylinder along with the special pull spindle (part no. ending with H) is placed onto the extraction bridge instead of the mechanical drive. The special pressure gauge (**KL-0040-2529** or **KL-0040-2528**) of the hydraulic pump (**KL-0215-35 M25** or **KL-0215-37 M25**) allows the applied force to be monitored during the extraction process. By fastening the **KL-0040-1790** safety belt (supplied with the kit) to the vehicle and to the hydraulic cylinder **KL-0040-1700**, the latter is prevented from falling.

**Note:** The injector nozzle pullers **KL-0369-46 K** and **KL-1383-10 K** additionally require the use of spacer ring **KL-0040-1751**.

**Technical Data:**

Maximum admissible force:	170kN (17t)
Maximum stroke:	15mm
Maximum oil volume:	41cm <sup>3</sup>
Maximum oil pressure:	700bar
Piston area:	27cm <sup>2</sup>
Cylinder outer diameter:	79mm
Cylinder overall height, (piston retracted):	89mm
Cylinder overall height, (piston extended):	104mm
Through-hole in tubular piston	Ø 16.5mm
Hydraulic fluid connection:	3/8"-18 NPT
Weight:	2.7kg

**Scope of Delivery: KL-0040-170 A Hydraulic Cylinder, 17t (short design)**

Part No.	Description	Qty
KL-0040-1700	Hydraulic Cylinder, 17t (short design)	1
KL-0040-1741-2	Shoulder Nut, M16x1.5	1
KL-0040-1790	Safety Belt	1

## KL-0040-175 B Hydraulic Drive Tool Kit with Safety Belt

This tool kit enables the controlled extraction of very tight-fitting/seized injector nozzles. It is used in conjunction with the injector nozzle puller set **KL-0186-14 K** and a hydraulic pump equipped with a GEDORE Automotive pressure gauge. The hydraulic cylinder with shoulder nut **KL-0040-170 A** together with a special pull spindle (part no. ending with H) is placed onto the extraction bridge instead of the mechanical drive. The special pressure gauge **KL-0040-2529/KL-0040-2528** of the hydraulic pump **KL-0215-35 M25/KL-0215-37 M25** allows the applied force to be monitored during the extraction process. The **KL-0040-1790** safety belt included in the kit is fixed to the vehicle and to the **KL-0040-1700** hydraulic cylinder to secure the latter against falling.



### Technical Data: KL-0040-170 A

Maximum admissible force:	170KN (17t)
Maximum stroke:	15mm
Maximum oil volume:	41cm <sup>3</sup>
Maximum oil pressure:	700bar
Piston area:	27cm <sup>2</sup>
Cylinder outer diameter:	79mm
Cylinder overall height, (piston retracted):	89mm
Cylinder overall height, (piston extended):	104mm
Through hole in tubular piston:	Ø 16.5mm
Hydraulic oil connection:	3/8"-18NPT
Weight:	2.7kg

### Technical Data: KL-0583-1005 HA

Connection thread:	M17x1
Length:	315mm

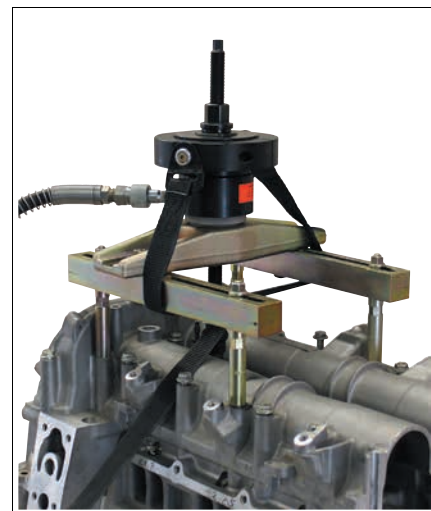
### Technical Data: KL-0583-1032 H

Connection thread:	M14x1.5
Length:	315mm

### Scope of Delivery:

#### KL-0040-175 B Hydraulic Drive Tool Kit with Safety Belt

Part No.	Description	Qty
KL-0040-170 A	Hydraulic Cylinder, 17t (short design)	1
KL-0583-1005 HA	Pull Spindle, M17x1, with Nut, 315mm long	1
KL-0583-1032 H	Pull Spindle, M14x1.5, 315mm long	1



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## KL-0215-35 M25 Hydraulic Hand Pump

The **KL-0215-35 M25** hydraulic hand pump is designed to be used as a drive for the hydraulic cylinders **KL-0040-2500** and **KL-0040-170**. The hydraulic pressure and necessary force can be monitored while operating the pump at pressure gauge **KL-0040-2529** (supplied with the tool set). The pressure gauge features an additional tonne scale specifically adapted to our **KL-0040-2500** hydraulic cylinder (17t).

### Technical Data:

Weight:	7.5kg
Max. pressure:	700bar

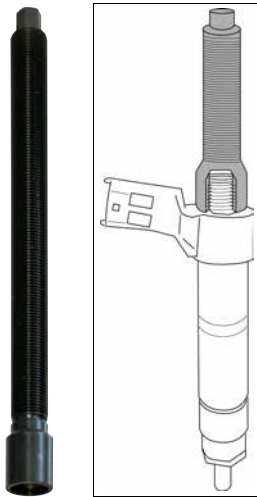
**Note:** A hydraulic hand pump with pressure gauge precisely adapted to the hydraulic cylinder **KL-0040-2200** (10t) or **KL-0040-2800** (28t) available upon request.

### Scope of Delivery:

#### KL-0215-35 M25 Hydraulic Hand Pump

Part No.	Description	Qty
KL-0215-33	Hydraulic Hand Pump (without hose)	1
KL-0215-31	Hydraulic Hose, 1.8m, with Hose-Side Connector	1
KL-0215-322	Cylinder-Side Connector, 1/4" NPT	1
KL-0040-2520	Adaptor, 3/8" NPT to 1/4" NPT	1
KL-0040-2529	Pressure Gauge	1





## KL-1383-1113 H

### Pull Spindle, M14x1.5

Suitable for injection nozzles with an M14x1.5 external thread.

#### Technical Data:

Connection thread:	M14x1.5
Length:	240mm

## KL-0583-1032 H

### Pull Spindle, M14x1.5

Suitable for injector nozzles with an M14x1.5 external thread.

#### Technical Data:

Connection thread:	M14x1.5
Length:	315mm



#### Technical Data:

Connection thread for injector nozzle:	M17x1
Union nut:	M27x1
Length:	240mm

#### Scope of Delivery: KL-0369-4606 HA Pull Spindle M17x1 with Nut

Part No.	Description	Qty
KL-0369-4606-1 H	Pull Spindle, M17x1, 240mm long	1
KL-0369-4606-2	Union Nut, M27x1	1

## KL-0369-4606 HA

### Pull Spindle, M17x1 with Nut M27x1, 240mm long

Suitable for injector nozzles with an M17x1 internal thread, such as BOSCH injectors. Installed in Alfa Romeo, BMW, Fiat, Mercedes, PSA (DW10) and Renault Diesel engines.

The pull spindle is required if the KL-0040-1700 hydraulic cylinder is to be used as a drive for the KL-0369-46 K, KL-1283-11 K, KL-1283-13 K, KL-1383-11 K, KL-1383-14 K and KL-1683-10 K injector nozzle pullers.

The advantage of using this tool is that - by screwing the pull spindle into the injector nozzle and additionally screwing the corresponding union nut onto the injector - the applied pulling force is evenly distributed on both threads. This allows even very tight-fitting/stuck injector nozzles to be extracted with ease.



#### Technical Data:

Connection thread for injector nozzle:	M17x1
Union nut:	M27x1
Length:	132mm

#### Scope of Delivery: KL-0369-4606 A Pull Spindle, M17x1 with Nut

Part No.	Description	Qty
KL-0369-4606-1	Pull Spindle, M17x1, 132mm long	1
KL-0369-4606-2	Union Nut, M27x1	1

## KL-0369-4606 A

### Pull Spindle, M17x1, with Nut, M27x1, 132mm long

Suitable for injector nozzles with an M17x1 internal thread, such as BOSCH injectors. Installed in Alfa Romeo, BMW, Fiat, Mercedes, PSA (DW10) and Renault Diesel engines.

The pull spindle upgrades our KL-0369-46 K, KL-1283-11 K, KL-1283-13 K, KL-1383-11 K and KL-1683-10 K tools sets so that these can also be used with very tight-fitting/seized injector nozzles. The advantage of using this tool is that - by screwing the pull spindle into the injector nozzle and additionally screwing the corresponding union nut onto the injector - the applied pulling force is evenly distributed on both threads. This allows even very tight-fitting/stuck injector nozzles to be extracted with ease.



#### Technical Data:

Connection thread for injector nozzle:	M17x1
Union nut:	M27x1
Length:	315mm

#### Scope of Delivery: KL-0583-1005 A Pull Spindle M17x1 with Nut

Part No.	Description	Qty
KL-0583-1005-1 H	Pull Spindle, M17x1, 315mm long	1
KL-0369-4606-2	Union Nut, M27x1	1

## KL-0583-1005 HA

### Pull Spindle M17x1 with Nut M27x1, 315mm long

Suitable for injector nozzles with an M17x1 internal thread, such as BOSCH injectors. Installed in PSA (DW10), BMW, Fiat, Mercedes Diesel engines.

The pull spindle is required if the KL-0040-170 A hydraulic cylinder is to be used as a drive for the injector nozzle pullers KL-0583-10 K and KL-0186-14 K respectively (in conjunction with the vehicle-specific upgrade kits KL-0186-1234, KL-0186-130, KL-0186-190, KL-0186-210).

The advantage of using this tool is that - by screwing the pull spindle into the injector nozzle and additionally screwing the corresponding union nut onto the injector - the applied pulling force is evenly distributed on both threads. This allows even very tight-fitting/stuck injector nozzles to be extracted with ease.

## KL-0583-1005 A

Pull Spindle, M17x1, with Nut, M27x1, 200mm long

Suitable for injector nozzles with an M17x1 internal thread, such as BOSCH injectors. Installed in PSA (DW10), BMW, Fiat, Mercedes Diesel engines.

The pull spindle complements the injector nozzle pullers KL-0583-10 K and KL-0186-14 K respectively (in conjunction with the vehicle-specific upgrade kits KL-0186-1234, KL-0186-130, KL-0186-190, KL-0186-210) making these suitable for use also on very tight-fitting/seized injector nozzles. The advantage of using this tool is that - by screwing the pull spindle into the injector nozzle and additionally screwing the corresponding union nut onto the injector - the applied pulling force is evenly distributed on both threads. This allows even very tight-fitting/stuck injector nozzles to be extracted with ease.



**Technical Data:**

Connection thread for injector nozzle:	M17x1
Union nut:	M27x1
Length:	200mm

**Scope of Delivery: KL-0583-1005 A Pull Spindle M17x1 with Nut**

Part No.	Description	Qty
KL-0583-1005-1	Pull Spindle, M17x1, 200mm long	1
KL-0369-4606-2	Union Nut, M27x1	1

## KL-0186-1711 H

Pull Spindle, M18

The pull spindle is needed if the KL-0040-170 A hydraulic cylinder is to be used as a drive for the injector nozzle puller KL-0186-14 K in conjunction with the vehicle-specific upgrade kit KL-0186-170.



**Technical Data:**

Connection thread:	M18
Length:	250mm



## KL-0186-1611 HA

Pull Spindle, M20x1 with 2 M25 Nuts, 250mm long

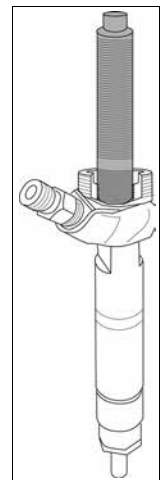
Suitable for injector nozzles equipped with an M20x1 internal thread, such as DENSO injectors. Installed in Renault Relay/Jumper III, Jumper; Fiat Ducato (250), Linea (110), Bravo (198), Doblo (263); Ford Transit; Isuzu D-Max / Rodeo, N-Series; Mazda 3, 5, 6, MPV; Mitsubishi L200, Pajero / Montero; Nissan X-Trail, Promera, Almera, Primera, Navara, Pathfinder; Opel/Vauxhall Astra H, Astra J, Combo, Corsa D, Meriva B, Insignia, Zafira B, Signum, Vectra C; Peugeot Boxer III; Renault Vel Satis, Espace; Saab 9-5; Toyota Avensis, Corolla Verso, RAV 4 III, Land Cruiser 90, Hiace IV, Hilux II, Hilux III, Dyna, Previa 1.6, 1.7, 2.2, 2.5 and 3.0 Common Rail Diesel engines.

The pull spindle is required if the KL-0040-170 A hydraulic cylinder is to be used as a drive for the universal KL-0186-14 K injector nozzle puller set in conjunction with the respective vehicle-specific upgrade kit KL-0186-1610 A or KL-0186-220.

The advantage of using this tool is that - by screwing the pull spindle into the injector nozzle and additionally screwing the corresponding union nut onto the injector - the applied pulling force is evenly distributed on both threads. This allows even very tight-fitting/seized injector nozzles to be extracted with ease.



(Engine codes: 198A3.000, 1KD-FTV, 2AD-FT, 2KD-FTV, 4D56, 4HM, 4HU, 4HV, 4JJ1, 4JK1, 4M41, 6DE1, A16FDH, A16FDL, A17DT, A17DTC, A17DTJ, A17DTR, CD-FTV, CYFA, CYFB, CYFC, DRFA, DRFB, DRFC, P22DTE, P8FA, P8FB, P9X, PGFA, PGFB, QVFA, QWFA, RF5C, RF-DI, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, USRA, YD22, YD25.)



**Technical Data:**

Connection thread:	M20x1
Union nut (KL-0186-1611-2):	M25x0.5
Union nut (KL-0186-1611-3):	M25x0.75
Length:	250mm

**Scope of Delivery: KL-0186-1611 HA Pull Spindle M20x1 with 2 Nuts**

Part No.	Description	Qty
KL-0186-1611-1 H	Pull Spindle M20x1	1
KL-0186-1611-2	Union Nut M25x0.5	1
KL-0186-1611-3	Union Nut M25x0.75	1

## KL-0186-1611 A

Pull Spindle, M20x1, with 2 Nuts M25, 145mm long

For application, see KL-0186-1611 HA.

(Engine codes: 198A3.000, 1KD-FTV, 2AD-FT, 2KD-FTV, 4D56, 4HM, 4HU, 4HV, 4JJ1, 4JK1, 4M41, 6DE1, A16FDH, A16FDL, A17DT, A17DTC, A17DTJ, A17DTR, CD-FTV, CYFA, CYFB, CYFC, DRFA, DRFB, DRFC, P22DTE, P8FA, P8FB, P9X, PGFA, PGFB, QVFA, QWFA, RF5C, RF-DI, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, USRA, YD22, YD25.)

The pull spindle upgrades the universal injector nozzle puller set KL-0186-14 K (in conjunction with the respective vehicle-specific upgrade kit KL-0186-1610 A or KL-0186-220) by making it suitable for use also on very tight-fitting/seized injector nozzles.

The advantage of using this tool is that - by screwing the pull spindle into the injector nozzle and additionally screwing the corresponding union nut onto the injector - the applied pulling force is evenly distributed on both threads. This allows even very tight-fitting/stuck injector nozzles to be extracted with ease.



**Technical Data:**

Connection thread:	M20x1
Union nut (KL-0186-1611-2):	M25x0.5
Union nut (KL-0186-1611-3):	M25x0.75
Length:	145mm

**Scope of Delivery: KL-0186-1611 A Pull Spindle M20x1, with 2 Nuts**

Part No.	Description	Qty
KL-0186-1611-1	Pull Spindle, M20x1, 145mm long	1
KL-0186-1611-2	Union Nut, M25x0.5	1
KL-0186-1611-3	Union Nut, M25x0.75	1



## KL-0186-1612 H

### Pull Spindle, M16x1, 260mm long

**Suitable for injector nozzles with an M16x1 internal thread, such as Denso injectors. Installed in Toyota Diesel engines.**

The pull spindle is required if the **KL-0040-170 A** hydraulic cylinder is to be used as a drive for the injector nozzle puller **KL-0186-14 K** in conjunction with the vehicle-specific upgrade kit **KL-0186-1610 B**.



## KL-1383-1021 H

### Pull Spindle, M25x1

**Suitable for injector nozzles with an M25x1 internal thread such as Siemens injectors. Installed in PSA Diesel engines (DW10) etc.**

The pull spindle is needed if the **KL-0040-170 A** hydraulic cylinder is to be used as a drive for the **KL-1383-14 K** injector nozzle puller set.

**Technical Data:**

Connection thread:	M25x1
Length:	240mm



## KL-1383-1221 H

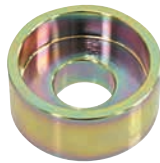
### Pull Spindle, M27x1

**Suitable for injector nozzles having an M27x1 internal thread. For example, Siemens injectors as installed in PSA Diesel engines (DW10) etc.**

This pull spindle is needed if the **KL-0040-170 A** hydraulic cylinder is to be used as a drive for the injector nozzle pullers **KL-1383-12 K** and **KL-1383-14 K** respectively.

**Technical Data:**

Connection thread:	M27x1
Length:	240mm



## KL-0040-1751

### Spacer Ring

This tool is needed if the hydraulic cylinder **KL-0040-170 A** is to be used as a drive for the injector nozzle puller **KL-0369-46 K** and **KL-1383-10 K** respectively.

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## KL-0186-100 (Patented)

### Injector Nozzle Puller for M12x1, without Slide Hammer, VW-Audi/BMW/Mercedes/PSA

**Applicable to the following Diesel engines: VW-Audi, Seat, Škoda (CFHA, CFJA, CFFB, CAYC); BMW (M47/M57); Mercedes (OM611, OM612, OM613, OM646, OM647, OM648) and PSA (DW10).**

This puller allows for the professional extraction of injectors without having to open or dismantle them. A slide hammer such as **KL-0369-4100** (1.5kg) or **KL-0049-300** (4.8kg) is needed to operate the tool.

An indispensable tool when changing a timing chain or removing the valve cover/replacing the valve cover seal.

The injector nozzle puller is fixed to the high-pressure fuel supply line bore (M12x1) on the injector with a special screw. Thanks to its particular design, the puller allows for optimum power transmission without the risk of damaging the valve cover or the injector nozzle.

The stabilising screws enable the tool to be individually adjusted to the injector nozzle top part whilst, at the same time, ensuring the greatest possible stability of the injector nozzle puller.

**Scope of Delivery: KL-0186-100 Injector Nozzle Puller for M12x1, without Slide Hammer, VW-Audi/BMW/Mercedes/PSA**

Part No.	Description	Qty
KL-0186-1001	Injector Nozzle Puller Base Body for M12x1	1
KL-0186-1002	Special Screw, M12x1	1
KL-0186-1003	Special Screw, M12x1 (long)	1
KL-0186-1004	Sleeve	1

## KL-0186-101

(Patented)

Injector Nozzle Puller for M12x1,  
with Slide Hammer (1.5kg),  
VW-Audi/BMW/Mercedes/PSA

**Applicable to the following Diesel engines: VW-Audi, Seat, Škoda (CFHA, CFJA, CFFB, CAYC); BMW (M47/M57); Mercedes (OM611, OM612, OM613, OM646, OM647, OM648) and PSA (DW10).**

This puller allows for the professional extraction of injectors without having to open or dismantle them.

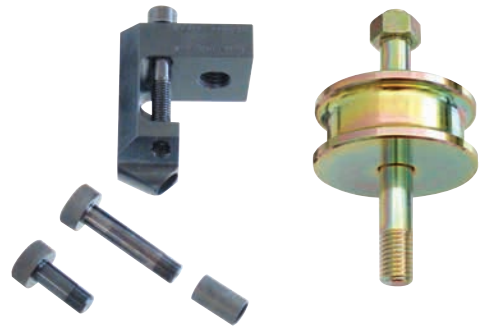
An indispensable tool when changing a timing chain or removing the valve cover/ replacing the valve cover seal.

The injector nozzle puller is fixed to the high-pressure fuel supply line bore (M12x1) on the injector with a special screw. Thanks to its particular design, the puller allows for optimum power transmission without the risk of damaging the valve cover or the injector nozzle.

The stabilising screws enable the tool to be individually adjusted to the injector nozzle top part whilst, at the same time, ensuring the greatest possible stability of the injector nozzle puller.

**Scope of Delivery: KL-0186-101 Injector Nozzle Puller for M12x1,  
with Slide Hammer 1.5kg, VW-Audi/BMW/Mercedes/PSA**

Part No.	Description	Qty
KL-0186-100	Injector Nozzle Puller for M12x1, without Slide Hammer	1
KL-0369-4100	Slide Hammer Base Tool, 1.5kg	1



## KL-0186-102

(Patented)

Injector Nozzle Puller for M12x1,  
with Slide Hammer (4.8kg),  
VW-Audi/BMW/Mercedes/PSA

**Applicable to the following Diesel engines: VW-Audi, Seat, Škoda (CFHA, CFJA, CFFB, CAYC); BMW (M47 / M57); Mercedes (OM611, OM612, OM613, OM646, OM647, OM648) and PSA (DW10).**

This puller allows for the professional extraction of injectors without having to open or dismantle them.

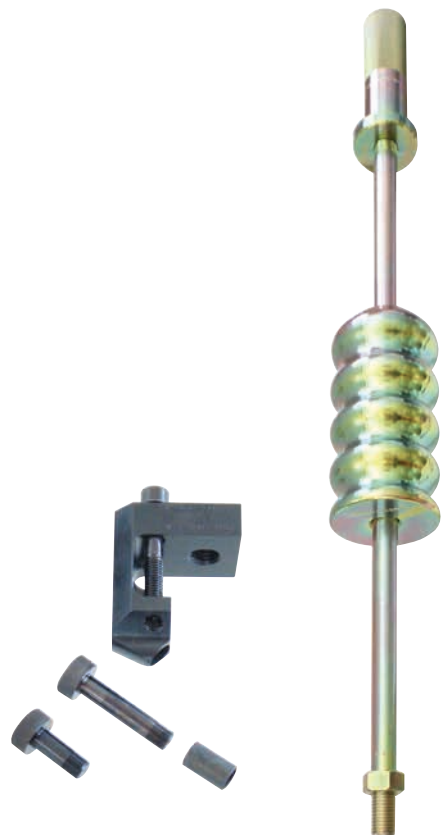
An indispensable tool when changing a timing chain or removing the valve cover/ replacing the valve cover seal.

The injector nozzle puller is fixed to the high-pressure fuel supply line bore (M12x1) on the injector with a special screw. Thanks to its particular design, the puller allows for optimum power transmission without the risk of damaging the valve cover or the injector nozzle.

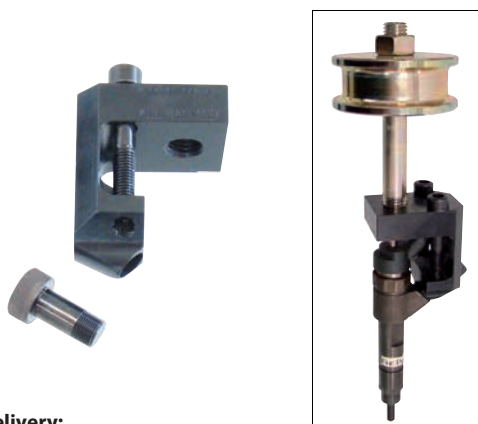
The stabilising screws enable the tool to be individually adjusted to the injector nozzle top part whilst, at the same time, ensuring the greatest possible stability of the injector nozzle puller.

**Scope of Delivery: KL-0186-102 Injector Nozzle Puller for M12x1,  
with Slide Hammer 4.8kg, VW-Audi/BMW/Mercedes/PSA**

Part No.	Description	Qty
KL-0186-100	Injector Nozzle Puller for M12x1, without Slide Hammer	1
KL-0049-300	Slide Hammer Base Tool, 4.8kg	1







## KL-0186-110 (Patented)

### Injector Nozzle Puller for M14x1.5, without Slide Hammer, VW/Fiat/IVECO

**Applicable to Fiat 2.8 JTD Diesel engines; e.g. Ducato, IVECO Daily and VW 2.0 TDI Common Rail engines (first and second generation) e.g. Golf 6, Tiguan, Touran (engine code CFFB) etc.**

This tool enables the professional removal of injection nozzles without having to open or dismantle them. The slide hammer **KL-0369-4100** (1.5kg) or **KL-0049-300** (4.8kg) is needed to operate the tool.

An indispensable tool when changing a timing chain or removing the valve cover/ replacing the valve cover seal.

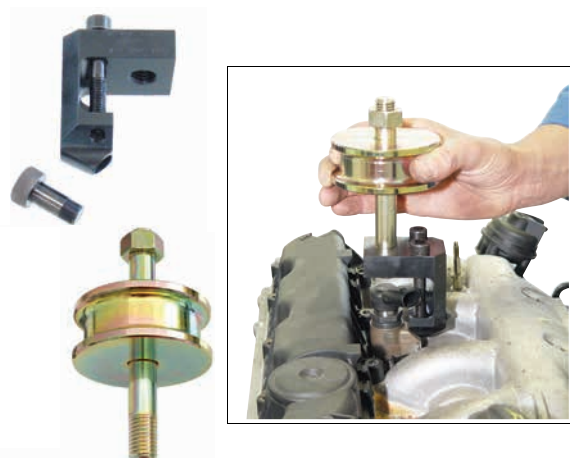
The injector nozzle puller is fixed to the high-pressure fuel supply line bore (M14x1.5) on the injector with a special screw. Thanks to its particular design, the puller allows for optimum power transmission without the risk of damaging the valve cover or the injector nozzle.

The stabilising screws enable the tool to be individually adjusted to the injector nozzle top part whilst, at the same time, ensuring the greatest possible stability of the injector nozzle puller.

#### Scope of Delivery:

#### KL-0186-110 Injector Nozzle Puller without Slide Hammer

Part No.	Description	Qty
KL-0186-1101	Injector Nozzle Puller Base Body for M14x1.5	1
KL-0186-1102	Special Screw, M14x1.5	1



## KL-0186-111 (Patented)

### Injector Nozzle Puller for M14x1.5, with Slide Hammer (1.5kg), VW/Fiat/IVECO

**Applicable to the Fiat 2.8 JTD Diesel engines; e.g. Ducato, IVECO Daily, and VW 2.0 TDI Common Rail engines (first and second generation) as fitted to Golf 6, Tiguan, Touran (Engine code CFFB) etc.**

This tool enables the professional removal of injection nozzles without having to open or dismantle them.

An indispensable tool when changing a timing chain or removing the valve cover/ replacing the valve cover seal.

The injector nozzle puller is fixed to the high-pressure fuel supply line bore (M14x1.5) on the injector with a special screw. Thanks to its particular design, the puller allows for optimum power transmission without the risk of damaging the valve cover or the injector nozzle.

The stabilising screws enable the tool to be individually adjusted to the injector nozzle top part whilst, at the same time, ensuring the greatest possible stability of the injector nozzle puller.

#### Scope of Delivery: KL-0186-111 Injector Nozzle Puller

Part No.	Description	Qty
KL-0186-110	Injector Nozzle Puller for M14x1.5	1
KL-0369-4100	Slide Hammer Base Tool, 1.5kg	1

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## KL-0186-112 (Patented)

### Injector Nozzle Puller for M14x1.5 with Slide Hammer (4.8kg), VW/Fiat/IVECO

**Applicable to the Fiat 2.8 JTD Diesel engines; e.g. Ducato, IVECO Daily, and VW 2.0 TDI Common Rail engines (first and second generation) as fitted to Golf 6, Tiguan, Touran (Engine code CFFB) etc.**

This tool enables the professional removal of injection nozzles without having to open or dismantle them.

An indispensable tool when changing a timing chain or removing the valve cover/ replacing the valve cover seal.

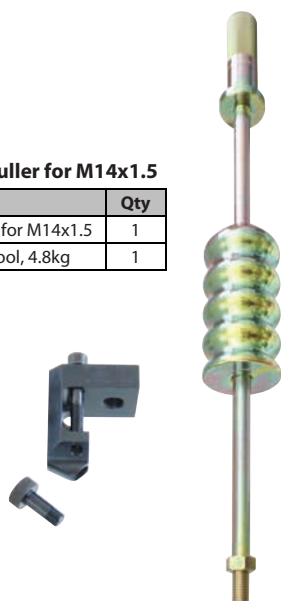
The injector nozzle puller is fixed to the high-pressure fuel supply line bore (M14x1.5) on the injector with a special screw. Thanks to its particular design, the puller allows for optimum power transmission without the risk of damaging the valve cover or the injector nozzle.

The stabilising screws enable the tool to be individually adjusted to the injector nozzle top part whilst, at the same time, ensuring the greatest possible stability of the injector nozzle puller.

#### Scope of Delivery:

#### KL-0186-112 Injector Nozzle Puller for M14x1.5

Part No.	Description	Qty
KL-0186-110	Injector Nozzle Puller for M14x1.5	1
KL-0049-300	Slide Hammer Base Tool, 4.8kg	1



## KL-0186-31 K (Patented) Injector Nozzle Puller Set, without Drive

**Universally suitable for injector nozzles having an M16x1, M17x1, M18, M20x1, M25x1, M27x1 internal thread Ø, as well as with external thread Ø M14x1.5.**

The injector nozzle puller set is designed for the extraction of injector nozzles that are only slightly stuck/seized in place. It is used in conjunction with slide hammer puller **KL-0369-411** or **KL-0369-412**.

The tool set includes various special sockets and pull spindles, to allow virtually any common injector nozzle to be dismantled and removed.

### Procedure:

Unscrew injector nozzle top part and threaded ring. Depending on the injector nozzle design, screw pull spindle either into or onto the injector. Then, screw slide hammer puller **KL-0369-411** or **KL-0369-412** (accessory) onto pull spindle. Remove injector nozzle by operating the slide hammer.

### Scope of Delivery:

#### KL-0186-31 K Injector Nozzle Puller Set, without Drive

Part No.	Description	Qty
KL-0186-1611 A	Pull Spindle, M20x1; with 2 Union Nuts, M25	1
KL-0186-1612	Pull Spindle, M16x1, 145mm	1
KL-1383-1113	Pull Spindle, M14x1.5, 132mm	1
KL-0369-4606 A	Pull Spindle, M17x1; with Union Nut M27x1	1
KL-1383-1021	Pull Spindle, M25x1, 132mm	1
KL-1383-1221	Pull Spindle, M27x1, 127mm	1
KL-0186-1711	Pull Spindle, M18, 145mm	1
KL-4417-17	Crowfoot Wrench, Size (waf) 17mm	1
KL-1383-1022	Special Socket, Size (waf) 25mm	1
KL-1383-1222 A	Special Socket, Size (waf) 27mm	1
KL-0369-461 A	Special Socket, Size (waf) 29mm	1
KL-1283-103	Special Socket, Size (waf) 30mm	1
KL-0369-4505 A	Special Bit Insert, Size (waf) 10mm	1
KL-0186-2201	Special Insert	1
KL-0369-420	Injector Nozzle Puller	1
KL-0369-4111	Injector Nozzle Puller Adaptor, M18 to M16x1.5	1
KL-0186-3190	Plastic Storage Case	1



### Technical Data:

Pull spindles for external thread:	M14x1.5
Pull spindles for internal thread:	M16x1, M17x1, M18, M20x1, M25x1, M27x1
Union nuts:	M27x1, M25x0.5, M25x0.75

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## KL-1383-1113 Pull Spindle, M14x1.5

**Suitable for injection nozzles with an M14x1.5 external thread, e.g. Bosch or Delphi injector nozzles as installed in Mercedes, PSA and VW Diesel engines; e.g. engine codes: OM629, OM642, OM646; DV4 DW12 and CBD etc.**



### Technical Data:

Connecting thread injector nozzle:	M14x1.5
Connecting thread slide hammer:	M16x1.5
Length:	127mm

## KL-0369-4606 A Pull Spindle, M17x1, with Nut, M27x1, 132mm long

**Suitable for injector nozzles with an M17x1 internal thread, such as BOSCH injectors. Installed in Alfa Romeo, BMW, Fiat, Mercedes, PSA (DW10) and Renault Diesel engines.**

The pull spindle upgrades our **KL-0369-46 K**, **KL-1283-11 K**, **KL-1283-13 K**, **KL-1383-11 K** and **KL-1683-10 K** tools sets so that these can also be used with very tight-fitting/seized injector nozzles.

The advantage of using this tool is that - by screwing the pull spindle into the injector nozzle and additionally screwing the corresponding union nut onto the injector - the applied pulling force is evenly distributed on both threads. This allows even very tight-fitting/stuck injector nozzles to be extracted with ease.



### Technical Data:

Connection thread for injector nozzle:	M17x1
Union nut:	M27x1
Length:	132mm

### Scope of Delivery:

#### KL-0369-4606 A Pull Spindle, M17x1, with Nut, M27x1

Part No.	Description	Qty
KL-0369-4606-1	Pull Spindle, M17x1, 132mm long	1
KL-0369-4606-2	Union Nut, M27x1	1



**Technical Data:**

Connecting thread injector nozzle:	M25x1
Connecting thread slide hammer:	M16x1.5
Length:	127mm

**KL-1383-1021**  
Pull Spindle, M25x1

Suitable for injection nozzles with M25x1 internal thread, such as Siemens injector nozzles fitted to PSA Diesel engines (DW10) etc.

**Note:**  
Special socket **KL-1383-1022** is required to remove the nozzle head.



**Technical Data:**

Connecting thread injection nozzle:	M27x1
Connecting thread slide hammer:	M16x1.5
Length:	127mm

**KL-1383-1221**  
Pull Spindle, M27x1

Suitable for injection nozzles with M27x1 internal thread, such as Siemens injector nozzles fitted to PSA Diesel engines (DW10) etc.

**Note:**  
Special socket **KL-1383-1222** is required to remove nozzle head.



**KL-0369-411**  
Injector Nozzle Puller  
with Slide Hammer (4.8kg)

This tool is designed for the extraction of injection nozzles which are only slightly seized in place. It is used in conjunction with the pull spindle **KL-0369-4606** (external connection thread M17x1), **KL-1383-1021** (external connection thread M25x1), **KL-1383-1221** (external connection thread M27x1) or **KL-1383-1113** (internal connection thread M14x1.5). Consists of slide hammer puller **KL-0049-300** and adaptor **KL-0369-4111**.

**Technical Data:**

Connection thread:	M16x1.5
Overall length:	710mm
Hammer weight:	4.8kg



**KL-0369-412**  
Injector Nozzle Puller  
with Slide Hammer (1.5kg)

This tool is designed for the extraction of injection nozzles which are only slightly seized in place. It is used in conjunction with the pull spindle **KL-0369-4606** (external connection thread M17x1), **KL-1383-1021** (external connection thread M25x1), **KL-1383-1221** (external connection thread M27x1) or **KL-1383-1113** (internal connection thread M14x1.5). Consists of slide hammer **KL-0369-4100** and adaptor **KL-0369-4111**.

**Technical Data:**

Connecting thread:	M16x1.5
Overall length:	195mm
Hammer weight:	1.5kg

## KL-0186-3101

### Adaptor, M16 to M16x1.5

The **KL-0186-3101** adaptor is designed to be used in conjunction with a slide hammer puller (accessory) having an **M16** retaining thread and a **GEDORE Automotive** pull spindle such as **KL-0186-1611 A**, **KL-0186-1612**, **KL-1383-1113**, **KL-0369-4606 A**, **KL-1383-1021**, **KL-1383-1221**, **KL-0186-1711** etc. It, thus, allows for the extraction of injector nozzles that are only slightly stuck/seized in place.



**Technical Data:**

Adaptor:	M16 to M16x1.5
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## KL-0186-3102

### Adaptor, M22x2 to M16x1.5

The **KL-0186-3102** adaptor is designed to be used in conjunction with a slide hammer puller (accessory) having an **M22x2** retaining thread and a **GEDORE Automotive** pull spindle such as **KL-0186-1611 A**, **KL-0186-1612**, **KL-1383-1113**, **KL-0369-4606 A**, **KL-1383-1021**, **KL-1383-1221**, **KL-0186-1711** etc. It, thus, allows for the extraction of injector nozzles that are only slightly stuck/seized in place.



**Technical Data:**

Adaptor:	M22x2 to M16x1.5
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## KL-0186-3103

### Adaptor, M22x2 to M18

The **KL-0186-3103** adaptor is designed for the extraction of injector nozzles that are only slightly seized in place. It is used in conjunction with a slide hammer having an **M22x2** retaining thread (available as accessory) and the **GEDORE Automotive** injector nozzle puller **KL-0186-100** or **KL-0186-110** respectively.



## KL-1383-1022

### Special Socket, Size (waf) 25mm, 1/2" Drive

Necessary to loosen/unscrew the nozzle head, e.g. on Siemens injector nozzles as installed in 2.0 DW10 HDI engines etc.



**Technical Data:**

Size (waf):	25mm
Drive:	1/2"
Length:	100mm

## KL-1383-1222 A

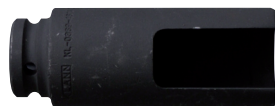
### Special Socket, Size (waf) 27mm



## KL-0369-461 A

### Special Socket, Size (waf) 29mm, 1/2" Drive

Necessary to loosen/unscrew the nozzle head, e.g. on Bosch injector nozzles as found in CDI and HDI engines etc.



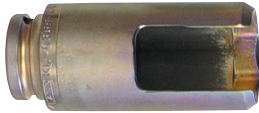
**Technical Data:**

Size (waf):	29mm
Drive:	1/2"
Length:	100mm

**Accessories (on demand):**

**1993 U-20** CODE:1436686 - Reversible ratchet





## KL-1283-103

### Special Socket, Size (waf) 30mm, 1/2" Drive

Necessary to loosen/unscrew the nozzle top part, e.g. on Bosch injector nozzles installed in Renault, Nissan 1.9 F9Q engines etc.

**Technical Data:**

Size (waf):	30mm
Drive:	1/2"
Length:	100mm



## KL-0369-4505 A

### Special Bit Insert, Size (waf) 10mm

Necessary to remove the threaded ring, e.g. on Bosch injector nozzles installed in CDI and HDI engines etc.

**Technical Data:**

Size (waf):	10mm
Drive:	10mm
Length:	38mm

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## KL-0283-60 K

### Injector Nozzle Puller Set, VW

Suitable for use on VW-Audi Diesel engines e.g.:

- 1.4 SDI / TDI
- 1.9 D / SDI / TDI / TDI (PD)
- 2.0 TDI SDI / TDI (PD)
- 2.0 TDI (PD 4-Valve)
- 2.0 TDI (Common Rail)
- 2.5 TDI
- 2.5 TDI (PD)
- 2.8 TDI (PD)
- 2.7 / 3.0 TDI (Common Rail)
- 4.2 TDI (Common Rail)

This tool allows for the quick and professional extraction of injector nozzles and unit-injector (PD) elements from Diesel engines.

**Advantage:**

- Its special composition makes this VW injector nozzle puller set the ideal tool for garages and workshops.
- Substantial time savings and professional working.



**Scope of Delivery: KL-0283-60 K Injector Nozzle Puller Set, VW**

Part No.	Description	Qty
KL-0283-6011	Injector Nozzle Puller Adaptor, VW	1
KL-0283-6012	Injector Nozzle Puller Adaptor, M14x1.5	1
KL-0283-6013	Injector Nozzle Puller Adaptor, M10	1
KL-0283-6014	Injector Nozzle Puller Adaptor, VW	1
KL-0283-602	Injector Nozzle Puller, without Slide Hammer, VW PD 2.0 16V	1
KL-0049-101	Slide Hammer (base tool)	1
KL-0049-1003	Hex Nut, M10	1
KL-0283-6090	Plastic Storage Case	1

## KL-0283-600 K

### Injector Nozzle Puller Set without Slide Hammer, VW

Suitable for use on VW-Audi Diesel engines e.g.:

- 1.4 SDI / TDI
- 1.9 D / SDI / TDI / TDI (PD)
- 2.0 TDI SDI / TDI (PD)
- 2.0 TDI (PD 4-Valve)
- 2.0 TDI (Common Rail)
- 2.5 TDI
- 2.5 TDI (PD)
- 2.8 TDI (PD)
- 2.7 / 3.0 TDI (Common Rail)
- 4.2 TDI (Common Rail)

This tool is designed for the quick and professional extraction of injector nozzles and unit-injector (PD) elements from Diesel engines. Set is used in conjunction with slide hammer KL-0049-100.

**Advantage:**

- Substantial time savings and professional working.

**Scope of Delivery: KL-0283-600 K Injector Nozzle Puller Set without Slide Hammer**

Part No.	Description	Qty
KL-0283-6011	Injector Nozzle Puller Adaptor, VW	1
KL-0283-6012	Injector Nozzle Puller Adaptor, M14x1.5	1
KL-0283-6013	Injector Nozzle Puller Adaptor, M10	1
KL-0283-6014	Injector Nozzle Puller Adaptor, VW	1
KL-0283-602	Injector Nozzle Puller without Slide Hammer, VW PD 2.0 16V	1
KL-0283-6090	Plastic Storage Case	1



## KL-0283-601 K

### Injector Nozzle Puller Set (small set), VW

Suitable for use on VW-Audi Diesel engines e.g.:

- 1.4 SDI / TDI
- 1.9 D / SDI / TDI / TDI (PD)
- 2.0 TDI SDI / TDI (PD)
- 2.0 TDI (Common Rail)
- 2.5 TDI
- 2.5 TDI (PD)
- 2.8 TDI (PD)
- 2.7 / 3.0 TDI (Common Rail)
- 4.2 TDI (Common Rail)

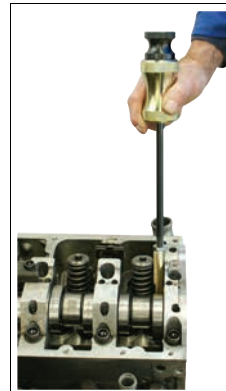
This tool is designed for the quick and professional extraction of injection nozzles from Diesel engines.

**Advantage:**

- Substantial time savings and professional working.

**Scope of Delivery: KL-0283-601 K Injector Nozzle Puller Set (small set), VW**

Part No.	Description	Qty
KL-0283-6011	Injector Nozzle Puller Adaptor, VW	1
KL-0283-6012	Injector Nozzle Puller Adaptor, M14x1.5	1
KL-0283-6013	Injector Nozzle Puller Adaptor, M10	1
KL-0283-6014	Injector Nozzle Puller Adaptor, VW	1
KL-0049-101	Slide Hammer Base Tool	1
KL-0049-1003	Hex Nut, M10	1
KL-0283-6090	Plastic Storage Case	1





## KL-0283-602

Injector Nozzle Puller  
without Slide Hammer, VW PD 2.0 16V

**Suitable for use on 2.0 TDI (PD, 4-valve) Diesel engines.**

This tool is required for the quick and professional extraction of unit-injector (PD) elements.



## KL-0283-61

Dial Gauge Stand,  
with Dial Gauge (Ø 58mm)

Required for adjusting the unit-injector (PD) elements.

**Scope of Delivery:**

**KL-0283-61 Dial Gauge Stand, with Dial Gauge (Ø 58mm)**

Part No.	Description	Qty
KL-0500-502	Dial Gauge Stand	1
KL-0128-1	Dial Gauge (Ø 58mm)	1

6



## KL-0186-14 K

(German Utility Model)

Injector Nozzle Puller Set (Universal),  
with Accessories

For Description, please refer to Chapter 6.4-01.



## KL-0186-1233

Set of Support Bolts, M6, 145mm

**Applicable to VW-Audi, Seat, Škoda 2.0 TDI (CFFB) Common Rail Diesel engines and Opel/Vauxhall 2.0 CDTi, VCDi (Z 20 DM, Z 20 DMH, Z 20 S) Common Rail Diesel engines. Installed, for example, in: VW Golf VI (5K), Eos (1F), Sharan (7N), Passat V (3C), Passat VI (36), Jetta (16), Passat CC (35), Tiguan (5N); Audi A3 (8P), Q3 (8U); Seat Alhambra (71); Škoda Superb II (3T); Opel/Vauxhall Antara, Chevrolet Captiva, Nubria estate car and Lacetti etc.**

The **KL-0186-1233** support bolt set upgrades the injector nozzle puller set **KL-0186-14 K** by making it also suitable for use on the above mentioned engines.

## KL-0049-2009

### Adaptor, M14 to M14x1.5

Intended for use with slide hammer **KL-0049-200**, to dismount the injector at e.g. **VW-Audi TDI and BMW (e.g. M47) engines.**



## KL-0049-200

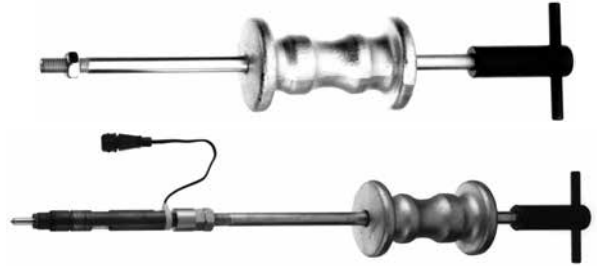
### Slide Hammer Base Tool, 2.35kg

#### Universal application.

Intended for pulling or driving out the most different components. Used in conjunction with the respectively appropriate adaptor.

#### Scope of Delivery: KL-0049-200 Slide Hammer Base Tool, 2.35kg

Part No.	Description	Qty
KL-0049-2001	Pull Rod for KL-0049-2	1
KL-0049-2002	Hammer Weight, 2.4 kg	1
KL-0049-2004	Hex Nut, M14	1
KL-0049-2006	T-Handle (metal)	1



#### Technical Data:

Hammer Weight:	2.35kg
Length:	480mm

## KL-0511-4

### Special Socket (waf 17mm)

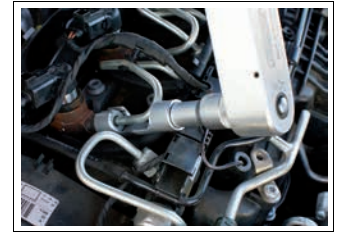
Universally suitable for the union nuts on high-pressure fuel lines in VW-Audi, Seat, Škoda Common Rail Diesel engines as found in: **VW: Polo (6R); Golf (1K), (5K, AJ); Passat (3C); Audi: A1 (8X); A3 (8P); A4 (8K), A6 (4F); A8 (4E); Seat: Ibiza (6J); Leon (1P); Škoda: Fabia II (54); Octavia II (1Z).**

Specifically cut-out socket (waf 17mm) designed to facilitate the correct loosening and tightening of the union nuts that are found on high-pressure fuel lines of Common Rail Diesel engines.



#### Technical Data:

Overall length:	78mm
Cut-out length:	41mm
Drive:	3/8"
Dimension:	17mm



## KL-0583-10 K

(German Utility Model)

### Injector Nozzle Puller Set, BMW

Suitable for use on **BMW Common Rail Diesel engines e.g.: M47TU, M57 and M57TU.**

The **KL-0583-10 K** injector nozzle puller enables the removal of very tight-fitting/seized injection nozzles to be performed in situ on the vehicle without having to remove the cylinder head. The set also includes all the necessary tools for the cleaning of injector nozzle locating bores and seal seats.

The special extraction bridge and the pull spindle allow the user to extract the injector nozzle quickly and easily. (For this purpose, the injection nozzle needs to be opened.) The use of the compressed air adaptor prevents impurities from entering the combustion chamber during the cleaning process.

#### Procedure:

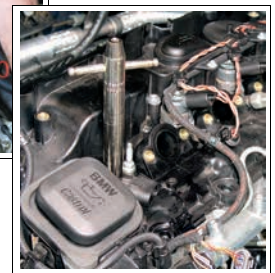
Unscrew nozzle head, screw in pull spindle, unscrew valve cover screws (4 screws), mount extraction bridge and screw on shoulder nut. Then, pull out injector nozzle by turning the shoulder nut.

#### Technical Data:

Weight:	7.2kg
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#### Scope of Delivery: KL-0583-10 K Injector Nozzle Puller Set, BMW

Part No.	Description	Qty
KL-0583-101	Puller (base tool)	1
KL-0583-102	Cleaning Tool for Injector Nozzle Seat	1
KL-0369-55 B	Compressed Air Adaptor for Glow Plug Bore M10x1	1
KL-0369-461 A	Special Socket, Size (waf) 29mm, 1/2" drive	1
KL-0369-4505 A	Special Bit Insert, Size (waf) 10mm	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0583-1090	Plastic Storage Case	1







**Technical Data:**

Connection thread for injector nozzle:	M17x1
Union nut:	M27x1
Length:	200mm

**Scope of Delivery: KL-0583-1005 A Pull Spindle M17x1 with Nut**

Part No.	Description	Qty
KL-0583-1005-1	Pull Spindle, M17x1, 200mm long	1
KL-0369-4606-2	Union Nut, M27x1	1

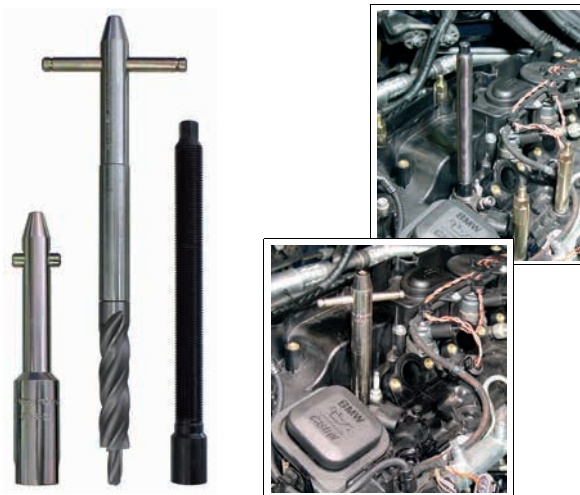
## KL-0583-1005 A

Pull Spindle, M17x1, with Nut, M27x1, 200mm long

**Suitable for injector nozzles with an M17x1 internal thread, such as BOSCH injectors. Installed in PSA (DW10), BMW, Fiat, Mercedes Diesel engines.**

The pull spindle complements the injector nozzle pullers **KL-0583-10 K** and **KL-0186-14 K** respectively (in conjunction with the vehicle-specific upgrade kits **KL-0186-1234**, **KL-0186-130**, **KL-0186-190**, **KL-0186-210**) making these suitable for use also on very tight-fitting/seized injector nozzles.

The advantage of using this tool is that - by screwing the pull spindle into the injector nozzle and additionally screwing the corresponding union nut onto the injector - the applied pulling force is evenly distributed on both threads. This allows even very tight-fitting/stuck injector nozzles to be extracted with ease.



## KL-0583-103 A

Upgrade Kit, BMW

**Designed for the BMW Turbo Diesel engine M47.**

The upgrade kit is used in conjunction with the injector nozzle puller set **KL-0583-10 K**, thus allowing for the professional and precise removal of the specified injector nozzles. The **KL-0186-501** extension is specially designed for use on very deep-seated injector nozzles.

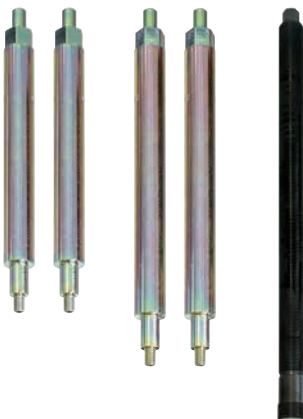
**Note:**

When using the **KL-0186-501** extension, the T-handle of the extension and the T-handle of cleaning tool **KL-0186-104** need to be interchanged.

**Scope of Delivery: KL-0583-103 A Upgrade Kit, BMW**

Part No.	Description	Qty
KL-0583-1031 A	Cleaning Tool for Injector Nozzle Seat	1
KL-0583-1032	Pull Spindle, 200mm long, for M14x1.5	1

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## KL-0583-104

Upgrade Kit,  
Land Rover Freelander 2.0 TD4

The **KL-0583-104** kit upgrades the injector nozzle puller set **KL-0583-10 K** by making it also suitable for use on Land Rover Freelander 2.0 TD4 vehicles.

**Scope of Delivery: KL-0583-104 Upgrade Kit, Landrover Freelander 2.0 TD4**

Part No.	Description	Qty
KL-0583-1041	Socket Pin, 155mm long, with Set Screw	2
KL-0583-1042	Socket Pin, 180mm long, with Set Screw	2
KL-0583-1005 H	Pull Spindle, M17x1, 315mm long	1



## KL-0511-50

Disconnect Tool for Leakage Fuel Line

**Applicable to the BMW M57 (D306D2, D306D3, D306D4, D306D5, D30T2) 6-cylinder Diesel engines. As installed in BMW 3 Series (E90, E91, E92, E93); 5 Series (E60, E61); 6 Series (E63, E64); 7 Series (E65, E66); X3 (E83); X5 (E70) and X6 (E71).**

Indispensable tool to professionally disconnect the leakage fuel line from injectors. Improper removal methods, for example, by using a pair of pliers, may cause damage to the leakage fuel line resulting in the entire line in the engine compartment to be replaced.

## KL-0057-1

### Socket for Pre-Combustion Chamber Engines

Suitable for use on Mercedes engines OM615, OM616 and OM617.

Used for unscrewing diesel pre-chamber threaded lock rings.

**Scope of Delivery: KL-0057-1 Socket for Pre-Combustion Chamber Engines**

Part No.	Description	Qty
KL-0057-0001	Screw	1
KL-0057-0002	Nut (with pins)	1



**Technical Data:**

Drive: 1/2"



## KL-0369-3

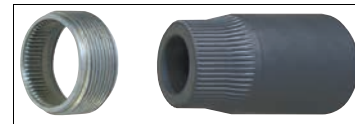
### Multi-Spline Socket for Pre-Combustion Chamber

Mercedes engines OM601, OM602, OM603 OM604, OM605 and OM606.

Used for removing Diesel pre-chamber threaded lock rings.

**Technical Data:**

Drive: 1/2"



## KL-0049-25

### Slide Hammer Puller for Pre-Combustion Chamber

Applicable to Mercedes engines OM615, OM616, OM617, OM601, OM602, OM603, OM604, OM605 and OM606.

Designed to remove stuck Diesel pre-combustion chambers.

**Scope of Delivery:**

**KL-0049-25 Slide Hammer Puller for Pre-Combustion Chamber**

Part No.	Description	Qty
KL-0049-2001	Pull Rod for KL-0049-2	1
KL-0049-2002	Hammer Weight, 2.4kg	1
KL-0049-2004	Hex Nut, M14	1
KL-0049-2006	T-Handle (metal)	1
KL-0049-2008	Adaptor, M14 to M12	1
KL-0369-4	Puller Bolt for Pre-Combustion Chamber, Mercedes	1



6

## KL-0369-11

### Cleaning Tool for Injector Nozzle Holder Seat

Applicable to Mercedes Diesel engines OM601, OM602, OM603, OM604, OM605 and OM606

Indispensable for the quick and professional cleaning of the pre-combustion chamber sealing surface of the injector nozzle holder seat.

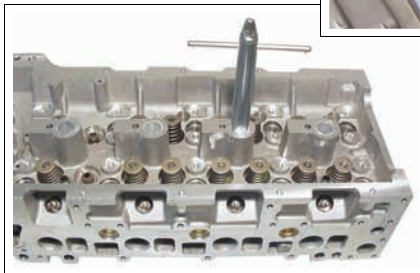
**Technical Data:**

Length:	218mm
Cleaning tool Ø:	33mm

**Scope of Delivery: KL-0369-11 Cleaning Tool for Injector Nozzle Holder Seat**

Part No.	Description	Qty
KL-0369-1101	Housing	1
KL-0369-1102	Milling Spindle (Drive 1/2")	1
KL-0369-1103	End Milling Cutter, Ø 33mm	1
KL-0369-1104	Cheese-Head Screw, M8x20mm	1
KL-0369-1105	Washer, Ø 8x21mm	1
KL-0369-1106	Circlip	1
KL-0369-1107	Protection Sleeve	1





## KL-0369-45 K

### Injector Nozzle Tool Set, Mercedes CDI

**Applicable to Mercedes CDI engines OM611, OM612, OM613, OM628, OM646\*, OM647, OM648 etc. (\*not suitable for OM646 EVO)**

The injector nozzle tool set **KL-0369-45 K** (composed of injector nozzle puller **KL-0369-41**, injector nozzle puller **KL-0369-45**, cleaning tool **KL-0369-20 A**, compressed-air adaptor **KL-0369-55 A**, screw tap **KL-0369-51**, and plastic storage case **KL-0369-4590**) enables the professional removal of injector nozzles.

The injector nozzle puller with slide hammer **KL-0369-41** is designed for the removal of injection nozzles which are only slightly seized in place without having to dismantle them. The injector nozzle puller with pull spindle **KL-0369-45** enables the removal of very tight-fitting or stuck injector nozzles to be performed directly on the vehicle. It is not necessary to remove the cylinder head from the vehicle using either of the pullers. The cleaning tool **KL-0369-20 A** allows the injection nozzle mounting hole, the nozzle seat, and the small aperture leading to the combustion chamber to be cleaned in a single operation. By screwing the compressed air adaptor **KL-0369-55 A** into the glow plug bore and injecting air into the combustion chamber, impurities are prevented from entering the latter.

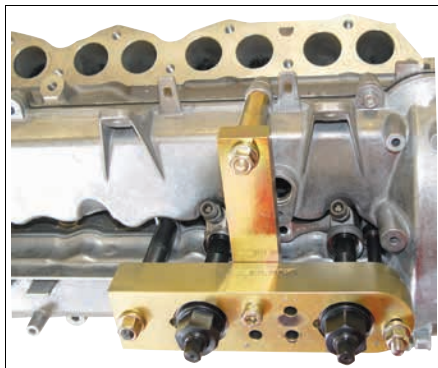
The screw tap with drill bit **KL-0369-51** is used for recutting and cleaning the tapped hole for the nozzle holder. This procedure is important before re-installing the injector nozzle.

#### Scope of Delivery:

#### KL-0369-45 K Injector Nozzle Tool Set, Mercedes CDI

Part No.	Description	Qty
KL-0369-20 A	Cleaning Tool for Injector Nozzle Seat	1
KL-0369-41	Injector Nozzle Puller with Slide Hammer	1
KL-0369-45	Injector Nozzle Puller with Pull Spindle	1
KL-0369-51	Screw Tap, M6, with Drill Bit	1
KL-0369-55 B	Compressed Air Adaptor for Glow Plug Bore M10x1	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-4590	Plastic Storage Case	1

6



## KL-0369-46 K

### Injector Nozzle Puller, Mercedes CDI

**Applicable to Mercedes CDI engines OM668, e.g. A-Class**

The **KL-0369-46 K** injector nozzle puller allows the extraction of very tight-fitting/seized injector nozzles to be performed in situ on the vehicle without having to remove the cylinder head.

On A-Class engines, the removal of injector nozzles is particularly difficult, since on these engines always two injector nozzles are held by one retaining clip. This means, that if one of the injector nozzles has to be removed, the second one needs to be pulled out at the same time.

By using the special extraction bridge and the two pull spindles, the injector nozzles can be removed quickly and easily.

#### Procedure for the removal of injector nozzles:

Unscrew top part of injector nozzles by means of the special sockets included in the set. Screw pull spindles into injector nozzles, place pre-assembled extraction bridge onto valve cover and screw on shoulder nuts. Remove injector nozzles by evenly turning the shoulder nuts.

#### Scope of Delivery:

#### KL-0369-46 K Injector Nozzle Puller, Mercedes CDI

Part No.	Description	Qty
KL-0369-460 K	Injector Nozzle Puller Upgrade Kit	1
KL-0369-461 A	Special Socket, Size (waf) 29mm, 1/2" drive	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-4505 A	Special Bit Insert, Size (waf) 10mm	1

## KL-0369-4606 A

Pull Spindle, M17x1, with Nut, M27x1, 132mm long

Suitable for injector nozzles with an M17x1 internal thread, such as BOSCH injectors. Installed in Alfa Romeo, BMW, Fiat, Mercedes, PSA (DW10) and Renault Diesel engines.

The pull spindle upgrades our KL-0369-46 K, KL-1283-11 K, KL-1283-13 K, KL-1383-11 K and KL-1683-10 K tools sets so that these can also be used with very tight-fitting/seized injector nozzles.

The advantage of using this tool is that - by screwing the pull spindle into the injector nozzle and additionally screwing the corresponding union nut onto the injector - the applied pulling force is evenly distributed on both threads. This allows even very tight-fitting/stuck injector nozzles to be extracted with ease.



**Technical Data:**

Connection thread for injector nozzle:	M17x1
Union nut:	M27x1
Length:	132mm

**Scope of Delivery:**

**KL-0369-4606 A Pull Spindle, M17x1, with Nut, M27x1**

Part No.	Description	Qty
KL-0369-4606-1	Pull Spindle, M17x1, 132mm long	1
KL-0369-4606-2	Union Nut, M27x1	1

## KL-0186-170

(Patented)

Upgrade Kit for KL-0186-14 K

Applicable to Mercedes (OM651), Chevrolet (Z20DMH, Z20D1) and Opel/Vauxhall (Z22DMH) Diesel engines; as installed, for example, in: Mercedes C-Class (W204/S204 from 2007 onwards), E-Class (W212 from 2009 onwards), E-Class Coupé/Convertible (W207/C207 from 2009 onwards), GLK (X204 from 2008 onwards) and Sprinter II (906 from 2006 onwards); Chevrolet Cruze (J300), Orlando (J309) and Opel/Vauxhall Antara (L07).

The KL-0186-170 upgrade kit enables the injector nozzle puller set KL-0186-14 K also to be used on the above mentioned engines.

**Scope of Delivery:**

**KL-0186-170 Upgrade Kit for KL-0186-14 K (to form KL-0186-17 K)**

Part No.	Description	Qty
KL-0186-1233	Set of Support Bolts, M6, 145mm long	1
KL-0186-1711	Pull Spindle, M18, 145mm long	1
KL-0369-420	Injector Nozzle Puller	1
KL-0369-511 A	Screw Tap, M7, with Drill Bit	1



## KL-0369-41

Injector Nozzle Puller with Slide Hammer

Applicable to Mercedes CDI engines OM611, OM612, OM613, OM628, OM646\*, OM647, OM648 etc. (\*not suitable for OM646 EVO)

The puller is designed for the extraction of injector nozzles which are only slightly seized in place, without having to dismantle them or having to remove the cylinder head from the vehicle.

Its special design enables the puller to be supported additionally by the steel ball in the valve cover. This will prevent the puller from tilting during the loosening process.

**Technical Data:**

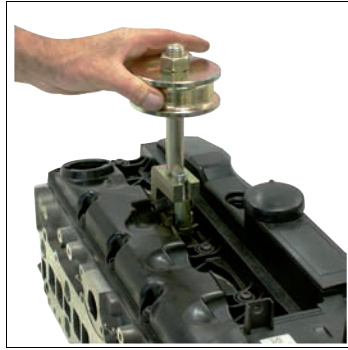
Overall length:	250mm
Fork opening:	12mm

**Scope of Delivery:**

**KL-0369-41 Injector Nozzle Puller with Slide Hammer, Mercedes**

Part No.	Description	Qty
KL-0369-410	Injector Nozzle Puller without Slide Hammer, Mercedes	1
KL-0369-4103	Pull Rod, M18	1
KL-0369-4104	Slide Hammer, 1.5kg	1
KL-0049-3004	Nut, M18	1





**Technical Data:**

Total Length:	200mm
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## KL-0369-42

(Patented)

### Injector Nozzle Puller with 1.5kg Slide Hammer, Mercedes

**Applicable to Mercedes CDI engines OM651 (Vehicles: C-Class (W/S204) 2007-, E-Class (W 212) 2009-, E-Class Coupe / Convertible (A/C 207) 2009-, GLK (X204) 2008- and Sprinter II (906) 2006-).**

The puller allows for the extraction of only slightly seized injector nozzles without having to remove the cylinder head from the vehicle. (Note: The injector nozzle cannot be dismantled)

Thanks to the special design of the puller, the injector nozzle can be fixed via the holder in the fork head. This prevents the puller from tilting during the removal process and ensures, at the same time, optimum power transmission.

**Scope of Delivery: KL-0369-42 Injector Nozzle Puller with 1.5kg Slide Hammer**

Part No.	Description	Qty
KL-0369-420	Injector Nozzle Puller	1
KL-0369-4100	Slide Hammer Puller Base Tool, 1.5kg	1

## KL-0369-45

### Injector Nozzle Puller with Pull Spindle

**Applicable to Mercedes CDI engines OM611, OM612, OM613, OM646\*, OM647 and OM648 etc. (\*except OM646 EVO)**

Allows the removal of very tight-fitting or stuck injector nozzles to be performed in situ on the vehicle, without the need for disassembling the cylinder head.

**Procedure:**

Unscrew nozzle head, screw in pull spindle, insert support rings, push support sleeve over the spindle and screw on shoulder nut. Then, remove nozzle by turning shoulder nut.

**Scope of Delivery: KL-0369-45 Injector Nozzle Puller with Pull Spindle**

Part No.	Description	Qty
KL-0369-4501	Support Sleeve	1
KL-0369-4606	Pull Spindle, M17x1, 132mm long	1
KL-1383-1112	Shoulder Nut, M16x1.5	1
KL-0369-4504	Support Ring	1
KL-0021-0006	Axial Bearing	1
KL-0040-3005	Circlip SB35	1
KL-0369-461 A	Special Socket, Size (waf) 29mm, 1/2" drive	1
KL-0014-0030	Molybdenum Disulphide Paste	1

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**Technical Data:**

Overall length:	150mm
Drive:	24mm

## KL-0369-20 A

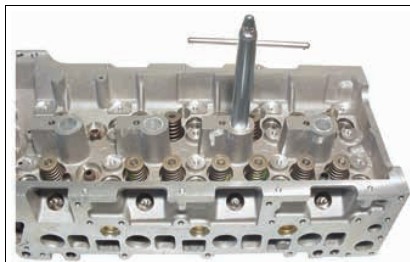
### Cleaning Tool for Injector Nozzle Seat, Common Rail Diesel Engines

**Applicable to Common Rail Diesel engines:**

- Mercedes OM611, OM612, OM613, OM639, OM640, OM642, OM646, OM647, OM648, OM651, OM668, Smart R660
- PSA 2.7 HDI / engine: DT17 and 3.0 HDI engine: DT20
- Chrysler 2.5 crd / engine: OM664
- Toyota 3.0 D-4D / engine: 1 KD-FTV
- Toyota 2.2 D-4D / engine: 2 AD-FHV, 2 AD-FTV
- Lexus 2.2 Diesel / engine: 2 AD-FHV

In a single operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seat, and the small aperture leading to the combustion chamber.

Important procedure before reinstalling an injector nozzle in order to prevent leakage between the cylinder head and the injector.



**Technical Data:**

Drive:	T-Handle
Length:	261mm
Cleaning tool Ø:	7.5/17/19.1mm

## KL-0369-54

### Compressed Air Adaptor Kit, M8x1, M9x1, M10x1 and M10x1.25

Universally suitable for use on glow plug mounting bore threads M8x1, M9x1, M10x1 and M10x1.25, as found in Alfa Romeo, BMW, Chrysler, Citroën, Fiat, Ford, Lancia, Lexus, Mercedes, Nissan, Opel/Vauxhall, Renault, Saab, Suzuki, Toyota, Volvo, etc.

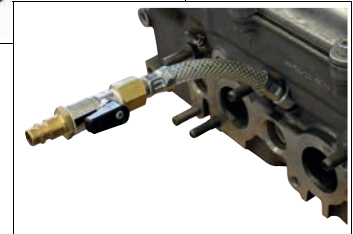
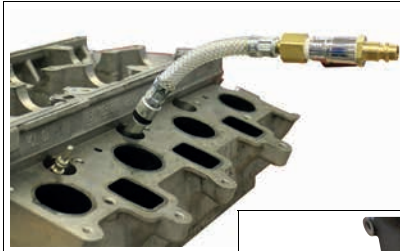
With the aid of the compressed air adaptor (in conjunction with the corresponding thread adaptor if necessary), which is to be screwed into the glow plug bore, compressed air can be injected into the combustion chamber so as to prevent impurities from entering the latter. The compressed air adaptor features a flexible hose allowing access even to glow plug bores that are hard to reach.

**Technical Data:**

Connection thread:	M8x1 / M9x1 / M10x1 / M10x1.25
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**Scope of Delivery: KL-0369-54 Compressed Air Adaptor Kit**

Part No.	Description	Qty
KL-0369-540	Compressed Air Adaptor, M10x1, with Flexible Hose	1
KL-0369-541	Thread Adaptor, M10x1 to M8x1	1
KL-0369-542	Thread Adaptor, M10x1 to M10x1.25	1
KL-0369-543	Thread Adaptor, M10x1 to M9x1	1



## KL-0369-55 B

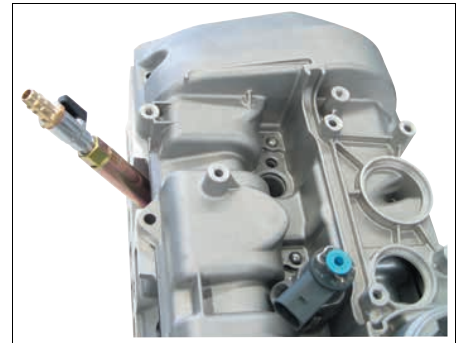
### Compressed Air Adaptor for Glow Plug Bore

Universally applicable to, e.g., BMW, Mercedes, Chrysler, Opel/Vauxhall, Nissan, Renault etc.

With the aid of the **KL-0369-55 B** compressed air adaptor, which is screwed into the glow plug bore, compressed air can be injected into the combustion chamber so as to prevent impurities from entering the latter.

**Technical Data:**

Thread:	M10x1
Length:	178mm
Pipe Ø:	15x110mm



## KL-0369-462 K

### Cleaning Tool with Compressed Air Adaptor, for Injector Nozzle Seat

Applicable to Mercedes CDI engines OM611, OM612, OM613, OM646, OM647, OM648 and OM668. (not suitable for OM646 EVO)

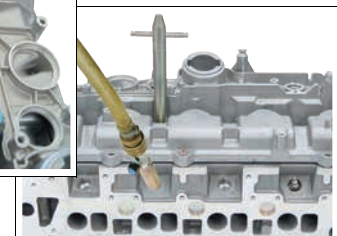
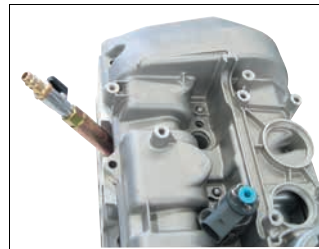
In a single machining operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seal seat and the small aperture leading to the combustion chamber.

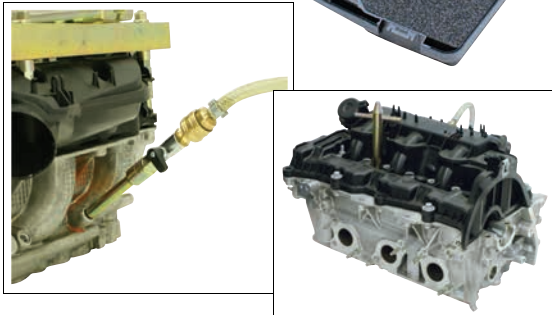
Impurities can be prevented from entering the combustion chamber by screwing the compressed air adaptor **KL-0369-55 A** into the glow plug bore hole and injecting air into the combustion chamber.

**Scope of Delivery:**

**KL-0369-462 Cleaning Tool with Compressed Air Adaptor**

Part No.	Description	Qty
KL-0369-20 A	Cleaning Tool for Injector Nozzle Seal Seat	1
KL-0369-55 B	Compressed Air Adaptor for M10x1 Glow Plug Bore	1
KL-1383-1329	Plastic Storage Case	1





## KL-1383-132 K

### Cleaning Tool Set with Compressed Air Adaptor, for Injector Nozzle Seat

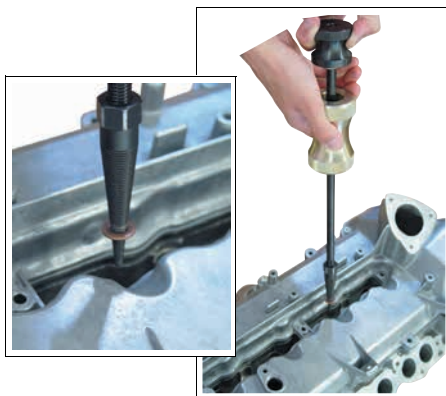
**Applicable to:** Mercedes: **OM639, OM640, OM642, OM651**; PSA: **2.7 HDI engine: DT17, 3.0 HDI engine: DT20**

The special design of the cleaning tool **KL-0369-20 A** allows the injector nozzle mounting hole, the nozzle seal seat, and the small aperture leading to the combustion chamber to be cleaned in a single operation.

Impurities can be prevented from entering the combustion chamber by screwing the compressed air adaptor **KL-1383-118** into the glow plug bore hole and injecting air into the combustion chamber.

**Scope of Delivery:** KL-1383-132 K Cleaning Tool Set with Compressed Air Adaptor, for Injector Nozzle Seat, Mercedes/PSA

Part No.	Description	Qty
KL-1383-118	Compressed Air Adaptor for M8x1 Glow Plug Bore M8x1	1
KL-0369-20 A	Cleaning Tool for Injector Nozzle Seat	1
KL-1383-1329	Plastic Storage Case	1



## KL-0369-59

### Puller for Sealing Ring

**Universally suitable for sealing rings with an internal diameter of 4-16mm, e.g. injector nozzle sealing rings as found in Diesel engines on BMW, Mercedes, PSA etc.**

The **KL-0369-59** puller is designed for the professional removal of sealing rings; for example of those located between the injector nozzle and cylinder head.

To remove the sealing ring, screw the tapered tip of the tool into the ring, then pull it out with the aid of the slide hammer.

**Technical Data:**

Slide hammer weight:	0.9kg
Length:	385mm
For sealing ring internal Ø:	4-16mm

6



## KL-0369-51 A

### Screw Tap, M6, with Drill Bit, Mercedes

**Applicable to Mercedes CDI engines OM611, OM612, OM613, OM646\*, OM647 and OM648 etc. (\*except OM646 EVO)**

For re-tapping and cleaning the threaded bore hole in which the injection nozzle holder is fixed. These are indispensable work steps before installing/re-installing an injector.

**Technical Data:**

Length:	100mm
Thread:	M6



## KL-0369-511 A

### Screw Tap, M7, with Drill Bit with Spiral Grooves, Mercedes

**Applicable to Mercedes OM651 CDI engines.**

For re-tapping and cleaning the threaded bore hole in which the injection nozzle holder is fixed. These are indispensable work steps before installing/re-installing an injector.

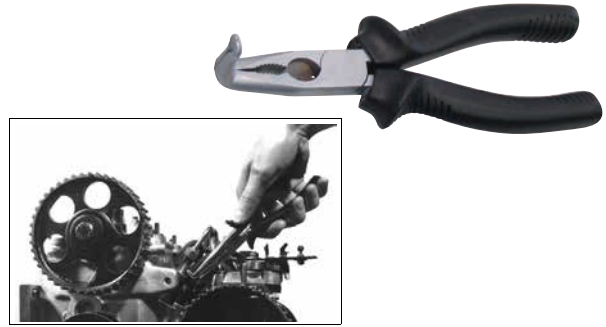
**Technical Data:**

Length:	100mm
Thread:	M7

## KL-0192-23 Fuel Return Line Pliers

Ideal for use on Mercedes OM601, OM602, OM603 and VW Audi vehicles where the injection nozzles are located very deep in the cylinder head.

For removing fuel return lines from injector nozzles on Diesel engines.



## KL-0489-10 Injector Nozzle Puller with Slide Hammer, Opel/Vauxhall

Applicable to Opel/Vauxhall Diesel engines, e.g. 2.2.

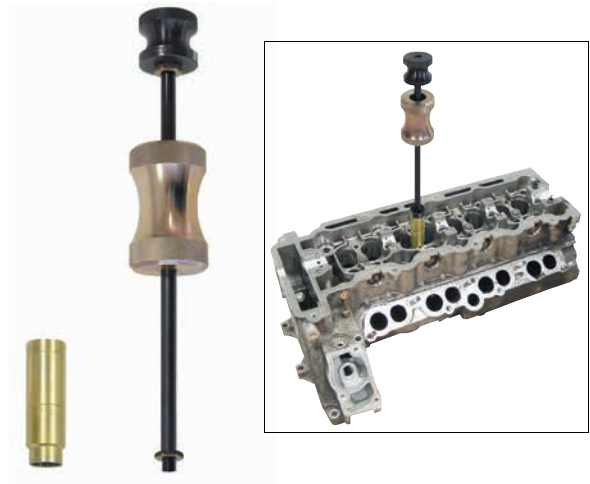
The injector nozzle puller KL-0489-10 enables the removal of tightly fitting injectors within just a few minutes.

**Technical Data:**

Slide Hammer Weight:	0.9kg
Connecting thread (injector nozzle):	M17x0.75
Length:	185mm

**Scope of Delivery: KL-0489-10 Injector Nozzle Puller with Slide Hammer**

Part No.	Description	Qty
KL-0049-100	Slide Hammer Puller Base Tool	1
KL-0489-1001	Adaptor, M10 to M17x0.75	1



## KL-1683-103 Cleaning Tool for Injector Nozzle Seat

Applicable to Common Rail Diesel engines on Opel/Vauxhall, Fiat, Lancia, Suzuki 1.3 JTD, 1.3 CDTi, 1.3 JTD, 1.3 DDis / engine: Z13DT, 188A9.000.

In a single machining operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seal seat and the small aperture leading to the combustion chamber.

Indispensable procedure before re-installing/installing an injection nozzle to avoid leakage between cylinder head and injector nozzle.



**Technical Data:**

Drive:	T-handle
Length:	261mm
Cleaning tool Ø:	7.5/17/17.6mm

## KL-0186-51 (German Utility Model) Cleaning Tool Set for Injector Nozzle Seat

Suitable for use on the Fiat 2.3 JTD, 2.8 JTD and 3.0 JTD Diesel engines with conical injector nozzle seat.

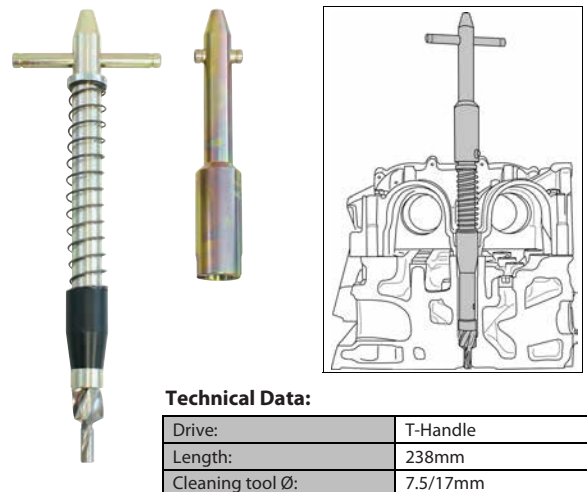
The cleaning tool enables the quick and professional cleaning of conical injector nozzle seats.

Indispensable working step before installing/re-installing an injector nozzle in order to avoid leakage between cylinder head and injector nozzle.

The spring-loaded centring cone sleeve ensures accurate guidance of the cleaning tool in the injector nozzle bore, thus enabling the seal seat to be cleaned properly and without any trouble.

**Scope of Delivery: KL-0186-51 Cleaning Tool Set for Injector Nozzle Seat**

Part No.	Description	Qty
KL-0186-511	Cleaning Tool for Injector Nozzle Seat	1
KL-0186-501	Extension	1



**Technical Data:**

Drive:	T-Handle
Length:	238mm
Cleaning tool Ø:	7.5/17mm





## KL-0186-14 K (German Utility Model)

### Injector Nozzle Puller Set (Universal), with Accessories

For Description, please refer to Chapter 6.4-01.



## KL-0186-130

### Upgrade Kit for KL-0186-14 K (1.9, 2.3, 2.4, 3.0 JTD)

Applicable to Fiat Ducato, Citroën Relay/Jumper III, Peugeot Boxer III and Iveco 2.3; 2.4 and 3.0 JTD / HDI Common Rail Diesel engines (Engine Codes: F1CE3481E, F1CE3481M, F1CE3481N, F30DTE [F1CE3481D, F1CE3481DM, F1CE3481E, F1CE3481N] also Euro 5), as well as Alfa Romeo 1.9 JTD (Engine code: 937A5.000).

The KL-0186-130 upgrade kit enables the injector nozzle puller set KL-0186-14 K also to be used on the above mentioned engines.

Scope of Delivery: KL-0186-130 Upgrade Kit (1.9, 2.3, 2.4, 3.0 JTD)

Part No.	Description	Qty
KL-0186-1232	Support Bolt Set, M8 (4-piece)	1
KL-0583-1032	Pull Spindle, M14x1.5, 200mm long	1
KL-0186-1261	Set of Spacer Nuts, 10mm (4-piece)	1



## KL-0186-132

### Upgrade Kit for KL-0186-14 K in conjunction with KL-0186-130

Applicable to the Fiat Ducato 3.0 JTD (Euro 5), Citroën Relay/Jumper III and Peugeot Boxer III 3.0 HDI (Euro 5) Common Rail Diesel engines. (Engine codes: F1CE3481E, F1CE3481M, F1CE3481N, F30DTE [F1CE 3481D, F1CE 3481DM, F1CE 3481E, F1CE 3481N])

The KL-0186-132 upgrade kit is used in conjunction with the injector nozzle puller set KL-0186-14 K and upgrade kit KL-0186-130 to allow the removal of very tight-fitting/seized injector nozzles to be performed in situ on the vehicle without the need for dismantling the cylinder head.

The injector can be extracted in one piece quickly and easily using the special puller claw and the KL-0583-1032 pull spindle (supplied with KL-0186-130). The injector needs to be opened for this purpose.

**Procedure:** Unscrew injector top part, dismantle nozzle, screw in pull spindle, mount special puller claw, unscrew valve cover screws (4 screws) and replace with special support bolts, mount extraction bridge and screw on shoulder nut. Extract nozzle by turning the shoulder nut.

Scope of Delivery: KL-0186-132 Upgrade Kit for KL-0186-13 KA

Part No.	Description	Qty
KL-0186-1232 L	Set of Support Bolts M8, 180mm	1
KL-0186-1321	Special Injector Puller Claw	1
KL-0186-1322	Knurled Nut	1
KL-0186-1323	Hex Nut	1



## KL-0186-1233

### Set of Support Bolts, M6, 145mm

Applicable to VW-Audi, Seat, Škoda 2.0 TDI (CFFB) Common Rail Diesel engines and Opel/Vauxhall 2.0 CDTi, VCDi (Z 20 DM, Z 20 DMH, Z 20 S) Common Rail Diesel engines. Installed, for example, in: VW Golf VI (5K), Eos (1F), Sharan (7N), Passat V (3C), Passat VI (36), Jetta (16), Passat CC (35), Tiguan (5N); Audi A3 (8P), Q3 (8U); Seat Alhambra (71); Škoda Superb II (3T); Opel/Vauxhall Antara, Chevrolet Captiva, Nubria estate car and Lacetti etc.

The KL-0186-1233 support bolt set upgrades the injector nozzle puller set KL-0186-14 K by making it also suitable for use on the above mentioned engines.

## KL-1683-10 K

### Injector Nozzle Puller Set, Fiat/Opel/Vauxhall/Suzuki

**Suitable for use on Fiat, Opel/Vauxhall, Suzuki 1.3 Common Rail Diesel engines.**  
(engine code: A13DTE, Z13 DT, etc.)

This tool set enables the professional removal of very tight-fitting/seized injector nozzles without the need for removing the cylinder head from the vehicle.

The removal of injector nozzles from this type of engines is particularly difficult due to the fact that always two injector nozzles are held by one retaining clip. This means, that when removing one of the injector nozzles, the second one needs to be pulled out at the same time.

The injector nozzles can quickly and easily be removed using the special extraction bridge and the two pull spindles.

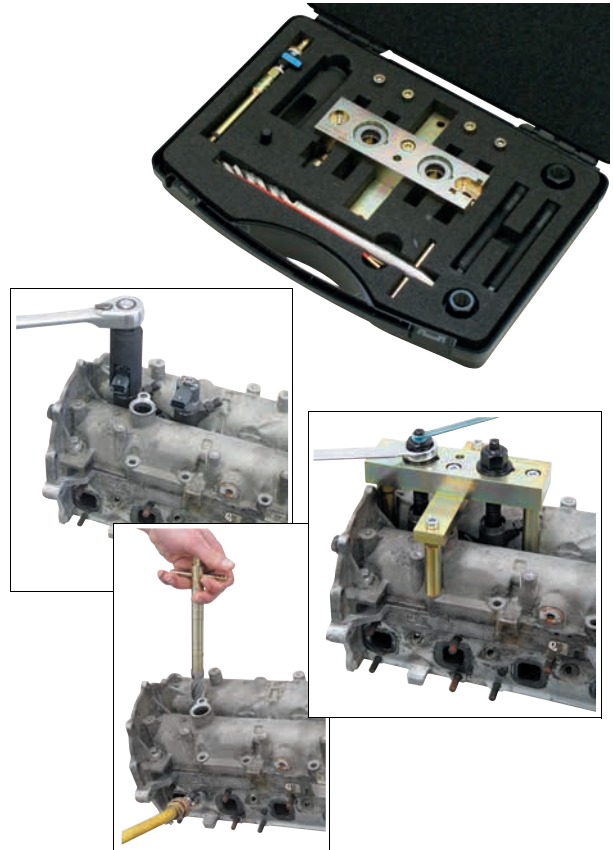
#### Procedure for the removal of the injector nozzles:

Unscrew injection nozzle heads with the special socket included in the set. Screw pull spindles into the injector nozzles, place pre-assembled extraction bridge onto the valve cover and screw on shoulder nuts. Pull out nozzles by evenly turning the shoulder nuts. By injecting compressed air into the combustion chamber impurities are prevented from entering the latter.

#### Scope of Delivery:

##### KL-1683-10 K Injector Nozzle Puller Set, Fiat/Opel/Vauxhall/Suzuki

Part No.	Description	Qty
KL-1683-105	Extraction Bridge with Spindle	1
KL-0369-4505 A	Special Bit Insert, Size (waf)10mm	1
KL-0369-461 A	Special Socket, Size (waf) 29mm, 1/2" drive	1
KL-1383-118	Compressed Air Adaptor for Glow Plug Bore M8x1	1
KL-1683-103	Cleaning Tool for Injector Nozzle Seat	1
KL-1683-1090	Plastic Storage Case	1



## KL-0186-110

(Patented)

### Injector Nozzle Puller without Slide Hammer, for M14x1.5, VW / Fiat / IVECO

**Applicable to Fiat 2.8 JTD Diesel engines; e.g. Ducato, IVECO Daily and VW 2.0 TDI Common Rail engines (first and second generation) e.g. Golf 6, Tiguan, Touran (engine code CFFB) etc.**

This tool enables the professional removal of injection nozzles without having to open or dismantle them. The slide hammer **KL-0369-4100** (1.5kg) or **KL-0049-300** (4.8kg) is needed to operate the tool.

An indispensable tool when changing a timing chain or removing the valve cover/ replacing the valve cover seal.

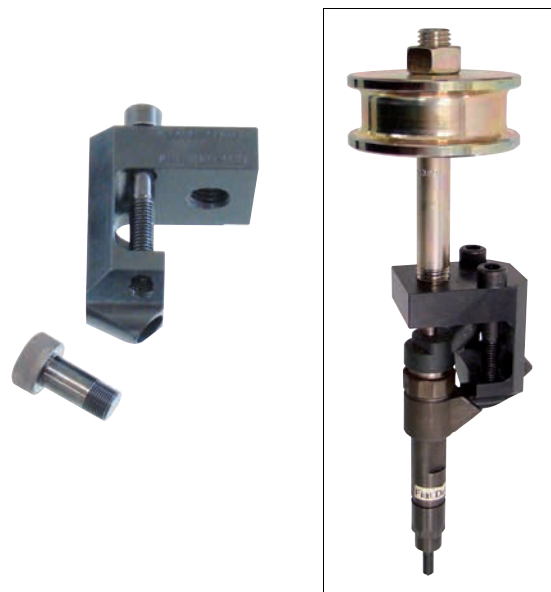
The injector nozzle puller is fixed to the high-pressure fuel supply line bore (M14x1.5) on the injector with a special screw. Thanks to its particular design, the puller allows for optimum power transmission without the risk of damaging the valve cover or the injector nozzle.

The stabilising screws enable the tool to be individually adjusted to the injector nozzle top part whilst, at the same time, ensuring the greatest possible stability of the injector nozzle puller.

#### Scope of Delivery:

##### KL-0186-110 Injector Nozzle Puller without Slide Hammer, for M14x1.5

Part No.	Description	Qty
KL-0186-1101	Injector Nozzle Puller Base Body for M14x1.5	1
KL-0186-1102	Special Screw, M14x1.5	1





## KL-0186-14 K (German Utility Model) Injector Nozzle Puller Set (Universal), with Accessories

Universally applicable to Diesel engines with injector nozzle connection thread M14x1.5 (external thread) or M17x1 (internal thread); for example:

- Mercedes: OM611, OM612, OM613, OM628\*\*, OM629\*\*, OM639, OM640, OM642\*\*, OM646, OM646 EVO, OM647, OM648
- Peugeot, Citroën, Fiat, Lancia, Suzuki: DV6\* [16V])
- Ford: 1.6 TDCi (G8DA, G8DB, HHD, HJA, HHJB)
- VW-Audi: 2.5, 2.7 and 3.0 V6 Tdi
- Volvo: 1.6 D (D4164T), 2.2 D
- Mazda: Y6 (DV6\* [16V])

\*Note: Not suitable for Euro 5 [8V] engines.

\*\*Note: V-engines might require the removal of the engine due to space constraints.

The injector nozzle puller **KL-0186-14 K** enables the removal of very tight-fitting/seized injector nozzles to be performed in situ on the vehicle without the need for dismantling the cylinder head.

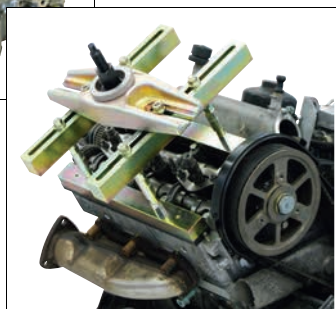
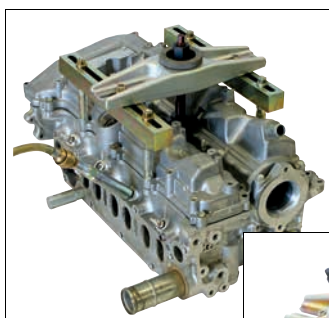
The special extraction bridge and pull spindle allow the user to extract the injector nozzle quickly and easily.

The extraction bridge is supported either by the support bolts that are screwed into the locating bores for the valve cover screws (M6) or by the support bars that are positioned on an even surface on the cylinder head. The spacer nuts allow the supporting surfaces to be levelled out, as well as the support bolts in bore holes with insufficient depth to be adjusted correctly.

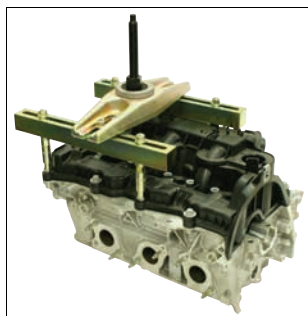
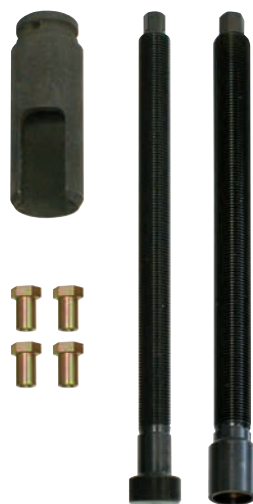
**Note:**

Thanks to the various upgrade kits, which are available separately as accessories, the injector nozzle puller is also suitable for use on many other Common Rail Diesel engines such as PSA 2.7 and 3.0 Hdi (DT17, DT20), Fiat Ducato and Iveco 2.3, 2.4 and 3.0 JTD, Mercedes CDI (OM651), Renault, Nissan, Opel/Vauxhall 2.2, 2.5 and 3.0 dci (G9T, G9U and ZD3), as well as Toyota 2.2 (2AD-FHV, 2AD-FTV).

For Scope of Delivery, see Page 6.4-01



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## KL-0186-150 A Upgrade Kit (PSA HDI) for KL-0186-14 K

Applicable to PSA 2.7 (DT17) and 3.0 (DT20) Hdi Diesel engines.

The **KL-0186-150 A** upgrade kit enables the injector nozzle puller set **KL-0186-14 K** also to be used on the above mentioned engines.

**Note:**

Be sure to read and observe the injector nozzle manufacturer's directions and specifications before re-installing an injector nozzle that had been opened. If necessary, have the injector nozzle tested and checked by an authorized workshop.

**Scope of Delivery:**

**KL-0186-150 A Upgrade Kit (PSA HDI) for KL-0186-14 K**

Part No.	Description	Qty
KL-0186-1254	Set of Spacer Nuts, 20mm	1
KL-1383-1113 H	Pull Spindle, M14x1.25, 240mm long	1
KL-1383-1021 H	Pull Spindle, M25x1, 240mm long	1
KL-1383-1022	Special Socket, Size (waf) 25mm, 1/2" drive	1

**Accessories (on demand):**

1993 U-20 CODE:1436686 - Reversible ratchet



1 B - Combination Spanner UD-Profile



# KL-1383-14 K

## Injector Nozzle Puller Set, PSA 1.4, 1.6, 2.0 8V HDI

**Applicable to Peugeot, Citroën and Fiat 1.4 8V (DV4 - Euro 4 and Euro 5), 1.6 8V (DV6 - Euro 5) and 2.0 8V HDI (DW10) Diesel engines. As installed in Citroën C1, C2, C3, C4, C5, C8, DS3, DS4, Berlingo, Evasion, Jumper, Jumper II, Jumpy, Xantia, Xsara; Peugeot 107, 206, 207, 306, 307, 308, 406, 508, 607, 806, 807, 1007, 3008, 5008, Boxer, Boxer II, Expert, Partner and Fiat Ducato, Scudo, Ulysse etc.**

An indispensable tool set for the professional removal of very tight-fitting/seized injector nozzles without the need for removing the cylinder head from the vehicle. The **KL-1383-14 K** injector nozzle puller set allows for the accurate extraction of very tight-fitting injector nozzles as well as for the professional cleaning of the injector nozzle bore and seal seat. The removal of the cylinder head is not necessary. The special pull spindle with union nut is specifically designed for use on the above mentioned vehicles to ensure safe and accurate support of the puller tools, even if injectors are very tight-fitting or seized in place. The use of the special pull spindle with additional union nut will facilitate the extraction of even the most stubborn injectors.  
- The injector nozzle needs to be opened for this.

### Procedure for Injector Nozzle Removal:

Unscrew injector nozzle top part by means of the special socket included in the set. Screw pull spindle into injector nozzle, and, if using the pull spindle with union nut, additionally screw union nut onto the injector nozzle. Place pre-assembled base tool onto cylinder head and screw on shoulder nut. Extract injector nozzle by evenly turning shoulder nut. Make sure that no impurities can enter the combustion chamber by injecting compressed air into the latter.

### Scope of Delivery:

#### KL-1383-14 K Injector Nozzle Puller Set, PSA 1.4, 1.6, 2.0 8V HDI

Part No.	Description	Qty
<b>KL-1383-140 K</b>	<b>Injector Nozzle Puller Set, PSA 1.4, 1.6, 2.0 8V HDI</b>	<b>1</b>
KL-0186-50	Cleaning Tool for Injector Nozzle Seat	1
KL-1383-118	Compressed Air Adaptor for Glow Plug Bore M8x1	1
KL-0369-55 B	Compressed Air Adaptor for Glow Plug Bore M10x1	1

### Scope of Delivery:

#### KL-1383-140 K Injector Nozzle Puller Set, PSA 1.4, 1.6, 2.0 8V HDI

Part No.	Description	Qty
<b>KL-1383-1400</b>	<b>Base Tool</b>	<b>1</b>
KL-1383-1021	Pull Spindle, M25x1, 132mm long	1
KL-1383-1221	Pull Spindle, M27x1, 127mm long	1
KL-0369-4606 A	Pull Spindle, M17x1, 132mm long, with Union Nut	1
KL-1383-1112	Shoulder Nut, M16x1.5	1
KL-0369-4505 A	Special Bit Insert, (waf) 10mm	1
KL-0369-461 A	Special Socket, (waf) 29mm, 1/2" drive	1
KL-1383-1022	Special Socket, (waf) 25mm, 1/2" drive	1
KL-1383-1222 A	Special Socket, (waf) 27mm	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0014-0030	Molybdenum Disulphide Paste	1
KL-1383-1490	Plastic Storage Case with Insert	1

### Scope of Delivery:

#### KL-1383-1400 Base Tool

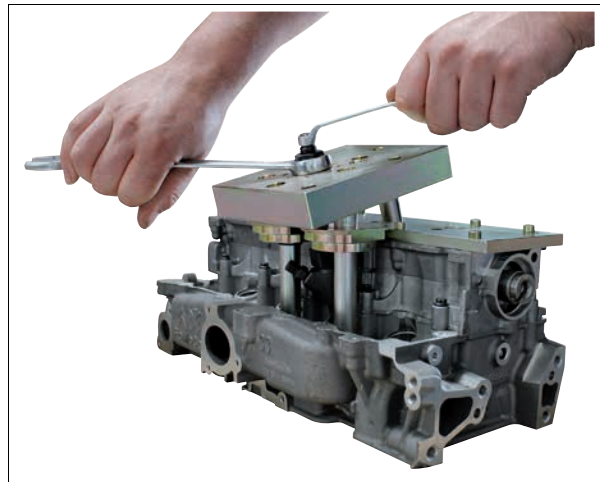
Part No.	Description	Qty
KL-1383-1401	Plate	1
KL-1383-1402	Base Plate (assembled)	1
KL-1383-1403	Socket Pin, Ø 20x120mm	2
KL-1383-1404	Support Bolt, DV4/DV6	1
KL-1383-1405	Support Bolt, DW10	2
KL-1383-1406	Support, DW10	1
KL-0055-0012	Cheese Head Screw, M6x25mm	8
KL-1283-1016	Cheese Head Screw, M8x30mm	2
KL-5501-3019	Cheese Head Screw, M10x25mm	1
KL-1383-1407	Support Disc	2



(Engine codes: DV4C, DV4TD, DV4TED, DV6C, DV6CTED, DV6DTEd, DW10ATED, DW10TD, DW10UTD, 8HR, 8HT, 8HX, 8HZ, 9HF, 9HL, 9HP, 9HR, RHS, RHV, RHY, RHZ)

### Note:

Be sure to read and observe the injector nozzle manufacturer's instructions and specifications before starting to re-install an injector nozzle that had been opened. If necessary, have the injector nozzle tested and checked by an authorized workshop.





## KL-1383-30

### Seal Ring Installation Tool DV6 (16V)

Applicable to PSA 1.6 16V (DV6) Diesel engines. For example, fitted to Peugeot: 1007, 2008, 206 CC, 207, 207 CC, 208, 3008, 301, 307, 308, 308 CC, 4008, 407, 5008, 508, Expert III, Partner I, Partner II, Partner III; Citroën: Berlingo, Berlingo II, Berlingo III, C2, C3 I, C3 II, C3 III, C3 Picasso, C4, C4 II, C4 Picasso, C4 Picasso II, C4 Grand Picasso, C4 Grand Picasso II, C4 Sedan, C4 Aircross, C5 II, C5 III, C-Elysee, Dispatch, Jumpy III, DS3, DS3 Convertible, DS4, DS5, Xsara Picasso; Fiat: Scudo; Volvo: C30, S40, S80, V50, V70; Ford: C-Max, Fiesta, Focus, Focus C-Max, Fusion; Mazda: 2, 3, 5 and Suzuki: SX4, SX4 Classic. (Engine codes: DV6, G8DA, G8DB, HHDA, HJA, HHJB, D4164T, Y6, 9HX.)

This tool allows the user to quickly and professionally press the shaft seal into the injector location hole. The guide cone included in the kit ensures that the shaft seal is press-fitted in a straight line.

#### Technical Data:

External Ø (sleeve):	28.3mm
Length (sleeve):	150mm
Length (guide cone):	54mm

#### Scope of Delivery: KL-1383-30 Seal Ring Installation Tool DV6 (16V)

Part No.	Description	Qty
KL-1383-3001	Guide Cone	1
KL-1383-3002	Sleeve	1

## KL-0186-230

### Upgrade Kit to KL-0186-14 K

Applicable to Ford, Fiat, Citroën and Peugeot 2.2 Diesel engines. Installed, for example, in: Ford Transit (from 2006 onwards), Tourneo; Fiat Ducato (from 2006 to 2012), Citroën Relay/Jumper III and Peugeot Boxer III. (Engine codes: 4HM, 4HU, 4HV, CYFA, CYFB, CYFC, DRFA, DRFB, DRFC, P22DTE, P8FB, PGFA, PGFB, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, USRA)

The KL-0186-230 upgrade kit enables the injector nozzle puller set KL-0186-14 K also to be used on the above mentioned engines.

#### Scope of Delivery: KL-0186-230 Upgrade Kit for KL-0186-14 K

Part No.	Description	Qty
KL-0186-1233	Set of Support Bolts, M6, 145mm	1
KL-1383-1022	Special Socket, Size (waf) 25mm, 1/2" drive	1
KL-1383-1021	Pull Spindle, M25x1, 132mm long	1
KL-0186-2201	Special Insert	1
KL-0186-1611	Pull Spindle, M20x1, 145mm long	1



6

## KL-1383-141 K

### Injector Nozzle Puller Set, PSA 2.0 8V HDI

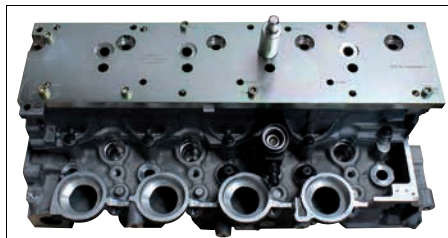
Applicable to Peugeot, Citroën and Fiat 2.0 8V HDI (DW10) Diesel engines; as installed in Citroën C4, C5, C8 Berlingo, Evasion, Jumper, Jumper II, Jumpy, Xantia, Xsara; Peugeot 206, 306, 307, 406, 607, 806, Boxer II, Expert, Partner and Fiat Ducato, Scudo, Ulysse etc. (Engine codes: DW10ATED, DW10TD, DW10UTD, RHS, RHZ, RHY, RHV)

An indispensable tool set for the professional removal of very tight-fitting/seized injector nozzles without the need for removing the cylinder head from the vehicle. The KL-1383-141 K injector nozzle puller set allows for the accurate extraction of very tight-fitting/stuck injector nozzles. The removal of the cylinder head is not necessary. The special pull spindle with union nut is specifically designed for use on the above mentioned vehicles to ensure safe and accurate support of the puller tools, even if injectors are very tight-fitting or seized in place. The use of the special pull spindle with additional union nut will facilitate the extraction of even the most stubborn injectors. The injector nozzle needs to be opened for this.

**Note:** Be sure to read and observe the injector nozzle manufacturer's directions and specifications before re-installing an injector nozzle that had been opened. If necessary, have the injector nozzle tested and checked by an authorized workshop.

#### Scope of Delivery: KL-1383-141 K Injector Nozzle Puller Set, PSA 2.0 8V HDI

Part No.	Description	Qty
KL-1383-1400	Base Tool	1
KL-1383-1221	Pull Spindle, M27x1, 127mm long	1
KL-0369-4606 A	Pull Spindle, M17x1, 132mm long, with union nut	1
KL-1383-1112	Shoulder Nut, M16x1.5	1
KL-0369-4505 A	Special Bit Insert, (waf) 10mm	1
KL-0369-461 A	Special Socket, (waf) 29mm, 1/2" drive	1
KL-1383-1222 A	Special Socket, (waf) 27mm	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0014-0030	Molybdenum Disulphide Paste	1
KL-1383-1490	Plastic Storage Case with Insert	1



#### Procedure for Injector Nozzle Removal:

Unscrew injector nozzle head by means of the special socket included in the set. Screw pull spindle into injector nozzle, and, if using the pull spindle with union nut, additionally screw union nut onto the injector nozzle. Place pre-assembled base tool onto cylinder head and screw on shoulder nut. Extract injector nozzle by evenly rotating shoulder nut.

## KL-1383-142 K

### Injector Nozzle Puller Set, PSA 1.4 8V HDI

**Applicable to Peugeot and Citroën 1.4 8V (DV4 - Euro 4 and Euro 5) Diesel engines; as installed in Citroën C1, C2, C3, DS3, Xsara, and Peugeot 107, 206, 207, 307 1007 etc. (Engine codes: DV4C, DV4TD, DV4TED, 8HR, 8HT, 8HX, 8HZ)**

An indispensable tool set for the professional removal of very tight-fitting/seized injector nozzles without the need for removing the cylinder head from the vehicle. The **KL-1383-142 K** injector nozzle puller set allows for the accurate extraction of very tight-fitting or stuck injector nozzles. The removal of the cylinder head is not necessary. The special pull spindle with union nut is specifically designed for use on the above mentioned vehicles to ensure safe and accurate support of the puller tools, even if injectors are very tight-fitting or seized in place. The use of the special pull spindle with additional union nut will facilitate the extraction of even the most stubborn injectors. The injector nozzle needs to be opened for this.

#### Procedure for Injector Nozzle Removal:

Unscrew injector nozzle head by means of the special socket included in the set. Screw pull spindle into injector nozzle, and, if using the pull spindle with union nut, additionally screw union nut onto the injector nozzle. Place pre-assembled base tool onto cylinder head and screw on shoulder nut. Extract injector nozzle by evenly rotating shoulder nut.

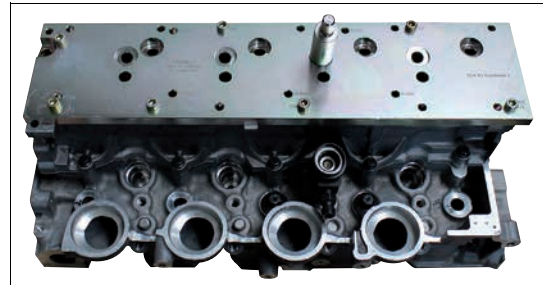
#### Scope of Delivery: KL-1383-142 K Injector Nozzle Puller Set, PSA 1.4 8V HDI

Part No.	Description	Qty
KL-1383-1400	Base Tool	1
KL-0369-4606 A	Pull Spindle, M17x1, 132mm long, with Union Nut	1
KL-1383-1112	Shoulder Nut, M16x1.5	1
KL-0369-4505 A	Special Bit Insert, (waf) 10mm	1
KL-0369-461 A	Special Socket, (waf) 29mm, 1/2" Drive	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0014-0030	Molybdenum Disulphide Paste	1
KL-1383-1490	Plastic Storage Case with Insert	1



#### Note:

Be sure to read and observe the injector nozzle manufacturer's directions and specifications before re-installing an injector nozzle that had been opened. If necessary, have the injector nozzle tested and checked by an authorized workshop.



## KL-1383-143 K

### Injector Nozzle Puller Set, PSA 1.6 8V HDI

**Applicable to Peugeot and Citroën 1.6 8V (DV6 - Euro 5) Diesel engines; as installed in Citroën C3, C4, C5, DS3, DS4, Berlingo, and Peugeot 207, 308, 508, 3008, 5008, Partner etc. (Engine codes: DV6C, DV6CTED, DV6DTED, 9HF, 9HL, 9HP, 9HR)**

An indispensable tool set for the professional removal of very tight-fitting/seized injector nozzles without the need for removing the cylinder head from the vehicle. The **KL-1383-143 K** injector nozzle puller set allows for the accurate extraction of very tight-fitting or stuck injector nozzles. The removal of the cylinder head is not necessary. The special pull spindle with union nut is specifically designed for use on the above mentioned vehicles to ensure safe and accurate support of the puller tools, even if injectors are very tight-fitting or seized in place. The use of the special pull spindle with additional union nut will facilitate the extraction of even the most stubborn injectors. The injector nozzle needs to be opened for this.

#### Procedure for Injector Nozzle Removal:

Unscrew injector nozzle head by means of the special socket included in the set. Screw pull spindle into injector nozzle, and, if using the pull spindle with union nut, additionally screw union nut onto the injector nozzle. Place pre-assembled base tool onto cylinder head and screw on shoulder nut. Extract injector nozzle by evenly rotating shoulder nut.

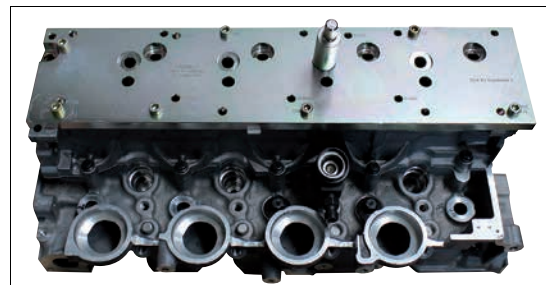
#### Scope of Delivery: KL-1383-143 K Injector Nozzle Puller Set, PSA 1.6 8V HDI

Part No.	Description	Qty
KL-1383-1400	Base Tool	1
KL-1383-1021	Pull Spindle, M25x1, 132mm long	1
KL-0369-4606 A	Pull Spindle, M17x1, 132mm long, with Union Nut	1
KL-1383-1112	Shoulder Nut, M16x1.5	1
KL-0369-4505 A	Special Bit Insert, (waf) 10mm	1
KL-0369-461 A	Special Socket, (waf) 29mm, 1/2" Drive	1
KL-1383-1022	Special Socket, (waf) 25mm, 1/2" Drive	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0014-0030	Molybdenum Disulphide Paste	1
KL-1383-1490	Plastic Storage Case with Insert	1



#### Note:

Be sure to read and observe the injector nozzle manufacturer's directions and specifications before re-installing an injector nozzle that had been opened. If necessary, have the injector nozzle tested and checked by an authorized workshop.





## KL-1383-11 KA

### Injector Nozzle Puller Set, PSA 2.0 HDi + 2.2 HDi

**Applicable to PSA 2.0 (110bhp, 135bhp) [DW10] and 2.2 [DW12] HDI TwinCam engines as found in Citroën, Ford, Fiat, Jaguar, Lancia, Peugeot, Suzuki, Volvo etc.**

This really useful tool set allows for the professional removal of very tight-fitting/stuck injector nozzles, without the need for dismantling the cylinder head.

The **KL-1383-11 KA** injector nozzle puller set is designed for the accurate extraction of very tight-fitting injector nozzles, as well as for the cleaning of the injector nozzle bore and seal seat.

The removal of the cylinder head is not necessary.

The extraction bridge is specifically designed for the above mentioned vehicles in order to ensure safe and accurate support of the puller tools, even if injectors are stuck or seized in place.

The special pull spindle with additional union nut (to be used on DW10 engines) will facilitate the extraction of even the most stubborn injectors.

The injector nozzle needs to be opened for this. (engines: DW10)

**Note:** Be sure to read and observe the injector nozzle manufacturer's directions and specifications before attempting to re-install an injector nozzle that had been opened. If necessary, have the injector nozzle tested and checked by an authorized workshop.

#### Procedure for Injector Nozzle Removal:

Unscrew injector nozzle head by means of the special socket included in the set. (DW10): Screw pull spindle into injector, and, if using the pull spindle with union nut, additionally screw union nut onto injector nozzle. Place pre-assembled base tool onto cylinder head and screw on shoulder nut. Extract injector nozzle by evenly turning shoulder nut. Inject compressed air into the combustion chamber in order to prevent impurities from entering the latter.

#### Scope of Delivery:

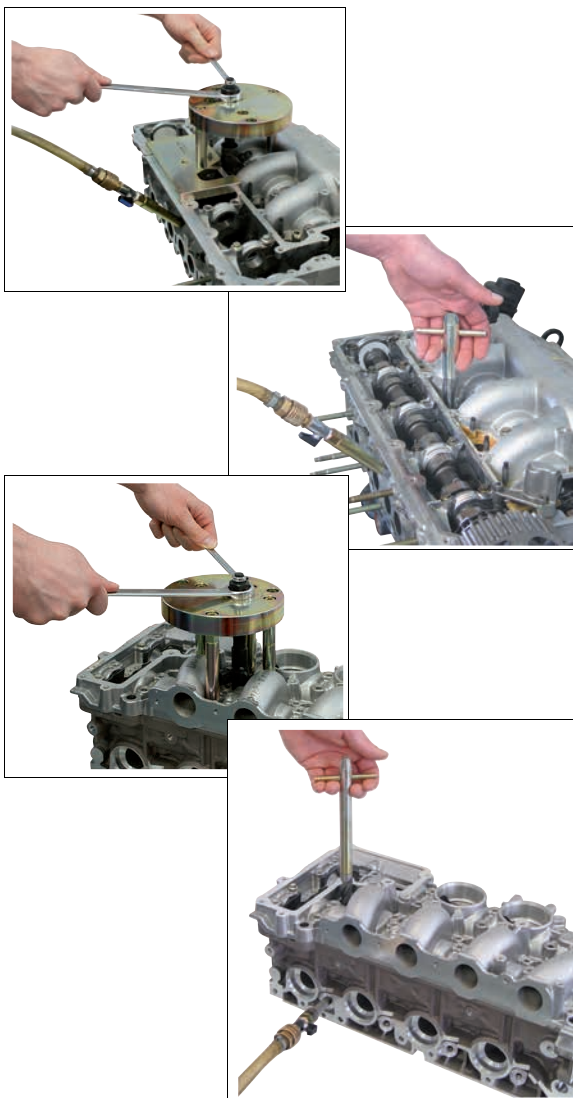
##### KL-1383-11 KA Injector Nozzle Puller Set, PSA 2.0 HDi + 2.2 HDi

Part No.	Description	Qty
KL-1383-118	Compressed Air Adaptor for Glow Plug Bore M8x1	1
KL-1383-119	Cleaning Tool for Injector Nozzle Seat	1
KL-1383-104	Cleaning Tool for Injector Nozzle Seat	1
KL-0369-55 B	Compressed Air Adaptor for Glow Plug Bore M10x1	1
KL-1383-110 KA	Injector Nozzle Puller Set, Peugeot/Citroën 2.0 HDi + 2.2 HDi	1
KL-1383-1119	Plastic Storage Case	1

#### Scope of Delivery:

##### KL-1383-110 KA Injector Nozzle Puller Set, Peugeot/Citroën 2.0 HDi + 2.2 HDi

Part No.	Description	Qty
KL-1383-1111	Base Plate with Axial Bearing	1
KL-1383-1112	Shoulder Nut, M16x1.5	1
KL-1383-1113	Pull Spindle, M14x1.5, 132mm long	1
KL-1383-1114	Centring Bolt, Ø 6.8mm	2
KL-1383-1115	Support Bolt, Ø 8.9mm	2
KL-1383-1116	Support Bolt, Ø 16x89.5mm	1
KL-1383-1131	Brace Support Bolt, Ø 16x73.5mm	2
KL-1383-1001	Supporting Plate	1
KL-1383-1021	Pull Spindle, M25x1, 132mm long	1
KL-1383-1022	Special Socket, size (waf) 25mm, 1/2" drive	1
KL-0369-4505 A	Special Bit Insert, size (waf) 10mm	1
KL-0369-4606 A	Pull Spindle, M17x1, with Union Nut M27x1	1
KL-0369-461 A	Special Socket, Size (waf) 29mm, 1/2" drive	1
KL-1283-1016	Cheese Head Screw, M8x30mm	4
KL-0014-0030	Molybdenum Disulphide Paste 50g	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-1383-1119	Plastic Storage Case	1



## KL-1383-113 KA

### Injector Nozzle Puller Set, PSA 2.0 HDI

**Applicable to PSA 2.0 (110bhp, 135bhp) [DW10] TwinCam engines such as found in Citroën, Ford, Fiat, Lancia, Peugeot, Suzuki, Volvo etc.**

This indispensable tool set allows for the professional removal of very tight-fitting injector nozzles, without the need for dismantling the cylinder head. The injector nozzle puller **KL-1383-113 KA** enables accurate extraction of very tight-fitting injector nozzles as well as cleaning the injector nozzle bore and seal seat. The removal of the cylinder head is not necessary. The special design of the extraction bridge ensures safe and accurate support of the puller tools, even if injectors are severely stuck or seized in place. The special pull spindle with additional union nut (to be used on DW10 engines) will facilitate the extraction of even the most stubborn injectors. The injector nozzle needs to be opened for this. (engines: DW10)

#### Scope of Delivery: KL-1383-113 KA Injector Nozzle Puller Set

Part No.	Description	Qty
KL-1383-1111	Base Plate with Axial Bearing	1
KL-1383-1112	Shoulder Nut, M16x1.5	1
KL-1383-1114	Centring Bolt, Ø 6.8mm	1
KL-1383-1131	Brace Support Bolt, Ø 16x73.5mm	2
KL-1383-1001	Support Plate	1
KL-1383-1021	Pull Spindle, M25x1, 132mm long	1
KL-1383-1022	Special Socket, waf 25mm; 1/2" Drive	1
KL-1383-104	Cleaning Tool for Injector Nozzle Seat	1
KL-0369-4505 A	Special Bit Insert, Size (waf) 10mm	1
KL-0369-4606 A	Pull Spindle, M17x1, with Nut, M27x1, 132mm long	1
KL-0369-461 A	Special Socket, Size (waf) 29mm, 1/2" Drive	1
KL-0369-55 B	Compressed Air Adaptor for Glow Plug Bore	1
KL-1283-1016	Cheese Head Screw, M8x30mm	3
KL-0014-0030	Molybdenum Disulphide Paste, 50g	1
KL-1383-1119	Plastic Storage Case	1



#### Note:

Be sure to read and observe the injector nozzle manufacturer's directions and specifications before re-installing an injector nozzle that had been opened. If necessary, have the injector nozzle tested and checked by an authorized workshop.

#### Procedure for Injector Nozzle Removal:

Unscrew injector nozzle head by means of the special socket included in the set. (DW10): Screw pull spindle into injector, and, if using the pull spindle with union nut, additionally screw union nut onto injector nozzle. Place pre-assembled base tool onto cylinder head and screw on shoulder nut. Extract injector nozzle by evenly rotating shoulder nut. Impurities can be prevented from entering the combustion chamber by injecting compressed air into the latter.

## KL-1383-114 KA

### Injector Nozzle Puller Set, PSA 2.0 HDI

**Applicable to PSA 2.0 (110bhp, 135bhp) [DW10] TwinCam engines such as found in Citroën, Ford, Fiat, Lancia, Peugeot, Suzuki, Volvo etc.**

This indispensable tool set allows for the professional removal of very tight-fitting injector nozzles, without the need for dismantling the cylinder head. The injector nozzle puller **KL-1383-114 KA** enables accurate extraction of very tight-fitting injector nozzles as well as cleaning the injector nozzle bore and seal seat. The removal of the cylinder head is not necessary. The special design of the extraction bridge ensures safe and accurate support of the puller tools, even if injectors are severely stuck or seized in place. The special pull spindle with additional union nut (to be used on DW10 engines) will facilitate the extraction of even the most stubborn injectors. The injector nozzle needs to be opened for this. (engines: DW10)

#### Scope of Delivery: KL-1383-114 KA Injector Nozzle Puller Set

Part No.	Description	Qty
KL-1383-1111	Base Plate with Axial Bearing	1
KL-1383-1112	Shoulder Nut, M16x1.5	1
KL-1383-1114	Centring Bolt, Ø 6.8mm	1
KL-1383-1131	Brace Support Bolt, Ø 16x73.5mm	2
KL-1383-1001	Support Plate	1
KL-1383-1021	Pull Spindle, M25x1, 132mm long	1
KL-1383-1022	Special Socket, waf 25mm; 1/2" Drive	1
KL-0369-4505 A	Special Bit Insert, Size (waf) 10mm	1
KL-0369-4606 A	Pull Spindle, M17x1, with Nut, M27x1, 132mm long	1
KL-0369-461 A	Special Socket, Size (waf) 29mm, 1/2" Drive	1
KL-1283-1016	Cheese Head Screw, M8x30mm	3
KL-0014-0030	Molybdenum Disulphide Paste, 50g	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-1383-1119	Plastic Storage Case	1



#### Note:

Be sure to read and observe the injector nozzle manufacturer's directions and specifications before re-installing an injector nozzle that had been opened. If necessary, have the injector nozzle tested and checked by an authorized workshop.

#### Procedure for Injector Nozzle Removal:

Unscrew injector nozzle head by means of the special socket included in the set. (DW10): Screw pull spindle into injector, and, if using the pull spindle with union nut, additionally screw union nut onto injector nozzle. Place pre-assembled base tool onto cylinder head and screw on shoulder nut. Extract injector nozzle by evenly rotating shoulder nut.





## KL-1383-12

### Injector Nozzle Puller with Slide Hammer (4.8 kg), PSA 2.0

**Applicable to PSA 2.0 (90bhp) [DW10 TD] HDI single-camshaft engines as installed in Citroën, Ford, Fiat, Lancia, Peugeot, Suzuki, Volvo etc.**

This tool is designed for the removal of tightly fitting injection nozzles.

**Scope of Delivery:**

**KL-1383-12 Injector Nozzle Puller with Slide Hammer (4.8 kg), PSA 2.0**

Part No.	Description	Qty
KL-1383-121	Pull Spindle Set, M17x1 [for Bosch injector nozzles]	1
KL-1383-122	Pull Spindle Set, M27x1 [for Siemens injector nozzles]	1
KL-0369-411	Injector Nozzle Puller with 4.8kg Slide Hammer (without Pull Spindle)	1



**Technical Data:**

Drive:	T-Handle
Length:	261mm
Cleaning tool Ø:	7.5/17mm

## KL-1383-104

### Cleaning Tool for Injector Nozzle Seat, Peugeot/Citroën/Fiat/Lancia/Suzuki

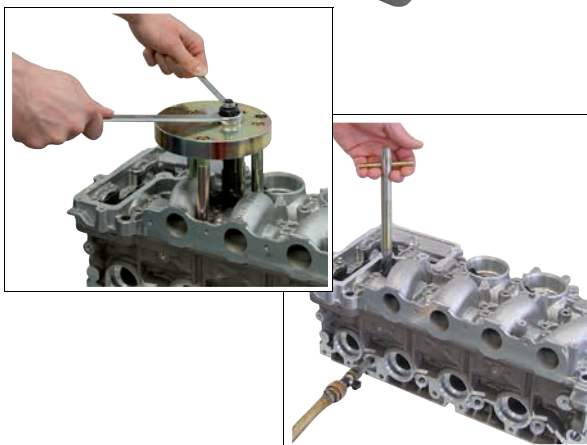
**Applicable to 2.0 HDI, 2.0 JTD Common Rail Diesel engines on Peugeot, Citroën, Fiat, Lancia, Suzuki; engine code: DW10**

- Mercedes; engine code: OM646 EVO
- Renault, Nissan, Vauxhall/Opel 2.2 DTI, CDTI, CDI; engine code: G9T
- Renault, Nissan, Vauxhall/Opel 2.5 DTI, CDTI, CDI; engine code: G9U

The special design of this cleaning tool enables the injection nozzle bore, the seal seat and the injector channel to be cleaned in one single operation.

Important! Before any re-installation/installation of an injector, it is essential to clean the seal seat in the cylinder head from deposits such as carbon deposits in order to prevent leakage between cylinder head and injector.

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## KL-1383-111 K

### Injector Nozzle Puller Set, PSA 2.2 HDI

**Applicable to PSA 2.2 [DW12] HDI TwinCam engines such as Citroën, Ford, Fiat, Jaguar, Lancia, Peugeot etc.**

Indispensable for the professional removal of very tight-fitting/stuck injector nozzles without removal of the cylinder head from the vehicle. The injector nozzle puller **KL-1383-111 K** enables the accurate extraction of very tight-fitting injector nozzles as well as cleaning the injector nozzle bore and injector seal seat. The removal of the cylinder head is not necessary. The special design of the extraction bridge ensures safe and accurate support, even if the injector nozzles are extremely tight-fitting or seized in place.

**Procedure of injector nozzle removal:**

Screw pull spindle onto the injector nozzle, place pre-assembled base tool onto cylinder head and screw on shoulder nut. Extract injector nozzle by evenly rotating shoulder nut. Impurities can be prevented from entering the combustion chamber by injecting compressed air into the latter.

**Scope of Delivery: KL-1383-111 K Injector Nozzle Puller Set**

Part No.	Description	Qty
KL-1383-1111	Base Plate with Axial Bearing	1
KL-1383-1112	Shoulder Nut, M16x1.5	1
KL-1383-1113	Pull Spindle, M14x1.5, 132mm long	1
KL-1383-1114	Centring Bolt, Ø 6.8mm	2
KL-1383-1115	Support Bolt, Ø 8.9mm	2
KL-1383-1116	Support Bolt, Ø 16x89.5mm	1
KL-1383-118	Compressed Air Adaptor for M8x1 Glow Plug Bore	1
KL-1383-119	Cleaning Tool for Injector Nozzle Seat	1
KL-1283-1016	Cheese Head Screw, M8x30	4
KL-0014-0030	Molybdenum Disulphide Paste, 50g	1
KL-1383-1119	Plastic Storage Case	1

## KL-1383-112 K

### Injector Nozzle Puller Set Peugeot / Citroën 2.2 HDi

**Applicable to PSA 2.2 [DW12] HDI TwinCam engines such as Citroën, Ford, Fiat, Jaguar, Lancia, Peugeot etc.**

Allows for the professional removal of very tight-fitting injector nozzles without removing the cylinder head from the vehicle.

The injector nozzle puller **KL-1383-112 K** enables the accurate extraction of very tight-fitting injector nozzles. Removal of the cylinder head is not necessary.

The special design of the extraction bridge ensures safe and accurate support, even if the injector nozzles are extremely tight-fitting/seized in place.

**Procedure of the injector nozzle removal:**

Screw pull spindle onto the injector nozzle, place pre-assembled base tool onto cylinder head and screw on shoulder nut. Extract injector nozzle by evenly rotating shoulder nut.

**Scope of Delivery:**

**KL-1383-112 K Injector Nozzle Puller Set Peugeot / Citroën 2.2 HDi**

Part No.	Description	Qty
KL-1383-1111	Base Plate with Axial Bearing	1
KL-1383-1112	Shoulder Nut, M16x1.5	1
KL-1383-1113	Pull Spindle, M14x1.5, 132mm long	1
KL-1383-1114	Centring Bolt, Ø 6.8mm	2
KL-1383-1115	Support Bolt, Ø 8.9mm	2
KL-1383-1116	Support Bolt, Ø 16x89.5mm	1
KL-1283-1016	Cheese Head Screw, M8x30	4
KL-0014-0030	Molybdenum Disulphide Paste, 50g	1
KL-1383-1119	Plastic Storage Case	1



## KL-1383-119

### Cleaning Tool for Injector Nozzle Seat, Peugeot/Citroën/Fiat/Lancia

**Applicable to the 2.2 HDi, 2.2 JTD Common Rail Diesel engines DW12 on Peugeot, Citroën, Fiat, Lancia.**

In a single machining operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seal seat and the small aperture leading to the combustion chamber.

Indispensable procedure before re-installing/installing an injector nozzle to avoid leakage between cylinder head and injector nozzle.



**Technical Data:**

Drive:	T-handle
Length:	275mm
Cleaning tool Ø:	7.5/17/19.6mm

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## KL-1383-1311

### Cleaning Tool for Injector Nozzle Seat, PSA 1.6

**Applicable to 1.6 PSA Common Rail Diesel engines on**

- Fiat 1.6 HDi; engine code: DV6, 9HX, 9HY, 9HZ
- Ford 1.6 TDCi; engine code: G8DA, G8DB, HHDA, HHJA, HHJB
- Volvo 1.6 D; engine code: D4164T
- Mazda 1.6 D; engine code: Y6

In a single machining operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seal seat and the small aperture leading to the combustion chamber.

Indispensable procedure before re-installing/installing an injector nozzle to avoid leakage between cylinder head and injector nozzle.



**Technical Data:**

Drive:	T-handle
Length:	295mm
Cleaning tool-Ø:	7.5/17/17.6/18.7mm



## KL-1383-131 K

Cleaning Tool for Injector Nozzle Seat, with Compressed Air Adaptor, PSA/Ford/Volvo/Mazda

**Applicable to:**

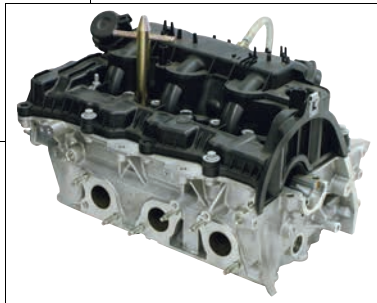
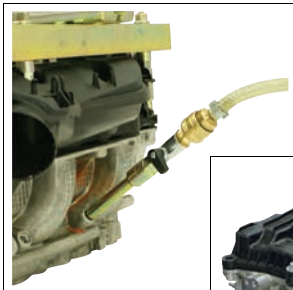
- PSA, Fiat 1.6 16V HDI engines: DV6, 9HX, 9HY, 9HZ
- Ford 1.6 16V TDCi engines: G8DA, G8DB, HHDA, HHJA, HHJB
- Volvo 1.6 16V D engines: D4164T
- Mazda 1.6 16V D engines: Y6

The special design of the cleaning tool **KL-1383-1311** allows the injector nozzle mounting hole, the nozzle seal seat, and the small aperture leading to the combustion chamber to be cleaned in a single operation. Impurities can be prevented from entering the combustion chamber by screwing the compressed air adaptor **KL-1383-118** into the glow plug bore hole and injecting air into the combustion chamber.

**Scope of Delivery:**

**KL-1383-131 K Cleaning Tool for Injector Nozzle Seat**

Part No.	Description	Qty
KL-1383-118	Compressed Air Adaptor for M8x1 Glow Plug Bore	1
KL-1383-1311	Cleaning Tool for Injector Nozzle Seat	1
KL-1383-1329	Plastic Storage Case	1



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## KL-1383-132 K

Cleaning Tool Set for Injector Nozzle Seat, with Compressed Air Adaptor, Mercedes/PSA

**Applicable to: Mercedes: OM639, OM640, OM642, OM651; PSA: 2.7 HDI engine: DT17, 3.0 HDI engine: DT20.**

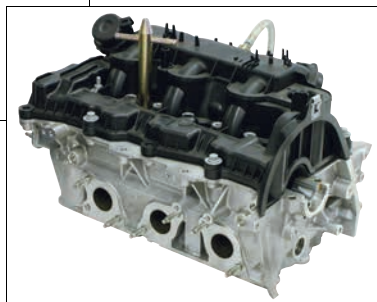
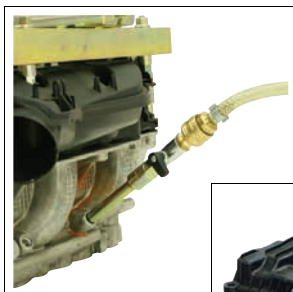
The special design of the cleaning tool **KL-0369-20 A** allows the injector nozzle mounting hole, the nozzle seal seat, and the small aperture leading to the combustion chamber to be cleaned in a single operation.

Impurities can be prevented from entering the combustion chamber by screwing the compressed air adaptor **KL-1383-118** into the glow plug bore hole and injecting air into the combustion chamber.

**Scope of Delivery:**

**KL-1383-132 K Cleaning Tool Set for Injector Nozzle Seat**

Part No.	Description	Qty
KL-1383-118	Compressed Air Adaptor for M8x1 Glow Plug Bore M8x1	1
KL-0369-20 A	Cleaning Tool for Injector Nozzle Seat	1
KL-1383-1329	Plastic Storage Case	1



**Accessories (on demand):**

**1993 U-20** CODE:1436686 - Reversible ratchet



**1 B - Combination Spanner UD-Profile**



## KL-1683-30 K

### Injector Clamp Screw Drill-Out Tool Kit, Citroën, Peugeot, Fiat, Iveco 2.3, 3.0 HDI/JTD/HPI

Suitable for use on Citroën and Peugeot 3.0 HDI, as well as Fiat and Iveco 2.3, 3.0 JTD/HPI Common Rail Diesel engines; for example, as fitted to: Citroën Relay/Jumper III; Peugeot Boxer III; Fiat Ducato and Iveco Daily. (Engine codes: F1AE0481A, F1AE0481B, F1AE0481C, F1AE0481D, F1AE0481F, F1AE0481FA, F1AE0481G, F1AE0481GA, F1AE0481H, F1AE0481HA, F1AE0481N, F1AE0481R, F1AE0481RA, F1AE0481UA, F1AE0481VA, F1CE0481A, F1CE0481B, F1CE0481D, F1CE0481F, F1CE0481H, F1CE3481E, F1CE3481M, F1CE3481N, F30DTE [F1CE 0481D, F1CE 3481D, F1CE 3481DM, F1CE 3481E, F1CE 3481N])

The **KL-1683-30 K** injector clamp screw drill-out tool kit enables the accurate removal respectively drilling out of torn-off screws that hold the injector clamp in place, as well as re-cutting the original M8x1.25 thread.

It also allows the user to repair a damaged M8x1.25 injector clamp screw retaining thread by drilling it up to M10x1.25. Then, the new injector clamp screw along with a threaded sleeve (M10x1.25 to M8x1.25) can be screwed into the cylinder head.



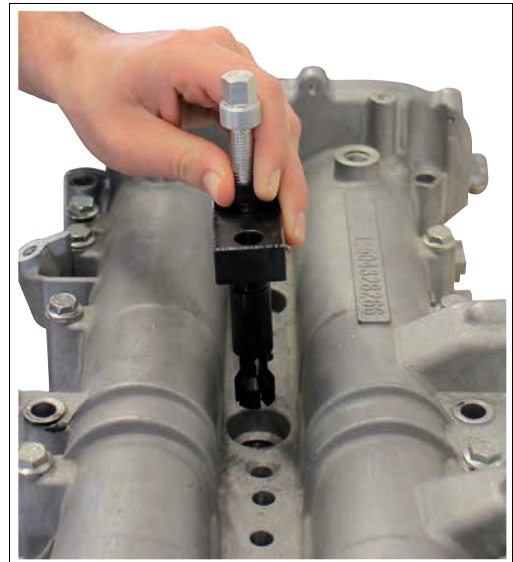
#### Technical Data:

For clamp screw thread:	M8x1.25
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#### Scope of Delivery:

##### KL-1683-30 K Injector Clamp Screw Drill-Out Tool Kit

Part No.	Description	Qty
KL-1683-300	Base Tool	1
KL-1683-3011	Drill Sleeve, Ø 6.8mm	1
KL-1683-3012	Pilot Drill, Ø 6.8mm	1
KL-1683-3021	Drill Sleeve, Ø 10.1mm	1
KL-1683-3022	Re-Bore Drill, Ø 10.1mm	1
KL-1683-3032	Screw Tap, M8	1
KL-1683-3041	Drill Sleeve, Ø 9.1mm	1
KL-1683-3042	Pilot Drill, Ø 9.1mm	1
KL-1683-3052	Screw Tap, M10x1.25	1
KL-1683-3053	Set of Threaded Sleeves, M8	1
KL-0181-53	Stud Remover/Installer, 8mm	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-1683-3090	Plastic Storage Case	1



## KL-1683-300

### Base Tool

Suitable for use on Citroën and Peugeot 3.0 HDI, as well as Fiat and Iveco 2.3, 3.0 JTD/HPI Common Rail Diesel engines; for example, as fitted to Citroën Relay/Jumper III; Peugeot Boxer III; Fiat Ducato and Iveco Daily. (Engine codes: F1AE0481A, F1AE0481B, F1AE0481C, F1AE0481D, F1AE0481F, F1AE0481FA, F1AE0481G, F1AE0481GA, F1AE0481H, F1AE0481HA, F1AE0481N, F1AE0481R, F1AE0481RA, F1AE0481UA, F1AE0481VA, F1CE0481A, F1CE0481B, F1CE0481D, F1CE0481F, F1CE0481H, F1CE3481E, F1CE3481M, F1CE3481N, F30DTE [F1CE 0481D, F1CE 3481D, F1CE 3481DM, F1CE 3481E, F1CE 3481N])

#### Scope of Delivery:

##### KL-1683-300 Base Tool

Part No.	Description	Qty
KL-1683-3003	Knurled Screw	1
KL-1683-3001	Setting Gauge for Drill	1
KL-1683-3002	Collet Chuck	1
KL-0117-2105	Set Screw, M5x6	2





## KL-1283-13 K

### Injector Nozzle Puller Set,

Renault/Dacia/Nissan/Opel/Vauxhall/Suzuki

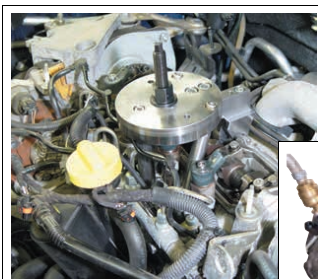
**Suitable for 1.5 dCi (engine code: K9K) and 1.9 dCi (engine code: F9Q) Common Rail Diesel engines. As found in Renault, Dacia, Nissan, Opel/Vauxhall, Suzuki, etc.**

This puller set enables the professional extraction of very tight-fitting injector nozzles as well as the cleaning of the injector nozzle bore hole and seal seat, without having to remove the cylinder head from the vehicle. The extraction bridge is specifically designed for the above mentioned vehicles in order to ensure safe and accurate support of the tool, even if injectors are very tight-fitting or seized in place. Alternatively, the **KL-0040-170** hydraulic cylinder (17t) in conjunction with a special pull spindle and a hydraulic pump such as **KL-0215-35 M25** can be used instead of the mechanical drive. The injector nozzle puller set **KL-1283-11 K** (1.9 dCi; F9Q) and of injector nozzle puller set **KL-1283-12 K** (1.5 dCi; K9K).

#### Scope of Delivery: KL-1283-13 K Injector Nozzle Puller Set

Part No.	Description	Qty
KL-1283-115	Extraction Bridge with Spindle, 1.9 dCi	1
KL-1283-112	Cleaning Tool for Injector Nozzle Seat	1
KL-0369-4505 A	Special Bit Insert, Size (waf) 10mm	1
KL-0369-55 B	Compressed Air Adaptor for M10x1 Glow Plug Bore	1
KL-1283-103	Special Socket, Size (waf) 30mm, 1/2" drive	1
KL-1283-1211	Support Plate	1
KL-1283-1212	Support Bolt with Pin	1
KL-1283-1213	Shaped Piece	1
KL-1383-1113	Pull Spindle M14x1.5, 132mm long	1
KL-1283-122	Cleaning Tool for Injector Nozzle Seat	1
KL-0014-0030	Molybdenum Disulphide Paste, 50g	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-1283-1290	Plastic Storage Case	1

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## KL-1283-11 K

### Injector Nozzle Puller Set, 1.9 dCi

**Suitable for 1.9 dCi engines (engine code: F9Q) e.g. in Renault, Nissan, Opel/Vauxhall, Suzuki, etc.**

For the professional removal of very tight-fitting injection nozzles without the need for dismounting the cylinder head.

The **KL-1283-11 K** injector nozzle puller set allows for the precise extraction of very tight-fitting injector nozzles as well as cleaning the injector nozzle mounting bore and seat.

It is not necessary to remove the cylinder head from the vehicle.

The special shape of the extraction bridge ensures safe and precise support of the tool even if the injector nozzles are extremely stuck/tight-fitting.

#### Injector nozzle removal:

Unscrew injector nozzle top part with the special socket included in the set. Screw pull spindle into injector nozzle, place pre-assembled base tool onto the cylinder head and screw on shoulder nut. Pull out nozzle by turning the shoulder nut. The supply of compressed air into the combustion chamber prevents impurities from entering the latter.

#### Scope of Delivery: KL-1283-11 K Injector Nozzle Puller Set, 1.9 dCi

Part No.	Description	Qty
KL-1283-115	Extraction Bridge with Spindle, 1.9 dCi	1
KL-1283-112	Cleaning Tool for Injector Nozzle Seat	1
KL-0369-4505 A	Special Bit Insert, Size (waf) 10mm	1
KL-0369-55 B	Compressed Air adaptor for M10x1 Glow Plug Bore	1
KL-1283-103	Special Socket, Size (waf) 30mm, 1/2" drive	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-1283-1190	Plastic Storage Case	1

## KL-1283-110 K Injector Nozzle Puller Set, Renault 1.9 dCi

**Suitable for 1.9 dCi engines (engine code: F9Q) as found in Renault, Nissan, Opel/Vauxhall, Suzuki, etc.**

An indispensable tool set for the professional removal of very tight-fitting injector nozzles without the need for dismantling the cylinder head.

The **KL-1283-110 K** injector nozzle puller allows for the precise extraction of very tight-fitting injector nozzles. It is not necessary to remove the cylinder head from the vehicle using this tool.

The extraction bridge is specifically designed for the above mentioned vehicles in order to ensure safe and accurate support of the tool, even if injectors are very tight-fitting or seized in place.

### Procedure for injector nozzle removal:

Unscrew injector nozzle top part with the special socket included in the set. Screw pull spindle into injector nozzle, place pre-assembled base tool onto cylinder head and screw on shoulder nut. Pull out nozzle by evenly turning the shoulder nut.

### Scope of Delivery:

#### KL-1283-110 K Injector Nozzle Puller Set, Renault 1.9 dCi

Part No.	Description	Qty
KL-1283-115	Extraction Bridge with Spindle, 1.9 dCi	1
KL-0369-4505 A	Special Bit Insert, Size (waf) 10mm	1
KL-1283-103	Special Socket, Size (waf) 30mm, 1/2" Drive	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-1283-1190	Plastic Storage Case	1



## KL-1283-12 K Injector Nozzle Puller Set, Renault/Dacia/Nissan/Opel/Vauxhall/Suzuki

**Suitable for 1.5 dCi (engine code: K9K) Common Rail-Diesel engines.**

**As found in Renault, Dacia, Nissan, Opel/Vauxhall, Suzuki, etc.**

For the professional removal of very tight-fitting injector nozzles without the need for dismantling the cylinder head.

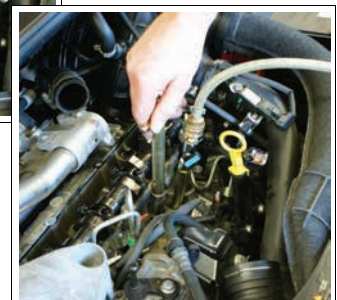
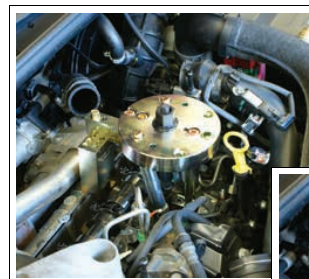
The **KL-1283-12 K** injector nozzle puller set allows for the precise extraction of very tight-fitting injector nozzles as well as cleaning the injector nozzle mounting bore and seal seat.

Removal of the cylinder head from the vehicle is not necessary. The special design of the extraction bridge ensures safe and accurate support, even if the injector nozzles are extremely tight-fitting or seized in place.

### Scope of Delivery:

#### KL-1283-12 K Injector Nozzle Puller Set

Part No.	Description	Qty
KL-1283-125	Extraction Bridge with Spindle, 1.5 dCi	1
KL-1283-122	Cleaning Tool for Injector Nozzle Seat	1
KL-0369-55 B	Compressed Air Adaptor for M10x1 Glow Plug Bore	1
KL-0014-0030	Molybdenum Disulphide Paste, 50 g	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-1283-1290	Plastic Storage Case	1





## KL-0186-14 K

(German Utility Model)

### Injector Nozzle Puller Set (Universal), with Accessories

For description, please refer to Chapter 6.4-01.

## KL-0186-220

### Upgrade Kit for KL-0186-14 K

Suitable for the Opel/Vauxhall, Saab and Fiat 1.3\*, 1.6, 1.7 and 2.0 Common Rail Diesel engines, as found in Opel/Vauxhall (1.3\*, 1.6, 1.7 and 2.0 engines) Agila, Insignia, Combo, Corsa C, Corsa D, Meriva A, Mokka, Astra H, Astra J, Meriva B, Zafira A, Zafira B, Tigra B; Fiat (1.3\* and 1.6 engines) Punto (188), Idea (135), Doblo (223), Linea (110), Bravo (198), Doblo (263); Saab (2.0 Motor) 9-5 (9650).

The KL-0186-220 tool kit is designed to upgrade the KL-0186-14 K injector nozzle puller so that it also covers the above mentioned engines.

#### Scope of Delivery:

#### KL-0186-220 Upgrade Kit for KL-0186-14 K

Part No.	Description	Qty
KL-0186-1232	Set of Support Bolts, M8, 120mm	1
KL-0186-1238	Set of Support Bolts, M6, 145mm	1
KL-0186-1239	Set of Support Bolts, M7, 132.5mm	1
KL-0186-1261	Set of Spacer Nuts, 10mm	1
KL-1383-1222 A	Special Socket, Size (waf) 29mm	1
KL-0186-2201	Special Insert	1
KL-0186-1611	Pull Spindle, M20x1mm, 145mm long	1

(Engine codes: Opel/Vauxhall: Z13DT\*, Z13DTH\*, Z13DTC\*, Z13DTJ\*, A13DTE, A16FDH, A16FDL, A17DT, A17DTC, A17DTJ, A17DTR, A20DT, A20DTC, A20DTH, A20DTJ, A20DTR; Fiat: 188A9.000\*, 198A3.000; Saab: A20DTH, A20DTR)

\*Note: With 1.3 litre engines, always two injector nozzles need to be extracted simultaneously. (see KL-1683-10 K)

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## KL-0186-210

### Upgrade Kit for KL-0186-14 K

Renault / Nissan / Opel/Vauxhall 2.0, 2.2, 2.5, 3.0 dCi

Applicable to the following Diesel engines: Renault / Nissan / Opel/Vauxhall 2.0 dCi (engine code M9R), 2.2 dCi (engine code G9T), 2.5 dCi (engine code G9U) and 3.0 dCi (engine code P9X\*, ZD3).

The KL-0186-210 tool kit is designed to upgrade the KL-0186-14 K injector nozzle puller set so that it also covers the above mentioned engines.

#### Scope of Delivery:

#### KL-0186-210 Upgrade Kit for KL-0186-14 K (to form KL-0186-21 K)

Part No.	Description	Qty
KL-0186-1234	Set of Support Bolts, M6, 113.5mm and 153.5mm	1
KL-0186-1236	Set of Support Bolts, M6	1
KL-0186-1235-2	Set Screw, M6x25mm	4
KL-0186-1255	Spacer Nut, M8	4
KL-0583-1032	Pull Spindle, M14x1.5, 200mm	1
KL-0186-1611 H	Pull Spindle, M20x1, 250mm	1

\*Note: V-engines might require the removal of the engine due to lack of space.

## KL-0186-190

### Upgrade Kit for KL-0186-14 K, Renault/Nissan/Opel/Vauxhall

**Applicable to Renault, Nissan, Opel/Vauxhall 3.0 Common Rail Diesel engines (engine code: ZD3); e.g. fitted to Renault: Master (II and III), Master Maxi; Nissan: Cabstar (III), Interstar, Patrol (III), Patrol GR (II), Terano and Opel/Vauxhall: Movano (II).**

**As well as for Renault 3.0 V6 Common Rail Diesel engines (engine code P9X\*) e.g. fitted to Renault: Espace (IV), Vel Satis.**

**\*Note:** V-engines might require the removal of the engine due to space constraints.

The **KL-0186-190** tool kit is designed to upgrade the **KL-0186-14 K** injector nozzle puller set so that it also covers the above mentioned engines.

**Scope of Delivery:**

**KL-0186-190 Upgrade Kit for KL-0186-14 K (to form KL-0186-19 K)**

Part No.	Description	Qty
KL-0186-1238	Set of Support Bolts, M6	1
KL-0186-1255	Spacer Nut, M8	4
KL-0186-1611 H	Pull Spindle, M20x1, 250mm	1



## KL-0186-200

### Upgrade Kit for KL-0186-14 K, Renault/Nissan/Opel/Vauxhall

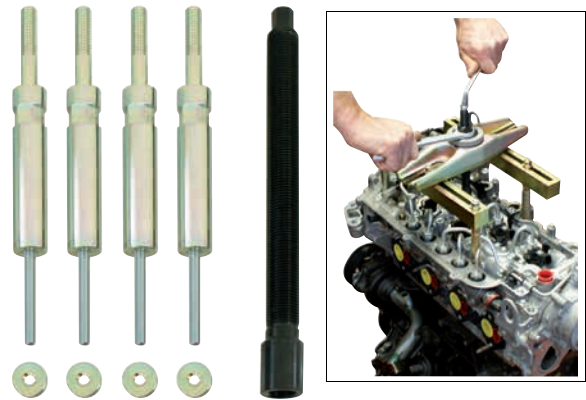
**Applicable to Renault, Nissan and Opel/Vauxhall 2.0 dci Diesel engines (engine code M9R). Injector nozzles with fuel line connection at the top.**

The **KL-0186-200** tool kit is designed to upgrade the **KL-0186-14 K** injector nozzle puller set so that it also covers the above mentioned engines.

**Scope of Delivery:**

**KL-0186-200 Upgrade Kit for KL-0186-14 K (to form KL-0186-20 K)**

Part No.	Description	Qty
KL-0186-1236	Set of Support Bolts, M6	1
KL-0583-1032	Pull Spindle, 200mm long	1



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## KL-0186-202

### Upgrade Kit for KL-0186-14 K (in conjunction with KL-0186-200)

**Suitable for Renault, Nissan and Opel/Vauxhall 2.0 CDTi (M9R) Common Rail Diesel engines as found, e.g., in: Renault Espace/Grand Espace IV, Koleos, Laguna II, Laguna III, Latitude, Megane II, Megane III, Scenic/Grand Scenic II, Scenic/Grand Scenic III, Trafic II, Vel Satis; Nissan Primastar, Qashqai I, Qashqai II, X-Trail and Opel/Vauxhall Vivaro-A.**

The **KL-0186-202** upgrade kit is used in conjunction with the **KL-0186-14 K** injector nozzle puller set as well as upgrade kit **KL-0186-200**, thus allowing the removal of very tight-fitting/stuck injectors to be performed in situ on the vehicle without the need for removing the cylinder head. The injector can be extracted in one piece quickly and with ease using the special puller claw and the **KL-0583-1032** pull spindle (supplied with **KL-0186-200**). The injector nozzle needs to be opened for this.

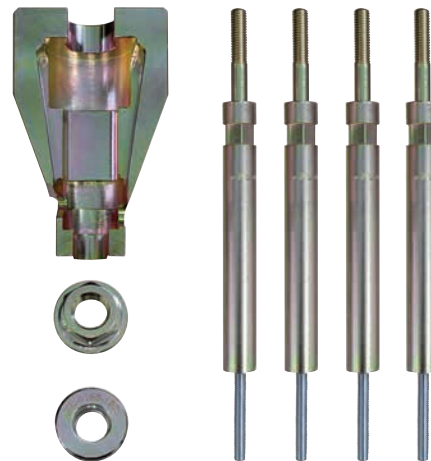
**Procedure:**

Screw pull spindle onto injector nozzle, mount special puller claw. Unscrew valve cover screws (4 screws) and replace with special support bolts. Mount extraction bridge and screw on shoulder nut. Extract injector nozzle by turning shoulder nut.

**KL-0186-202 H Upgrade Kit with Hydraulic Cylinder (17t, short design) for KL-0186-14 K, in conjunction with KL-0186-200.**

Like the **KL-0186-202**, however, supplied with:

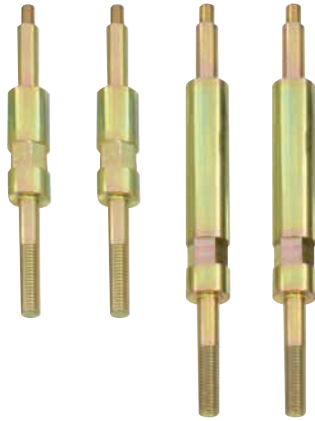
**KL-0040-170 A** Hydraulic Cylinder, 17t (short design), with Shoulder Nut M16x1.5 and Safety Belt and **KL-0583-1032 H** Pull Spindle, M14x1.5x315mm.



**Scope of Delivery: KL-0186-202 Upgrade Kit for KL-0186-14 K**

Part No.	Description	Qty
KL-0186-1236 L	Set of Support Bolts, M6, 170mm	1
KL-0186-2021	Puller Claw	1
KL-0186-1323	Hex Nut	1
KL-0186-1322	Knurled Nut	1





## KL-0186-1234

### Set of Support Bolts, M6 (113.5mm and 153.5mm)

Applicable to Renault, Nissan, Opel/Vauxhall 2.2 and 2.5 dCi Diesel engines (engine code: G9T and G9U) e.g. Renault: Avantime, Espace III, Espace IV, Laguna II, Master II, Master III, Traffic II, Vel Satis; Nissan: Interstar, Primastar and Vauxhall/Opel Movano, Vivaro.

The KL-0186-1234 support bolt set upgrades the injector nozzle puller set KL-0186-14 K by making it also suitable for use on the above mentioned engines.

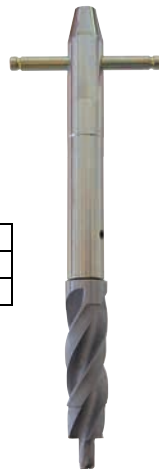
#### Scope of Delivery:

KL-0186-1234 Set of Support Bolts M6 (113.5mm and 153.5mm)

Part No.	Description	Qty
KL-0186-1234-1	Support Bolt, 113.5mm	2
KL-0186-1234-2	Support Bolt, 153.5mm	2

#### Technical Data:

Drive:	T-handle
Length:	245mm
Cleaning tool Ø:	7.5/17.4/19mm



## KL-1283-112

### Cleaning Tool for Injector Nozzle Seat, Renault/Nissan/Opel/Vauxhall/Suzuki/Mitsubishi

Suitable for the Common Rail Diesel engines F9Q on Renault, Nissan, Opel/Vauxhall, Suzuki, Mitsubishi 1.9 dTi, 1.9 dCi, 1.9 CDTI, 1.9 Di, 1.9 DDIs, 1.9 Di-D.

In a single machining operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seal seat and the small aperture leading to the combustion chamber.

Indispensable procedure before re-installing an injection nozzle to avoid leakage between cylinder head and injection nozzle.

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## KL-1283-122

### Cleaning Tool for Injector Nozzle Seat, Renault/Suzuki/Nissan/Dacia

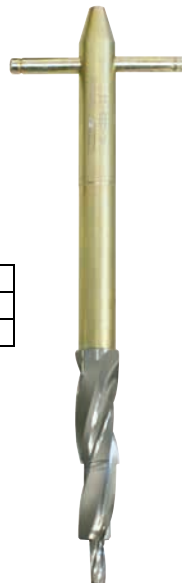
Suitable for the Common Rail Diesel engines K9K on Renault, Suzuki, Nissan, Dacia 1.5 dCi, 1.5 DDis.

In a single machining operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seal seat and the small aperture leading to the combustion chamber.

Indispensable procedure before re-installing/installing an injection nozzle to avoid leakage between cylinder head and injection nozzle.

#### Technical Data:

Drive:	T-handle
Length:	265mm
Cleaning tool Ø:	7.5/17/20.1mm



## KL-0186-14 K (German Utility Model)

### Injector Nozzle Puller Set (Universal), with Accessories



For description, please refer to Chapter 6.4-01.

## KL-0186-1610 B

### Upgrade Kit for KL-0186-14 K

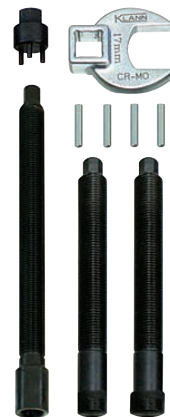
Suitable for the Toyota, Lexus, Mini 1.4, 2.0, 2.2, 2.5 and 3.0 Common Rail Diesel engines as found in the following vehicles: Lexus IS; Mini One (R50); Toyota Auris, Avensis, Corolla Verso/CombiVan, Dyna, Hiace, Hiace/PowerVan, Hilux, IQ, Landcruiser/Prado, RAV4, Verso, Verso/Sportsvan, Yaris. (Engine codes: 1ND-TV, 1CD-FTV, 1KD-FTV, 2AD-FHV, 2AD-FTV, 2KD-FTV H, 2KD-FTV L, W17D14 [1ND])

Used in conjunction with the KL-0186-14 K universal injector nozzle puller set with accessories, the KL-0186-1610 B upgrade kit enables the removal of very tight-fitting/seized injector nozzles to be performed directly on the vehicle without having to dismount the cylinder head.

The special extraction bridge and the pull spindle allow the user to extract the injector nozzle quickly and easily. The injector nozzle needs to be opened for this.

#### Procedure:

Unscrew injector top part, disassemble remains of injector, screw in pull spindle, unscrew valve cover screws (4 screws), mount extraction bridge, screw on shoulder nut. Extract injector by turning the shoulder nut.



#### Technical Data:

Connection thread of pull spindle KL-0583-1032:	M14x1.5
Connection thread of pull spindle KL-0186-1612:	M16x1
Connection thread of pull spindle KL-0186-1611:	M20x1

#### Scope of Delivery:

##### KL-0186-1610 B Upgrade Kit for KL-0186-14 K

Part No.	Description	Qty
KL-0583-1032	Pull Spindle, M14x1.5, 200mm long	1
KL-0186-1611	Pull Spindle, M20x1, 145mm long	1
KL-0186-1612	Pull Spindle, M16x1, 145mm long	1
KL-0186-2201	Special Insert	1
KL-4417-17	Crowfoot Wrench, Size (waf) 17mm	1
KL-0186-1235-2	Set Screw, M6x25mm	4

## KL-0186-1611 A

### Pull Spindle, M20x1, with 2 Nuts M25, 145mm long



Suitable for injector nozzles equipped with an M20x1 internal thread, such as DENSO injectors. Installed in Renault Relay/Jumper III, Jumper; Fiat Ducato (250), Linea (110), Bravo (198), Doblo (263); Ford Transit; Isuzu D-Max / Rodeo, N-Series; Mazda 3, 5, 6, MPV; Mitsubishi L200, Pajero / Montero; Nissan X-Trail, Promera, Almera, Primera, Navara, Pathfinder; Opel/Vauxhall Astra H, Astra J, Combo, Corsa D, Meriva B, Insignia, Zafira B, Signum, Vectra C; Peugeot Boxer III; Renault Vel Satis, Espace; Saab 9-5; Toyota Avensis, Corolla Verso, RAV 4 III, Land Cruiser 90, Hiace IV, Hilux II, Hilux III, Dyna, Previa 1.6, 1.7, 2.2, 2.5 and 3.0 Common Rail Diesel engines.

(Engine codes: 198A3.000, 1KD-FTV, 2AD-FT, 2KD-FTV, 4D56, 4HM, 4HU, 4HV, 4JJ1, 4JK1, 4M41, 6DE1, A16FDH, A16FDL, A17DT, A17DTC, A17DTJ, A17DTR, CD-FTV, CYFA, CYFB, CYFC, DRFA, DRFB, DRFC, P22DTE, P8FA, P8FB, P9X, PGFA, PGFB, QVFA, QWFA, RF5C, RF-DI, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, USRA, YD22, YD25.)

The pull spindle upgrades the universal injector nozzle puller set KL-0186-14 K (in conjunction with the respective vehicle-specific upgrade kit KL-0186-1610 A or KL-0186-220) by making it suitable for use also on very tight-fitting/seized injector nozzles.

The advantage of using this tool is that - by screwing the pull spindle into the injector nozzle and additionally screwing the corresponding union nut onto the injector - the applied pulling force is evenly distributed on both threads. This allows even very tight-fitting/stuck injector nozzles to be extracted with ease.

#### Technical Data:

Connection thread:	M20x1
Union nut (KL-0186-1611-2):	M25x0.5
Union nut (KL-0186-1611-3):	M25x0.75
Length:	145mm

#### Scope of Delivery:

##### KL-0186-1611 A Pull Spindle M20x1, with 2 Nuts M25,

Part No.	Description	Qty
KL-0186-1611-1	Pull Spindle, M20x1, 145mm long	1
KL-0186-1611-2	Union Nut, M25x0.5mm	1
KL-0186-1611-3	Union Nut, M25x0.75mm	1



## KL-0186-163 K

### Injector Nozzle Seat Cleaning Tool, with Compressed Air Adaptor, Toyota

Suitable for the Toyota, Lexus, Mini 1.4, 2.0, 2.2, 2.5 and 3.0 Common-Rail Diesel engines as found in the following vehicles: Lexus IS; Mini One (R50); Toyota Auris, Avensis, Corolla Verso/CombiVan, Dyna, Hiace, Hiace/PowerVan, Hilux, IQ, Landcruiser/Prado, RAV4, Verso, Verso/Sportsvan, Yaris.

(Engine codes: 1ND-TV, 1CD-FTV, 1KD-FTV, 2AD-FHV, 2AD-FTV, 2KD-FTV H, 2KD-FTV L, W17D14 [1ND])

The special design of the **KL-0369-20 A** cleaning tool allows the injector mounting bore, the nozzle seal seat, and the small aperture leading to the combustion chamber to be cleaned in a single operation.

With the aid of the **KL-0186-1631** compressed air adaptor, which is to be screwed into the glow plug bore, compressed air can be injected into the combustion chamber so as to prevent impurities from entering the latter.

#### Scope of Delivery:

#### KL-0186-163 K Injector Nozzle Seat Cleaning Tool, with Compressed Air Adaptor

Part No.	Description	Qty
KL-0186-1631	Compressed Air Adaptor for Glow Plug Bore, M10x1.25	1
KL-0369-20 A	Cleaning Tool for Injector Nozzle Seat	1
KL-1383-1329	Plastic Storage Case	1

6



## KL-0186-70 K

### Fuel Injector Sleeve Removal Tool

Universally suitable for Diesel engines having an injector nozzle seal seat  $\varnothing$  of 15mm; as fitted to: Alfa Romeo, BMW, Chevrolet, Chrysler, Fiat, Ford, Hyundai, Iveco, Mazda, Mercedes, Opel/Vauxhall, PSA, Renault, Toyota and Volvo.

The **KL-0186-70 K** fuel injector sleeve removal tool is designed to be used in conjunction with an injector nozzle puller set of the **KL-0186-...**, **KL-0369-...**, **KL-0583-...**, **KL-1283-...**, **KL-1383-...** or **KL-1683-...** Series and the **KL-0040-170 A** hydraulic cylinder (with safety belt), thus allowing for the precise removal of the injector sleeve if injectors are broken off. No need for removing the cylinder head. This is an essential tool if a seized injector nozzle breaks during removal and the injector sleeve remains stuck in the cylinder head. The use of the special pull spindle **KL-0186-7051 H** (included in the kit), allows the user to extract the complete injector sleeve quickly and with ease.

#### Procedure:

Disassemble the remains of the broken-off injector, cut a thread into injector sleeve, screw in pull spindle, pull out injector sleeve with the aid of the corresponding injector nozzle puller set.

#### Scope of Delivery:

#### KL-0186-70 K Fuel Injector Sleeve Removal Tool

Part No.	Description	Qty
KL-0186-701	Nozzle Needle Removal Tool	1
KL-0186-702	Nozzle Needle Removal Tool	1
KL-0186-703	Nozzle Needle Removal Tool	1
KL-0186-704	Screw Tap, 7/16-20UNC, with Holder	1
KL-0186-501	Extension	1
KL-0186-7051 H	Pull Spindle, 7/16-20UNF	1
KL-0186-7043	Rubber-Coated Annular Magnet	2
KL-0126-221	Flexible Magnetic Lifter	1
KL-0186-7090	Plastic Storage Case	1

#### Technical Data:

Maximum load capacity of the pull spindle:	5t
Nozzle needle removal tool (max. torque):	15 Nm
Nozzle needle removal tool (length):	150 mm
Screw tap:	7/16-20 UNF
Screw tap length:	240mm
Pull spindle (connection thread for extraction bridge):	M16x1.5
Pull spindle (connection thread for injector nozzle):	7/16-20 UNF
Pull spindle length:	480mm

## KL-0186-221 K (German Utility Model)

### Injector Seat Cleaning Tool, with Compressed Air Adaptors

**Compressed air adaptor M10x1 – universally suitable for M10x1 glow plug bores as found on: BMW, Mercedes, Chrysler, Opel/Vauxhall, Nissan, Renault etc.**

**Compressed air adaptor M8x1 – universally suitable for M8x1 glow plug bores as found on: Citroën, Fiat, Ford, Lancia, Mercedes, Opel/Vauxhall, Suzuki, Volvo etc.**

**Cleaning Tool - universally suitable for engines having an injector nozzle seat Ø of 17mm such as:**

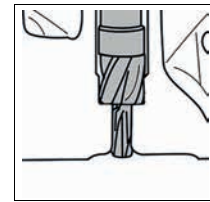
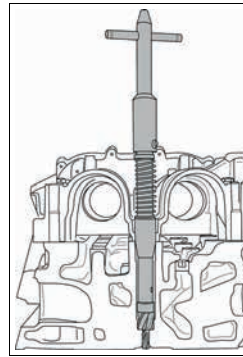
- Mercedes: OM611, OM612, OM613, OM640, OM642, OM646, OM646 EVO, OM647, OM648, OM668
- Peugeot: DT17, DT20, DV4, DV6, DW10, DW12
- Citroën: DV4
- Renault: F9Q, G9T, G9U, K9K
- BMW: M47, M47TU, M57, M57TU
- Opel/Vauxhall: Z13DT
- Ford: G8DA, G8DB, HHDA, HHJA, HHJB
- Volvo: D4164T
- Mazda: Y6
- Toyota: 2.2 (2AD-FTV) and 3.0 (1KD-FTV)
- Land Rover: Freelander TD4 (M47D)

The tool allows for the quick and professional cleaning of injector nozzle seats. This is an important operation to be carried out before installing/re-installing an injector in order to avoid leakage between cylinder head and injector nozzle. The spring-loaded centring cone sleeve ensures that the cleaning tool is accurately guided in the injector nozzle bore, thus enabling the seal seat to be cleaned properly and without any trouble. With the aid of the **KL-0369 55 B** or the **KL-1383-118** compressed air adaptor, which is screwed into the glow plug bore, compressed air can be injected into the combustion chamber so as to prevent impurities from entering the latter.

#### Scope of Delivery:

**KL-0186-221 K Injector Seat Cleaning Tool, with Compressed Air Adaptors**

Part No.	Description	Qty
KL-0186-50	Cleaning Tool (universal) for Injector Nozzle Seat	1
KL-0369-55 B	Compressed Air Adaptor for 10x1 Glow Plug Bore	1
KL-1383-118	Compressed Air Adaptor for M8x1 Glow Plug Bore	1
KL-1383-1329	Plastic Storage Case	1



#### Technical Data:

Drive:	T-handle
Length:	238mm
Cleaning tool Ø:	7.3/17mm
Connection thread:	M10x1
Length:	178mm
Tube Ø:	15x110mm
Connection thread:	M8x1
Length:	178mm
Tube Ø:	12x80mm

**Accessory:** Extension **KL-0186-501** for very deep-seated injector nozzles.

## KL-0186-50 B (German Utility Model)

### Cleaning Tool (Universal) for Injector Nozzle Seat

**Universally suitable for the VW-Audi, Seat, Škoda, Citroën, BMW, Ford, Land Rover, Mazda, Mercedes, Opel/Vauxhall, Peugeot, Renault, Toyota, Volvo Diesel engines having an injector nozzle seat Ø of 17mm.**

**(Engine codes: VW-Audi/Seat/Škoda: AXD, BAY, BLE, BNZ, BNM, BNV, BKC, BWF, BXE, BLS; Mercedes: OM611, OM612, OM613, OM640, OM642, OM646, OM646 EVO, OM647, OM648, OM668; Peugeot: DT17, DT20, DV4, DV6, DW10, DW12; Citroën: DV4; Renault: F9Q, G9T, G9U, K9K; BMW: M47, M47TU, M57, M57TU; Opel/Vauxhall: Z13DT; Ford: G8DA, G8DB, HHDA, HHJA, HHJB; Volvo: D4164T; Mazda: Y6; Toyota: 1ND-TV, 1CD-FTV, 1KD-FTV, 2AD-FHV, 2AD-FTV, 2KD-FTV H, 2KD-FTV L, W17D14 [1ND]; Land Rover: TD4, M47D)**

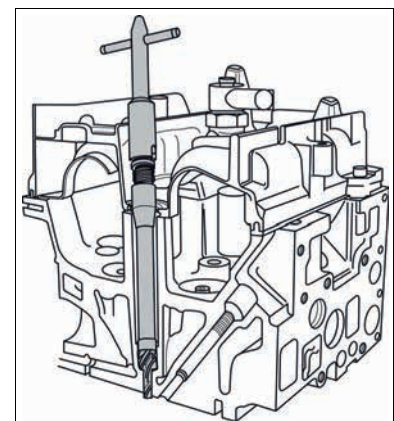
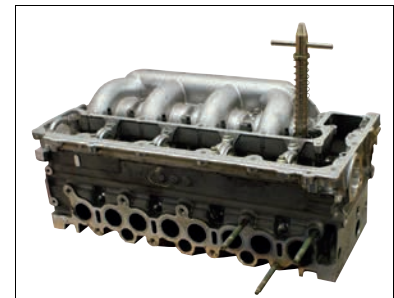
The tool allows for the quick and professional cleaning of injector nozzle seats. Before installing/re-installing an injector nozzle, it is absolutely necessary to clean the seal seat in order to avoid leakage between the cylinder head and injector nozzle. The spring-loaded centring cone sleeve ensures that the cleaning tool is accurately guided in the injector nozzle bore, thus enabling the seal seat to be cleaned properly and without any trouble.

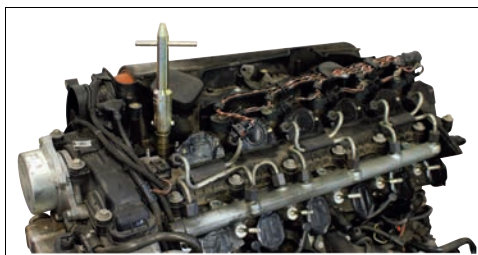
#### Technical Data:

Drive:	T-Handle
Length:	238mm
Cleaning tool Ø:	7.3/17mm

#### Accessory:

The drive extension **KL-0186-501** for extremely deep-seated injector nozzles is available as accessory.





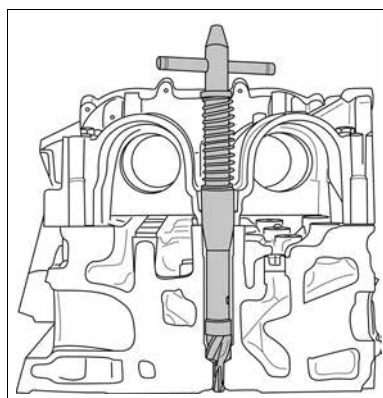
## KL-0186-501

### Extension (150mm)

The **KL-0186-501** extension is specially designed for very deep-seated injector nozzles. It is used in conjunction with the universal cleaning tool **KL-0186-50** or the **KL-0186-511**.

#### Technical Data:

Drive:	T-Handle
Length:	150mm



## KL-0186-52

### (German Utility Model)

### Cleaning Tool for Injector Nozzle Seat, VW

Universally suitable for the **VW-Audi, Seat, Škoda 2.0 TDI Pumpe-Düse (unit injector) engines having a conical injector nozzle seat  $\varnothing$  of 17mm, as found on VW: Caddy III, Eos, Golf Plus, Golf V, Golf VI Variant, Jetta, Passat, Passat Variant, Touran; Audi: A3; Seat: Altea, Leon, Toledo III; Škoda: Octavia, Superb. (Engine code: BMM)**

The cleaning tool enables the quick and professional cleaning of conical injector nozzle seats.

This is an indispensable working step before installing/re-installing an injector nozzle in order to avoid leakage between cylinder head and injector nozzle.

The spring-loaded centring cone sleeve ensures accurate guiding of the cleaning tool in the injector nozzle bore, thus enabling the seal seat to be cleaned properly and without any trouble.

#### Technical Data:

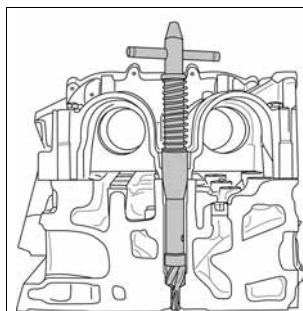
Drive:	T-Handle
Length:	238mm
Cleaning tool $\varnothing$ :	7.5/17mm

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#### Technical Data:

Drive:	T-Handle
Length:	238mm
Cleaning tool $\varnothing$ :	7.5/17mm



## KL-0186-53 K

### (German Utility Model)

### Cleaning Tool Set (Universal)

### for Injector Nozzle Seat

Universally suitable for the **VW-Audi, Seat, Škoda, Citroën, BMW, Ford, Land Rover, Mazda, Mercedes, Opel/Vauxhall, Peugeot, Renault, Toyota, Volvo Diesel engines having a plane injector nozzle seat  $\varnothing$  of 17mm; also suitable for use on the VW-Audi, Seat, Škoda 2.0 TDI Pumpe-Düse (unit injector) engines having a conical injector nozzle seat  $\varnothing$  of 17mm.**

(Engine codes: **VW-Audi/Seat/Škoda: AXD, BAY, BLE, BNZ, BNM, BMM, BNV, BKC, BWF, BXE, BLS; Mercedes: OM611, OM612, OM613, OM640, OM642, OM646, OM646 EVO, OM647, OM648, OM668; Peugeot: DT17, DT20, DV4, DV6, DW10, DW12; Citroën: DV4; Renault: F9Q, G9T, G9U, K9K; BMW: M47, M47TU, M57, M57TU; Opel/Vauxhall: Z13DT; Ford: G8DA, G8DB, HHDA, HHJA, HHJB; Volvo: D4164T; Mazda: Y6; Toyota: 2AD-FTV, 1KD-FTV; Land Rover: TD4, M47D)**

The cleaning tool set enables the quick and professional cleaning of both plane and conical injector nozzle seats. Proper and thorough cleaning is essential before installing/re-installing an injector nozzle in order to avoid leakage between cylinder head and injector nozzle. The spring-loaded centring cone sleeve ensures accurate guidance of the cleaning tool in the injector nozzle bore, thus enabling both the plane and the conical seal seat to be cleaned properly and without any trouble.

**Note:** The cleaning tool set includes the **KL-0186-52** cleaning tool.

#### Scope of Delivery: KL-0186-53 K Cleaning Tool Set (Universal)

Part No.	Description	Qty
KL-0186-50 B	Cleaning Tool for Injector Nozzle Seat	1
KL-0186-5202	Cleaning Head, $\varnothing$ 7.5/17 mm	1
KL-1383-1329	Plastic Storage Case	1

## KL-0583-102

### Cleaning Tool for Injector Nozzle Seat, BMW

Suitable for BMW Common-Rail Diesel engines M47TU, M57 and M57TU.

In a single machining operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seal seat and the small aperture leading to the combustion chamber. Indispensable procedure before re-installing an injection nozzle to avoid leakage between cylinder head and injection nozzle.



**Technical Data:**

Drive:	T-handle
Length:	296mm
Cleaning tool Ø:	7.5/17/23.7mm

## KL-0583-1031 A

### Cleaning Tool for Injector Nozzle Seat, BMW

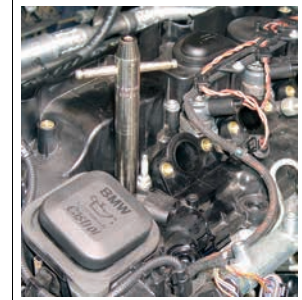
Suitable for the BMW M47 Common Rail Diesel engines.

In a single operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seal seat and the small aperture leading to the combustion chamber. This is important before installing/re-installing an injector nozzle in order to avoid leakage between cylinder head and injector nozzle. The **KL-0186-501** extension is specifically designed for very deep-seated injector nozzles.

**Note:** When using the **KL-0186-501** extension, the T-handle of the extension and the T-handle of cleaning tool **KL-0186-104** need to be interchanged.

**Scope of Delivery: KL-0583-1031 A Cleaning Tool for Injector Nozzle Seat, BMW**

Part No.	Description	Qty
KL-1383-104	Cleaning Tool for Injector Nozzle Seat	1
KL-0186-501	Extension	1



**Technical Data:**

Drive:	T-handle
Length of cleaning tool:	290mm
Length of cleaning tool with extension:	370mm
Cleaning tool Ø:	7.5/17mm

## KL-0369-20 A

### Cleaning Tool for Injector Nozzle Seat, Common Rail Diesel Engines

Applicable to Common Rail Diesel engines:

Mercedes OM611, OM612, OM613, OM639, OM640, OM642, OM646, OM647, OM648, OM651, OM668, Smart R660

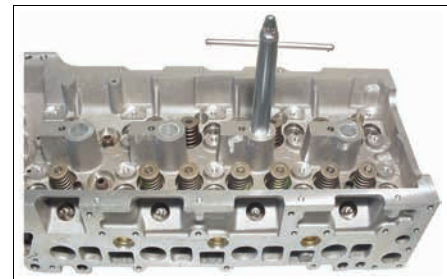
PSA 2.7 HDI / engine: DT17 and 3.0 HDI engine: DT20

Chrysler 2.5 crd / engine: OM664

Toyota 3.0 D-4D / engine: 1 KD-FTV; Toyota 2.2 D-4D / engine: 2 AD-FHV, 2 AD-FTV

Lexus 2.2 Diesel / engine: 2 AD-FHV

In a single operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seat, and the small aperture leading to the combustion chamber. Important procedure before reinstalling an injector nozzle in order to prevent leakage between the cylinder head and the injector.



**Technical Data:**

Drive:	T-Handle
Length:	261mm
Cleaning tool Ø:	7.5/17/19.1mm

## KL-0186-51

(German Utility Model)

### Cleaning Tool Set for Injector Nozzle Seat

Suitable for use on the Fiat 2.3 JTD, 2.8 JTD and 3.0 JTD Diesel engines with conical injector nozzle seat.

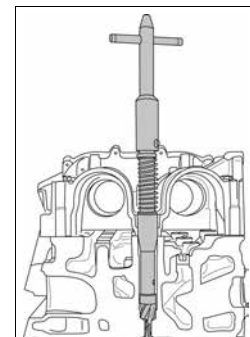
The cleaning tool enables the quick and professional cleaning of conical injector nozzle seats.

Indispensable working step before installing/re-installing an injector nozzle in order to avoid leakage between cylinder head and injector nozzle.

The spring-loaded centring cone sleeve ensures accurate guidance of the cleaning tool in the injector nozzle bore, thus enabling the seal seat to be cleaned properly and without any trouble.

**Scope of Delivery: KL-0186-51 Cleaning Tool Set for Injector Nozzle Seat**

Part No.	Description	Qty
KL-0186-511	Cleaning Tool for Injector Nozzle Seat	1
KL-0186-501	Extension	1



**Technical Data:**

Drive:	T-Handle
Length:	238mm
Cleaning tool Ø:	7.5/17mm



**Technical Data:**

Drive:	T-handle
Length:	261mm
Cleaning tool Ø:	7.5/17/17.6mm

## KL-1683-103

### Cleaning Tool for Injector Nozzle Seat

**Applicable to Common Rail Diesel engines on Opel/Vauxhall, Fiat, Lancia, Suzuki 1.3 JTD, 1.3 CDTi, 1.3 JTD, 1.3 DDIs / engine: Z13DT, 188A9.000.**

In a single machining operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seal seat and the small aperture leading to the combustion chamber.

Indispensable procedure before re-installing/installing an injection nozzle to avoid leakage between cylinder head and injector nozzle.



**Technical Data:**

Drive:	T-handle
Length:	245mm
Cleaning tool Ø:	7.5/17.4/19mm

## KL-1283-112

### Cleaning Tool for Injector Nozzle Seat, Renault/Nissan/Opel/Vauxhall/Suzuki/Mitsubishi

**Suitable for the Common Rail Diesel engines F9Q on Renault, Nissan, Opel/Vauxhall, Suzuki, Mitsubishi 1.9 dTi, 1.9 dCi, 1.9 CDTi, 1.9 Di, 1.9 DDIs, 1.9 Di-D.**

In a single machining operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seal seat and the small aperture leading to the combustion chamber. Indispensable procedure before re-installing an injection nozzle to avoid leakage between cylinder head and injection nozzle.



**Technical Data:**

Drive:	T-handle
Length:	265mm
Cleaning tool Ø:	7.5/17/20.1mm

## KL-1283-122

### Cleaning Tool for Injector Nozzle Seat, Renault/Suzuki/Nissan/Dacia

**Suitable for the Common Rail Diesel engines K9K on Renault, Suzuki, Nissan, Dacia 1.5 dCi, 1.5 DDIs.**

In a single machining operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seal seat and the small aperture leading to the combustion chamber. Indispensable procedure before re-installing an injection nozzle to avoid leakage between cylinder head and injection nozzle.

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**Technical Data:**

Drive:	T-Handle
Length:	261mm
Cleaning tool Ø:	7.5/17mm

## KL-1383-104

### Cleaning Tool for Injector Nozzle Seat, Peugeot/Citroën/Fiat/Lancia/Suzuki

**Applicable to 2.0 HDI, 2.0 JTD Common Rail Diesel engines on Peugeot, Citroën, Fiat, Lancia, Suzuki; engine code: DW10; Mercedes, engine code: OM646 EVO; Renault, Nissan, Vauxhall/Opel 2.2 DTI, CDTI, CDI, engine code: G9T; Renault, Nissan, Vauxhall/Opel 2.5 DTI, CDTI, CDI, engine code: G9U.**

The special design of this cleaning tool enables the injection nozzle bore, the seal seat and the injector channel to be cleaned in one single operation.

Important! Before any re-installation/installation of an injector, it is essential to clean the seal seat in the cylinder head from deposits such as carbon deposits in order to prevent leakage between cylinder head and injector.



**Technical Data:**

Drive:	T-handle
Length:	275mm
Cleaning tool Ø:	7.5/17/19.6mm

## KL-1383-119

### Cleaning Tool for Injector Nozzle Seat, Peugeot/Citroën/Fiat/Lancia

**Applicable to the 2.2 HDI, 2.2 JTD Common Rail Diesel engines DW12 on Peugeot, Citroën, Fiat, Lancia.**

In a single machining operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seal seat and the small aperture leading to the combustion chamber. Indispensable procedure before re-installing/installing an injector nozzle to avoid leakage between cylinder head and injector nozzle.

## KL-1383-1311

### Cleaning Tool for Injector Nozzle Seat, PSA 1.6

Applicable to 1.6 PSA Common Rail Diesel engines on:

- Fiat 1.6 HDI; engine code: DV6, 9HX, 9HY, 9HZ
- Ford 1.6 TDCi; engine code: G8DA, G8DB, HHDA, HHJA, HHJB
- Volvo 1.6 D; engine code: D4164T
- Mazda 1.6 D; engine code: Y6

In a single machining operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seal seat and the small aperture leading to the combustion chamber.

Indispensable procedure before re-installing/installing an injector nozzle to avoid leakage between cylinder head and injector nozzle.



**Technical Data:**

Drive:	T-handle
Length:	295mm
Cleaning tool-Ø:	7.5/17/17.6/18.7mm

## KL-1383-118

### Compressed Air Adaptor for M8x1 Glow Plug Bore

Universally applicable to Citroën, Fiat, Ford, Lancia, Mercedes, Opel/Vauxhall, Suzuki, Volvo etc., (Engine Codes: 169 A1.000, 188 A8.000, 188 A9.000, 199 A2.000, 199 A3.000, 199 A9.000, 199 B1.000, 199 B4.000, 223 A9.000, 263 A2.000, A13DTC, D13A, DT17, DT20, FD4, OM639, OM640, OM642, OM651, Y13DT, Z13DT, Z13DTH, Z13DTJ)

With the aid of the KL-1383-118 compressed air adaptor, which is screwed into the glow plug bore, compressed air can be injected into the combustion chamber so as to prevent impurities from entering the latter.



**Technical Data:**

Connection thread:	M8x1
Length:	178mm
Tube:	Ø 12x80mm

## KL-0369-55 B

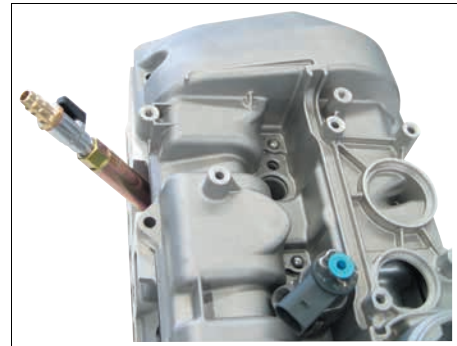
### Compressed Air Adaptor for Glow Plug Bore

Universally applicable to, e.g., BMW, Mercedes, Chrysler, Opel/Vauxhall, Nissan, Renault etc.

With the aid of the KL-0369-55 B compressed air adaptor, which is screwed into the glow plug bore, compressed air can be injected into the combustion chamber so as to prevent impurities from entering the latter.

**Technical Data:**

Thread:	M10x1
Length:	178mm
Pipe Ø:	15x110mm



## KL-0186-1631

### Compressed Air Adaptor for M10x1.25 Glow Plug Bore, Toyota/Lexus

Universally applicable to Diesel engines e.g. Opel/Vauxhall (A17DTJ, A17DTC, A17DTE, A17DTS); Toyota and Lexus (1ND-TV, 1CD-FTV, 1KD-FTV, 2AD-FHV, 2AD-FTV, 2KD-FTV H, 2KD-FTV L, W17D14 [1ND]) etc.

With the aid of the KL-0186-1631 compressed air adaptor, which is screwed into the glow plug bore, compressed air can be injected into the combustion chamber so as to prevent impurities from entering the latter.



**Technical Data:**

Connection Thread:	M10x1.25
Length:	207mm
Tube Ø:	15mm



## KL-0132-56 KA Glow Plug Tool Set (Universal)



**Universally applicable to Diesel engines having either an M8x1 or M10x1 glow plug retaining thread. The ideal tool set for Mercedes (OM639, OM640, OM642, OM651) // Fiat, Citroën, Peugeot, IVECO 2.3 JTD/HDI, 3.0 JTD/HDI, as well as Fiat, Alfa, Lancia 1.3 JTD Common Rail Diesel engines. (F1A, F1C, F30 DT, 169A1.000, 169A5.000, 188A8.000, 188A9.000, 199A2.000, 199A3.000, 199A9.000, 199B1.000, 199B2.000, 199B4.000, 223A9.000, 263A2.000) and VW-Audi 2.5, 2.7, 3.0 V6 TDI engines.**

The universal **KL-0132-56 KA** glow plug tool set enables the accurate removal, respectively drilling out, of damaged glow plugs and re-tapping the original M8x1 and M10x1 thread. It also allows the user to repair a damaged glow plug retaining thread by drilling it up to M10x1 or M12x1 respectively. Then, the new glow plug along with a threaded sleeve can be screwed into the cylinder head. With the aid of the compressed air adaptor included in the set, air can be injected into the combustion chamber so as to prevent dirt and swarf from entering the latter. Glow plugs or glow tubes/elements seized in the glow plug channel can be extracted quickly and easily with the aid of the puller that comes with the tool set.

### Scope of Delivery:

#### KL-0132-56 KA Glow Plug Tool Set (Universal)

Part No.	Description	Qty
<b>KL-0132-56 EA</b>	<b>Glow Plug Tool Set (Universal), in a Foam Insert</b>	<b>1</b>
KL-0132-5691	Plastic Storage Case	1

### Scope of Delivery: KL-0132-56 EA Glow Plug Tool Set (Universal), in a Foam Insert

Part No.	Description	Qty
KL-0369-201 A	Glow Plug Removal Tool, Mercedes	1
KL-0369-202	Glow Plug Removal Tool, M8x1	1
KL-0132-5502	Pilot Drill, Ø 7.1mm for M8x1	1
KL-0132-5503	Screw Tap, M8x1	1
KL-0283-7003	Guide Sleeve, Ø 13mm	1
KL-0132-5201	Guide Sleeve for Mercedes	1
KL-0132-5504	Guide Sleeve for Fiat JTD	1
KL-0132-5505	Guide Sleeve for Mercedes/Fiat	1
KL-1383-2234	Set of Threaded Sleeves, M8x1, 16mm long (10-piece)	1
KL-1383-2042	Set of Threaded Sleeves, M10x1, 26mm long (10-piece)	1
KL-0369-3023	Set of Threaded Sleeves, M10x1, 17mm long (10-piece)	1
KL-0283-7050	Puller (Base Tool)	1
KL-1383-2052	Puller Bolt, 1/4"-20 UNC, 185mm long	1
KL-1383-2242	Puller Bolt No. 12-24 UNC, 165mm long	1
KL-0369-2510 A	Holder, M8x1, with Set Screw	1
KL-0369-2512 A	Reamer, Ø 4.8mm	1
KL-0369-2522 A	Reamer, Ø 5.2mm	1
KL-0369-2610 A	Holder, M9x1, with Set Screw	1
KL-0369-2710 A	Holder, M10x1, with Set Screw	1
KL-0369-2732 A	Reamer, Ø 5.8mm	1
KL-0369-2740 A	Holder, M10x1 with Set Screw	1
KL-0369-2810 A	Holder, M10x1.25, with Set Screw	1
KL-0369-2910 A	Holder, M12x1.25, with Set Screw	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-1683-2061	Pilot Drill, Ø 9.1mm for M10x1	1
KL-1683-2062	Screw Tap, M10x1	1
KL-4007-2510	Adaptor for Power Drill, 3/8"	1
KL-1683-2063	Set of Threaded Sleeves, M8x1, 13mm long	1
KL-0369-306	Tool Holder, with Square Socket 2.4-5.5mm	1
KL-0369-9001	Glow Plug Socket with Joint, Size (waf) 8mm, long	1
KL-0369-9002	Glow Plug Socket with Joint, Size (waf) 9mm, long	1
KL-0369-9003	Glow Plug Socket with Joint, Size (waf) 10mm, long	1
KL-0369-9004	Glow Plug Socket with Joint, Size (waf) 12mm, long	1
KL-0369-9005	Glow Plug Socket with Joint, Size (waf) 14mm, long	1
KL-0369-9006	Glow Plug Socket with Joint, Size (waf) 16mm, long	1
KL-1383-2241	Screw Tap No. 12-24 UNC	1
KL-0369-3056	Screw Tap, 1/4"-20 UNC	1
KL-0049-100	Slide Hammer Puller Base Tool	1
KL-1683-2051	Pilot Drill, Ø 7.1mm for M8x1	1
KL-1683-2052	Screw Tap, M8x1	1
KL-0283-7031 A	Pilot Drill, Ø 11.1mm for M12x1	1
KL-0283-7032 A	Screw Tap, M12x1	1
KL-0132-5501	Puller Bolt No. 12-24 UNC, for Slide Hammer Puller	1
KL-0132-5202	Puller Bolt, ¼"-20 UNC, for Slide Hammer Puller	1
KL-0369-3052	Shoulder Nut	1
KL-0132-5692	Foam Insert	1

KL-0132-56 EA



## KL-0132-55 K Glow Plug Tool Set (Universal), M8x1

**Suitable for glow plug thread M8x1, e.g. on Mercedes OM639, OM640, OM642, OM651 and Fiat 1.3 JTD, 2.3 JTD, 3.0 JTD.**

The universal glow plug tool set **KL-0132-55 K** enables the quick and easy drilling out of damaged or broken-off glow plugs.

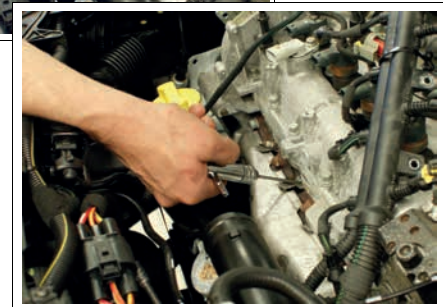
The glow plug, respectively the top part of the glow plug, is drilled out or drilled up with the aid of the pilot drill. Next, the original thread is recut and cleaned by means of the special screw tap. The residual glow plug body can then be extracted using the screw tap or a puller bolt in conjunction with a slide hammer puller such as the **KL-0049-100**.

The tool set also contains two special guide sleeves for Fiat JTD and Mercedes CDI engines. These sleeves ensure precise alignment and guidance as well as accurate drilling depth.

### Scope of Delivery:

#### KL-0132-55 K Glow Plug Tool Set (Universal), M8x1

Part-No.	Description	Qty
KL-0132-5501	Puller Bolt No. 12-24 UNC for Slide Hammer Puller	1
KL-0132-5502	Pilot Drill, Ø 7.1 mm, for M8x1	1
KL-0132-5503	Screw Tap M8x1	1
KL-0132-5504	Guide Sleeve for Fiat JTD	1
KL-0132-5505	Guide Sleeve for Mercedes	1
KL-0369-306	Tool Holder with Square Socket	1
KL-1383-2241	Screw Tap No.12-24 UNC	1
KL-4007-2510	Adaptor for Power Drill, 3/8"	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0132-5590	Plastic Storage Case	1



## KL-0132-61 K Glow Plug Tool Set (Universal), M9x1

**Universally suitable for use on the Alfa, Fiat, Lancia, Opel/Vauxhall and Saab 1.9 as well as 2.4 D/TiD/JTD/JTDM/CDTI Diesel engines having an M9x1 glow plug retaining thread.**

**For example, fitted to Alfa 147, 156, 159, 166, GT; Opel/Vauxhall Astra H, Astra V, Signum, Vectra C, Zafira; Saab 9-3; Fiat Croma, Stilo; Lancia Thesis etc.**

**(Engine codes: 192A5.000, 841G.000, 841H.000, 937A5.000, 939A2.000, 939A3.000, 939A8.000, Z19DTH, Z19DTJ)**

The universal **KL-0132-61 K** glow plug tool set enables the quick and easy drilling out of damaged or broken-off glow plugs.

The glow plug, respectively the glow plug top connector, is drilled out/drilled up with the aid of the pilot drill. Next, the original thread is re-tapped and cleaned with the special screw tap. Then, the remains of the glow plug can be removed using either the screw tap or the puller bolt in conjunction with a slide hammer puller such as **KL-0049-100**.





## KL-0132-52 K

### Glow Plug Tool Set (Universal), M10x1

**Suitable for use on M10x1 glow plug threads; e.g. as found in VW-Audi, Mercedes, Opel/Vauxhall, Peugeot, Renault etc.**

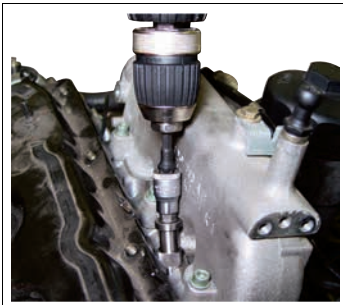
The universal glow plug tool set **KL-0132-52 K** enables the quick and easy drilling out of damaged or broken-off glow plugs.

The glow plug, respectively the glow plug top connector, is drilled out or drilled up with the aid of the pilot drill. Next, the original thread is recut and cleaned by means of the special tap. The residual glow plug body can then be extracted using the screw tap or a puller bolt in conjunction with a slide hammer puller such as **KL-0049-100**. The tool set also contains two special guide sleeves for VW Audi V6 TDI and Mercedes CDI engines. These sleeves ensure precise alignment and guidance as well as accurate drilling depth.

#### Scope of Delivery:

#### KL-0132-52 K Glow Plug Tool Set (Universal), M10x1

Part No.	Description	Qty
KL-4007-2510	Adaptor for Power Drill, 3/8", Square Socket	1
KL-0283-7003	Guide Sleeve, Ø 13mm	1
KL-0132-5201	Guide Sleeve, for Mercedes	1
KL-0283-7021	Pilot Drill, Ø 9.1mm for M10x1	1
KL-0283-7022	Screw Tap, M10x1	1
KL-0369-306	Tool Holder with Square Socket, 2.4-5.5mm	1
KL-0369-3056	Screw Tap, 1/4"-20 UNC, with Drill Bit	1
KL-0132-5202	Puller Bolt, 1/4"-20 UNC, for Slide Hammer Puller	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0132-5290	Plastic Storage Case	1



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## KL-0132-62 K

### Glow Plug Tool Set (Universal), M10x1.25

**Universally applicable to the Opel/Vauxhall, Mazda, Ford, Hyundai, Honda, Kia, Mini, Nissan and Toyota 1.4-3.0 D/DI/DTI/TD/CRDi/CDTi Diesel engines having an M10x1.25 glow plug retaining thread. For example, fitted to Opel/Vauxhall Astra G, Astra H, Combo, Corsa C, Meriva, Signum, Vectra C; Mazda 626 II, 626 III, 626 IV, MPV I, B-Series; Ford Ranger; Hyundai Accent, Getz, Matrix; Honda Civic VI; Kia Besta, Pregio, K2700; Mini One D; Nissan Serena, Terrano II, Vanette; Toyota Yaris, Corolla etc. (Engine codes: 1ND, 1ND-TV, 4EE-2, CD23, D4FA, LD23, MD25Ti, R2, RF OHC, RF46, RF-CX, RF-N, TD27T, WL, WL-T, Y17DT, Y17DTL, Y30DT, Z17DTL, Z30DT)**

The universal **KL-0132-62 K** glow plug tool set enables the quick and easy drilling out of damaged or broken-off glow plugs.

The glow plug, respectively the glow plug top connector, is drilled out/drilled up with the aid of the pilot drill. Next, the original thread is re-tapped and cleaned with the special screw tap. Then, the remains of the glow plug can be removed using either the screw tap or the puller bolt in conjunction with a slide hammer puller such as **KL 0049-100**.

## KL-0049-100

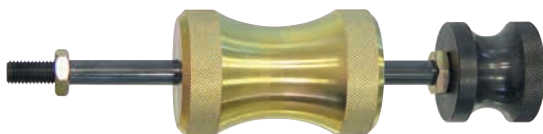
### Slide Hammer Puller (Base Tool)

This tool is designed to extract tight-fitting and seized components such as glow plugs, spindles etc. It is used in conjunction with the respective corresponding adaptors or puller bolts.

#### Scope of Delivery:

#### KL-0049-100 Slide Hammer Puller (Base Tool)

Part No.	Description	Qty
KL-0049-1503	Pull Rod	1
KL-0049-1012	Handle	1
KL-0049-1013	Hammer Weight	1
KL-0049-1003	Hex Nut, M10	2



## KL-0369-300 A Roller-Type Stud Removal Socket

The socket is used to twist the electrode top connector/protruding central electrode off the glow plug.

### Technical Data:

For electrode Ø:	2.5-4.5mm
Length:	70mm

### Accessories (on demand):

**1993 U-20** CODE:1436686 - Reversible Ratchet

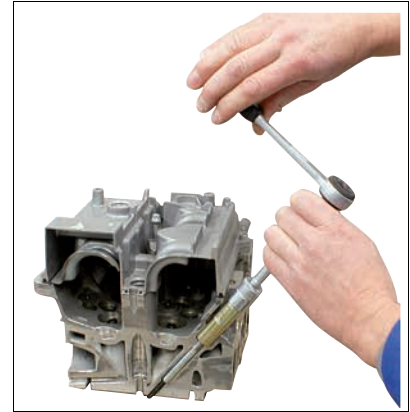


**DMK 100** CODE:2641232

**Torque Wrench Dremaster 20-100Nm**



**7 R - Combination Ratchet Spanner**



## KL-0283-70 K Glow Plug Tool Set, VW-Audi

Suitable for use on M10x1 glow plug threads as found in VW-Audi 2.5, 2.7 and 3.0 V6 TDI engines.

(Engine codes: AFB, AKE, AKN, AYM, BAU, BCZ, BDG, BDH, BFC, BPP, BSG, ASB, BKN, BKS, BMK, BNG, BUN, BUG)

The **KL-0283-70 K** glow plug tool set is designed for the quick, accurate and professional drilling out of damaged or torn-off glow plugs. Set also includes tools for recutting, cleaning and the repair of glow plug retaining threads as well as for the cleaning of glow plug bores.

First, the glow plug top part is drilled out or drilled up by means of the pilot drill. Next, the original thread is recut and cleaned using the special screw tap. If glow plug retaining threads are damaged, these can be drilled up to M12x1 with the aid of the special oversize screw tap.

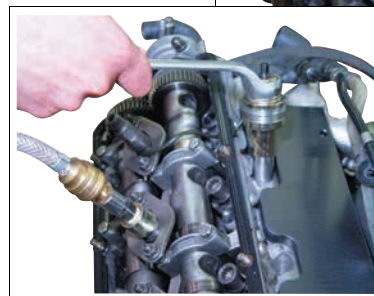
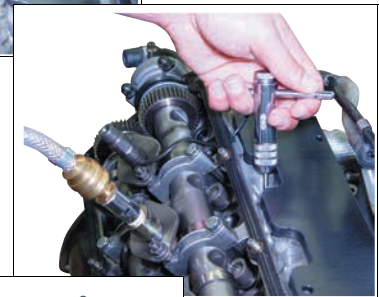
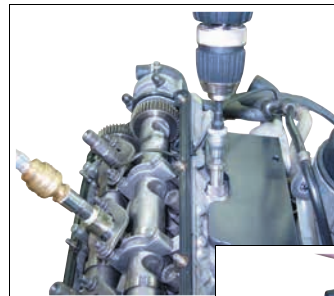
The centring/guide sleeves included in this tool set, ensure accurate and correct centring and guidance as well as the exact drilling depth whilst drilling out and during the thread repair. The remaining glow plug body is then extracted with the puller.

Finally the glow plug bore hole, the seal seat and the small aperture leading to the combustion chamber can be cleaned with the reamer.

### Scope of Delivery:

#### KL-0283-70 K Glow Plug Tool Set, VW-Audi

Part No.	Description	Qty
KL-0283-7001	Cover Plate	1
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-0283-7002	Guide Sleeve, Ø 13mm, long	1
KL-4007-2510	Adaptor for Power Drill, 3/8", Square Socket	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare)	1
KL-0283-7003	Guide Sleeve, Ø 13mm	1
KL-0283-7021	Pilot Drill, Ø 9.1mm for M10x1	1
KL-0283-7022	Screw Tap, M10x1	1
KL-0283-704	Compressed Air Adaptor for Injection Nozzle Bore	1
KL-0369-306	Tool Holder with Square Socket, 2.4-5.5mm	1
KL-0283-705	Puller Tool for Glow Plug Body	1
KL-0283-7061	Cleaning Tool (long)	1
KL-0283-7062	Cleaning Tool (short)	1
KL-0283-7063	Guide Sleeve for Cleaning Tool	1
KL-0283-7031	Pilot Drill, Ø 11.1mm for M12x1	1
KL-0283-7032	Screw Tap, M12x1	1
KL-0369-3023	Set of Threaded Sleeves, M10x1, 17mm long (10-piece)	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0283-7090	Plastic Storage Case	1





## KL-0283-70-1 K

### Upgrade Kit (TDI) for KL-0369-30 K (to form KL-0283-70 K), VW-Audi

The KL-0283-70-1 K tool kit is designed to upgrade the KL-0369-30 K glow plug tool set so that this also covers the VW-Audi V6 TDI engines.

#### Scope of Delivery: KL-0283-70-1 K Upgrade Kit (TDI)

Part No.	Description	Qty
KL-0283-7001	Cover Plate	1
KL-0283-7002	Guide Sleeve, Ø 13mm, long	1
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare)	1
KL-0283-7003	Guide Sleeve, Ø 13mm	1
KL-0283-704	Compressed Air Adaptor for Injector Nozzle Bore	1
KL-0283-7050	Puller (Base Tool)	1
KL-0283-7052	Support Sleeve	1
KL-0283-7061	Cleaning Tool (long design)	1
KL-0283-7062	Cleaning Tool (short design)	1
KL-0283-7063	Guide Sleeve for Cleaning Tool	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0283-7090	Plastic Storage Case	1



## KL-0369-34 KA

### Glow Plug Tool Upgrade Kit, Mercedes

Applicable to Mercedes CDI engines with either M8x1 or M10x1 glow plug retaining threads. (Engine codes: OM611, OM612, OM613, OM640, OM642, OM646, OM646 EVO, OM647, OM648, OM668)

The KL-0369-34 KA upgrade kit is used in conjunction with the universal glow plug tool set KL-0132-56 KA, thus, allowing for the accurate removal, respectively drilling out, of damaged glow plugs and re-tapping the original M8x1 and M10x1 thread. It also allows the user to repair a damaged glow plug retaining thread by drilling it up to M10x1 or M12x1 respectively.

Then, the new glow plug along with a threaded sleeve can be screwed into the cylinder head. With the aid of the compressed air adaptor included in the set, air is injected into the combustion chamber so as to prevent dirt and swarf from entering the latter.

With the aid of the puller that comes with the KL-0132-56?KA tool set, glow plugs or glow tubes/elements that are stuck/seized in the glow plug channel can be pulled out quickly and with ease.

#### Scope of Delivery:

#### KL-0369-34 KA Glow Plug Tool Upgrade Kit, Mercedes

Part No.	Description	Qty
KL-0369-34 EA	Glow Plug Tool Upgrade Kit, Mercedes, in a Foam Insert	1
KL-0132-5691	Plastic Storage Case	1



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#### Scope of Delivery: KL-0369-34 EA Glow Plug Tool Upgrade Kit, Mercedes, in an Foam Insert

Part No.	Description	Qty
KL-0369-3071	Guide Sleeve, Ø 17x75mm	1
KL-0369-3072	Guide Sleeve, Ø 17x60mm	1
KL-0369-3073	Guide Sleeve, Ø 17x41mm	1
KL-0369-3081	Retaining Sleeve for Ø 17mm	1
KL-0369-3171	Guide Sleeve, Ø 13x75mm	1
KL-0369-3172	Guide Sleeve, Ø 13x60mm	1
KL-0369-3173	Guide Sleeve, Ø 13x12mm	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3311	Base Plate	1
KL-0369-3312	Special Screw, M7	3
KL-0369-3313	Setting Bolt	1
KL-0369-3321	Guide Sleeve for Milling Cutter	1
KL-0369-3331	Guide Sleeve for Drill	1
KL-0369-56 B	Compressed Air Adaptor, M10x1	1
KL-0369-3361	Guide Sleeve for Reamer	1
KL-0369-3362	Reamer, Ø 7/4.8mm	1
KL-0369-3341	Guide Sleeve for Puller	1
KL-0369-3221	Base Plate with Inclined Bore	1
KL-0369-3222	Special Nut	3
KL-0369-3231	Guide Sleeve for Drill	1
KL-0369-3241	Reamer, Ø 5.8mm	1
KL-0369-3242	Guide Sleeve for Reamer, Ø 5.8mm	1
KL-0369-3013	Guide Sleeve for Drill	1
KL-0369-3014	Centring Sleeve	1
KL-0369-3031 A	Base Body	1
KL-0369-3041	Guide Sleeve for Reamer	1
KL-0369-3042 A	Reamer	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode	1
KL-0369-3492	Foam Insert	1

## KL-0369-30 K Glow Plug Tool Set, Mercedes CDI

**Suitable for use on the Mercedes CDI engines OM611, OM612, OM613, OM646, OM646 EVO, OM647 and OM648 etc.**

Designed for the accurate and professional removal of seized glow plugs without removing the cylinder head from the vehicle.

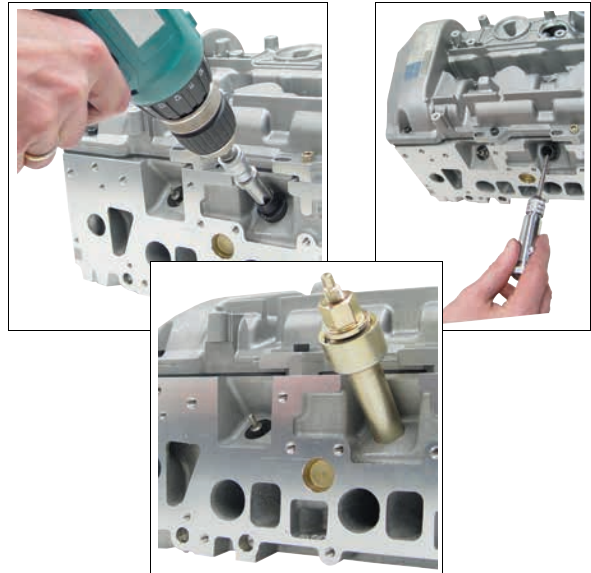
The **KL-0369-30 K** glow plug tool set enables the accurate removal respectively drilling out of damaged glow plugs, as well as re-tapping the original M10x1 thread. It also allows the user to repair a damaged glow plug retaining thread M10x1 by drilling it up to M12x1. Then, the new glow plug along with a threaded sleeve (M12x1 to M10x1) can be screwed into the cylinder head.

Glow plugs or glow tubes/elements seized in the glow plug channel can properly be extracted with the aid of the puller that comes with the tool set.

### Scope of Delivery:

#### KL-0369-30 K Glow Plug Tool Set, Mercedes CDI

Part No.	Description	Qty
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-0283-7021	Pilot Drill, Ø 9.1mm for M10x1	1
KL-0283-7022	Screw Tap, M10x1	1
KL-0283-7031	Pilot Drill, Ø 11.1mm for M12x1	1
KL-0283-7032	Screw Tap, M12x1	1
KL-0369-3023	Set of Threaded Sleeves, M10x1, 17mm long (10-piece)	1
KL-0369-3013	Guide Sleeve for Drill	1
KL-0369-3014	Centring Sleeve	1
KL-0369-303	Installation/Removal Tool for Centring Sleeve	1
KL-0369-3041	Guide Sleeve for Cleaning Tool	1
KL-0369-3042 A	Cleaning Tool	1
KL-0369-305	Puller for Glow Plug Body	1
KL-0369-2013	Collet Chuck	1
KL-0369-306	Tool Holder with Square Socket, 2.4-5.5mm	1
KL-0369-56 B	Compressed Air Adaptor, M10x1	1
KL-4007-2510	Adaptor for Power Drill, 3/8", Square Socket	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3090	Plastic Storage Case	1



## KL-0369-31 K Glow Plug Tool Set, CDI

**Suitable for use on the Mercedes CDI engines OM611, OM612, OM613, OM646, OM646 EVO, OM647 and OM648 etc.**

Designed for the accurate and professional removal of seized glow plugs without removing the cylinder head from the vehicle.

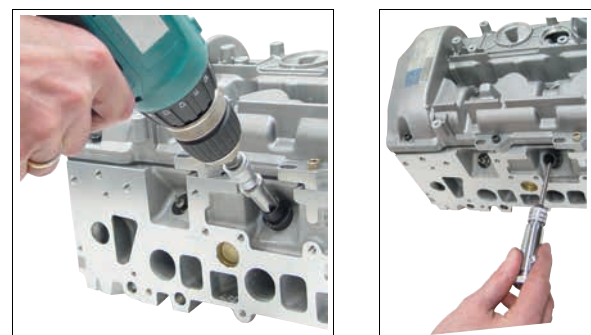
The glow plug tool set **KL-0369-31 K** enables the accurate removal/drilling out of damaged glow plugs as well as recutting the original M10x1 thread.

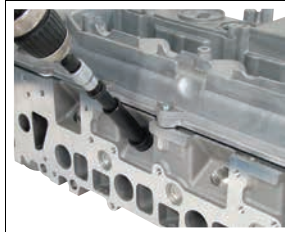
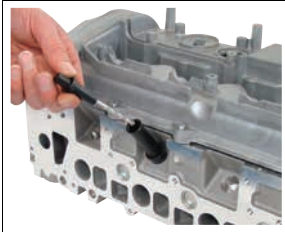
Glow plugs or glow plug elements seized in the glow plug channel can be extracted with the aid of the puller included in the tool set.

### Scope of Delivery:

#### KL-0369-31 K Glow Plug Tool Set, CDI

Part No.	Description	Qty
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-0283-7021	Pilot Drill, Ø 9.1mm for M10x1 thread	1
KL-0283-7022	Screw Tap, M10x1	1
KL-0369-3013	Guide Sleeve for Drill	1
KL-0369-3014	Centring Sleeve	1
KL-0369-303	Mounting/Dismounting Tool for Centring Sleeve	1
KL-0369-3041	Guide Sleeve for Cleaning Tool	1
KL-0369-3042 A	Cleaning Tool	1
KL-0369-305	Puller for Glow Plug Body	1
KL-0369-306	Tool Holder with Square Socket, 2.4-5.5mm	1
KL-4007-2510	Adaptor for Power Drill, 3/8" Square Socket	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3090	Plastic Storage Case	1





## KL-0369-307 K

### Milling Cutter Kit for Glow Plug Electrode, Mercedes

Suitable for use on Mercedes CDI engines **OM611, OM612, OM613, OM646, OM646 EVO, OM647 and OM648.**

This kit complements our glow plug tool sets **KL-0369-30 K** and **KL-0369-31 K**. The milling cutter is used in conjunction with our **KL-0369-30 K/KL-0369-31 K** tool sets, thus allowing for the professional milling off of the centre electrode from torn-off glow plugs.

#### Scope of Delivery: KL-0369-307 K Milling Cutter Kit for Glow Plug Electrode

Part No.	Description	Qty
KL-0369-3071	Guide Sleeve, Ø 17x75mm	1
KL-0369-3072	Guide Sleeve, Ø 17x60mm	1
KL-0369-3073	Guide Sleeve, Ø 17x41mm	1
KL-0369-3031 A	Base Body, 75mm long	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3079	Plastic Storage Case	1

## KL-0369-317 K

### Milling Cutter Kit for Glow Plug Electrode, Mercedes

Suitable for use on Mercedes CDI engines with an **M8x1** or **M10x1** glow plug retaining thread, e.g.: **OM611, OM612, OM613, OM639, OM640, OM642, OM646, OM646 EVO, OM647, OM648, OM651 and OM668.**

Once the top connector has been separated from the glow plug with the aid of the **KL-0369-300** roller-type stud removal socket (included in tool sets **KL-0369-30K / KL-0369-31 K**), the remaining centre electrode can be milled off with the **KL-0369-317 K** milling cutter.

The residual glow plug tube with heating element can then be removed/drilled out using the **KL-0369-30 K / -31 K** tool set (with OM611, OM612, OM613, OM646, OM646 EVO, OM647, OM648), the **KL-0369-32 K** tool set (with OM668) or the **KL-0132-55 K** tool set (with OM639, OM640, OM642, OM651).

#### Scope of Delivery: KL-0369-317 K Milling Cutter Kit for Glow Plug Electrode

Part No.	Description	Qty
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-0369-3071	Guide Sleeve, Ø 17x75mm	1
KL-0369-3072	Guide Sleeve, Ø 17x60mm	1
KL-0369-3073	Guide Sleeve, Ø 17x41mm	1
KL-0369-3081	Retaining Sleeve for Ø 17mm	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3171	Guide Sleeve, Ø 13x75mm	1
KL-0369-3172	Guide Sleeve, Ø 13x60mm	1
KL-0369-3173	Guide Sleeve, Ø 13x12mm	1
KL-0369-3031 A	Base Body, 75mm long	1
KL-0369-3079 A	Plastic Storage Case	1



#### Technical Data:

Weight:	0.6kg
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#### Technical Data:

Length:	240mm
Weight:	290g

## KL-0369-56 B

### Compressed Air Adaptor, M10x1

Suitable for use on Mercedes CDI engines: **OM611, OM612, OM613, OM646, OM646 EVO, OM647, OM648 etc.**

With the aid of this adaptor, compressed air can be injected into the combustion chamber so as to prevent impurities from entering the latter (piston of the cylinder to be repaired on TDC position, valves are closed).

The tool is needed when drilling out broken off glow plugs or when repairing glow plug retaining threads.

The built-in control valve ensures the correct supply of compressed air.

## KL-0369-30-1 K

### Upgrade Kit (CDI) for KL-0369-32 K (to form KL-0369-30 K), Mercedes

The KL-0369-30-1 K tool kit upgrades the KL-0369-32 K glow plug tool set by making it also suitable for use on the Mercedes CDI engines OM 611, 612, 613, 646, 646 EVO, 647, 648 etc.

**Scope of Delivery:**

**KL-0369-30-1 K Upgrade kit (CDI) for KL-0369-32 K ( to form KL-0369-30 K)**

Part No.	Description	Qty
KL-0369-3013	Guide Sleeve for Drill	1
KL-0369-3014	Centring Sleeve	1
KL-0369-303	Installation/Removal Tool for Centring Sleeve	1
KL-0369-3041	Guide Sleeve for Cleaning Tool	1
KL-0369-3042 A	Cleaning Tool	1
KL-0369-2013	Collet Chuck	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3090	Plastic Storage Case	1



## KL-0369-30-2 K

### Upgrade Kit (CDI) for KL-0369-33 K (to form KL-0369-30 K), Mercedes

The KL-0369-30-2 K tool kit upgrades the KL-0369-33 K glow plug tool set by making it also suitable for use on the Mercedes CDI engines OM 611, 612, 613, 646, 646 EVO, 647 and 648 etc.

**Scope of Delivery:**

**KL-0369-30-2 K Upgrade Kit (CDI) for KL-0369-33 K (to form KL-0369-30 K)**

Part No.	Description	Qty
KL-0369-3013	Guide Sleeve for Drill	1
KL-0369-3014	Centring Sleeve	1
KL-0283-7031	Pilot Drill, Ø 11.1mm for M12x1	1
KL-0283-7032	Screw Tap, M12x1	1
KL-0369-3023	Set of Threaded Sleeves, M10x1, 17mm long (10-piece)	1
KL-0369-303	Installation/Removal Tool for Centring Sleeve	1
KL-0369-3041	Guide Sleeve for Cleaning Tool	1
KL-0369-3042 A	Cleaning Tool	1
KL-0369-2013	Collet Chuck	1
KL-0369-305	Puller for Glow Plug Body	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3090	Plastic Storage Case	1



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## KL-0369-30-3 K

### Upgrade Kit (CDI) for KL-0283-70 K (to form KL-0369-30 K), Mercedes

The KL-0369-30-3 K tool kit upgrades the KL-0283-70 K glow plug tool set by making it also suitable for use on the Mercedes CDI engines OM 611, 612, 613, 646, 646 EVO, 647 and 648 etc.

**Scope of Delivery:**

**KL-0369-30-3 K Upgrade Kit (CDI) for KL-0283-70 K (to form KL-0369-30 K)**

Part No.	Description	Qty
KL-0369-56 B	Compressed Air Adaptor, M10x1	1
KL-0369-3013	Guide Sleeve for Drill	1
KL-0369-3014	Centring Sleeve	1
KL-0369-303	Installation/Removal Tool for Centring Sleeve	1
KL-0369-3041	Guide Sleeve for Cleaning Tool	1
KL-0369-3042 A	Cleaning Tool	1
KL-0369-2013	Collet Chuck	1
KL-0369-3050	Puller (Base Tool)	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3090	Plastic Storage Case	1







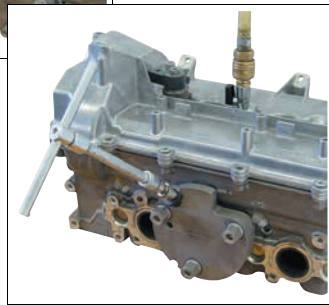
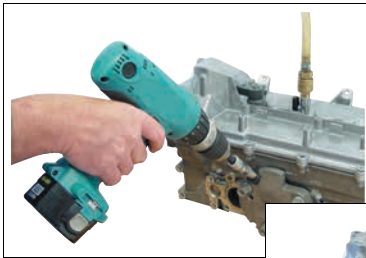
## KL-0369-32 K

### Glow Plug Tool Set, Mercedes CDI

**Suitable for use on Mercedes CDI engines OM668 as found in A-Class.**

Designed for the professional removal of seized, corroded or broken-off glow plugs. The kit also includes all the necessary tools to repair glow plug retaining threads without the need for removing the cylinder head from the vehicle.

The **KL-0369-32 K** glow plug tool set enables broken-off glow plugs to be drilled out accurately and the original M10x1 internal thread to be recut. It also allows the user to repair a damaged M10x1 glow plug retaining thread by drilling it up to M12x1. The new glow plug along with a threaded sleeve (M12x1 to M10x1) can then be screwed into the cylinder head.



#### Scope of Delivery:

#### KL-0369-32 K Glow Plug Tool Set, Mercedes CDI

Part No.	Description	Qty
KL-0369-56 B	Compressed Air Adaptor, M10x1	1
KL-0369-322	Base Plate with Nuts	1
KL-0369-3231	Guide Sleeve for Drill	1
KL-0283-7021	Pilot Drill, Ø 9.1mm for M10x1	1
KL-0283-7022	Screw Tap, M10x1	1
KL-0283-7031	Pilot Drill, Ø 11.1mm for M12x1	1
KL-0283-7032	Screw Tap, M12x1	1
KL-0369-3023	Set of Threaded Sleeves, M10x1, 17mm long (10-piece)	1
KL-0369-305	Puller for Glow Plug Body	1
KL-0369-306	Tool Holder with Square Socket, 2.4-5.5mm	1
KL-0369-324	Cleaning Tool Kit for Glow Plug Channel	1
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-4007-2510	Adaptor for Power Drill, 3/8", Square socket	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3290	Plastic Storage Case	1

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## KL-0369-320 K

### Glow Plug Tool Set, Mercedes A-Class

**Suitable for use on Mercedes CDI engines OM668 as found in A-Class etc.**

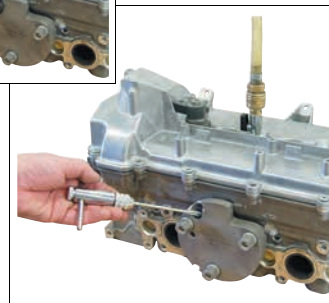
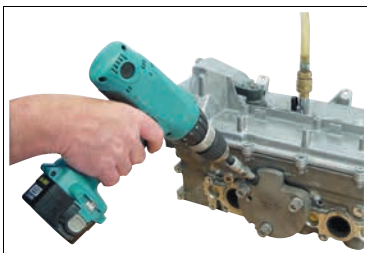
Indispensable for the accurate and professional removal of seized or broken-off glow plugs without the need to remove the cylinder head from the vehicle.

The glow plug tool set **KL-0369-320 K** enables the accurate drilling out of broken glow plugs as well as recutting and cleaning the original M10x1 thread. Glow plugs or glow plug bodies seized in the glow plug channel can be extracted with the puller that comes with the tool set.

#### Scope of Delivery:

#### KL-0369-320 K Glow Plug Tool Set, Mercedes A-Class

Part No.	Description	Qty
KL-0369-322	Base Plate with Nuts	1
KL-0369-3231	Guide Sleeve for Drill	1
KL-0283-7021	Pilot Drill, Ø 9.1mm for M10x1 thread	1
KL-0283-7022	Screw Tap, M10x1	1
KL-0369-305	Puller for Glow Plug Body	1
KL-0369-306	Tool Holder with Square Socket, 2.4-5.5mm	1
KL-0369-324	Cleaning Tool Kit for Glow Plug Channel	1
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-4007-2510	Adaptor for Power Drill, 3/8", square socket	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3290	Plastic Storage Case	1



## KL-0369-308 K

### Milling Cutter Kit for Glow Plug Electrode, Mercedes

Suitable for use on the following Diesel engines: Mercedes A-Class 1.7 CDI, Fiat Ducato 2.3/3.0 JTD, Peugeot Boxer III 3.0 HDI, Citroën Relay/Jumper III 3.0 HDI and Iveco Daily 2.3/3.0 JTD.

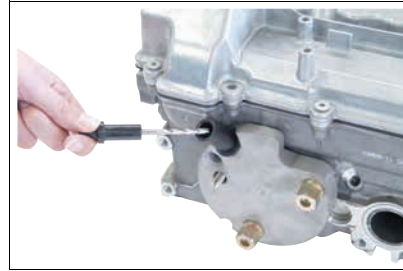
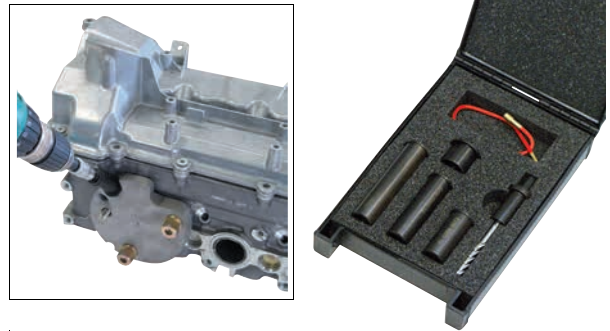
(Engine codes: OM668, F1AE 0481, F1CE 0481, F1CE 3481, F30DTE)

The milling cutter kit complements our KL-0369-32 K glow plug tool set. The tool is designed to mill off the centre electrode from torn-off glow plugs. It is used in conjunction with the glow plug tool set KL-0369-32 K.

**Scope of Delivery:**

**KL-0369-308 K Milling Cutter Kit for Glow Plug Electrode, Mercedes**

Part No.	Description	Qty
KL-0369-3071	Guide Sleeve, Ø 17x76mm	1
KL-0369-3072	Guide Sleeve, Ø 17x60mm	1
KL-0369-3073	Guide Sleeve, Ø 17x41mm	1
KL-0369-3081	Retaining Sleeve for Ø 17mm	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3079	Plastic Storage Case	1



## KL-0369-32-1 K

### Upgrade Kit (CDI) for KL-0369-30 K

The KL-0369-32-1 K tool kit upgrades the KL-0369-30 K glow plug tool set by making it also suitable for use on CDI engines OM668 as found in Mercedes A-Class-etc.

**Scope of Delivery:**

**KL-0369-32-1 K Upgrade Kit (CDI) for KL-0369-30 K**

Part No.	Description	Qty
KL-0369-322	Base Plate with Nuts	1
KL-0369-3231	Guide Sleeve for Drill	1
KL-0369-3241	Reamer, Ø 5.8mm	1
KL-0369-3242	Guide Sleeve for Reamer, Ø 5.8mm	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3290	Plastic Storage Case	1



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## KL-0369-32-2 K

### Upgrade Kit (CDI) for KL-0369-33 K (to form KL-0369-32 K)

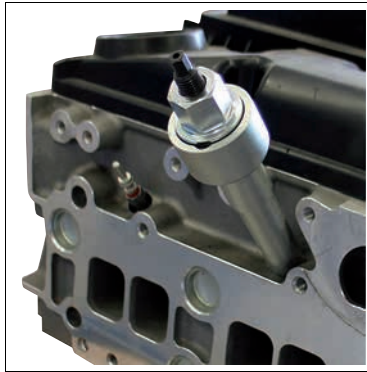
The KL-0369-32-2 K tool kit upgrades the KL-0369-33 K glow plug tool set by making it also suitable for use on CDI engines OM668 as found in Mercedes A-Class-etc.

**Scope of Delivery:**

**KL-0369-32-2 K Upgrade Kit (CDI) for KL-0369-33 K (to form KL-0369-32 K)**

Part No.	Description	Qty
KL-0369-322	Base Plate with Nuts	1
KL-0369-3231	Guide Sleeve for Drill	1
KL-0283-7031	Pilot Drill, Ø 11.1mm for M12x1	1
KL-0283-7032	Screw Tap, M12x1	1
KL-0369-3023	Set of Threaded Sleeves, M10x1, 17mm long (10-piece)	1
KL-0369-305	Puller for Glow Plug Body	1
KL-0369-3241	Reamer, Ø 5.8mm	1
KL-0369-3242	Guide Sleeve for Reamer, Ø 5.8mm	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3290	Plastic Storage Case	1





## KL-0369-202

### Glow Plug Removal Tool, M8x1

Universally applicable to Diesel engines having an M8x1 glow plug retaining thread and a glow plug size of 8mm waf.

Particularly useful, for example, on Mercedes: OM642, OM651, OM640; Fiat / Lancia / Opel/Vauxhall 1.3 JTD / CDTi; PSA: 2.2 (DW12), 1.4 (DV4 8V), 1.6 (DV6 8V + 16V), 2.7 (DT17) and VW 2.5 TDI.

The tool is designed for pulling out glow plugs that have been unscrewed, but are still stuck in their bore hole in the cylinder head.

#### Technical Data:

Drive:	waf 19/6mm
Length:	135mm



## KL-0369-33 K

### Glow Plug Tool Set, M8x1, Mercedes

Suitable for use on Mercedes CDI Diesel engines OM640 and OM642 with M8x1 glow plug thread.

The KL-0369-33 K glow plug tool set allows for the quick, accurate and professional drilling out of damaged or snapped-off glow plugs. The set also includes tools for the recutting, cleaning and repair of glow plug retaining threads as well as for the cleaning of glow plug bores.

First, the glow plug/top connector is drilled out/drilled up by means of the pilot drill. Next, the original thread is recut with the aid of the screw tap and cleaned. If glow plug retaining threads are damaged, these can be drilled up to M10x1 using the special re-bore tap.

The use of the centring/guide sleeves in conjunction with the base plate ensures accurate and correct centring and guidance as well as the exact drilling depth when drilling out/repairing the thread. The remainder of the glow plug can be extracted with the puller.

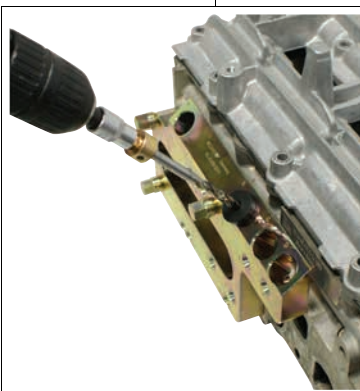
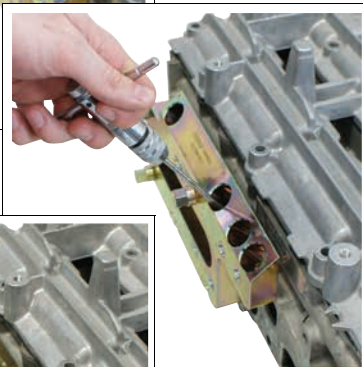
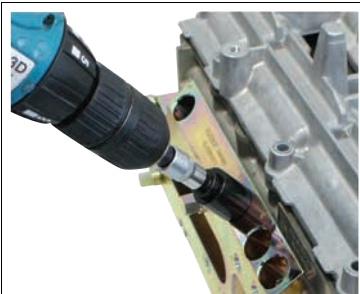
Finally, the glow plug bore, the sealed seat, and the glow plug channel (the small aperture leading to the combustion chamber) are cleaned with the cleaning tool.

#### Scope of Delivery:

##### KL-0369-33 K Glow Plug Tool Set, M8x1, Mercedes

Part No.	Description	Qty
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-0369-3311	Base Plate	1
KL-0369-3312	Special Screw, M7	3
KL-0369-3313	Setting Bolt	1
KL-0369-3321	Guide Sleeve for Milling Cutter	1
KL-4007-2510	Adaptor for Power Drill, 3/8", square socket	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare Milling Cutter)	1
KL-0369-3331	Guide Sleeve for Drill	1
KL-1383-2231	Pilot Drill, Ø 7.1mm for M8x1	1
KL-1383-2232	Screw Tap, M8x1	1
KL-0283-7021	Pilot Drill, Ø 9.1mm for M10x1	1
KL-0283-7022	Screw Tap, M10x1	1
KL-1383-2234	Set of Threaded Sleeves M8x1, 16mm long (10 units)	1
KL-0369-306	Tool Holder with Square Socket, 2.4-5.5mm	1
KL-0369-334	Puller for Glow Plug Body	1
KL-0369-56 B	Compressed Air Adaptor, M10x1	1
KL-0369-3361	Guide Sleeve for Cleaning Tool	1
KL-0369-3362	Cleaning Tool, Ø 7/4.8mm	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3390	Plastic Storage Case	1

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## KL-0369-330 K Glow Plug Tool Set, M8x1, Mercedes

**Suitable for use on Mercedes CDI Diesel engines OM640 and OM642 with M8x1 glow plug thread.**

The glow plug tool set **KL-0369-330 K** enables the quick, accurate and professional drilling out of damaged or snapped-off glow plugs. The set also includes tools for recutting and cleaning glow plug retaining threads as well as for the cleaning of glow plug bores.

First, the glow plug/top connector is drilled out/drilled up by means of the pilot drill. Next, the original thread is recut with the aid of the screw tap and cleaned.

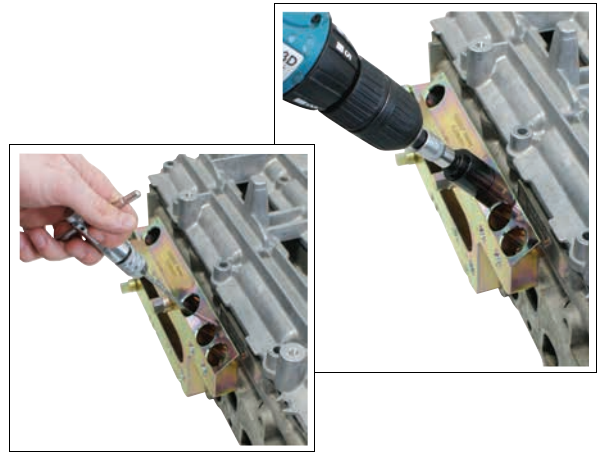
The use of the centring/guide sleeves in conjunction with the base plate ensures accurate and correct centring and guidance as well as the exact drilling depth when drilling out/repairing the thread. The remainder of the glow plug can be extracted with the puller.

Then, the glow plug bore, the sealed seat, and the glow plug channel (the small aperture leading to the combustion chamber) are cleaned with the cleaning tool.

### Scope of Delivery:

#### KL-0369-330 K Glow Plug Tool Set, M8x1, Mercedes

Part No.	Description	Qty
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-0369-331	Base Tool	1
KL-0369-3321	Guide Sleeve for Milling Cutter	1
KL-4007-2510	Adaptor for Power Drill, 3/8", Square Socket	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare)	1
KL-0369-3331	Guide Sleeve for Drill	1
KL-1383-2231	Pilot Drill, Ø 7.1 mm for M8x1	1
KL-1383-2232	Screw Tap, M8x1	1
KL-0369-306	Tool Holder with Square Socket, 2.4-5.5mm	1
KL-0369-334	Puller for Glow Plug Body	1
KL-0369-3361	Guide Sleeve for Cleaning Tool	1
KL-0369-3362	Cleaning Tool, Ø 7/4.8mm	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3390	Plastic Storage Case	1



## KL-0369-33-1 K Upgrade Kit (CDI) for KL-0369-30 K/ KL-0369-32 K

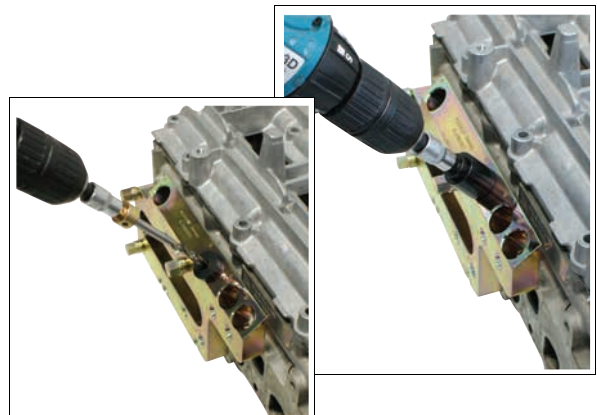
**Applicable to Mercedes CDI Diesel engines OM640 and OM642 with M8x1 glow plug thread.**

The **KL-0369-33-1 K** upgrade kit is designed to complement our glow plug tool sets **KL-0369-30 K** and **KL-0369-32 K** making these suitable for use also on Mercedes CDI Diesel engines OM640 and OM642 with M8x1 glow plug thread.

### Scope of Delivery:

#### KL-0369-33-1 K Upgrade Kit (CDI) for KL-0369-30 K/ KL-0369-32 K

Part No.	Description	Qty
KL-0369-331	Base Tool	1
KL-0369-3321	Guide Sleeve for Milling Cutter	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare)	1
KL-0369-3331	Guide Sleeve for Drill	1
KL-1383-2231	Pilot Drill, Ø 7.1 mm for M8x1	1
KL-1383-2232	Screw Tap, M8x1	1
KL-1383-2234	Set of Threaded Sleeves, M8x1, 16mm long (10-piece)	1
KL-0369-334	Puller for Glow Plug Body	1
KL-0369-56 B	Compressed Air Adaptor, M10x1	1
KL-0369-3361	Guide Sleeve for Cleaning Tool	1
KL-0369-3362	Cleaning Tool, Ø 7/4.8mm	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3390	Plastic Storage Case	1





## KL-1383-20 K

### Glow Plug Tool Set, PSA 2.0

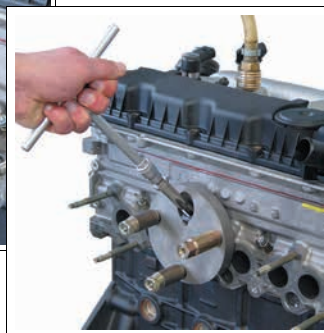
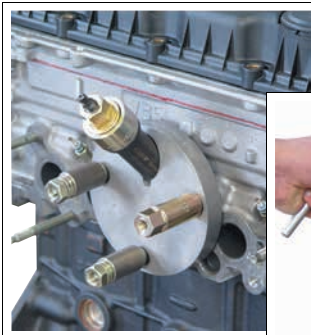
Suitable for use on the PSA 2.0 16V (110bhp, 135bhp) [DW10] HDI Diesel engines, as found in Citroën, Ford, Fiat, Lancia, Peugeot, Suzuki, Volvo vehicles etc.

The KL-1383-20 K glow plug tool set is indispensable for the accurate removal and drilling out of damaged glow plugs and for retapping the original M10x1 thread. It also allows for the repair of a damaged M10x1 glow plug retaining thread by drilling it up to M12x1. The new glow plug along with a threaded sleeve (M12x1 to M10x1) can then be screwed into the cylinder head.

#### Scope of Description:

#### KL-1383-20 K Glow Plug Tool Set, PSA 2.0

Part No.	Description	Qty
KL-1383-201	Compressed Air Adaptor for Injector Nozzle Bore Ø 17.1mm	1
KL-1383-202	Base Plate with Nuts	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare)	1
KL-1383-2041	Guide Sleeve for Drill	1
KL-1383-2042	Set of Threaded Sleeves, M10x1, 26mm long (10-piece)	1
KL-0283-7021	Pilot Drill, Ø 9.1mm for M10x1	1
KL-0283-7022	Screw Tap, M10x1	1
KL-0283-7031	Pilot Drill, Ø 11.1mm for M12x1	1
KL-0283-7032	Screw Tap, M12x1	1
KL-1383-205	Puller Kit for Glow Plug Body	1
KL-1383-206	Cleaning Tool Set for Glow Plug Channel	1
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-4007-2510	Adaptor for Power Drill, 3/8", Square Socket	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-1383-2090	Plastic Storage Case	1



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## KL-1383-21 K

### Glow Plug Tool Set, Peugeot/Citroën

Suitable for use on PSA 2.0 16V (110bhp, 135bhp) [DW10] HDI Diesel engines as found in Citroën, Ford, Fiat, Lancia, Peugeot, Suzuki, Volvo etc.

The KL-1383-21 K glow plug tool set is indispensable for the accurate removal and drilling out of damaged glow plugs and retapping the original M10x1 thread. The new glow plug along with a threaded sleeve (M12x1 to M10x1) can then be screwed into the cylinder head.

#### Scope of Delivery:

#### KL-1383-21 K Glow Plug Tool Set, Peugeot/Citroën

Part No.	Description	Qty
KL-1383-202	Base Plate with Nuts	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare)	1
KL-1383-2041	Guide Sleeve for Drill	1
KL-0283-7021	Pilot Drill, Ø 9.1mm for M10x1 thread	1
KL-0283-7022	Screw Tap, M10x1	1
KL-1383-205	Puller Kit for Glow Plug Body	1
KL-1383-206	Cleaning Tool Kit for Glow Plug Channel	1
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-4007-2510	Adaptor for Power Drill, 3/8", Square Socket	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-1383-2090	Plastic Storage Case	1



#### Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



DMK 100 CODE:2641232

Torque Wrench Dremaster 20-100Nm



7 R - Combination Ratchet Spanner



## KL-0369-309 K Guide Sleeve Set, PSA

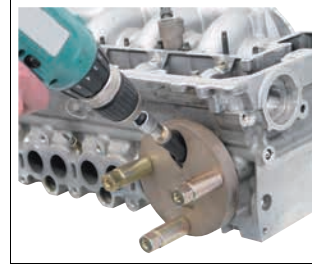
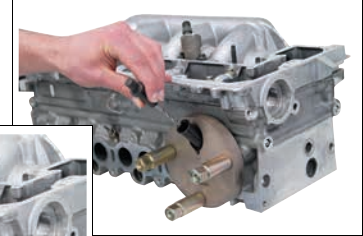
Applicable to PSA 2.0 (110bhp, 135bhp) [DW10] HDI TwinCam engines as found in Peugeot, Citroën etc.

This set complements our glow plug tool sets **KL-1383-20 K** and **KL-1383-21 K**. The guide sleeve set allows the user to mill off the central electrode from broken-off glow plugs. It is used in conjunction with the glow plug tool set **KL-1383-20 K** or **KL-1383-21 K**.

### Scope of Delivery:

#### KL-0369-309 K Guide Sleeve Set, PSA

Part No.	Description	Qty
KL-0369-3071	Guide Sleeve, Ø 17x76mm	1
KL-0369-3072	Guide Sleeve, Ø 17x60mm	1
KL-0369-3073	Guide Sleeve, Ø 17x41mm	1
KL-0369-3081	Retaining Sleeve for Ø 17mm	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3079	Plastic Storage Case with Insert	1



## KL-1383-20-1 K Upgrade Kit for KL-1383-22 K to form KL-1383-20 K, PSA 2.0

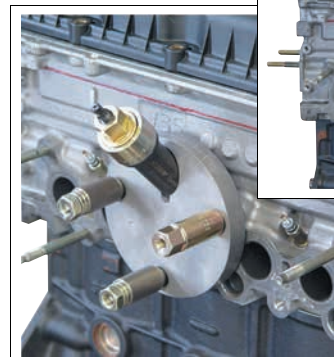
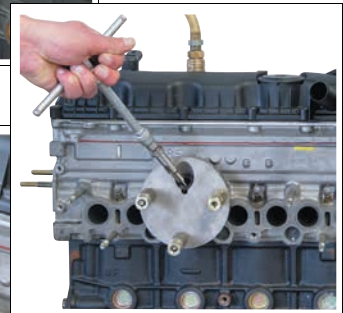
Suitable for use on the PSA 2.0 16V (110bhp, 135bhp) [DW10] HDI Diesel engines as found in Citroën, Ford, Fiat, Lancia, Peugeot, Suzuki, Volvo etc.

The **KL-1383-20-1 K** upgrade kit is designed to complement our **KL-1383-22 K** glow plug tool set, making it suitable also for use on the PSA 2.0 (110bhp, 135bhp) HDI Diesel engines as installed in Citroën, Ford, Fiat, Lancia, Peugeot, Suzuki, Volvo etc. (engine code: DW10).

### Scope of Delivery:

#### KL-1383-20-1 K Upgrade Kit for KL-1383-22 K to form KL-1383-20 K, PSA 2.0

Part No.	Description	Qty
KL-1383-201	Compressed Air Adaptor for Injector Nozzle Bore, Ø 17.1mm	1
KL-1383-202	Base Plate with Nuts	1
KL-1383-2041	Guide Sleeve for Drill	1
KL-1383-2042	Set of Threaded Sleeves M10x1, 26mm long (10 units)	1
KL-0283-7031	Pilot Drill, Ø 11.1mm for M12x1	1
KL-0283-7032	Screw Tap, M12x1	1
KL-1383-2051	Guide Sleeve for Puller	1
KL-1383-2052	Puller Bolt, 1/4"-20 UNC, 185mm long	1
KL-0369-3050	Puller (Base Tool)	1
KL-0369-3056	Screw Tap, 1/4"-20 UNC, with Drill Bit	1
KL-1383-2061	Cleaning Tool, Ø 5.8mm	1
KL-1383-2062	Guide Sleeve for Cleaning Tool (Ø 5.8mm)	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-1383-2090	Plastic Storage Case	1





## KL-1383-22 K

(Patented)

### Glow Plug Tool Set, PSA 2.2

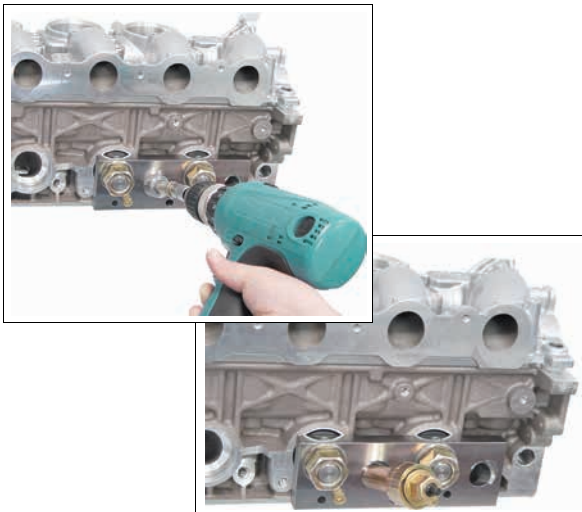
**Suitable for use on PSA 2.2 16V [DW12] HDI Diesel engines as found in Peugeot, Citroën, Ford, Fiat, Lancia, Jaguar etc.**

The **KL-1383-22 K** glow plug tool set enables the accurate removal respectively drilling out of damaged glow plugs, as well as re-tapping the original M8x1 thread. It also allows the user to repair a damaged M8x1 glow plug retaining thread by drilling it up to M10x1. Then, a new glow plug along with a threaded sleeve (M10x1 to M8x1) can be screwed into the cylinder head. With the aid of the compressed air adaptor that comes with the set, air can be injected into the combustion chamber so as to prevent dirt and swarf from entering the latter.

#### Scope of Delivery:

#### KL-1383-22 K Glow Plug Tool Set, PSA 2.2

Part No.	Description	Qty
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-1383-221	Base Plate with Bolt	1
KL-1383-2221	Guide Sleeve (long) for Milling Cutter	1
KL-1383-2222	Guide Sleeve for Milling Cutter	1
KL-4007-2510	Adaptor for Power Drill, 3/8", Square Socket	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare)	1
KL-1383-2233	Guide Sleeve for Drill	1
KL-1383-2231	Pilot Drill, Ø 7.1mm for M8x1	1
KL-1383-2232	Screw Tap, M8x1	1
KL-0283-7021	Pilot Drill, Ø 9.1mm for M10x1	1
KL-0283-7022	Screw Tap, M10x1	1
KL-1383-2234	Set of Threaded Sleeves, M8x1, 16mm long (10-piece)	1
KL-0369-306	Tool Holder with Square Socket, 2.4-5.5mm	1
KL-1383-224	Puller Tool for Glow Plug Body	1
KL-1383-225	Compressed Air Adaptor for Injection Nozzle Bore, PSA 2.2	1
KL-1383-2261	Guide Sleeve for Cleaning Tool	1
KL-1383-2262	Cleaning Tool, Ø 6.8/5.2mm	1
KL-1383-2290	Plastic Storage Case	1



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## KL-1383-22-1 K

(Patented)

### Upgrade Kit (HDI) for KL-1383-20 K, PSA 2.2

**Suitable for use on PSA 2.2 16 V [DW12] HDI Diesel engines as found in Citroën, Ford, Fiat, Jaguar, Lancia, Peugeot etc.**

The **KL-1383-22-1 K** tool kit upgrades our **KL-1383-20 K** glow plug tool set so that it also covers the PSA 2.2 16V [DW12] HDI Diesel engines installed in Citroën, Ford, Fiat, Jaguar, Lancia, Peugeot etc.

#### Scope of Delivery:

#### KL-1383-22-1 K Upgrade kit (HDI) for KL-1383-20 K, PSA 2.2

Part No.	Description	Qty
KL-1383-221	Base Plate with Bolts	1
KL-1383-2221	Guide Sleeve (long) for Milling Cutter	1
KL-1383-2222	Guide Sleeve for Milling Cutter	1
KL-1383-2231	Pilot Drill, Ø 7.1mm for M8x1	1
KL-1383-2233	Guide Sleeve for Drill	1
KL-1383-2232	Screw Tap, M8x1	1
KL-1383-2234	Set of Threaded Sleeves, M8x1, 16mm long (10-piece)	1
KL-1383-2241	Screw Tap, No.12-24 UNC, with Drill Bit	1
KL-1383-2242	Puller Bolt, No.12-24 UNC, 165mm long	1
KL-0283-7050	Puller (Base Tool)	1
KL-1383-225	Compressed Air Adaptor for Injector Nozzle Bore, PSA 2.2	1
KL-1383-2261	Guide Sleeve for Cleaning Tool	1
KL-1383-2262	Cleaning Tool, Ø 6.8/5.2mm	1
KL-1383-2290	Plastic Storage Case	1



## KL-1383-291 K Thread Cleaning Kit for Glow Plug Retaining Thread M8x1

Suitable for use on PSA 2.2 16V (DW12) and Fiat 2.3 (F1A); 3.0 (F1C, F30 DT) JTD/HDI Diesel engines as installed in Citroën, Peugeot, Ford, Fiat, Jaguar, Lancia, IVECO etc.

The KL-1383-291 K thread cleaning kit enables the removal/drilling out of damaged glow plugs as well as retapping the original M8x1 retaining thread.

### Scope of Delivery:

#### KL-1383-291 K Thread Cleaning Kit for Glow Plug Retaining Thread M8x1

Part No.	Description	Qty
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-0369-306	Tool Holder with Square Socket, 2,4-5.5mm	1
KL-4007-2510	Adaptor for Power Drill, 3/8"	1
KL-1683-2051	Pilot Drill, Ø 7.1mm for M8x1	1
KL-1683-2052	Screw Tap, M8x1	1
KL-1383-2241	Screw Tap, 12-24 UNC, with Drill Bit	1
KL-0132-5501	Puller Bolt, No. 12-24 UNC, for Slide Hammer Puller	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0132-5590	Plastic Storage Case	1



## KL-1683-20-2 K Upgrade Kit for KL-1383-291 K to form KL-1683-20 K

Suitable for use on Fiat 2.3 (F1A) and 3.0 (F1C, F30 DT) JTD/HDI Diesel engines as found in Fiat Ducato, IVECO Daily, Citroën Jumper, Peugeot Boxer.

The KL-1683-20-2 K upgrade kit is designed to be used with the KL-1383-291 K thread cleaning kit, thus enabling the precise removal/drilling out of damaged glow plugs and re-tapping the original M8x1 thread. It also allows for the repair of damaged M8x1 glow plug retaining threads by drilling up to M10x1. Then, a new glow plug along with a threaded sleeve (M10x1 to M8x1) can be screwed into the cylinder head. With the aid of the compressed air adaptor included in the set, air can be injected into the combustion chamber so as to prevent dirt and swarf from entering the latter.

### Scope of Delivery:

#### KL-1683-20-2 K Upgrade Kit for KL-1383-291 K to form KL-1683-20 K

Part No.	Description	Qty
KL-1683-2012	Centring Sleeve	1
KL-1683-201	Base Fitting Strip, 2.3 JTD	1
KL-1683-202	Base Fitting Strip, 3.0 JTD	1
KL-1683-2031	Guide Sleeve for Milling Cutter	1
KL-1683-2032	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare)	1
KL-1683-2041	Guide Sleeve for Drill	1
KL-1683-2061	Pilot Drill, Ø 9.1mm for M10x1	1
KL-1683-2062	Screw Tap, M10x1	1
KL-1383-2234	Set of Threaded Sleeves M8x1, 16mm long (10-piece)	1
KL-0283-7050	Puller (Base Tool)	1
KL-1683-2071	Support Sleeve for Puller	1
KL-0369-3052	Shoulder Nut	1
KL-1383-2242	Puller Bolt, No.12-24 UNC, 165mm long	1
KL-0369-56 B	Compressed Air Adaptor, M10x1	1
KL-1683-2081	Guide Sleeve for Reamer	1
KL-1683-2082	Reamer, Ø 6.9/4.9mm	1
KL-1683-2090 A	Plastic Storage Case	1



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### Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet 

7 R - Combination Ratchet Spanner 





## KL-1383-292 K Thread Cleaning Kit for Glow Plug Retaining Thread M10x1

**Suitable for use on PSA 2.0 16V (110bhp, 135bhp) [DW10] HDI Diesel engines as found in Citroën, Ford, Fiat, Lancia, Peugeot, Suzuki, Volvo etc.**

The **KL-1383-292 K** thread cleaning kit enables the removal/drilling out of damaged glow plugs as well as re-tapping the original M10x1 thread.

### Scope of Delivery:

#### KL-1383-292 K Thread Cleaning Kit for Glow Plug Retaining Thread M10x1

Part No.	Description	Qty
KL-4007-2510	Adaptor for Power Drill, 3/8", Square	1
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-0283-7021	Pilot Drill, Ø 9.1mm for M10x1	1
KL-0283-7022	Screw Tap, M10x1	1
KL-0369-306	Tool Holder with Square Socket, 2.4-5.5mm	1
KL-0369-3056	Screw Tap, 1/4"-20 UNC, with Drill Bit	1
KL-0132-5202	Puller Bolt, 1/4"-20 UNC for Slide Hammer Puller	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0132-5590	Plastic Storage Case	1

## KL-1383-22-2 K (Patented) Upgrade Kit for KL-1383-291 K to form KL-1383-22 K

**Suitable for use on PSA 2.2 16V [DW12] HDI Diesel engines as installed in Citroën, Ford, Fiat, Jaguar, Lancia, Peugeot etc.**

The **KL-1383-22-2 K** upgrade kit is designed to be used with the **KL-1383-291 K** thread cleaning kit, thus enabling the precise removal/drilling out of damaged glow plugs and re-tapping the original M8x1 thread. It also allows for the repair of damaged M8x1 glow plug retaining threads by drilling up to M10x1. Then, a new glow plug along with a threaded sleeve (M10x1 to M8x1) can be screwed into the cylinder head. With the aid of the compressed air adaptor included in the set, compressed air can be injected into the combustion chamber so as to prevent dirt and swarf from entering the latter.

### Scope of Delivery:

#### KL-1383-22-2 K Upgrade Kit for KL-1383-291 K to form KL-1383-22 K

Part No.	Description	Qty
KL-1383-221	Base Plate with Bolts	1
KL-1383-2221	Guide Sleeve (long) for Milling Cutter	1
KL-1383-2222	Guide Sleeve for Milling Cutter	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare)	1
KL-1383-2233	Guide Sleeve for Drill	1
KL-0283-7021	Pilot Drill, Ø 9.1mm for M10x1	1
KL-0283-7022	Screw Tap, M10x1	1
KL-1383-2234	Set of Threaded Sleeves, M8x1, 16mm long (10 units)	1
KL-1383-2242	Puller Bolt, No.12-24 UNC, 165mm long	1
KL-0369-3052	Shoulder Nut	1
KL-0283-7050	Puller (Base Tool)	1
KL-1383-225	Compressed Air Adaptor for Injector Nozzle Bore	1
KL-1383-2261	Guide Sleeve for Reamer	1
KL-1383-2262	Reamer, Ø 6.8/5.2mm	1
KL-1383-2290	Plastic Storage Case	1

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## KL-1383-20-2 K

### Upgrade Kit for KL-1383-292 K to form KL-1383-20 K

**Suitable for use on PSA 2.0 16V (110bhp, 135bhp) [DW10] HDI Diesel engines as found in Citroën, Ford, Fiat, Lancia, Peugeot, Suzuki, Volvo etc.**

The **KL-1383-20-2 K** upgrade kit is designed to be used with the **KL-1383-292 K** thread cleaning kit, thus enabling the precise removal and drilling out of damaged glow plugs and re-tapping the original M10x1 thread. It also allows for the repair of damaged M10x1 glow plug retaining threads by drilling up to M12x1. The new glow plug along with a threaded sleeve (M12x1 to M10x1) can then be screwed into the cylinder head. With the aid of the compressed air adaptor included in the set, air can be injected into the combustion chamber so as to prevent dirt and swarf from entering the latter.

#### Scope of Delivery: KL-1383-20-2 K Upgrade Kit for KL-1383-292 K

Part No.	Description	Qty
KL-1383-201	Compressed Air Adaptor for Injector Nozzle Bore Ø 17.1mm	1
KL-1383-202	Base Plate with Nuts	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare)	1
KL-1383-2041	Guide Sleeve for Drill	1
KL-1383-2042	Set of Threaded Sleeves, M10x1, 26mm long	1
KL-0283-7031	Pilot Drill, Ø 11.1mm for M12x1	1
KL-0283-7032	Screw Tap, M12x1	1
KL-0369-3050	Puller (Base Tool)	1
KL-1383-2051	Guide Sleeve for Puller Tool	1
KL-1383-2052	Puller Bolt, 1/4"-20 UNC, 185mm long	1
KL-1383-206	Cleaning Tool Set for Glow Plug Channel	1
KL-1383-2090	Plastic Storage Case	1



## KL-1383-24 K

(Patented)

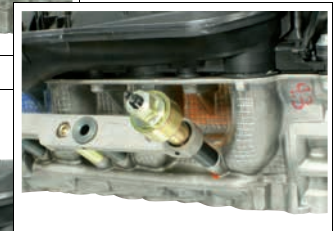
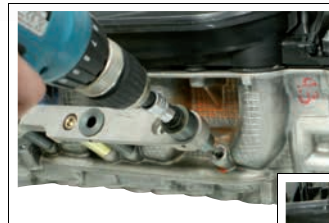
### Glow Plug Tool Set, PSA 2.7 HDI and 3.0 HDI

**Suitable for use on PSA 2.7 HDI and 3.0 HDI V6 Diesel engines as fitted to: Citroën C5, C6 [engine codes: DT17TED (UHZ), DT17TED4 (UHZ), DT20C]; Peugeot 407, 607 [engine codes: DT17TED (UHZ), DT17TED4 (UHZ)]; Jaguar S-Type, XJ [engine codes: 7B, 7G, AJ-V6D]; and Land Rover Discovery III, Range Rover Sport [engine code: 276DT].**

The **KL-1383-24 K** glow plug tool set enables the accurate removal/drilling out of damaged glow plugs and recutting the original M8x1 thread. It also allows the user to repair a damaged M8x1 glow plug retaining thread by drilling it up to M10x1. Then, a new glow plug together with a threaded sleeve (M10x1 to M8x1) is screwed into the cylinder head. Impurities are prevented from entering the combustion chamber by using the suction device for cleaning tool that comes with the kit.

#### Scope of Delivery: KL-1383-24 K Glow Plug Tool Set, PSA 2.7 HDI and 3.0 HDI

Part No.	Description	Qty
KL-1383-241	Base Fitting Strip with Sleeves	1
KL-1383-246	Glow Plug Tube Puller	1
KL-1383-248	Cleaning Tool Set with Bellows	1
KL-1383-247	Suction Device for Cleaning Tool	1
KL-0369-306	Tool Holder with Square Socket, 2.4-5.5mm	1
KL-4007-2510	Adaptor for Power Drill, 3/8", square	1
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare)	1
KL-1383-2421	Guide Sleeve (long) for Milling Cutter	1
KL-1383-2422	Guide Sleeve (short) for Milling Cutter	1
KL-1383-2431	Guide Sleeve for Drill	1
KL-1383-2451	Pilot Drill, Ø 9.1mm for M10x1	1
KL-1383-2452	Screw Tap, M10x1	1
KL-1383-2441	Pilot Drill, Ø 7.1mm for M8x1	1
KL-1383-2442	Screw Tap, M8x1	1
KL-1383-2234	Set of Threaded Sleeves, M8x1, 16mm long (10-piece)	1
KL-1383-2490	Plastic Storage Case	1





## KL-1683-20 K

### Glow Plug Tool Set, Fiat 2.3 JTD and 3.0 JTD

**Suitable for use on Fiat 2.3 (F1A) and 3.0 (F1C, F30 DT) JTD/HDI Common Rail Diesel engines with an M8x1 glow plug retaining thread as fitted to Fiat Ducato, IVECO Daily, Citroën Jumper, Peugeot Boxer.**

The **KL-1683-20 K** glow plug tool set enables the accurate removal/drilling out of damaged glow plugs and re-tapping the original M8x1 thread. It also allows the user to repair a damaged M8x1 glow plug retaining thread by drilling it up to M10x1. Then, a new glow plug together with a threaded sleeve (M10x1 to M8x1) can be screwed into the cylinder head. With the aid of the compressed air adaptor included in the set, air can be injected into the combustion chamber so as to prevent dirt and swarf from entering the latter.

#### Technical Data:

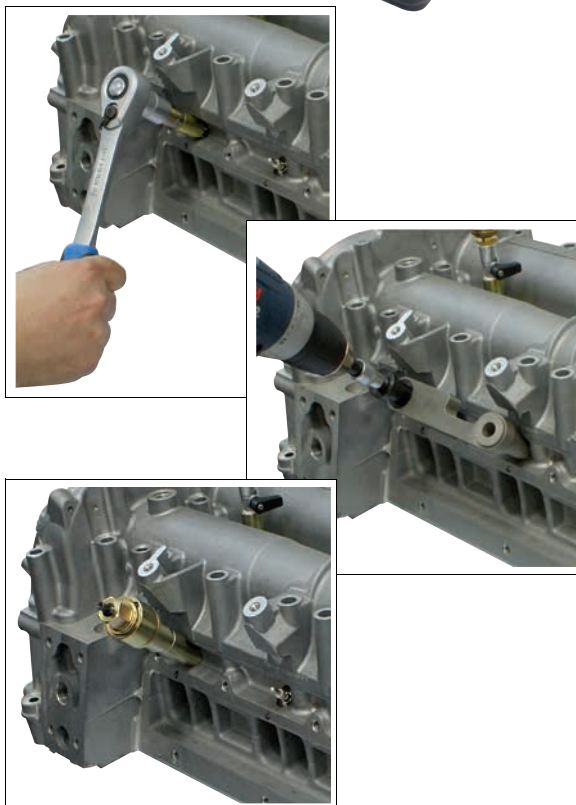
For glow plug thread:	M8x1
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#### Scope of Delivery: KL-1683-20 K Glow Plug Tool Set, Fiat 2.3 JTD and 3.0 JTD

Part No.	Description	Qty
<b>KL-1683-200 K</b>	<b>Glow Plug Tool Set, Fiat 2.3 JTD and 3.0 JTD</b>	<b>1</b>
KL-1683-2031	Guide Sleeve for Milling Cutter	1
KL-1683-2032	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare)	1
KL-1683-2061	Pilot Drill, Ø 9.1mm for M10x1	1
KL-1683-2062	Screw Tap, M10x1	1
KL-1683-2063	Set of Threaded Sleeves, M8x1, 13mm long (10-pc.)	1
KL-0369-56 B	Compressed Air Adaptor for injector Nozzle Bore, CDI	1
KL-0126-221	Flexible Magnetic Lifter	1

#### Scope of Delivery: KL-1683-200 K Glow Plug Tool Set, Fiat 2.3 JTD and 3.0 JTD

Part No.	Description	Qty
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-1683-2012	Centring Sleeve	1
KL-1683-201	Base Fitting Rail, 2.3 JTD	1
KL-1683-202	Base Fitting Rail, 3.0 JTD	1
KL-4007-2510	Adaptor for Power Drill, 3/8"	1
KL-1683-2041	Guide Sleeve for Drill	1
KL-1683-2051	Pilot Drill, Ø 7.1mm for M8x1	1
KL-1683-2052	Screw Tap M8x1	1
KL-0369-306	Tool Holder with Square Socket, 2.4 - 5.5mm	1
KL-1683-207	Puller Kit for Glow Plug Body	1
KL-1683-2081	Guide Sleeve for Cleaning Tool	1
KL-1683-2082	Cleaning Tool, Ø 6.9/4.9mm	1
KL-1683-2090 A	Plastic Storage Case	1



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## KL-1683-21-1

### Upgrade Kit for KL-1683-20 K

**Suitable for use on Fiat, Alfa and Lancia 1.3 JTD (Euro 4) Common Rail Diesel engines having an M8x1 glow plug retaining thread, as fitted to:**

**Fiat 500/500C, Doblo, Doblo Cargo, Doblo Work Up, Fiorino, Grande Punto, Idea, Linea, Panda, Punto, Punto Evo, Qubo, Strada Pick-up; Alfa MiTo and Lancia Musa, Ypsilon. (Engine codes: 169A1.000, 169A5.000, 188A8.000, 188A9.000, 199A2.000, 199A3.000, 199A9.000, 199B1.000, 199B2.000, 199B4.000, 223A9.000, 263A2.000)**

The **KL-1683-21-1** upgrade kit is designed to complement the glow plug tool set **KL-1683-20 K** so that the latter also covers the applications of the **KL-1683-21 K** glow plug tool set (Fiat 1.3 JTD).

#### Scope of Delivery: KL-1683-21-1 Upgrade Kit for KL-1683-20 K

Part No.	Description	Qty
KL-1683-211	Base Plate	1
KL-1683-2112	Guide Sleeve	2
KL-1683-212	Reamer, Ø 6.9/4.9mm	1



#### Accessories (on demand):

**1993 U-20** CODE:1436686 - Reversible ratchet



**7 R - Combination Ratchet Spanner**



## KL-1683-21 K Glow Plug Tool Set, Fiat 1.3 JTD

Suitable for use on Fiat, Alfa and Lancia 1.3 JTD (Euro 4) Common Rail Diesel engines having an M8x1 glow plug retaining thread, as fitted to: Fiat 500/500C, Doblo, Doblo Cargo, Doblo Work Up, Fiorino, Grande Punto, Idea, Linea, Panda, Punto, Punto Evo, Qubo, Strada Pick-up; Alfa MiTo and Lancia Musa, Ypsilon. (Engine codes: 169A1.000, 169A5.000, 188A8.000, 188A9.000, 199A2.000, 199A3.000, 199A9.000, 199B1.000, 199B2.000, 199B4.000, 223A9.000, 263A2.000)

The KL-1683-21 K glow plug tool set enables the accurate removal/drilling out of damaged glow plugs and re-tapping the original M8x1 thread. It also allows the user to repair a damaged M8x1 glow plug retaining thread by drilling it up to M10x1. Then, a new glow plug together with a threaded sleeve (M10x1 to M8x1) can be screwed into the cylinder head. With the aid of the compressed air adaptor included in the set, air can be injected into the combustion chamber so as to prevent dirt and swarf from entering the latter.

### Technical Data:

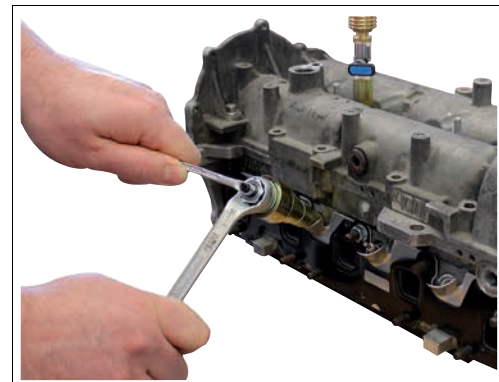
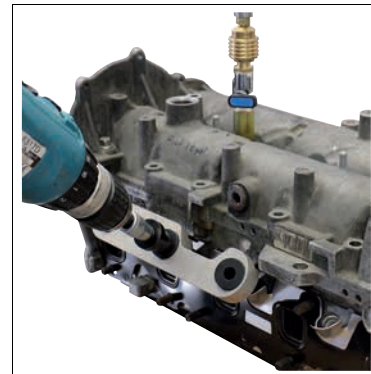
For glow plug thread:	M8x1
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### Scope of Delivery: KL-1683-21 K Glow Plug Tool Set, Fiat 1.3 JTD

Part No.	Description	Qty
KL-1683-210 K	Glow Plug Tool Set, Fiat 1.3 JTD	1
KL-1683-2032	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare)	1
KL-1683-2031	Guide Sleeve for Milling Cutter	1
KL-1683-2061	Pilot Drill, Ø 9.1mm for M10	1
KL-1683-2062	Screw Tap, M10x1	1
KL-1683-2063	Set of Threaded Sleeves M8x1, 13mm long, (10-pc.)	1
KL-0369-56 B	Compressed Air Adaptor, M10x1	1

### Scope of Delivery: KL-1683-210 K Glow Plug Tool Set, Fiat 1.3 JTD

Part No.	Description	Qty
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-1683-2112	Guide Sleeve	2
KL-1683-211	Base Plate	1
KL-1683-2041	Guide Sleeve for Drill	1
KL-4007-2510	Adaptor for Power Drill 3/8"	1
KL-1683-2051	Pilot Drill, Ø 7.1mm for M8x1	1
KL-1683-2052	Screw Tap, M8x1	1
KL-0369-306	Tool Holder with Square Socket	1
KL-1683-207	Puller Kit for Glow Plug Body	1
KL-1683-2081	Guide Sleeve for Reamer	1
KL-1683-212	Reamer, Ø 6.9/4.9mm	1
KL-0126-221	Flexible Magnetic Lifter	1
42 KEL 2,5	Hex Socket Key, Size (waf) 2.5mm	1
KL-1683-2090 A	Plastic Storage Case	1



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## KL-1683-20-1 Upgrade Kit for KL-1683-21 K

Suitable for use on Fiat 2.3 (F1A) and 3.0 (F1C, F30 DT) JTD/HDI Common Rail Diesel engines having an M8x1 glow plug retaining thread as fitted to Fiat Ducato, IVECO Daily, Citroën Jumper, Peugeot Boxer.

The KL-1683-20-1 is designed to upgrade the KL-1683-21 K glow plug tool set (Fiat 1.3 JTD) so that the latter also covers the applications of the KL-1683-20 K glow plug tool set (2.3 JTD and 3.0 JTD).

### Scope of Delivery: KL-1683-20-1 Upgrade Kit for KL-1683-21 K

Part No.	Description	Qty
KL-1683-201	Base Fitting Strip, 2.3 JTD	1
KL-1683-202	Base Fitting Strip, 3.0 JTD	1
KL-1683-2012	Centring Sleeve	1
KL-1683-2082	Cleaning Tool, Ø 6.9/4.9mm	1





## KL-0369-900 KA

### Set of Glow Plug/Spark Plug Sockets With Joint (8-Piece)

#### Universal application.

An indispensable tool set for the professional and damage-free removal and installation of spark plugs, glow plugs as well as 'PSG' glow plugs (pressure sensor glow plugs). The sockets are provided with a retaining rubber on the inside designed to prevent the spark plug/glow plug from dropping. The long and slim design of the jointed sockets allows even deep-seated glow plugs/spark plugs that are difficult to reach to be removed quickly and with ease.

Using a conventional socket risks damaging the 'PSG' glow plug during removal/installation. When removing/installing 'PSG' glow plugs, protective caps (included in the tool set) must always be used in order to protect the plug connector against dirt and electrostatic charging.

#### Scope of Delivery: KL-0369-900 KA Set of Glow Plug/Spark Plug Sockets

Part No.	Description	Qty
KL-0369-9001	Glow Plug Socket with Joint, Size (waf) 8mm, long	1
KL-0369-9002	Glow Plug Socket with Joint, Size (waf) 9mm, long	1
KL-0369-9003	Glow Plug Socket with Joint, Size (waf) 10mm, long	1
KL-0369-9004	Glow Plug Socket with Joint, Size (waf) 12mm, long	1
KL-0369-9005	Spark Plug Socket with Joint, Size (waf) 14mm, long	1
KL-0369-9006	Spark Plug Socket with Joint, Size (waf) 16mm, long	1
KL-0369-9007	Glow Plug Socket with Joint, Size (waf) 12mm, for 'PSG' Glow Plug	1
KL-0369-9007-10	Protective Cap for 'PSG' Glow Plug	5
KL-0369-9090 A	Plastic Storage Case	1

#### Technical Data:

Size (waf):	8, 9, 10, 12, 14, 16mm
Drive:	3/8"
Length:	85mm
Weight:	560g



## KL-0369-9007

### Glow Plug Socket with Joint, Size (waf) 12mm, for 'PSG' Glow Plug

**Applicable to VW-Audi, Seat, Škoda and Opel/Vauxhall Common Rail Diesel engines with 'PSG' glow plugs (BERU PSG001, PSG002, PSG004). For example, fitted to Audi A1 (8X), A3 (8V), A4 (8K), A5 (8T, 8F), A6 (4G), A7 (4G), A8 (4H), Q3 (8U), Q7 (4L); VW Beetle (5C), Golf Sportsvan (AM), Golf VI (5K, AJ), Golf VII (5G, BE, BA), Jetta III (1K), Jetta IV (162), Passat (3G), Polo (6R, 6C), Scirocco (137, 138), Touareg (7L), Touareg (7P), XL1; Seat Leon (5F); Škoda Fabia III (NJ), Octavia III (5E); Opel/Vauxhall Insignia (G06), Astra J (P10).**

An indispensable tool for the professional and damage-free removal and installation of 'PSG' glow plugs (pressure sensor glow plugs). The socket is provided with a retaining rubber on the inside designed to prevent the 'PSG' glow plug from dropping. Using a conventional socket risks damaging the 'PSG' glow plug during removal/installation.

#### Note:

When removing/installing 'PSG' glow plugs, protective caps must always be used in order to protect the plug connector against dirt and electrostatic charging. These caps can be ordered separately as accessories (KL-0369-9007-10 Set of Protective Caps).

#### Technical Data:

Drive:	3/8"
Size (waf):	12mm

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#### Technical Data:

Drive:	3/8"
Length:	63mm

## KL-4013-2108

### Socket, Size (waf) 8mm

**Suitable for use on VW-Audi 2.0 TDI engines (engine code: BKP, etc.) as found in VW Passat 3C.**

Designed to remove and install glow plugs. On 2.0 TDI engines with engine code BKP, etc., the glow plug is fitted on the top in the cylinder head under the valve cover. For this type of glow plugs, a conventional articulated socket cannot be used as it will touch the camshaft.



#### Technical Data:

Drive:	3/8"
Length:	63mm

## KL-4013-2110

### Socket, Size (waf) 10mm

**Suitable for use on 1.5 dCi engines (engine code: K9K) fitted to Renault, Dacia, Nissan.**

Designed to remove and install glow plugs.

#### Accessories (on demand):

**3093 U-20** CODE:1556800 - Reversible ratchet 3/8" 200mm

**4549-05** CODE:1545140

**Torque Wrench TORCOFIX K 3/8" 5-50Nm**



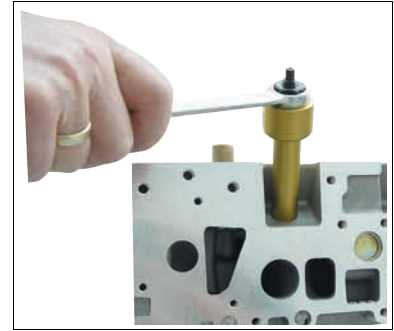
## KL-0369-201 A Glow Plug Removal Tool, Mercedes

Universally applicable to Diesel engines having an M10x1 glow plug retaining thread and glow plugs with size (waf) of 10mm.  
The ideal tool for, e.g., Mercedes CDI engines OM611, OM612, OM613, OM646\*, OM647 and OM648 etc. (\*except OM646 EVO)

For extracting glow plugs that have been loosened, but are still stuck in their bore holes.

**Technical Data:**

Length:	135mm
Drive:	waf 19mm



## KL-0132-53 K Thread Repair Kit for Glow Plug Thread M8x1

For example, applicable to VW-Audi, BMW, Mercedes, Nissan, Renault etc.

If the thread in the cylinder head is damaged, special threaded inserts (internal thread M8x1) can be inserted with the aid of the thread repair kit KL-0132-53 K.

**Scope of Delivery:**

KL-0132-53 K Thread Repair Kit for Glow Plug Thread M8x1

Part No.	Description	Qty
KL-0132-5301	Thread Cleaning Tool, M8x1	1
KL-0132-5304	Threaded Inserts, M8x1, 10mm long (10 pieces)	1
KL-0132-5302	Special Drill for Threaded Inserts, M8x1	1
KL-0132-5303	Special Tap for Threaded Inserts, M8x1	1
KL-0132-123	Square Bit Holder, 10mm (waf), 3/8" drive	1
KL-0132-1290	Plastic Storage Case	1



## KL-0132-51 K Thread Repair Kit for Glow Plug Thread M10x1

For example, applicable to VW-Audi, BMW, Mercedes, Nissan, Renault etc.

If the thread in the cylinder head is damaged, special threaded inserts (internal thread M10x1) can be inserted with the aid of the thread repair kit KL-0132-51 K.

**Technical Data:**

Size (waf):	8, 9, 10, 12, 14, 16mm
Drive:	3/8"
Length:	80mm
Weight:	560g

**Scope of Delivery:**

KL-0132-51 K Thread Repair Kit for glow plug thread M10x1

Part No.	Description	Qty
KL-0132-511-1	Thread Cleaning Tool, M10x1	1
KL-0132-512 A	Threaded Inserts, M10x1, Length 10mm (10 pieces)	1
KL-0132-513-1	Special Drill for Threaded Inserts, M10x1	1
KL-0132-514-1	Special Tap for Threaded Inserts, M10x1	1
KL-0132-123	Square Bit Holder, 10mm (waf), 3/8" drive	1
KL-0132-1290	Plastic Storage Case	1





## KL-0132-54 K Thread Repair Kit for Glow Plug Thread M10x1.25

This tool set allows for the fast and easy cleaning or repair of glow plug threads on aluminium cylinder heads.

Dirty threads can be cleaned and re-tapped using our thread cleaning tool. Damaged threads can be drilled up with the aid of the special drill. Then, a new M12x1.25 thread is cut for retaining threaded inserts with an M10x1.25 internal thread.

### Technical Data:

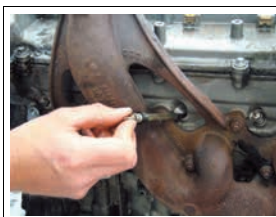
Drive:	3/8"
For glow plug thread:	M10x1.25

### Scope of Delivery:

#### KL-0132-54 K Thread Repair Kit for Glow Plug Thread M10x1.25

Part No.	Description	Qty
KL-0132-5401	Thread Cleaning Tool, M10x1.25	1
KL-0132-5402	Special Drill for Threaded Inserts, M10x1.25	1
KL-0132-5403	Special Tap for Threaded Inserts, M10x1.25	1
KL-0132-5404	Threaded Inserts, M10x1.25, 10mm long (10 pcs)	1
KL-0132-123	Square Bit Holder, 10mm (waf), 3/8" drive	1
KL-0132-1290	Plastic Storage Case	1

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## KL-0132-5 K Thread Repair Kit for Glow Plug Thread M12x1.25

For example, applicable to VW-Audi, Mercedes, Toyota etc.

If the thread in the cylinder head is damaged, special threaded inserts (internal thread M12x1.25) can be inserted with the aid of the thread repair kit **KL-0132-5 K**.

### Scope of Delivery:

#### KL-0132-5 K Thread Repair Kit for Glow Plug Thread M12x1.25

Part No.	Description	Qty
KL-0132-501-1	Special Drill for Threaded Inserts, M12x1.25	1
KL-0132-502-1	Special Tap for Threaded Inserts, M12x1.25	1
KL-0132-412	Threaded Inserts, 12x1.25, Length 11mm (10 pieces)	1
KL-0132-123	Square Bit Holder, 10mm (waf), 3/8" drive	1
KL-0132-1290	Plastic Storage Case	1



## KL-0132-41 K Thread Repair Kit for Spark Plug Thread M12x1.25

This thread repair kit is intended for the repair of spark plug threads on aluminium cylinder heads. Using the special tap that comes with the kit, the damaged thread can be drilled out and a new M14x1.25 thread can be recut at the same time to retain threaded inserts with an internal thread of M12x1.25.

### Scope of Delivery:

#### KL-0132-41 K Thread Repair Kit for Spark Plug Thread M12x1.25

Part No.	Description	Qty
KL-0132-411-1	Special Tap (for M12x1.25)	1
KL-0132-412	Threaded Inserts, M12x1.25, Length 11mm (10 pieces)	1
KL-0132-413	Threaded Inserts, M12x1.25, Length 17.5mm (10 pieces)	1
KL-0132-123	Square Bit Holder, 10mm (waf), 3/8" drive	1
KL-0132-1290	Plastic Storage Case	1

## KL-0132-42 K Thread Repair Kit for Spark Plug Thread M14x1.25

This thread repair kit is intended for the repair of spark plug threads on aluminium cylinder heads.

Using the special tap that comes with the kit, the damaged thread can be drilled out and a new M16x1.25 thread can be recut at the same time for retaining threaded inserts with an interna thread of M14x1.25.

### Scope of Delivery:

#### KL-0132-42 K Thread Repair Kit for Spark Plug Thread M14x1.25

Part No.	Description	Qty
KL-0132-421-1	Special Tap for M14x1.25	1
KL-0132-422	Threaded Inserts, M14x1.25, Length 11mm (10 pieces)	1
KL-0132-423	Threaded Inserts, M14x1.25, Length 17.5mm (10 pieces)	1
KL-0132-123	Square Bit Holder, 10mm (waf), 3/8" drive	1
KL-0132-1290	Plastic Storage Case	1



## KL-0132-590 KA Thread Repair Kit

**Applicable to glow plug threads M10x1 and M12x1.25 as well as for oil sump plug thread M14x1.5 and M16x1.5; also suitable for injector nozzle fixing screw thread M6.**

This tool set is indispensable for the quick and easy cleaning/repair of threads on aluminium cylinder heads and aluminium oil sumps.

### Field of application: Aluminium Cylinder Head:

Glow plug thread: The dirty thread M10x1 is cleaned and recut using the thread cleaning tool.

The damaged thread is drilled up by means of the special drill. Then, with the aid of the special tap, a new thread with M12x1 or M14x1.25 is cut to retain the threaded inserts with an internal thread of M10x1 or M12x1.25.

Injector nozzle fixing screw thread: The M6 threaded inserts are screwed into the injector nozzle fixing screw thread that has been drilled up to M8x1 for the repair.

### Field of application: Aluminium Oil Sump:

With the aid of the special tap (M14x1.5 or M16x1.5), the old thread is drilled out and a new thread is being cut at the same time to retain the sump screw plug.

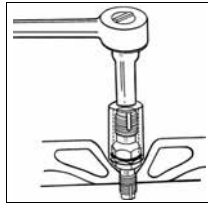
### Scope of Delivery:

#### KL-0132-590 KA Thread Repair Kit

Part No.	Description	Qty
KL-0132-583	Set of Threaded Sleeves, M6, 20mm long (10-pc.)	1
KL-0132-123	Square Bit Holder, 10mm (waf), 3/8" Drive	1
KL-0132-481-1	Special Tap for M14x1.5	1
KL-0132-482	Set of Sump Screw Plugs (5-pc.)	1
KL-0132-484	Set of Sealing Rings (Aluminium), Ø 15x20x1.3mm (5-pc.)	1
KL-0132-4901	Special Tap for M16x1.5	1
KL-0132-4902	Set of Sump Screw Plugs, M17x1.5 (5-pc.)	1
KL-0132-4903	Set of Sealing Rings (Aluminium), Ø 24x17.1x1.5mm (5-pc.)	1
KL-0132-501-1	Special Drill for Threaded Inserts, M12x1.25	1
KL-0132-502-1	Special Tap for Threaded Inserts, M12x1.25	1
KL-0132-412	Threaded Inserts, M12x1.25x11 (10 units)	1
KL-0132-511-1	Thread Cleaning Tool, M10x1	1
KL-0132-512 A	Threaded Inserts, M10x1x10 (10 units)	1
KL-0132-513-1	Special Drill for Threaded Inserts, M10x1	1
KL-0132-514-1	Special Tap for Threaded Inserts, M10x1	1
KL-0132-5990	Plastic Storage Cse	1



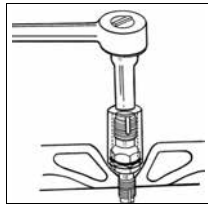




## KL-0127-2206

### Screw Tap

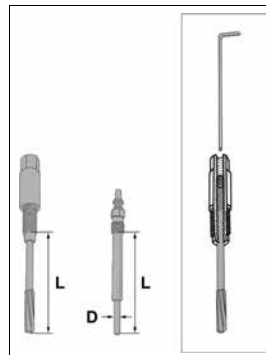
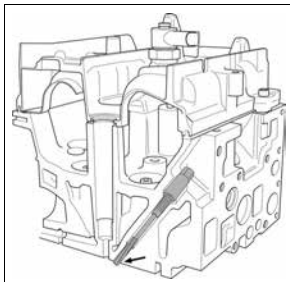
Designed to clean glow plug threads with dimensions M10x1.0 and M12x1.25.



## KL-0127-2207

### Screw Tap

Designed to clean spark plug threads with dimensions M14x1.25 and M18x1.5.



## KL-0369-25 KA

(Patented)

### Reamer Set (adjustable)

for Glow Plug Aperture, in a Plastic Storage Case

Universally suitable for use on Diesel engines with either an M8x1, M9x1 or M10x1 glow plug thread. The ideal tool set for BMW 1.6 and 2.0 Diesel engines. For example, fitted to BMW 1 Series (E81/E82/E87/E88), 3 Series (E90/E91/E92/E93), 5 Series (E60/E61/F10), X1 (E84), X3 (E83); MiniHatch (R56), Countryman (R60), Clubman (R55), Coupé (R58).

This tool set is designed to clean glow plug apertures and glow plug retaining threads. Thanks to the possibility to combine the different holders (glow plug retaining threads) with the necessary reamers (glow plug aperture Ø) and to precisely adjust the length of the reamers as needed, this tool set is virtually universal in its field of application, since the reamers can always be accurately adapted to the respective engine type. Coking deposits are carefully and effectively removed from glow plug retaining threads and glow plug apertures - thanks to the special design of the tool and the cleaning groove in the holder.

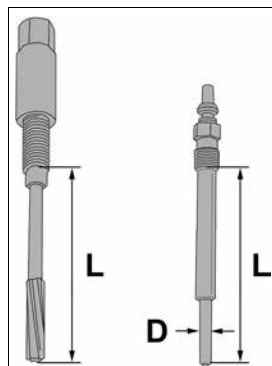
#### Technical Data:

Weight:	400g
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#### Scope of Delivery: KL-0369-25 KA Reamer Set (adjustable) for Glow Plug Aperture

Part No.	Description	Qty
KL-0369-2510 A	Holder, M8x1, with Set Screw	1
KL-0369-2610 A	Holder, M9x1, with Set Screw	1
KL-0369-2710 A	Holder, M10x1, with Set Screw	1
KL-0369-2512 A	Reamer, Ø 4.8mm (Glow plug Ø D = Ø 4.0mm)	1
KL-0369-2522 A	Reamer, Ø 5.2mm (Glow plug Ø D = Ø 4.4mm)	1
KL-0369-2732 A	Reamer, Ø 5.8mm (Glow plug Ø D = Ø 5.0mm)	1
KL-0369-2590	Plastic Storage Case	1

(Engine codes: N47; N47 C16K1; N47 C16U1; N47 C20K1; N47 C20U1; N47 D20A; N47 D20C; N47 D20D; N47 D20K0; N47 D20K1; N47 D20O0; N47 D20O1; N47 D20U0; N47 D20U1; N47S D20B; N47S D20D; N47S D20T0; N47T D20K1; N47T D20O1; N47T D20U1)



## KL-0369-251 A

(Patented)

### Reamer, Ø 4.8mm, with Holder, M8x1 (adjustable)

Suitable for use on the following Diesel engines: Fiat, Alfa Romeo, Lancia 2.3 JTD (F1AE0481C), 1.3 D/JTD (188A9.000, 169 A1.000, 188 A8.000, 188 A9.000, 199 A2.000, 199 A3.000, 199 A9.000, 199 B1.000, 199 B4.000, 223 A9.000, 263 A2.000); Opel/Vauxhall 1.3 (Z13DT, A13DTC, D13A, Y13DT, Z13DT, Z13DTH, Z13DTJ); Mercedes (OM642, OM640); Smart (OM639); Ford 1.3 TDCi (FD4); Volvo 2.4 D (D 5244 T2); VW AG 2.0 TDI (AZV, BKD, BDJ); PSA 2.7 HDI (DT 17) and Suzuki 1.3 DDiS (Z13DT, D13A, Z13DTJ).

#### Scope of Delivery: KL-0369-251 A Reamer, Ø 4.8 mm, with Holder, M8x1

Part No.	Description	Qty
KL-0369-2510 A	Holder, M8x1, with Set Screw	1
KL-0369-2512 A	Reamer, Ø 4.8mm	1

#### Technical Data:

Length L:	70-108mm
D measured (at the glow plug):	Ø 4.0mm

**KL-0369-252 A** (Patented)  
Reamer, Ø 5.2mm, with Holder, M8x1  
(adjustable)

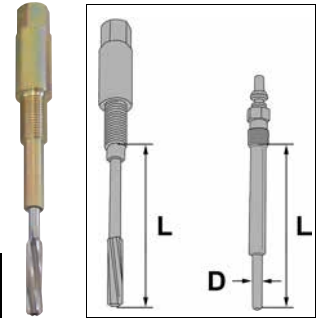
For example, suitable for use on the following Diesel engines: PSA 1.4 HDI (DV4), PSA 1.6 HDI (DV6), PSA 2.2 HDI (DW12), Ford 1.6 (F6J).

Scope of Delivery: KL-0369-252 A Reamer, Ø 5.2mm, with Holder, M8x1

Part No.	Description	Qty
KL-0369-2510 A	Holder, M8x1, with Set Screw	1
KL-0369-2522 A	Reamer, Ø 5.2mm	1

**Technical Data:**

Length L:	50-83mm
D measured (at glow plug):	Ø 4.4mm



**KL-0369-261 A** (Patented)  
Reamer, Ø 4.8mm, with Holder, M9x1  
(adjustable)

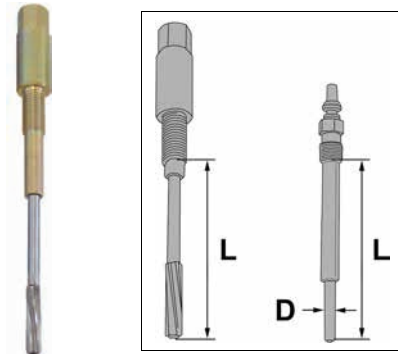
For example, suitable for use on the following Diesel engines: Alfa Romeo, Fiat, Lancia, Opel/Vauxhall, Saab 1.6, 1.9, 2.0 and 2.4. (Engine codes: 192 A5.000, 198 A2.000, 198 A3.000, 198 A5.000, 198 A6.000, 198 A8.000, 250 A1.000, 263 A1.000, 263 A3.000, 263 A4.000, 350 A2.000, 350 A2.000, 350 A3.000, 841 G.000, 841 H.000, 844 A1.000, 844 A2.000, 844 A2.000, 937 A5.000, 939 A2.000, 939 A3.000, 939 A8.000, 939 B3.000, 939 B4.000, 939 B5.000, 940 A3.000, 940 A4.000, 940 A5.000, 955 A3.000, 955 A4.000, A16FD, A16FDH, A16FDL, A19DTR, A20ATJ, A20DT, A20DTC, A20DTH, A20DTL, A20DTR, D20AA, Y20DTJ, Z19DTH, Z19DTR, Z20DTJ)

Scope of Delivery: KL-0369-261 A Reamer, Ø 4.8mm, with Holder, M9x1

Part No.	Description	Qty
KL-0369-2610 A	Holder, M9x1 with Set Screw	1
KL-0369-2512 A	Reamer, Ø 4.8mm	1

**Technical Data:**

Length L:	70-108mm
D measured (at glow plug):	Ø 4.0mm



**KL-0369-271 A** (Patented)  
Reamer, Ø 4.8mm, with Holder, M10x1  
(adjustable)

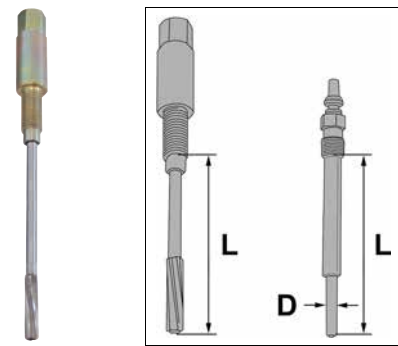
For example, suitable for use on the following VW-Audi Diesel engines: 2.7 TDI V6 (BPP, BSG), 3.0 TDI V6 (BKN, BKS, BMK, BNG, BUN, BUG); and BMW Diesel engines: 1.6 and 2.0. For example, fitted to BMW 1 Series (E81/E82/E87/E88), 3 Series (E90/E91/E92/E93), 5 Series (E60/E61/F10), X1 (E84), X3 (E83); MiniHatch (R56), Countryman (R60), Clubman (R55), Coupé (R58). (Engine codes: N47; N47 C16K1; N47 C16U1; N47 C20K1; N47 C20U1; N47 D20A; N47 D20C; N47 D20D; N47 D20K0; N47 D20K1; N47 D20O0; N47 D20O1; N47 D20U0; N47 D20U1; N47S D20B; N47S D20D; N47S D20T0; N47T D20K1; N47T D20O1; N47T D20U1)

Scope of Delivery: KL-0369-271 A Reamer, Ø 4.8mm, with Holder, M10x1

Part No.	Description	Qty
KL-0369-2710 A	Holder, M10x1, with Set Screw	1
KL-0369-2512 A	Reamer, Ø 4.8mm	1

**Technical Data:**

Length L:	60-105mm
D measured (at glow plug):	Ø 4.0mm



**KL-0369-272 A** (Patented)  
Reamer, Ø 5.2mm, with Holder, M10x1  
(adjustable)

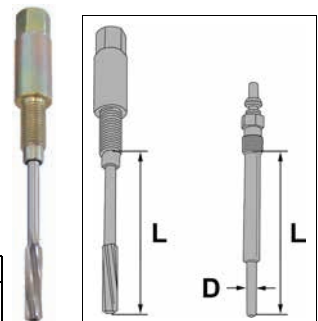
Suitable for use on the following Diesel engines: PSA 2.0 HDI (DW10 [110 bhp, 135 bhp]).

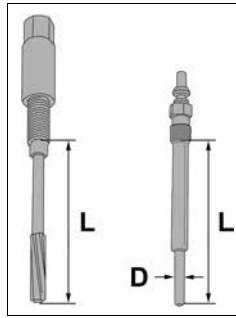
Scope of Delivery: KL-0369-272 A Reamer, Ø 5.2mm, with Holder, M10x1

Part No.	Description	Qty
KL-0369-2710 A	Holder, M10x1 with Set Screw	1
KL-0369-2522 A	Reamer, Ø 5.2mm	1

**Technical Data:**

Length L:	41-83mm
D measured (at glow plug):	Ø 4.4mm





### Technical Data:

Length L:	40-85mm
D measured (at glow plug):	Ø 5.0mm

## KL-0369-273 A

(Patented)

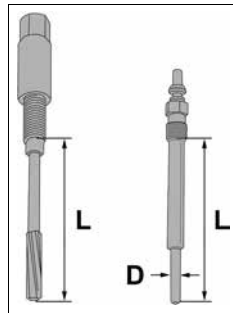
Reamer, Ø 5.8mm, with Holder, M10x1 (adjustable)

For example, suitable for use on the following Diesel engines: VW-Audi 2.5 TDI V6 (AKE, AKN, AYM, BAU, BCZ, BDG, BDH, BFC, AFB), 3.0 TDI V6 (ASB); Mercedes CDI (OM611, OM612, OM613, OM646, OM647, OM648, OM668), Alfa Romeo, BMW, Fiat, Lancia 1.9 JTD (182B4.000), 2.4 JTD (839A5.000).

### Scope of Delivery:

KL-0369-273 A Reamer, Ø 5.8mm, with Holder, M10x1 (adjustable)

Part No.	Description	Qty
KL-0369-2710 A	Holder, M10x1, with Set Screw	1
KL-0369-2732 A	Reamer, Ø 5.8mm	1



### Technical Data:

Length L:	40-85mm
D measured (at glow plug):	Ø 5.0mm

## KL-0369-274 A

(Patented)

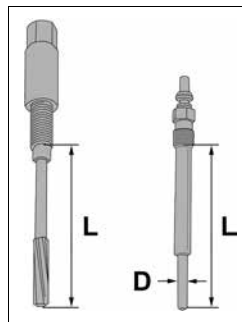
Reamer, Ø 5.8mm, with Holder, M10x1 (adjustable)

For example, suitable for use on the following Diesel engines: Alfa Romeo, Fiat, Lancia 1.9 JTD (AR32302, AR37101, 182B9.000, 186A6.000, 186A8.000, 186A9.000, 188A2.000, 188B2.000, 182B4.000, 192A3.000, 192A9.000, 192A1.000, 223A7.000, 937A2.000, 937A7.000, 939A1.000, 939A7.000) and 2.4 JTD (AR32501, 185A6.000, 838A8.000, 839A5.000, 839A6.000, 841C.000, 841G.000); Vauxhall/Opel 1.9 CDTi (Z19DT).

### Scope of Delivery:

KL-0369-274 A Reamer, Ø 5.8mm, with Holder, M10x1 (adjustable)

Part No.	Description	Qty
KL-0369-2740 A	Holder, M10x1, with Set Screw	1
KL-0369-2732 A	Reamer, Ø 5.8mm	1



### Technical Data:

Length L:	40-85mm
D measured (at glow plug):	Ø 5.0mm

## KL-0369-281 A

(Patented)

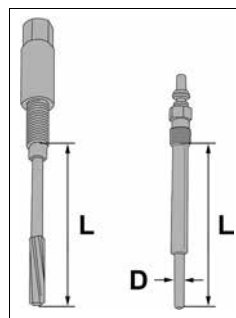
Reamer, Ø 5.8mm, with Holder, M10x1.25 (adjustable)

Suitable for use on the following Diesel engines as found in Opel/Vauxhall (4EE-2, A17DTJ, A17DTC, A17DTE, A17DTS, Y17DT, Y17DTL, Z17DTL, Y30DT, Z30DT); Ford (WL, WL-T); Honda (D4FA); Hyundai (D4FA); Kia (R2); Mini (1ND); Mazda (RF46, RF-N, RF-CX, RF OHC, MD25TI); Nissan (CD23, LD23, TD27T); Toyota (1ND, 1ND-TV).

### Scope of Delivery:

KL-0369-281 A Reamer, Ø 5.8mm, with Holder, M10x1.25 (adjustable)

Part No.	Description	Qty
KL-0369-2810 A	Holder, M10x1.25, with Set Screw	1
KL-0369-2732 A	Reamer, Ø 5.8mm	1



### Technical Data:

Length L:	40-85mm
D measured (at glow plug):	Ø 5.0mm

## KL-0369-291 A

(Patented)

Reamer, Ø 5.8mm, with Holder, M12x1.25 (adjustable)

Suitable for use on the following Diesel engines: Opel/Vauxhall 2.5 D/TD (8140.27.2500; 8140.27.2510; S9U 714; S84 770; 8140.67.2500; 8140.67.2550; 8140.67.2580; S8U 750; S8U 758; S8U 752; S8U 770; S8U 780; S8U 782) and Renault 1.9 D (F8Q 620; F8Q 624; F8Q 640; F8Q 682).

### Scope of Delivery:

KL-0369-291 A Reamer, Ø 5.8mm, with Holder, M12x1.25 (adjustable)

Part No.	Description	Qty
KL-0369-2910 A	Holder, M12x1.25, with Set Screw	1
KL-0369-2732 A	Reamer, Ø 5.8mm	1

## KL-0369-15

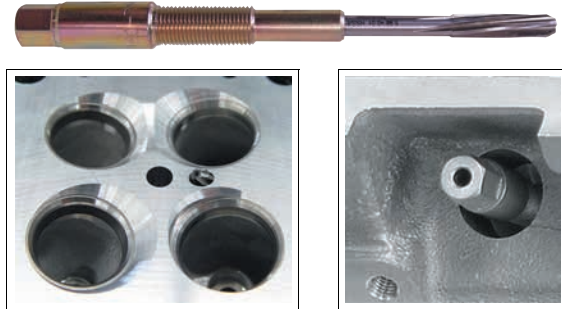
### Reamer

**Suitable for use on the Mercedes CDI engines OM611, OM612, OM613, OM628, OM646\*, OM647, OM648 etc. (\*not suitable for OM646 EVO) and Smart CDI engine (R660) with M10x1 glow plug thread.**

Used for cleaning the bore hole between the glow element and the combustion chamber. Important if the engine is difficult to start.

**Technical Data:**

Drive:	10mm
Reamer Ø:	6mm



## KL-0369-13

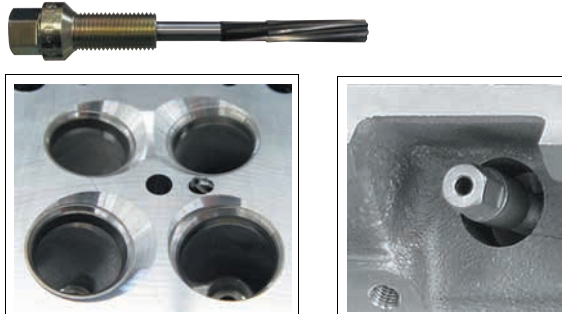
### Reamer for Glow Plug Channel

**Suitable for use on the Mercedes 4-valve engines OM604, OM605, OM606 with M12x1.25 glow plug thread size.**

This tool is designed to ream and clean the bore between the glow element and the pre-combustion chamber.

**Technical Data:**

Drive:	13mm
Reamer Ø:	7mm



## KL-0369-24

### Glow Plug Bore Cleaning Brush Set

**Universally suitable.**

**for Diesel engines having a glow plug bore thread M8x1, M10x1 or M10x1.25 and a glow plug channel Ø of 4mm, 4.4mm or 5mm.**

For cleaning the glow plug bore thread and the small aperture leading to the combustion chamber.



**Scope of Delivery: KL-0369-24 Glow Plug Bore Cleaning Brush Set**

Part No.	Description	Qty
KL-0369-2448	Glow Plug Bore Cleaning Brush, Ø 4.8mm	1
KL-0369-2452	Glow Plug Bore Cleaning Brush, Ø 5.2mm	1
KL-0369-2458	Glow Plug Bore Cleaning Brush, Ø 5.8mm	1
KL-0369-2468	Glow Plug Bore Cleaning Brush, Ø 6.8mm	1
KL-0369-2485	Glow Plug Bore Cleaning Brush, Ø 8.5mm	1

## KL-0369-18

### Glow Plug Connector Pliers (Straight Design)

**For example, suitable for use on Mercedes, BMW, VW-Audi etc.**

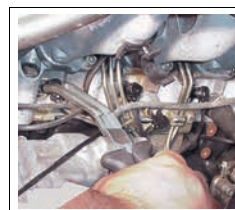
Designed to remove stubborn and hard-to-reach glow plug connectors installed on the latest-generation engines.



## KL-0369-19

### Glow Plug Connector Pliers (Angled Design)

Designed to remove stubborn and hard-to-reach glow plug connectors as installed on the latest-generation engines.



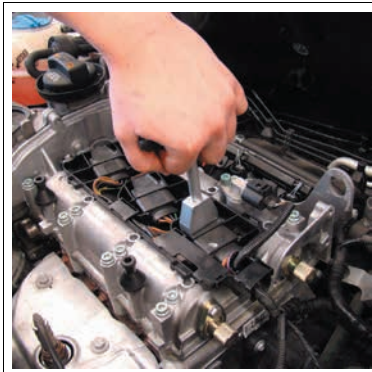
## KL-0193-10 A

### Pliers for Protection Cap

**Suitable for use on VW-Audi, Seat, Škoda vehicles equipped with 2.0 Common Rail Diesel engines. (Engine codes: DBAA, CBAB, CBBA, CDBD, CBDC, CBAC, CBDA)**

Intended for the removal of stuck and hard-to-reach glow plug connectors.





## KL-0127-800 K Ignition Coil Puller Set (4-piece)

**Suitable for use on VW/Audi petrol injection engines.**

These tools are used to remove and install ignition coils with final output stage on VW/Audi petrol injection engines.

**Scope of Delivery:**

**KL-0127-800 K Ignition Coil Puller Set (4-piece)**

Part No.	Description	Qty
KL-0127-81	Ignition Coil Puller	1
KL-0127-82	Ignition Coil Puller	1
KL-0127-83	Ignition Coil Puller	1
KL-0127-84	Ignition Coil Puller	1
KL-0127-8090	Plastic Storage Case	1

## KL-0127-81 Ignition Coil Puller

**Suitable for use on 1.4 and 1.6 16V petrol injection engines.**

**Engine codes: AZD, BCA, BCB; e.g. in VW Bora, Golf, New Beetle etc.**

This tool is used to remove and install ignition coils with final output stage on VW/Audi petrol injection engines.

**Technical Data:**

Length:	137mm
Weight:	145g
Opening width:	26.3mm

## KL-0127-82 Ignition Coil Puller

**Suitable for use on 6-cylinder (4V) and 5-cylinder petrol injection engines as found in VW Bora, Golf, Passat, Sharan, Touareg, Phaeton and T5.**

This tool is used to remove and install ignition coils with final output stage on VW/Audi petrol injection engines.

**Technical Data:**

Length:	134mm
Weight:	130g
Opening width:	18mm

## KL-0127-83 Ignition Coil Puller

**Suitable for use on 1.8 Turbo petrol injection engines.**

**Engine codes: ARZ, AQA, AUM, AUQ; e.g. Audi A3, TT and VW Bora, Golf etc.**

This tool is used to remove and install ignition coils with final output stage on VW/Audi petrol injection engines.

**Technical Data:**

Length:	50mm
Weight:	85g
Opening width:	38mm

## KL-0127-84 Ignition Coil Puller

**Suitable for use on 8- and 12-cylinder petrol injection engines as found in VW Passat and Phaeton.**

This tool is used to remove and install ignition coils with final output stage on VW/Audi petrol injection engines.

**Technical Data:**

Length:	118mm
Weight:	134g
Opening width:	35.5mm

6



## KL-0127-86

### Ignition Coil Puller

Suitable for use on VW-Audi, Seat and Škoda 1.2, 1.4, 1.8, as well as 2.0 FSI / TSI / TFSI petrol engines as fitted to: VW Beetle (5C), Eos (1F), Golf SV/Sportsvan (AM), Golf VI (5K, AJ), Golf VII (5G, BE, BA), Jetta (162), Passat VI (36), Passat CC (357), Polo V (6R, 6C), Sharan (7N), Tiguan (5N); Audi A1 (8X), A3 (8P), Q3 (8U), TT (8J); Seat Alhambra (71), Leon (5F); Škoda Octavia II (1Z), Octavia III (5E), Superb II (3T) etc. (Engine codes: CHPA, CHZD, CJSB, CJXB, CJXC, CJZA, CJZB, CMBA, CPTA, CPVA, CPVB, CPWA, CUKA, CUKB, CWVA, CXCA, CXSA, CXSB, CYVA, CYVB, CZCA, CZDA, CZEA, CCZA, CHPA, CJSB, CJZA, CJZB, CMBA, CPTA, CPVA, CPVB, CPWA, CXSA, CYVA, CYVB, CZDA, CZEA)

This tool is designed to remove and install ignition coils with final output stage.



## KL-0127-41

### Spark Plug Socket, Size (waf) 14mm

Suitable for use on Renault Clio 1.2 16V; Twingo 1.2 16V etc.

**Technical Data:**

Size (waf):	14mm
Drive:	3/8"
Length:	230mm



## KL-0127-42

### Jointed Spark Plug Socket, Size (waf) 14mm

Suitable for Renault Clio 1.2 16V; Twingo 1.2 16V etc.

**Technical Data:**

Length:	80mm
Socket size:	14mm
Drive:	3/8"
Weight:	100g



## KL-0127-43

### Spark Plug Socket, Size (waf) 14mm

Suitable for use on BMW 3 Series (E90 [N53B]); Citroën C5 (HPI); Peugeot 207 (1.6 16V), 406 (HPI); Mini One (1.4) etc.

**Technical Data:**

Length:	90mm
Size (waf):	14mm
Drive:	3/8"



## KL-0127-44

### Spark Plug Socket, Size (waf) 14mm

Suitable for Citroën C5 (HPI); Peugeot 207, 308 (1.6 16V); 406 (HPI); Mini One 1.4 etc.

**Technical Data:**

Length:	250mm
Size (waf):	14mm
Drive:	3/8"



**Accessories (on demand):**

3093 U-20 CODE:1556800 - Reversible ratchet 3/8" 200mm

4549-05 CODE:1545140 - Torque Wrench TORCOFIX K 3/8" 5-50Nm





**Technical Data:**

Length:	92mm
Size (waf):	14mm
Drive:	3/8"

## KL-0127-48

### Spark Plug Socket with Joint, Size (waf) 14mm

Universally suitable for use on spark plugs having a 14 mm hex and bi-hex profile.

Essential tool for BMW vehicles equipped with an N43 engine; e.g. BMW 1 Series (E81 / E87 [N43B]), 3 Series (E90 [N43B]) and 5 Series (E60 [N43B]); etc.

This tool is designed for the removal and installation of spark plugs having a bi-hex profile size (waf) of 14mm. The swivel head allows for easy access also to spark plugs that are difficult to reach. The socket features a rubber insert ensuring firm grip and safe retention of the spark plug, thus facilitating greatly their installation.



3/8"

## KL-0127-45

### Spark Plug Socket, Size (waf) 16mm

**Technical Data:**

Length:	90mm
Size (waf):	16mm
Drive:	3/8"



3/8"

## KL-0127-46

### Spark Plug Socket, Size (waf) 16mm

**Technical Data:**

Length:	250mm
Size (waf):	16mm
Drive:	3/8"

6



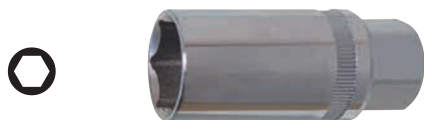
3/8"

## KL-4015-2016

### Spark Plug Socket, Size (waf) 16mm

**Technical Data:**

Length:	65mm
Size (waf):	16mm
Drive:	3/8"



3/8"

## KL-4015-2021

### Spark Plug Socket, Size (waf) 21mm

**Technical Data:**

Length:	65mm
Size (waf):	21mm
Drive:	3/8"

**Accessories (on demand):**

3093 U-20 CODE:1556800 - Reversible ratchet 3/8" 200mm



4549-05 CODE:1545140 - Torque Wrench TORCOFIX K 3/8" 5-50Nm



## KL-0127-7 Spark Plug Connector Pliers

**Applicable to VW, Audi, Opel/Vauxhall, Porsche etc.**

Forged and with offset jaws for pulling off and putting on spark plug connectors, specifically designed for heat protection connectors.



## KL-0127-5 Spark Plug Connector Pliers

**Applicable to virtually any vehicle.**

With 30° angled sleeve jaws, designed for the careful and safe removal of spark plug connectors having a silicon coating.



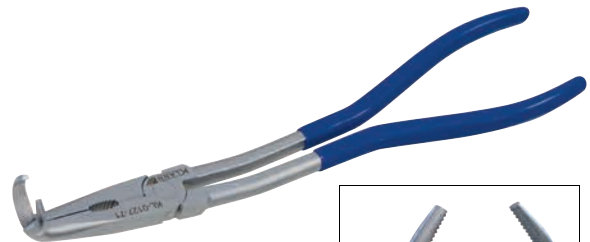
## KL-0127-71 Spark Plug Connector Pliers

**Universal application. The ideal tool for Ford vehicles.**

Forged and with offset gripping jaws (curved at 87°) for pulling off or putting on spark plug connectors, specifically designed for heat protection connectors.

**Technical Data:**

Length:	250mm
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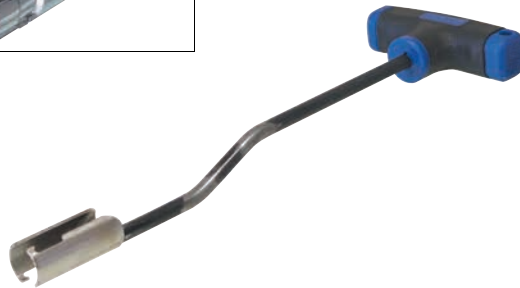
## KL-0127-6 Spark Plug Connector Pliers

**Applicable to virtually any vehicle.**

The pliers feature 10° angled, long clamping jaws. Grooves in the jaws prevent the pliers from slipping off. Long pliers shanks enable also deep-seated spark plug connectors to be pulled off, and additionally offer extended safety distance to the hot engine.







## KL-0127-92

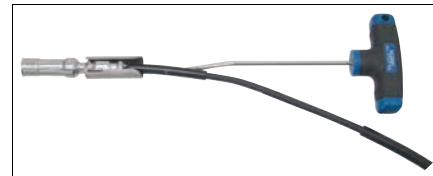
### Spark Plug Connector Puller

Applicable to metal spark plug connectors on VW-Audi, Mercedes, Smart etc.

Indispensable tool for removing and installing hard-to-reach spark plug connectors.

**Technical Data:**

Length:	300mm
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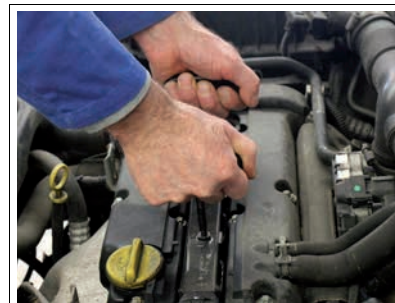


## KL-0127-85

### Ignition Module Remover (2-pc.)

Suitable for use on Opel/Vauxhall 3- and 4-cylinder fuel injection petrol engines as installed in: Opel/Vauxhall Agila-A, Astra-F, Astra-G, Astra-H, Astra-J, Calibra, Combo, Corsa-B, Corsa-C, Corsa-D, Frontera-A, Frontera-B, Insignia, Meriva-A, Meriva-B, Omega-B, Signum, Tigra-A, Tigra-B, Vectra-B, Vectra-C, Zafira-A, Zafira-B. (Engine codes: LDD, LDE, LLU, LUH, LUJ, 2HO, A10XEP, A14NEL, A14NET, A14XER, X14NZ, X14SZ, X14XE, A16LET, A16XER, X16SZR, X16XE, X16XEL, A18XER, X18XE, X20SE, X20XEV, X22SE, X22XE, Y22SE, Z10XEP, Z12XE, Z12XEP, Z14XE, Z14XEL, Z14XEP, Z16LEL, Z16LER, Z16LET, Z16XE, Z16XER, Z16YNG, Z18XE, Z18XER, 20LEH, Z20LER, C22SEL)

Designed to remove/put back in place the ignition module found on Opel/Vauxhall fuel injection petrol engines.



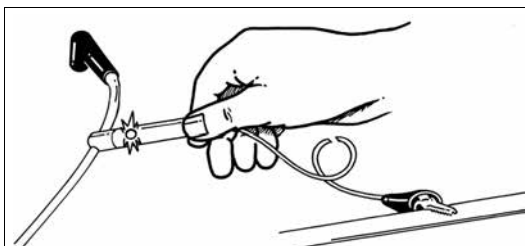
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## KL-0127-39

### Ignition Wire Tester

Allows you to quickly locate faulty ignition wires.

In order to check the ignition wire, the tester is placed directly on the insulation. Enables testing the ignition wire without having to pierce the insulation. Thus, contact with the current-carrying lead is eliminated. Light flashes indicate correct functioning of the ignition wire.



**Technical Data:**

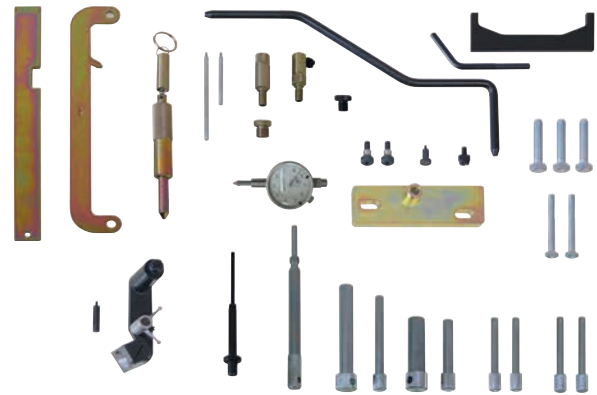
Weight:	85g
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## KL-0180-106 K Locking Tool Set

Universally applicable, e.g. to:

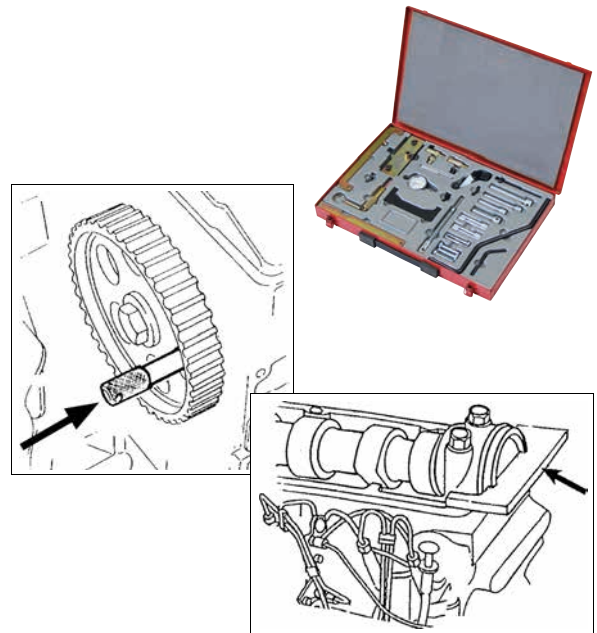
- Audi: 1.9 ID / TDI (1Y, 1Z, AAZ, AHU, AFN, AFF & AVG engines)
- Citroën/Peugeot: 1.4 D, 1.7 D / TD, 1.8 D / TD, 1.9 D / TD, 2.1 and 2.2 I TD (TUD & XUD engines)
- Fiat/FSO: 1.9 D / TD (PSA engines)
- Ford: 1.6 D, 1.8 D / TD (88-02), 1.9 TDi (-00); LDV /Mazda: (PSA & Ford engines)
- Rover: Metro, 114D, 218/418SD, Maestro & Montego 2.0 D
- Seat: 1.3 D, 1.4 D, 1.7 Sdi, 1.9 D Turbo, 1.9 SDi / TDi (MN, 1W, AAZ, AEY, AFN, AHU, AKW & AVG engines)
- Škoda: Felicia 1.9 D (AEF engine)
- Vauxhall/Opel: 1.6 D, 1.7 D / DR / DTL+ Isuzu engines 1.5 D - 3.1 TD
- Volkswagen: 1.6 D, 1.7 D, 1.9 DT, 1.9 SDI / Tdi and 2.4 D (MN, 1W, 1Y, 1Z, AEY, AFN, AHB, AHU, AKW, ALE, AHH, AZZ, AVG, ACL and ACT engines)
- Volvo: 240, 740, 760, 940, 960D / Turbo
- Bosch VE, Diesel Kiki, Nippondenso and CAV/ RotoDiesel injection pumps.

Very useful tool set for locking/positioning engine shafts such as camshaft, crankshaft and injection pump shaft, as well as for adjusting the injection pump.



### Scope of Delivery: KL-0180-106 K Locking Tool Set

Part No.	Description	Qty
KL-0129-210	Adjustment Tool for Bosch VE Injection Pump	1
KL-0482-210	Camshaft Setting Plate	1
KL-0129-200	Adjustment Tool Kit for Lucas CAV Injection Pump	1
KL-0680-15 A	Setting Gauge for Camshafts	1
KL-0481-8	TDC-Setting Tool for Crankshaft/Flywheel	1
KL-0481-9	Locking Pin for Crankshaft	1
KL-0128-0	Dial Gauge, Ø 40mm	1
KL-1480-15	Locking Pin, angled, Ø 7.8mm	1
KL-1480-11	Locking Pin, angled, Ø 6mm	1
KL-1480-18 S	Hex Bolt, M8x40 (3 units)	1
KL-0481-611	Hex Bolt, M6x50 (2 units)	1
KL-0280-9	Setting Gauge	1
KL-0680-10	Locking Pin for Crankshaft, long	1
KL-0680-14 A	Locking Pin, Ø 6mm (2 pcs.)	1
KL-1780-101	Locking Pin, Ø 6.6mm (2 pcs.)	2
KL-0680-12 A	Locking Pin, Ø 9.5mm	1
KL-0280-801	Locking Pin, Ø 15.5mm	1
KL-0680-111	Locking Pin, Ø 8.3mm	1
KL-0680-131	Locking Pin, Ø 12.7mm	1
KL-0180-1069	Storage Case with Insert	1



6

## KL-0129-1 A Tool Set for Fuel Injection Pump

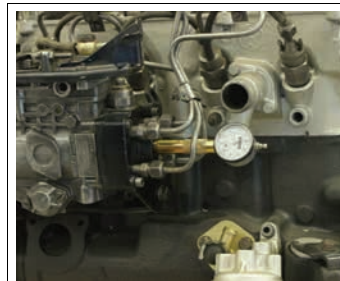
The **KL-0129-1 A** tool set is designed to adjust the **BOSCH VE fuel injection pump** found in Diesel vehicles.

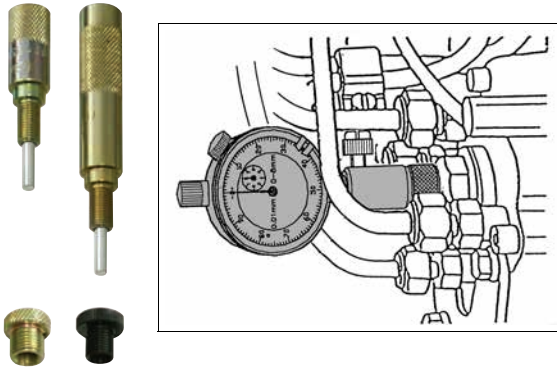
### Advantages:

- Accurate adjustment of the BOSCH VE injection pump.
- Tool is easy to use.
- Suitable for use on all the Diesel vehicles equipped with a BOSCH VE fuel injection pump.

### Scope of Delivery: KL-0129-1 A Tool Set for Fuel Injection Pump

Part No.	Description	Qty
KL-0129-10	Adaptor, 35mm, M8x1	1
KL-0129-11	Adaptor, 65mm, M8x1	1
KL-0129-12	Adaptor, 120mm, M8x1	1
KL-0129-13	Adaptor, M12x1.25, for VW-Audi TDI	1
KL-0129-14	Adaptor, 85mm, M10x1	1
KL-0128-0	Dial Gauge, Ø 40mm	1
KL-0280-8	Locking Pin, Ø 15.5mm	1
KL-0280-9	Setting Gauge	1
KL-0129-1020	Plastic Storage Case	1





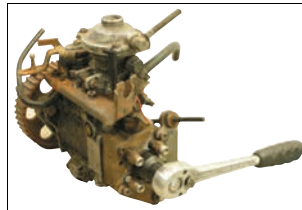
## KL-0129-210 A Adjustment Tool for Bosch VE Diesel Injection Pump

**Suitable for use on Bosch VE injection pumps.**

Designed to adjust the start-of delivery-setting of Diesel injection pumps. For example, included in tool set **KL-0180-106 K**.

**Scope of Delivery: KL-0129-210 A Adjustment Tool**

Part No.	Description	Qty
KL-0129-10	Adaptor, 35mm	1
KL-0129-11	Adaptor, 65mm, M8x1	1
KL-0129-13	Adaptor, M12x1.25	1
KL-0129-2105 A	Adaptor, M10x1 to M8x1	1



### Technical Data:

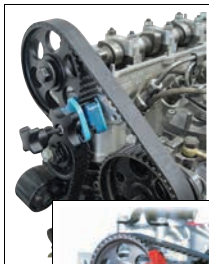
Size (waf):	24mm
Length:	38mm
Drive:	1/2"
Weight:	130g

## KL-0129-22 Socket (3-point), 24mm (waf), for VE-Injection Pump

**Suitable for use on VE Diesel injection pumps, for example Bosch, Delphi etc.**

Designed for the removal and installation of the distributor plunger screw plug on the high-pressure pump.

6



## KL-0180-2 K (Universal) Locking Tool Set 'Multi-/Uni-Lock'

Universally applicable tool set for locking timing belt sprockets such as camshaft sprockets (TwinCam and single camshaft engines) injection pump sprockets, etc.

**Scope of Delivery: KL-0180-2 K Locking Tool Set 'Multi-/Uni-Lock'**

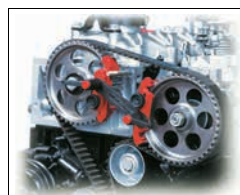
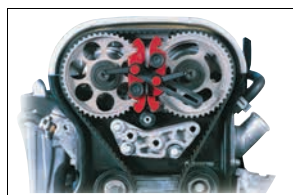
Part No.	Description	Qty
KL-0180-20	Locking Tool	1
KL-0180-201 A	Rail (extended design)	1
KL-0180-21	Locking Tool	1
KL-0180-2090	Storage Case	1

## KL-0180-20 Locking Tool

**Universally adjustable and applicable tool. Suitable for use on timing belt sprockets with a clearance of approximately 5-60mm.**

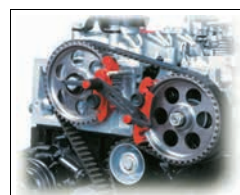
Intended for use on TwinCam engines (e.g. Citroën, Fiat, Ford, Honda, Hyundai, Lancia, Mazda, Mitsubishi, Nissan, Opel/Vauxhall, Peugeot, Renault, Rover, Saab, Subaru, Toyota, Volvo etc.) and on Diesel engines for locking the camshaft relative to the injection pump sprocket (e.g. VW-Audi, Ford, Seat, Škoda, etc.).

Simply insert the **KL-0180-20** locking tool into the engine shaft timing belt sprockets to ensure their correct position relative to the crankshaft when replacing a timing belt or performing an engine repair.



## KL-0180-201 A Rail (extended design)

Designed to be used with the **KL-0180-20** locking tool on timing belt sprockets with a clearance of approx. 60-125mm; e.g. when locking the injection pump sprocket relative to the camshaft.



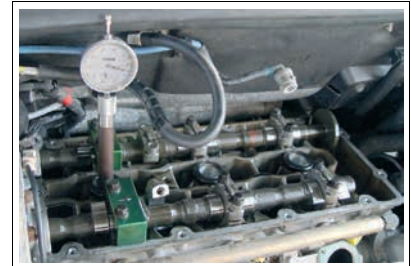
## KL-1681-11 K

### TDC Position Tool Kit,

VW-Audi/Seat/Škoda/Alfa Romeo/Fiat/Porsche

Universally applicable to vehicles with either an M12x1.25 or M14x1.25 spark plug thread; such as VW Eos, Golf, Jetta, Passat, Polo, Scirocco, Sharan, Tiguan, Touran; Audi A1, A3; Seat Alhambra, Altea, Cordoba, Ibiza, Leon, Toledo; Škoda Fabia, Octavia, Roomster, Superb, Yeti; Alfa Romeo 147, 156, 166, GT, GTV, Spider; Fiat Doblo, Fiorino, Marea, Multipla, Palio, Panda, Punto, Qubo, Stilo; Lancia Lybra, Thesis. (Engine codes: 161.05, 182B6.000, 183A1.000, 185A8.000, 188A4.000, 192A2.000, 322.05, 324.05, 361.01, 362.01, 839A7.000, 841A.000, 841D.000, 841E.000, 841L.000, 932A.000, 932A2.000, 936A.000, 936A6.000, 937A1.000, AXU, BAG, BKG, BLF, BLG, BLN, BLP, BMY, BTS, BWK, CAVA, CAVB, CAVC, CAVD, CAVE, CAVF, CAVG, CAXA, CAXC, CDGA, CKMA, KFT, Kfv)

This tool is necessary to determine the TDC position on No.1 cylinder.



#### Scope of Delivery: KL-1681-11 K TDC Position Tool Kit

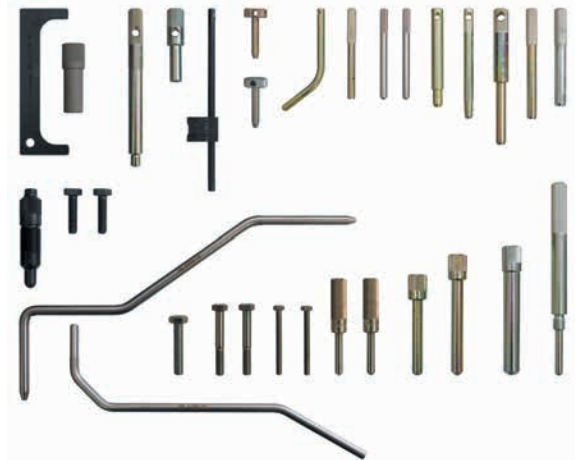
Part No.	Description	Qty
KL-1681-111	Adaptor, M14x1.25, for TDC Positioning	1
KL-1681-112	Adaptor, M12x1.25, for TDC Positioning	1
KL-0128-0	Dial Gauge, Ø 40mm	1
KL-1681-1190	Plastic Storage Case	1

## KL-0180-100 KA

### Universal Locking Pin Set for Engine Shafts (in a Storage Case)

Applicable to: VW-Audi, BMW, Citroën, Ford, Peugeot, Renault, etc.  
Designed for the locking of engine shafts.

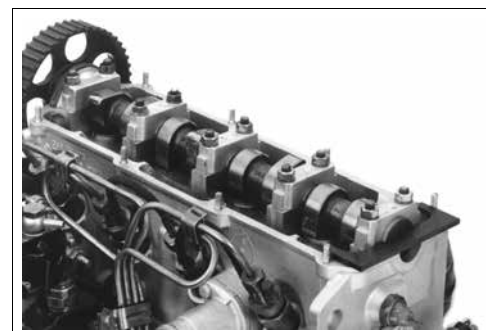
Indispensable tool set when replacing the timing belt, removing or installing the injection pump, etc. (correct timing). In order to obtain correct positioning of engine shafts such as camshaft and pump shaft relative to the crankshaft, it is decisive to insert the correct locking pins into the crankcase, camshaft sprocket, injection pump sprocket and flywheel, as well as to insert the KL-0280-9 setting gauge into the camshaft slot. Only this way can optimum engine power be achieved and damage to the engine prevented.



6

#### Scope of Delivery: KL-0180-100 KA Universal Locking Pin Set

Part No.	Description	Qty
KL-0280-10	Locking Pin, (Audi V6)	1
KL-0280-8	Locking Pin, Ø 15.5mm (VW-Audi, Seat)	1
KL-0280-9	Setting Gauge (VW-Audi, Seat)	1
KL-0580-10	Locking Pin, Ø 11.8/8mm (BMW)	1
KL-0580-11	Locking Pin, Ø 9.9mm (BMW)	1
KL-0680-10	Locking Pin for Crankshaft (Ford)	1
KL-0680-11 A	Locking Pin, Ø 8.3mm (Renault, Ford)	1
KL-0680-12 A	Locking Pin, Ø 9.5mm (Ford)	1
KL-0680-13 A	Locking Pin, Ø 12.9mm (Ford)	1
KL-0680-14 A	Locking Pin, Ø 6mm (Ford)	2
KL-1280-10	Locking Pin, Ø 8/12mm (Renault)	1
KL-1280-11	Hex Screw, M5x50 (Renault)	2
KL-1280-12	Hex Screw, M7x50 (Renault)	3
KL-1380-10	Locking Pin A, Ø 8mm (Peugeot)	1
KL-1380-11	Locking Pin B, Ø 9.5mm (Peugeot)	1
KL-1380-12	Locking Pin C, Ø 6mm (Peugeot)	1
KL-1382-1	Adjuster for Timing Belt Tensioner (Peugeot)	1
KL-1480-10	Locking Pin (angled), Ø 6.8mm (Peugeot)	1
KL-1480-11	Locking Pin (angled), Ø 6mm (Peugeot)	1
KL-1480-12	Locking Pin, Ø 6mm, short (Peugeot)	2
KL-1480-13	Locking Pin, M8/Ø 6.7mm, (Citroën, Peugeot)	1
KL-1480-14	Locking Pin, Ø 10/8mm (Peugeot)	1
KL-1480-15	Locking Pin (angled), Ø 7.8mm (Citroën, Peugeot)	1
KL-1480-16	Locking Pin, Ø 6mm, long (Peugeot)	2
KL-1480-17	Hex Screw, M8x30mm (Peugeot)	2
KL-1480-18	Hex Screw, M8x40mm (Peugeot)	1
KL-0180-1020	Plastic Storage Case	1





## KL-0180-30 B

### Retaining Pin Set, Ø 0.8-2.6mm

**Universally applicable to VW-Audi, Seat, Škoda; Ford, Opel/Vauxhall, Mitsubishi, Chevrolet, Peugeot, Saab, Suzuki, Volvo, etc.**

Designed to lock the automatic timing belt tensioner when replacing a timing belt.

**Consists of:**

Key fob with ring and 8x retaining pins with Ø 0.8mm; Ø 1.2mm; Ø 1.4mm; Ø 1.5mm; Ø 1.7mm; Ø 1.9mm, Ø 2.4mm, Ø 2.6mm.



## KL-0180-3030 Retaining Pin, Ø 3.0mm

**Universal application.**

Can be used, for example, for locking the automatic timing belt tensioner when replacing a timing belt.



## KL-0180-3033 Retaining Pin, Ø 3.3mm

**Universal application.**

Can be used, for example, for locking the automatic timing belt tensioner when replacing a timing belt.



## KL-0183-21

### Belt Mounting Tool

**Universal application.**

This tool is essential for the easy and trouble-free positioning of a V-ribbed belt on the pulleys. Specifically designed for use in confined spaces.

**Technical Data:**

Overall length:	720mm
Weight:	330g

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## KL-0180-105 KA

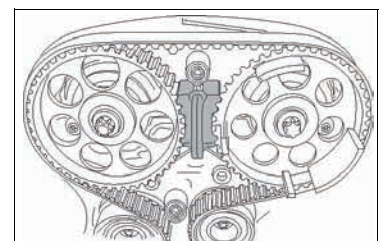
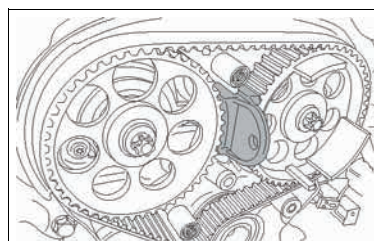
### Locking Tool Set, Ford / Honda / Land Rover / Mazda / Rover/Opel/Vauxhall 16V

Suitable for use on the 1.25, 1.4, 1.6, 1.7, 1.8, 2.0, 2.2 and 2.3 16V TwinCam (DOHC) petrol engines as fitted to: Ford (Zetec) Fiesta, Puma & Focus (1.25, 1.4 1.6 and 1.7 16V), Escort/Orion (1.6i and 1.8i), Mondeo (1.6, 1.8 and 2.0 16V [-98]); Honda Civic, Accord, Prelude, Integra & Shuttle (1.6, 2.0, 2.2 and 2.3); Land Rover Discovery (2.0 MPI), Freelander (1.8i 16V); Mazda 121 (1.25 16V); Rover Metro, Gta/Gti, 114, 214, 216, 218, 414, 416, MGF, 220, 420, 618, 620, 623, 820/Vitesse (92-), 25, 45; Vauxhall/Opel (EcoTec) Corsa, Tigra, Meriva, Astra, Cavalier, Calibra, Vectra, Omega, Frontera & Sintra (1.4, 1.6, 1.8, 2.0 and 2.2 16V).

Designed for the locking/positioning of camshaft, balance shaft and crankshaft. An indispensable tool set when replacing a timing belt or performing an engine repair.

**Scope of Delivery: KL-0180-105 KA Locking Tool Set**

Part No.	Description	Qty
KL-0680-15 A	Setting Gauge for Camshafts	1
KL-1780-105 A	Locking Tool for Camshafts	1
KL-1780-106 A	Locking Tool for Camshafts	1
KL-0482-313 A	Locking Tool for Camshafts	1
KL-0482-314 A	Locking Tool for Camshafts	1
KL-0482-301	Locking Tool for Camshafts	1
KL-0482-302	Locking Tool for Camshafts	1
KL-0680-17	Locking Pin for Crankshaft	1
KL-1380-2213 A	Locking Pin, Ø 4.9mm	2
KL-1780-103 A	Locking Pin, Ø 6.7mm	2
KL-1780-107 A	Locking Pin, Ø 8mm	1
KL-4990-2001	Plastic Storage Box, 53x107x1mm	1
KL-4990-1103	Plastic Storage Case	1



## Mobile Modular Workstation „MODULO Engine“

Universally suitable for repairs to petrol and Diesel engines as found in passenger cars.

The following example of the Mobile Modular Workstation „MODULO Engine“ shows the ideal composition of tool modules for the mobile workplace with all the tools needed to ensure fast, organised and cost-effective repairs and maintenance work to engines can be carried out. This versatile „MODULO Engine“ comes equipped with tool kits for stuck injector nozzles, broken-off glow plugs and damaged spark plug threads. The modules also include timing/locking tools both for chain-driven and belt-driven engines, alternator combination sockets, counter-holding tools etc.

### Possible equipment of the: Mobile Modular Workstation "Modulo Engine"

Part No.	Description	Qty
KL-0132-56 E	Glow Plug Tool Set (Universal), in a Foam Insert	1
KL-0184-011 E	Counter-Hold Tool Kit, in a Foam Insert	1
KL-0186-14 E	Injector Nozzle Puller Set (Universal), in a Foam Insert	1
KL-0186-141 E	Injector Nozzle Puller Upgrade Kit, in a Foam Insert	1
KL-0186-142 E	Hydraulic Cylinder 17t (Short Design), with Pull Spindles	1
KL-0284-184 E	Alternator and Belt Tool Set, in a Foam Insert	1
KL-0369-34 E	Glow Plug Tool Upgrade Kit, Mercedes, in an Foam Insert	1
KL-4999-1202	Drawer Divider, 100mm (with Rivets)	2
KL-4999-1203	Drawer Divider, 60mm (with Rivets)	2
KL-4999-121	Workshop Trolley/Workbench (without tools)	1



## KL-0280-701 K

### Locking Tool Set, VW 1.2, 1.4, 1.6, 1.9 TDI

Applicable to VW-Audi, Seat, Škoda and Ford vehicles equipped with either a 1.2, 1.4, 1.6 or 1.9 Common Rail or Pumpe-Düse (unit injector) Diesel engine such as VW Lupo, Polo, Fox, Golf, Passat; Audi A1, A2, A3; Seat Arosa, Ibiza, Cordoba; Škoda Fabia II, Roomster, Praktik; Ford Galaxy etc.  
(Engine codes: AMF, ANU, ANY, ASZ, ASZ1, ATL, AUY, AYZ, BAY, BHC, BMS, BNM, BNV, BWB, CAYA, CAYB, CAYC, CAYD, CAYE, CFWA)

Designed for the locking/positioning of engine shafts such as camshaft, injection pump shaft and crankshaft. The kit also includes tools to lock/position and adjust the timing belt tensioner.

An indispensable tool set when replacing a timing belt or performing an engine repair.

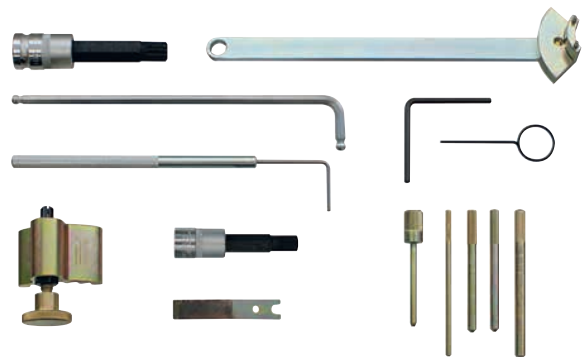
#### Scope of Delivery:

#### KL-0280-701 K Locking Tool Set, VW 1.2, 1.4, 1.6, 1.9 TDI

Part No.	Description	Qty
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-0280-16	Holding Tool	1
KL-0280-19	Locking Tool	1
KL-0280-2201 A	Locking Pin (angled), Ø 2.5mm	1
KL-0280-2202 A	Special Hexagon Socket Key, (waf) 6mm	1
KL-0280-222	Locking Pin (angled), Ø 4mm	1
KL-0280-2501	Locking Pin, Ø 4.4mm	1
KL-0280-6101	Locking Pin, Ø 4mm	1
KL-0280-6102	Locking Pin, Ø 7mm	1
KL-0284-91 A	Adjustment Tool for Timing Belt Tensioner, 240mm	1
KL-1480-16	Locking Pin (long), Ø 6mm	2
KL-4031-3610	Screw Driver Bit Socket, XZN-M10	1
KL-4031-3114	Screw Driver Bit Socket, XZN-M14, 100mm	1
KL-0280-7029	Plastic Storage Case	1



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#### Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



DMK 200 CODE:2641240 - Torque Wrench Dremaster 40-200Nm





(Engine codes: AJM, AMF, ANU, ANY, ARL, ASZ, ASZ1, ATD, ATL, AUY, AVB, AVF, AVQ, AWX, AXB, AXC, AXR, AYZ, AZV, BAY, BDJ, BDK, BGW, BHC, BHW, BJB, BKC, BKD, BKE, BKP, BLB, BLS, BLT, BMA, BMM, BMN, BMP, BMR, BMS, BMT, BNA, BNM, BNV, BPW, BPX, BPZ, BRB, BRC, BRD, BRE, BRF, BRM, BRR, BRS, BRT, BRU, BSS, BST, BSU, BSV, BSW, BTB, BUK, BUY, BUZ, BVA, BVA, BVE, BVF, BVG, BVH, BVK, BWB, BWV, BXE, BXF, BXJ, CAAA, CAAB, CAAC, CAGA, CAGB, CAGC, CAHA, CAHB, CAYA, CAYB, CAYC, CAYD, CAYE, CBAA, CBAB, CBAC, CBBA, CBBB, CBDA, CBDB, CBDC, CCHA, CDBA, CDCA, CEGA, CFCA, CFFA, CFFB, CFFD, CFFE, CFGB, CFHA, CFHB, CFHC, CFHD, CFHE, CFHF, CFJA, CFWA, CGLA, CGLB, CGLC, CGLD, CJAA, CJCA, CJCB, CKTB, CKTC, CKUB, CKUC, CLCA, CLCB, CLJA, CLLA, CMEA)

## KL-0280-702 K

### Locking Tool Set, VW 1.2-2.0 TDI

Applicable to VW-Audi, Seat, Škoda and Ford vehicles equipped either with a 1.2, 1.4, 1.6, 1.9 or 2.0 Common Rail or Pumpe-Düse (unit injector) Diesel engine. Engines fitted to: VW Beetle, Caddy, Crafter, Fox, Golf, Jetta, Lupo, Passat, Polo, Scirocco, Sharan, Tiguan, Touran, Transporter T5; Audi A1, A2, A3, A4, A5, Q5, A6, TT; Seat Alhambra, Altea, Arosa, Exeo, Ibiza, Leon, Toledo; Škoda Fabia, Fabia II, Octavia II, Roomster, Superb, Superb II, Yeti and Ford Galaxy etc.

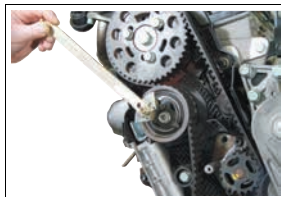
Designed for the locking/positioning of engine shafts such as camshaft, injection pump shaft and crankshaft. The kit also includes tools to lock/position and adjust the timing belt tensioner.

An indispensable tool set when replacing a timing belt or performing an engine repair.

#### Scope of Delivery: KL-0280-702 K Locking Tool Set, VW 1.2-2.0 TDI

Part No.	Description	Qty
KL-0149-131	Pin-Type Face Spanner, Ø 14-100mm, pin Ø 5mm	1
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-0280-16	Holding Tool	1
KL-0280-19	Locking Tool	1
KL-0280-20	Locking Tool, 2.0 TDI, PD	1
KL-0280-2201 A	Locking Tool (angled), Ø 2.5mm	1
KL-0280-2202 A	Special Hexagon Socket Key, (waf) 6mm	1
KL-0280-221	Locking Pin (angled), Ø 4mm	1
KL-0280-222	Locking Pin (angled), Ø 4mm	1
KL-0280-2501	Locking Pin, Ø 4.4mm	1
KL-0280-6101	Locking Pin, Ø 4mm	1
KL-0280-6102	Locking Pin, Ø 7mm	1
KL-0284-91 A	Adjustment Tool for Timing Belt Tensioner, 240mm	1
KL-0284-92	Tensioner Pulley Spanner (waf 16mm)	1
KL-0286-11	Guide Pin Set	1
KL-1480-16	Locking Pin (long), Ø 6mm	2
KL-4031-3610	Screw Driver Bit Socket, XZN-M10	1
KL-4031-3114	Screw Driver Bit Socket, XZN-M14, 100mm	1
KL-0280-7029	Plastic Storage Case	1

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(Engine codes: 1X, 1Z, AAZ, ABL, AEY, AFN, AGD, AGP, AGR, AHB, AHF, AHG, AHU, AJM, AKU, AKW, ALE, ALH, AMF, ANU, ANY, AQM, ARL, ASV, ASX, ASY, ASZ, ATD, ATJ, ATL, AUY, AVB, AVF, AVG, AVQ, AWX, AXB, AXC, AXR, AYZ, AZV, BAY, BDJ, BDK, BHC, BJB, BKC, BKD, BKE, BLB, BLS, BMM, BMN, BMS, BNA, BNM, BNV, BPW, BRB, BRC, BRD, BRE, BRF, BRM, BRU, BSU, BTB, BUY, BVA, BVF, BVG, BVK, BWB, BXE, BXF, CAYB, CAYC, MF)

## KL-0280-62 K

### Locking Tool Set, VW-Audi/Seat/Škoda

Applicable to VW-Audi 1.2, 1.4, 1.6, 1.9 and 2.0 TDI / TDI PD / TDI CR, 3- and 4-cylinder Diesel engines as installed in: VW Beetle, Bora, Caddy, Eos, Fox, Golf/Vento, Jetta, Lupo, Passat, Polo, Sharan, Touran, Transporter; Audi A2, A3, A4, A6; Seat Alhambra, Altea, Cordoba, Ibiza, Leon, Toledo; Škoda Fabia, Octavia, Superb.

This tool set is designed for the locking and/or positioning of engine shafts such as camshaft, injection pump shaft and crankshaft. It can also be used to lock/position pulley tensioners and to adjust the timing belt tensioner. The guide pins included in the set are required to pull the front-end carrier forwards. As a result, the removal of the front-end carrier is no longer necessary.

#### Scope of Delivery: KL-0280-62 K Locking Tool Set, VW-Audi/Seat/Škoda

Part No.	Description	Qty
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-0280-16	Holding Tool	1
KL-0280-19	Locking Tool, 1.2, 1.4, 1.9 TDI PD	1
KL-0280-20	Locking Tool, 2.0 TDI PD	1
KL-0280-2201 A	Locking Pin angled, Ø 2.5mm	1
KL-0280-2202 A	Special Hexagon Socket Key, (waf) 6mm	1
KL-0280-222	Locking Pin (angled), Ø 4mm	1
KL-0280-6101	Locking Pin, Ø 4mm	1
KL-0280-6102	Locking Pin, Ø 7mm	1
KL-0280-8	Locking Pin, Ø 15.5mm	1
KL-0280-91	Setting Gauge for Camshaft	1
KL-0284-91	Adjustment Tool for Timing Belt Tensioner, 240mm	1
KL-0286-11	Guide Pin Set for Front-End Carrier, VW-Audi	1
KL-1480-16	Locking Pin (long), Ø 6mm	2
KL-0280-6290	Plastic Storage Case	1

## KL-0282-39

### Puller Tool Set, Pumpe-Düse (Unit Injector)

Applicable to the VW-Audi, Ford, Seat, Škoda 3- and 4-cylinder (1.2, 1.4, 1.6, 1.9 and 2.0 litre) TDI Pumpe-Düse (unit injector) engines as installed in: VW Eos, Golf, Jetta, Passat, Polo, Scirocco, Sharan, Tiguan, Touran; Audi A1, A3, A4, A5, A6, Q5, TT; Seat Altea, Exeo, Ibiza, Leon, Toledo; Škoda Fabia, Oktavia, Praktik, Roomster, Superb, Yeti. (Engine codes: CAGA, CAGB, CAGC, CAHA, CAHB, CAYA, CAYB, CAYC, CBAA, CBAB, CBAC, CBBA, CBBB, CBDA, CBDDB, CBDC, CEGA, CFFA, CFFB, CFFD, CFFE, CFGB, CFHA, CFHB, CFHC, CFHF, CFJA, CGLA, CGLB, CJAA, CJCA, CJCB, CLCA, CLCB, CLJA, CLLA, CMEA)

This tool set is designed for the easy and professional removal of camshaft hubs. It is required, for example, when replacing the cylinder head gasket on 1.9 litre engines, when removing and replacing the camshaft, and for the repair of engines/cylinder heads. The KL-0282-391 reaction wrench enables the camshaft hub fixing screw to be loosened and tightened correctly. The KL-0282-392 puller allows for the accurate removal of the camshaft hub from the camshaft taper.

Scope of Delivery: KL-0282-39 Puller Tool Set, Pumpe-Düse (Unit Injector)

Part No.	Description	Qty
KL-0282-391	Counter-Holding Tool	1
KL-0282-392	Puller for Camshaft Hub	1



## KL-4031-3610

### Screwdriver Bit Socket, XZN-M10

Suitable for use on VW-Audi, Seat, Škoda vehicles equipped with a 1.2, 1.6 or 2.0 TDI Common Rail engine. (Engine codes: CAAA, CAAB, CAAC, CAGA, CAGB, CAGC, CAHA, CAHB, CAYA, CAYB, CAYC, CAYD, CAYE, CBAA, CBAB, CBBB, CCHA, CDCA, CDBA, CEGA, CFCA, CFFA, CFFB, CFFD, CFGB, CFHA, CFHC, CFHD, CFHE, CFHF, CFJA, CFWA, CGLA, CGLB, CGLC, CGLD, CJCA, CJCB, CKTB, CKTC, CKUB, CKUC, CLCA, CLCB, CLJA, CLLA)

This socket is designed to loosen and tighten the fastening screws of the high pressure fuel pump sprocket (toothed timing belt) on Audi A3. The tool is required when replacing a timing belt or for engine repairs. Socket can also be used to install and remove the exhaust gas recirculation tube (EGR tube) on VW Tiguan.



Technical Data:

Size (waf):	XZN-M10
Drive:	3/8"

## KL-0280-703 K

### Locking Tool Set, VW 1.7, 1.9, 2.4 SDI/TDI

Applicable to VW-Audi, Seat and Škoda vehicles equipped with a 1.7, 1.9 or 2.4 SDI/TDI engine such as VW Lupo, Bora, Golf, Beetle, Caddy, Fox, Polo, Golf IV Convertible, Caddy, T4 (2.4); Audi A3; Seat Arosa, Leon, Toledo, Ibiza und Škoda Octavia, Fabia etc. (Engine codes: 1Y, ABL, AEY, AGP, AGR, AHF, AJA, AKU, ALH, AQM, ASV, ASY, AVG, AYQ)

Designed for the locking/positioning of engine shafts such as camshaft and injection pump shaft. The kit also includes tools to lock/position and adjust the timing belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-0280-703 K Locking Tool Set, VW 1.7, 1.9, 2.4 SDI/TDI

Part No.	Description	Qty
KL-0280-222	Locking Pin (angled), Ø 4mm	1
KL-0280-8	Locking Pin, Ø 15.5mm	1
KL-0280-91	Setting Gauge for Camshaft	1
KL-0280-93	Setting Gauge for Camshaft	1
KL-0284-91 A	Adjustment Tool for Timing Belt Tensioner, 240mm	1
KL-1480-16	Locking Pin (long), Ø 6mm	2
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-1107	Plastic Storage Case	1



Accessories (on demand):

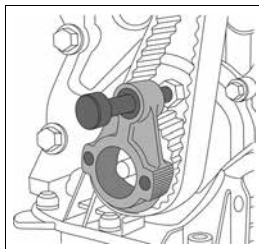
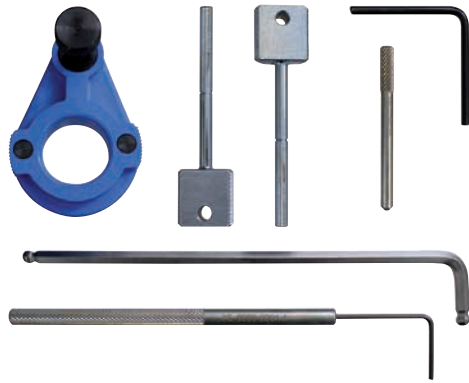
1993 U-20 CODE:1436686 - Reversible ratchet



DMK 200 CODE:2641240 - Torque Wrench Dremaster 40-200Nm







## KL-0280-706 K

### Locking Tool Set, VW 1.6/2.0 TDI

Applicable to VW-Audi, Seat and Škoda vehicles fitted with either a 1.6 or 2.0 Common Rail Diesel engine.

For example: VW Golf VII (5G, BE); Audi A3 (8V), A4 (8K), A5 (8T, 8F), A6 (4G), Q5 (8R); Seat Leon (5F) and Škoda Octavia III (5E) etc.

(Engine codes: CKFB, CKFC, CLHA, CLHB, CNHA, CNHC, CRBC, CRBD, CRFA, CRFC, CRKA, CRKB, CRLB, CRMB, CRVA, CRVC, CSUA, CSUB, CUNA, CUPA)

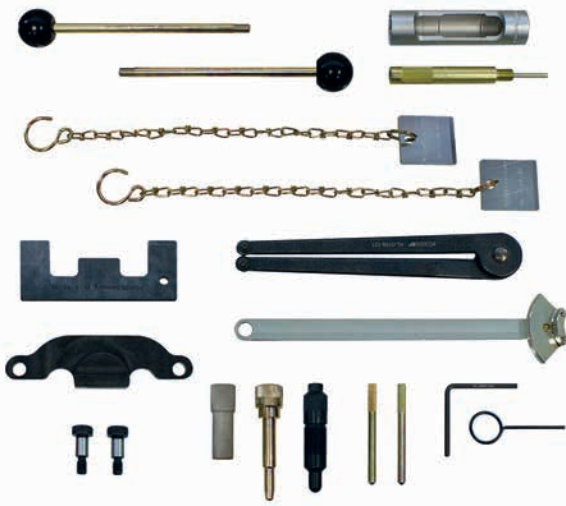
For the locking of camshaft, crankshaft, high-pressure pump, timing belt tensioner and auxiliary drive belt tensioner (V-ribbed belt). An indispensable tool set when replacing a timing belt or performing an engine repair.

#### Scope of Delivery:

#### KL-0280-706 K Locking Tool Set, VW 1.6/2.0 TDI

Part No.	Description	Qty
KL-0280-2201 A	Locking Pin (angled), Ø 2.5mm	1
KL-0280-2202 A	Special Hexagon Socket Key, size (waf) 6mm	1
KL-0280-222	Locking Pin (angled), Ø 4mm	1
KL-0280-7061	Locking Tool for Crankshaft	1
KL-0280-7062	Locking Tool Set for Camshaft	1
KL-1480-16	Locking Pin, Ø 6mm	1
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-1003	Plastic Storage Case	1

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## KL-0280-704 K

### Locking Tool Set, VW 1.7-2.5 SDI/TDI

Applicable to VW-Audi, Seat and Škoda vehicles equipped with either a 1.7, 1.9, 2.4 or 2.5 SDI/TDI engine such as VW Beetle, Bora, Caddy, Crafter, Fox, Golf IV Convertible, Golf, LT, Lupo, Passat, Polo, Transporter T4; Audi A3, A6 Allroad, A4, A6; Seat Arosa, Ibiza, Leon, Toledo and Škoda Octavia, Fabia, Superb etc.

(Engine codes: 1Y, ABL, ACV, AEY, AFB, AGP, AGR, AGX, AHD, AHF, AHY, AJA, AJT, AKE, AKN, AKU, ALH, ANJ, APA, AQM, ASV, ASY, AUF, AVG, AVR, AXG, AXL, AYC, AYM, AYQ, AYY, BAU, BBE, BBF, BCZ, BDG, BDH, BFC, BJJ, BJK, BJL, BJM, CEBA, CEBB, CECA, CECB)

Designed for the locking/positioning of engine shafts such as camshaft, injection pump shaft and crankshaft. The kit includes also tools to lock/position and adjust the timing belt tensioner.

An indispensable tool set when replacing a timing belt or performing an engine repair.

#### Scope of Delivery:

#### KL-0280-704 K Locking Tool Set, VW 1.7-2.5 SDI/TDI

Part No.	Description	Qty
KL-0129-14	Adaptor, 85mm, M10x1	1
KL-0149-131	Pin-Type Face Spanner, Ø 14-100mm, Pin Ø 5mm	1
KL-0180-3026	Retaining Pin, Ø 2.6mm	1
KL-0280-10	Locking Pin, Audi V6	1
KL-0280-222	Locking Pin (angled), Ø 4mm	1
KL-0280-2601	Locking Pin, Ø 16/10/7.5mm	1
KL-0280-8	Locking Pin, Ø 15.5mm	1
KL-0280-91	Setting Gauge for Camshaft	1
KL-0280-92	Setting Gauge for Camshaft	1
KL-0280-93	Setting Gauge for Camshaft	1
KL-0284-91 A	Adjustment Tool for Timing Belt Tensioner, 240mm	1
KL-0286-11	Guide Pin Set	1
KL-0369-10	Hex Socket, Size (waf) 22mm	1
KL-1480-16	Locking Pin (long), Ø 6mm	2
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-1107	Plastic Storage Case	1

## KL-0280-102 A

### Locking Tool Set, VW-Audi/Ford/Seat/Škoda

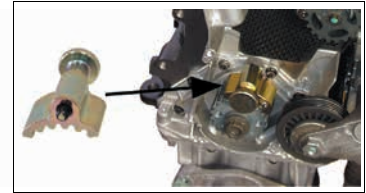
Applicable to vehicles equipped with a 3- or 4-cylinder (1.2, 1.4, 1.6, 1.9 or 2.0) TDI Pumpe-Düse engine (PD=unit injector) such as VW Amarok, Beetle, Bora, Caddy, Crafter, Eos, Golf, Jetta, Lupo, Passat, Polo, Scirocco, Sharan, Tiguan, Touran, Transporter T5; Audi A1, A2, A3, A4, A5, A6, Q5, TT; Seat Alhambra, Altera, Arosa, Cordoba, Exeo, Ibiza, Leon, Toledo; Škoda Fabia, Octavia, Praktik, Roomster, Superb, Yeti; Ford Galaxy; Mitsubishi Grandis, Outlander.

(Engine codes: ANY, AJM, AMF, ANU, ANY, ARL, ASZ, ASZ1, ATD, ATJ, ATL, AUY, AVB, AVF, AVQ, AWX, AXB, AXC, AXR, AYZ, AZV, BAY, BDJ, BDK, BGW, BHC, BHW, BJB, BKC, BKD, BLB, BLS, BLT, BMM, BMN, BMP, BMS, BMT, BNA, BNM, BNV, BPZ, BRD, BRE, BRF, BRM, BRR, BRS, BRU, BST, BSU, BSV, BSW, BSY, BTB, BUY, BVA, BVF, BVG, BVK, BWB, BXE, CAAA, CAAB, CAAC, CAGA, CAGB, CAGC, CAHA, CAHB, CAYA, CAYB, CAYC, CAYD, CAYE, CBAA, CBAB, CBAC, CBBA, CBBB, CBDA, CBDB, CBDC, CCHA, CDBA, CDCA, CEGA, CFFA, CFFB, CFFD, CFFE, CFGB, CFHA, CFHB, CFHC, CFHD, CFHE, CFHF, CFJA, CFWA, CGLA, CGLB, CGLC, CGLD, CJAA, CJCA, CJCB, CKTB, CKTC, CKUB, CKUC, CLCA, CLCB, CLJA, CLLA, CMEA)

Designed for the locking of crankshaft and automatic timing belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.

**Scope of Delivery: KL-0280-102 A Locking Tool Set, VW-Audi/Ford/Seat/Škoda**

Part No.	Description	Qty
KL-0280-19	Locking Tool, 1.2, 1.4, 1.9 TDI/PD	1
KL-0280-16	Holding Tool	1



#### Technical Data:

Weight:	320g
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#### Note:

The expanding mandrel ensures that the tool is securely locked in the housing borehole.

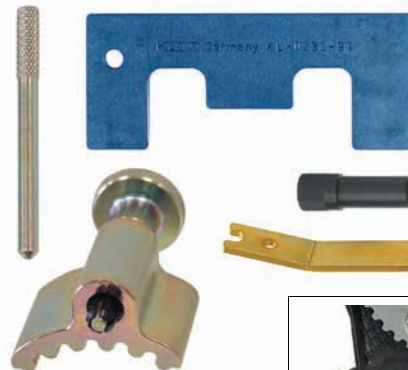
## KL-0280-106 A

### Locking Tool Set, VW-Audi

Universal Diesel tool set designed to lock/position engine shafts such as camshaft, crankshaft as well as the injection pump sprocket when replacing a timing belt or during engine repairs.

**Scope of Delivery: KL-0280-106 A Locking Tool Set, VW-Audi**

Part No.	Description	Use
KL-0280-8	Locking Pin, Ø 15.5mm	For locking the injection pump sprockets; applicable to VW-Audi, Seat, Škoda, etc.
KL-0280-16	Holding Tool	For locking the timing belt tensioner in the starting position; applicable to VW-Audi, Ford, Seat, Škoda TDI PD (unit injector) engines.
KL-1480-16	Locking Pin, Ø 6x60mm	For locking the injection pump sprocket; applicable to VW-Audi, Seat, Škoda, 1.9 D / SD / SDI / TD / TDI and 2.5 TDI. For positioning camshafts; suitable for VW-Audi, Ford, Seat, Škoda TDI PD-engines.
KL-0280-19	Locking Tool for Crankshaft	For locking the crankshaft; applicable to VW-Audi, Ford, Seat, Škoda 3- and 4-Cyl. TDI PD (unit injector) engines e.g. 1.2, 1.4, 1.9 and 2.0 (crankshaft sprocket with marking left to the locking screw).
KL-0280-91	Setting Gauge for Camshaft	For locking the camshafts; applicable to VW-Audi, Seat, Škoda 1.9 D / SD / SDI / TD / TDI engines Ford 1.6 D, 1.9 TD / TDI engines. Volvo Diesel-engines D24, D24T, D24TIC etc.



## KL-0280-20

### Locking Tool with Expanding Collet, Crankshaft, VW-Audi

Applicable to VW-Audi, Seat, Škoda 1.9 and 2.0 TDI engines with oval crankshaft timing belt sprocket as found in Audi A3, A4, A6, VW Polo, Golf, Caddy, Passat, Touran, Transporter etc.

(Engine codes: ASZ, ATD, AVQ, AXB, AXC, AXR, AZV, BDJ, BDK, BJB, BKC, BKD, BKE, BLB, BLS, BLT, BMA, BMM, BMN, BMP, BMR, BMT, BNA, BPW, BRB, BRC, BRD, BRE, BRF, BRM, BRR, BRS, BRT, BRU, BSS, BST, BSU, BUZ, BVA, BVE, BVF, BVG, BVH, BXE, BXF, BXJ etc.)

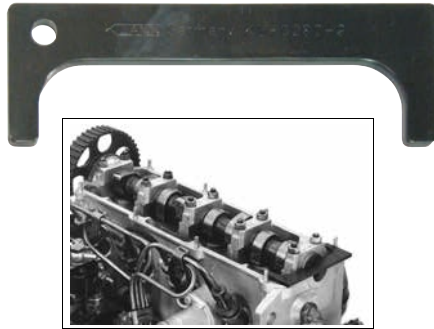
The tool is used for locking the crankshaft in position.

Necessary when replacing a timing belt or during engine repairs.



**Scope of Delivery: KL-0280-20 Locking Tool**

Part No.	Description	Qty
KL-0280-2001	Base Body	1
KL-0280-1902	Threaded Sleeve with Pins	1
KL-0280-1903	Knurled Screw	1



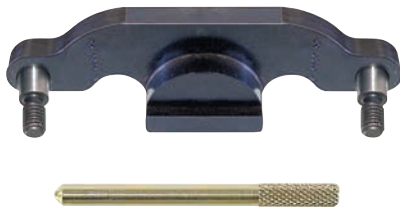
## KL-0280-9

### Setting Gauge, VW-Audi/Ford/Seat/Škoda/Volvo

Applicable to VW-Audi, Seat, Škoda, Ford, Volvo 1.9 and 2.5 Diesel engines as found in VW LT, Crafter.

(Engine codes: 1Y, ABL, ACV, AEY, AGP, AGR, AGX, AHD, AHF, AHY, AJA, AJT, AKU, ALH, ANJ, APA, AQM, ASV, ASY, AUF, AVG, AVR, AXG, AXL, AYC, AYQ, AYY, BBE, BBF, BJJ, BJK, BJL, BJM, CEBA, CEBB, CECA, CECB)

This tool is designed to lock/position the camshaft. Necessary when replacing a timing belt or during an engine repair.



## KL-0280-103

### Locking Tool Set, VW-Audi/Seat/Škoda

Applicable to VW- Audi, Seat, Škoda 4-cylinder 1.9 TDI/SDI engines (except PD). Ideal for VW Golf (IV 1.9 TDI [110 bhp] with aluminium valve cover.

Designed to lock engine shafts such as camshaft and injection pump shaft when replacing a timing belt or performing an engine repair.

The **KL-0280-103** tool set enables the replacement of the timing belt without having to remove the aluminium valve cover or the intake manifold.

#### Technical Data:

Weight:	400g
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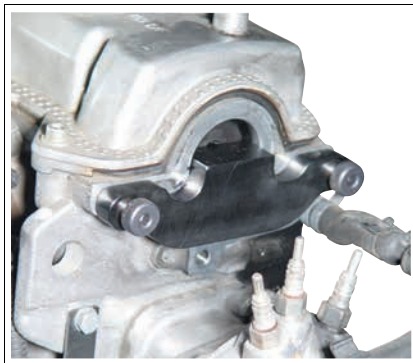
#### Note:

The valve cover seal has been vulcanised to the valve cover and can, therefore, only be replaced along with the valve cover. The seal is not available individually.

#### Scope of Delivery:

##### KL-0280-103 Locking Tool Set, VW-Audi/Seat/Škoda

Part No.	Description	Use
KL-0280-93	Setting Gauge for Camshaft	for locking camshafts without having to remove the aluminium valve cover or the intake manifold. Applicable to VW-Audi, Seat, Škoda 4-cyl. 1.9 TDI/SDI engines (except PD). Ideal for 1.9 TDI (110 bhp) with aluminium valve cover as found in VW Golf (IV).
KL-1480-16	Locking Pin, Ø 6x60mm	for locking the injection pump sprocket. Applicable to VW-Audi, Seat, Škoda, 1.9 D/SD/SDI/TD/TDI engines. For positioning the camshaft. Suitable for VW-Audi, Ford, Seat, Škoda TDI PD-engines.



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## KL-0282-40

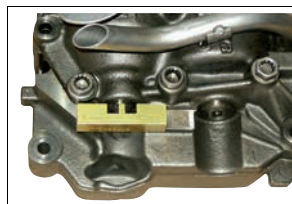
### Camshaft Sprocket Removal Drift

Applicable to VW/Audi 4-cylinder 1.9 TDI engines (110 bhp)

Designed to remove the camshaft sprocket from the camshaft taper. The special shape of the drift (filler neck in direction of impact) ensures that the impact force is delivered in the correct axial direction onto the front part of the camshaft sprocket.

#### Technical Data:

Weight:	210g
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## KL-0280-625

### Locking Tool for Balance Shaft, VW-Audi

Applicable to VW-Audi 2.0 TDI PD (unit injector) Diesel engines.

(Engine codes: AZV, BDK, BHW, BKD, BMM, BMN, GAHA, GAHB, GAGA and GAGB)

This tool is used to lock the balance shaft when removing/installing a balance shaft module.

## KL-0184-021 Counter-Holding Tool, VW

**Applicable to VW-Audi (2.4 and 2.5 litre) 4- and 5-cylinder engines, both with and without vibration damper; as found on: VW Crafter, T4.**  
**(Engine codes: AJA, BJJ, BJK, B JL, BJM, CEBA, CEBB, CECA, CECB)**

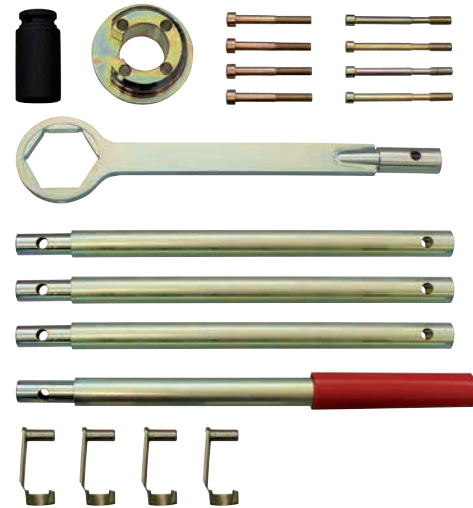
This tool is designed to counter-hold the crankshaft pulley while loosening/tightening the crankshaft central screw.  
An indispensable tool when replacing timing belts, sealing rings or flywheels, as well as for engine repairs.

**Scope of Delivery: KL-0184-021 Counter-Holding Tool, VW**

Part No.	Description	Qty
KL-0184-0210	Counter-Holding Tool (base tool with adaptor)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0102	Extension Tube	3
KL-0184-0103	Folding Spring Bolt	4

**Scope of Delivery: KL-0184-0210 Counter-Holding Tool (Base Tool with Adaptor)**

Part No.	Description	Qty
KL-0184-0211	Counter-Holding Tool (Base Tool)	1
KL-0284-6101	Adaptor	1
KL-0284-6102	Special Cheese Head Screw	4
KL-0284-6106	Cheese Head Screw, M8x65mm	4
KL-0284-62	Hex Socket	1



**Technical Data:**

Overall length (assembled tool):	1.8m
Length of extension tube:	400mm
Length of extension tube with protective handle:	403mm
Length of base tool:	401mm
Drive of hex socket:	1/2"

## KL-0280-105 Locking Tool Set, VW-Audi

**Applicable to VW-Audi 2.5 TDI V6 and Audi A8 3.3 TDI V8 engines.**  
**(Engine codes: AFB, AKE, AKF, AKN, AMY, BAU, BCZ, BFC, BDG, BDH).**

Designed for the locking of camshafts and crankshaft.  
Indispensable tool set when replacing a timing belt or performing an engine repair.

**Scope of Delivery: KL-0280-105 Locking Tool Set, VW-Audi**

Part No.	Description	Qty
KL-0280-92	Setting Gauge for Camshafts	2
KL-0280-10	Locking Pin for Crankshaft	1



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## KL-0280-25 K Locking Tool Set, VW-Audi 2.5 TDI V6

**Applicable to the VW-Audi 2.5 TDI V6 Diesel engines.**  
**(Engine Codes: AFB, AKE, AKF, AKN, AMY, BAU, BCZ, BFC, BDG, BDH)**

This tool set is designed to lock/position engine shafts such as camshafts, injection pump shaft and crankshaft. It can also be used for locking and adjusting the timing belt tensioner while replacing a timing belt or during an engine repair.  
The guide pins included in the set are required to pull the front carrier forwards. As a result, the removal of the front carrier is no longer necessary.

**Scope of Delivery: KL-0280-25 K Locking Tool Set, VW-Audi 2.5 TDI V6**

Part No	Description	Use
KL-0280-10	Locking Pin	For locking the crankshaft.
KL-0280-92	Setting Gauge (2 units)	For locking the camshafts.
KL-0286-11	Guide Pin Set for Front-End Carrier	When changing a timing belt or during an engine repair it is necessary to pull the front carrier on the guide pins forwards. As a result, the removal of the front carrier is no longer required.
KL-1480-16	Locking Pin, Ø 6x60mm	For locking the injection pump sprocket.
KL-0180-3012	Retaining Pin, Ø 1.2mm	For locking the automatic timing belt tensioner.
KL-0369-10	Hex Socket, 22mm (waf)	For tightening the tensioner of the injection pump pulley.
KL-0280-2501	Locking Pin, Ø 4.4mm	For locking the V-ribbed belt tensioner tool.





## KL-0280-27 KA Locking Tool Set, VW

Suitable for use on VW vehicles equipped with either a 2.5 or 4.9 TDI engine such as VW Phaeton, Touareg, Transporter T5. (Engine codes: AJS, AXE, AXD, AYH, BAC, BKW, BLE, BLJ, BLK, BNZ, BPC, BPD, BPE, BWF)

This tool set is designed to rotate the crankshaft as well as to lock and position camshaft and crankshaft.

### Scope of Delivery: KL-0280-27 KA Locking Tool Set, VW

Part No.	Description	Qty
KL-0280-271	Locking Tool for Crankshaft	1
KL-0280-272	Locking Pin, Ø 16/10.3mm	1
KL-0280-273	Locking Tool for Camshaft	1
KL-0284-823	Key for Rotating the Crankshaft	1
KL-0280-2990	Plastic Storage Case	1



## KL-0280-270 K Upgrade Kit to KL-0280-27 KA

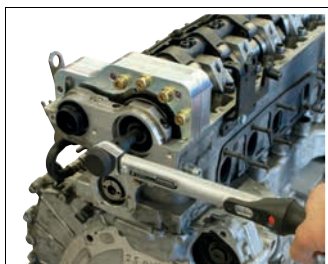
Suitable for use on VW vehicles equipped with either a 2.5 or 4.9 TDI Pumpe-Düse (unit injector) Diesel engine such as VW Phaeton, Touareg, Transporter T5. (Engine codes: AJS, AXD, AXE, AYH, BAC, BKW, BLE, BLJ, BLK, BNZ, BPC, BPD, BPE, BWF)

The KL-0280-270 K upgrade kit in conjunction with the KL-0280-27 KA tool set covers the same field of application as the locking tool set KL-0280-29 KA.

Designed to rotate the crankshaft as well as for the locking/positioning of camshaft and crankshaft. The kit also includes tools to pre-tension and lock the gear train when setting the timing on the engine.

### Scope of Delivery: KL-0280-270 K Upgrade Kit to KL-0280-27 KA

Part No.	Description	Qty
KL-0280-291	Pre-Tensioning Tool	1
KL-0280-292	Holding Tool	1
KL-0280-293	Adjustment Tool	1
KL-4031-3516	Screwdriver Bit Socket, XZN-M16	1
KL-4031-3110	Screwdriver Bit Socket, XZN-M10	1
KL-0280-2990	Plastic Storage Case	1



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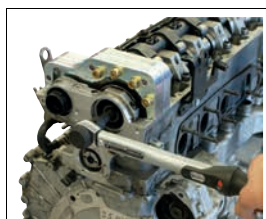
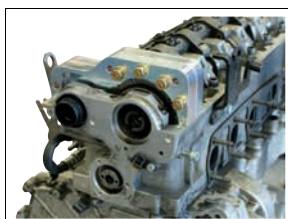
## KL-0280-29 KA Locking Tool Set, VW Transporter/Touareg

Suitable for use on VW vehicles equipped with either a 2.5 or 4.9 TDI engine such as VW Phaeton, Touareg, Transporter T5. (Engine codes: AJS, AXE, AXD, AYH, BAC, BKW, BLE, BLJ, BLK, BNZ, BPC, BPD, BPE, BWF)

Very useful tool set for the locking/positioning of camshaft and crankshaft. Also includes tools to pre-tension and lock the gear train when setting the timing on the engine, as well as a key for rotating the crankshaft. An indispensable tool set when performing an engine repair.

### Scope of Delivery: KL-0280-29 KA Locking Tool Set, VW Transporter/Touareg

Part No.	Description	Qty
KL-0280-291	Pre-Tensioning Tool	1
KL-0280-292	Holding Tool	1
KL-0280-293	Adjustment Tool	1
KL-0280-273	Locking Tool for Camshaft	1
KL-0284-823	Key for Rotating the Crankshaft	1
KL-0280-271	Locking Tool for Crankshaft	1
KL-0280-272	Locking Pin, Ø 16/10.3mm	1
KL-4031-3516	Screwdriver Bit Socket, XZN-M16	1
KL-4031-3110	Screwdriver Bit Socket, XZN-M10	1
KL-0280-2990	Plastic Storage Case	1



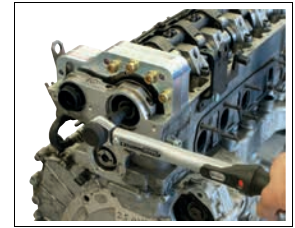
## KL-4031-3516

### Screwdriver Bit Socket, xZN-M16, 78mm, 1/2"

Suitable for use on:

- VW Transporter (from 2004 onwards) 2.5 TDI (engine: AXD, AXE, BLJ, BNZ, BPC)
- VW Touareg (model 2003) 2.5 TDI (engine: BAC, BLK, BPD, BPE)

Designed for the loosening/tightening of camshaft sprocket fastening screws.  
Reinforced design, however, not suitable for use with an impact wrench.



## KL-0280-94

### Setting Gauge for Camshaft, VW-Audi

Suitable for use on VW/Audi 5-cylinder 2.5 TDI Diesel engines; e.g. LT, T4.

This setting gauge allows the user to lock the camshaft without having to remove the valve cover.

An indispensable tool when replacing a timing belt or performing an engine repair.



Technical Data:

Weight:	680g
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## KL-0280-705 KA

### Locking Tool Set, VW, from 2.7 to 4.2 TDI

Suitable for use on VW-Audi vehicles equipped with either a 2.7, 3.0, 4.0 or 4.2 TDI Common Rail engine such as VW Touareg, Phaeton and Audi A4, A5 Coupé/Convertible, A6, A7, A8, Q5, Q7 etc.

The tool set is designed for the locking/positioning of engine shafts such as camshaft, injection pump shaft and crankshaft. It also includes tools to lock, position and adjust the timing belt tensioner.

An indispensable tool kit when replacing a timing belt or performing an engine repair.



Scope of Delivery: KL-0280-705 KA Locking Tool Set, VW from 2.7 to 4.2 TDI

Part No.	Description	Qty
KL-0280-10	Locking Pin, Audi V6	1
KL-1480-16	Locking Pin, Ø 6mm, long	2
KL-0280-7051	Adaptor with Guide Pin for Crankshaft	1
KL-0280-7052	Set of Retaining Pins, Ø 3mm (5-piece set)	1
KL-0280-7053	Crankshaft Turning Tool	1
KL-0280-7054	Set of Locking Pins (2-piece set)	1
KL-0280-7055	Camshaft Turning Adaptor	1
KL-0280-7056	Adaptor for Chain Sprocket	1
KL-0280-7057	Set of Retaining Pins, Ø 3.3mm (2-piece set)	1
KL-0280-7058	Locking Pin, Ø 5mm, Ø 6mm	1
KL-0280-7050	Locking Tool for High-Pressure Pump Sprocket	1
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-2002	Plastic Storage Box, 53x107x40mm	1
KL-4990-1107	Plastic Storage Case	1

(Engine codes: ASB, ASE, BKN, BKS, BMK, BMZ, BNG, BPP, BSG, BTR, BUG, BUN, BVN, CAMA, CAMB, CANA, CANB, CANC, CAND, CAPA, CASA, CASB, CASC, CATA, CCFA, CCFC, CCLA, CCMA, CCWA, CCWB, CDSB, CDTA, CDTB, CDUC, CDYA, CDYB, CDYC, CEXA, CGKA, CGKB, CJGA, CJGC, CJMA, CKVB, CKVC, CLAA, CLAB, CLZB, CRCA)

## KL-0280-290 K

### Upgrade Kit for KL-0280-29 KA

Applicable to VW 4.9 and 5.0 TDI Pumpe-Düse (unit injector) Diesel engines as found in VW Phaeton and Touareg etc.

(Engine codes: AJS, AYH, BKW, BLE, BWF, CBWA)

The KL-0280-290 K upgrade kit is designed to be used with the locking tool set KL-0280-29 K or the KL-0280-29 KA so as to widen their range of application to cover also the VW Phaeton and Touareg 4.9 and 5.0 TDI engines. Very useful tool set for for turning the crankshaft and for the locking/positioning of camshaft and crankshaft. Also includes tools to pre-tension and lock the gear train when setting the timing on the engine.

Scope of Delivery: KL-0280-290 K Upgrade Kit for KL-0280-29 KA

Part No.	Description	Qty
KL-0280-2901	Locking Tool for Camshaft	1
KL-0280-2902	Locking Tool for Crankshaft	1
KL-0280-2903	Guide Pin Set	1
KL-4990-1107	Plastic Storage Case	1





## KL-0280-61 KA

### Locking Tool Set, VW-Audi/Seat/Škoda

Suitable for use on vehicles equipped with either a 1.2, 1.4, 1.9 or 2.0 TDI 3- or 4-cylinder Diesel engine; 1.2 3-cylinder petrol engine; 1.4, 1.6, 1.8 or 1.8 Turbo petrol engine; 1.4 or 1.6 FSI petrol engine; such as VW Beetle, Bora, Caddy, Eos, Fox, Golf, Jetta, Lupo, Passat, Polo, Sharan, Touran, Transporter; Audi A2, A3, A4, A6, A8, RS4, S3, S4, TT; Škoda Fabia, Octavia, Superb; Seat Alhambra, Altea, Arosa, Cordoba, Ibiza, Inca, Leon, Toledo.

(Engine codes: 1X, 1Y, 1Z, AAZ, ABL, ACK, ACY, AFB, AFK, AEB, AEG, AEH, AEY, AFB, AFN, AGA, AGB, AGE, AGD, AGN, AGP, AGR, AGU, AHB, AHF, AHG, AHL, AHT, AHU, AHW, AHY, AJG, AJH, AJK, AJL, AJM, AJQ, AJT, AJV, AKE, AKL, AKN, AKQ, AKU, AKW, ALE, ALF, ALH, ALT, ALW, ALZ, AMB, AMF, AMK, AML, AMM, AMX, ANA, ANB, ANU, ANY, APC, APE, APF, APG, APK, APP, APR, APS, APT, APU, APX, APY, APZ, AQA, AQD, AQM, AQQ, AQX, ARC, ARE, ARJ, ARL, ARM, ARN, ARR, ARX, ARY, ARZ, ASJ, ASM, ASN, ASV, ASX, ASY, ASZ, ATD, ATJ, ATL, ATN, ATX, ATZ, AUA, AUB, AUF, AUM, AUQ, AUR, AUS, AUY, AVB, AVE, AVF, AVG, AVJ, AVQ, AVU, AVY, AWC, AWT, AWX, AWY, AXB, AXC, AXG, AXL, AXP, AXR, AXU, AXW, AXX, AYC, AYM, AYP, AYQ, AYZ, AZD, AZH, AZJ, AZL, AZM, AZQ, AZR, AZV, BAD, BAG, BAM, BAU, BAY, BBG, BBJ, BBU, BBY, BBZ, BCA, BCB, BCZ, BDG, BDH, BDJ, BDK, BDV, BES, BEX, BFB, BFC, BFQ, BGB, BGD, BGU, BHC, BHD, BJB, BJX, BKC, BKD, BKE, BKG, BKV, BKY, BLB, BLF, BLN, BLP, BLS, BLZ, BMB, BMD, BME, BMM, BMN, BMS, BNA, BNM, BNV, BPG, BPJ, BPW, BPY, BRB, BRC, BRD, BRE, BRF, BRM, BRU, BSE, BSF, BSU, BTB, BUD, BUL, BUY, BVA, BVF, BVG, BVK, BWA, BWB, BWE, BXE, BXF, BXW, BYK)

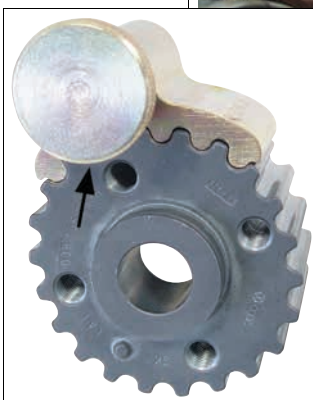
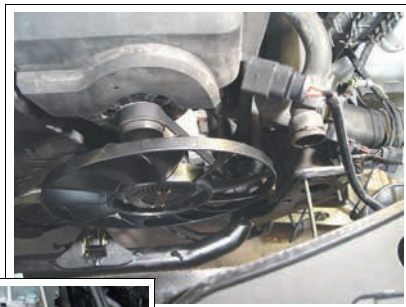
This set of tools is designed for the locking/positioning of engine shafts such as camshafts, injection pump shafts and crankshafts. It also includes tools to lock/position and adjust the timing belt tensioner.

An indispensable tool set when replacing a timing belt or performing an engine repair.

#### Scope of Delivery:

#### KL-0280-61 KA Locking Tool Set, VW-Audi/Seat/Škoda

Part No.	Description	Qty
KL-0180-30 B	Retaining Pin Set , Ø 0.8-2.6mm	1
KL-0280-1081 B	Locking Pin for Camshafts	1
KL-0280-1082 B	Locking Pin for Camshafts	2
KL-0280-1083 A	Locking Pin for Crankshaft	1
KL-0280-16	Holding Tool	1
KL-0280-17	Locking Tool for Camshaft, VW-Audi	1
KL-0280-19	Locking Tool for Crankshaft, 1.2,1.4 and 1.9 TDI/PD	1
KL-0280-20	Locking Tool for Crankshaft, 1.9 and 2.0 TDI/PD	1
KL-0280-2201 A	Locking Pin (angled), Ø 2.5mm	1
KL-0280-2202 A	Special Hexagon Socket Key, 6mm (waf)	1
KL-0280-3026	Retaining Pin, Ø 2.6mm	1
KL-0280-6013 A	Clamping Screw with Sleeve	1
KL-0280-6021 A	Setting Gauge for Camshaft	1
KL-0280-6022	Locking Screw for Crankshaft	1
KL-0280-6101	Locking Pin, Ø 4mm	1
KL-0280-6102	Locking Pin, Ø 7mm	1
KL-0280-6103	Locking Pin, Ø 8mm	1
KL-0280-8	Locking Pin, Ø 15.5mm	1
KL-0280-91	Setting Gauge for Camshaft	1
KL-0280-93	Setting Gauge for Camshaft	1
KL-0284-91 A	Adjustment Tool for Timing Belt Tensioner, 240mm long	1
KL-0286-11	Guide Pin Set for Front-End Carrier	1
KL-1480-16	Locking Pin, Ø 6mm, long	2
KL-1681-111	Adaptor, M14x1.25, for TDC Positioning	1
KL-0280-6190	Plastic Storage Case	1



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#### Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



DMK 200 CODE:2641240

Torque Wrench Dremaster 40-200Nm



## KL-0282-31

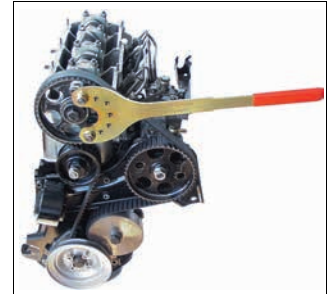
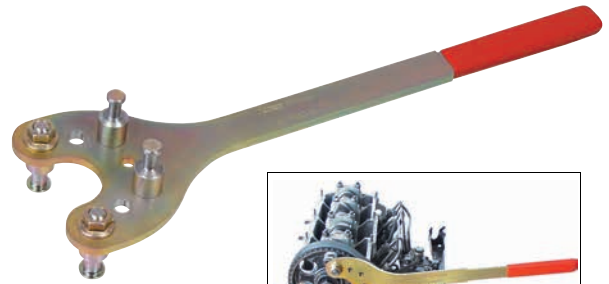
### Reaction Wrench (420mm long, adjustable)

Suitable for use on perforated timing belt sprockets with a hole  $\varnothing$  not smaller than 12mm, as found in VW-Audi, Seat, Fiat, Ford, Opel/Vauxhall, Peugeot, Renault, Citroën, Rover, Volvo, Isuzu, Japanese vehicles, etc.

With interchangeable pins and different hole pitches. Designed to prevent timing belt sprockets on camshafts, injection pumps, etc. from rotating; for example, when loosening the central fastening screw. Due to the different pin  $\varnothing$  and hole pitches, this wrench is almost universal in its range of application.

**Technical Data:**

Pitch between pins:	45-75mm
Pin $\varnothing$ :	12mm and 16mm
Pin height:	61mm
Overall tool length:	420mm



## KL-0282-35 B

### Reaction Wrench Set (470mm long, adjustable)

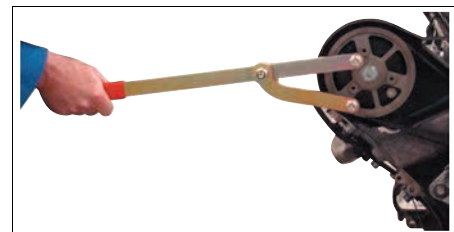
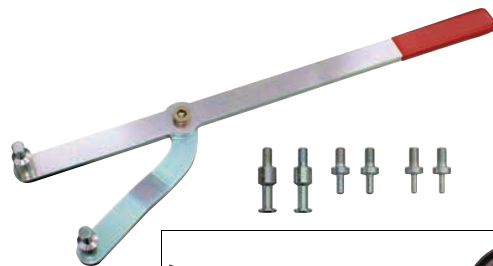
Universally suitable for use on perforated timing belt sprockets with a hole  $\varnothing$  not smaller than 6.5mm as found in: VW-Audi, Seat, Škoda, Alfa, Fiat, Lancia, Dacia, MG, Nissan, Ford, Opel/Vauxhall, Peugeot, Renault, Citroën, Rover, Volvo, Suzuki, Isuzu, Japanese vehicles, etc.

Designed to prevent timing belt sprockets on camshafts, injection pumps, etc. from rotating, for example, when loosening/tightening the central fastening bolt. Thanks to the different interchangeable pins and the adjustable lever allowing for variable adjustments to hole diameters and pitches, this tool is nearly universally applicable.

**Scope of Delivery:**

KL-0282-35 B Reaction Wrench Set (470mm long, adjustable)

Part No.	Description	Qty
KL-0282-35	Reaction Wrench (adjustable)	1
KL-0282-311	Set of Pins, $\varnothing$ 18mm	1
KL-0282-312	Set of Pins, $\varnothing$ 7.5mm	1
KL-0282-313	Set of Pins, $\varnothing$ 6mm	1



**Technical Data:**

Pitch between pins:	from 14mm to 130mm
Pin $\varnothing$ :	6mm, 7.5mm, 12mm, 18mm
Pin height:	25mm/42mm
Overall tool length:	470mm

## KL-0284-10

### Adjustment Tool for Timing Belt Tensioner

Suitable for VW-Audi engines.

Designed to be used for adjusting the tension of the timing belt. The tool can be operated from a variety of angles - depending on the space available.



**Technical Data:**

Drive:	3/8" or by a mandrel
Length:	47mm
Depth:	32.5mm
$\varnothing$	4.0/6.0mm
Weight:	70g

## KL-0284-91 A

### Adjustment Tool for Timing Belt Tensioner, VW-Audi, Seat, Škoda

Applicable to VW-Audi, Seat, Škoda 1.6, 1.9 and 2.0 litre petrol and Diesel engines.

Designed to be used for adjusting the tension of the timing belt. The adjustable multi-position head of the tool allows the tensioner pulley to be operated even in confined spaces.



(Engine codes: AAC, AEG, AEH, AGR, AHF, AKL, AKS, ALH, ALZ, APF, APK, AQY, ASV, ASY, ASZ, ATD, ATM, AVQ, AVU, AWA, AWF, AWG, AXA, AXB, AXC, AXR, AXW, AXX, AYD, AZG, AZH, AZJ, AZL, AZM, AZV, BDK, BEH, BFQ, BFS, BGB, BGU, BHD, BHZ, BJB, BKC, BKD, BKP, BLR, BLB, BLR, BLS, BLT, BLX, BLY, BMA, BMB, BMM, BMN, BMP, BMR, BMT, BNA, BPG, BPJ, BPY, BRD, BRE, BRF, BRM, BRT, BRU, BSE, BSF, BSU, BSX, BUL, BUZ, BVA, BVE, BVF, BVG, BVH, BVX, BVY, BVZ, BWA, BWA1, BWE, BWJ, BWT, BXE, BYD, BYK, BZC, CCSA, CDLA, CDLB, CDLC, CDLD, CDLF, CDMA, CHGA, CMXA)





**Technical Data:**

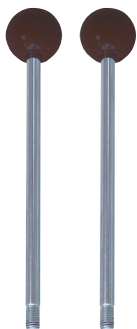
Size (waf):	30mm
Length:	332mm

## KL-0284-171

### Adjustment Tool for Timing Belt Tensioner, Size (waf) 30mm

**Applicable to the VW, Seat and Škoda 1.0, 1.2 and 1.4 TSI petrol engines as fitted to VW Golf VI Convertible, Golf VII, Golf Sportsvan, Jetta, Polo, up!; Seat Leon, Mii and Škoda Citigo. (Engine codes: CAVA, CAVD, CAXA, CHPA, CHYA, CHYB, CJZA, CJZB, CJZC, CJZD, CMBA, CPGA, CPTA, CPVA, CPVB, CPWA, CRJA, CTHD, CXSA, CYVA, CYVB, CZCA, CZDA, CZEA)**

For tensioning and relieving the tension on the automatic timing belt tensioner.



**Technical Data:**

Length:	190mm
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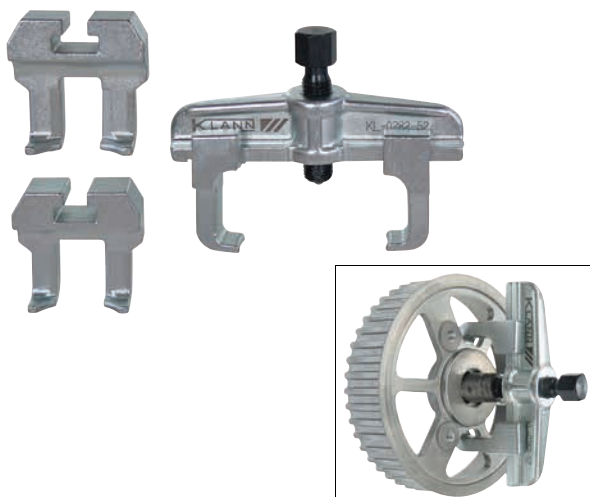
## KL-0286-11

### Guide Pin Set for Front-End Carrier, VW-Audi

**Applicable to VW-Audi A4, A5, A6, A8, Q5, S6, Passat (3B), T5, Touareg; Seat Exeo; Škoda Superb.**

When replacing a timing belt or performing an engine repair on the specified vehicles, these guide pins are used to pull the front-end carrier forwards. As a result, the removal of the front-end carrier is no longer necessary.

Note: VW T5 vehicles require the use of 4 guide pins.



**Technical Data:**

Drive:	17mm
Max. pulling width:	100mm
Max. pulling height:	38mm
Max. load capacity:	2t
Weight:	1.3kg

## KL-0282-52 K

### Puller for Timing Belt Sprockets, vw-Audi

**Applicable to VW-Audi; e.g. Audi A4, A6, A8 and VW Passat etc. equipped with either a 4-, 6- or 8-cylinder engine. (Engine codes: AFB, AGA/AJG, AGR, AHF, AJK, AKE, AKN, ALF, ALH, ALW, AML, AMM, AMX, APS, AQH, AQM, ARE, ARJ, ASM, ASV, ASY, AVP, AXQ, AYM, AYQ, BAU, BBG, BCY, BCZ, BDG, BDH, BDV, BES, BFC, BFL, BFM, BGH, BGJ, BHX, BJJ, BJK, BJL, BJM, BRV, CEBA, CEBB, CECA, CECB)**

The puller **KL-0282-52 K** is particularly suitable for removing 5- and 6-spoke camshaft sprockets. A selection of hooks is included in the kit to make the puller almost universal in its range of application.

**Scope of Delivery: KL-0282-52 K Puller for Timing Belt Sprockets, VW-Audi**

Part No.	Description	Qty
KL-0282-52	Puller for Timing Belt Sprockets	1
KL-0282-5290	Plastic Storage Case	1

**Scope of Delivery: KL-0282-52 Puller for Timing Belt Sprockets, VW-Audi**

Part No.	Description	Qty
KL-0282-5201	Bridge	1
KL-0282-5202	Spindle	1
KL-0282-5203	Single Hook	2
KL-0282-5204	Double Hook, 18mm	1
KL-0282-5205	Double Hook, 23mm	1

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## KL-0149-131

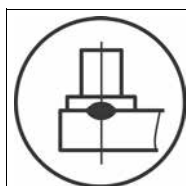
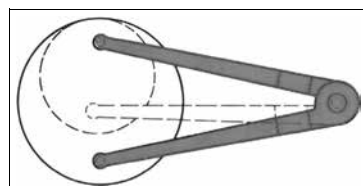
### Pin-Type Face Spanner, Ø 14-100mm, Pin Ø 5mm

**Applicable to VW-Audi, Fiat etc.**

Designed to remove the pre-tension ring when installing a new SAC (Self-Adjusting Clutch) on Audi, Fiat etc.

**Technical Data:**

Ø:	14-100mm
Pin Ø:	5mm
Pin height:	6mm
Overall length:	215mm
Weight:	300g



## KL-0284-92

### Tension Pulley Spanner, Size (waf) 16mm

**Universal application. Particularly useful on VW-Audi 1.9 and 2.0 TDI engines.**  
(Engine codes: ASZ, ATD, AXA, AXR, BLS, BLT, BMT, BPX, BUK, BXJ)

This tool is designed to pre-tension the auxiliary belt tensioner when the removal and installation of the belt is to be performed in situ on the vehicle. THE ideal spanner for use in areas where space is at a premium.

**Technical Data:**

Size (waf):	16mm
Length:	295mm

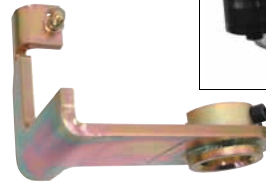


## KL-0280-12

### Locking Tool for Crankshafts, VW-Audi

**Applicable to VW-Audi engines; e.g. 2.5 5-cylinder Diesel engines as installed in VW T4.** (Engine codes: ACV, AET, AGX, AHD, AHY, AJT, ANJ, APA, APL, AUF, AVR, AVT, AXG, AXL, AYC, AYY, BBE, BBF)

Designed to lock the crankshaft (crankshaft pulley) when loosening or tightening the central retaining screw (for example when replacing a timing belt).



## KL-0284-17

### Adjuster for Timing Belt Tensioner,

Size (waf) 32mm

**Suitable for use on the VW-Audi 2.4 and 2.5 5-cylinder TDI engines as found in Audi A6, VW T4, also applicable for Volvo etc.**

(Engine codes: ACV, AET, AGX, AHD, AHY, AJA, AJT, ANJ, APA, APL, AUF, AVR, AVT, AXG, AXL, AYC, AYY, BBE, BBF, BJJ, BJK, BJL, BJM, CEBA, CEBB, CECA, CECB)

For tensioning and relieving the tension on the automatic timing belt tensioner pulley.



**Technical Data:**

Length:	175mm
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## KL-0284-14

### Torx® Universal Joint Socket T45

**Applicable to VW-Audi vehicles, ideal for use on:**

- VW Golf (III) - petrol engines as from 85 kW (115bhp) onwards and all Diesel engines.
- Audi 80, A4 - petrol engines with 85 kW (115bhp) and double fan.
- Audi 80, A4 - Diesel engines with double fan.

Designed to loosen the timing belt tensioner clamping screw on toothed belt drives.



## KL-0126-10

### Timing Belt Tension Test Gauge

**Ideal for use on VW-Audi, Ford, Opel/Vauxhall, etc.**

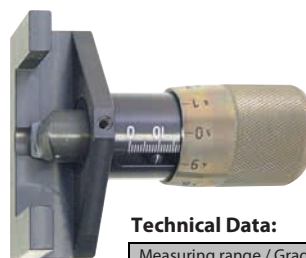
Mechanical control

The **KL-0126-10** belt tension test gauge enables controlled adjustment of the belt pre-tension on combustion engines.

The tool is applicable to any vehicle with available specifications and data of admitted belt deflexion in mm at a specified force in N or kp.

**Advantages:**

- Easy to use.
- Compact metal-based design.
- Controlled adjustment of the pre-tension of the timing belt.
- Double reading possibility (on front and rear side).



**Technical Data:**

Measuring range / Graduated scale:	0-20mm
Graduation of the scale:	in mm
Measurement method:	mechanical (spring)
360° revolution of adjusting knob:	1mm
Graduation of adjusting knob (Nonius):	1/10mm
Load capacity of the piston by the spring force at 1 revolution of the adjusting knob:	10 N ( 1 kp)
Weight:	344g



**Advantages:**

- No damage to the vibration damper.
- Substantial time savings.

## KL-0282-51

### Puller for Vibration Damper

**Suitable for use on VW 5-cylinder engines with ribbed V-belt; e.g. T4, LT etc.**

Designed for the removal of the vibration damper with the timing belt sprocket being pushed back at the same time. This puller is absolutely indispensable if the shoulder of the crankshaft sprocket is seized up in the vibration damper.

The tool can also be used with the engine installed in the vehicle.



## KL-0280-766 K

### Locking Tool Set, VW 1.0

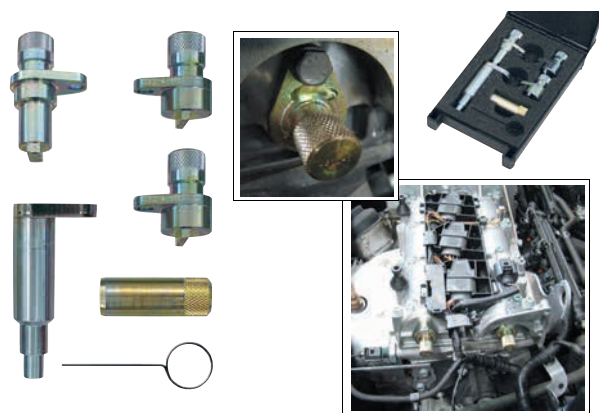
**Applicable to VW, Seat and Škoda 1.0 (3-cylinder) petrol engines as fitted to VW Polo, up!; Seat Mii, and Škoda Citigo. (Engine codes: CHYA, CHYB, CPGA)**

For the locking/positioning of camshafts, crankshaft and timing belt tensioner.

An indispensable tool set when replacing a timing belt or performing an engine repair.

**Scope of Delivery: KL-0280-766 K Locking Tool Set, VW 1.0**

Part No.	Description	Qty
KL-0284-171	Adjustment Tool for Timing Belt Tensioner, Size (waf) 30mm	1
KL-0280-7661	Locking Tool for Camshaft	1
KL-0280-7662	Locking Tool for Camshaft Sprockets	1
KL-0280-6022 A	Locking Screw for Crankshaft	1
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-1107	Plastic Storage Case	1



## KL-0280-108 KB

### Locking Tool Set, VW 3-Cylinder Engines, VW-Audi/Seat/Škoda

**Applicable to VW, Seat, Škoda 1.0, 1.2 6V and 1.2 12V 3-cylinder petrol engines both with SingleCam and TwinCam as found in VW Polo, Fox; Seat Arosa, Ibiza, Cordoba and Škoda Fabia, Roomster etc.**

This tool set is designed for the locking of camshafts, crankshaft and timing chain tensioner. Indispensable tools when replacing a timing chain or performing an engine repair.

**Scope of Delivery: KL-0280-108 KB Locking Tool Set, VW 3-Cylinder**

Part No.	Description	Qty
KL-0280-1081 B	Locking Pin for Camshaft	1
KL-0280-1082 B	Locking Pin for Camshaft	2
KL-0280-1083 A	Locking Pin for Crankshaft	1
KL-0280-1084 B	Locking Pin, Ø 18mm	1
KL-0180-3026	Retaining Pin, Ø 2.6mm	1
KL-0280-1089	Plastic Storage Case	1

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(Engine codes: AHT, AWY, AZQ, BBM, BMD, BME, BXV, BZG, CEVA, CGPA, CGPB, CHFA, CHFB)

**Technical Data:**

Weight:	600 g
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## KL-0280-767 K

### Locking Tool Set, VW 1.2/1.4 TSI/FSI

**Applicable to VW-Audi, Seat, Škoda vehicles with either a 1.2 or 1.4 TSI/FSI petrol engine; e.g.: Audi A1 (8X), A3 (8V); VW Golf VII (5G, BE), Golf SV/Sportsvan (AM), Polo V (6R, 6C); Seat Leon (5F), Ibiza (6J); Škoda Octavia III (5E).**

For locking the camshafts, crankshaft and auxiliary drive belt tensioner (V-ribbed belt). The set also includes special tools to position the timing belt tensioner and push against the timing belt to ease the insertion of the camshaft locking tool. An indispensable tool set when replacing a timing belt or timing chain, and when performing an engine repair.

**Scope of Delivery: KL-0280-767 K Locking Tool Set, VW 1.2/1.4 TSI/FSI**

Part No.	Description	Qty
KL-0280-222	Locking Pin (angled), Ø 4mm	1
KL-0280-6022 A	Fixing Screw for Crankshaft	1
KL-0284-171	Adjustment Tool for Timing Belt Tensioner, Size (waf) 30mm	1
KL-0280-7671	Locking Tool, Camshaft	1
KL-0280-7672	Locking Tool, Camshaft	1
KL-0280-7673	Special Tool for Camshaft	1
KL-4990-2002	Plastic Storage Box, 53x107x40mm	1
KL-4990-1107	Plastic Storage Case	1



(Engine codes: CHPA, CJZA, CJZB, CJZC, CJZD, CMBA, CPTA, CPVA, CPVB, CPWA, CXSA, CYVA, CYVB, CZCA, CZDA, CZEA)

## KL-0280-602 KC

### Locking Tool Set, VW-Audi

Applicable to VW-Audi 1.2 TSI/TFSI, 1.4 FSI / TSI / TFSI and 1.6 FSI petrol engines; as installed in VW Polo, Golf, Golf Plus, Touran; Audi A3; Škoda Octavia; Seat Altera, Ibiza, Leon.

(Engine codes FSI: AXU, BAG, BKG, BLF, BLN, BLP, BMY, BTS; TSI: CAVA, CAVB, CAVC, CAVD, CAVE, CAVF, CBZB, CBZC, CDGA, CKMA, BLG, BMY, BWK; TFSI: CAVG, CAXA, CAXC, CBZA)

This tool set is used for the locking and positioning of camshafts, crankshaft and timing chain tensioner.

Necessary for checking and adjusting the camshaft timing, for example, when replacing a timing chain or during an engine repair.

#### Scope of Delivery:

#### KL-0280-602 KC Locking Tool Set, VW-Audi

Part No.	Description	Qty
KL-0280-6021 A	Setting Gauge for Camshaft	1
KL-0180-3026	Retaining Pin, Ø 2.6mm	1
KL-1681-111	Adaptor (M14x1.25) for TDC Positioning	1
KL-0280-6022	Locking Screw for Crankshaft	1
KL-0280-6023	Locking Pin for Camshaft	1
KL-0280-6029 A	Platic Storage Case	1



## KL-0184-022

### Counter-Holding Tool, VW

#### Universal application.

Essential tool for the VW-Audi, Seat, and Škoda 1.2, 1.4 and 1.6 litre petrol engines with 2- or 4-valve technology as well as for Škoda 1.9 SDI Diesel engines. Installed in: VW Beetle, Bora, Caddy/Caddy Maxi, Eos, Fox, Golf, Golf Plus, Golf VI Cabrio, Jetta, Lupo, Passat, Polo, Scirocco, Sharan, Tiguan, Touran; Audi A1, A2, A3, A3 Convertible; Seat Alhambra, Altea/Altea XL, Arosa, Cordoba, Ibiza, Inca, Leon, Toledo; Škoda Fabia, Fabia II, Octavia II, Octavia/Octavia Tour, Praktik, Roomster, Superb II, Yeti.

(Engine codes: AFK, AHW, APE, AQQ, ARR, ASY, AUA, AUB, AUS, AVY, AWY, AXP, AXU, AZD, AZQ, BAD, BAG, BBM, BBY, BBZ, BCA, BCB, BKG, BKY, BLF, BLG, BLN, BLP, BMD, BME, BMY, BTS, BUD, BWK, BXW, BZG, CAVA, CAVB, CAVC, CAVD, CAVE, CAVF, CAVG, CAXA, CAXC, CBZA, CBZB, CDGA, CGGA, CGGB, CGPA, CGPB, CHFA, CHFB, CKMA, CMAA)

This tool is designed to counter-hold pulleys, timing belt sprockets etc.

It is required when loosening/tightening the fastening screw.

The locking takes place either via the pins (Ø 11.5mm) which engage the holes of the pulleys/timing belt sprockets, or by fixing the counter-holding tool to the crankshaft timing belt sprocket by means of the M8 bolts.

Thanks to its special length of 704mm, this tool allows even very tight-fitting or stubborn fastening screws to be loosened with ease.

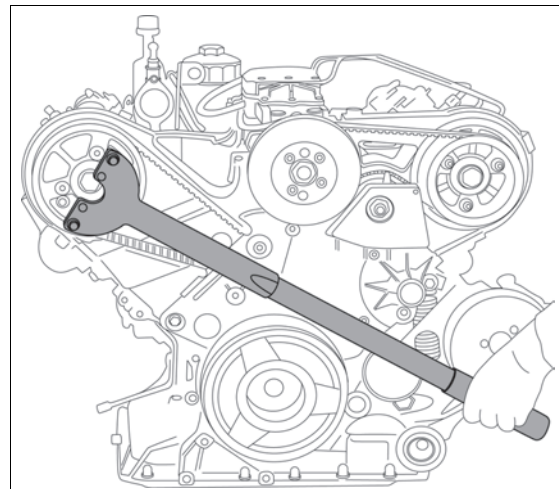
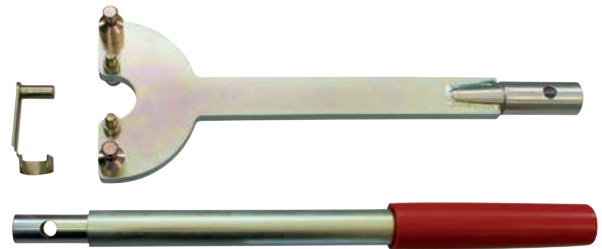
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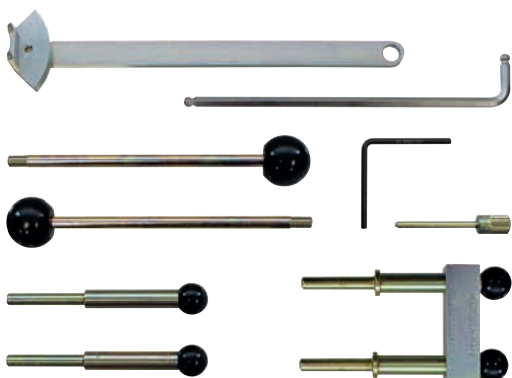
Overall length (of assembled tool):	704mm
Length of base tool:	351mm
Length of extension tube with protective handle:	403mm
Pin Ø:	11.5mm
Pin pitch:	99.5mm
Pin height:	31.5mm
Bolt thread:	M8
Bolt pitch:	45.5mm
Bolt height:	18mm

#### Scope of Delivery:

#### KL-0184-022 Counter-Holding Tool, VW

Part No.	Description	Qty
KL-0184-0220	Counter-Holding Tool (Base Tool with Bolts)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0103	Folding Spring Bolt	1





## KL-0280-751 K

### Locking Tool Set, VW 1.4 and 1.6 16V

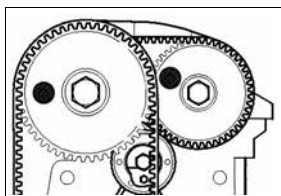
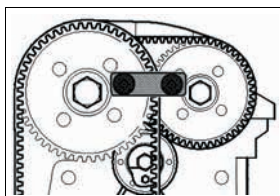
Suitable for use on VW-Audi, Seat and Škoda vehicles equipped with either a 1.4 16V or 1.6 16V petrol engine; such as Audi A2, A3, A4; VW Beetle, Bora, Caddy, Fox, Golf, Golf Plus, Jetta, Lupo, Passat, Polo, Touran; Seat Altea, Arosa, Cordoba, Exeo, Ibiza, Leon, Toledo; Škoda Fabia, Fabia II, Octavia II, Roomster etc. (Engine codes: 1F, AEE, AEH, AEX, AFK, AHW, AKL, AKS, AKV, ALM, ALZ, AME, APE, APF, APQ, AQQ, AQW, ARR, AUA, AUB, AUD, AUS, AVU, AVY, AXP, AYD, AZD, AZE, AZF, BAD, BAH, BBY, BBZ, BCA, BCB, BFG, BFS, BGU, BKR, BKY, BLM, BSE, BSF, BUD, BXW, CCSA, CGGA, CGGB, CHGA, CMAA, CMXA)

Designed for the locking/positioning of camshafts, timing belt tensioners and auxiliary drive belt tensioners (Ribbed V-belt).

An indispensable tool set when replacing a timing belt or performing an engine repair.

#### Scope of Delivery: KL-0280-751 K Locking Tool Set, VW 1.4 and 1.6 16V

Part No.	Description	Qty
KL-0280-21	Locking Pin Set, VW-Audi (2-pc)	1
KL-0280-17	Locking Tool for Camshaft, VW-Audi	1
KL-0280-2202 A	Special Hexagon Socket Key, Size (waf) 6mm	1
KL-0280-222	Locking Pin (angled), Ø 4mm	1
KL-0284-91 A	Adjustment Tool for Timing Belt Tensioner, VW-Audi, Seat, Škoda	1
KL-0280-2501	Locking Pin, Ø 4.4mm	1
KL-0286-11	Guide Pin Set for Front-End Carrier (2-pc)	1
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-1107	Plastic Storage Case	1



## KL-0280-63 K

### Locking Tool Set, VW-Audi

Applicable to VW-Audi 1.4 16V, 1.4 FSI, 1.6, 1.6 16V, 1.6 FSI, 1.8 Turbo, 1.8 Turbo 20V, TFSI, 2.4, 2.7 Turbo and 2.8 petrol engines; as can be found on VW Beetle, Bora, Caddy, Eos, Golf, Jetta, Lupo, Passat, Polo, Sharan, Touran; Audi A3, A4, A6, A8, RS4, S3, S4, TT; Škoda Fabia, Oktavia, Superb; Seat Alhambra, Altera, Arosa, Cordoba, Ibiza, Inca, Leon, Toledo.

(Engine codes: AEB, AEG, AEH, AFK, AGA, AGB, AGE, AGN, AGU, AHL, AHW, AJG, AJH, AJK, AJL, AJQ, AKL, AKQ, ALF, ALG, ALT, ALW, ALZ, AMB, AMK, AML, AMM, AMX, ANA, ANB, APC, APE, APF, APG, APK, APP, APR, APS, APT, APU, APX, APY, APZ, AQA, AQD, AQQ, AQX, AQY, ARC, ARE, ARJ, ARM, ARN, ARR, ARX, ARY, ARZ, ASJ, ASM, ATM, ATN, ATZ, AUA, AUB, AUM, AUQ, AUR, AUS, AVJ, AVU, AVY, AWA, AWC, AWT, AXP, AXU, AXW, AXX, AYD, AYP, AZD, AZH, AZJ, AZL, AZM, AZR, BAD, BAG, BAM, BBG, BBU, BBY, BBZ, BCA, BCB, BDV, BEH, BES, BEX, BFB, BFG, BFS, BGB, BGU, BHD, BJX, BKG, BKV, BKY, BLF, BLN, BLP, BLR, BLX, BLY, BLZ, BMB, BPG, BPJ, BPY, BSE, BSF, BUD, BUL, BVX, BVY, BVZ, BWA, BWE, BWJ, BWT, BXW, BYK)

Tool set for the locking/positioning of engine shafts such as camshafts and crankshaft. It can also be used to lock/position and adjust the timing belt tensioner as well as to lock the ribbed V-belt tensioning element. The guide pins included in the set are required to pull the front-end carrier forwards. As a result, the removal of the front-end carrier is no longer necessary.

#### Scope of Delivery: KL-0280-63 K Locking Tool Set, VW-Audi

Part No.	Description	Qty
KL-0180-3019	Retaining Pin, Ø 1.9mm	1
KL-0149-131	Pin-Type Face Spanner, Ø 14-100mm, pin Ø 5mm	1
KL-0280-10	Locking Pin, Audi V6	1
KL-0280-16	Holding Tool	1
KL-0280-17	Locking Tol for Camshaft, VW-Audi	1
KL-0280-21	Locking Tol for Camshaft, (2 pcs.)	1
KL-0280-221	Locking Pin (angled), Ø 4mm	1
KL-0280-222	Locking Pin (angled), Ø 4mm	1
KL-0280-6013 A	Tension Screw with Sleeve	1
KL-0280-6101	Locking Pin, Ø 4mm	1
KL-0280-6103	Locking Pin, Ø 8mm	1
KL-0284-91	Tensioner Spanner, VW-Audi	1
KL-0286-11	Guide Pin Set for Front-End Carrier, VW-Audi	1
KL-0280-6390	Plastic Storage Case	1

## KL-0280-17

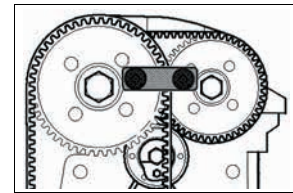
### Locking Tool for Camshaft, VW-Audi

Applicable to VW-Audi, Seat, Škoda 1.4 and 1.6 petrol engines, as found in VW Lupo, Polo, Golf, Bora; Audi A2 etc.

(Engine codes: AFK, AHW, APE, AQQ, ARR, AUA, AUB, AUS, AVY, AXP, AZD, BBY, BBZ, BCA, BCB, BKY, BUD, BXW, CGGA, CGGB, CMAA etc.)

Designed to lock both camshaft sprockets in place.

Required when replacing a timing belt or during an engine repair.



**Technical Data:**

Weight:	340g
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## KL-0280-21

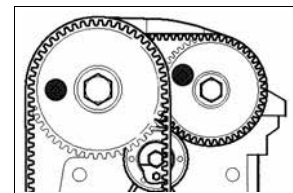
### Locking Pin Set, VW-Audi

Applicable to VW-Audi 1.4 and 1.6 petrol engines as found in VW Lupo, Polo, Golf (IV), Bora; Audi A2.

(Engine codes: AHW, APE, AQQ, ARR, AUA, AUB, AVY, AZD, BAD, BBY, BBZ, BCA, BBC, BKY, BUD etc.)

Designed to lock both camshaft sprockets in place.

Required when replacing a timing belt or during an engine repair.



**Technical Data:**

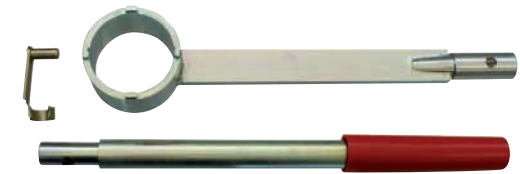
Weight:	160g
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## KL-0184-023

### Counter-Holding Tool, VW

Applicable to VW 1.4 16V and 1.6 16V petrol engines; as installed in VW Beetle, Bora, Caddy/Caddy Maxi, Golf, Lupo, Polo.

This tool is used to counter-hold the crankshaft pulley while loosening and tightening the crankshaft central screw.



**Technical Data:**

Overall length (of assembled tool):	739mm
Length of extension tube with protective handle:	403mm
Length of base tool:	386mm

(Engine codes: AHW, APE, AQQ, ARC, ARR, ATN, AUA, AUB, AUS, AVY, AZD, BBY, BBZ, BCA, BCB, BKY, BUD)

**Scope of Delivery: KL-0184-023 Counter-Holding Tool, VW**

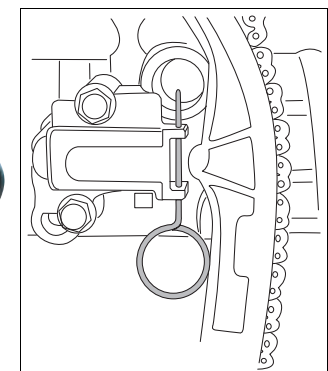
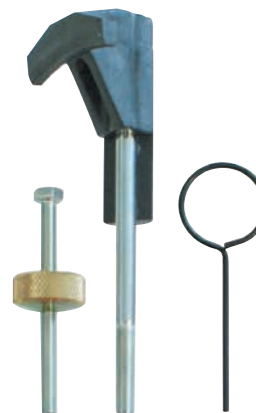
Part No.	Description	Qty
KL-0184-0230	Counter-Holding Tool (base tool)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0103	Folding Spring Bolt	1

## KL-0280-601 A

### Locking Tool Set, VW-Audi/Seat/Škoda

Suitable for use on VW-Audi, Seat, Škoda 1.8 and 1.8 T TwinCam petrol engines (engine codes: ADR, AEB, AFY, AGN, AGU, AJH, AJL, AJP, AJQ, AMK, ANB, APG, APP, APT, APU, APX, APY, AQA, AQX, ARG, ARX, ARY, ARZ, AUM, AUQ, AVC, AWC, AWP, AWU, AWV, AYP and BAM) as well as 2.4, 2.7 and 2.8 V6 petrol engines (engine code: AGA, AGB, AGE, AJG, AJK, ALF, ALG, ALW, AML, AMM, AMX, APC, APR, APS, APZ, AQD, ARE, ARJ, ARN, ASJ, ASM, AZA, AZR, BDV and BES); as found in Audi A3, A4, A6, TT, S3; Seat Ibiza, Cordoba, Leon, Toledo, Alhambra; Škoda Ocatvia; VW Beetle, Golf, Bora, Passat, Sharan.

This tool set is designed to adjust camshaft timing chains and timing belt tensioners. It is required when changing a timing belt or a timing chain, and for engine repairs.



**Scope of Delivery: KL-0280-601 A Locking Tool Set, VW-Audi/Seat/Škoda**

Part No.	Description	Qty
KL-0280-6011 A	Holding Tool for Timing Chain Tensioner	1
KL-0180-3026	Retaining Pin, Ø 2.6mm	1
KL-0280-6013 A	Tension Screw with Sleeve	1



(Engine codes: AAC, AEG, AGN, AGU, AJQ, AKR, ALT, AMB, AMK, APG, APK, APP, APT, APY, AQA, AQY, ARX, ARY, ARZ, ATM, AUM, AUQ, AVC, AVJ, AWC, AWF, AWG, AWT, AWU, AXA, AZG, AZH, AZJ, AZL, AZM, BAM, BBU, BBX, BEH, BEX, BFB, BFV, BJX, BKV, BLZ, BSX, BVP, BVR, CFMA)

## KL-0280-752 K

### Locking Tool Set, VW 1.8 and 2.0

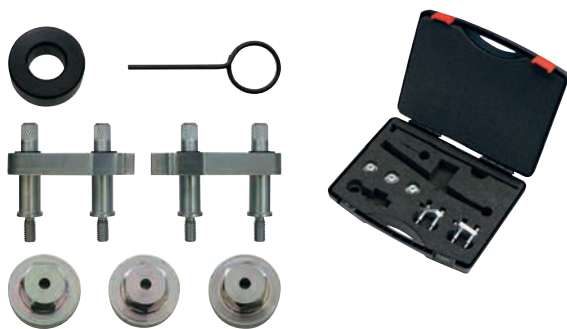
Applicable to VW-Audi, Seat and Škoda vehicles equipped with either a 1.8 or 2.0 petrol engine; such as VW Beetle, Bora, Caddy, Golf IV Cabrio, Golf, Passat, Polo, Sharan, Touran, Transporter T4, Transporter T5; Audi A3/S3, A4, A6, TT; Seat Alhambra, Cordoba, Exeo, Ibiza, Leon, Toledo and Škoda Fabia, Octavia, Superb etc.

Designed to be used for the locking/positioning of camshafts and crankshaft, as well as for tensioning/relieving the tension on ribbed V-belts. An indispensable tool set when replacing a timing belt or timing chain, and during engine repairs.

#### Scope of Delivery: KL-0280-752 K Locking Tool Set

Part No.	Description	Qty
KL-0280-7521	Hex Screw, M5x60mm, with Nut	1
KL-0180-3026	Retaining Pin, Ø 2.6mm	1
KL-0280-16	Holding Tool	1
KL-0280-2202 A	Special Hexagon Socket Key, Size (waf) 6mm	1
KL-0280-222	Locking Pin (angled), Ø 4mm	1
KL-0280-2501	Locking Pin, Ø 4.4mm	1
KL-0280-6011 A	Holding Tool for Timing Chain Tensioner	1
KL-0280-6013 A	Tension Screw with Sleeve	1
KL-0280-6101	Locking Pin, Ø 4mm	1
KL-0280-6103	Locking Pin, Ø 8mm	1
KL-0284-91 A	Adjustment Tool for Timing Belt Tensioner, VW-Audi, Seat, Škoda	1
KL-0284-92	Tension Pulley Spanner (waf 16mm)	1
KL-0286-11	Guide Pin Set for Front-End Carrier	1
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-1107	Plastic Storage Case	1

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(Engine codes: BYT, BZB, CABA, CABB, CABD, CAWA, CAWB, CBFA, CCTA, CCZA, CCZB, CCZC, CDAA, CDAB, CDHA, CDHB, CDNB, CDNC, CDND, CESA, CETA, CFKA, CGYA)

## KL-0280-762 K

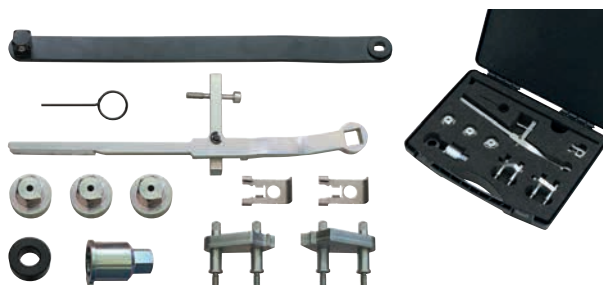
### Locking Tool Set, VW 1.8 and 2.0 TFSI/TSI

Applicable to VW-Audi vehicles equipped with either a 1.8 or 2.0 TFSI/TSI petrol engine such as: Audi A3, A4, A5, Q5, TT; VW Eos, Golf, Jetta, Passat, Scirocco, Sharan, Tiguan; Seat Altea, Exeo, Leon, Toledo; Škoda Octavia II, Superb II, Yeti.

Designed for the locking/positioning of camshafts, as well as for the locking of the timing chain tensioner. The kit also includes tools for the removal and installation of the 4/3-way central valve found in camshaft phasing units. An indispensable tool set when replacing a timing chain or performing an engine repair.

#### Scope of Delivery: KL-0280-762 K Locking Tool Set, VW 1.8 and 2.0 TFSI/TSI

Part No.	Description	Qty
KL-0280-7621	Locking Tool for Camshaft (2 units)	1
KL-0280-7622	Removal/Installation Tool Set for Cam Phaser Central Valve (3-piece set)	1
KL-0280-7623	Pressure Piece	1
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-0280-7639	Plastic Storage Case	1



(Engine codes: BYT, BZB, CABA, CABB, CABD, CADA, CAEA, CAEB, CAWA, CAWB, CBFA, CCTA, CCZA, CCZB, CCZC, CDAA, CDAB, CDHA, CDHB, CDNB, CDNC, CDND, CESA, CETA, CFKA, CJEB, CJA, CJSB)



## KL-0280-763 K

### Locking Tool Set, VW 1.8 and 2.0 TFSI/TSI

Applicable to VW-Audi vehicles equipped with either a 1.8 or 2.0 TFSI/TSI petrol engine such as: Audi A3, A4, A5, Q5, TT; VW Eos, Golf, Jetta, Passat, Scirocco, Sharan, Tiguan; Seat Altea, Exeo, Leon, Toledo; Škoda Octavia II, Superb II, Yeti.

Designed for the locking/positioning of camshafts, as well as for the locking of the timing chain tensioner. The kit also includes tools for the removal and installation of the 4/3-way central valve found in camshaft phasing units. An indispensable tool set when replacing a timing chain or performing an engine repair.

#### Scope of Delivery: KL-0280-763 K Locking Tool Set, VW 1.8, 2.0 TFSI / TSI

Part No.	Description	Qty
KL-0280-7622	Removal/Installation Tool Set for Cam Phaser Central Valve (3-piece set)	1
KL-0280-7623	Pressure Piece	1
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-0280-7621	Locking Tool for Camshaft (2 units)	1
KL-0280-7631	Mounting Lever	1
KL-0280-7632	Locking Tool for Chain Tensioner	1
KL-0280-7633	Camshaft-Turning Tool	1
KL-0280-7639	Plastic Storage Case	1

## KL-0184-025 Counter-Holding Tool, VW

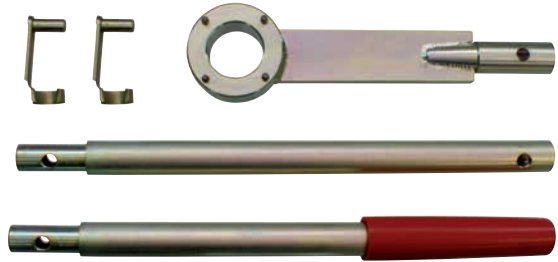
Applicable to VW-Audi, Seat, Škoda vehicles equipped with either a 1.8 or 2.0 TSI/TFSI engine; such as VW Golf, Eos, Jetta, Passat, Passat CC, Scirocco, Sharan, Tiguan; Audi A3, A4, A5, Q5, TT; Seat Toledo, Altea/Altea XL, Exeo, Leon; Škoda Octavia II, Superb II, Yeti.

(Engine codes: BYT, BZB, CABA, CABB, CABD, CAWA, CAWB, CBFA, CCTA, CCZA, CCZB, CCZC, CDAA, CDAB, CDHA, CDHB, CDNB, CDNC, CDND, CESA, CETA, CFKA, CGYA)

For counter-holding the crankshaft vibration damper while loosening and tightening the crankshaft central screw.

Scope of Delivery: KL-0184-025 Counter-Holding Tool, VW

Part No.	Description	Qty
KL-0184-0250	Counter-Holding Tool (Base Tool with Pins)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0102	Extension Tube	1
KL-0184-0103	Folding Spring Bolt	2



### Technical Data:

Length of assembled tool:	980mm
Length of base tool:	276mm
Length of extension tube:	400mm
Length of extension tube with protective handle:	403mm

## KL-0280-765 K Locking Tool Set, VW 2.0

Applicable to VW-Audi vehicles equipped with a 2.0 TFSI / FSI / TSI petrol engine; such as Audi A3, A4, A6, S3, TT; VW Eos, Golf, Jetta, Passat, Scirocco, Touran; Seat Altea, Exeo, Leon, Toledo; Škoda Octavia II.

(Engine codes: AWA, AXW, AXX, BGB, BHD, BHZ, BLR, BLX, BLY, BMB, BPG, BPJ, BPY, BUL, BVX, BVY, BVZ, BWA, BWA1, BWE, BWJ, BWT, BYD, BYK, BZC, CDLA, CDLB, CDLC, CDLF, CDMA)

Designed for the locking/positioning of camshafts, as well as of the timing belt-, ribbed V-belt- and timing chain tensioners. The kit also includes tools to loosen/tighten camshaft phasing units. An indispensable tool set when replacing a timing belt/timing chain or performing an engine repair.

Scope of Delivery: KL-0280-765 K Locking Tool Set, VW 2.0

Part No.	Description	Qty
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-0280-16	Holding Tool	1
KL-0280-221	Locking Pin (angled), Ø 4mm	1
KL-0280-222	Locking Pin (angled), Ø 4mm	1
KL-0280-6013 A	Tension Screw with Sleeve	1
KL-0280-7651	Locking Tool for Camshaft	1
KL-0284-91 A	Adjustment Tool for Timing Belt Tensioner	1
KL-0286-11	Guide Pin Set	1
KL-4051-3010	Screwdriver Bit Socket	1
KL-0280-7659	Plastic Storage Case	1



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## KL-0280-753 K Locking Tool Set, VW 2.3 20V

Suitable for use on VW and Seat vehicles equipped with a 2.3 VR5 petrol engine; such as VW Beetle, Bora, Golf, Passat; Seat Toledo, LT etc.  
(Engine codes: AGL, AGZ, AQN, AZX)

Designed for the locking/positioning of camshafts, as well as of the timing chain tensioner. An indispensable tool set when replacing a timing chain or performing an engine repair.

Scope of Delivery: KL-0280-753 K Locking Tool Set, VW 2.3 20V

Part No.	Description	Qty
KL-0280-951 A	Setting Gauge for Camshafts, VW-Audi	1
KL-0280-7531	Locking Pin, Ø 6mm	1
KL-0280-7532	Wedge	1
KL-0280-7533	Open End Spanner, Size (waf) 29mm	1
KL-4990-1107	Plastic Storage Case	1







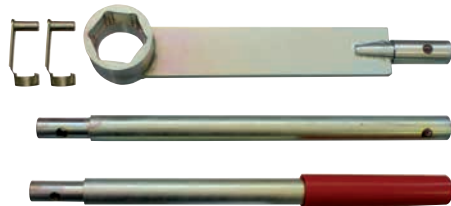
(Motorcode:  
AES, AGZ, AQN, AUE, AYL, AZX, BDE, BHE, BHT, BSB, BTE etc.)

## KL-0280-951 A

### Setting Gauge for Camshafts, VW-Audi

Suitable for use on VW-Audi 2.3, 2.8, 2.9, 3.2 and 6.0 litre petrol engines as found in VW Golf, Bora, Vento, Corrado, Passat, Sharan, Transporter; Seat Leon, Toledo, Alhambra; Ford Galaxy.

This tool is designed for the locking/positioning of camshafts. It is required when changing timing chains and for engine repairs.



(Engine codes: AGZ, AQN, AUE, AXZ, AYL, AYT, AZZ, BAA, BAN, BAP, BDB, BDE, BDL, BDM, BDN, BDP, BFH, BHE, BHK, BHL, BHT, BJN, BJS, BKJ, BKK, BKL, BMJ, BML, BMV, BMX, BRJ, BRK, BRN, BRP, BSB, BTE, BTT, BUB, BWS, CBRA)

#### Technical Data:

Length of assembled tool:	1.06m
Length of extension tube with protective handle:	403mm
Length of extension tube:	400mm
Length of base tool:	361mm

## KL-0184-024

### Counter-Holding Tool, VW

Applicable to VW-Audi, Seat vehicles, and Ford Galaxy equipped with either a 2.3, 2.8, 3.2, 3.6, 4.0 or 6.0 litre engine; such as VW Beetle, Bora, Sharan, Eos, Golf, Touareg, Transporter T5, Passat CC, Passat, Phaeton; Audi A3, A8, Q7, TT; Seat Alhambra, Leon, Toledo; Ford Galaxy.

Designed to counter-hold the crankshaft pulley while loosening/tightening the crankshaft central screw.

Scope of Delivery: KL-0184-024 Counter-Holding Tool, VW

Part No.	Description	Qty
KL-0184-0240	Counter-Holding Tool (base tool)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0102	Extension Tube	1
KL-0184-0103	Folding Spring Bolt	2

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## KL-0280-764 K

### Locking Tool Set, VW-Audi 2.4

Applicable to Audi vehicles equipped with a 2.4 petrol engine such as Audi A6, A6 Quattro etc. (Engine code: BDW)

Designed for the locking/positioning of camshafts, timing chain tensioner and crankshaft. The kit also includes tools to counter-hold, loosen/tighten camshaft sprockets /the camshaft phasing unit. An indispensable tool set when replacing a timing chain or performing an engine repair.

Scope of Delivery: KL-0280-764 K Locking Tool Set, VW-Audi 2.4

Part No.	Description	Qty
KL-0149-131	Pin-Type Face Spanner, Ø 14-100mm, Pin, Ø 5mm	1
KL-0280-7051	Adaptor with Guide Pin for Crankshaft	1
KL-0280-7052	Set of Retaining Pins, (5-piece set)	1
KL-0280-7561	Camshaft Locking Tool Set	1
KL-0280-7562	Locking Pin, M14x1.5	1
KL-0280-7593	Socket Insert, XZN-M14	1
KL-4990-2002	Plastic Storage Box, 53x107x40mm	1
KL-4990-1107	Plastic Storage Case	1

## KL-0280-754

### Locking Tool Set, VW 2.4, 2.7 and 2.8 30V

Suitable for use on VW-Audi and Škoda vehicles equipped with either a 2.4, 2.7 or 2.8 litre V6 petrol engine with 30 valves; such as VW Passat; Audi A4, A6, A6 Allroad etc.

Designed for the locking of camshafts, crankshaft and timing belt/V-ribbed belt tensioners. The kit also includes a tool to counter-hold the pulley when removing/installing the Viscous fan. An indispensable tool set when changing a timing belt/cam timing chain or performing an engine repair.

Scope of Delivery: KL-0280-754 Locking Tool Set, VW 2.4, 2.7 and 2.8 30V

Part No.	Description	Qty
KL-0280-7540 K	Locking Tool Set, VW 2.4, 2.7 and 2.8 30V	1
KL-0280-13	Locking Tool, Audi	1



(Engine codes: AGA, AJG, AJK, ALF, ALW, AML, AMM, AMX, APS, ARE, ARJ, ASM, BBG, BDV, BES)

## KL-0280-7540 K Locking Tool Set, VW 2.4, 2.7 and 2.8

**Application as KL-0280-754;** however the set does not include the KL-0280-13 locking tool for camshafts.

**Scope of Delivery: KL-0280-7540 K Locking Tool Set, VW 2.4, 2.7 and 2.8**

Part No.	Description	Qty
KL-0149-131	Pin-Type Face Spanner, Ø 14-100mm, Pin Ø 5mm	1
KL-0180-3026	Retaining Pin, Ø 2.6mm	1
KL-0280-10	Locking Pin, Audi V6	1
KL-0280-2501	Locking Pin, Ø 4.4mm	1
KL-0280-6011 A	Holding Tool for Timing Chain Tensioner	1
KL-0286-11	Guide Pin Set for Front-End Carrier	1
KL-0280-7541	Crowfoot Wrench, Size (waf) 32mm	1
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-1107	Plastic Storage Case	1



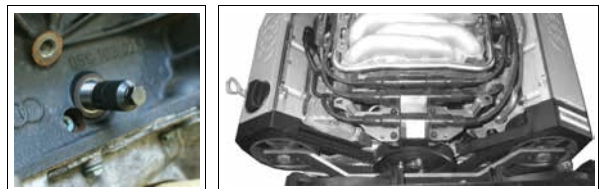
## KL-0280-130 Locking Tool Set, Audi 2.4, 2.7, 2.8 V6

**Suitable for use on vehicles equipped with either a V6 2.4, 2.7 or 2.8 (5-valve) VW-Audi petrol engine; such as Audi A4, A6; VW Passat; Škoda Superb.**  
**(Engine codes: AGA, AJG, AJK, ALF, ALG, ALW, AML, AMM, AMX, APS, ARE, ARJ, ASM, BBG, BDV, BES)**

Designed for the locking of engine shafts such as camshafts and crankshaft.  
This tool set is required when replacing a timing belt or during an engine repair.

**Scope of Delivery: KL-0280-130 Locking Tool Set Audi 2.4, 2.7, 2.8 V6**

Part No.	Description	Application:
KL-0280-13	Locking Tool Audi V6 30V	Audi V6 2.4, 2.7 and 2.8 (5-valve) petrol engines. Engine codes: ALF, AMM, BDV
KL-0280-10	Locking Pin, Audi V6	VW-Audi V6 petrol engines and V6/V8 Diesel engines. (engine codes: ABC, AKE)



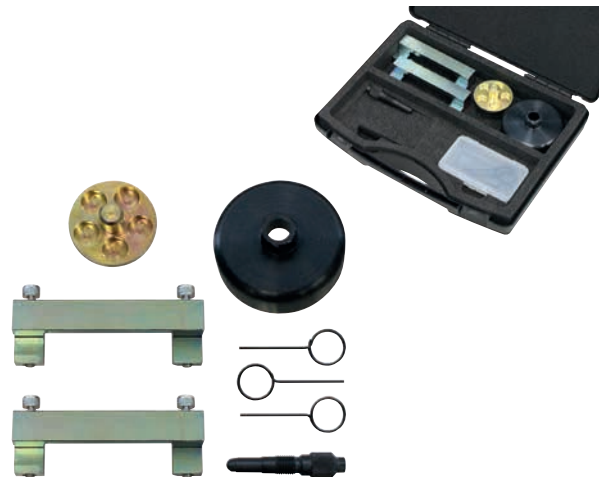
## KL-0280-756 K Locking Tool Set, 2.5 TFSI

**Suitable for use on VW-Audi vehicles equipped with a 2.5 5-cylinder TFSI petrol engine; such as Audi TT, RS3 etc. (Engine codes: CEPA, CEPB)**

This tool set is designed for the locking/positioning of camshafts, crankshaft and timing chain tensioner. Also includes a tool to pre-tension the timing chain. An indispensable tool kit when changing a timing chain or performing an engine repair.

**Scope of Delivery: KL-0280-756 K Locking Tool Set, 2.5 TFSI**

Part No.	Description	Qty
KL-0280-7562	Locking Pin, M14x1.5	1
KL-0280-7561	Locking Tool Set for Camshaft	1
KL-0280-7565	Tool for Timing Chain	1
KL-0280-7563	Adaptor for Crankshaft	1
KL-0280-7564	Retaining Pin Set, Ø 3mm (3-pc.)	1
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-1107	Plastic Storage Case	1



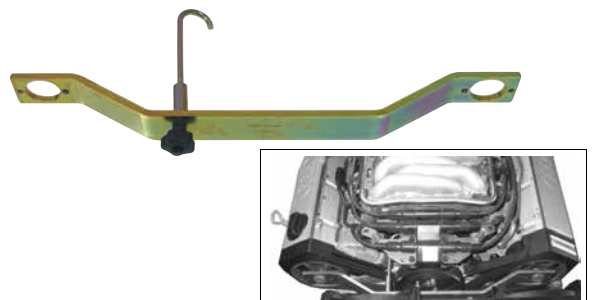
## KL-0280-11 Locking Tool, Audi 2.6 V6

**Applicable to Audi 2.6 V6 petrol engines with 2 valves per cylinder. (Engine code: ABC)**

Designed to lock the camshafts when, for example, replacing a timing belt or performing an engine repair.

**Technical Data:**

Weight:	1.9kg
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## KL-0280-759 K

### Locking Tool Set, VW 2.8, 3.0, 3.2 V6 FSI

Suitable for use on VW-Audi vehicles equipped with either a 2.8, 3.0 or 3.2 V6 FSI petrol engine; such as VW Touareg and Audi A4, A5, Q5, A6, A6 allroad, A8 etc. (Engine codes: BDX, CAJA, CALA, CALB, CCAA, CCDA, CCEA, CGEA, CJBA)

Designed for the locking/positioning of camshafts, crankshaft, balance shaft and timing chain tensioner. An indispensable tool set when changing a timing chain or performing an engine repair.

#### Scope of Delivery:

#### KL-0280-759 K Locking Tool Set, VW 2.8, 3.0, 3.2 V6 FSI

Part No.	Description	Qty
KL-0280-7591	Locking Tool for Camshafts (2-pc.)	1
KL-0280-7592	Guide Pin Set (2-pc)	1
KL-0280-7593	Socket Insert, XZN-M14	1
KL-0280-7051	Adaptor with Guide Pin for Crankshaft	1
KL-0280-7052	Set of Retaining Pins, Ø 3mm (5-pc)	1
KL-0280-7053	Crankshaft-Turning Tool	1
KL-0280-7562	Locking Pin, M14x1.5	1
KL-0280-6103	Locking Pin, Ø 8mm	1
KL-0149-131	Pin-Type Face Spanner, Ø14-100mm, pin Ø 5mm	1
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-2002	Plastic Storage Box, 53x107x40mm	1
KL-4990-1107	Plastic Storage Case	1

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## KL-0280-755 K

### Locking Tool Set, VW 2.8, 3.2, 4.0 and 6.0

Applicable to VW-Audi, Seat and Ford Galaxy 2.8, 3.2 VR6, 4.0 W8 and 6.0 W12 petrol engines as found in: VW Bora, Sharan, Eos, Golf, Transporter T4, Transporter T5, Passat, Phaeton, Touareg; Audi A3, TT, A8; Seat Alhambra, Leon, and Ford Galaxy etc.

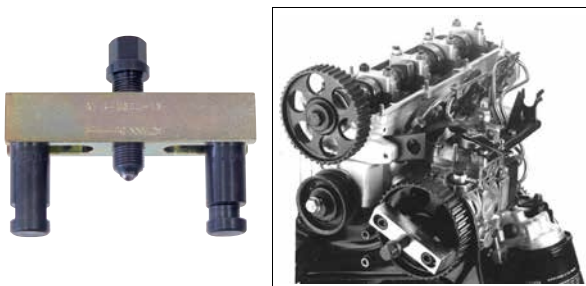
(Engine codes: AES, AUE, AYL, AYT, AZZ, BAA, BAN, BAP, BDB, BDE, BDL, BDM, BDN, BDP, BFH, BHE, BHT, BJN, BJS, BKJ, BKK, BKL, BMJ, BML, BMV, BMX, BRJ, BRK, BRN, BRP, BSB, BTE, BTT, BUB, CBRA)

Professional tool set for the locking/positioning of camshafts, crankshaft and timing chain tensioner. Indispensable when changing a timing chain or performing an engine repair.

#### Scope of Delivery:

#### KL-0280-755 K Locking Tool Set, VW 2.8, 3.2, 4.0 and 6.0

Part No.	Description	Qty
KL-0280-10	Locking Pin, Audi V6	1
KL-0280-951 A	Setting Gauge for Camshafts, VW-Audi	1
KL-0280-7551	Camshaft Alignment Tool (2-piece set)	1
KL-0280-7552	Chain Tensioner-Holding Tool	1
KL-4990-1107	Plastic Storage Case	1



## KL-0282-1

### Puller for Timing Belt Sprocket

Universally suitable for use on all the perforated timing belt sprockets with a pitch circle diameter of from 70-100mm.

**Note:** The hole Ø must not be smaller than 20mm.

**THE ideal tool for VW-Audi, Seat, Škoda, etc.**

Designed to remove timing belt sprockets. Can be used, for example, for removing the injection pump sprocket from a distributor-type fuel injection pump.

#### Technical Data:

Pitch circle Ø:	70-100mm
Hole Ø (min.):	20mm
Drive:	waf 17mm

## KL-0280-23 KA Locking Tool Set, VW-Audi

**Applicable to VW-Audi 3.0 V6 TwinCam petrol engines as found in Audi A4, A6, A8. (Engine codes: ASN, AVK, BBJ)**

This tool set is designed for the locking/positioning of engine shafts such as camshafts and crankshaft. Also includes tools to lock, position and adjust the timing belt tensioner.

An indispensable tool kit when replacing a timing belt or performing an engine repair.

**Scope of Delivery:**

**KL-0280-23 KA Locking Tool Set, VW-Audi**

Part No.	Description	Qty
KL-0280-231	Setting Gauge for Camshafts (Pair)	1
KL-0280-232	Locking Pin for Crankshaft	1
KL-0280-233	Adjustment Tool for Camshaft Sprocket	1
KL-0284-91 A	Adjustment Tool for Timing Belt Tensioner VW-Audi	1
KL-0149-131	Pin-Type Face Spanner, Ø 14-100mm, Pin Ø 5mm	1
KL-0286-11	Guide Bolt Set	1
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-0280-2390 A	Plastic Storage Case	1



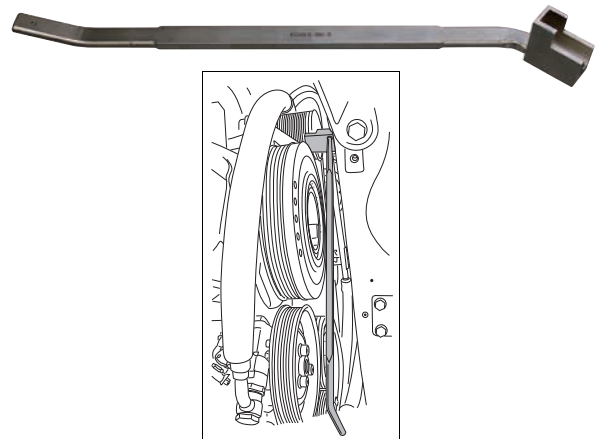
## KL-0284-12 Tensioner Tool (Ribbed V-Belt)

**Suitable for use on ribbed V-belts as found in VW Polo, Golf, Passat, T4 and Audi. (Engine codes: ASN, BBJ)**

The **KL-0284-12** tensioner tool enables the automatic tensioner pulley to be released when replacing a ribbed V-belt.

**Advantage:**

The lever head attachment is reversible/interchangeable.



## KL-0280-757 K Locking Tool Set, Audi 3.2 FSI

**Applicable to Audi 3.2 FSI V6 petrol engines as found in Audi A4, A6, A8 etc. (Engine codes: AUK, BKH, BPK)**

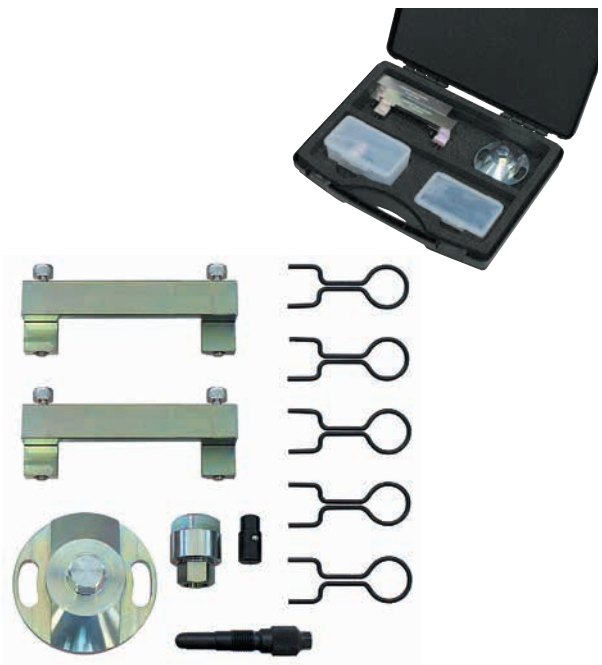
This set includes all the tools needed for the locking/positioning of camshafts and crankshaft, as well as for the locking of the timing chain tensioner.

An indispensable tool kit when replacing a timing chain or performing an engine repair.

**Scope of Delivery:**

**KL-0280-757 K Locking Tool Set, Audi 3.2 FSI**

Part No.	Description	Qty
KL-0280-7051	Adaptor with Guide Pin for Crankshaft	1
KL-0280-7052	Set of Retaining Pins, Ø 3mm (5-pc)	1
KL-0280-7053	Crankshaft-Turning Tool	1
KL-0280-7562	Locking Pin, M14x1.5	1
KL-0280-7561	Locking Tool Set for Camshaft	1
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-2002	Plastic Storage Box, 53x107x40mm	1
KL-4990-1107	Plastic Storage Case	1





## KL-0280-758 K

### Locking Tool Set, vw 3.2 and 3.6 VR6 FSI

**Suitable for use on VW-Audi and Škoda vehicles equipped either with a 3.2 or 3.6 VR6 FSI petrol engine;**  
**such as VW Passat, Touareg, Eos; Audi Q7 and Škoda Superb etc.**  
**(Engine code: AXZ, BHK, BHL, BWS, CDVA)**

Designed for the locking/positioning of camshafts and chain drive sprockets for high-pressure pump. The set also includes tools to lock the auxiliary drive belt tensioner (ribbed V-belt) in position. Indispensable tool kit when replacing a timing chain or performing an engine repair.

#### Scope of Delivery:

#### KL-0280-758 K Locking Tool Set, VW 3.2 and 3.6 VR6 FSI

Part No.	Description	Qty
KL-0280-7582	Setting Plate	1
KL-0280-7551	Camshaft Alignment Tool Set (2-piece)	1
KL-0280-7583	Setting Tool for Fixing Drive Chain Sprockets	1
KL-0280-7581	Locking Pin (angled), Ø 4.9mm	1
KL-4990-2002	Plastic Storage Box, 53x107x40mm	1
KL-4990-1107	Plastic Storage Case	1

## KL-0280-760

### Locking Tool Set, vw 3.7/4.2 FSI

**Suitable for use on VW-Audi vehicles equipped with either a 3.7 or 4.2 V8 FSI petrol engine;**  
**such as VW Touareg, Phaeton and Audi S4, A6/S6/RS6, Allroad, S8 etc.**  
**(Engine codes: ABZ, AHC, AKG, AKH, ANK, AQH, AQJ, ARS, ASG, AVP, AWW, AXQ, BAS, BAT, BBD, BBK, BCY, BFL, BFM, BGH, BGJ, BHF, BHX, BRV)**

This tool set is designed for the locking/positioning of engine shafts such as camshafts and crankshaft. The kit also includes tools to lock/position and adjust the timing belt tensioner and the hall-effect sensor encoder wheel, as well as for the removal/installation of the Visco fan. Indispensable tool set when replacing a timing belt/timing chain or performing an engine repair.

#### Scope of Delivery:

#### KL-0280-760 Locking Tool Set, VW 3.7/4.2 FSI

Part No.	Description	Qty
KL-0280-7600 K	Locking Tool Set, VW 3.7/4.2 FSI	1
KL-0280-2401 A	Locking Tool for Camshaft	1

#### Scope of Delivery:

#### KL-0280-7600 K Locking Tool Set, VW 3.7 and 4.2 FSI

Part No.	Description	Qty
KL-0149-131	Pin-Type Face Spanner, Ø 14-100mm, pin Ø 5mm	1
KL-0180-3026	Retaining Pin, Ø 2.6mm	1
KL-0280-10	Locking Pin, Audi V6	1
KL-0280-222	Locking Pin (angled), Ø 4mm	1
KL-0280-2402 A	Adjustment Tool for Timing Belt Tensioner	1
KL-0280-6011 A	Holding Tool for Timing Chain Tensioner	1
KL-0280-6102	Locking Pin, Ø 7mm	1
KL-0286-11	Guide Pin Set for Front-End Carrier, VW-Audi	1
KL-0280-7053	Crankshaft-Turning Tool	1
KL-1380-2213 A	Locking Pin, Ø 4.9mm	1
KL-0280-7541	Crowfoot Wrench, Size (waf) 32mm	1
KL-0280-7532	Wedge	1
KL-0280-7601	Adjustment Tool for Camshaft	1
KL-0280-7602	Locking Tool for Camshaft (2 pcs)	1
KL-0280-7603	Locking Tool for Camshaft (2 pcs)	1
KL-0284-91 A	Adjustment Tool for Timing Belt Tensioner, 240mm	1
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-1107	Plastic Storage Case	1



## KL-0280-24 A

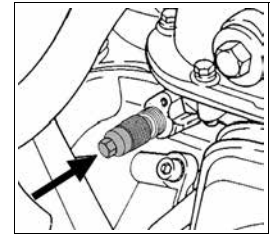
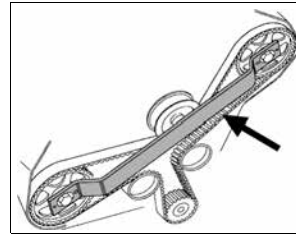
### Locking Tool Set, VW-Audi 3.7 and 4.2

**Suitable for use on VW-Audi 3.7 and 4.2 V8 petrol engines as found in Audi A6, S6, A8; VW Touareg, Phaeton.**  
**(Engine codes: ABZ, AKC, ANK, AQF, AQG, AQJ, ARS, ARU, ASG, AUW, AVN, AWN, AXQ, BGH, BGJ und BHX)**

This tool set is designed for the locking/positioning of engine shafts such as camshafts and crankshafts. The kit also includes tools for locking/positioning and adjusting the timing belt tensioner. It is required when replacing a timing belt or during an engine repair.

**Scope of Delivery: KL-0280-24 A Locking Tool Set, VW-Audi 3.7 and 4.2**

Part No.	Description	Qty
KL-0280-2401 A	Locking Tool for Camshaft	1
KL-0280-2402 A	Adjuster for Timing Belt Tensioner	1
KL-0280-10	Locking Pin, Audi V6	1
KL-0180-3017	Retaining Pin, Ø 1.7mm	1



## KL-0280-761 K

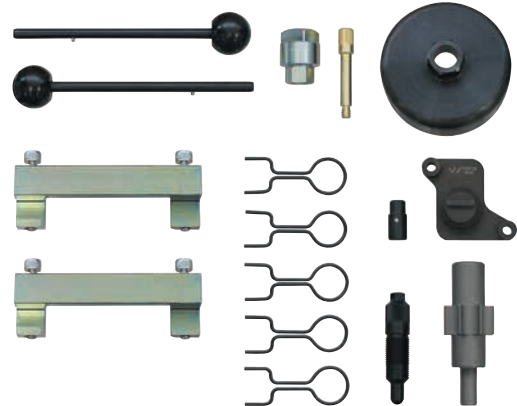
### Locking Tool Set, VW-Audi 4.2, 5.0, 5.2 FSI

**Applicable to VW-Audi vehicles equipped with either a 4.2 V8 FSI, 5.0 or 5.2 V10 FSI petrol engine such as VW Touareg; Audi RS4, RS6, S5 Coupé/Convertible, A6/ S6, Allroad, A8/S8, Q7, R8 etc.**  
**(Engine codes: BAR, BNS, BSM, BUH, BUJ, BVJ, BXA, BYH, CAUA, CDRA)**

The set is designed for the locking/positioning of camshafts, balance shaft, crankshaft, and timing chain tensioner. Also includes a tool to rotate the crankshaft. An indispensable tool kit when replacing a timing chain or performing an engine repair.

**Scope of Delivery: KL-0280-761 K Locking Tool Set, VW-Audi 4.2, 5.0, 5.2 FSI**

Part No.	Description	Qty
KL-0280-10	Locking Pin, Audi V6	1
KL-0280-7592	Guide Pin Set (2-piece set)	1
KL-0280-7565	Tool for Timing Chain	1
KL-0280-7561	Locking Tool Set for Camshaft	1
KL-0280-7051	Adaptor with Guide Pin for Crankshaft	1
KL-0280-7052	Set of Retaining Pins, Ø 3mm (5-piece set)	1
KL-0280-7612	Crankshaft-Rotating Tool	1
KL-0280-7611	Locking Tool for Balance Shaft	1
KL-0280-7613	Locking Pin, M8	1
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-2002	Plastic Storage Box, 53x107x40mm	1
KL-4990-1107	Plastic Storage Case	1



## KL-0580-711 K

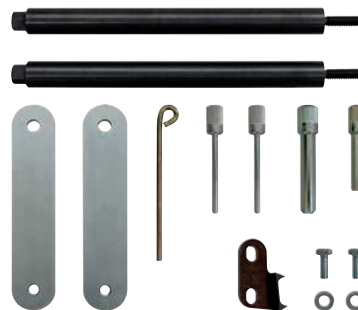
### Locking Tool Set, Mini

**Suitable for use on Mini 1.4 and 1.6 engines; as found in Mini Clubman, One D, Cooper D. (Engine codes: W16D16 (9HZ), W16D16U0, W17D14)**

Designed for the locking/positioning of camshaft, crankshaft, high-pressure pump and flywheel. Kit also contains a tool to lock the auxiliary drive belt tensioner (ribbed V-belt). An indispensable tool set when replacing a timing belt or performing an engine repair.

**Scope of Delivery: KL-0580-711 K Locking Tool Set, Mini**

Part No.	Description	Qty
KL-0580-7110	Support Guide Kit	1
KL-0580-7113	Locking Tool for Flywheel	1
KL-0680-2203 A	Locking Pin, Ø 8mm	1
KL-0680-2201 A	Locking Pin, Ø 11mm	1
KL-0680-2202 A	Locking Pin, Ø 4.5mm	2
KL-0580-1201	Retaining Pin	1
KL-4990-2001	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1





## KL-0580-82 KB

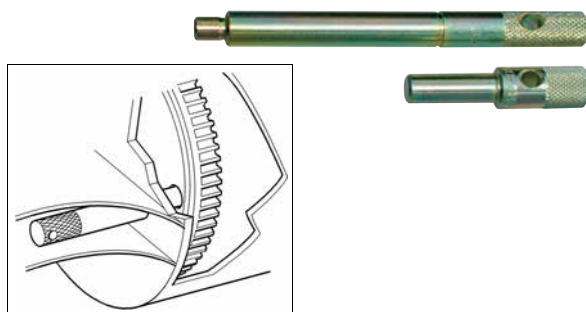
### Locking Tool Set, BMW

Applicable to vehicles equipped with either a 1.6, 2.0 or 3.0 BMW engine such as BMW 1 Series, 3 Series, 5 Series, 7 Series, X1, X3, X5, X6; Mini Clubman, Countryman, Cooper D, Cooper SD, One D. (Engine codes: N47, N47-C16K1, N47-C16U1, N47-C20K1, N47-C20U1, N47-D20A, N47-D20C, N47-D20D, N47-D20K0, N47-D20K1, N47-D20O0, N47-D20O1, N47-D20U0, N47-D20U1, N47S-D20B, N47S-D20D, N47S-D20T0, N47T-D20K1, N47T-D20O1, N47T-D20U1, N57-D30A, N57-D30A0, N57-D30O0, N57-D30O1, N57-D30T0, N57-D30U0)

Designed for the locking/positioning of camshafts and crankshaft. An indispensable tool set when replacing a timing chain or performing an engine repair.

#### Scope of Delivery: KL-0580-82 KB Locking Tool Set, BMW

Part No.	Description	Qty
KL-0580-824 B	Locking Tool for Crankshaft	1
KL-4041-3160	Screwdriver Bit Socket, T60	1
KL-0580-1201	Retaining Pin	1
KL-0580-821 A	Locking Pin for Flywheel	1
KL-0580-822 A	Locking Tool for Camshaft	1
KL-0580-823 A	Turning Tool for Crankshaft Pulley	1
KL-0580-8290 A	Plastic Storage Case with Insert	1



## KL-0580-100

### Locking Tool Set, BMW

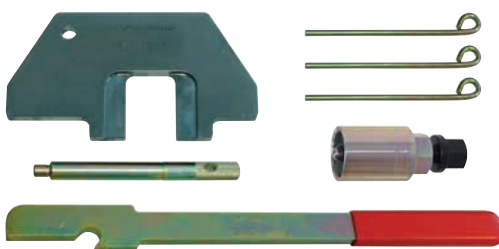
Applicable to BMW 4-cylinder diesel engines (M41), 6-cylinder diesel engines 2.5 (M51) as well as Opel/Vauxhall Omega 2.5 TD.

Designed to lock the flywheel and injection pump sprocket when replacing a timing chain or during an engine repair.

#### Scope of Delivery: KL-0580-100 Locking Tool Set, BMW

Part No.	Description	Qty
KL-0580-10	Locking Pin, Ø 11.8/8mm	1
KL-0580-11	Locking Pin, Ø 9.9mm	1

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## KL-0580-101

### Locking Tool Set, BMW

Applicable to BMW 1.7 4-cylinder and 2.5 6-cylinder Diesel engines as found in BMW 3 Series (E36), 5 Series (E34/39), 7 Series; Opel/Vauxhall Omega; Land Rover, Range Rover. (Engine codes: 256T, M41, M51)

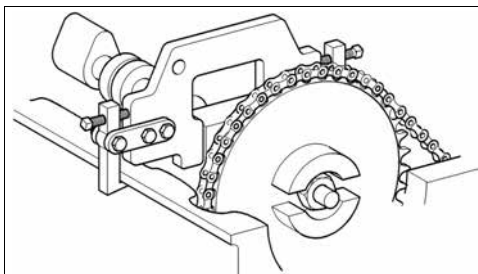
This tool set is designed for the locking of camshaft and crankshaft, as well as for the tensioning and locking of cam chain tensioners. The kit also includes a tool for the removal of injection pump sprockets.

#### Technical Data:

Weight:	3.0kg
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#### Scope of Delivery: KL-0580-101 Locking Tool Set, BMW

Part No.	Description	Qty
KL-0580-2	Puller for Injection Pump Sprocket, BMW/Opel/Vauxhall	1
KL-0580-6	Locking Tool (M41/M51, camshaft)	1
KL-0580-10	Locking Pin, Ø 11.8/8mm (flywheel)	1
KL-0580-15	Tensioner Tool, Timing Chain, BMW	1
KL-0580-1201	Retaining Pin, Ø 4mm (chain tensioner)	3
KL-0580-1090	Plastic Storage Case	1



## KL-0580-2

### Puller for Injection Pump Sprocket

Application: BMW 4-cylinder Diesel engines (M41), 6-cylinder Diesel engines 2.5 (M51), also Opel/Vauxhall Omega 2.5 TD.

For loosening the injection pump sprocket from the shaft when dismantling an injection pump.

## KL-0580-7 KB Locking Tool Set, BMW

Applicable to BMW 2.0 4-cylinder Diesel engines (M47), 2.5 and 3.0 6-cylinder Diesel engines (M51, M57) as found in BMW 1 Series, 3 Series, 5 Series, 6 Series, 7 Series, X3, X5, X6.

(Engine codes: 204D4, 256D2, 306D2, 306D3, 306D4, 306D5, D30T2, YD30T2)

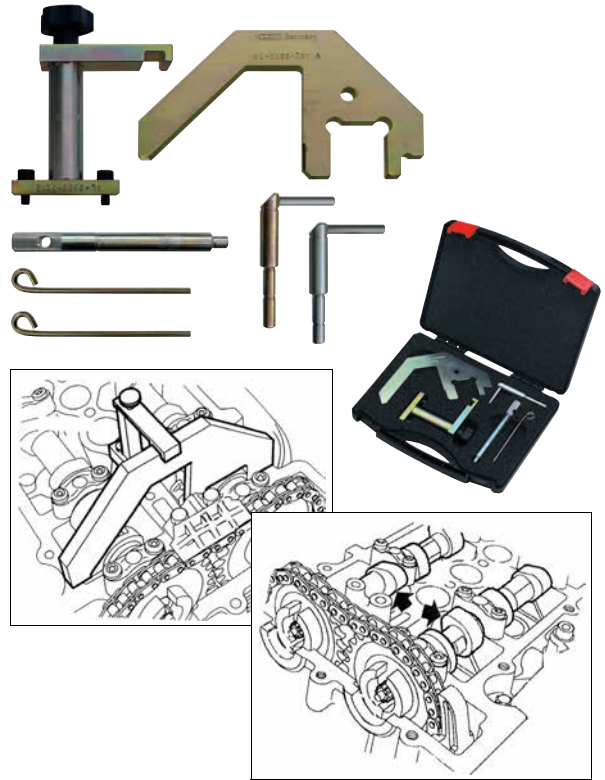
Designed for the locking/positioning of engine shafts such as camshafts and crankshaft, as well as of the flywheel and timing chain tensioner. An indispensable tool set when replacing a timing chain or performing an engine repair.

**Note:** For turning the crankshaft, the KL-0580-823 A crankshaft tool (accessory) is needed.

### Scope of Delivery:

#### KL-0580-7 KB Locking Tool Set, BMW

Part No.	Description	Qty
KL-0580-10	Locking Pin	1
KL-0580-1201	Retaining Pin	2
KL-0580-701 A	Locking Plate	1
KL-0580-702 A	Holder for Locking Plate	1
KL-0580-703 B	Locking Pin, Ø 8mm	1
KL-0580-704 B	Locking Pin, Ø 8.25/8mm	1
KL-0580-7090 A	Plastic Storage Case with Insert	1



## KL-0580-21 Puller for Injection Pump Sprocket, BMW

Applicable to BMW M47, M47R, M47TU, M51, M57, M57TU engines. (204D1, 204D3/TD4, 256D1, 306D1, 306D1/TD6, Y25DT)

Tool for fixing the injection pump sprocket and pushing out the injection pump shaft. Necessary when removing an injection pump.

### Scope of Delivery:

#### KL-0580-21 Puller for Injection Pump Sprocket, BMW

Part No.	Description	Qty
KL-0580-2101	Housing	1
KL-0580-2102	Spindle, M18x1.5, with O-Ring	1
KL-0580-2103	Pressure Piece	1
KL-0580-2104	Threaded Sleeve	1



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## KL-0580-22 Injection Pump Removal Tool

Applicable to BMW vehicles equipped with either an N47, N47S, N47T or N57 engine, e.g. E90.

Tool for fixing the injection pump sprocket when removing the injection pump.

### Scope of Delivery:

#### KL-0580-22 Injection Pump Removal Tool

Part No.	Description	Qty
KL-0580-2201	Threaded Sleeve	1
KL-0580-2202	Drive (waf) 20/12mm	1



### Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



DMK 200 CODE:2641240 - Torque Wrench Dremaster 40-200Nm







## KL-0580-712 K

### Locking Tool for Flywheel

Applicable to BMW, Mini 1.4, 1.6, 1.8, 2.0, 2.5, 3.0 petrol and Diesel engines (M47T2, M47TU, M57T2, M57TU, M67, N45, N45T, N46, N46T, N51, N52, N53, N54, W17) as fitted to e.g. BMW 1 Series, 3 Series, 5 Series, 6 Series, 7 Series, X1, X3, X5, X6, Z4 and Mini One D.

(Engine codes: N43 B16A/AA, N43 B16AA, N43 B16AA/O0, N43 B20A, N43 B20A/AA, N43 B20AA, N43 B20AY, N43 B20K0, N45 B16A, N45 B20AA, N45T B16AC, N46 B18, N46 B20, N46 B20B, N46T B20, N46T B20B, N46T B20BD, N46T B20BZ, N46T B20O2, N52 B25A, N52 B25AE, N52 B25AF, N52 B25BE, N52 B25O1, N52 B30A, N52 B30AF, N52K B25A, N52K B25A/O1, N52K B25AE, N52K B30A, N52K B30A/O1, N52K B30AE, N52K B30AF, N53 B25A, N53 B30A, N53 B30A/O0, N54 B30A, N54 B30A/AA, W17D14)

The tool is needed to lock the flywheel while loosening/tightening the crankshaft central screw.

**Scope of delivery:**

**KL-0580-712 K Locking Tool for Flywheel**

Part No.	Description	Qty
KL-0580-712	Locking Tool for Flywheel	1
KL-4990-1003	Plastic Storage Case	1

## KL-0580-8133 A

### Counter-Holding Tool for Crankshaft



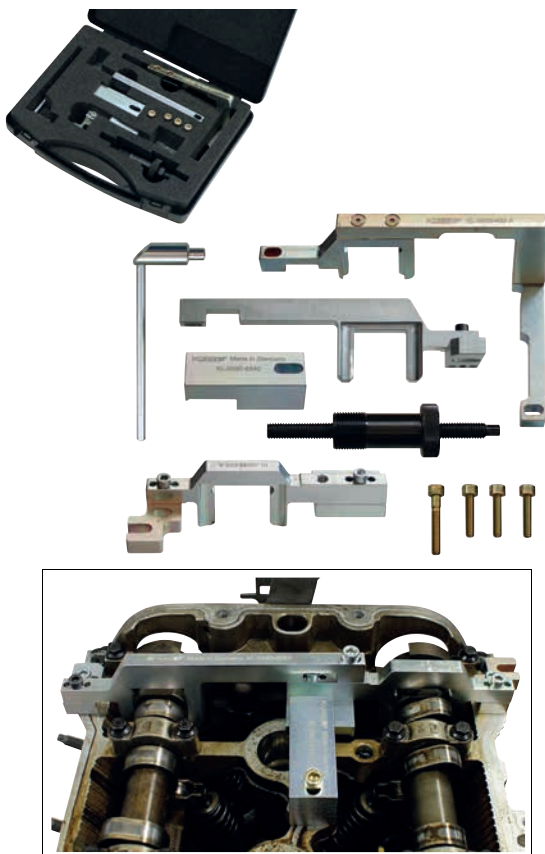
Applicable to BMW and Mini 1.4, 1.6, 1.8 and 2.0 petrol engines.

(Engine codes: N12, N14, N16, N18, N40, N42, N45, N45T, N46, N46T)

This tool is designed to counter-hold the crankshaft pulley while loosening/tightening the crankshaft central screw.

For example, included in tool set **KL-0580-813 KB**.

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## KL-0580-83 KA

### Locking Tool Set, BMW 1.4 and 1.6 16V

Applicable to Mini 1.4 and 1.6 litre engines (engine codes: N12, N14, N16) and PSA engines (engine codes: EP3, EP3C, EP6, EP6C, EP6CDT, EP6DT, EP6DTE, EP6DTS) as installed in Mini Cooper (R55, R56), Mini Cooper S (R55, R56), Mini One (R56), Citroën C4, C4 Picasso and Peugeot 207, 308.

Designed to be used for locking/positioning camshafts and crankshaft as well as for adjusting the VANOS adjustment units. Kit also includes a tool to pre-tension the timing chain tensioner.

An indispensable tool set when replacing a timing chain, removing and installing VANOS adjustment units or performing engine repairs.

**Scope of Delivery:**

**KL-0580-83 KA Locking Tool Set, BMW 1.4 and 1.6 16V**

Part No.	Description	Qty
KL-0580-831 A	Locking Pin for Flywheel	1
KL-0580-832 A	Locking Tool for Camshaft	1
KL-0580-833 A	Locking Tool for Camshaft	1
KL-0580-834 A	Locking Tool for Camshaft	1
KL-0580-8113 B	Pre-Tensioning Tool for Timing Chain	1
KL-0580-8390 A	Plastic Storage Case	1

## KL-0580-44 KA Locking Tool Set, BMW N40 and N45

**Applicable to BMW 1.6 (N40 / N45) TwinCam petrol engines.**  
**Fitted to BMW 1 Series (E81/E87) and 3 Series (E46/E90).**  
**(Engine codes: N40 B16A, N45 B16A, N45T B16AC)**

Tool set for the locking/positioning of camshafts and crankshaft, as well as for pre-tensioning the timing chain tensioner. The kit also includes a tool to adjust the VANOS adjustment units. Indispensable kit when replacing a timing chain, removing and installing VANOS adjustment units or performing an engine repair.  
For accessories, please see **KL-0580-813 KB**.

**Scope of Delivery: KL-0580-44 KA Locking Tool Set, BMW N40 and N45**

Part No.	Description	Qty
KL-0580-441 A	Locking Tool for Camshaft (inlet)	1
KL-0580-442 A	Locking Tool for Camshaft (exhaust)	1
KL-0580-443 A	Setting Gauge (Vanos)	1
KL-0580-8111 A	Retaining Pin for Flywheel	1
KL-0580-8113 B	Pre-Tensioning Tool for Timing Chain	1
KL-0580-8115-3 A	Knurled Screw	1
KL-0580-4490 A	Storage Case with Insert	1



## KL-0580-813 KC Locking Tool Set, BMW

**Application: 1.6, 1.8 and 2.0 TwinCam petrol engines. For example, fitted to BMW 1 Series (E81, E82, E87, E88), 3 Series (E46, E90, E91, E92, E93), 5 Series (E60, E61), X1 (E84), X3 (E83), Z4 (E85, E86). (Engine codes: N40 B16A, N42 B18A, N42 B20A, N45 B16A, N45T B16AC, N46 B18, N46 B20, N46 B20B, N46T B20, N46T B20B, N46T B20BD, N46T B20BZ, N46T B20O2)**

Very useful tool set for locking/positioning balance shafts, locking the timing chain tensioner, as well as for holding the crankshaft in position while loosening/tightening the crankshaft central screw.

For accessories, please see **KL-0580-44 KA, KL-0580-810 KA**.

**Scope of Delivery: KL-0580-813 KC Locking Tool Set, BMW**

Part No.	Description	Qty
KL-0580-8131 A	Alignment/Locking Tool for Balance Shaft	1
KL-0580-8132 A	Setting Gauge for Balance Shaft	1
KL-0580-8133 A	Counter-Holding Tool for Crankshaft	1
KL-0580-8134 A	Support for Counter-Holding Tool	1
KL-0580-1201	Retaining Pin, Ø 4mm	1
KL-0580-8111 A	Locking Pin for Flywheel	1
KL-0580-7513	Alignment/Locking Tool for Balance Shaft	1
KL-0580-8139 A	Plastic Storage Case	1



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## KL-0580-751 K Locking Tool Set, BMW

**Applicable to 1.6 and 2.0 BMW engines; as found in BMW 1 Series, 3 Series, 5 Series.**  
**(Engine codes: N43-B16A, N43-B16AA, N43-B16O0, N43-B20A, N43-B20AA, N43-B20AY, N43-B20K0, N43-B20U0)**

These tools are used for the locking/positioning of engine shafts such as camshafts, crankshaft, balance shaft and camshaft sensor wheels, as well as for pre-tensioning the timing chain tensioner. An indispensable tool set when replacing a timing chain or performing an engine repair.

**Scope of Delivery: KL-0580-751 K Locking Tool Set, BMW**

Part No.	Description	Qty
KL-0580-7513	Alignment/Locking Tool for Balance Shaft	1
KL-0580-7512	Locking Tool for Camshaft Sensor	1
KL-0580-7511	Locking Tool for Camshaft	1
KL-0580-1201	Retaining Pin	2
KL-0580-8111 A	Locking Pin for Flywheel	1
KL-0580-8113 B	Pre-Tensioning Tool for Timing Chain	1
KL-0580-7519	Plastic Storage Case	1





## KL-0580-752 K Locking Tool Set, Mini

**Applicable to Mini 1.6 petrol engines as found in Mini One, Cooper and Cooper S. (Engine codes: W10B16AA, W10B16BA, W11B16AA)**

Designed for the locking/positioning of camshafts. Kit also contains tools to pre-tension the timing chain tensioner and to support the engine. An indispensable tool set when replacing a timing chain or performing an engine repair.

### Scope of Delivery:

#### KL-0580-752 K Locking Tool Set, Mini

Part No.	Description	Qty
KL-0580-7521	Pre-Tensioning Tool for Timing Chain	1
KL-0580-7522	Locking Tool for Camshaft	1
KL-0580-7523	Retaining Tool	1
KL-4990-2001	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1



## KL-0580-754 K Belt Tool Set, Mini

**Suitable for use on Mini One and Cooper S 1.6 petrol engines. (Engine codes: W10, W11)**

Designed for the tensioning, releasing and locking of V-ribbed belt tensioners.

### Scope of Delivery:

#### KL-0580-754 K Belt Tool Set, Mini

Part No.	Description	Qty
KL-0580-7541	Adjustment Tool for V-ribbed Belt Tensioners	1
KL-0580-7542	Adjustment Tool for V-ribbed Belt Tensioners	1
KL-0580-7543	Retaining Pin, Ø 4mm	1
KL-0580-7544	Retaining Pin, Ø 4.5mm	1
KL-4990-2001	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1

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## KL-0580-810 KA Locking Tool Set

**Applicable to BMW 1.8 and 2.0 TwinCam (DOHC) petrol engines as fitted to: BMW 1 Series (E87), 3 Series (E46/E90/E91), 5 Series (E60 / E61), X1 (E84), X3 (E83) and Z4 (E85).**

**(Engine codes: N42 B18A, N42 B20A, N46 B18, N46 B20, N46 B20B, N46T B20, N46T B20B, N46T B20BD, N46T B20BZ, N46T B20O2)**

This tool set is used for the locking/positioning of engine shafts such as camshafts and crankshaft as well as for the alignment of the VANOS Adjustment Unit.

It is required when replacing a timing chain, for the removal and replacement of camshafts and VANOS Adjustment Units, and for engine repairs.

### Scope of Delivery:

#### KL-0580-810 KA Locking Tool Set, BMW

Part No.	Description	Qty
KL-0580-8111 A	Retaining Pin for Flywheel	1
KL-0580-8112 A	Camshaft Rotation Tool	1
KL-0580-8113 B	Pre-Tensioning Tool for Timing Chain	1
KL-0580-8114 A	Setting Gauge (Vanos)	1
KL-0580-8115 A	Locking Tool for Camshaft	1
KL-0580-8121 A	Torsion Spring Removal/Installation Tool	1
KL-0580-8122 A	Locking Tool for Camshaft	1
KL-0580-8123 A	Locking Tool for Camshaft	1
KL-0580-8124 A	Clips (8 units)	1
KL-0580-8125 A	Holding Tool for Bearing Bracket	1
KL-0580-8190	Plastic Storage Case	1

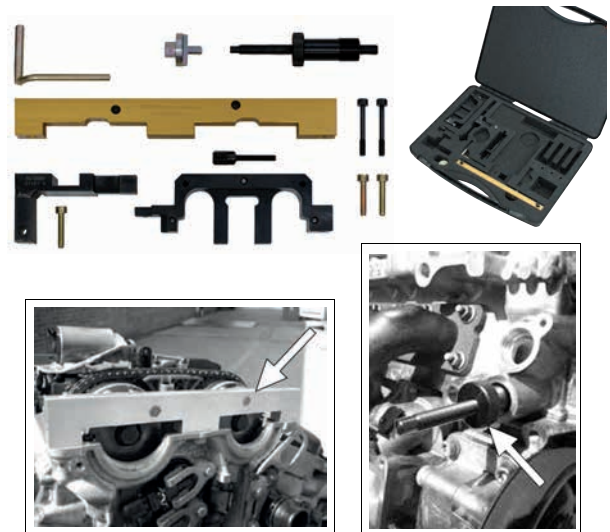
## KL-0580-811 KA Locking Tool Set, BMW

Applicable to BMW 1.8 and 2.0 TwinCam (DOHC) petrol engines, e.g. as found in: BMW 1 Series (E87), 3 Series (E46/E90/E91), 5 Series (E60/E61), X1 (E84), X3 (E83) and Z4 (E85). (Engine codes: N42 B18A, N42 B20A, N46 B18, N46 B20, N46 B20B, N46T B20, N46T B20B, N46T B20BD, N46T B20BZ, N46T B20O2)

This tool set is used for checking/setting the camshaft timing, as well as for the removal, installation, and alignment of VANOS Adjustment Units.

Scope of Delivery: KL-0580-811 KA Locking Tool Set ,BMW

Part No.	Description	Qty
KL-0580-8111 A	Retaining Pin for Flywheel	1
KL-0580-8112 A	Camshaft Rotation Tool	1
KL-0580-8113 A	Pre-Tensioning Tool for Timing Chain	1
KL-0580-8114 A	Setting Gauge (VANOS)	1
KL-0580-8115 A	Locking Tool for Camshaft	1
KL-0580-8190	Storage Case with Insert	1



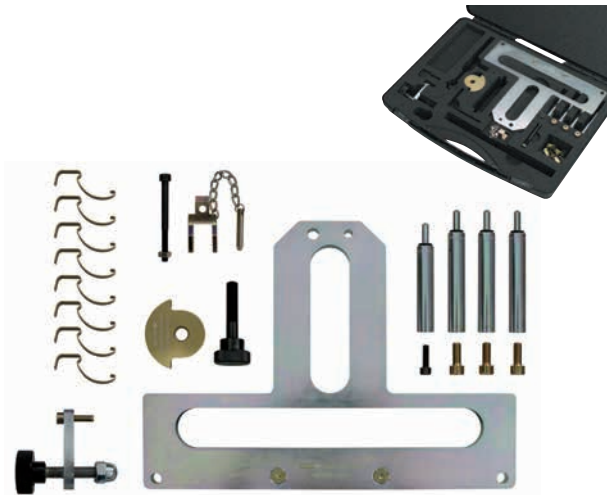
## KL-0580-812 KA Locking Tool Set, BMW

Applicable to BMW 1.8 and 2.0 TwinCam (DOHC) petrol engines as found in: BMW 1 Series (E87), 3 Series (E46/E90/E91), 5 Series (E60/E61), X1 (E84), X3 (E83) and Z4 (E85). (Engine codes: N42 B18A, N42 B20A, N46 B18, N46 B20, N46 B20B, N46T B20, N46T B20B, N46T B20BD, N46T B20BZ, N46T B20O2)

This tool set is designed to be used in conjunction with the KL-0580-811 KA for the removal and installation of camshafts.

Scope of Delivery: KL-0580-812 KA Locking Tool Set, BMW

Part No.	Description	Qty
KL-0580-8121 A	Torsion Spring Removal/Installation Tool	1
KL-0580-8122 A	Locking Tool for Camshaft	1
KL-0580-8123 A	Locking Tool for Camshaft	1
KL-0580-8124 A	Clips (8 units)	1
KL-0580-8125 A	Holding Tool for Bearing Bracket	1
KL-0580-8190	Storage Case with Insert	1



## KL-0580-43 KA Locking Tool Set, BMW

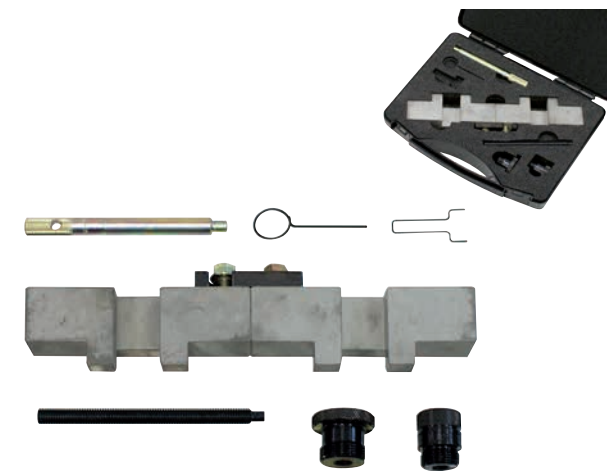
Applicable to BMW 4- and 6-cylinder TwinCam (DOHC) engines M42, M44, M50, M52, M52TU, M54 and M56 with VANOS System.

This tool set is designed to be used for the locking/positioning of engine shafts such as camshafts and crankshaft, as well as for pre-tensioning the timing chain when adjusting the camshaft timing. It is required, for example, when replacing a timing chain, removing/installing a VANOS System, or during an engine repair.

For accessories, please see KL-0580-41 KA, KL-0580-42 KA.

Scope of Delivery: KL-0580-43 KA Locking Tool Set, BMW

Part No.	Description	Qty
KL-0580-431 A	Pre-Tensioning Tool for Timing Chain, BMW	1
KL-0580-432 A	Retaining Pins for Chain Tensioner	1
KL-0580-4	Locking Tool, BMW M42 and M50	1
KL-0580-10	Locking Pin, Ø 11.8/8mm	1
KL-0580-4390	Plastic Storage Case	1

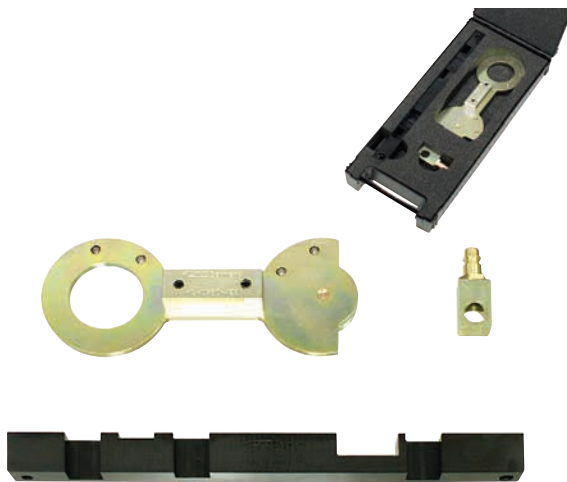


## KL-0580-41 A Adjusting Wrench, BMW

Applicable to BMW 4- and 6-cylinder TwinCam (DOHC) engines M42, M44, M50 and M52 with VANOS system.

Required when removing and installing VANOS units with diaphragm spring.





## KL-0580-42 KA

### Tool Set for BMW Double-VANOS

Applicable to BMW TwinCam (DOHC) petrol engines M52TU, M54 und M56 (206S4, 226S1, 256S4, 256S5, 286S2, 306S3) as found in 3 Series (E46, Z3); 5 Series (E39, E60, E61); 7 Series (E38, E65, E66); X3 (E83); X5 (E53); Z4 (E85).

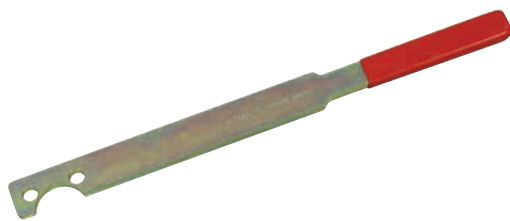
This tool set allows for the trouble-free and professional removal and installation of Double-VANOS Adjustment Units.

For accessories, please see **KL-0580-43 KA**.

#### Scope of Delivery:

#### KL-0580-42 KA Tool Set for BMW Double-VANOS

Part No.	Description	Qty
KL-0580-421	Compressed Air Adaptor	1
KL-0580-422	Setting Gauge (VANOS)	1
KL-0580-423	Mounting Plate	1
KL-0580-4290 A	Plastic Storage Case	1



## KL-0582-1

### Holding Tool for Viscous Fan, BMW

Suitable for use on BMW engines, e.g. M20 and M30.

Designed to counter-hold the fan shaft when removing the viscous fan.

#### Technical Data:

Hole pitch:	38mm
Weight:	500g



## KL-0582-2

### Holding Tool for Viscous Fan, BMW

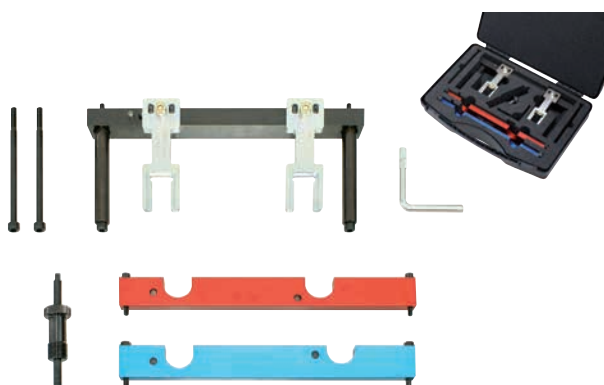
Suitable for use on BMW engines, e.g. M10, M20, M21, M30, M50, M51, M52, M52TU, M54, M56, M70, M73, S14 and S38.

Designed to counter-hold the fan shaft when removing the viscous fan.

#### Technical Data:

Hole pitch:	44.5mm
Weight:	400g

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## KL-0580-45 KA

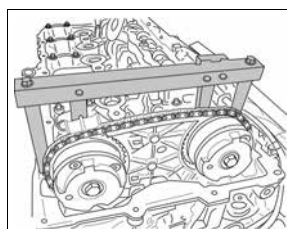
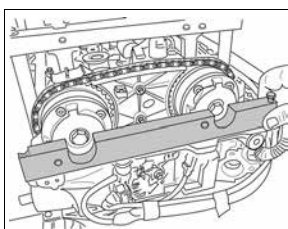
### Locking Tool Set,

### BMW N51, N52, N52K, N53, N54 and N55

Suitable for use on BMW 2.5, 3.0 and 3.5 litre petrol engines with Valvetronic (Engine codes: N51, N52, N52K, N55) or with direct injection (Engine codes: N53, N54) as found in 1 Series (E81 / E82 / E87); 3 Series (E90 / E91 / E92 / E93); 5 Series (E60 / E61); 6 Series (E63 / E64); 7 Series (E65 / E66); X3 (E83); X5 (E70); Z4 (E85 / E86).

This tool set is designed to be used for the locking/positioning of camshafts and crankshaft, as well as for pre-tensioning the timing chain tensioner. It also includes a tool for adjusting the VANOS adjustment units.

An indispensable tool set when replacing a timing chain, removing/installing VANOS adjustment units and during engine repairs.



#### Scope of Delivery:

#### KL-0580-45 K Locking Tool Set, BMW N51, N52, N52K, N53, N54 and N55

Part No.	Description	Qty
KL-0580-451 A	Locking Pin for Flywheel	1
KL-0580-452 A	Locking Tool for Camshafts	1
KL-0580-453 A	Setting Gauge (Vanos), blue	1
KL-0580-454 A	Setting Gauge (Vanos), red	1
KL-0580-8113 B	Pre-Tensioning Tool for Timing Chain	1
KL-0580-4590 A	Plastic Storage Case with Insert	1

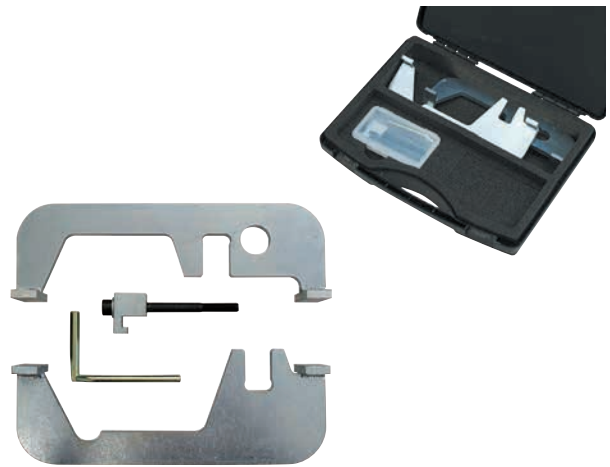
## KL-0580-753 K Locking Tool Set, BMW

Applicable to BMW 3.6, 4.0, 4.4, 4.8 and 6.0 litre engines as found in BMW 5 Series, 6 Series, 7 Series, X5. (Engine codes: N62-B36A, N62-B40A, N62-B44A, N62-B48A, N62-B48B, N73-B60A)

Designed for the locking/positioning of engine shafts such as camshafts and crankshaft, as well as for locking the flywheel. An indispensable tool set when replacing a timing chain or performing an engine repair.

Scope of Delivery: KL-0580-753 K Locking Tool Set, BMW

Part No.	Description	Qty
KL-0580-8111 A	Retaining Pin for Flywheel	1
KL-0580-7531	Locking Tool for Inlet Camshaft	1
KL-0580-7532	Locking Tool for Exhaust Camshaft	1
KL-0580-7533	Cam Tool Holder	1
KL-4990-2001	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1



## KL-0123-1 A Reaction Wrench, Size (waf) 32mm

Designed to counter-hold the viscous clutch drive shaft when removing/installing the viscous clutch on BMW and Ford vehicles.



Technical Data:

Size (waf):	32mm
Length:	280mm
Height:	11mm
Weight:	340g

## KL-0380-701 K Locking Tool Set, Mercedes OM651

Applicable to Mercedes-Benz vehicles with a 2.1 litre as well as Jeep vehicles with a 2.2 litre Common Rail Diesel engine. Engines fitted, for example, to: Mercedes-Benz C-Class (W204), E-Class (W207, W212), GLK (X204), CLS (W218) and Sprinter (W906); as well as Jeep Compass (MK) etc.

(Engine codes: OM 651.911, 651.912, 651.913, 651.916, 651.924, 651.925, 651.955, 651.956, 651.957, 651.961 and 651)

For locking camshafts and balance shafts, as well as for positioning/turning the crankshaft. An indispensable tool set when replacing a timing chain or performing an engine repair.

Scope of Delivery: KL-0380-701 K Locking Tool Set, Mercedes OM651

Part No.	Description	Qty
KL-0380-7011	Locking Tool, Balance Shaft	1
KL-0380-7012	Locking Tool Set, Camshaft	1
KL-0380-7013	Turning Tool, Crankshaft	1
KL-4990-1107	Plastic Storage Case	1



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## KL-0380-7010 K Locking Tool Set, Mercedes OM651

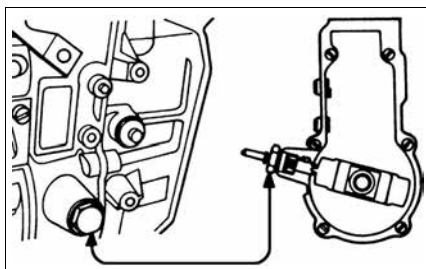
Applicable for Mercedes vehicles with a 2.1 litre, as well as Jeep vehicles with a 2.2 litre Common Rail Diesel engine. Engines fitted to, e.g.: Mercedes C-Class (W204), E-Class (W207, W212), GLK (X204), CLS (W218) and Sprinter (W906), as well as to Jeep Compass (MK) etc. (Engine codes: OM 651.911, 651.912, 651.913, 651.916, 651.924, 651.925, 651.955, 651.956, 651.957, 651.961 and 651)

For locking the camshafts as well as for positioning/turning the crankshaft. An indispensable tool kit when changing a timing chain or performing an engine repair.

Scope of Delivery: KL-0380-7010 K Locking Tool Set, Mercedes OM651

Part No.	Description	Qty
KL-0380-7012	Locking Tool Set, Camshaft	1
KL-0380-7013	Turning Tool, Crankshaft	1
KL-4990-1107	Plastic Storage Case	1





## KL-0343-3 Locking Screw

Suitable for use on Mercedes engines OM601, OM602 and OM603.

The injection pump locking screw allows the injection pump (VE pump) to be removed without loss of pump timing.

## KL-0343-5 Locking Screw



Suitable for use on Mercedes engines OM602, OM604, OM605 and OM606 with Lucas Injection Pump.

The injection pump locking screw allows the injection pump to be removed without the loss of pump timing.

### Technical Data:

Weight:	27g
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## KL-0363-50 K Locking Tool Set, Mercedes



Applicable to Mercedes petrol engines M102, M103, M104, M111, M112, M113, M137, M155, M156, M272, M273, as well as Diesel engines OM601, OM602, OM603, OM605, OM606, OM611, OM612, OM613, OM629, OM642.

Designed for the locking/positioning of camshafts and for locking the flywheel. An indispensable tool set when changing a timing chain or performing an engine repair.

### Scope of Delivery:

#### KL-0363-50 K Locking Tool Set, Mercedes

Part No.	Description	Qty
KL-0363-501	Locking Device for Flywheel	1
KL-0363-502	Locking Device for Flywheel	1
KL-0384-10	Locking Tool	2
KL-0363-5090	Plastic Storage Case	1

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## KL-0384-10 Locking Tool, Mercedes



Applicable to Mercedes-Benz A-, B-, C-, CLC-, CLK-, CLS-, E-, G-, GL-, M-, R-, S-, SLK-, V-Class, Sprinter, Vito and Viano vehicles equipped with either a petrol engine (Engine codes: M104, M111, M112, M119, M120, M272, M273) or a Diesel engine with 4-valve-technology.

(Engine codes: OM605, OM606, OM611, OM612, OM613, OM614, OM628, OM629, OM640, OM642, OM643, OM646, OM646 EVO, OM647, OM648, OM649)

Designed to lock the camshafts when removing the cylinder head.

### Technical Data:

Ø:	5.8/6.0mm
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## KL-0312

### Puller for Chain Slider Bolts, Mercedes/BMW

Applicable to chain slider bolts on Mercedes and BMW; the kit includes puller bolts and adaptor disc.

**Scope of Delivery:**

**KL-0312 Puller for Chain Slider Bolts, Mercedes/BMW**

Part No.	Description	Qty
KL-0312-100	Puller (base tool with spindle)	1
KL-0312-0010	Puller Bolt, M6x30mm	1
KL-0312-0011	Puller Bolt, M8x30mm	1
KL-0312-0012	Puller Bolt, M8x60mm	1
KL-0312-0013	Adaptor Disc	1



## KL-0312-2

### Puller for Chain Slider Bolts, Mercedes/BMW

Applicable to chain slider bolts on Mercedes and BMW; the kit includes puller bolts and adaptor disc.

This short version is required for repairs where the radiator has not to be removed from the vehicle.

**Scope of Delivery:**

**KL-0312-2 Puller for Chain Slider Bolts, Mercedes/BMW**

Part No.	Description	Qty
KL-0312-200	Puller (base tool)	1
KL-0312-0010	Puller Bolt, M6x30mm	1
KL-0312-0011	Puller Bolt, M8x30mm	1
KL-0312-0012	Puller Bolt, M8x60mm	1
KL-0312-0013	Adaptor Disc	1



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## KL-0380-7101

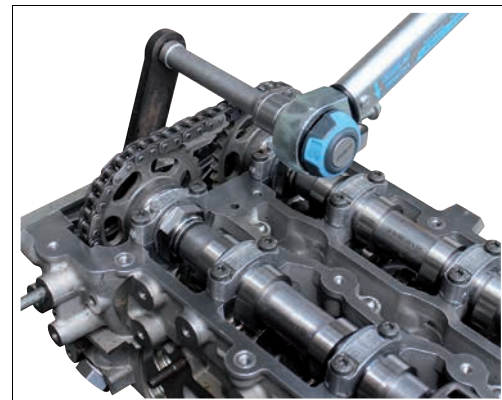
### External Hexalobular Socket, E14-1/2"

Suitable for use on Mercedes vehicles with a 2.1 litre, as well as Jeep vehicles with a 2.2 litre (OM651) Common Rail Diesel engine.

Engines fitted to: Mercedes C-Class (W204), E-Class (W207, W212), GLK (X204), CLS (W218) and Sprinter (W906), as well as Jeep Compass (MK) etc.

(Engine codes: OM651, 651.911, 651.912, 651.913, 651.916, 651.924, 651.925, 651.955, 651.956, 651.957, 651.961)

For the professional loosening/tightening of fastening screws (with Torx E14 profile) found at camshaft sprockets. The tool is used in conjunction with a 1/2" reversible ratchet or a 1/2" torque wrench. The external hexalobular socket is provided with an engraved torque conversion formula allowing the user to easily recalculate the necessary torque (due to the extended leverage) when tightening the fastening screw. Indispensable when changing a timing chain or performing engine repairs.







#### Advantages:

- Ensures neat separation of the old timing chain.
- Ensures safe and correct assembly of the new chain joint.
- Ensures correct riveting of the new timing chain.

## KL-0340-22 K

### Timing Chain Master Tool Kit, Mercedes

**Applicable to:** Mercedes M102, M112, M113, M271, M272, OM628, OM642, OM651, OM668 and Opel/Vauxhall petrol and Diesel engines with Simplex or Duplex timing chain.

**As installed in:** Mercedes A-Class (W168), B-Class (W246), C-Class (W202, W203, W204), E-Class (W207, W210, W211, W212), G-Class (W460, W461, W463), R-Class (W251), S-Class (W220, W221), CLS (W218, W219), CLK (W208, W209), SL (W129, W230), SLK (W170, W171, W172), ML (W163, W164, W166), GL (X164), GLK (X204), Sprinter (W906), Vaneo (W414), Viano (W639), Vito (W639), 190 (W201), 200-300 (W123), 200-500 / E (W124).

This timing chain tool kit allows for the quick and neat separation, pulling in and riveting of Simplex timing chains as well as of Duplex timing chains with the centre plate pressed-on as found in Mercedes engines.

#### Scope of Delivery:

##### KL-0340-22 K Timing Chain Master Tool Kit, Mercedes

Part No.	Description	Qty
KL-0340-20 A	Breaker Tool for Timing Chain	1
KL-0340-203	Clipping Punch, Ø 4mm (2 pieces)	1
KL-0340-205	Clipping Punch, Ø 3mm (2 pieces)	1
KL-0340-211	Riveting Tool (base tool)	1
KL-0340-2201	Multi Thrust Piece 1	1
KL-0340-2202	Multi Thrust Piece 2	1
KL-0340-2203	Centring Pin, M5	2
KL-0340-221	Assembly Insert Kit A	1
KL-0340-222	Assembly Insert Kit B	1
KL-0340-223	Assembly Insert Kit C	1
KL-0340-224	Assembly Insert Kit D	1
KL-0340-225	Assembly Insert Kit E	1
KL-0340-226	Assembly Insert Kit F	1
KL-0340-2090	Plastic Storage Case	1

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## KL-0340-23 K

### Timing Chain Base Tool Kit, Mercedes

**Applicable to:** Mercedes M271, OM651 and Opel/Vauxhall petrol and Diesel engines with Simplex timing chain.

**As installed in:** Mercedes B-Class (W246), C-Class (W203, W204), E-Class (W211, W212, W207), M-Class (W166), S-Class (W221), CLS (C218), CLK (W209), SLK (W171, W172), GLK (X204), Sprinter (W906), Viano (W639) and VITO (W639).

This timing chain tool kit allows for the quick and neat separation, pulling in and riveting of the Simplex timing chains that are found in Mercedes engines.

#### Advantages:

- Ensures neat separation of the old timing chain.
- Ensures safe and correct assembly of the new chain joint.
- Ensures correct riveting of the new timing chain.

#### Scope of Delivery:

##### KL-0340-23 K Timing Chain Tool Kit, Mercedes

Part No.	Description	Qty
KL-0340-20 A	Breaker Tool for Timing Chain	1
KL-0340-203	Clipping Punch, Ø 4mm (2 pieces)	1
KL-0340-205	Clipping Punch, Ø 3mm (2 pieces)	1
KL-0340-211	Riveting Tool (base tool)	1
KL-0340-2201	Multi Thrust Piece 1	1
KL-0340-2202	Multi Thrust Piece 2	1
KL-0340-2203	Centring Pin, M5	2
KL-0340-222	Assembly Insert Kit B	1
KL-0340-226	Assembly Insert Kit F	1
KL-0340-2090	Plastic Storage Case	1

## KL-0340-224

### Assembly Insert Kit D

For example, included in tool set **KL-0340-22 K**.



## KL-0340-9

### Universal Mounting Device for Timing Chain

**Suitable for use on Mercedes and Opel/Vauxhall petrol and Diesel engines both with Simplex and Duplex timing chains.**

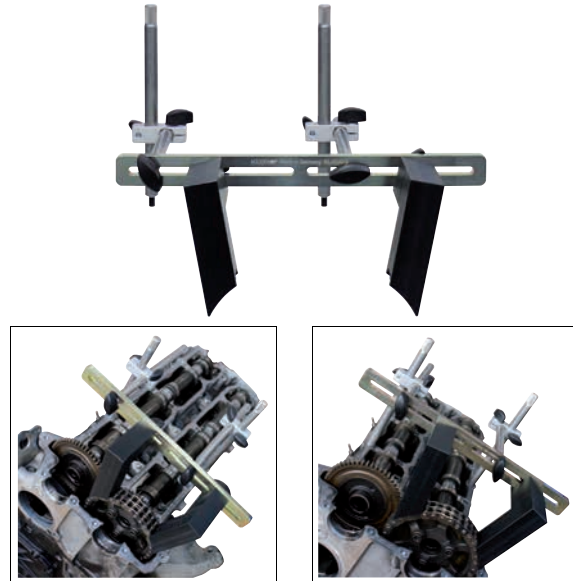
The special design of the mounting device prevents skipping a tooth during assembly, thus allowing the mechanic to carry out the professional installation of the new timing chain single-handedly - quickly and without any trouble.

**Advantages:**

- Substantial time savings, only one mechanic will be needed to do the job.
- Risk of dropping the chain or skipping a tooth is eliminated.
- Even more time savings possible, as on some vehicles removing the radiator, fan clutch etc. is not necessary.

**Scope of Delivery: KL-0340-9 Universal Mounting Device for Timing Chain**

Part No.	Description	Qty
KL-0340-91	Supporting Rod	2
KL-0340-92	Base Tool	1



## KL-0380-752 K

### Locking Tool Set, Mercedes

**Applicable to Mercedes-Benz 1.6 and 1.8 petrol engines as found in: C-, CLC-, CLK-, E-, SLK-Class and Sprinter vehicles. (Engine code: M271)**

For locking/positioning the camshafts and timing chain tensioning rail. Can also be used to install the plug on the timing case cover of the chain tensioner. An indispensable tool set when replacing a timing chain or performing an engine repair.

**Scope of Delivery: KL-0380-752 K Locking Tool Set, Mercedes**

Part No.	Description	Qty
KL-0380-7521	Locking Tool for Camshaft	1
KL-0380-7522	Wedge for Tensioning Rail	1
KL-0380-7523	Installation Mandrel for Chain Tensioner	1
KL-4990-1107	Plastic Storage Case	1



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## KL-0380-751 K

### Locking Tool Set, Mercedes

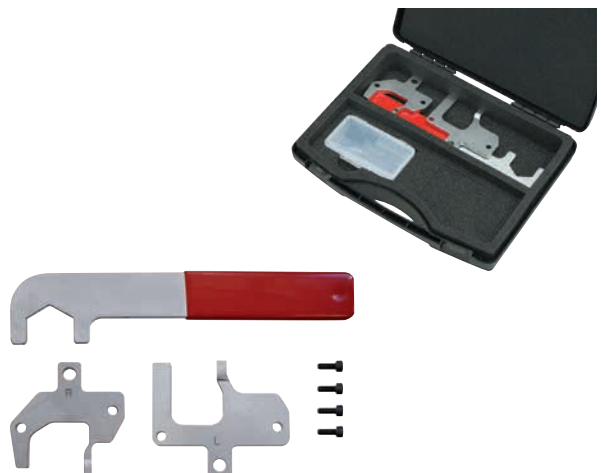
**Applicable to Mercedes-Benz 2.4, 2.6, 2.8, 3.2, 3.7, 4.3, 5.0 and 5.4 litre petrol engines as found in:**

**C-, CL-, CLK-, CLS-, E-, G-, M-, R-, S-, SL-, SLK-Class, Viano, Vito. (Engine codes: M112, M113)**

For locking and/or positioning camshafts. An indispensable tool set when replacing a timing chain or performing an engine repair.

**Scope of Delivery: KL-0380-751 K Locking Tool Set, Mercedes**

Part No.	Description	Qty
KL-0380-7511	Camshaft Spanner	1
KL-0380-7512	Locking Tool for Camshaft	1
KL-0380-7513	Locking Tool for Camshaft	1
KL-1280-2401-6	Cheese Head Screw, M6x14mm	4
KL-4990-2001	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1





## KL-1682-43 KA Locking Tool Set, 1.3 JTD

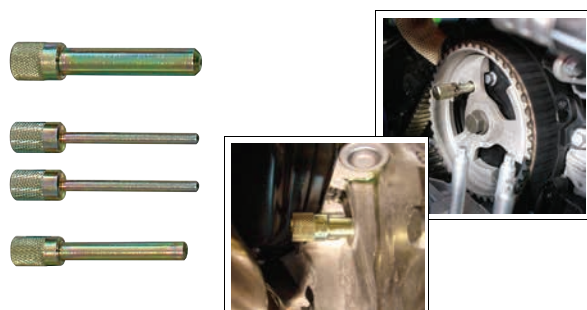
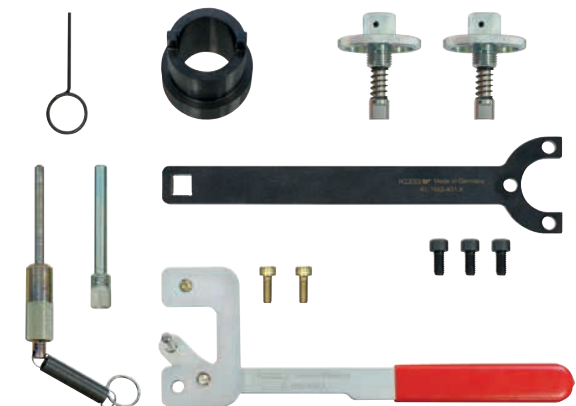
Applicable to Fiat 1.3 16V Common Rail Diesel engines as fitted to:

- Alfa Romeo, Fiat, Lancia JTD Multi-Jet (engine codes: 169A1.000, 169A5.000, 188A8.000, 188A9.000, 199A2.000, 199A3.000, 199A9.000, 199B1.000, 199B2.000, 199B4.000, 223A9.000, 263A2.000, 843A2.000)
- Ford TDCi Duratorq (engine code: FD4)
- Opel/Vauxhall CDTi (engine codes: A13DTC, A13DTE, A13DTR, D13A, LDV/A13DTC, LSF/A13DTE, Y13DT, Y13DTH, Z13DT, Z13DTE, Z13DTH, Z13DTI, Z13DTJ, Z13DTR)
- Suzuki DDiS (engine codes: D13A, Z13DT, Z13DTJ)
- Subaru (engine code: Z13DT)
- Citroën, Peugeot (engine code: F13DTE5 (FHZ))

This tool set is designed to counter-hold the crankshaft while loosening or tightening the crankshaft central screw. It also includes tools to lock/position engine shafts such as camshaft and crankshaft when replacing a timing chain or during an engine repair.

Scope of Delivery: KL-1682-43 KA Locking Tool Set, 1.3 JTD

Part No.	Description	Qty
KL-0482-450 A	Locking Tool for Camshaft (2 pieces)	1
KL-1682-434 A	Locking Pin, Ø 8mm	1
KL-0482-451 A	Locking Pin for Crankshaft, Ø 6mm	1
KL-1682-435	Counter-Holding Tool Set, Crank/Cam	1
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-1682-432 A	Holding Tool for Timing Chain Tensioner	1
KL-1682-4390 A	Plastic Storage Case	1



## KL-0680-220 B Set of Locking Pins, Citroën/Mazda/Peugeot/Suzuki/Toyota/Volvo

Applicable to Citroën 1.4, 1.4 Hdi, 1.6 Hdi, 2.0; Fiat 1.6 JTD; Ford 1.4 TDCi, 1.6 TDCi; Mazda 1.4 TDCi, 1.6 D, 1.6 MZ-CD; Peugeot 1.4 Hdi, 1.6 Hdi; Suzuki 1.4 DDiS; Toyota 1.0 VVT, 1.4 Di, 1.4 HDI; Volvo 1.6 D Diesel engines.

(Engine codes: 8HP, 8HR, 8HS, 8HT, 8HV, 8HW, 8HX, 8HY, 8HZ, 9HF, 9HH, 9HJ, 9HL, 9HM, 9HN, 9HP, 9HR, 9HS, 9HT, 9HU, 9HV, 9HW, 9HX, 9HY, 9HZ, D4162T, D4164T, DV4C, DV4TD, DV4TED, DV4TED4, DV6, DV6C, DV6ATED4, DV6AUTED4, DV6BTED4, DV6BUTED4, DV6D, DV6DTEd, DV6DU, DV6ETED, DV6TED4, DV6TED4B, DV6TED4BU, DV6UC, DV6UTED4, F6J4, F6JA, F6JB, F6JC, F6JD, G8DA, G8DB, G8DD, GPDA, HHDA, HHDB, HHJA, HHJB, HHJC, HHJD, HHJE, HHJF, MZ-CD 1.6 (Y6), T1BA/B/C, TZJA, Y6)

These pins are used for the locking/positioning of engine shafts such as camshaft, injection pump shaft and crankshaft when replacing a timing belt or during an engine repair.

Scope of Delivery: KL-0680-220 B Set of Locking Pins

Part No.	Description	Qty
KL-0680-2201 A	Locking Pin, Ø 11mm	1
KL-0680-2202 A	Locking Pin, Ø 4.5mm	2
KL-0680-2203 A	Locking Pin, Ø 7.5mm	1



## KL-1381-30 Tensioner Tool with Retaining Pin

Applicable to PSA (Citroën, Peugeot), Fiat and Ford 1.4 und 1.6 litre Diesel engines as found in: Citroën Berlingo/Berlingo First I/II, C1, C2, C3 I/II/First/Classic, C3 III, C3 Picasso, C3 Pluriel, C4 II, C4 Picasso/Grand Picasso, C5 III, DS3, Berlingo III, DS4, DS3, DS4, Xsara II, Xsara Picasso and Peugeot Partner III, 206, 207, 207 CC, 308, 308 CC, 508, 3008, 5008. (Engine codes: DV4, DV6)

Facilitates the tensioning and locking of V-ribbed belt tensioners.

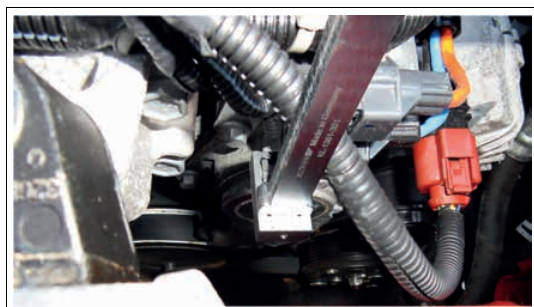
This tool allows for the removal/installation of the V-ribbed belt in situ on the vehicle even in very limited space conditions.

Technical Data:

Length of tension lever:	465mm
Ø of retaining pin:	4.2mm

Scope of Delivery: KL-1381-30 Tensioner Tool with Retaining Pin

Part No.	Description	Qty
KL-1381-3021	Retaining Pin (angled), Ø 4.2mm	1
KL-1383-301	Tension Lever with Base Body	1



## KL-0680-262 A

### Tensioner Tool, Ford

Applicable to Ford 1.4, 1.6, 2.0, 2.2 TDDi / TDCi Duratorq Diesel engines as installed in Ford Mondeo (2000-2007), Focus; Mazda2, Mazda3.

(Engine codes: F6JA, F6JB, F6JC, F6JD, G8DA, G8DB, G8DD, GPDA, HHDA, HHDB, HHJA, HHJB, HHJC, HHJD, HHJE, HHJF, MZ-CD 1.6 (Y6), T1BA/B/C, TZJA, Y6)

The tensioner tool KL-0680-262 A is required to pretension the tensioner when removing/installing the auxiliary belt.



## KL-0280-701 K

### Locking Tool Set, VW 1.2, 1.4, 1.6, 1.9 TDI

Applicable to VW-Audi, Seat, Škoda and Ford vehicles equipped with either a 1.2, 1.4, 1.6 or 1.9 Common Rail or Pumpe-Düse (unit injector) Diesel engine such as VW Lupo, Polo, Fox, Golf, Passat; Audi A1, A2, A3; Seat Arosa, Ibiza, Cordoba; Škoda Fabia II, Roomster, Praktik; Ford Galaxy etc.

(Engine codes: AMF, ANU, ANY, ASZ, ASZ1, ATL, AUY, AYZ, BAY, BHC, BMS, BNM, BNV, BWB, CAYA, CAYB, CAYC, CAYD, CAYE, CFWA)

Designed for the locking/positioning of engine shafts such as camshaft, injection pump shaft and crankshaft. The kit also includes tools to lock/position and adjust the timing belt tensioner.

An indispensable tool set when replacing a timing belt or performing an engine repair.



#### Scope of Delivery:

#### KL-0280-701 K Locking Tool Set, VW 1.2, 1.4, 1.6, 1.9 TDI

Part No.	Description	Qty
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-0280-16	Holding Tool	1
KL-0280-19	Locking Tool	1
KL-0280-2201 A	Locking Pin (angled), Ø 2.5mm	1
KL-0280-2202 A	Special Hexagon Socket Key, (waf) 6mm	1
KL-0280-222	Locking Pin (angled), Ø 4mm	1
KL-0280-2501	Locking Pin, Ø 4.4mm	1
KL-0280-6101	Locking Pin, Ø 4mm	1
KL-0280-6102	Locking Pin, Ø 7mm	1
KL-0284-91 A	Adjustment Tool for Timing Belt Tensioner, 240mm	1
KL-1480-16	Locking Pin (long), Ø 6mm	2
KL-4031-3610	Screw Driver Bit Socket, XZN-M10	1
KL-4031-3114	Screw Driver Bit Socket, XZN-M14, 100mm	1
KL-0280-7029	Plastic Storage Case	1



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## KL-0680-21 KA

### Locking Tool Set, Ford TDCi

Applicable to Ford 2.0, 2.2, 2.4, 3.2 litre 16V TDDi/TDCi/Di Diesel engines as found in Mondeo, Transit (2001-2004) etc.

(Engine codes: 244DT, ABFA, BG, D2FA, D2FB, D3FA, D4FA, D5BA, D6BA, DOFA, F3FA, F4FA, F1FA, FMBA/B, FXFA, H9FA, H9FB, HEFA, HJBA, HJBB, HJBC, HJBE, JXFA, N7BA, N7BB, P8FA, PHFA, QJBA, QJBB, QJBC, QJBD, QVFA, QWFA, SAFA)

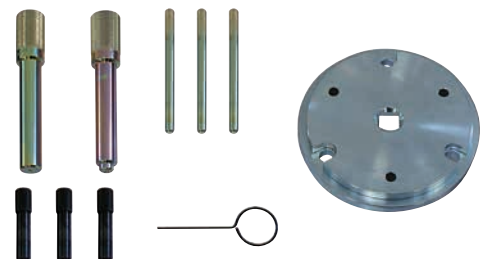
Indispensable tool set for the locking/positioning of engine shafts such as camshaft, injection pump shaft and crankshaft when replacing a timing chain or during an engine repair. The kit also includes a tool to remove/install the injection pump.

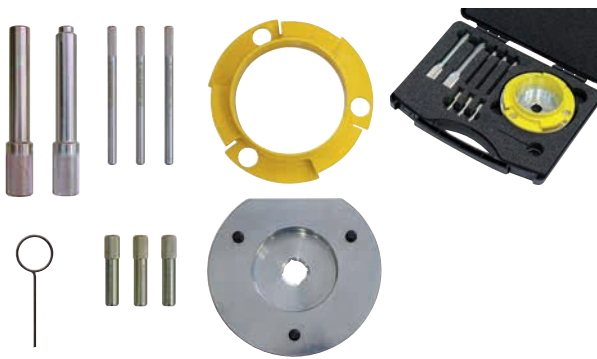


#### Scope of Delivery:

#### KL-0680-21 KA Locking Tool Set, Ford TDCi

Part No.	Description	Qty
KL-0680-2100 A	Injection Pump Removal/Installation Tool	1
KL-0680-210 A	Locking Pin Set, Ford 2.0/2.4 TDCi	1
KL-0680-2190 A	Plastic Storage Case	1





## KL-0680-21 KB

### Locking Tool Set, Ford 2.0/2.4 TDCi

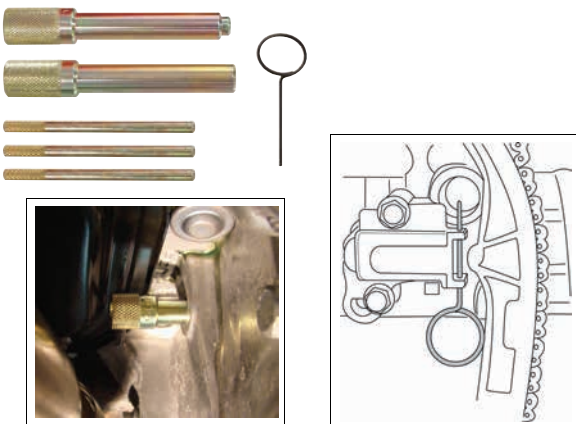
**Applicable to Ford, Land Rover and Jaguar 2.0, 2.2, 2.4 and 3.2 TDdi/TDCi/Di Diesel engines. For example, fitted to: Ford Focus, Mondeo, Transit; Land Rover Defender and Jaguar X-Type.**

For the locking/positioning of camshafts, injection pump shaft and crankshaft. An indispensable tool set when changing timing chains, performing engine repairs, as well as when removing/installing injection pumps.

**Scope of Delivery: KL-0680-21 KB Locking Tool Set, Ford 2.0/2.4 TDCi**

Part No.	Description	Qty
KL-0680-2101 A	Locking Pin, Ø 14mm	1
KL-0680-2102 A	Locking Pin, Ø 14 / 10mm	1
KL-0680-2103 A	Locking Pin, Ø 6mm	3
KL-0180-3019	Retaining Pin, Ø 1.9mm	1
KL-0680-2100 B	Injection Pump Removal/Installation Tool	1
KL-0680-2190 A	Plastic Storage Case	1

(Engine codes: 244DT, ABFA, BG, D2FA, D2FB, D3FA, D4FA, D5BA, D6BA, DOFA, F3FA, F4FA, F5FA, FMBA/B, FXFA, H9FA, H9FB, HEFA, HFFA, HJBA, HJBB, HJBC, HJBE, JXFA, N7BA, N7BB, P8FA, PHFA, QJBA, QJBB, QJBC, QJBD, QVFA, QWFA, SAFA)



## KL-0680-210 A

### Locking Pin Set, Ford 2.0/2.4 TDCi

**Applicable to Ford 2.0/2.4 16V TDdi/TDCi engines as installed in Mondeo, Transit (2001-2004) etc.**

**(Engine codes: FMBA/B, D5BA, ABFA, D3FA, F3FA, D2FA, D4FA, F4FA)**

This set is used for the locking/positioning of engine shafts such as camshaft, injection pump shaft and crankshaft when replacing timing chains or during engine repairs.

**Scope of Delivery: KL-0680-210 A Locking Pin Set, Ford 2.0/2.4 TDCi**

Part No.	Description	Qty
KL-0680-2101 A	Locking Pin, Ø 14mm	1
KL-0680-2102 A	Locking Pin, Ø 14/10mm	1
KL-0680-2103 A	Locking Pin, Ø 6mm	3
KL-0180-3019	Retaining Pin, Ø 1.9mm	1

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## KL-0680-211

### Reaction Wrench, Ford

**Suitable for use on Ford 2.2, 2.4 and 3.2 Diesel engines as found in Transit. (Engine codes: FXFA, H9FA, H9FB, JXFA, P8FA, PHFA, QVFA, QWFA, SAFA)**

This tool is designed to counter-hold the crankshaft pulley while loosening and tightening the crankshaft screws.



## KL-0680-701 K

### Locking Tool Set, Ford, Fiat, PSA 2.2

**Applicable to Ford, Fiat, Citroën and Peugeot 2.2 litre Common Rail Diesel engines. For example, fitted to: Ford Transit, Fiat Ducato, Citroën Relay/Jumper III and Peugeot Boxer III.**

For locking the crankshaft and camshaft, as well as for aligning the engine front cover when installing it. The set also includes the necessary tool to remove/install crankshaft seal rings. An indispensable tool set when replacing timing chains or performing engine repairs.

**Scope of Delivery: KL-0680-701 K Locking Tool Set, Ford, Fiat, PSA 2.2**

Part No.	Description	Qty
KL-0680-7011	Locking Tool, Crankshaft	1
KL-0680-7012	Cap for Crankshaft	1
KL-0680-7013	Turning Tool for Injection Pump	1
KL-0680-2102 A	Locking Pin, Ø 14/10mm	1
KL-0680-2103 A	Locking Pin, Ø 6mm	2
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-1007	Plastic Storage Case	1

(Engine codes: 4HU (P22DTE), 4HV (P22DTE), CYFA, CYFB, CYFC, DRFA, DRFB, DRFC, P22DTE, P8FB, PGFA, PGFB, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, USRA)

## KL-0680-103 A

### Locking Pin Set for Crankshaft, Ford

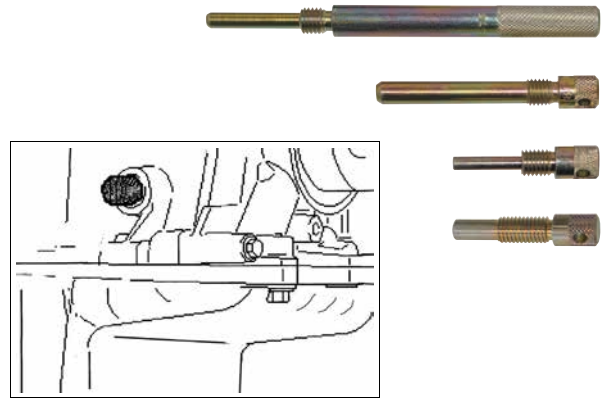
Applicable to Ford 1.25, 1.4, 1.6, 1.7, 1.8, 2.0 litre petrol engines, and 1.8 litre Diesel engines.

The pins are used for locking the crankshaft when replacing the timing belt or during engine repairs.

**Scope of Delivery:**

**KL-0680-103 A Locking Pin Set for Crankshaft, Ford**

Part No.	Description	Qty
KL-0680-10	Locking Pin for Crankshaft, Ø 6mm	1
KL-0680-16 A	Locking Pin for Crankshaft, Ø 7.9mm	1
KL-0680-17	Locking Pin for Crankshaft, Ø 5mm	1
KL-0680-18	Locking Pin for Crankshaft, Ø 7.95mm	1



## KL-0680-25 A

### Locking Tool Kit for Crankshaft, Ford

Applicable to Ford 1.25, 1.4, 2.0, 2.3 and 1.6 litre Ti-VCT TwinCam Duratec petrol engines, and 1.6, 1.8, 2.0, 2.2 litre TDi/TDdi/TDCi as well as 2.0 litre TDCi Diesel engines as installed in Ford Fiesta/Courier, Focus/C-Max, Tourneo Connect, Mondeo, S-Max, Galaxy, Transit Connect; Volvo.

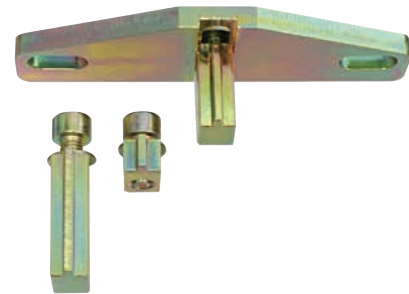
(Engine codes: AZBA, AZBC, AZWA, BHDA/B, BHPA, C9DA/B, C9DC, D4204T, E5FA, E5FC, E5SA, E5SB, F9DA/B, FFBA, FFDA, FFWA, G6DA, G6DB, G6DC, G6DD, G6DE, G6DF, G6DG, HCPA, HCPB, HXDA, HXJA, HXJB, IQDA/B, IQDB, IXDA, JQDA/B, JTBA/B, JTDA/B, KGBA, KHBA, KKDA, KKDB, KLBA, KNBA, LPBA, P7PA, P9PA, P9PB, PNBA, PNDA, Q4BA, QJBA, QXBA, QXBB, QXWA, QXWB, QYBA, QYWA, R2PA, R3PA, RHBA, RTJA, RTJB, RWPA, RWPC, SIDA, SNJA, SNJB, SPJA, SPJC, STJA, STJB, T1BA/B/C, TXBA, TXDA, TXDA/B, TXDB, TXWA, TYBA, TYDA, TYWA, TZJA, UFBA, UFDA, UFDB, UFWA, UKBA, UKDA, UKDB, UKWA, ZVSA)

This tool is designed to counter-hold the flywheel while loosening/tightening the crankshaft pulley fastening screws. It can also be used for locking/positioning the crankshaft when replacing the timing belt or during engine repairs.

**Scope of Delivery:**

**KL-0680-25 A Locking Tool Kit for Crankshaft, Ford**

Part No.	Description	Qty
KL-0680-2501 A	Adaptor, 2.0 TDCi	1
KL-0680-2502 A	Adaptor, 1.6 Ti-VCT	1
KL-0680-1058 A	Holding Tool for Flywheel with Adaptor, 1.8 Diesel	1



## KL-0680-20 A

### Vibration Damper Installation/Removal Tool, Ford/Mazda

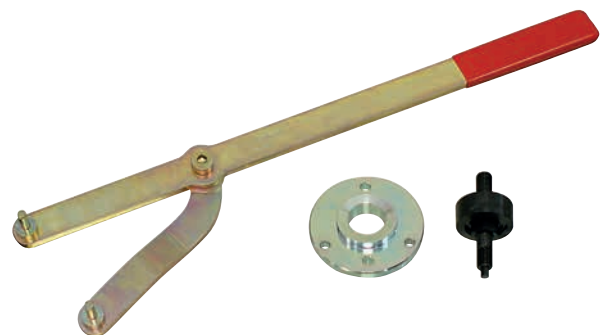
Applicable to Ford Zetec engines as found in Ford Fiesta 1.25, 1.4, 1.6 16V, Puma 1.4, 1.6, 1.7 16V, Focus 2.2, Galaxy 2.0, 2.3, Transit 2.3 and Mazda 121 1.25 16V. (Engine codes: E5FA, E5FC, E5SA, E5SB, QJBA, ZVSA etc.)

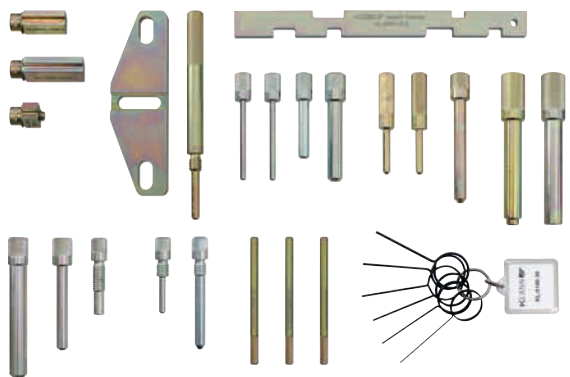
Designed for the removal and installation of vibration dampers. Required for engine repairs or when replacing a timing belt.

**Scope of Delivery:**

**KL-0680-20 A Vibration Damper Installation/Removal Tool, Ford/Mazda**

Part No.	Description	Qty
KL-0680-201 A	Reaction Wrench with Pin, Ø 7.5mm	1
KL-0680-202 A	Extraction Plate for Crankshaft Vibration Damper	1
KL-0680-203 A	Installation Tool for Crankshaft Pulley	1





## KL-0680-28 K

### Locking Tool Set, Ford

Universally applicable to Ford, PSA (Citroën, Peugeot), Land Rover, Jaguar, Mazda, Volvo 1.4, 1.6 HDi (PSA) and 1.4, 1.6 TDCi (Ford) and 1.6 TDi, 1.8 TDi/TDdi/TDCi, 2.0, 2.4 16V TDdi/TDCi Diesel engines as found in Citroën Berlingo, C1, C2, C3, C4, C5, Dispatch, DS3, DS4, Jumpy, Nemo, Xsara; Fiat Scudo; Ford C-Max, Cougar, Courier, Escort, Fiesta, Focus, Fusion, Galaxy, Kuga, Maverick, Mondeo, Orion, S-Max, Tourneo, Transit; Jaguar X-Type, Land Rover Defender; LDV Convoy; Mazda 2, 3, 323, 5, 6, E-Series, MPV, MX-5, Premacy, Tribute, Xedos 9; Peugeot 107, 206, 207, 307, 308, 407, 508, 1007, 3008, 5008, Bipper, Expert, Partner; Volvo C30, S40, S60, S80, V50, V70.

This tool set is designed for the locking/positioning of engine shafts such as camshaft, crankshaft and injection pump shaft as well as of the timing belt tensioner. Essential tools when replacing timing belts or performing engine repairs.

#### Scope of Delivery:

#### KL-0680-28 K Locking Tool Set, Ford

Part No.	Description	Use/Application
KL-0180-30 B	Retaining Pin Set, 0.8-2.6mm	For locking the automatic timing belt tensioner when replacing a timing belt. Consists of: Key fob with ring and 6 retaining pins with Ø 0.8mm, Ø 1.2mm, Ø 1.4mm, Ø 1.5mm, Ø 1.7mm, Ø 1.9mm, Ø 2.4mm, Ø 2.6mm.
KL-0680-10	Locking Pin for Crankshaft, Ø 6mm	1.8 D / TD / Tddi / TDCi Diesel engines. Engine code: BHDA/B, BHPA, C9DA/B/C, F9DA/B, HCPA, KKDA, RFA, RFK, RFL, RFN, RTC, RTJ, RTK.
KL-0680-1058 A	Locking Tool for Flywheel, with Adaptor	1.8 D / TD / TDCi Diesel engines. Engine code: RTN, RTQ, RTP, BHDB, BHPA, C9DA, C9DB, C9DC, F9DA, F9DB, FFBA, FFDA, FFWA, G6DA, G6DB, G6DC, HPCA, HPCB, P7PA, P9PA, QYBA, QYWA, R2PA, R3PA, RWPA, KKDA.
KL-0680-11 A	Locking Pin for Camshaft, Ø 8.3mm	2.5 D / TD / TCI Diesel engines. Engine code: 4EB, 4EC, 4ED, 4FA, 4FB, 4FC, 4FD, 4GA, 4GB, 4GC, 4GD, 4GE, 4HB, 4HC.
KL-0680-12 A	Locking Pin for Injection Pump, Ø 9.5mm	1.8 D / TD and 2.5 DI / Turbo / TCI Diesel engines. Engine code: 4EB, 4EC, 4ED, 4FA, 4FB, 4FC, 4FD, 4GA, 4GB, 4GC, 4GD, 4GE, 4HB, 4HC, RFD, RFK, RFN, RKD, RTC, RTH, RTJ, RTK, RVA.
KL-0680-13 A	Locking Pin for Flywheel, Ø 12.9mm	2.5 DI / Turbo / TCI Diesel engines. Engine code: 4EB, 4EC, 4ED, 4FA, 4FB, 4FC, 4FD, 4GA, 4GB, 4GC, 4GD, 4GE, 4HB, 4HC.
KL-0680-14 A	Locking Pin for Camshaft and Injection Pump, Ø 6mm (2 units)	1.8 D / TD Diesel engines. Engine code: C9DC, RFA, RFD, RFK, RFL, RFN, RTC, RTH, RTJ, RTK.
KL-0680-15 A	Setting Gauge for Camshafts	1.25, 1.4, 1.6, 1.7, 1.8, 2.0 TwinCam petrol engines, and 1.8 D / TD Diesel engines. Engine code: C9DC, MHA, RFA, RFD, RFK, RFL, RFN, RTC, RTH, RTJ, RTK, Zetec DHA/DHB.
KL-0680-16 A	Locking Pin for Crankshaft, Ø 7.9mm	1.6, 1.8, 2.0 16V petrol engines. Engine code: L1F, L1J, NGA, RKA, RKB, Zetec.
KL-0680-17	Locking Pin for Crankshaft, Ø 5mm	1.25, 1.4, 1.6, 1.7 16V petrol engines. Engine code: Zetec DHA, DHB, DHC, DHD, DHE, DHF, DHG, FHA, FHE, LIT, L1V, MHA.
KL-0680-18	Locking Pin for Crankshaft, Ø 7.95mm	Ford petrol engines (1.25 Zetec-SE Sigma, 1.4 Duratec-16V Sigma, 1.6 Duratec-16V Sigma, 2.0 Duratec-RS Zetec, 1.4 Zetec-SE Sigma, 1.6 Zetec-SE Sigma, 2.0 Duratec-ST Zetec) Engine code: F8JA, F8JB, FUJA, FXDA/C, FXDB/D, FXJA, FXJB, FYDA/C, FYDB/D, FYDH, FYJA, FYJB, HWDA, HXDA.
KL-0680-2101 A	Locking Pin for Flywheel, Ø 14mm	Ford 2.0/2.4 16V TDCi engines.
KL-0680-2102 A	Locking Pin for Flywheel, Ø 13.5/9.5mm	Ford 2.0/2.4 16V TDdi engines.
KL-0680-2103 A	Locking Pin for Camshafts and Injection Pump, Ø 6mm	Ford 2.0/2.4 16V TDdi/TDCi engines. Engine code: FMBA/B, D5BA, ABFA, D3FA, F3FA, D2FA, D4FA, F4FA.
KL-0680-2201 A	Locking Pin for Flywheel, Ø 11mm	1.4, 1.6 HDi (PSA) and 1.4, 1.6 TDCi (Ford) engines. Engine code: 8HV, 8HW, 8HX, 9HX, 9HZ DV4TD, DV4TED4, DV6ATED4, DV6TED4 and F6JA, F6JB, F6JC, G8DA, G8DB, HHDA.
KL-0680-2202 A	Locking Pin for Crankshaft and Injection Pump, Ø 4.5mm	Application as KL-0680-2201 A.
KL-0680-2203 A	Locking Pin for Camshaft, Ø 7.5mm	Application as KL-0680-2201 A, + 2.0 and 2.2.
KL-0680-2501 A	Adaptor 2.0 TDCi for KL-0680-1058 A	Engine code: AZWA, G6DA, G6DB, G6DC, QXWA.
KL-0680-2502 A	Adaptor 1.6 Ti-VCT for KL-0680-1058 A	Engine code: HXDA.
KL-0680-2890	Plastic Storage Case	

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(Engine codes: 224DT, 4AB, 4BA, 4BB, 4BC, 4CA, 4CB, 4CC, 4DA, 4EA, 4EB, 4EC, 4ED, 4FA, 4FB, 4FC, 4FD, 4GA, 4GB, 4GC, 4GD, 4GE, 4GF, 4HA, 4HB, 4HC, 4HD, 8HP, 8HR, 8HS, 8HT, 8HV, 8HW, 8HX, 8HY, 8HZ, 9HF, 9HH, 9HJ, 9HL, 9HM, 9HN, 9HP, 9HR, 9HS, 9HT, 9HU, 9HV, 9HW, 9HX, 9HY, 9HZ, ABFA, ALDA, AOBA, AOBC, AODA, AODB, AODE, AOWA, AOWB, AZBA, AZBC, ATWA, BG, BHDA/B, BHPA, BP, C9DA/B, C9DC, CDBB, CGBA/B, CJBA/B, CSDA, CSDB, D2FA, D2FB, D3FA, D4FA, D4162T, D4164T, D4204T, D5BA, D6BA, DOFA, DV4C, DV4TD, DV4TED, DV4TED4, DV6ATED4, DV6AUTED4, DV6BTED4, DV6BUTED4, DV6C, DV6DTEd, DV6DU, DV6ETED, DV6TED4, DV6TED4B, DV6TED4BU, DV6UC, DV6UTED4, E5FA, E5FC, E5SA, E5SB, EDDBA/C, EDDBB, EDDBD, EDDB, EDCC, EDDDD, EDDDF, EYDB, EYDC, EYDD/E, EYDF, EYDG, EYDI, EYDJ, EYDL, EYPA, EYPC, F3FA, F4FA, F6JA, F6JB, F6JC, F6JD, F8JA, F8JB, F9DA/B, FE, FFBA, FFDA, FFWA, FIFa, FMBA/B, FP, FS, FUJA, FUJB, FXFA, FXJA/B, FYJA, G6DA, G6DB, G6DC, G6DD, G6DE, G6DF, G6DG, G8DA, G8DB, G8DD, GPDA, GZ, GZFA, GZFB, GZFC, H9FA, H9FB, HCPA, HCPB, HHDA, HHDB, HHJA, HHJB, HHJC, HHJD, HHJE, HHJF, HJBA, HJBB, HJBC, HJBE, HMDA, HXDA, HXJA, HXJB, IQDA/B, IQDB, IXDA, JQDA/B, JTBA/B, JTDA/B, JXFA, KGBA, KHBA, KKDA, KKDB, KL, KLBA, KNBA, L1L, L1N/Q, L3, L5, L8, LF, LPBA, MZ-CD 1.6, MZR 1.8, N4JB, N7BA, N7BB, NGB, NGC, NGD, P7PA, P8FA, P9PA, P9PB, PHFA, PNBA, PNDA, Q4BA, Q7DA, QJBA, QJBB, QJBC, QJBD, QQDA, QQDB, QQDC, QVFA, QWFA, QXBA, QXBB, QXWA, QXWB, QYBA, QYWA, R2PA, R3PA, RFD, RFK, RFS, RHBA, RKF, RKH, RKJ, RKK, RTE, RTF, RTH, RTJ, RTJA, RTJB, RTK, RVA, RWPA, RWPC, SAFA, SEBA, SEWA, SIDA, SNJA, SNJB, SPJA, SPJC, STJA, STJB, SYDA, T1BA/B/C, TBBA, TBBB, TBWA, TBWB, TNBA, TXBA, TXDA, TXDA/B, TXDB, TXWA, TYBA, TYDA, TYWA, TZJA, UFBA, UFDA, UFDB, UFWA, UKBA, UKDA, UKDB, UKWA, Y6, YF, ZVSA)

## KL-0680-100 B Locking Tool Set, Ford

Applicable to Ford 1.6, 1.8, 2.0 and 2.5 litre petrol and Diesel engines as found in Ford Cougar, Escort, Fiesta, Focus, Maverick, Mondeo, Orion, Tourneo, Transit; Mazda Tribute; LDV Convoy.

(Engine codes: 4AB, 4BA, 4BB, 4BC, 4CA, 4CB, 4CC, 4EA, 4EB, 4EC, 4ED, 4FA, 4FB, 4FC, 4FD, 4GA, 4GB, 4GC, 4GD, 4GE, 4GF, 4HA, 4HB, 4HC, 4HD, ALDA, EAB, EDBA/C, EDBB, EDBD, Eddb, EDdc, EDDd, EDDF, EYDL, EYPA, EYPC, NGB, NGC, NGD, RFD, RFK, RFS, RKF, RKH, RKJ, RKK, RTE, RTF, RTH, RTJ, RTK, RVA, YF)

The correct position of the engine shafts such as camshaft and injection pump shaft relative to the crankshaft (accurate timing adjustment) is absolutely essential when replacing a timing belt or during an engine repair.

Only then will the optimal engine power be achieved and engine failure be prevented.

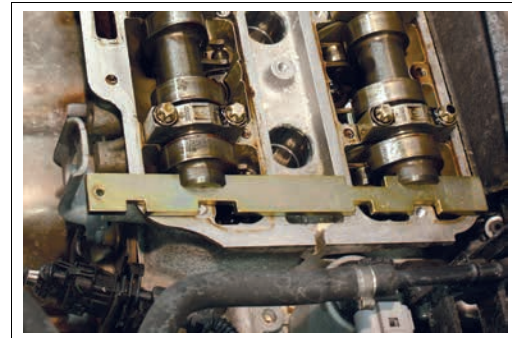
### Technical Data:

Part No.	Length		Handle Ø	Thread	Weight
KL-0680-100 B	-	-	-	-	0.4kg
KL-0680-10	150mm	6.0mm	12mm	M10	-
KL-0680-11 A	80mm	8.3mm	15mm	-	-
KL-0680-12 A	95mm	9.5mm	15mm	-	-
KL-0680-13 A	100mm	12.9mm	15mm	-	-
KL-0680-14 A	75mm	6.0mm	12mm	-	-
KL-0680-16 A	80mm	7.9mm	-	M10	-

### Scope of Delivery:

#### KL-0680-100 B Locking Tool Set, Ford

Part No.	Description	Qty
KL-0680-10	Locking Pin for Crankshaft	1
KL-0680-11 A	Locking Pin, Ø 8.3mm	1
KL-0680-12 A	Locking Pin, Ø 9.5mm	1
KL-0680-13 A	Locking Pin, Ø 12.9mm	1
KL-0680-14 A	Locking Pin, Ø 6mm	2
KL-0680-15 A	Setting Gauge for Camshafts	1
KL-0680-16 A	Locking Pin for Crankshaft	1



## KL-0184-061 Reaction Wrench, Ford

Applicable to Ford, Mazda, Volvo 1.3, 1.5, 1.6, 1.8, 2.0 and 2.3 litre engines; as installed in Ford Focus/C-Max, Mondeo, S-Max, Galaxy; Mazda 2, 3, 5, 6, CX-7, MX-5; Volvo C30, S40, V50, V70, S80.

(Engine codes: B4184S11, B4184S8, B4204S3, B4204S4, L3 Turbo, LF, LF (MZR DISI), MZ-CD 1.6 (Y6), MZR 1.3 (ZJ), MZR 1.5 (ZY), MZR 1.8 (L8), MZR 2.0 (LF), ZJ, ZY)

This tool is designed to counter-hold the crankshaft pulley while loosening and tightening the crankshaft central screw. It is required when replacing timing belts and for engine repairs.

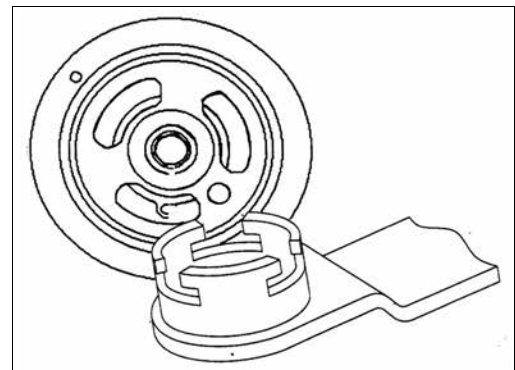
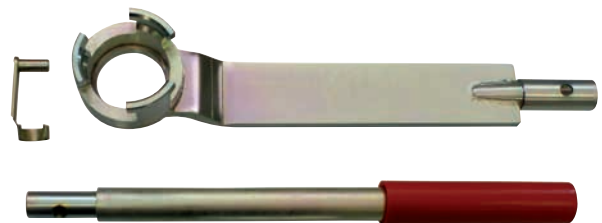
### Technical Data:

Overall length (of assembled tool):	754mm
Length of extension tube with protective handle:	403mm
Length of base tool:	401mm

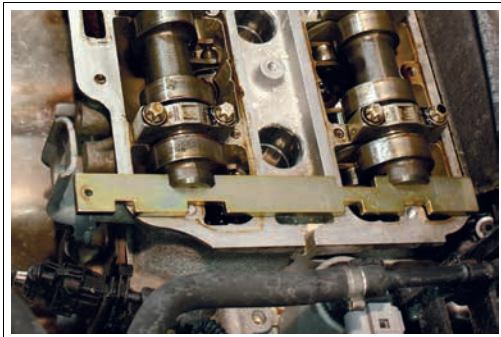
### Scope of Delivery:

#### KL-0184-061 Reaction Wrench, Ford

Part No.	Description	Qty
KL-0184-0610	Reaction Wrench (Base Tool)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0103	Folding Spring Bolt	1







## KL-0680-27 A Locking Tool Set, Ford

Applicable to Ford and Mazda 1.25, 1.4, 1.6, 1.7, 1.8, 2.0, 2.3 and 2.5 litre TwinCam Duratec petrol engines (timing belt/timing chain), as installed in: Ford C-Max, Courier, Cougar, Fiesta, Fusion, Focus, Galaxy, Maverick, Mondeo, Puma, S-Max, Tourneo Connect and Transit Connect; Mazda 121, 2, 3, 323, 5, 6, MPV, Tribute and Xedos 9.

(Engine codes: ALDA, AOBA, AOBC, AODA, AODB, AODE, AOWA, AOWB, BP, CDBB, CGBA/B, CHBA/B, CJBA/B, CSDA, CSDB, E5FA, E5FC, E5SA, E5SB, EDDB, EDDC, EDDD, EDDF, EYDB, EYDC, EYDD/E, EYDF, EYDG, EYDI, EYDJ, EYDL, EYPA, EYPC, F8JA, F8JB, FE, FP, FS, FUJA, FUJB, FXJA, FXJA/B, FYJA, FYJB, FYJC, GZ, GZFA, GZFB, GZFC, HMDA, KL, L3, L5, L8, LF, MZR 1.8 (L8), N4JB, Q7DA, QQDA, QQDB, QQDC, SEBA, SEWA, SYDA, TBBA, TBBB, TBWA, TBWB, TNBA, YF, ZVSA)

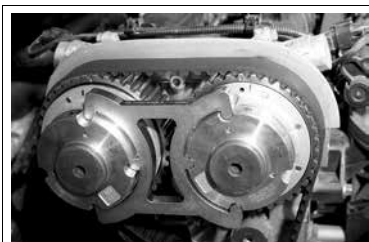
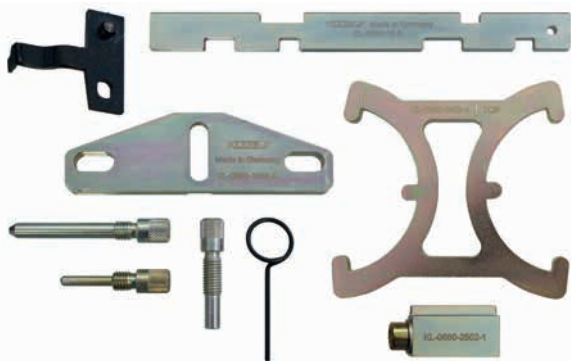
This tool set is designed for the locking/positioning of engine shafts such as camshaft, crankshaft and the timing belt tensioner. It is required when replacing timing belts/timing chains and for engine repairs.

### Scope of Delivery:

#### KL-0680-27 A Locking Tool Set, Ford

Part No.	Description	Qty
KL-0680-15 A	Setting Gauge for Camshafts	1
KL-0680-17	Locking Pin for Crankshaft	1
KL-0680-16 A	Locking Pin for Crankshaft	1
KL-0680-18	Locking Pin for Crankshaft	1
KL-0180-3024	Retaining Pin, Ø 2.4mm	1

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## KL-0680-24 KB Locking Tool Set, Ford

Applicable to Ford 1.25, 1.4, 1.6, 1.8, 2.0, 2.3 and 2.5 litre petrol engines as found in Ford C-Max, Fiesta, Fusion, Focus, Galaxy, Ka, Maverick, Mondeo, S-Max, Tourneo Connect, Transit Connect; Mazda 2, 3, 323, 5, 6, E-Series, MPV, MX-5, Premacy, Tribute, Xedos 9; Volvo C30, S40, S60, S80, V40, V50, V60, V70.

(Engine codes: ALDA, AOBA, AOBC, AODA, AODB, AODE, AOWA, AOWB, ASDA, ASDB, B4164S2, B4164S3, B4164T, B4164T2, B4164T3, BP, CDBB, CDB/C, CDRA/B, CGBA/B, CJBA/B, CSDA, CSDB, E5FA, E5FC, E5SA, E5SB, EDDB, EDDC, EDDD, EDDF, EYDB, EYDC, EYDD/E, EYDF, EYDG, EYDI, EYDJ, EYDL, EYPA, EYPC, F8JA, F8JB, FE, FP, FS, FUJA, FUJB, FXDA/C, FXDB/D, FXJA, FXJA/B, FXJB, FXJC, FYDA/C, FYDB/D, FYDH, FYJA, FYJB, FYJC, GZ, GZFA, GZFB, GZFC, HMDA, HWDA, HWDB, HXDA, HXJA, HXJB, IQDA/B, IQDB, JQDA/B, JTBA/B, JTDA/B, KGBA, KL, L3, L5, L8, LF, M7JA, M7JB, MZR 1.8, N4JB, PNBA, PNDA, Q7DA, QQDA, QQDB, QQDC, RHBA, RTJA, RTJB, SEBA, SEWA, SHDA, SHDB, SHDC, SIDA, SNJA, SNJB, SPJA, SPJC, STJA, STJB, SYDA, TBBA, TBBB, TBWA, TBWB, TNBA, UTJA, YF, ZVSA)

Designed for the locking/positioning of camshaft, crankshaft and timing belt tensioner. The kit also includes a tool to adjust the VCT unit. An indispensable tool set when replacing timing belts or performing engine repairs.

### Scope of Delivery:

#### KL-0680-24 KB Locking Tool Set, Ford

Part No.	Description	Qty
KL-0680-18	Locking Pin for Crankshaft	1
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-0680-2403 A	Setting Gauge for Camshaft	1
KL-0680-2404 A	Locking Tool for Flywheel	1
KL-0680-15 A	Setting Gauge for Camshaft	1
KL-0680-17	Locking Pin for Crankshaft	1
KL-0680-16 A	Locking Pin for Crankshaft	1
KL-0680-2405 A	Locking Tool for Vibration Damper	1
KL-0680-2490 A	Plastic Storage Case	1

## KL-0680-23 KB Locking Tool Set, Ford

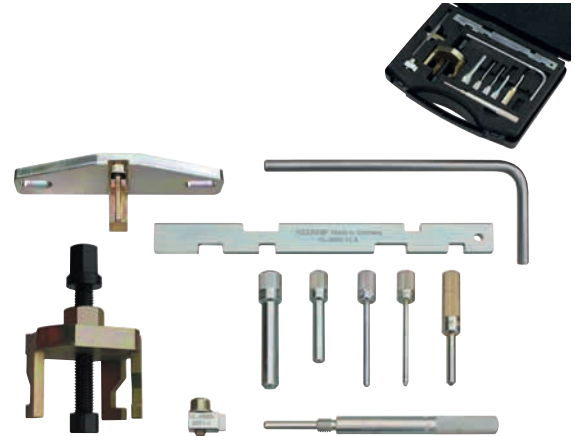
Applicable to Ford 1.4, 1.6, 1.8, 2.0 and 2.2 litre petrol engines as found in Ford C-Max, Fiesta, Focus, Fusion, Galaxy, Kuga, Mondeo, S-Max, Tourneo Connect; Mazda 2; Volvo C30, C70, S40, S80, V50, V70.

Designed for the locking/positioning of camshafts, crankshaft and injection pump. The kit also includes a tool to remove the camshaft sprocket. An indispensable tool set when replacing timing belts/performing engine repairs.

**Scope of Delivery:**

**KL-0680-23 KB Locking Tool Set, Ford**

Part No.	Description	Qty
KL-0680-2203 A	Locking Pin for Camshaft, Ø 8mm	1
KL-0680-2202 A	Locking Pin for Injection Pump and Crankshaft, Ø 4.5mm	2
KL-0680-2201 A	Locking Pin for Flywheel, Ø 11mm	1
KL-0680-2302 A	Locking Pin (angled), Ø 8mm	1
KL-0680-1058 A	Locking Tool for Flywheel, with Adaptor	1
KL-0680-2501 A	Adaptor, 2.0 TDCi	1
KL-0680-15 A	Setting Gauge for Camshafts	1
KL-0680-1053 A	Camshaft Sprocket Puller	1
KL-0680-10	Locking Pin for Crankshaft	1
KL-0680-14 A	Locking Pin, Ø 6mm	1
KL-0680-1090	Plastic Storage Case	1



(Engine codes: AZBA, AZBC, AZWA, BHDA/B, BHPA, C9DA/B, C9DC, D4162T, D4164T, D4204T, D4204T2, F6JA, F6JB, F6JC, F6JD, F9DA/8, FFBA, FFDA, FFWA, G6DA, G6DB, G6DC, G6DD, G6DE, G6DF, G6DG, G8DA, G8DB, G8DD, GPDA, HCPA, HCPB, HHDA, HHDB, HHJA, HHJB, HHJC, HHJD, HHJE, HHJF, IXDA, KHBA, KKDA, KKDB, KLBA, KNBA, LPBA, P7PA, P9PA, P9PB, Q4BA, QXBA, QXBB, QXWA, QXWB, QYBA, QYWA, R2PA, R3PA, RWPA, RWPC, T1BA/B/C, TXBA, TXDA, TXDA/B, TXDB, TXWA, TYBA, TYWA, TYDA, TZJA, UFBA, UFDA, UFDB, UFWA, UKBA, UKDA, UKDB, UKWA)

## KL-0680-101 Locking Tool Set, Ford

Applicable to Ford 1.6, 1.8 and 2.0 litre ZETEC SE petrol engines as found in Ford Cougar, Focus, Maverick, Mondeo, Tourneo, Transit; Mazda Tribute.

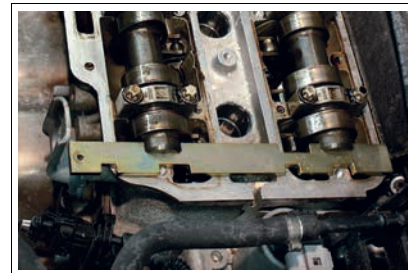
(Engine codes: ALDA, EDDB, EDBB, EDBC, EDBD, EDDB, EDDC, EDDD, EDDF, EYDB, EYDC, EYDD, EYDE, EYDF, EYDG, EYDI, EYDJ, EYDL, EYPA, EYPC, L1L, L1N/Q, NGB, NGC, NGD, RKF, RKH, RKJ, RKK, YF)

This tool set is designed to be used for extracting the camshaft timing belt sprocket as well as for locking/positioning engine shafts such as camshaft and crankshaft. It is required when changing a timing belt and for engine repairs.

**Scope of Delivery:**

**KL-0680-101 Locking Tool Set, Ford**

Part No.	Description	Qty
KL-0680-15 A	Setting Gauge for Camshafts	1
KL-0680-16 A	Locking Pin for Crankshaft	1



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## KL-0680-751 K Locking Tool Set, Ford

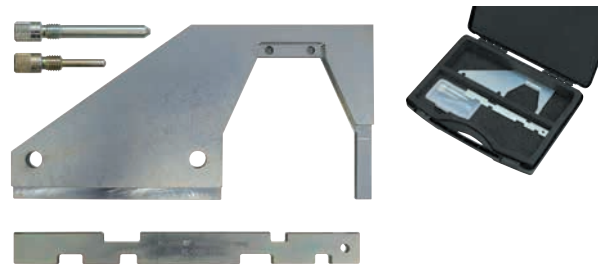
Applicable to Ford 1.8, 2.0 and 2.3 petrol engines as found in Ford Mondeo; Mazda 3, 5, 6, CX-7. (Engine codes: CFBA, LF, L3 Turbo, MZR 2.0, MZR DISI)

Designed for the locking/positioning of camshafts and crankshaft. An indispensable tool set when changing a timing belt or performing an engine repair.

**Scope of Delivery:**

**KL-0680-751 K Locking Tool Set, Ford**

Part No.	Description	Qty
KL-0680-7511	Locking Tool for Camshaft	1
KL-0680-17	Locking Pin for Crankshaft	1
KL-0680-15 A	Setting Gauge for Camshaft	1
KL-0680-16 A	Locking Pin for Crankshaft	1
KL-4990-2001	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1





## KL-0680-752 K Locking Tool Set, Ford 2.0

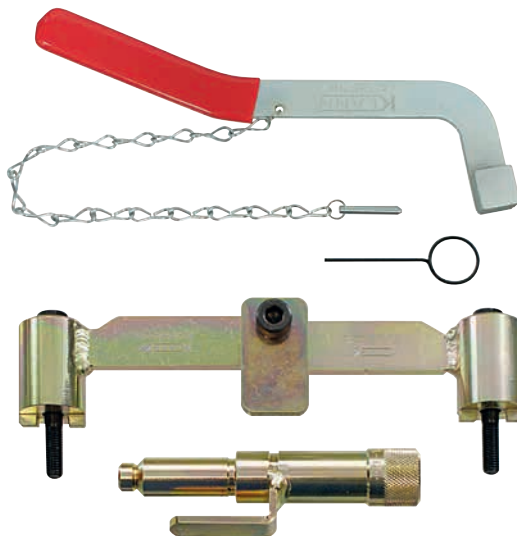
**Applicable to Ford 2.0 litre engines as found in Ford Galaxy, Mondeo, S-Max. (Engine codes: TNBA, TNWA, TNWB, TPBA, TPWA)**

Designed for the locking/positioning of camshafts, crankshaft and timing belt tensioner. The kit also includes a tool to align the crankshaft position sensor. An indispensable tool set when changing a timing belt, performing an engine repair or when installing the crankshaft position sensor and front sensor disc.

### Scope of Delivery:

#### KL-0680-752 K Locking Tool Set, Ford 2.0

Part No.	Description	Qty
KL-0680-7521	Locking Tool for Camshaft	1
KL-0680-7522	Locking Tool for Camshaft	1
KL-0680-7523	Crank Position Sensor Alignment Tool	1
KL-0680-18	Locking Pin for Crankshaft	1
KL-0180-3019	Locking Pin, Ø 1.9mm	1
KL-4990-2002	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1



## KL-1280-22 A Locking Tool Set for Timing Belt, Renault 2.0 and 2.5

**Applicable to Renault and Volvo TwinCam petrol engines.**

**Renault 2.0 16V (N7Q) and 2.5 20V (N7U) as found in Laguna and Safrane.**

**Volvo 1.8 16V (B4184 S2/S9), 1.9 T4 (B4194 T2) and 2.0 16V/T (B4204 S2/T3) as found in S40 I and V40.**

Designed for the locking/positioning of engine shafts such as camshaft and crankshaft when changing a timing belt or during engine repairs.

### Scope of Delivery:

#### KL-1280-22 A Locking Tool Set for Timing Belt, Renault 2.0 and 2.5

Part No.	Description	Qty
KL-1280-221 A	Locking Tool for Camshafts	1
KL-1280-222 A	Locking Pin for Crankshaft	1
KL-0180-3019	Retaining Pin for Hydraulic Tensioner Pulley, Ø 1.9mm	1
KL-1280-224 A	Tensioner Spanner with Retaining Pin for Auxiliary Belt	1

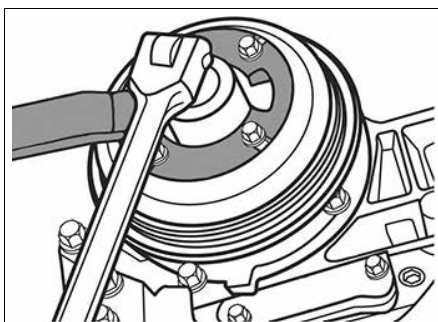


## KL-0780-30 Counter-Holding Tool, Crankshaft

**Applicable to Ford 2.5 and Volvo 1.6, 1.8, 1.9, 2.0, 2.3, 2.4, 2.5, 2.8 and 2.9 litre 4- and 5-cylinder petrol engines, and 2.0 and 2.4 litre 5-cylinder Diesel engines. Fitted to: Ford Focus, Galaxy, Kuga, Mondeo, S-MAX and Volvo C30, C70, S40, S60, S70, S80, V40, V50, V70, XC70, XC90.**

**(Engine codes: Ford HUBA, HUWA, HYDA, HYDB, JZDA, LCBD; Volvo B4164S, B4184S, B4194T, B4204S, B4204T, B5204T3, B5204T4, B5204T5, B5234FS, B5234T3, B5234T7, B5234T8, B5234T9, B5244S, B5244S2, B5244S4, B5244S5, B5244S7, B5244SG, B5244SG2, B5244T, B5244T2, B5244T3, B5244T4, B5244T5, B5244T7, B5254FS, B5254T, B5254T10, B5254T11, B5254T2, B5254T3, B5254T4, B5254T5, B5254T6, B5254T7, B5254T8, B6284T/T2, B6294S, B6294S2, B6294T, B6304S3, D5204T, D5204T2, D5204T3, D5204T5, D5244T, D5244T10, D5244T11, D5244T13, D5244T14, D5244T15, D5244T16, D5244T17, D5244T18, D5244T19, D5244T2, D5244T3, D5244T4, D5244T5, D5244T6, D5244T7, D5244T8, D5244T9)**

This tool is designed to be used for counter-holding the vibration damper while loosening and tightening the crankshaft central screw.



## KL-0280-755 K

### Locking Tool Set, VW 2.8, 3.2, 4.0 and 6.0

Applicable to VW-Audi, Seat and Ford Galaxy 2.8, 3.2 VR6, 4.0 W8 and 6.0 W12 petrol engines as found in: VW Bora, Sharan, Eos, Golf, Transporter T4, Transporter T5, Passat, Phaeton, Touareg; Audi A3, TT, A8; Seat Alhambra, Leon, and Ford Galaxy etc.

(Engine codes: AES, AUE, AYL, AYT, AZZ, BAA, BAN, BAP, BDB, BDE, BDL, BDM, BDN, BDP, BFH, BHE, BHT, BJN, BJS, BKJ, BKK, BKL, BMJ, BML, BMV, BMX, BRJ, BRK, BRN, BRP, BSB, BTE, BTT, BUB, CBRA)

Professional tool set for the locking/positioning of camshafts, crankshaft and timing chain tensioner. Indispensable when changing a timing chain or performing an engine repair.

**Scope of Delivery:**

**KL-0280-755 K Locking Tool Set, VW 2.8, 3.2, 4.0 and 6.0**

Part No.	Description	Qty
KL-0280-10	Locking Pin, Audi V6	1
KL-0280-951 A	Setting Gauge for Camshafts, VW-Audi	1
KL-0280-7551	Camshaft Alignment Tool (2-piece set)	1
KL-0280-7552	Chain Tensioner-Holding Tool	1
KL-4990-1107	Plastic Storage Case	1



## KL-0280-951 A

### Setting Gauge for Camshafts, VW-Audi

Suitable for use on VW-Audi 2.3, 2.8, 2.9, 3.2 and 6.0 litre petrol engines as found in VW Golf, Bora, Vento, Corrado, Passat, Sharan, Transporter; Seat Leon, Toledo, Alhambra; Ford Galaxy.

(Engine codes: AES, AGZ, AQN, AUE, AYL, AZX, BDE, BHE, BHT, BSB, BTE etc.)

This tool is designed for the locking/positioning of camshafts. It is required when changing timing chains and for engine repairs.



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## KL-0482-45 KA

### Locking Tool Set, Opel/Vauxhall 1.3 CDTi

Applicable to Opel/Vauxhall (Suzuki/Subaru) 1.3 litre CDTi/DDiS Diesel engines (Engine codes: A13DTC, A13DTE, A13DTR, D13A, LDV/A13DTC, LSF/A13DTE, Z13DT, Z13DTH, Z13DTI, Z13DTJ, Z13DTR) as found in Corsa, Swift etc.

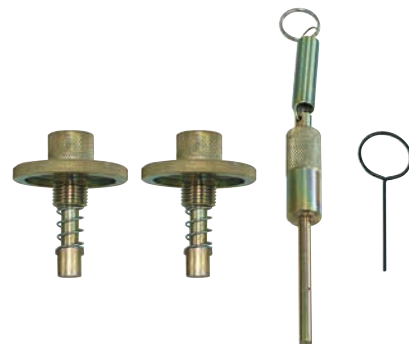
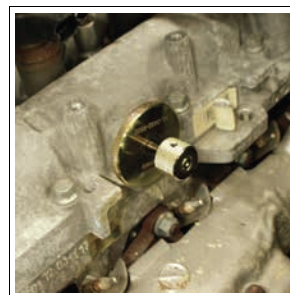
Applicable to Fiat (Alfa/Ford/Lancia/Citroën/Peugeot) 1.3 litre engines. (Engine codes: 169A1.000; 169A1.000 (FD4)/BAAA/B; 169A5.000; 188A8.000; 188A9.000; 199A2.000; 199A3.000; 199A9.000; 199B1.000; 199B1.0000; 199B2.000; 199B4.000; 223A9.000; 263A2.000; 263A2.000; F13DTE5 (FHZ))

This tool set is designed for the locking/positioning of engine shafts such as camshaft and crankshaft, as well as of the timing chain tensioner while replacing a timing chain or during an engine repair.

**Scope of Delivery:**

**KL-0482-45 K Locking Tool Set, Opel/Vauxhall 1.3 l CDTi**

Part No.	Description	Qty
KL-0482-450 A	Locking Tool for Camshaft (2 pcs.)	1
KL-0482-451 A	Locking Pin for Crankshaft, Ø 6mm	1
KL-0482-434	Retaining Pin, Ø 2.4mm	1
KL-0482-4590 A	Plastic Storage Case	1





## KL-0482-46 KB

### Locking Tool Set, Opel/Vauxhall

Applicable to Opel/Vauxhall, Alfa Romeo, Fiat, Lancia and Suzuki 1.6, 1.9, 2.0 and 2.4 litre Diesel engines as found in: Opel/Vauxhall Astra, Astra-H, Insignia, Signum, Vectra-C, Zafira-B; Saab 9-3, 9-5; Alfa 147, 156, 159, 166, Brera, Giulietta, GT, Mito, Spider; Fiat Bravo, Cromia, Doblo, Idea, Linea, Marea, Multipla, Punto, Ritmo, Sedici, Stilo, Strada; Lancia Delta, Lybra, Musa, Thesis; Suzuki SX4.

(Engine codes: 182B9.000, 186A6.000, 186A8.000, 186A9.000, 188A2.000, 188A3.000, 188A7.000, 188B2.000, 192A1.000, 192A3.000, 192A5.000, 192A8.000, 192A9.000, 192B1.000, 192B4.000, 192B5.000, 198A2.000, 198A3.000, 198A5.000, 198A6.000, 199A5.000, 223A6.000, 223A7.000, 223B1.000, 350A2.000, 350A3.000, 362.02, 371.01, 839A6.000, 841C.000, 841G.000, 841H.000, 841M.000, 841P.000, 844A1.000, 844A2.000, 844A3.000, 937A2.000, 937A3.000, 937A4.000, 937A5.000, 937A6.000, 939A1.000, 939A2.000, 939A3.000, 939A7.000, 939A8.000, 939A9.000, 939B3.000, 939B4.000, 940A3.000, 940A4.000, 940A5.000, 955A3.000, 955A4.000, A20DTC, A20DTH, A20DTJ, A20DTR, D19AA, D20AA, LBS, LBX, LBY, LCD, RHT, Z19DT, Z19DTH, Z19DTJ, Z19DTL, Z19DTR)

Designed for the locking/positioning of camshafts, crankshaft, and flywheel. The kit also includes a tool to lock the V-ribbed belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.

#### Scope of Delivery:

#### KL-0482-46 KB Locking Tool Set, Opel/Vauxhall

Part No.	Description	Qty
KL-1682-202 A	Locking Tool for Crankshaft	1
KL-0482-461 A	Locking Pin Set for Camshaft	1
KL-0482-462 A	Locking Pin, Ø 4mm	1
KL-1682-131 A	Flywheel Holding Tool	1
KL-1682-4290 A	Plastic Storage Case	1

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## KL-0482-46 KA

### Locking Tool Set, Fiat/Opel/Vauxhall

Application: Opel/Vauxhall and Saab 1.9 and 2.0 CDTi Diesel engines; as fitted to Opel/Vauxhall Vectra, Signum etc.

(Engine codes: LBS/A20DTH, LBX/A20DTJ, LBY/A20DTR, LCD/A20DTC, Z19DT, Z19DTH, Z19DTJ, Z19DTL, Z19DTR)

Also applicable to Alfa Romeo\* and Fiat\* 1.6 8/16V Multijet; 1.9 8/16V and 2.4 10/20V JTD Common Rail Diesel engines; as fitted to Alfa Romeo: 145, 146, 147, 156, 159, 166, GT; Fiat: Punto, Grande Punto, Brava/Bravo, Marea/Weekend, Stilo, Doblo/Cargo, Multipla; Lancia; Suzuki.

(Engine codes: 198A2.000, 198A3.000, 198A6.000, 350A2.000, 350A3.000, 844A3.000, 940A3.000, 955A3.000, 955A4.000, D19AA, RHT, 323.02, 371.01, 182B4.000, 182B9.000, 186A6.000, 186A8.000, 186A9.000, 188A2.000, 188A3.000, 188A7.000, 188B2.000, 192A1.000, 192A3.000, 192A8.000, 192A9.000, 192B4.000, 192B5.000, 199A5.000, 223A6.000, 223A7.000, 223B1.000, 844A1.000, 937A2.000, 937A3.000, 939A1.000, 939A7.000; 192A5.000, 192B1.000, 937A4.000, 937A5.000, 937A6.000, 939A2.000, 939A8.000; D20AA, 198A5.000, 844A2.000, 939B3.000, 939B4.000, 940A4.000, 940A5.000; 325.01, 342.02, 362.02, 185A6.000, 839A6.000, 841C.000; 841G.000, 841H.000, 841M.000, 841P.000, 939A3.000, 939A9.000.)

Designed to lock and/or position engine shafts such as camshaft and crankshaft\*, as well as to hold the timing belt tensioner in position when replacing a timing belt or during an engine repair.

\*Note: The KL-0482-46 KA locking tool set does not include the KL-1682-131 A flywheel holding tool.

#### Scope of Delivery:

#### KL-0482-46 KA Locking Tool Set, Fiat/Opel/Vauxhall

Part No.	Description	Qty
KL-1682-202 A	Locking Tool for Crankshafts, 1.9 JTD and 2.4 JTD	1
KL-0482-461 A	Locking Pin for Camshaft (2 pcs.)	1
KL-0482-462 A	Locking Pin, Ø 4mm	1
KL-0482-4690 A	Plastic Storage Case	1

## KL-0482-701

### Locking Tool Set, Opel/Vauxhall

Applicable to Opel/Vauxhall 1.7 DI / DTI / CDTI Diesel engines as found in: Astra-G, Astra-H, Astra-J, Combo-C, Corsa-C, Corsa-D, Meriva-A, Meriva-B, Zafira-A, Zafira-B. (Engine codes: A17DT, A17DTC, A17DTJ, A17DTR, A17DTS, LPL, LPV, LUB, LUD, LUE, Y17DT, Y17DTI, Y17DTL, Z17DT, Z17DTH, Z17DTJ, Z17DTL, Z17DTR)

These tools are used for locking/positioning engine shafts such as camshaft and injection pump shaft, as well as the V-ribbed belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.

**Scope of Delivery:**

**KL-0482-701 Locking Tool Set, Opel/Vauxhall**

Part No.	Description	Qty
KL-0482-462 A	Locking Pin, Ø 4mm	1
KL-1280-241 A	Hex Screw, M6x60mm	2
KL-0482-483	Retaining Pin (angled), Ø 4.5mm	1



## KL-1280-24 KC

### Locking Tool Set, Renault

Applicable to Renault, Opel/Vauxhall and Nissan 1.5, 1.9, 2.2, 2.5, 2.8 and 3.0 litre Common Rail Diesel engines as found in Renault Clio II / III, Espace IV, Fluence, Kangoo I / II, Laguna II / III, Logan, Mascott, Master II, Megane I / II / III, Modus I / II, Scenic I / II / III, Traffic II, Twingo II, Vel Satis; Dacia Duster, Logan; Nissan Cube, Interstar, Juke, Kubistar, Micra, Navara, Note, NV200, Primastar, Qashqai, Tiida; Suzuki Grand Vitara, Jimny; Mitsubishi Carisma, Space Star; Opel/Vauxhall Movano-A, Vivaro.

(Engine codes: F8Q 622, F8Q 630, F8Q 632, F8Q 662, F8Q 790, F9Q, F9Q1, F9Q2, F9Q 650, F9Q 660, F9Q 664, F9Q 670, F9Q 674, F9Q 680, F9Q 690, F9Q 731, F9Q 732, F9Q 733, F9Q 736, F9Q 740, F9Q 744, F9Q 748, F9Q 750, F9Q 751, F9Q 752, F9Q 754, F9Q 755, F9Q 758, F9Q 759, F9Q 760, F9Q 762, F9Q 770, F9Q 772, F9Q 774, F9Q 780, F9Q 782, F9Q 790, F9Q 800, F9Q 803, F9Q 804, F9Q 808, F9Q 812, F9Q 814, F9Q 818, F9Q 820, F9Q 826, F9Q 870, F9Q 872, F9Q B2, F9Q W772, G9T 600, G9T 605, G9T 606, G9T 607, G9T 642, G9T 645, G9T 700, G9T 702, G9T 702/703, G9T 703, G9T 706, G9T 707, G9T 720, G9T 722, G9T 742/743, G9T 750, G9T F722, G9U 630, G9U 632, G9U 650, G9U 720, G9U 724, G9U 726, G9U 730, G9U 750, G9U 754, G9U A720, K9K, K9K 262, K9K 266, K9K 299, K9K 700, K9K 702, K9K 704, K9K 706, K9K 710, K9K 712, K9K 714, K9K 716, K9K 718, K9K 722, K9K 724, K9K 728, K9K 729, K9K 732, K9K 740, K9K 750, K9K 752, K9K 760, K9K 762, K9K 764, K9K 766, K9K 768, K9K 770, K9K 772, K9K 774, K9K 780, K9K 782, K9K 790, K9K 792, K9K 794, K9K 796, K9K 800, K9K 802, K9K 804, K9K 806, K9K 808, K9K 830, K9K 832, K9K 834, K9K 836, K9K 837, K9K 842, K9K 846, K9K 884, K9K 892, K9K 894, K9K 896, K9K 898, S9W 206, S9W 208, S9W 212, S9W 700, S9W 702, VG30E)

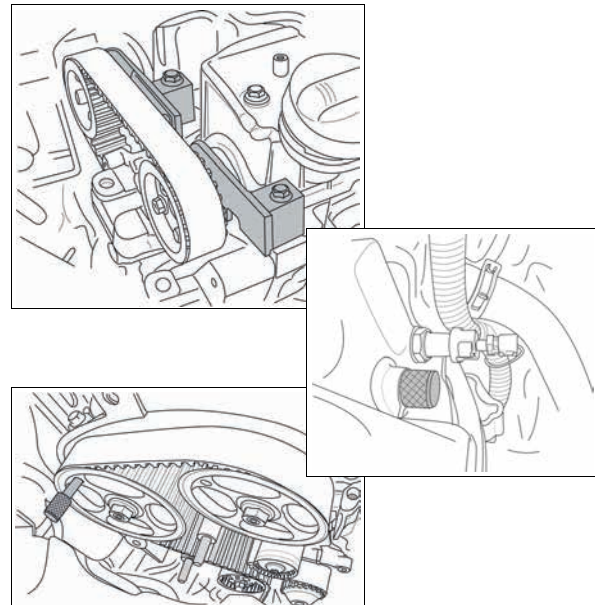
Designed for the locking/positioning of camshafts, crankshaft, injection pump, timing belt tensioner and flywheel. The kit also includes tools to stretch/pre-set the tension on the timing belt.

An indispensable tool set when changing a timing belt or performing an engine repair.

**Scope of Delivery:**

**KL-1280-24 KC Locking Tool Set, Renault**

Part No.	Description	Qty
KL-1280-203 A	Lockin Pin, Ø 4.9mm	1
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1280-234 B	Locking Pin, M10/Ø 7.9mm	1
KL-1280-240 B	Timing Belt Pre-Tensioning Tool	1
KL-1280-241 A	Hex Screw, M6x60mm	1
KL-1280-242 A	Locking Tool for Camshafts	1
KL-1280-243 B	Locking Pin, Ø 7mm	1
KL-1280-2010	Locking Tool for Injection Pump	1
KL-1280-2490 B	Plastic Storage Case	1





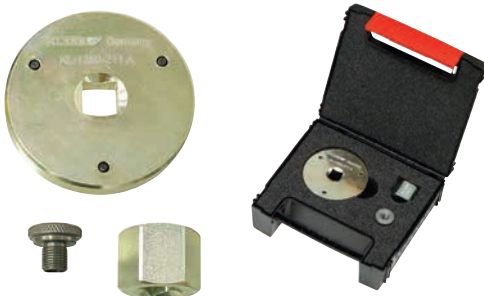
## KL-1280-702 K Locking Tool Set, Renault

Applicable to Mitsubishi, Nissan, Opel/Vauxhall, Renault, and Suzuki 1.9 and 3.0 litre Diesel engines as found in: Renault Clio II, Espace IV, Kangoo, Laguna II, Master II, Megane I / II / III, Scenic I / II / III / RX4, Traffic II; Opel/Vauxhall Movano-A, Vivaro; Mitsubishi Carisma, Space Star; Nissan Interstar, Primastar, Navara; Suzuki Grand Vitara; Volvo S40/V40. (Engine codes: F8Q 622, F8Q 630, F8Q 632, F8Q 662, F8Q 790, F9Q, F9Q1, F9Q2, F9Q 650, F9Q 660, F9Q 664, F9Q 670, F9Q 674, F9Q 680, F9Q 690, F9Q 731, F9Q 732, F9Q 733, F9Q 736, F9Q 740, F9Q 744, F9Q 748, F9Q 750, F9Q 751, F9Q 752, F9Q 754, F9Q 755, F9Q 758, F9Q 759, F9Q 760, F9Q 762, F9Q 770, F9Q 772, F9Q 774, F9Q 780, F9Q 782, F9Q 790, F9Q 800, F9Q 803, F9Q 804, F9Q 808, F9Q 812, F9Q 814, F9Q 818, F9Q 820, F9Q 826, F9Q 870, F9Q 872, F9Q B2, F9Q W722, VG30E)

Designed for the locking/positioning of the crankshaft, injection pump and timing belt tensioner. Kit also includes tools to stretch/pre-set the tension on the timing belt. An indispensable tool set when changing a timing belt or performing an engine repair.

### Scope of Delivery: KL-1280-702 K Locking Tool Set, Renault

Part No.	Description	Qty
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1280-240 B	Timing Belt Pre-Tensioning Tool	1
KL-1280-241 A	Hex Screw, M6x60mm	1
KL-1280-2010	Locking Tool for Injection Pump	1
KL-1280-2490 B	Plastic Storage Case	1



## KL-1280-21 KA Injection Pump Adjustment Tool, Renault 1.9 D

Applicable to Renault, Mitsubishi, Opel/Vauxhall and Volvo 1.9 litre direct-injection Diesel engines with adjustable injection pump sprocket as found in Renault Megane/Scenic, Kangoo; Mitsubishi Carisma, Space Star; Opel/Vauxhall Arena; Nissan Interstar, Primastar and Volvo S40/V40.

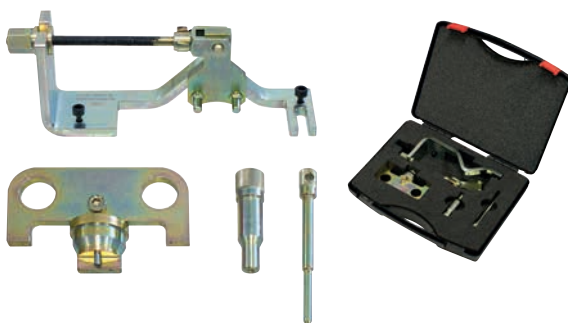
This injection pump adjustment tool is used in conjunction with the KL-0129-1 A tool set and the corresponding locking tools for adjusting the injection pump timing relative to the crankshaft (start-of-delivery setting).

### Scope of Delivery: KL-1280-21 KA Injection Pump Adjustment Tool

Part No.	Description	Qty
KL-1280-211 A	Adjustment Tool (3 Pins)	1
KL-1280-212 A	Special Socket, Size (waf) 27mm	1
KL-0129-2105 A	Adaptor for Bosch Pumps, M10x1 to M8x1	1
KL-1280-2190	Plastic Storage Case	1

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(Engine codes: F8Q, F8Q 622, F8Q 630, F8Q 632, F8Q 662, F8Q 790, F9Q, F9Q1, F9Q2, F9Q 650, F9Q 660, F9Q 664, F9Q 670, F9Q 674, F9Q 680, F9Q 690, F9Q 731, F9Q 732, F9Q 733, F9Q 736, F9Q 740, F9Q 744, F9Q 748, F9Q 750, F9Q 751, F9Q 752, F9Q 754, F9Q 755, F9Q 758, F9Q 759, F9Q 760, F9Q 762, F9Q 770, F9Q 772, F9Q 774, F9Q 780, F9Q 782, F9Q 790, F9Q 800, F9Q 803, F9Q 804, F9Q 808, F9Q 812, F9Q 814, F9Q 818, F9Q 820, F9Q 826, F9Q 870, F9Q 872, F9Q B2, F9Q W722, D 4192 T, D 4192 T2)



## KL-0482-41 KB Locking Tool Set, Opel/Vauxhall 2.0 D, 2.2 D

Suitable for the Opel/Vauxhall 2.0 and 2.2 ECOTEC/DTi Diesel engines as found in Opel/Vauxhall Astra, Astra Caravan, Zafira, Vectra, Omega, Sintra and Frontera. (Engine codes: X20DTL, X22DTH, Y20DTL, X20DTH, Y22DTH, Y20DTH, Y22DT, Y22DTR)

Designed to lock/position engine shafts such as camshaft, crankshaft as well as the injection pump and camshaft sprocket while adjusting the timing. Required when replacing a timing chain or during an engine repair.

### Scope of Delivery: KL-0482-41 KB Locking Tool Set, Opel/Vauxhall 2.0 D, 2.2 D

Part No.	Description	Qty
KL-0482-411 A	Setting Gauge for Camshaft	1
KL-0482-412 A	Locking Pin for Crankshaft	1
KL-0482-413 A	Locking Pin for Injection Pump	1
KL-0482-414 B	Adjustment Tool for Camshaft Sprocket	1
KL-0482-4190 A	Plastic Storage Case	1



## KL-0482-42 B

### Diesel Suction Pump with 700mm Hose, Opel/Vauxhall

Suitable for use on Opel/Vauxhall 2.0 and 2.2 Ecotec Diesel engines with VP 44 injection pump. (Engine codes: X20DTL, X20DTH, X22DTH)

This pump is needed to bleed the fuel system if the latter has been opened, for example, for a fuel filter replacement or for an engine repair.

**Scope of Delivery: KL-0482-42 B Diesel Suction Pump with 70cm Hose**

Part No.	Description	Qty
KL-0482-42 A	Diesel Suction Pump	1
KL-0482-420 B	Hose 700mm	1

**Note:** The KL-0482-420 B hose (700mm) is also individually available to allow the KL-0482-42 A Diesel suction pump to be upgraded to KL-0482-42 B.



## KL-0482-48 A

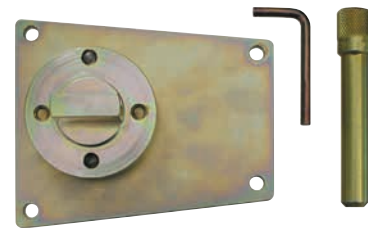
### Locking Tool Set, Opel/Vauxhall

Applicable to Opel/Vauxhall and Chevrolet 2.0 litre Diesel engines as found in: Opel/Vauxhall Antara, Captiva; Chevrolet Captiva, Cruze, Epica, Lacetti, Nubira. (Engine codes: LLW, RA420, Z20DM, Z20DMH, Z20S1)

These tools are designed to be used for the locking/positioning of engine shafts such as camshaft and crankshaft, as well as for locking the V-ribbed belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.

**Scope of Delivery: KL-0482-48 A Locking Tool Set, Opel/Vauxhall**

Part No.	Description	Qty
KL-0482-481	Locking Tool for Camshaft	1
KL-0482-482	Locking Pin, Ø 12mm	1
KL-0482-483	Retaining Pin (angled), Ø 4.5mm	1



## KL-1280-27 K

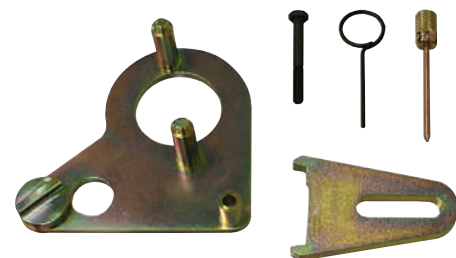
### Locking Tool Set, Renault 2.0 dCi

Applicable to Renault, Nissan, Opel/Vauxhall 2.0 and 2.3 dci Diesel engines as found in Renault Espace IV, Koleos, Laguna, Master, Megane, Senic III, Traffic II, Vel Satis; Nissan: Primastar, Qashqai, X-Trail; Opel/Vauxhall: Movano-B, Vivaro. (Engine codes: M9R, M9T)

Designed for the locking/positioning of camshaft, crankshaft and timing chain tensioner. An indispensable tool set when replacing a timing chain or performing an engine repair.

**Scope of Delivery: KL-1280-27 K Locking Tool Set, Renault 2.0 dCi**

Part No.	Description	Qty
KL-1280-271	Locking Tool for Camshaft	1
KL-1280-272	Locking Pin, M10/Ø 7.5mm	1
KL-0180-3026	Retaining Pin, Ø 2.6mm	1
KL-0182-19 A	Flywheel Locking Tool	1
KL-0482-462 A	Locking Pin, Ø 4mm	1
KL-1280-2790	Plastic Storage Case	1



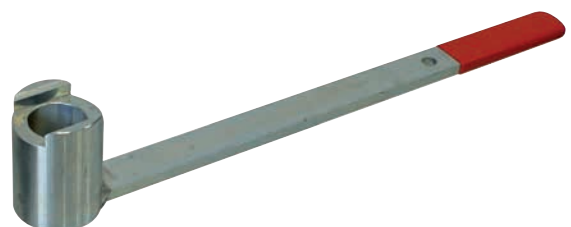
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## KL-1280-273

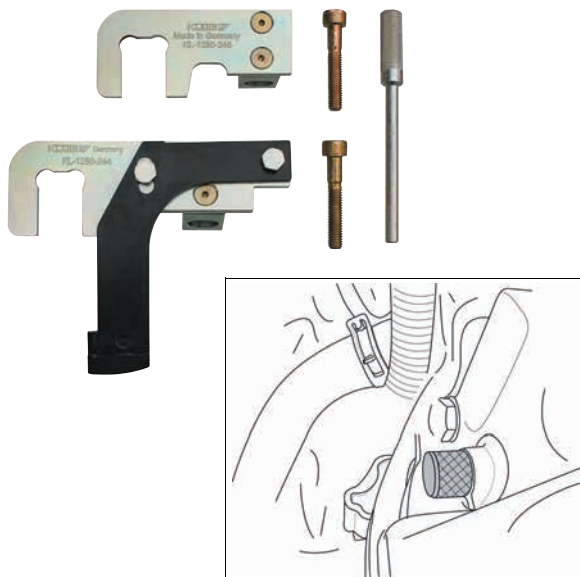
### Reaction Wrench

Applicable to Renault, Nissan, Opel/Vauxhall 2.0 dci, 2.3 dCi/CDTi and 3.0 dCi Diesel engines as found in Renault Espace, Koleos, Laguna, Latitude, Master, Megane, Traffic, Vel Satis; Nissan Primastar, Qashqai, X-Trail; Opel/Vauxhall Movano-B, Vivaro. (Engines codes: M9R, M9T, V9X)

This tool is used to counter-hold the crankshaft pulley while loosening/tightening the crankshaft central screw. Required when replacing a timing belt or performing an engine repair.







## KL-1280-703

### Locking Tool Set, Renault

Applicable to Nissan, Opel/Vauxhall and Renault 2.2 and 2.5 litre Diesel engines as found in: Renault Espace, Laguna II, Master II, Traffic II, Vel Satis; Opel/Vauxhall Movano-A, Vivaro; Nissan Interstar, Primastar.

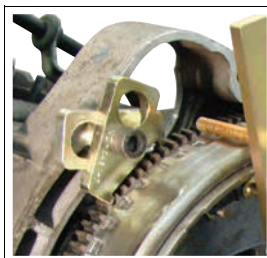
(Engine codes: G9T 600, G9T 605, G9T 606, G9T 607, G9T 642, G9T 645, G9T 700, G9T 702, G9T 703, G9T 706, G9T 707, G9T 720, G9T 722, G9T 742, G9T 743, G9T 750, G9T F722, G9U 630, G9U 632, G9U 650, G9U 720, G9U 724, G9U 726, G9U 730, G9U 750, G9U 754, G9U A720)

Designed for the locking/positioning of engine shafts such as camshafts and crankshaft. An indispensable tool set when replacing a timing belt or performing an engine repair.

#### Scope of Delivery:

#### KL-1280-703 Locking Tool Set, Renault

Part No.	Description	Qty
KL-1280-242 A	Locking Tool for Camshaft	1
KL-1280-243 B	Locking Pin, Ø 7mm	1



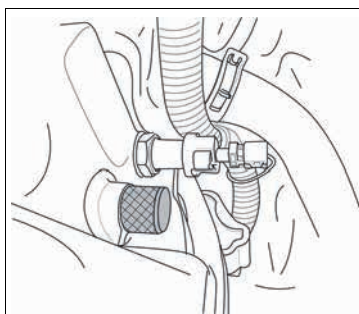
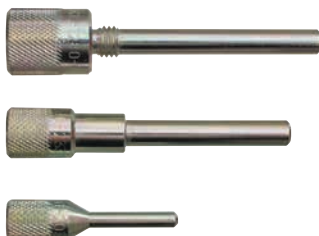
## KL-0481-70

### Flywheel Locking Tool (pair)

Applicable to Opel/Vauxhall 2.2 and 2.5 DTI/CDTI engines (Engine codes: G9T F722, G9T 720, G9T 750, G9U A720, G9U 724, G9U 726, G9U 750, G9U 754) and Suzuki 1.3 DDiS engines (Engine codes: D13A, Z13DT, Z13DTJ).

Designed to be used for locking the flywheel with the gearbox removed. Universal range of application.

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## KL-1280-701

### Locking Tool Set, Renault

Applicable to Dacia, Nissan, Opel/Vauxhall, Renault, Suzuki and Mercedes 1.5 and 2.8 litre Diesel engines as fitted to: Renault Clio II / III, Fluence, Kangoo I / II, Laguna III, Logan, Mascott, Master II / Propulsion / RWD, Megane II / III, Modus I / II, Scenic I / II, Twingo II; Opel/Vauxhall Movano-A; Dacia Duster, Logan / MCV / Pick-up / Van; Nissan Cube, Juke, Kubistar, Micra, Note, NV200, Qashqai, Tiida; Suzuki Jimny; Mercedes A-Class, B-Class, Citan, CLA.

(Engine codes: K9K, K9K262, K9K 266, K9K 299, K9K 700, K9K 702, K9K 704, K9K 706, K9K 710, K9K 712, K9K 714, K9K 716, K9K 718, K9K 722, K9K 724, K9K 728, K9K 729, K9K 732, K9K 740, K9K 750, K9K 752, K9K 760, K9K 762, K9K 764, K9K 766, K9K 768, K9K 770, K9K 772, K9K 774, K9K 780, K9K 782, K9K 790, K9K 792, K9K 794, K9K 796, K9K 800, K9K 802, K9K 804, K9K 806, K9K 808, K9K 830, K9K 832, K9K 834, K9K 836, K9K 837, K9K 838, K9K 842, K9K 846, K9K 884, K9K 892, K9K 894, K9K 896, K9K 898; S9W 206, S9W 208, S9W 212, S9W 700, S9W 702, 607.951)

Designed for the locking/positioning of engine shafts such as camshaft, crankshaft, injection pump and flywheel.

An indispensable tool set when changing a timing belt or performing an engine repair.

#### Scope of Delivery:

#### KL-1280-701 Locking Tool Set, Renault

Part No.	Description	Qty
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1280-234 B	Locking Pin, M10/Ø 7.9mm	1
KL-1280-203 A	Locking Pin, Ø 4.9mm	1

# KL-0482-47 KA

## Locking Tool Set, Opel/Vauxhall

Universally applicable to Alfa Romeo, Fiat, Lancia, Opel/Vauxhall and Suzuki petrol and Diesel engines as found in Opel/Vauxhall Agila, Astra, Barina, Combo-C, Corsa-C / -D, Frontera-B, Insignia, Meriva-A / -B, Omega-B, Signum, Tigra, Vectra-C, Zafira-A / -B; Saab 9.3, 9.5; Suzuki Ignis, Splash, Swift, Wagon R+; Subaru Justy; Alfa Mito; Fiat 500, Doblo, Fiorino, Idea, Linea, Panda, Punto, Qubo, Strada; Lancia Musa, Ypsilon; Ford Ka.

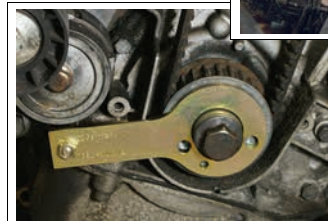
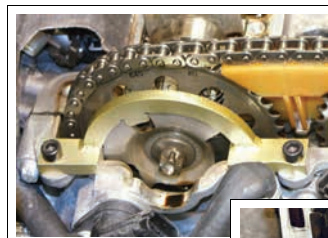
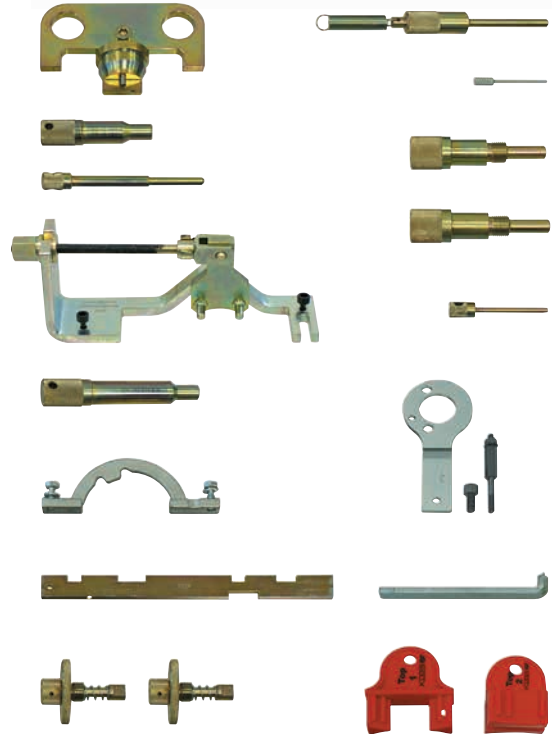
(Engine codes: 169A1.000, 169A5.000, 188A8.000, 188A9.000, 199A2.000, 199A3.000, 199A9.000, 199B1.000, 199B2.000, 199B4.000, 223A9.000, 263A2.000, A13DTC, A13DTE, A13DTR, D13A, LBS/A20DTH, LBX/A20DTJ, LBY/A20DTR, LCD/A20DTC, LDV/A13DTC, LSF/A13DTE, Y16XE, Y20DTH, Y20DTL, Y22DTH, Y22DTR, Y22SE, Z10XE, Z10XEP, Z12XE, Z12XEP, Z13DT, Z13DTE, Z13DTH, Z13DTI, Z13DTJ, Z13DTR, Z14XE, Z14XEL, Z14XEP, Z16XE, Z16YNG, Z18XE, Z18XEL, Z19DT, Z19DTH, Z19DTJ, Z19DTL, Z19DTR, Z20LEH, Z20LEL, Z20LER, Z20LET, Z22XE)

This tool set is designed for the locking/positioning of engine shafts such as camshaft, crankshaft, and injection pump shaft as well as the timing belt tensioner. Essential tool kit when changing a timing belt or performing an engine repair.

### Scope of Delivery:

#### KL-0482-47 KA Locking Tool Set, Opel/Vauxhall

Part No.	Description	Applications:
KL-0482-30	Locking Tool Set, Opel/Vauxhall 1.4, 1.6, 1.8, 2.0	1.4 16V (X14XE, Z14XE); 1.6 16V (C16XE, X16XE, Z16XE, X16XEL, Z16YNG); 1.8 16V (X18XE, Z18XE, Z18XEL); 2.0 16V (X20XEV, X20XER, Z20LER, Z20LEH) and 2.2 16V (X22SE, Y22SE, Y22XE, Z22XE) Opel/Vauxhall TwinCam petrol engines.
KL-0482-411 A	Setting Gauge for Camshaft	Opel/Vauxhall 2.0 and 2.2 Ecotec Diesel engines (X20DTL, X20DTH, Y20DTH, X22DTH) e.g. Opel/Vauxhall Astra, Astra Caravan, Zafira, Vectra, Omega, Sintra and Frontera.
KL-0482-412 A	Locking Pin for Crankshaft	Applications as KL-0482-411 A
KL-0482-413 A	Locking Pin for Injection Pump	Applications as KL-0482-411 A
KL-0482-414 B	Adjustment Tool for Camshaft Sprocket	Applications as KL-0482-411 A
KL-0482-432 A	Locking Pin for Crankshaft	Opel/Vauxhall TwinCam 1.0 12V; 1.2 and 1.4 16V petrol engines (X10XE, Z10XE, X10XEP, X12XE, Z12XE and Z14XEP e.g. Corsa, Agila, Astra and Meriva etc.
KL-0482-433 A	Setting Gauge for Camshaft Pulse Generator	Applications as KL-0482-432 A
KL-0482-450 A	Locking Tool for Camshaft (2 pieces)	Opel/Vauxhall 1.3 CDTi Diesel engines (Z13DT) e.g. Corsa etc.
KL-0482-451 A	Locking Pin for Crankshaft Ø 6mm	Applications as KL-0482-450 A
KL-0482-461 A	Locking Pin for Camshaft (2 pieces)	Opel/Vauxhall 1.9 CDTi Diesel engines (Z19DT, Z19DTH) e.g. Opel/Vauxhall Astra H, Vectra C, Signum, Zafira B etc.
KL-0482-462 A	Locking Pin, Ø 4mm	Applications as KL-0482-461 A
KL-0680-15 A	Setting Gauge for Camshafts	Applications as KL-0482-432 A
KL-1682-202 A	Locking Tool for Crankshafts, 1.9 JTD/2.4 JTD	Applications as KL-0482-461 A
KL-0180-3024	Retaining Pin, Ø 2.4mm	Designed to lock the automatic timing belt tensioner when replacing timing belts.
KL-0481-71 A	Locking Tool for Flywheel	Opel/Vauxhall 1.4 and 1.6 Eco-Tec 16 V; 1.2 - 1.6 OHC (with aluminium oil sump) and 1.8 16V (X18E1, X18XE1).
KL-0482-4790	Plastic Storage Case	





## KL-0182-1 A

(Universal)

### Flywheel Locking Tool

**Applicable to Renault vehicles equipped with either a 1.2, 1.5 or 1.6 litre engine such as Renault Clio II/III, Kangoo I/II, Megane III, Modus I/II, Twingo II.**  
(Engine codes: D4F, D4Ft, K9K, K4M)

Designed to lock the flywheel with the gearbox removed.  
Universal range of application.



## KL-0481-71 A

### Flywheel Locking Tool, Opel/Vauxhall

**Applicable to the following Opel/Vauxhall engines: 1.4 and 1.6 Eco-Tec 16V; 1.2-1.6 OHC (with aluminium oil sump) and 1.8 16V; 1.9 DI /DTI, 2.0 and 2.5 CDTi.**  
(Engine codes: A16LER, F4R 720/722, F4R 820, F9Q 760, F9Q 762, G9U 630, G9U 632, G9U 650, LGE/A16XNT, X18E1, X18XE1, Y16XE, Z14XE, Z16LER, Z16LET, Z16SE, Z16YNG, Z16XE, Z16XE1, Z16XEP, Z18XE, Z18XEL)

This tool is used for locking the flywheel.

## KL-0484-11 A

### V-Belt Tensioner Tool, Opel/Vauxhall 1.0, 1.2, 1.4, Torx® E18/E14

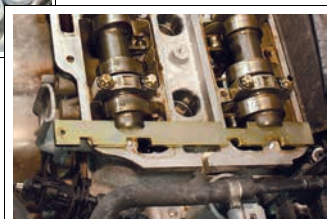
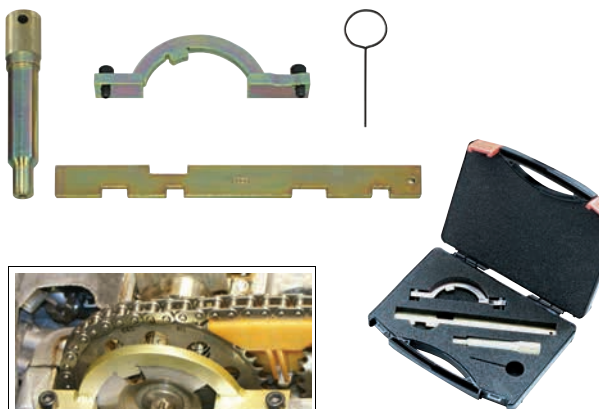
**Applicable to Opel/Vauxhall TwinCam (DOHC) 1.0 12V, 1.2 and 1.4 16V petrol engines as found in Corsa, Agila, Astra and Meriva etc.**  
(X10XE, Z10XE, Z10XEP, X12XE, Z12XE und Z14XEP)

When removing the auxiliary belt, it is necessary to set the belt tensioner to zero position using the **KL-0484-110 A** tensioner spanner, and then lock it in place by means of locking pin **KL-0484-111 A**.

#### Scope of Delivery: KL-0484-11 A V-Belt Tensioner Tool

Part No.	Description	Qty
KL-0484-110 A	V-Belt Tensioner Spanner, Torx® E18/E14	1
KL-0484-111 A	Locking Pin, Ø 3.9mm	1

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## KL-0482-43 KA

### Locking Tool Set, Opel/Vauxhall 1.0 12V, 1.2 16V, 1.4 16V

**Application: Opel/Vauxhall 1.0 12V as well as 1.2 and 1.4 16V TwinCam (DOHC) petrol engines; as fitted to Opel/Vauxhall Corsa C, Corsa D, Astra G, Astra H, Agila A, Combo C, Meriva A, Tigra B and Suzuki Wagon R+ etc.**  
(Engine codes: X10XE, Z10XE, Z10XEP, X12XE, Z12XE, Z12XEP, Z14XEL, Z14XEP)

Designed for the locking/positioning of engine shafts such as camshafts and crankshaft, as well as for locking the timing chain tensioner.

An indispensable tool set when changing a timing chain or performing an engine repair.

#### Scope of Delivery: KL-0482-43 KA Locking Tool Set

Part No.	Description	Qty
KL-0482-432 A	Locking Pin for Crankshaft	1
KL-0482-433 A	Setting Gauge for Camshaft Pulse Generator	1
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-0680-15 A	Setting Gauge for Camshafts	1
KL-0482-4390 A	Storage Case with Insert	1

## KL-0482-751 KA

### Locking Tool Set, Opel/Vauxhall

Applicable to Opel/Vauxhall 1.0, 1.2 and 1.4 litre petrol engines as found in Astra-J, Corsa-D, Insignia, Meriva-B, Zafira-C.

(Engine codes: A10XEP, A12XEL, A12XER, A14NEI, A14NEL, A14NET, A14XEL, A14XER, LDD, LUH, LUJ)

Designed for the locking/positioning of camshafts, crankshaft, and timing chain tensioner. The kit also includes a tool to lock the position sensor disc. An indispensable tool set when changing a timing chain or performing an engine repair.

Scope of Delivery: KL-0482-751 KA Locking Tool Set, Opel/Vauxhall

Part No.	Description	Qty
KL-0482-7510	Locking Tool for Camshaft	1
KL-0482-7513	Locking Tool for Camshaft	1
KL-0482-432 A	Locking Pin for Crankshaft	1
KL-0680-15 A	Setting Gauge for Camshaft	1
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-4990-2001	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1



## KL-0482-751 K

### Locking Tool Set, Opel/Vauxhall

Applicable to Opel/Vauxhall 1.0, 1.2 and 1.4 litre petrol engines as found in Astra-J, Corsa-D, Insignia, Meriva-B, Zafira-C.

(Engine codes: A12XEL, A12XER, A14NEI, A14NEL, A14NET, A14XEL, A14XER, LDD, LUH, LUJ)

The tool set is designed to be used for the locking/positioning of the timing chain tensioner and engine shafts such as camshafts and crankshaft when changing a timing chain or during an engine repair.

Scope of Delivery: KL-0482-751 K Locking Tool Set, Opel/Vauxhall

Part No.	Description	Qty
KL-0482-7510	Locking Tool for Camshaft	1
KL-0482-432 A	Locking Pin for Crankshaft	1
KL-0680-15 A	Setting Gauge for Camshafts	1
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-4990-2001	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1



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## KL-0482-32 K

### Locking Tool Set, Opel/Vauxhall

Applicable to the following Opel/Vauxhall TwinCam petrol engines: 1.4 16V (X14XE, Z14XE), 1.6 16V (C16XE, X16XE, Y16XE, Z16XE, X16XEL, Z16YNG), 1.8 16V (X18XE, Z18XE, Z18XEL), 2.0 16V (X20XE, X20XER, Z20LEH, Z20LEL, Z20LER, Z20LET) and 2.2 16V (X22SE, Y22SE, Y22XE, Z22XE) Opel/Vauxhall TwinCam petrol engines.

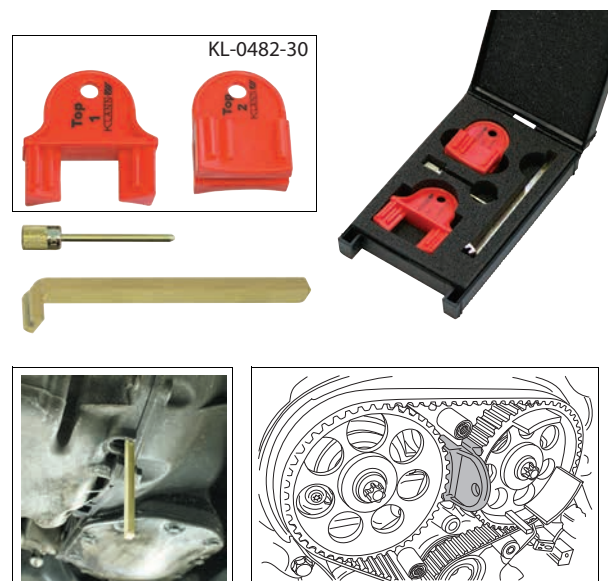
This tool set is designed for the locking/positioning of camshafts, and for the locking of the crankshaft. It also includes a tool to fix the V-ribbed belt tensioner pulley. Indispensable tool kit when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-0482-32 K Locking Tool Set, Opel/Vauxhall

Part No.	Description	Qty
KL-0481-71 A	Flywheel Locking Tool, Opel/Vauxhall	1
KL-0482-30	Locking Tool Set, Opel/Vauxhall 1.4, 1.6, 1.8, 2.0, 2.2	1
KL-0482-462 A	Locking Pin, Ø 4mm	1
KL-0482-3290	Plastic Storage Case	1

Scope of Delivery: KL-0482-30 Locking Tool Set

Part No.	Description	Suitable for
KL-0482-301	Locking Tool for Camshafts	Opel/Vauxhall 1.8 16V, 2.0 16V, 2.2 16V
KL-0482-302	Locking Tool for Camshafts	Opel/Vauxhall 1.4 16V, 1.6 16V



## KL-0482-33 KA

### Locking Tool Set,

Opel/Vauxhall 1.4, 1.6, 1.8, 2.0 and 2.2

Applicable to the Opel/Vauxhall TwinCam (DOHC) petrol engines:

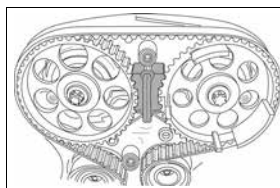
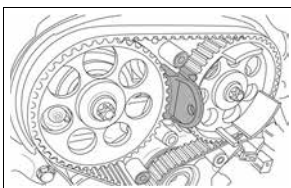
1.4 16V (G14D, X14XE, Z14XE), 1.6 16V (A16LEL, A16LER, A16LET, A16XER, A16XNT, LDE/A16XER, LDE/F16D4, LED, LGE/A16XNT, LLU/A16LET, LXV/F16D4, Y16XE, Z16LEL, Z16LER, Z16LET, Z16YNG, Z16XE, Z16XE1, Z16XEP, Z16XER, Z16XNT, 192B3.000/Z16XEP), 1.8 16V (A18XER, F18D, Z18XE, Z18XEL, Z18XER, 2HO/A18XEL, 2HO/A18XER, 2HO/Z18XER), 2.0 16V (X20XER, X20XEV, Z20LEH, Z20LEL, Z20LER, Z20LET) and 2.2 16V (X22SE, Y22SE, Z22SE, Y22XE, Z22XE, Z22YH); as installed in Opel/Vauxhall: Corsa C, Astra G, Vectra B, Vectra C, Meriva, Zafira A, Zafira B, Combo C, Corsa D, Astra H, Signum, Tigra B, Zafira, Speedster, Omega B, Sintra A, Frontera B, Alfa: 159, Chevrolet: Aveo, Cruze, Fiat: Croma.

Designed for the locking/positioning and checking of engine shafts such as camshaft and crankshaft. The set also includes tools to lock/position the timing belt tensioner. An indispensable tool kit when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-0482-33 KA Locking Tool Set, Opel/Vauxhall 1.4, 1.6, 1.8, 2.0 and 2.2

Part No.	Description	Qty
KL-0482-331	Locking Tool Set, Opel/Vauxhall 1.6	1
KL-0482-332	Flywheel Holding Tool	1
KL-0180-3019	Retaining Pin, Ø 1.9mm	1
KL-0481-71 A	Flywheel Locking Tool, Opel/Vauxhall	1
KL-0482-301	Locking Tool for Camshafts, Opel/Vauxhall 1.8, 2.0 and 2.2	1
KL-0482-302	Locking Tool for Camshafts, Opel/Vauxhall 1.4 and 1.6	1
KL-0482-440 A	Locking Tool Set, Opel/Vauxhall 2.2 16V	1
KL-0482-462 A	Locking Pin, Ø 4mm	1
KL-0482-333	Setting Gauge for Camshafts	1
KL-0482-3390	Plastic Storage Case	1



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## KL-0482-34 KA

### Locking Tool Set, Opel/Vauxhall

Applicable to Opel/Vauxhall 1.6, 1.8; Chevrolet 1.4, 1.6, 1.8, as well as Saab and Fiat 1.6 TwinCam petrol engines.

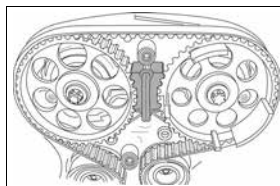
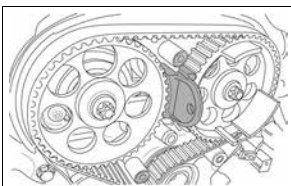
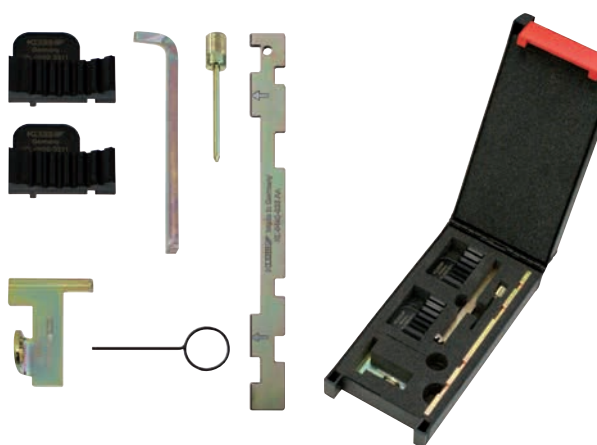
(Engine codes: A16LEL, A16LER, A16XER, A16XNT, A18XER, Z16LEL, Z16LER, Z16LET, Z16XE1, Z16XEP, Z16XER, Z16XNT, Z18XER, LED, F18D, G14D, LDE/A16XER, LDE/F16D4, LGE/A16XNT, LLU/A16LET, LXV/F16D4, 2HO/A18XEL, 2HO/A18XER, 2HO/Z18XER, 192.B3.000)

Designed for the locking/positioning of engine shafts such as camshafts and crankshaft. Also includes a tool to lock the timing belt tensioner. An indispensable tool set when changing a timing belt or performing an engine repair.

Scope of Delivery:

KL-0482-34 KA Locking Tool Set, Opel/Vauxhall

Part No.	Description	Qty
KL-0482-331	Locking Tool Set, Opel/Vauxhall 1.6	1
KL-0482-332	Locking Device for Flywheel	1
KL-0482-333 A	Setting Gauge for Camshafts	1
KL-0482-462 A	Locking Pin, Ø 4mm	1
KL-0481-71 A	Locking Tool for Flywheel	1
KL-0180-3019	Retaining Pin, Ø 1.9mm	1
KL-0482-3490	Plastic Storage Case	1



## KL-0482-331

### Locking Tool Set, Opel/Vauxhall 1.6

Applicable to Opel/Vauxhall (Chevrolet/Saab/Fiat) 1.4, 1.6, 1.8 litre TwinCam petrol engines. (Engine codes: A16LEL, A16LER, A16LET, A16XER, A16XNT, A18XER, F18D, G14D, LDE/A16XER, LDE/F16D4, LED, LGE/A16XNT, LLU/A16LET, LXV/F16D4, Z16LEL, Z16LER, Z16LET, Z16XE1, Z16XEP, Z16XER, Z16XNT, Z18XER, 192B3.000 (Z16XEP), 2HO/A18XEL, 2HO/A18XER, 2HO/Z18XER); as installed in Astra-G, Astra-H, Corsa-C, Corsa-D, Insignia, Meriva, Signum, Tigra-B Roadster, Vectra-B, Vectra-C, Zafira-A, Zafira-B etc.

This tool set is designed to lock two camshaft sprockets to one another, so as to prevent the camshaft from turning while changing the timing belt



## KL-0482-35

### Locking Tool Set, Opel/Vauxhall

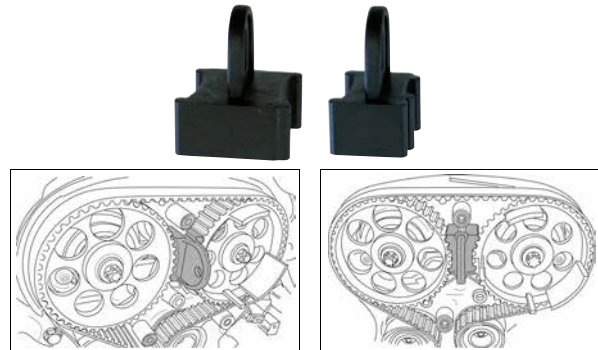
Applicable to Opel/Vauxhall 1.8 16V and 2.0 16V petrol engines as installed in Astra, Cavalier, Calibra, Vectra, Omega.

Indispensable tool set for the locking of camshafts/camshaft sprockets.

**Scope of Delivery:**

**KL-0482-35 Locking Tool Set, Opel/Vauxhall**

Part No.	Description	Qty
KL-0482-313 A	Locking Tool for Camshafts, 1.8 16V and 2.0 16V	1
KL-0482-314 A	Locking Tool for Camshafts, 2.0 16V	1



## KL-1280-23 KB

### Locking Tool Set for Timing Belt, Renault 1.4, 1.6, 1.8, 2.0 16V and 1.5 dCi

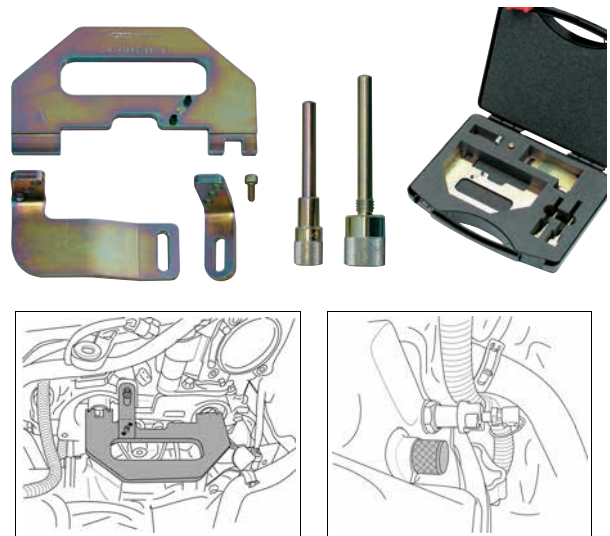
Applicable to Renault 1.4, 1.6 16V (K4J / K4M [98-]), 1.8, 2.0 16V (F4P / F4Rt / F4R [98-]) TwinCam petrol engines, and 1.5 dCi (K9K) Diesel engines; as installed in Renault Clio, Clio Sport, Modus, Megane / Scenic, Kangoo, Espace, Laguna; Nissan Micra, Almera, Kubistar, Cube, Juke, Note, NV200, Qashqai and Tiida; Dacia 1.5 Duster and Logan; Opel/Vauxhall Vivaro; Suzuki 1.5 Jimny.

Tool set for the locking/positioning of engine shafts such as camshafts and crankshaft; required when changing a timing belt or during an engine repair.

**Scope of Delivery:**

**KL-1280-23 KB Locking Tool Set for Timing Belt**

Part No.	Description	Qty
KL-1280-231 B	Setting Gauge for Camshafts	1
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1280-234 B	Locking Pin, M10/Ø 7.9mm	1
KL-1280-2390 B	Plastic Storage Case	1



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## KL-1280-237

### Installation Tool Set, Renault

Suitable for use on Renault 1.4, 1.6, 1.8 and 2.0 16V TwinCam petrol engines as found in Renault Clio, Avantime, Laguna, Megane, Modus, Scenic, Traffic, Twingo, Vel Satis, Kangoo and Espace; Dacia Duster and Logan; Nissan Primastar; Opel/Vauxhall Vivaro. (Engine codes: K4J, K4M, F4P, F4R, F4Rt, F5R).

These tools allow for the quick and easy installation of camshaft plugs. They are required when replacing a timing belt or performing an engine repair.

**Scope of Delivery:**

**KL-1280-237 Installation Tool Set, Renault**

Part No.	Description	Qty
KL-1280-2371	Installation Tool, Ø 43mm	1
KL-1280-2372	Installation Tool, Ø 57.5mm	1





## KL-0482-44 KA

### Locking Tool Set, Opel/Vauxhall 2.2 16V

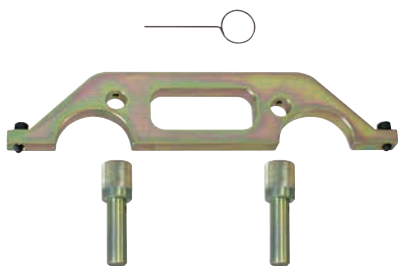
Applicable to Opel/Vauxhall 2.2 16V TwinCam (DOHC) petrol engines (Z22SE, Z22YH, 194A1.000) as installed in Astra, Signum, Speedster, Vectra and Zafira etc.; Fiat Croma.

Designed for the locking/positioning of camshafts, timing chain tensioners, and water pump pulleys. The kit also includes a tool to hold the crankshaft pulley in position. An indispensable tool kit when performing an engine repair, for example, when changing a timing chain or when removing/installing a water pump.

**Scope of Delivery:**

**KL-0482-44 KA Locking Tool Set, Opel/Vauxhall 2.2 16V**

Part No.	Description	Qty
KL-0482-442 A	Locking Tool for Water Pump, Opel/Vauxhall 2.2 16V	1
KL-0184-041	Reaction Wrench, Opel/Vauxhall	1
KL-0482-440 A	Locking Tool Set, Opel/Vauxhall 2.2 16V	1
KL-0482-4090	Plastic Storage Case	1



## KL-0482-440 A

### Locking Tool Set, Opel/Vauxhall 2.2 16V

Applicable to Opel/Vauxhall 2.2 16V TwinCam (DOHC) petrol engines (Z22SE, Z22YH, 194A1.000) as found in Astra, Signum, Speedster, Vectra and Zafira etc.; Fiat Croma.

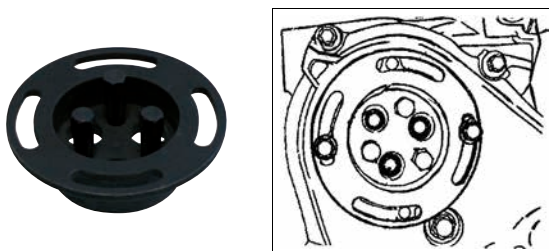
Designed for the locking/positioning of the camshafts and timing chain tensioner during an engine repair.

**Scope of Delivery:**

**KL-0482-440 A Locking Tool Set, Opel/Vauxhall 2.2 16V**

Part No.	Description	Qty
KL-0482-4401 A	Locking Tool for Camshafts, Opel/Vauxhall 2.2 16V	1
KL-0180-3012	Retaining Pin, Ø 1.2mm	1

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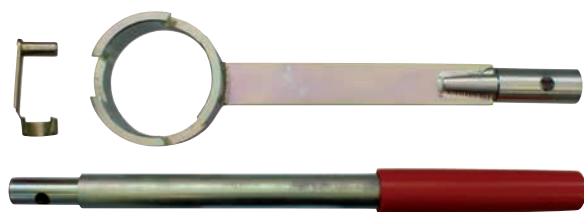


## KL-0482-442 A

### Locking Tool for Water Pump, Opel/Vauxhall 2.2 16V

Applicable to Opel/Vauxhall 2.2 16V TwinCam (DOHC) petrol engines (Z22SE) as found in Astra, Signum, Speedster, Vectra and Zafira etc.

When removing/installing the water pump, it is necessary to lock the water pump pulley by means of tool **KL-0482-442 A**.



## KL-0184-041

### Reaction Wrench, Opel/Vauxhall

Applicable to Opel/Vauxhall 2.2 16V TwinCam (DOHC) petrol engines; as fitted to Opel/Vauxhall Astra-G, Astra-H, Signum, Vectra-B, Vectra-C, Speedster, Zafira-A, Zafira-B; Fiat Croma. (Engine codes: Z22SE, Z22YH, 194A1.000); Alfa 159 (939) 2.2 JTS (Engine code: MKB 939 A5.000)

This tool is designed to counter-hold the crankshaft pulley while loosening/tightening the crankshaft central screw.

**Scope of Delivery:**

**KL-0184-041 Reaction Wrench, Opel/Vauxhall**

Part No.	Description	Qty
KL-0184-0410	Reaction Wrench (Base Tool)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0103	Folding Spring Bolt	1

**Technical Data:**

Length of assembled tool:	694mm
Length of extension tube with protective handle:	403mm
Length of base tool:	341mm

## KL-0482-40 K

### Locking Tool Set, Opel/Vauxhall V6 engine

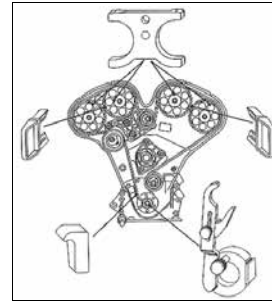
**Applicable to Opel/Vauxhall 2.5, 2.6, 3.0 and 3.2 V6 petrol engines.**  
**(Engine codes: C25XE, X25XE, Y26SE, X30XE, Y32SE, Z23SE, Z32SE until 2006)**  
**Saab (B308E)**

The KL-0482-40 K locking tool set is designed for the Opel/Vauxhall V6 engines and contains all the tools required for locking the crankshaft drive and camshaft sprockets during service work; for example for the removal, replacement/installation of the timing belt on Ecotec V6 multi-valve engines. This tool set is indispensable for the accurate positioning of the camshaft sprockets relative to the TDC (top dead centre) position of the crankshaft while installing a timing belt.

**Scope of Delivery:**

**KL-0482-40 K Locking Tool Set, Opel/Vauxhall V6 engine**

Part No.	Description	Qty
KL-0482-401	Locking Tool for Crankshaft, Opel/Vauxhall V6	1
KL-0482-402	Setting Gauge for Camshaft, Opel/Vauxhall V6	1
KL-0482-403	Holding Tool for Timing Belt, Opel/Vauxhall V6	1
KL-0482-404	Locking Tool for Camshafts (red), Opel/Vauxhall V6	1
KL-0482-405	Locking Tool for Camshafts (green), Opel/Vauxhall V6	1
KL-0482-4090	Plastic Storage Case with Insert	1



## KL-0482-400

### Locking Tool Set, Opel/Vauxhall V6

**Applicable to Opel/Vauxhall V6 engines (Engine codes: X25XE, X26SE, X30XE, Y32SE), Saab 3.0 litre engine (Engine code: B308E).**

This tool set is designed to lock two camshaft sprockets to one another, so as to prevent the camshaft from turning while changing the timing belt.



**Suitable for:**

**KL-0482-400 Locking Tool Set, Opel/Vauxhall V6**

Part No.	Description	Qty
KL-0482-404	Locking Tool for Camshaft (red), Opel/Vauxhall V6	1
KL-0482-405	Locking Tool for Camshaft (green), Opel/Vauxhall V6	1

## KL-0123-2 A

### Reaction Wrench, Size (waf) 36mm

**Suitable for use on Ford, Opel/Vauxhall and GM vehicles.**

Designed to counter-hold the viscous clutch drive shaft when removing/installing the viscous clutch.



**Technical Data:**

Size (waf):	36mm
Length:	280mm
Height:	11mm
Weight:	340g

## KL-0483-10

### Counter-Holding Tool, 39mm waf

**Suitable for use on Opel/Vauxhall and GM 1.6 litre OHC engines.**

**(Engine codes: X16S2R, Z16SE)**

This tool is designed to turn the water pump for adjusting the tension on the drive belt.



**Technical Data:**

Size (waf):	39mm
Drive:	1/2"
Length:	90mm
Weight:	110g





**Advantages:**

- Ensures the viscous clutch is securely counter-held.
- Prevents damage to the viscous clutch.
- High-quality tool due to a special manufacturing process.

## KL-0483-11

### Counter-Holding Tool, 41mm waf

**Suitable for use on Opel/Vauxhall and GM 1.2, 1.3, 1.4, 1.6 litre OHC engines; Daewoo 1.4, 1.5, 1.6, 1.8; Chevrolet 1.4, 1.6. (Engine codes: A13DM/14SMS, A15DM/15SMS, A16DM, A16DMS, F14D3, F14S3, F16D3, F18N, LXT, Z16SE)**

This tool is designed to turn the water pump for adjusting the tension on the drive belt.

**Technical Data:**

Size (waf):	41mm
Drive:	1/2"
Length:	90mm
Weight:	110g



## KL-0483-12

### Counter-Holding Tool, 46mm waf

**Suitable for use on Opel/Vauxhall and GM OHC engines.**

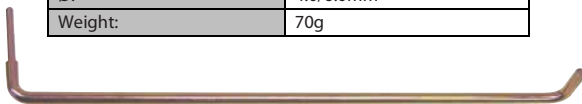
This tool is designed to turn the water pump for adjusting the tension on the drive belt.

**Technical Data:**

Size (waf):	46mm
Drive:	1/2"
Length:	90mm
Weight:	110g

**Technical Data:**

Ø:	4.0/6.0mm
Weight:	70g



## KL-0484-10

### Locking Tool, VW-Audi / Opel/Vauxhall

This tool is used for the locking of the automatic tensioner pulley for V-ribbed belt and timing belt on **VW-Audi** engines.

Also suitable for the automatic tensioner pulley for V-ribbed belt on **Opel/Vauxhall** vehicles that are fitted with an EcoTec engine.

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## KL-1682-43 KA

### Locking Tool Set, 1.3 JTD

**Applicable to Fiat 1.3 16V Common Rail Diesel engines as fitted to:**

- Alfa Romeo, Fiat, Lancia JTD Multi-Jet (engine codes: 169A1.000, 169A5.000, 188A8.000, 188A9.000, 199A2.000, 199A3.000, 199A9.000, 199B1.000, 199B2.000, 199B4.000, 223A9.000, 263A2.000, 843A2.000)
- Ford TDCi Duratorq (engine code: FD4)
- Opel/Vauxhall CDTi (engine codes: A13DTC, A13DTE, A13DTR, D13A, LDV/A13DTC, LSF/A13DTE, Y13DT, Y13DTH, Z13DT, Z13DTE, Z13DTH, Z13DTI, Z13DTJ, Z13DTR)
- Suzuki DDiS (engine codes: D13A, Z13DT, Z13DTJ)
- Subaru (engine code: Z13DT)
- Citroën, Peugeot (engine code: F13DTE5 (FHZ))

This tool set is designed to counter-hold the crankshaft while loosening or tightening the crankshaft central screw. It also includes tools to lock/position engine shafts such as camshaft and crankshaft when replacing a timing chain or during an engine repair.

**Scope of Delivery:**

**KL-1682-43 KA Locking Tool Set, 1.3 JTD**

Part No.	Description	Qty
KL-0482-450 A	Locking Tool for Camshaft (2 pieces)	1
KL-1682-434 A	Locking Pin, Ø 8mm	1
KL-0482-451 A	Locking Pin for Crankshaft, Ø 6mm	1
KL-1682-435	Counter-Holding Tool Set, Crank/Cam	1
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-1682-432 A	Holding Tool for Timing Chain Tensioner	1
KL-1682-4390 A	Plastic Storage Case	1



## KL-1682-433

### Locking Tool for Crankshaft

Applicable to Fiat 1.3 16V Common Rail Diesel engines.

Designed to lock/position the crankshaft.



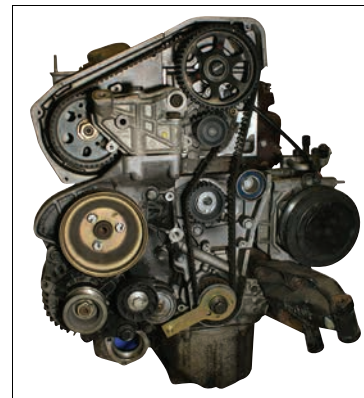
## KL-0482-46 KB

### Locking Tool Set, Opel/Vauxhall

Applicable to Opel/Vauxhall, Alfa Romeo, Fiat, Lancia and Suzuki 1.6, 1.9, 2.0 and 2.4 litre Diesel engines as found in: Opel/Vauxhall Astra, Astra-H, Insignia, Signum, Vectra-C, Zafira-B; Saab 9-3, 9-5; Alfa 147, 156, 159, 166, Brera, Giulietta, GT, Mito, Spider; Fiat Bravo, Croma, Doblo, Idea, Linea, Marea, Multipla, Punto, Ritmo, Sedici, Stilo, Strada; Lancia Delta, Lybra, Musa, Thesis; Suzuki SX4.

(Engine codes: 182B9.000, 186A6.000, 186A8.000, 186A9.000, 188A2.000, 188A3.000, 188A7.000, 188B2.000, 192A1.000, 192A3.000, 192A5.000, 192A8.000, 192A9.000, 192B1.000, 192B4.000, 192B5.000, 198A2.000, 198A3.000, 198A5.000, 198A6.000, 199A5.000, 223A6.000, 223A7.000, 223B1.000, 350A2.000, 350A3.000, 362.02, 371.01, 839A6.000, 841C.000, 841G.000, 841H.000, 841M.000, 841P.000, 844A1.000, 844A2.000, 844A3.000, 937A2.000, 937A3.000, 937A4.000, 937A5.000, 937A6.000, 939A1.000, 939A2.000, 939A3.000, 939A7.000, 939A8.000, 939A9.000, 939B3.000, 939B4.000, 940A3.000, 940A4.000, 940A5.000, 955A3.000, 955A4.000, A20DTC, A20DTH, A20DTJ, A20DTR, D19AA, D20AA, LBS, LBX, LBY, LCD, RHT, Z19DT, Z19DTH, Z19DTJ, Z19DTL, Z19DTR)

Designed for the locking/positioning of camshafts, crankshaft and flywheel. The kit also includes a tool to lock the V-ribbed belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.



#### Scope of Delivery:

#### KL-0482-46 KB Locking Tool Set, Opel/Vauxhall

Part No.	Description	Qty
KL-1682-202 A	Locking Tool for Crankshaft	1
KL-0482-461 A	Locking Pin Set for Camshaft	1
KL-0482-462 A	Locking Pin, Ø 4mm	1
KL-1682-131 A	Flywheel Holding Tool	1
KL-1682-4290 A	Plastic Storage Case	1

## KL-0680-220 B

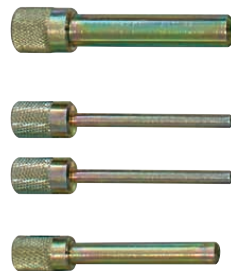
### Set of Locking Pins,

### Citroën/Mazda/Peugeot/Suzuki/Toyota/Volvo

Applicable to Citroën 1.4, 1.4 Hdi, 1.6 Hdi, 2.0; Fiat 1.6 JTD; Ford 1.4 TDCi, 1.6 TDCi; Mazda 1.4 TDCi, 1.6 D, 1.6 MZ-CD; Peugeot 1.4 Hdi, 1.6 Hdi; Suzuki 1.4 DDi; Toyota 1.0 VVT, 1.4 Di, 1.4 HDI; Volvo 1.6 D Diesel engines.

(Engine codes: 8HP, 8HR, 8HS, 8HT, 8HV, 8HW, 8HX, 8HY, 8HZ, 9HF, 9HH, 9HJ, 9HL, 9HM, 9HN, 9HP, 9HR, 9HS, 9HT, 9HU, 9HV, 9HW, 9HX, 9HY, 9HZ, D4162T, D4164T, DV4C, DV4TD, DV4TED, DV4TED4, DV6, DV6C, DV6ATED4, DV6AUTED4, DV6BTED4, DV6BUTED4, DV6D, DV6DTED, DV6DU, DV6ETED, DV6TED4, DV6TED4B, DV6TED4BU, DV6UC, DV6UTED4, F6J4, F6JA, F6JB, F6JC, F6JD, G8DA, G8DB, G8DD, GPDA, HHDA, HHDB, HHJA, HHJB, HHJC, HHJD, HHJE, HHJF, MZ-CD 1.6 (Y6), T1BA/B/C, TZJA, Y6)

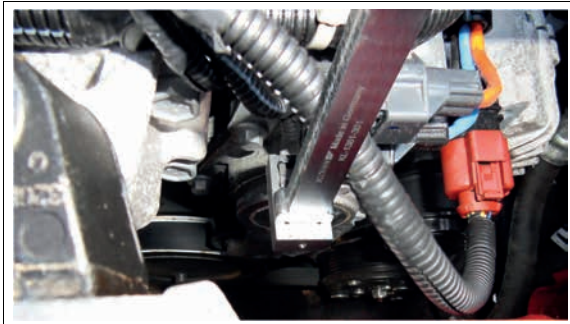
These pins are used for the locking/positioning of engine shafts such as camshaft, injection pump shaft and crankshaft when replacing a timing belt or during an engine repair.



#### Scope of Delivery:

#### KL-0680-220 B Set of Locking Pins

Part No.	Description	Qty
KL-0680-2201 A	Locking Pin, Ø 11mm	1
KL-0680-2202 A	Locking Pin, Ø 4.5mm	2
KL-0680-2203 A	Locking Pin, Ø 7.5mm	1



## KL-1381-30

### Tensioner Tool with Retaining Pin

Applicable to PSA (Citroën, Peugeot), Fiat and Ford 1.4 und 1.6 litre Diesel engines as found in:

Citroën Berlingo/Berlingo First I/II, C1, C2, C3 I/II/First/Classic, C3 III, C3 Picasso, C3 Pluriel, C4 II, C4 Picasso/Grand Picasso, C5 III, DS3, Berlingo III, DS4, DS3, DS4, Xsara II, Xsara Picasso and Peugeot Partner III, 206, 207, 207 CC, 308, 308 CC, 508, 3008, 5008.

(Engine codes: DV4, DV6)

Facilitates the tensioning and locking of V-ribbed belt tensioners.

This tool allows for the removal/installation of the V-ribbed belt in situ on the vehicle even in very limited space conditions.

#### Technical Data:

Length of tension lever:	465mm
Ø of retaining pin:	4.2mm

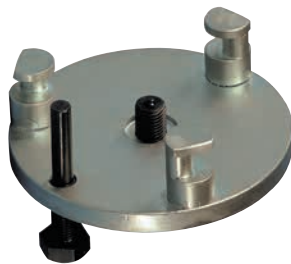
#### Scope of Delivery:

##### KL-1381-30 Tensioner Tool with Retaining Pin

Part No.	Description	Qty
KL-1381-3021	Retaining Pin (angled), Ø 4.2mm	1
KL-1383-301	Tension Lever with Base Body	1

## KL-1682-16

### Injection Pump Locking Tool, Fiat 1.7 D, 1.9 D



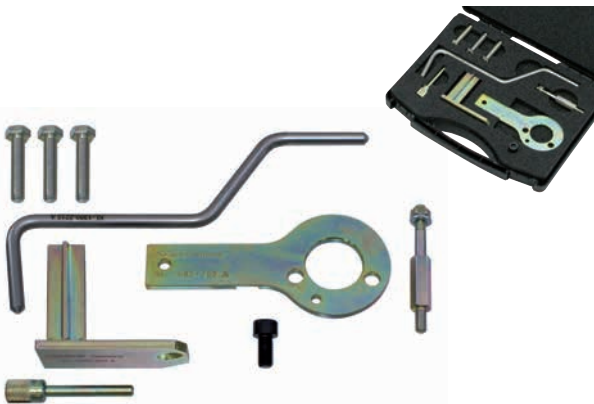
Suitable for use on Fiat 1.7 and 1.9 litre Diesel/Turbodiesel engines with a non-adjustable camshaft timing belt sprocket; as installed in Fiat Croma 1.9 TD, Ducato 1.9 D (-94), Duna 1.7 D, Fiorino 1.7 D (-94), Punto 1.7 D / TD (93-95), Regata 1.7 D, Ritmo/Strada 1.7 D, Talento 1.9 D, Tempra 1.9 D, Tipo 1.7 D, Tipo 1.9 D / TD, Uno 1.7 D.

This tool is designed to lock/position the injection pump sprocket when replacing a timing belt. It can also be used to pull off the injection pump sprocket when removing the injection pump or during an engine repair.

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## KL-1682-20 KA

### Locking Tool Set for Timing Belt, Fiat 1.9 D/TD/JTD, 2.1 TD, 2.4 TD



Applicable to Fiat 1.9 D/TD/JTD, 2.4 TD/JTD and PSA 1.9 D/TD, 2.1 TD Diesel engines as installed in Fiat Brava, Bravo, Marea, Marea Weekend, Multipla, Punto, Scudo, Ulysse.

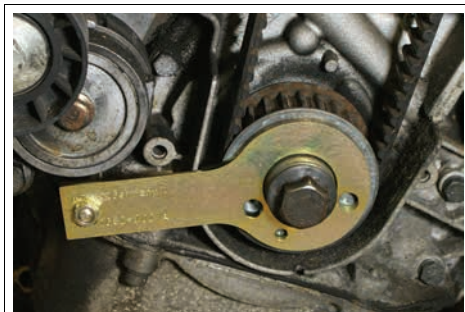
(Engine codes: 160 A7.000, 182 A7.000, 182 A8.000, 182 B4.000, 185 A2.000, 185 A6.000, 188 A2.000 und 188 A3.000)

Designed to lock/position the flywheel and engine shafts such as camshaft, injection pump shaft and crankshaft when replacing a timing belt or during an engine repair.

#### Scope of Delivery:

##### KL-1682-20 KA Locking Tool Set for Timing Belt

Part No.	Description	Qty
KL-1380-2211 A	Locking Pin, Ø 6mm	1
KL-1380-2215 A	Locking Pin (angled) for Flywheel, Ø 7.7mm	1
KL-1480-18	Hex Screw, M8x40mm	3
KL-1682-201 A	Flywheel Holding Tool, 1.9 D	1
KL-1682-202 A	Locking Tool for Crankshaft 1.9 JTD/2.4 JTD	1
KL-1682-2090 A	Plastic Storage Case	1



## KL-0680-701 K

### Locking Tool Set, Ford, Fiat, PSA 2.2

**Applicable to Ford, Fiat, Citroën and Peugeot 2.2 litre Common Rail Diesel engines. For example, fitted to: Ford Transit, Fiat Ducato, Citroën Relay/Jumper III and Peugeot Boxer III.**

For locking the crankshaft and camshaft, as well as for aligning the engine front cover when installing it. The set also includes the necessary tool to remove/install crankshaft seal rings. An indispensable tool set when replacing timing chains or performing engine repairs.

**Scope of Delivery: KL-0680-701 K Locking Tool Set, Ford, Fiat, PSA 2.2**

Part No.	Description	Qty
KL-0680-7011	Locking Tool, Crankshaft	1
KL-0680-7012	Cap for Crankshaft	1
KL-0680-7013	Turning Tool for Injection Pump	1
KL-0680-2102 A	Locking Pin, Ø 14/10mm	1
KL-0680-2103 A	Locking Pin, Ø 6mm	2
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-1007	Plastic Storage Case	1



(Engine codes: 4HU (P22DTE), 4HV (P22DTE), CYFA, CYFB, CYFC, DRFA, DRFB, DRFC, P22DTE, P8FB, PGFA, PGFB, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, USRA)

## KL-1682-26 KA

### Locking Tool Set, 2.3, 2.8 and 3.0 JTD

**Applicable to Fiat, Citroën, Peugeot and Iveco 2.3, 2.8 and 3.0 litre Diesel engines as found in: Fiat Ducato; Peugeot Boxer; Citroën Relay, Jumper; Iveco Daily.**

Designed for the locking/positioning of the injection pump shaft, camshafts and crankshaft. The kit also includes tools to lock the timing belt tensioner and to fix the timing belt during installation. An indispensable tool set when replacing a timing belt or performing an engine repair.

**Scope of Delivery: KL-1682-26 KA Locking Tool Set, 2.3, 2.8 and 3.0 JTD**

Part No.	Description	Qty
KL-0680-2201 A	Locking Pin, Ø 11mm	1
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1682-2601	Locking Tool for Flywheel	1
KL-1380-2213 A	Locking Pin, Ø 4.9mm	1
KL-1682-2401	Spacer Sleeve for Timing Belt	1
KL-1682-410 A	Locking Tool for Camshaft	1
KL-1682-411 A	Locking Tool for Crankshaft	1
KL-1380-237 A	Retaining Clip for Timing Belt	1
KL-1682-2690	Plastic Storage Case	1



(Engine codes: 8140.43B, 8140.43C, 8140.43N, 8140.43R, 8140.43S, 8140.63, F1AE0481A, F1AE0481B, F1AE0481C, F1AE0481D, F1AE0481F, F1AE0481FA, F1AE0481G, F1AE0481GA, F1AE0481H, F1AE0481HA, F1AE0481N, F1AE0481R, F1AE0481RA, F1AE0481UA, F1AE0481VA, F1CE0481A, F1CE0481B, F1CE0481D, F1CE0481D/SOFIM, F1CE0481F, F1CE0481H, F1CE3481D, F1CE3481D/SOFIM, F1CE3481DM, F1CE3481DM/SOFIM, F1CE3481E, F1CE3481E/SOFIM, F1CE3481M, F1CE3481N, F1CE 3481N/SOFIM, F30DTE)

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## KL-1682-24 KB

### Locking Tool Set

**Applicable to Fiat, Opel/Vauxhall, Citroën, Peugeot, Iveco and Renault 2.5 and 2.8 litre Diesel engines as found in: Fiat Ducato; Opel/Vauxhall Movano; Renault Master, Mascott; Peugeot Boxer II, Citroën Relay, Jumper; Iveco Daily.**

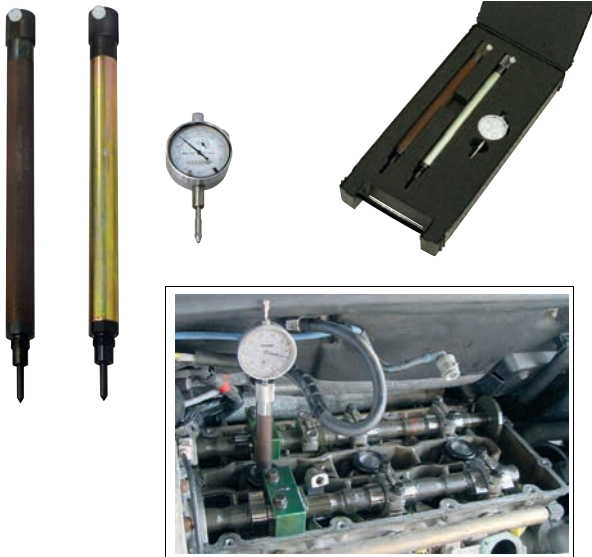
Designed for the locking/positioning of the crankshaft, injection pump shaft and flywheel. The kit also contains a tool to lock the timing belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.

**Scope of Delivery: KL-1682-24 KB Locking Tool Set**

Part No.	Description	Qty
KL-1682-2601	Locking Tool for Flywheel	1
KL-1380-2213 A	Locking Pin, Ø 4.9mm	1
KL-1682-2401	Spacer Sleeve for Timing Belt	1
KL-1280-203 A	Locking Pin, Ø 4.9mm	1
KL-1280-204 A	Locking Pin, Ø 4.9/3.9mm	1
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-0680-2201 A	Locking Pin, Ø 11mm	1
KL-1682-2490	Plastic Storage Case	1



(Engine codes: 8140.43, 8140.43B, 8140.43C, 8140.43N, 8140.43R, 8140.43S, 8140.63, S8U, S8U 770, S8U 772, S9W, S9W 206, S9W 208, S9W 212, S9W 700, S9W 702)



## KL-1681-11 K

### TDC Position Tool Kit,

VW-Audi/Seat/Škoda/Alfa Romeo/Fiat/Porsche

Universally applicable to vehicles with either an M12x1.25 or M14x1.25 spark plug thread; such as VW Eos, Golf, Jetta, Passat, Polo, Scirocco, Sharan, Tiguan, Touran; Audi A1, A3; Seat Alhambra, Altea, Cordoba, Ibiza, Leon, Toledo; Škoda Fabia, Octavia, Roomster, Superb, Yeti; Alfa Romeo 147, 156, 166, GT, GTV, Spider; Fiat Doblo, Fiorino, Marea, Multipla, Palio, Panda, Punto, Qubo, Stilo; Lancia Lybra, Thesis. (Engine codes: 161.05, 182B6.000, 183A1.000, 185A8.000, 188A4.000, 192A2.000, 322.05, 324.05, 361.01, 362.01, 839A7.000, 841A.000, 841D.000, 841E.000, 841L.000, 932A.000, 932A2.000, 936A.000, 936A6.000, 937A1.000, AXU, BAG, BKG, BLF, BLG, BLN, BLP, BMY, BTS, BWK, CAVA, CAVB, CAVC, CAVD, CAVE, CAVF, CAVG, CAXA, CAXC, CDGA, CKMA, KFT, KFV)

This tool is necessary to determine the TDC position on No.1 cylinder.

#### Scope of Delivery: KL-1681-11 K TDC Position Tool Kit

Part No.	Description	Qty
KL-1681-111	Adaptor, M14x1.25, for TDC Positioning	1
KL-1681-112	Adaptor, M12x1.25, for TDC Positioning	1
KL-0128-0	Dial Gauge, Ø 40mm	1
KL-1681-1190	Plastic Storage Case	1

## KL-1682-752 K

### Locking Tool Set, Fiat

Applicable to Alfa Romeo, Fiat, Lancia and Chrysler 900 cm<sup>3</sup> petrol engines as found in: Fiat 500, Panda, Punto; Alfa Mito; Lancia Ypsilon, Chrysler Ypsilon. (Engine code: 312A200)

Designed for the locking/positioning of engine shafts such as camshaft and crankshaft, as well as for locking the timing chain tensioner. An indispensable tool set when replacing a timing chain or performing an engine repair.

#### Scope of Delivery: KL-1682-752 K Locking Tool Set, Fiat

Part No.	Description	Qty
KL-1682-7521	Locking Tool for Camshaft	1
KL-1682-7522	Locking Tool for Tensioner	1
KL-1682-7523	Locking Tool for Flywheel	1
KL-4990-2001	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1

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## KL-1682-10 KB

### Timing Belt Locking Tool Set,

Fiat 1.2 and 1.4 16 V

Applicable to Fiat and Lancia 1.2 16 V TwinCam petrol engines (Engine codes: 176B9.000, 182B2.000, 188A5.000 and 223A5.000), and Fiat, Alfa and Lancia 1.4 16V TwinCam petrol engines (Engine codes: 169A3.000, 192B2.000, 198A1.000, 198A4.000, 199A6.000, 199A8.000, 312A1.000, 312A3.000, 843A1.000 and 955A1.000) as found in Fiat New 500, Punto, Idea, Linea, Brava and Bravo.

This tool set is designed to determine the TDC position on No. 1 cylinder, to lock / position engine shafts such as camshafts and crankshaft, as well as to adjust the timing belt tensioner. It is required when replacing a timing belt or during an engine repair.

#### Scope of Delivery KL-1682-10 KB Timing Belt Locking Tool Set

Part No.	Description	Qty
KL-1682-101 A	TDC Position Tool (2 pieces)	1
KL-1682-102 A	Locking Tool for Camshaft (2 pieces)	1
KL-1682-103 A	Tensioner Adjustment Tool	1
KL-1682-104 A	Locking Tool for Crankshaft	1
KL-1682-105 A	Locking Tool for Camshaft	1
KL-1682-1090 B	Plastic Storage Case	1



## KL-1682-25 KA

### Locking Tool Set, Fiat 1.2, 1.4 8V

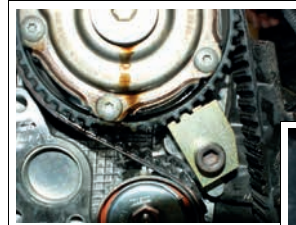
Applicable to Fiat/Lancia 1.2 (169A4.000, 199A4.000), 1.4 (350A1.000, 199A7.000) and Ford 1.2 (FP4) 8-valve petrol engines as found in Fiat New 500, Idea, Grande Punto, Linea, Doblo, Panda, Qubo; Lancia Musa, Ypsilon; Ford Ka.

This tool set is used for the locking/positioning of camshaft and crankshaft, as well as for adjusting the timing belt tensioner and aligning the camshaft sensor cap. Essential tools when changing a timing belt or performing an engine repair.

**Scope of Delivery:**

**KL-1682-25 KA Locking Tool Set, Fiat 1.2, 1.4 8V**

Part No.	Description	Qty
KL-1682-251 A	Setting Gauge for Camshaft Sensor Cap	1
KL-1682-252 A	Holding Tool for Camshaft Sprocket	1
KL-1682-253 A	Setting Gauge for Camshaft	1
KL-1682-103 A	Tensioner Adjustment Tool	1
KL-1682-104 A	Locking Tool for Crankshaft	1
KL-1682-2590 A	Storage Case with Insert	1



## KL-1682-753 K

### Locking Tool Set, Fiat

Applicable to Fiat and Lancia 1.2 litre petrol engines as found in: Fiat Palio, Panda, Punto, Strada; Lancia Ypsilon. (Engine code: 188A4.000)

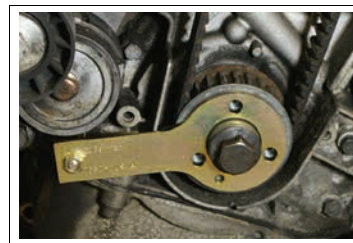
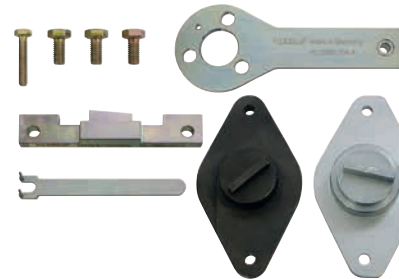
Designed for the locking/positioning of camshaft and crankshaft, as well as for adjusting the timing belt tensioner.

An indispensable tool set when replacing a timing belt or performing an engine repair.

**Scope of Delivery:**

**KL-1682-753 K Locking Tool Set, Fiat**

Part No.	Description	Qty
KL-1682-103 A	Tensioner Adjustment Tool	1
KL-1682-104 A	Locking Tool for Crankshaft	1
KL-1682-253 A	Setting Gauge for Camshaft	1
KL-1682-3511 A	Setting Gauge for Camshaft	1
KL-1682-3512 A	Setting Gauge for Camshaft	1
KL-4990-2001	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1



## KL-1682-11 KA

### Locking Tool Set, Fiat 1.4 12V

Applicable to Fiat 1.4 12V petrol engines (182 A3.000, 182 A5.000) as found in Fiat Brava, Bravo, Marea, Marea Weekend.

This tool set is used for locking/positioning engine shafts such as camshaft and crankshaft when replacing a timing belt or during an engine repair.

**Scope of Delivery:**

**KL-1682-11 KA Locking Tool Set, Fiat 1.4 12V**

Part No.	Description	Qty
KL-1682-311 A	Locking Tool for Camshaft	1
KL-1682-112 A	Locking Tool for Crankshaft	1
KL-1682-1190 A	Plastic Storage Case	1





## KL-1682-30 KB

### Locking Tool Set, Alfa/Fiat/Lancia

Applicable to Alfa Romeo 1.4, 1.6, 1.8, 2.0, 2.5, 3.0 and 3.2 litre, 4- and 6-cylinder petrol engines as found in: 145, 146, 147, 155, 156, 164, 166, GTA, GTV, Spider, Spider GT etc., and Fiat/Lancia 1.4, 1.6, 1.8, 2.0, 2.4-litre, 4- and 5-cylinder petrol engines as found in: Fiat Panda, Punto, Palio, Siena, Bravo, Brava, Stilo, Marea, Multipla, Barchetta, Coupé etc. Lancia Dedra, Delta, Kappa, Lybra etc.

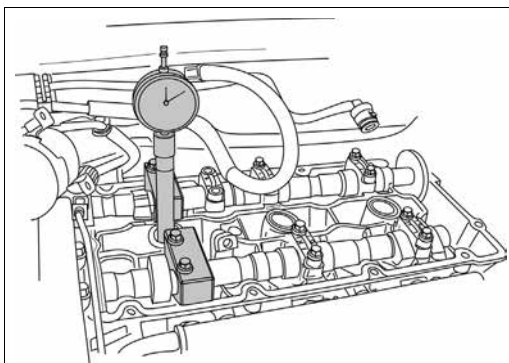
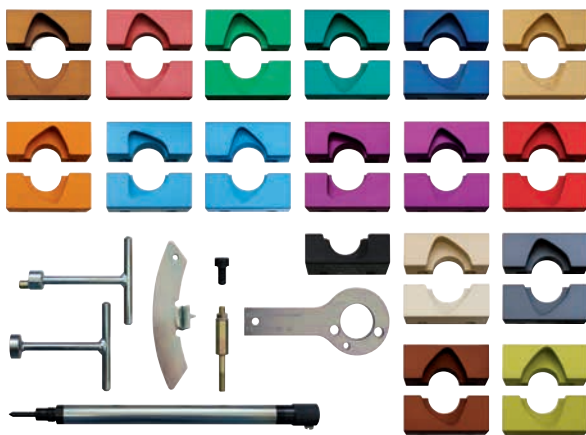
(Engine codes: 161.02, 162.01, 321.02, 321.03, 321.04, 322.01, 322.05, 323.01, 323.10, 324.01, 324.05, 335.03, 341.03, 342.01, 343.01, 361.01, 362.01, 363.01, 372.03, 671.06, 672.04, 676.01, 175A3.000, 178B3.000, 182A1.000, 182A2.000, 182A3.000, 182A4.000, 182A5.000, 182A6.000, 182A6.000, 182B3.000, 182B6.000, 182B7.000, 183A1.000, 183A6.000, 185A8.000, 188A4.000, 188A6.000, 192A2.000, 192A4.000, 839A4.000, 839A7.000, 840A2.000, 840A4.000, 841D.000, 841E.000, 932A.000, 932A2.000, 936A.000, 936A6.000, 937A1.000, 939B1.000, 940A1.000, KFT, KFV)

When performing repairs to cylinder heads or engines, or when replacing a timing belt, the **KL-1682-30 KB** will prove to be an indispensable tool set allowing you to determine the TDC position (power stroke) on No. 1 cylinder, lock/position the camshafts and correctly adjust the tensioner pulley.

#### Scope of Delivery:

#### KL-1682-30 KB Locking Tool Set Alfa, Fiat, Lancia

Part No.	Description	Applications:
KL-1682-301 A	Locking Tool Set for Camshaft, golden (2-piece set)	Alfa 1.4 and 1.6 4-cylinder 16V TS engines. (Engine code: AR321.01, AR335.03)
KL-1682-302 A	Locking Tool Set for Camshaft, light yellow (2-piece set)	Alfa 1.8 and 2.0 4-cylinder 16V TS engines. (Engine code: AR162.01, AR322.05, AR323.01, AR323.10, AR671.06, AR672.04)
KL-1682-303 A	Locking Tool Set for Camshaft, bronze-coloured (2-piece set)	Alfa 1.6 4-cylinder 16V TS engines. (Engine code: AR321.02, AR321.03, AR321.04, AR372.03, AR676.01)
KL-1682-304 A	Locking Tool Set for Camshaft, red (2-piece set)	Alfa 2.0 4-cylinder 16V JTS engines. (Engine code: 932A2.000, 937A1.000)
KL-1682-305 A	Locking Tool Set for Camshaft, purple (4-piece set)	Alfa 2.5 and 3.0 V6 engines with 24 valves. (Engine code: 161.02, AR324.01, AR343.01, AR361.01, AR362.01, AR342.01)
KL-1682-306 A	Locking Tool Set for Camshaft, light blue (4-piece set)	Alfa 3.2 V6 engines with 24 valves. (Engine code: 932A.000, 936A.000)
KL-1682-307 A	Locking Tool Set for Camshaft, orange (2-piece set)	Alfa 1.6 TS engines. (Engine code: 321.03, 321.04, 372.03)
KL-1682-311 A	Locking Tool for Camshaft, black (1-piece set)	Fiat/Lancia 1.4 4-cylinder 12V engines. (Engine code: 182A3.000)
KL-1682-312 A	Locking Tool Set for Camshaft, white (2-piece set)	Fiat/Lancia 1.8 4-cylinder 16V engines. (Engine code: 183A1.000)
KL-1682-313 A	Locking Tool Set for Camshaft, grey (2-piece set)	Fiat/Lancia 1.8 4-cylinder 16V engines. (Engine code: 182A2.000)
KL-1682-314 A	Locking Tool Set for Camshaft, dark blue (2-piece set)	Fiat/Lancia 1.8 4-cylinder 16V engines. (Engine code: 188A6.000, 192A4.000)
KL-1682-315 A	Locking Tool Set for Camshaft, dark green (2-piece set)	Fiat/Lancia 2.0 5-cylinder 20V engines. (Engine code: 175A3.000, 182A1.000)
KL-1682-316 A	Locking Tool Set for Camshaft, light green (2-piece set)	Fiat/Lancia 2.0 5-cylinder 20V engines. (Engine code: 175A3.000)
KL-1682-317 A	Locking Tool Set for Camshaft, light red (2-piece set)	Fiat/Lancia 2.0 5-cylinder 20V engines.
KL-1682-318 A	Locking Tool Set for Camshaft, brown (2-piece set)	Fiat/Lancia 2.4 5-cylinder 20V engines. (Engine code: 192A2.000)
KL-1681-111	Adaptor M14x1.25 for TDC Positioning	Fiat/Lancia 1.6 and 2.0 4- and 5-cylinder 16V/20V engines. (Engine code: 175A3.000, 182A1.000, 182A2.000, 183A1.000, 192A2.000, 932A2.000, 937A1.000)
KL-1682-131 A	Flywheel Holding Tool	Fiat/Lancia 1.8 4-cylinder 16V engines (Engine code: 182A2.000, 192A4.000) and Alfa 2.0 JTS engines (Engine code: 932A2.000, 937A1.000).
KL-1682-202 A	Locking Tool for Crankshafts	Fiat/Lancia 1.8 4-cylinder 16V engines. (Engine code: 188A6.000, 192A4.000)
KL-1682-213 A	Adjustment Tool for Tensioner Pulley	Alfa 1.6, 1.8 and 2.0 4-cylinder 16V engines (Engine code: AR162.01, AR321.03, AR321.04, AR322.01, AR322.05, AR323.01, AR323.10, AR335.03, AR372.03, AR671.06, AR672.04, AR676.01, 932A2.000, 937A1.000) and for Fiat/Lancia 1.8 4-cylinder 16V engines (Engine code: 182A2.000, 183A1.000, 188A6.000, 192A4.000).
KL-1682-214 A	Adjustment Tool for Tensioner Pulley (Balance Shafts)	Alfa 2.0 4-cylinder 16V engines. (Engine code: AR162.01, AR323.01, AR323.10, AR672.04, 932A2.000, 937A1.000)
KL-1682-3090 A	Plastic Storage Case	

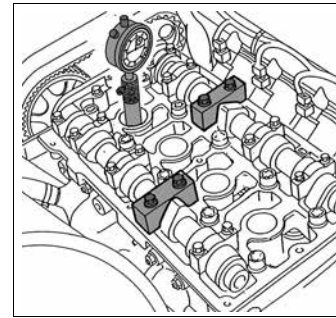


## KL-1682-332 K Locking Tool Set, Alfa

Applicable to Alfa Romeo 1.4, 1.6, 1.8 and 2.0 petrol engines as found in: Alfa 145, 146, 147, 155, 156, 166, GT, GTV, Spider.

(Engine codes: 162.01, 321.02, 321.03, 321.04, 322.01, 322.05, 323.01, 323.1, 335.03, 341.03, 363.01, 372.03, 671.06, 672.04, 676.01)

Designed for the locking/positioning of camshafts, crankshaft, and timing belt tensioner. The kit also contains a tool to determine the TDC position. An indispensable tool set when replacing a timing belt or performing an engine repair.



### Scope of Delivery:

#### KL-1682-332 K Locking Tool Set, Alfa

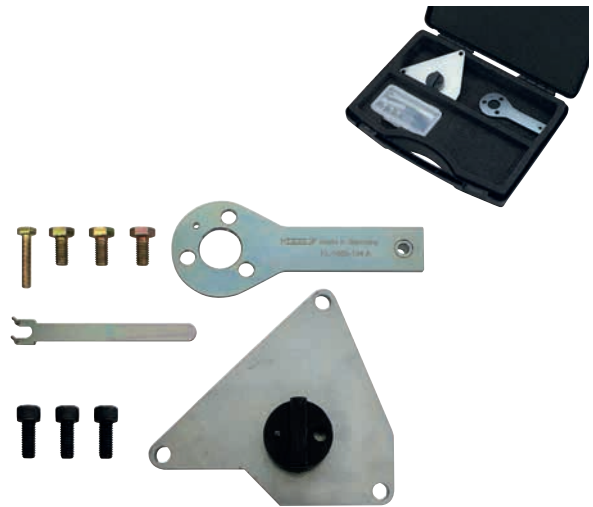
Part No.	Description	Qty
KL-1682-301 A	Locking Tool Set (golden) for Camshaft	1
KL-1682-302 A	Locking Tool Set (light yellow) for Camshaft	1
KL-1682-303 A	Locking Tool Set (bronze) for Camshaft	1
KL-1682-307 A	Locking Tool Set (orange) for Camshaft	1
KL-1682-213 A	Adjustment Tool for Tensioner Pulley	1
KL-1682-214 A	Adjustment Tool for Tensioner Pulley	1
KL-1681-111	Adaptor M14x1.25 for TDC Positioning	1
KL-1682-3090 A	Plastic Storage Case	1

## KL-1682-751 K Locking Tool Set, Fiat

Applicable to Alfa Romeo and Fiat 1.4 litre petrol engines as found in: Alfa Giulietta, Mito; Fiat Bravo, Punto.

(Engine codes: 198A7.000, 940A2.000, 955A2.000, 955A6.000, 955A7.000, 955A8.000)

Designed for the locking/positioning of camshaft and crankshaft, as well as for adjusting the timing belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.



### Scope of Delivery:

#### KL-1682-751 K Locking Tool Set, Fiat

Part No.	Description	Qty
KL-1682-7511	Locking Tool for Camshaft	1
KL-1682-103 A	Tensioner Adjustment Tool	1
KL-1682-104 A	Locking Tool for Crankshaft	1
KL-4990-2001	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1

## KL-1682-12 KA Locking Tool Set, Fiat

Applicable to Fiat, Lancia, Suzuki 1.6 litre petrol engines as found in Fiat Doblo, Mare, Multipla, Palio, Sedici, Stilo; Lancia Lybra; Suzuki Grand Vitara, Liana, Swift, SX4.

(Engine codes: 182B6.000, 192B3.000, M16A, M16A VVT, Z16XEP)

Designed for the locking/positioning of camshafts and crankshaft, as well as for adjusting the timing belt tensioner.

An indispensable tool set when replacing a timing belt or performing an engine repair.



### Scope of Delivery:

#### KL-1682-12 KA Locking Tool Set, Fiat

Part No.	Description	Qty
KL-1682-121 A	Tensioner Pulley Adjustment Tool	1
KL-1682-122 A	Flywheel Holding Tool	1
KL-1682-123 A	Setting Gauge for Camshaft	1
KL-4990-2002	Plastic Box	1
KL-4990-1103	Plastic Storage Case	1





## KL-1682-331 K Locking Tool Set, Alfa

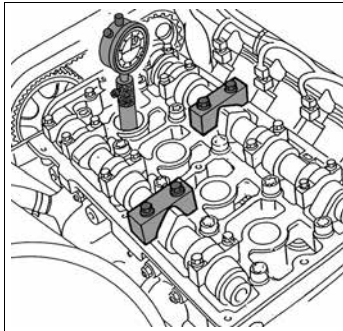
Applicable to Alfa Romeo, Lancia and Fiat 1.8 and 2.0 litre petrol engines as found in: Fiat Barchetta, Punto, Stilo; Alfa 156, GT, GTV, Spider; Lancia Lybra. (Engine codes: 183A6.000, 185A8.000, 188A6.000, 192A4.000, 839A4.000, 839A7.000, 932A2.000, 937A1.000)

Designed for the locking/positioning of camshafts, crankshaft, timing belt tensioner and flywheel. Kit also contains a tool to determine the TDC position. An indispensable tool set when replacing a timing belt or performing an engine repair.

### Scope of Delivery:

#### KL-1682-331 K Locking Tool Set, Alfa

Part No.	Description	Qty
KL-1682-131 A	Flywheel Holding Tool	1
KL-1682-202 A	Locking Tool for Crankshaft	1
KL-1682-213 A	Adjustment Tool for Tensioner Pulley	1
KL-1682-214 A	Adjustment Tool for Tensioner Pulley	1
KL-1682-304 A	Locking Tool Set (red) for Camshaft	1
KL-1682-314 A	Locking Tool Set (dark blue) for Camshaft]	1
KL-1682-315 A	Locking Tool Set (dark green) for Camshaft	1
KL-1681-111	Adaptor M14x1.25 for TDC Positioning	1
KL-1682-3090	Plastic Storage Case	1



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## KL-1682-23 KA Locking Tool Set, Alfa

Applicable to Alfa Romeo 2.5, 3.0 and 3.2 litre petrol engines as found in: Alfa Romeo 147, 156, 166, GT, GTV, Spider. (Engine codes: 161.02, 161.05, 324.01, 324.05, 342.01, 343.01, 361.01, 362.01, 932A.000, 936A.000, 936A6.000)

Designed for the locking/positioning of camshafts as well as for adjusting the timing belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.

### Scope of Delivery:

#### KL-1682-23 KA Locking Tool Set, Alfa

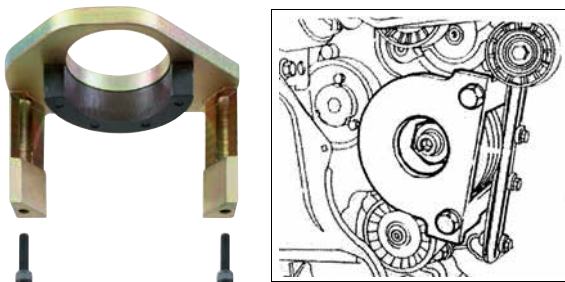
Part No.	Description	Qty
KL-1682-305 A	Locking Tool Set for Camshaft (purple)	1
KL-1682-306 A	Locking Tool Set for Camshaft (light blue)	1
KL-1682-222 A	Tensioning Tool	1
KL-4990-2002	Plastic Storage Box	1
KL-4990-1103	Plastic Storage Case	1



## KL-1682-235 Counter-Holding Tool for Crankshaft

Suitable for use on Alfa Romeo 3.2 V6 24V TwinCam petrol engines as found in 147, 156, 166, Spider, GT, GTV. (Engine codes: 932A.000 and 936A.000)

This tool is designed to counter-hold the crankshaft (crankshaft pulley) while loosening/tightening the crankshaft central screw. It is required when replacing a timing belt and for engine repairs.



## KL-0680-220 B

### Set of Locking Pins,

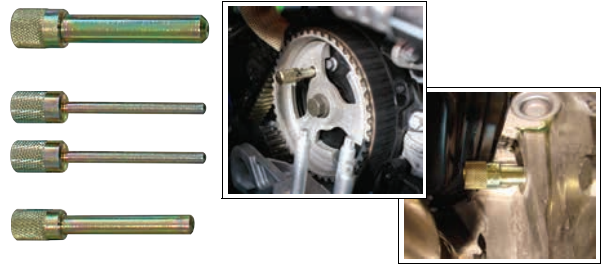
Citroën/Mazda/Peugeot/Suzuki/Toyota/Volvo

**Applicable to Citroën 1.4, 1.4 Hdi, 1.6 Hdi, 2.0; Fiat 1.6 JTD; Ford 1.4 TDCi, 1.6 TDCi; Mazda 1.4 TDCi, 1.6 D, 1.6 MZ-CD; Peugeot 1.4 Hdi, 1.6 Hdi; Suzuki 1.4 DDS; Toyota 1.0 VVT, 1.4 Di, 1.4 HDI; Volvo 1.6 D Diesel engines.**

These pins are used for the locking/positioning of engine shafts such as camshaft, injection pump shaft and crankshaft when replacing a timing belt or during an engine repair.

**Scope of Delivery: KL-0680-220 B Set of Locking Pins**

Part No.	Description	Qty
KL-0680-2201 A	Locking Pin, Ø 11mm	1
KL-0680-2202 A	Locking Pin, Ø 4.5mm	2
KL-0680-2203 A	Locking Pin, Ø 7.5mm	1



(Engine codes: 8HP, 8HR, 8HS, 8HT, 8HV, 8HW, 8HX, 8HY, 8HZ, 9HF, 9HH, 9HJ, 9HL, 9HM, 9HN, 9HP, 9HR, 9HS, 9HT, 9HU, 9HV, 9HW, 9HX, 9HY, 9HZ, D4162T, D4164T, DV4C, DV4TD, DV4TED, DV4TED4, DV6, DV6C, DV6ATED4, DV6AUTED4, DV6BTED4, DV6BUTED4, DV6D, DV6DTEd, DV6DU, DV6ETED, DV6TED4, DV6TED4B, DV6TED4BU, DV6UC, DV6UTED4, F6J4, F6JA, F6JB, F6JC, F6JD, G8DA, G8DB, G8DD, GPDA, HHDA, HHDB, HHJA, HHJB, HHJC, HHJD, HHJE, HHJF, MZ-CD 1.6 (Y6), T1BA/B/C, TZJA, Y6)

## KL-1381-30

### Tensioner Tool with Retaining Pin

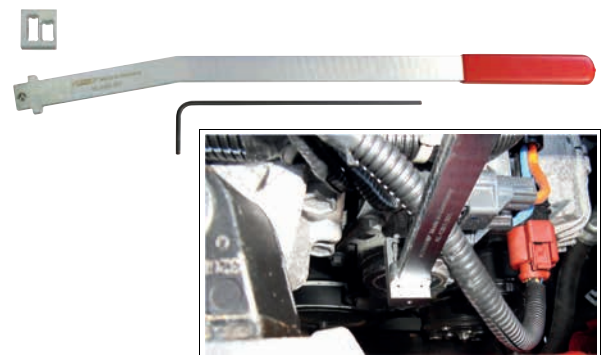
**Applicable to PSA (Citroën, Peugeot), Fiat and Ford, 1.4 and 1.6 litre Diesel engines as found in: Citroën Berlingo/Berlingo First I/II, C1, C2, C3 I/II/First/Classic, C3 III, C3 Picasso, C3 Pluriel, C4 II, C4 Picasso/Grand Picasso, C5 III, DS3, Berlingo III, DS4, DS3, DS4, Xsara II, Xsara Picasso and Peugeot Partner III, 206, 207, 207 CC, 308, 308 CC, 508, 3008, 5008. (Engine codes: DV4, DV6)**

Facilitates the tensioning and locking of V-ribbed belt tensioners.

This tool allows for the removal/installation of the V-ribbed belt in situ on the vehicle even in very limited space conditions.

**Scope of Delivery: KL-1381-30 Tensioner Tool with Retaining Pin**

Part No.	Description	Qty
KL-1381-3021	Retaining Pin (angled), Ø 4.2mm	1
KL-1383-301	Tension Lever with Base Body	1



**Technical Data:**

Length of tension lever:	465mm
Ø of retaining pin:	4.2mm

## KL-0182-17 A

### Flywheel Locking Pin

**Suitable for use on Citroën, Peugeot (TUD5) Diesel engines as found in Citroën AX, Saxo, Xsara; Peugeot 106; Nissan Micra and Rover 115.**

Tool for locking the flywheel.



## KL-0282-35 B

### Reaction Wrench Set

(470mm long, adjustable)

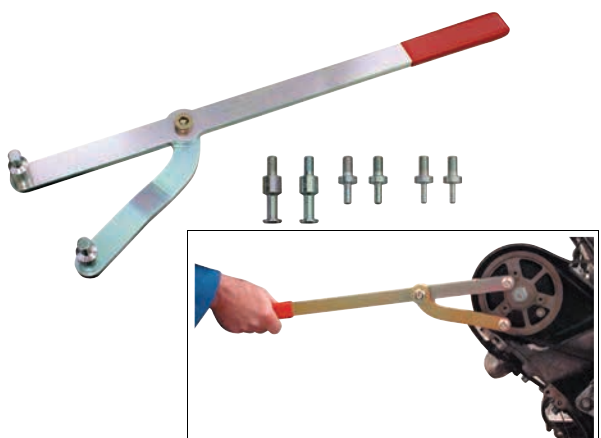
**Universally suitable for use on perforated timing belt sprockets with a hole Ø not smaller than 6.5mm as found in: VW-Audi, Seat, Škoda, Alfa, Fiat, Lancia, Dacia, MG, Nissan, Ford, Opel/Vauxhall, Peugeot, Renault, Citroën, Rover, Volvo, Suzuki, Isuzu, Japanese vehicles, etc.**

Designed to prevent timing belt sprockets on camshafts, injection pumps, etc. from rotating, for example, when loosening/tightening the central fastening bolt.

Thanks to the different interchangeable pins and the adjustable lever allowing for variable adjustments to hole diameters and pitches, this tool is nearly universally applicable.

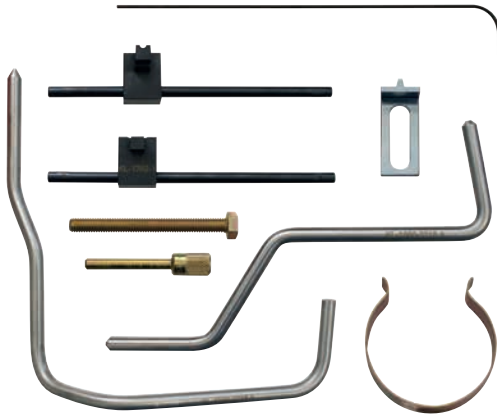
**Scope of Delivery: KL-0282-35 B Reaction Wrench Set (470mm long, adjustable)**

Part No.	Description	Qty
KL-0282-35	Reaction Wrench (adjustable)	1
KL-0282-311	Set of Pins, Ø 18mm	1
KL-0282-312	Set of Pins, Ø 7.5mm	1
KL-0282-313	Set of Pins, Ø 6mm	1



**Technical Data:**

Pitch between pins:	from 14-130mm
Pin Ø:	6mm, 7.5mm, 12mm, 18mm
Pin height:	25mm/42mm
Overall tool length:	470mm



## KL-1380-27 B

### Locking Tool Set, PSA

**Applicable to PSA (Citroën, Peugeot) 1.9 litre Diesel engines as found in: Peugeot 206, Partner, Expert; Citroën Berlingo, C15, Dispatch, Jumpy, Xsara; Fiat Scudo. (Engine codes: DW8, DW8/L/W3, DW8/L3, DW8B, DW8B/L4, WJY, WJZ)**

A very useful tool set designed for the locking/positioning of engine shafts such as camshaft, crankshaft, injection pump shaft, as well as for adjusting the timing belt tensioner when replacing a timing belt or performing an engine repair.

**Scope of Delivery: KL-1380-27 B Locking Tool Set, PSA**

Part No.	Description	Qty
KL-1380-2602 A	Locking Tool for Crankshaft	1
KL-1382-1	Adjustment Tool for Timing Belt Tensioner	1
KL-1382-2	Adjustment Tool for Timing Belt Tensioner	1
KL-1380-2215 A	Locking Pin (angled)	1
KL-1380-2216 A	Locking Pin (angled)	1
KL-1380-231 A	Locking Tool for Flywheel	1
KL-1380-232 A	Hex Screw, M8x80mm	1
KL-1380-237 A	Retaining Clip for Timing Belt	1
KL-1380-2211 A	Locking Pin, Ø 6mm	1



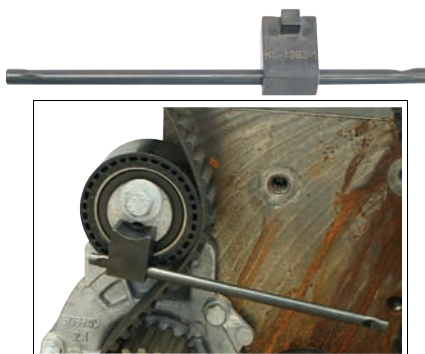
(Engine codes: 4HW, 4HY, DW8B/L4, DW10ATED, DW10ATED4, DW10ATED4/L4, DW10BTED, DW10BTED4, DW10BTED/L3, DW10CTED4, DW10JATED4, DW10TD, DW10UTD, DW10UTED4, DW12ATED4/L4, DW12UTED, H25A, H27A, J20A, J24B, K10B, K12B, M13A, M13A VVT, M15A, M15A VVT, M16A, M16A VVT, RHE, RHF, RHG, RHH, RHJ, RHK, RHL, RHM, RHR, RHS, RHT, RHV, RHW, RHX, RHY, RHZ, WJY)

## KL-1380-234 A

### Puller for Crankshaft Pulley

**Applicable to Citroën, Peugeot, Suzuki, Nissan and Subaru vehicles fitted with 1.0, 1.2, 1.3, 1.5, 1.6, 1.9, 2.0, 2.2, 2.4, 2.5 or 2.7 litre engines such as Citroën Berlingo, C4, C5, C8, Dispatch, Jumper, Jumpy, Relay, Xsara; Peugeot 206, 307, 406, 407, 607, 807, Boxer, Expert, Partner; Suzuki Alto, Grand Vitara, Ignis, Jimny, Kizashi, Liana, Splash, Swift, SX4, Wagon R+; Nissan Pixo; Subaru Justy G3X.**

For example, included in tool set **KL-1380-26 KC**.



## KL-1382-1

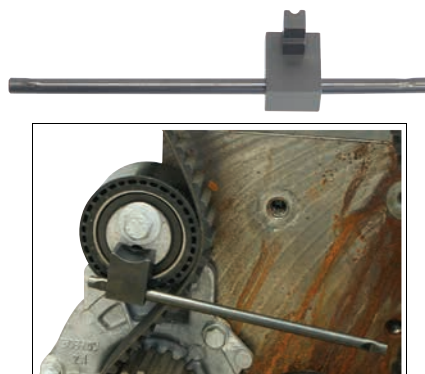
### Adjustment Tool for Timing Belt Tensioner, Peugeot/Toyota

**Suitable for use on Peugeot and Toyota engines: 1.9 HDI, DW8; 2.0 HDI, DW10; 2.2 HDI, DW12. (Engine codes: 4HW, 4HX, 4HY, 4HZ, RHM, RHS, RHT, RHV, RHW, RHX, RHY, RHZ, WJY)**

Designed to tension the timing belt.

**Technical Data:**

Square:	7mm
Length:	157mm



## KL-1382-2

### Adjustment Tool for Timing Belt Tensioner, Peugeot

**Suitable for use on Peugeot 206 Diesel engines 1.9 HDI, DW8 etc. as found in Citroën Berlingo, C15, Dispatch, Jumpy, Xsara; Peugeot 206, Expert, Partner. (Engines codes: WJY, WJZ)**

Designed to tension the timing belt.

**Technical Data:**

Square:	8mm
Length:	157mm

## KL-1380-26 KC

### Locking Tool Set, PSA 1.4, 1.6, 2.0, 2.2 HDI

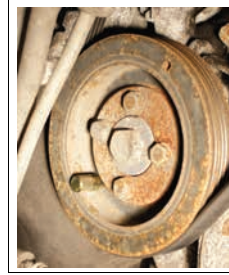
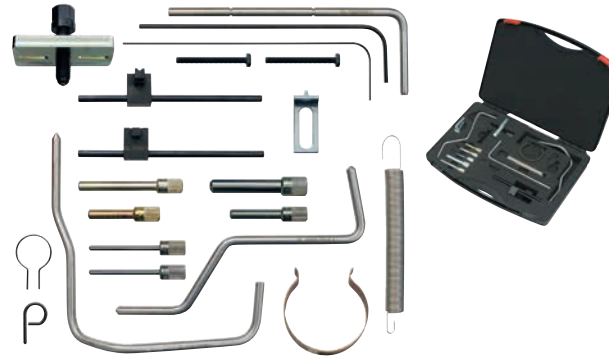
Applicable to PSA Citroën / Peugeot, Lancia, Ford, Volvo and Fiat 1.4, 1.6, 2.0 and 2.2 HDI Diesel engines, as found in: Peugeot Boxer II, Expert I/II, Expert III, Partner/ Partner Origin/Ranch I/II, RCZ, Boxer II, 206+, Bipper, Partner III, Expert III, Partner III, Partner/Partner Origin/Ranch I/II, 107, 206, 206 CC, 207, 207 CC, 307, 307 CC, 308, 308 CC, 406, 406 Coupe, 407, 508, 607, 807, 1007, 3008, 4007, 5008; Citroën Berlingo III, Berlingo/Berlingo First I/II, C1, C2, C3 I/II/First/Classic, C3 III, C3 Picasso, C3 Pluriel, C4, C4 II, C4 Picasso/Grand Picasso, C5, C5 II, C5 III, C6, C8, C-Crosser, Dispatch/Jumpy III, DS3, DS4, Nemo, Relay/Jumper II, Xsara II, Xsara Picasso; Fiat Ducato, Scudo, Ulysse; Lancia Phedra; Ford Scudo, C-MAX, Fiesta, Focus, Focus C-MAX, Fusion, Grand C-MAX, Mondeo; Mazda 2, 3, 5 and Volvo C30, S40, S60, S80, V50, V70.

For locking/positioning the camshaft, crankshaft, injection pump shaft and flywheel. The kit also contains tools for adjusting the timing belt tensioner and for holding the belt in position.

An indispensable tool set when replacing a timing belt or performing an engine repair.

#### Scope of Delivery: KL-1380-26 KC Locking Tool Set, PSA 1.4, 1.6, 2.0, 2.2 HDI

Part No.	Description	Qty
KL-1380-2215 A	Locking Pin (angled)	1
KL-1380-2216 A	Locking Pin (angled)	1
KL-1380-2219 A	Locking Pin, Ø 7.9mm	1
KL-1380-2220 A	Locking Pin, Ø 7.9mm	1
KL-1380-2228 A	Retaining Pin for Tensioner Pulley	1
KL-1380-231 A	Locking Tool for Flywheel	1
KL-1380-233 A	Locking Pin (angled), Ø 7.7mm	1
KL-1380-234 A	Puller for Crankshaft Pulley	1
KL-1380-237 A	Retaining Clip for Timing Belt	1
KL-1380-2601 A	Centring Tool for Crankshaft Sprocket	1
KL-1380-2602 A	Locking Tool for Crankshaft, Ø 2mm	1
KL-1380-2603	Locking Pin (angled), Ø 4mm	1
KL-1382-1	Adjustment Tool for Timing Belt Tensioner	1
KL-1382-2	Adjustment Tool for Timing Belt Tensioner	1
KL-0680-2201 A	Locking Pin, Ø 11mm	1
KL-0680-2202 A	Locking Pin, Ø 4.5mm	2
KL-0680-2203 A	Locking Pin, Ø 8mm	1
KL-1380-2690 A	Plastic Storage Case	1



(Engine codes: 4HK, 4HL, 4HN, 4HP, 4HR, 4HS, 4HT, 4HW, 4HX, 4HY, 4HZ, 8HP, 8HR, 8HS, 8HT, 8HV, 8HW, 8HX, 8HZ, 9HF, 9HH, 9HJ, 9HL, 9HM, 9HN, 9HP, 9HR, 9HS, 9HT, 9HU, 9HV, 9HW, 9HX, 9HY, 9HZ, AHY, AHZ, D4162T, D4162T DRIVE, D4164T, D4164T DRIVE, DV4C, DV4TD, DV4TED, DV4TED4, DV6ATED4, DV6AUTED4, DV6BTED4, DV6BUTED4, DV6C, DV6D, DV6DTEd, DV6DU, DV6ETED, DV6TED4, DV6TED4B, DV6TED4BU, DV6UC, DV6UTED4, DW10ATED, DW10ATED/L3, DW10ATED4, DW10ATED4/L4, DW10ATED4/L44H, DW10BTED, DW10BTED/L3, DW10BTED4, DW10C, DW10CTED4, DW10CTED4, DW10JATED4, DW10UTD, DW10UTED4, DW12ATED, DW12ATED4/L4, DW12BTED4, DW12CTED4, DW12MTED4, DW12ATED4, DW12ATED4/L4, DW12UTED, F6JA, F6JB, F6JC, F6JD, G8DA, G8DB, G8DD, GPDA, HHDA, HHDB, HHJA, HHJB, HHJC, HHJD, HHJE, HHJF, MZ-CD 1.6 Y6, H02, RHC, RHD, RHE, RHE, RHF, RHG, RHH, RHJ, RHK, RHL, RHM, RHR, RHS, RHT, RHV, RHW, RHX, RHY, RHH, RHZ, T1BA/B/C, TZJA, Y6)

## KL-1380-26 KB

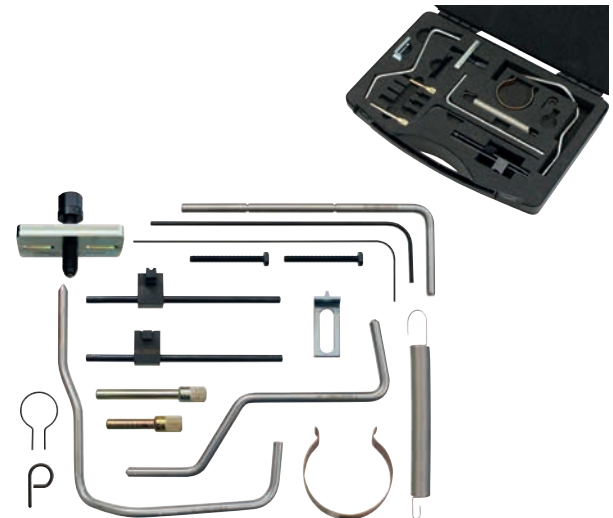
### Locking Tool Set, PSA

Suitable for the PSA (Citroën, Peugeot) and Fiat 2.0 and 2.2 Diesel engines as found in: Peugeot 206, 307, 308, 3008, 406, 407, 4007, 508, 5008, 607, 807, Boxer II, Expert, Partner, RCZ; Citroën Berlingo, C4, C5, C6, C8, C-Crosser, Dispatch, DS4, Jumper, Jumpy, Relay, Xsara; Fiat Ducato, Scudo, Ulysse; Lancia Phedra.

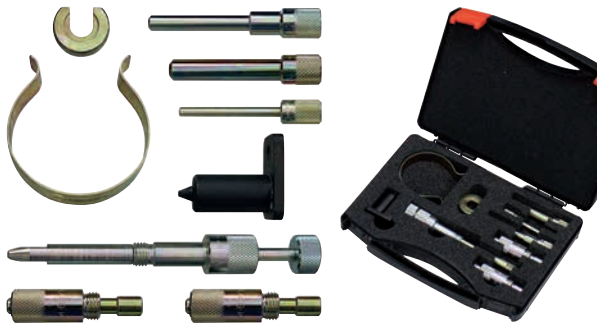
Very useful tool set for locking/positioning engine shafts such as camshaft, crankshaft, injection pump shaft, as well as for adjusting the timing belt tensioner when replacing a timing belt or performing an engine repair.

#### Scope of Delivery: KL-1380-26 KB Locking Tool Set, PSA

Part No.	Description	Qty
KL-1380-2219 A	Locking Pin, Ø 7.9mm	1
KL-1380-2215 A	Locking Pin (angled)	1
KL-1380-2216 A	Locking Pin (angled)	1
KL-1380-2220 A	Locking Pin, Ø 7.9mm	1
KL-1380-2228 A	Retaining Pin for Tensioner Pulley	1
KL-1380-231 A	Locking Tool for Flywheel	1
KL-1380-233 A	Locking Pin (angled), Ø 7.7mm	1
KL-1380-234 A	Puller for Crankshaft Pulley	1
KL-1380-237 A	Retaining Clip for Timing Belt	1
KL-1380-2601 A	Centring Tool for Crankshaft Sprocket	1
KL-1380-2602 A	Locking Tool for Crankshaft	1
KL-1380-2603	Locking Pin (angled), Ø 4mm	1
KL-1382-1	Adjustment Tool for Timing Belt Tensioner	1
KL-1382-2	Adjustment Tool for Timing Belt Tensioner	1
KL-1380-2690 A	Plastic Storage Case	1



(Engine codes: 4HK, 4HL, 4HN, 4HP, 4HR, 4HS, 4HT, 4HW, 4HX, 4HY, 4HZ, AHY, AHZ, DW10ATED, DW10ATED4, DW10ATED4/L4, DW10BTED, DW10BTED4, DW10BTED4/L3, DW10C, DW10CTED4, DW10JATED4, DW10TD, DW10UTD, DW10UTED4, DW12ATED, DW12ATED4/L4, DW12BTED4, DW12CTED4, DW12MTED4, DW12UTED, DW12TED4, DW12TED4/L4, RH02, RHC, RHD, RHE, RHE, RHF, RHG, RHH, RHJ, RHK, RHL, RHM, RHR, RHS, RHT, RHV, RHW, RHX, RHY, RHZ)



(Engine codes: 8140.43B, 8140.43C, 8140.43N, 8140.43R, 8140.43S, 8140.63, F1AE0481A, F1AE0481B, F1AE0481C, F1AE0481D, F1AE0481F, F1AE0481FA, F1AE0481G, F1AE0481GA, F1AE0481H, F1AE0481HA, F1AE0481N, F1AE0481R, F1AE0481RA, F1AE0481UA, F1AE0481VA, F1CE0481A, F1CE0481B, F1CE0481D, F1CE0481D/SOFIM, F1CE0481F, F1CE0481H, F1CE3481D, F1CE3481D/SOFIM, F1CE3481DM, F1CE3481DM/SOFIM, F1CE3481E, F1CE3481E/SOFIM, F1CE3481M, F1CE3481N, F1CE3481N/SOFIM, F30DTE)

## KL-1682-26 KA

### Locking Tool Set, 2.3, 2.8 and 3.0 JTD

**Applicable to Fiat, Citroën, Peugeot and Iveco 2.3, 2.8 and 3.0 litre Diesel engines as found in: Fiat Ducato; Peugeot Boxer; Citroën Relay, Jumper; Iveco Daily.**

Designed for the locking/positioning of the injection pump shaft, camshafts and crankshaft. The kit also includes tools to lock the timing belt tensioner and to fix the timing belt during installation.

An indispensable tool set when replacing a timing belt or performing an engine repair.

**Scope of Delivery: KL-1682-26 KA Locking Tool Set, 2.3, 2.8 and 3.0 JTD**

Part No.	Description	Qty
KL-0680-2201 A	Locking Pin, Ø 11mm	1
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1682-2601	Locking Tool for Flywheel	1
KL-1380-2213 A	Locking Pin, Ø 4.9mm	1
KL-1682-2401	Spacer Sleeve for Timing Belt	1
KL-1682-410 A	Locking Tool for Camshaft	1
KL-1682-411 A	Locking Tool for Crankshaft	1
KL-1380-237 A	Retaining Clip for Timing Belt	1
KL-1682-2690	Plastic Storage Case	1



(Engine codes: 8140.43, 8140.43B, 8140.43C, 8140.43N, 8140.43R, 8140.43S, 8140.63, S8U, S8U 770, S8U 772, S9W, S9W 206, S9W 208, S9W 212, S9W 700, S9W 702)

## KL-1682-24 KB

### Locking Tool Set

**Applicable to Fiat, Opel/Vauxhall, Citroën, Peugeot, Iveco and Renault 2.5 and 2.8 litre Diesel engines as found in: Fiat Ducato; Opel/Vauxhall Movano; Renault Master, Mascott; Peugeot Boxer II, Citroën Relay, Jumper; Iveco Daily.**

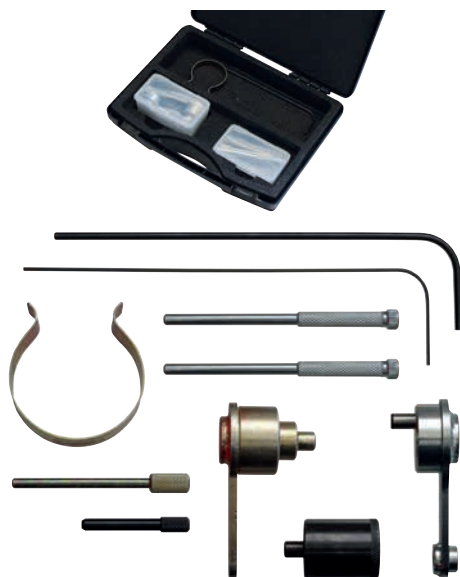
Designed for the locking/positioning of the crankshaft, injection pump shaft and flywheel. The kit also contains a tool to lock the timing belt tensioner.

An indispensable tool set when replacing a timing belt or performing an engine repair.

**Scope of Delivery: KL-1682-24 KB Locking Tool Set**

Part No.	Description	Qty
KL-1682-2601	Locking Tool for Flywheel	1
KL-1380-2213 A	Locking Pin, Ø 4.9mm	1
KL-1682-2401	Spacer Sleeve for Timing Belt	1
KL-1280-203 A	Locking Pin, Ø 4.9mm	1
KL-1280-204 A	Locking Pin, Ø 4.9/3.9mm	1
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-0680-2201 A	Locking Pin, Ø 11mm	1
KL-1682-2490	Plastic Storage Case	1

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(Engine codes: D20CTED4, DT17BTED4, DT17TED4, 276D, 276DT, TDV6, UHZ, X8Z)

## KL-1380-29 KB

### Locking Tool Set, PSA 2.7 and 3.0 HDI

**Applicable to PSA (Peugeot, Citroën 2.7 and 3.0, Land Rover, Range Rover and Jaguar 2.7 V6 TwinCam (DOHC) Diesel engines as found in: Land Rover Discovery 3, Range Rover Sport; Jaguar S-Type, XJ Series; Peugeot 407, 607; Citroën C5, C6.**

Designed for the locking/positioning of camshafts, crankshaft and coolant pump. The kit also contains a tool for retaining the timing belt on the crankshaft sprocket. An indispensable tool set when replacing a timing belt or performing an engine repair.

**Scope of Delivery: KL-1380-29 KB Locking Tool Set, PSA 2.7 and 3.0 HDI**

Part No.	Description	Qty
KL-1380-2901 B	Locking Pin for Camshafts	1
KL-1380-2902 B	Locking Pin for Camshafts	1
KL-1380-2903 B	Locking Pin for Coolant Pump	1
KL-1380-2904 B	Locking Tool for Flywheel	1
KL-1380-2905 B	Locking Tool for Flywheel	1
KL-1380-2906 B	Locking Tool for Flywheel	1
KL-1380-237 A	Retaining Clip for Timing Belt	1
KL-1380-2602 A	Locking Tool for Crankshaft	1
KL-1380-2603	Locking Pin (angled), Ø 4mm	1
KL-4999-2001	Plastic Storage Box, 53x107x18mm	1
KL-4999-2002	Plastic Storage Box, 53x107x40mm	1
KL-4999-1103	Plastic Storage Case	1

## KL-1380-101 KA

### Locking Tool Set, PSA, Renault

Universally applicable to the following 1.0, 1.1, 1.2, 1.4, 1.6, 1.7, 1.8, 1.9, 2.0, 2.2, 2.5 litre petrol engines as well as 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 2.5, 2.1, 2.2, 2.5, 2.8 D/TD/TDI Diesel engines from Citroën, Peugeot, Renault, Dacia, Fiat, FSO, LDV, Nissan, Mitsubishi, Opel/Vauxhall, Rover, Lancia. For example, fitted to: Peugeot Boxer I, 106, 205, 206, 207, 306, 307, 308, 309, 405, 605, 806, 1007, 206+, Bibber, Expert, J5, Partner; Citroën AX, Berlingo, BX, C15, C2, C3, Evasion, Jumper / Relay, Nemo, Saxo, Xantia, XM, Xsara, ZX; Renault 5, 19, 21, 25, Clio, Clio II, Espace, Espace II, Espace III / Grand Espace, Express / Rapid, Kangoo, Laguna, Laguna II, Master, Master II, Megane, Megane Scenic, Safrane, Scenic II, Senic, Trafic, Trafic II, Twingo; Dacia Dokker, Lodgy, Logan, Logan MCV, Sandero, Solenza; Fiat Ulysse, Ducato, Scudo; Suzuki Samurai, Grand Vitara, Vitara; Mitsubishi Carisma, Space Star; Opel/Vauxhall Vivaro, Movano; Nissan Kubistar, Primera; Rover 100 / Metro; Lancia Zeta; LDV Pilot.

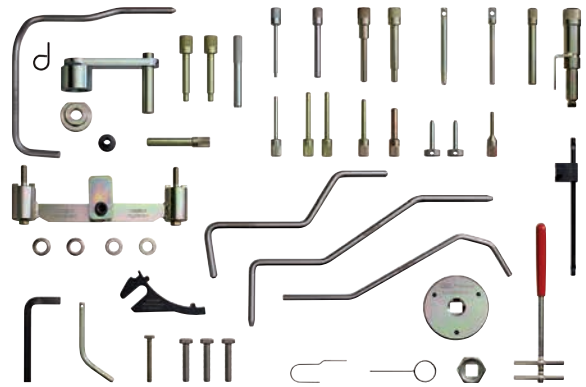
For locking the camshaft, crankshaft and injection pump shaft, as well as for positioning the timing belt tensioner.

An indispensable tool set when replacing a timing belt or during an engine repair.



#### Scope of Delivery: KL-1380-101 KA Locking Tool Set, PSA, Renault

Part No.	Description	Qty
KL-0129-2105 A	Adaptor, M10x1 to M8x1	1
KL-0180-3019	Retaining Pin, Ø 1.9mm	1
KL-1280-2010	Locking Tool for Injection Pump	1
KL-1280-202 A	Locking Pin, Ø 6.9mm	1
KL-1280-203 A	Locking Pin, Ø 4.9mm	1
KL-1280-204 A	Locking Pin, Ø 4.9/3.9mm	1
KL-1280-205 A	Hex Screw, M6x45mm	1
KL-1280-206 A	Adjustment Tool for Belt Tensioner, with 2 Pins	1
KL-1280-211 A	Adjustment Tool (3 Pins)	1
KL-1280-212 A	Special Socket, Size (waf) 27mm	1
KL-1280-221 A	Locking Tool for Camshafts	1
KL-1280-222 A	Locking Pin for Crankshaft	1
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1380-1011 A	Timing Belt Pre-Tensioning Tool	1
KL-1380-11	Locking Pin B, Ø 9.5mm	1
KL-1380-2211 A	Locking Pin, Ø 6mm	1
KL-1380-2212 A	Locking Pin, Ø 5.9mm	2
KL-1380-2213 A	Locking Pin, Ø 4.9mm	1
KL-1380-2215 A	Locking Pin for Flywheel, Ø 7.7mm, angled	1
KL-1380-2216 A	Locking Pin for Flywheel, Ø 7.9mm, angled	1
KL-1380-2217 A	Locking Pin, Ø 10mm	1
KL-1380-2218 A	Locking Pin, Ø 8.4/6.5 mm	2
KL-1380-2219 A	Locking Pin, Ø 7.9mm	1
KL-1380-2220 A	Locking Pin, Ø 7.9mm	1
KL-1380-2222 A	Locking Pin, Ø 9.9mm	1
KL-1380-2223 A	Locking Pin, Ø 10/8mm	1
KL-1380-2226 A	Retaining Pin for Tensioner Pulley, Ø 1.5mm	1
KL-1380-2228 A	Retaining Pin for Tensioner Pulley, Ø 3.0mm	1
KL-1380-2230 A	Adjustment Tool for Timing Belt Tensioner, 8mm, square	1
KL-1382-1	Adjustment Tool for Timing Belt Tensioner, Peugeot/Toyota	1
KL-1480-10	Locking Pin, Ø 6.8mm, angled	1
KL-1480-11	Locking Pin, Ø 6mm, angled	1
KL-1480-12	Locking Pin, Ø 6mm, short	2
KL-1480-13	Locking Pin, M8/Ø 6.7mm	1
KL-1480-15	Locking Pin, Ø 7.8mm, angled	1
KL-1480-18	Hex Screw, M8x40mm	3
KL-1380-1090 A	Plastic Storage Case	1



(Engine codes: D7F, DJ5, DJ5T, DJ5TED, DKATE, E5F, E6J, E7F, E7J, F1N, F2N, F2R, F3N, F3P, F3R, F7P, F7R, F8M, F8Q, F9Q, G8T, J5T, J6R, J7R, J7T, J8S, K7M, N7Q, N7U, S8U, S9U, S9W, TU1, TU3, TU5J4, TU5JP, TU9, TUD3, TUD5, XU10J2, XU10J4, XU5, XU7, XU7JP4, XU9, XU9J4, XUD11, XUD7, XUD9)

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## KL-1380-231 A

### Locking Tool for Flywheel, Citroën/Peugeot

Applicable to Citroën/Peugeot Diesel and petrol engines; as well as for Porsche 911 (991). 1.9 DW8; 2.0 HDI, DW10; 2.2 HDI DW12; Volvo 2.0 D4204T.

Designed to lock the flywheel.



(Engine codes: 4HK, 4HL, 4HN, 4HP, 4HR, 4HS, 4HT, 4HW, 4HX, 4HY, 4HZ, AHY, AHZ, D4204T, DW10ATED, DW10ATED4, DW10ATED/L3, DW10ATED4/L4, DW10BTED, DW10BTED/L3, DW10BTED4, DW10C, DW10CTED4, DW10JATED4, DW10UTED4, DW10UTD, DW10TD, DW12ATED, DW12ATED4/L4, DW12BTED4, DW12CTED4, DW12TED4, DW12UTED, DW8, DW8/L/W3, DW8/L3, DW8B, DW8B/L4, DW8B/L4, LFY, RFS, RFV, RHC, RHD, RHE, RHF, RHG, RHH, RHJ, RHK, RHL, RHM, RHR, RHS, RHT, RHV, RHW, RHX, RHY, RHZ, WJY, WJZ, XU10J4R/L3, XU10J4RS/L3, XU7JP4/L3)



## KL-1380-22 KA

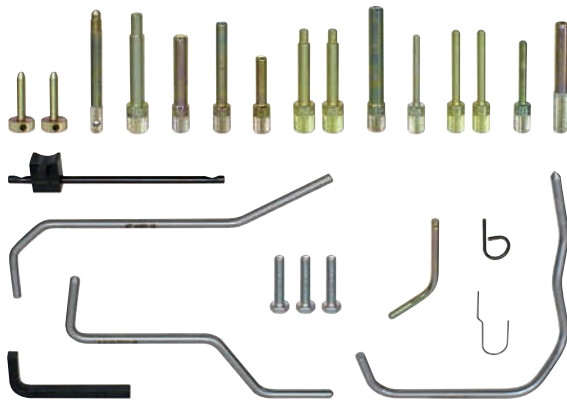
### Locking Tool Set, Citroën/Peugeot

**Applicable to PSA (Citroën, Peugeot), Fiat, Nissan, Rover and TATA 1.4, 1.5, 1.7, 1.8, 1.9, 2.1, 2.2 and 2.5 litre Diesel engines as well as for the 1.0, 1.1, 1.4, 1.6, 1.8, 1.9 and 2.0 litre PSA petrol engines as installed in Citroën AX, Berlingo, BX, C15, Dispatch, Evasion, Jumper, Jumpy, Relay, Saxo, Synergie, Visa, Xanita, XM, Xsara, ZX; Peugeot 106, 205, 206, 305, 306, 307, 309, 405, 406, 605, 806, Boxer, Expert, Partner, Talbot Express; Fiat Ducato, Scudo, Ulysse; FSO Caro; LDV 200, Pilot; Nissan Micra; Rover Metro; TATA Loadbeta etc.**

This tool set is designed for the locking/positioning of engine shafts such as camshaft, crankshaft, injection pump shaft, balancer shaft as well as of the timing belt tensioner. It also includes a tool to adjust the timing belt tensioner. Indispensable tool kit when replacing a timing belt or performing an engine repair.

#### Scope of Delivery: KL-1380-22 KA Locking Tool Set, Citroën/ Peugeot

Part No.	Description	Qty
KL-1380-11	Locking Pin for Injection Pump, Ø 9.5mm	1
KL-1380-2211 A	Locking Pin for Injection Pump, Ø 6.0mm	1
KL-1380-2212 A	Locking Pin for Balancer Shaft, Ø 5.9mm	2
KL-1380-2213 A	Locking Pin for Injection Pump, Ø 4.9mm	1
KL-1480-13	Locking Pin for camshaft, M8, Ø 6.7mm	1
KL-1380-2215 A	Locking Pin for flywheel (angled), Ø 7.7mm	1
KL-1380-2216 A	Locking Pin for Flywheel (angled), Ø 7.9mm	1
KL-1380-2217 A	Locking Pin for Cankshaft/Camshaft, Ø 10mm	1
KL-1380-2218 A	Locking Pin for Camshaft, Ø 8.4/6.5mm	2
KL-1380-2219 A	Locking Pin for Camshaft, Ø 7.9mm	2
KL-1380-2220 A	Locking Pin, Ø 7.9mm	1
KL-1480-12	Locking Pin for Camshaft, Ø 6.0mm	2
KL-1380-2222 A	Locking Pin, Ø 9.9mm	1
KL-1380-2223 A	Locking Pin for Crankshaft, Ø 10/8mm	1
KL-1480-11	Locking Pin for Flywheel (angled), Ø 6.0mm	1
KL-1480-18	Hex Screw, M8x40mm	3
KL-1380-2226 A	Retaining Pin for Tensioner Pulley, Ø 1.5mm	1
KL-1480-10	Locking Pin for Auxiliary Belt (angled), Ø 6.8mm	1
KL-1380-2228 A	Retaining Pin for Tensioner Pulley, Ø 3.0mm	1
KL-1382-1	Adjustment Tool for Timing Belt Tensioner, 7mm, square	1
KL-1380-2230 A	Adjustment Tool for Timing Belt Tensioner, 8mm, square	1
KL-1380-2290 A	Plastic Storage Case	1



(Engine codes Diesel: DJ5, DKATE, TUD, VJZ, XUD; Petrol: LFW, RGX, RFU, RFW, TU, XU)

6



## KL-1380-751 K

### Locking Tool Set, PSA

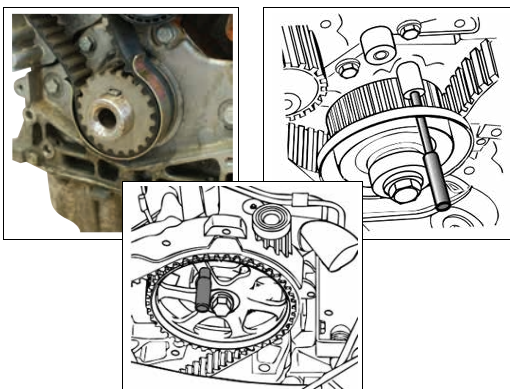
**Applicable to PSA (Citroën, Peugeot) and Fiat 1.0, 1.1, 1.4 and 1.6 litre petrol engines as found in: Peugeot 106, 1007, 206, 207, 306, 307, 308, Bipper, Partner; Citroën Berlingo, C2, C3, C4, Nemo, Saxo, Xsara; Fiat Fiorino, Qubo.**

Designed for the locking/positioning of camshafts, crankshaft, timing belt- and auxiliary drive belt (V-ribbed belt) tensioners, and flywheel. The kit also includes a tool for retaining the timing belt on the crankshaft sprocket.

An indispensable tool set when replacing a timing belt or performing an engine repair.

#### Scope of Delivery: KL-1380-751 K Locking Tool Set, PSA

Part No.	Description	Qty
KL-1380-2603	Locking Pin (angled), Ø 4mm	1
KL-1380-2481	Locking Pin (angled), Ø 4.9mm	1
KL-0180-3030	Locking Pin, Ø 3mm	1
KL-0680-2202 A	Locking Pin, Ø 4.5mm	1
KL-1380-2217 A	Locking Pin, Ø 10mm	1
KL-1380-2219 A	Locking Pin, Ø 7.9mm	1
KL-1380-2220 A	Locking Pin, Ø 7.9mm	1
KL-1380-2222 A	Locking Pin, Ø 9.9mm	1
KL-1380-2228 A	Retaining Pin for Tensioner Pulley	1
KL-1380-2230 A	Adjustment Tool for Timing Belt Tensioner, 8mm	1
KL-1380-237 A	Retaining Clip for Timing Belt	1
KL-1380-2801 A	Locking Pin (angled)	1
KL-1381-3021	Locking Pin (angled), Ø 4.2mm	1
KL-1480-11	Locking Pin (angled), Ø 6mm	1
KL-1480-12	Locking Pin (short), Ø 6mm	1
KL-4990-2001	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1



(Engine codes: CDY, CDZ, HDZ, HFV, HFY, HFZ, KFR, KFS, KFT, KFU, KFV, NFT, NFW, NFX, NFZ, ET3J4, ET3JP4, TU1A, TU1JP, TU1JP/L4, TU1M+, TU3A, TU3JP, TU3JP/L4, TU3JP/IFL4, TU5J2, TU5J4, TU5J4/L3, TU5J4/L4, TU5JP, TU5JP/L3, TU5JP/L4, TU5JP4, TU5JP4B, TU5JP4S, TU5JP4/L3, TU5JP4/L4, TU9M, TU9M/L, TU9M/L3)

## KL-0580-83 KA

### Locking Tool Set, BMW 1.4 and 1.6 16V

Applicable to Mini 1.4 and 1.6 litre engines (engine codes: N12, N14, N16) and PSA engines (engine codes: EP3, EP3C, EP6, EP6C, EP6CDT, EP6DT, EP6DTE, EP6DTS) as installed in Mini Cooper (R55, R56), Mini Cooper S (R55, R56), Mini One (R56), Citroën C4, C4 Picasso and Peugeot 207, 308.

Designed to be used for locking/positioning camshafts and crankshaft as well as for adjusting the VANOS adjustment units. Kit also includes a tool to pre-tension the timing chain tensioner. An indispensable tool set when replacing a timing chain, removing and installing VANOS adjustment units or performing engine repairs.

**Scope of Delivery:**

**KL-0580-83 KA Locking Tool Set, BMW 1.4 and 1.6 16V**

Part No.	Description	Qty
KL-0580-831 A	Locking Pin for Flywheel	1
KL-0580-832 A	Locking Tool for Camshaft	1
KL-0580-833 A	Locking Tool for Camshaft	1
KL-0580-834 A	Locking Tool for Camshaft	1
KL-0580-8113 B	Pre-Tensioning Tool for Timing Chain	1
KL-0580-8390 A	Plastic Storage Case	1



## KL-1380-753 K

### Locking Tool Set, PSA

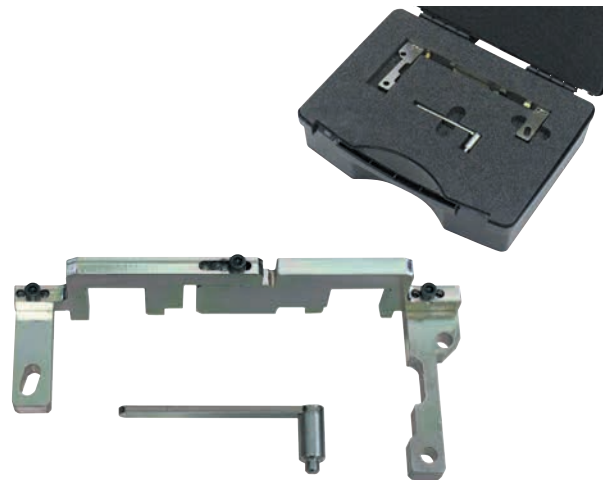
Applicable to Citroën, Peugeot 1.0 and 1.2 litre (3-cylinder) petrol engines as found in Citroën C1 II, C3 III, C4 Cactus, C4II, DS4, DS3, C-Elysee and Peugeot 108, 208, 301, 308, 308 II, 2008. (Engine codes: EB0 [ZMZ], EB2, EB2 [HMT], EB2 [HMW], EB2 [HMZ], EB2D [HMT], EB2DT, EB2DT [HNZ], EB2DTS [HNY], EB2F [HMZ], EBF2 [HMZ])

Designed for the locking of camshafts and crankshaft. An indispensable tool set when changing a timing belt or performing an engine repair.

**Scope of Delivery:**

**KL-1380-753 K Locking Tool Set, PSA**

Part No.	Description	Qty
KL-1380-7531	Locking Plate for Camshaft	1
KL-1380-7532	Locking Pin, Ø 14/7.7mm	1
KL-1380-7539	Plastic Storage Case	1



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## KL-1380-28 A

### Locking Tool Set, Peugeot/Citroën 1.4 16V

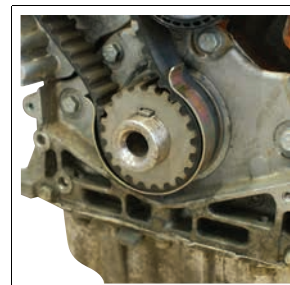
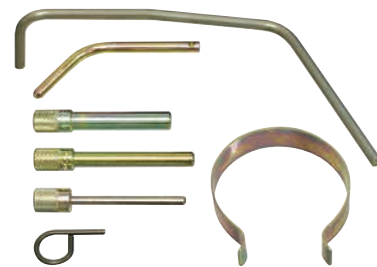
Applicable to Citroën and Peugeot 1.4 16V TwinCam petrol engines as found in Citroën C2, C3/Pluriel, C4; Peugeot 206, 207, 307, 1007 and Berlingo. (Engine codes: KFU, KFU, KFU)

This tool set is designed for the locking/positioning of camshafts, crankshaft and timing belt tensioner while replacing a timing belt or during an engine repair.

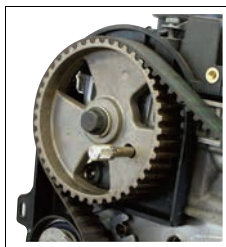
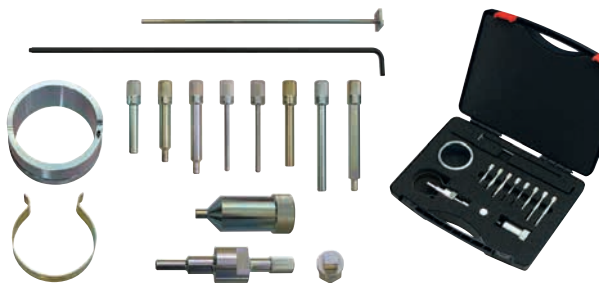
**Scope of Delivery:**

**KL-1380-28 A Locking Tool Set, Peugeot/Citroën 1.4 16V**

Part No.	Description	Qty
KL-1380-2220 A	Locking Pin, Ø 7.9mm	1
KL-1380-2222 A	Locking Pin, Ø 9.9mm	1
KL-1380-2801 A	Locking Pin (angled), Ø 6mm	1
KL-1380-2228 A	Retaining Pin for Tensioner Pulley, Ø 3mm	1
KL-1380-237 A	Retaining Clip for Timing Belt	1
KL-0680-2202 A	Locking Pin, Ø 4.5mm	1
KL-1480-11	Locking Pin (angled), Ø 6mm	1







(Engine codes: 3FY, 3FZ, 6FY, 6FZ, EW10A, EW10ABE4, EW10D, EW10J4, EW10J4/L4/5, EW10J4/L5, EW10J4S, EW12J4, EW12J4/L5, EW7A, EW7J4, RFH, RFJ, RFK, RFN, RFR, RLZ)

## KL-1380-24 KC

### Locking Tool Set, PSA 1.8, 2.0 and 2.2

Applicable to PSA (Citroën, Peugeot), Fiat, Lancia 1.8, 2.0 and 2.2 litre petrol engines as found in: Peugeot 206/CC, 307/CC, 406, 407, 607, 807, Expert I/II/III; Citroën C4, C5, C8, Dispatch, Jumpy, Xsara Picasso/II; Fiat Ulysse; Lancia Phedra.

Designed for the locking/positioning of engine shafts such as camshaft and crankshaft, and for adjusting the timing belt tensioner when replacing the timing belt or during an engine repair.

Scope of Delivery: KL-1380-24 KC Locking Tool Set, PSA, 1.8, 2.0 and 2.2

Part No.	Description	Qty
KL-1380-2481	Locking Pin (angled), Ø 4.9mm	1
KL-1380-2482	Adaptor, Ø 9.5mm	1
KL-0680-2202 A	Locking Pin, Ø 4.5mm	2
KL-0680-2203 A	Locking Pin, Ø 8mm	1
KL-1380-237 A	Retaining Clip for Timing Belt	1
KL-1380-242 A	Locking Pin Set for Camshaft	1
KL-1380-243 A	Locking Tool for Camshaft	1
KL-1380-244 A	Locking Pin for Crankshaft	1
KL-1380-245 A	Locking Pin for Flywheel, Ø 28.5/8mm	1
KL-1380-246 A	Adjustment Pin for Belt Tensioner Pulley	1
KL-1380-2471 A	Locking Pin for Crankshaft	1
KL-1380-2472 A	Adjustment Tool for Tensioner Pulley	1
KL-1380-2473 A	Counter-Holding Tool for Tensioner Pulley	1
KL-1380-2490 B	Plastic Storage Case with Insert	1

## KL-1380-752 K

### Locking Tool Set, PSA

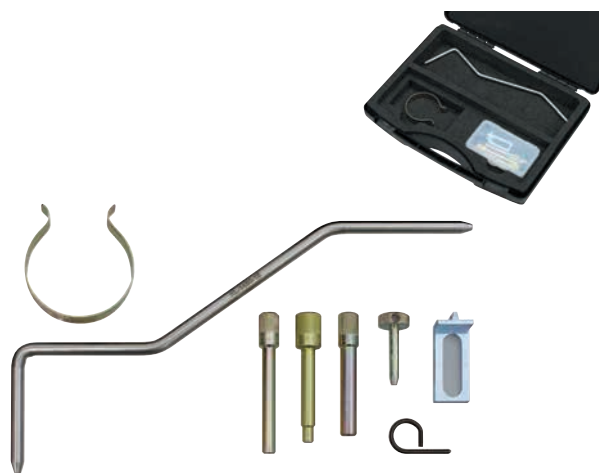
Applicable to PSA (Citroën, Peugeot) and Fiat 1.8 and 2.0 litre petrol engines as found in: Peugeot 306, Boxer II; Citroën Relay, Jumper; Fiat Ducato.

Designed for the locking/positioning of camshafts, crankshaft, timing belt tensioner, and flywheel. The kit also contains a tool to retain the timing belt on the crankshaft sprocket. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-1380-752 K Locking Tool Set, PSA

Part No.	Description	Qty
KL-1380-2218 A	Locking Pin, Ø 8.4/6.5mm	1
KL-1380-2220 A	Locking Pin, Ø 7.9mm	1
KL-1380-2222 A	Locking Pin, Ø 9.9mm	1
KL-1380-2228 A	Retaining Pin for Tensioner Pulley	1
KL-1380-231 A	Locking Tool for Flywheel	1
KL-1380-237 A	Retaining Clip for Timing Belt	1
KL-1480-12	Locking Pin (short), Ø 6mm	1
KL-1480-15	Locking Pin (angled)	1
KL-4990-2001	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1

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(Engine codes: LFY, LFZ, RFL, RFV, XU7JP/L3, XU7JP4/L3, XU10J2U, XU10J4R/L3)

## KL-0680-701 K

### Locking Tool Set, Ford, Fiat, PSA 2.2

Applicable to Ford, Fiat, Citroën and Peugeot 2.2 litre Common Rail Diesel engines. For example, fitted to: Ford Transit, Fiat Ducato, Citroën Relay/Jumper III and Peugeot Boxer III.

For locking the crankshaft and camshaft, as well as for aligning the engine front cover when installing it. The set also includes the necessary tool to remove/install crankshaft seal rings. An indispensable tool set when replacing timing chains or performing engine repairs.

Scope of Delivery: KL-0680-701 K Locking Tool Set, Ford, Fiat, PSA 2.2

Part No.	Description	Qty
KL-0680-7011	Locking Tool, Crankshaft	1
KL-0680-7012	Cap for Crankshaft	1
KL-0680-7013	Turning Tool for Injection Pump	1
KL-0680-2102 A	Locking Pin, Ø 14/10mm	1
KL-0680-2103 A	Locking Pin, Ø 6mm	2
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-1007	Plastic Storage Case	1



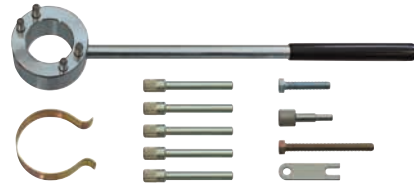
(Engine codes: 4HU (P22DTE), 4HV (P22DTE), CYFA, CYFB, CYFC, DRFA, DRFB, DRFC, P22DTE, P8FB, PGFA, PGFB, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, USRA)

## KL-1380-25 A Locking Tool Set, PSA

Applicable to PSA (Citroën, Peugeot), Lancia and Renault 3.0 litre petrol engines as found in: Peugeot 406, 407, 607; Renault Avantage, Laguna II; Citroën C5, C6, C8; Lancia Phedra.

(Engine codes: ES9A, ES9J4S, ES9J4S/L5, L7X, L7X 731, L7X 733, XFU, XFV, XFW, XFX)

Designed for the locking/positioning of camshafts, crankshaft and timing belt tensioner. The kit also includes tools to counter-hold the camshafts and to retain the timing belt on the crankshaft sprocket. An indispensable tool set when replacing a timing belt or performing an engine repair.



Scope of Delivery: KL-1380-25 A Locking Tool Set, PSA

Part No.	Description	Qty
KL-1380-251 A	Locking Pin Set	1
KL-1380-252 A	Camshaft Timing Check Pin, Ø 7.9/5.9mm	1
KL-1380-253 A	Holding Tool for Camshaft Sprocket (exhaust)	1
KL-1380-237 A	Retaining Clip for Timing Belt	1
KL-1480-18	Hex Screw, M8x40	1
KL-1380-232 A	Hex Screw, M8x80	1
KL-1380-257 A	Tensioner Tool	1
KL-4990-2003	Plastic Storage Box	1

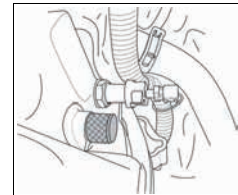
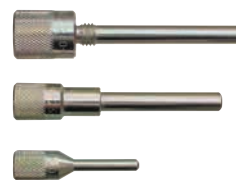
## KL-1280-701 Locking Tool Set, Renault

Applicable to Dacia, Nissan, Opel/Vauxhall, Renault, Suzuki and Mercedes 1.5 and 2.8 litre Diesel engines as fitted to: Renault Clio II / III, Fluence, Kangoo I / II, Laguna III, Logan, Mascott, Master II / Propulsion / RWD, Megane II / III, Modus I / II, Scenic I / II, Twingo II; Opel/Vauxhall Movano-A; Dacia Duster, Logan / MCV / Pick-up / Van; Nissan Cube, Juke, Kubistar, Micra, Note, NV200, Qashqai, Tiida; Suzuki Jimny; Mercedes A-Class, B-Class, Citan, CLA.

Designed for the locking/positioning of engine shafts such as camshaft, crankshaft, injection pump and flywheel. An indispensable tool set when changing a timing belt or performing an engine repair.

Scope of Delivery: KL-1280-701 Locking Tool Set, Renault

Part No.	Description	Qty
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1280-234 B	Locking Pin, M10/Ø 7.9mm	1
KL-1280-203 A	Locking Pin, Ø 4.9mm	1

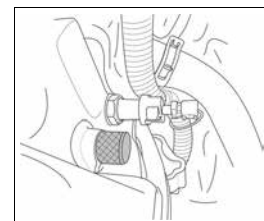
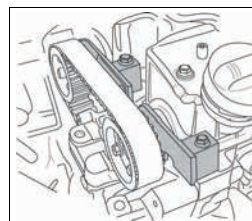


(Engine codes: K9K, K9K262, K9K 266, K9K 299, K9K 700, K9K 702, K9K 704, K9K 706, K9K 710, K9K 712, K9K 714, K9K 716, K9K 718, K9K 722, K9K 724, K9K 728, K9K 729, K9K 732, K9K 740, K9K 750, K9K 752, K9K 760, K9K 762, K9K 764, K9K 766, K9K 768, K9K 770, K9K 772, K9K 774, K9K 780, K9K 782, K9K 790, K9K 792, K9K 794, K9K 796, K9K 800, K9K 802, K9K 804, K9K 806, K9K 808, K9K 830, K9K 832, K9K 834, K9K 836, K9K 837, K9K 838, K9K 842, K9K 846, K9K 884, K9K 892, K9K 894, K9K 896, K9K 898; S9W 206, S9W 208, S9W 212, S9W 700, S9W 702, 607.951)

## KL-1280-24 KC Locking Tool Set, Renault

Applicable to Renault, Opel/Vauxhall and Nissan 1.5, 1.9, 2.2, 2.5, 2.8 and 3.0 litre Common Rail Diesel engines as found in Renault Clio II / III, Espace IV, Fluence, Kangoo I / II, Laguna II / III, Logan, Mascott, Master II, Megane I / II / III, Modus I / II, Scenic I / II / III, Traffic II, Twingo II, Vel Satis; Dacia Duster, Logan; Nissan Cube, Interstar, Juke, Kubistar, Micra, Navara, Note, NV200, Primastar, Qashqai, Tiida; Suzuki Grand Vitara, Jimny; Mitsubishi Carisma, Space Star; Opel/Vauxhall Movano-A, Vivaro. (Engine codes: F8Q 622, F8Q 630, F8Q 632, F8Q 662, F8Q 790, F9Q, F9Q1, F9Q2, F9Q 650, F9Q 660, F9Q 664, F9Q 670, F9Q 674, F9Q 680, F9Q 690, F9Q 731, F9Q 732, F9Q 733, F9Q 736, F9Q 740, F9Q 744, F9Q 748, F9Q 750, F9Q 751, F9Q 752, F9Q 754, F9Q 755, F9Q 758, F9Q 759, F9Q 760, F9Q 762, F9Q 770, F9Q 772, F9Q 774, F9Q 780, F9Q 782, F9Q 790, F9Q 800, F9Q 803, F9Q 804, F9Q 808, F9Q 812, F9Q 814, F9Q 818, F9Q 820, F9Q 826, F9Q 870, F9Q 872, F9Q B2, F9Q W772, G9T 600, G9T 605, G9T 606, G9T 607, G9T 642, G9T 645, G9T 700, G9T 702, G9T 702/703, G9T 703, G9T 706, G9T 707, G9T 720, G9T 722, G9T 742/743, G9T 750, G9T F722, G9U 630, G9U 632, G9U 650, G9U 720, G9U 724, G9U 726, G9U 730, G9U 750, G9U 754, G9U A720, K9K, K9K 262, K9K 266, K9K 299, K9K 700, K9K 702, K9K 704, K9K 706, K9K 710, K9K 712, K9K 714, K9K 716, K9K 718, K9K 722, K9K 724, K9K 728, K9K 729, K9K 732, K9K 740, K9K 750, K9K 752, K9K 760, K9K 762, K9K 764, K9K 766, K9K 768, K9K 770, K9K 772, K9K 774, K9K 780, K9K 782, K9K 790, K9K 792, K9K 794, K9K 796, K9K 800, K9K 802, K9K 804, K9K 806, K9K 808, K9K 830, K9K 832, K9K 834, K9K 836, K9K 837, K9K 842, K9K 846, K9K 884, K9K 892, K9K 894, K9K 896, K9K 898, S9W 206, S9W 208, S9W 212, S9W 700, S9W 702, VG30E)

Designed for the locking/positioning of camshafts, crankshaft, injection pump, timing belt tensioner and flywheel. The kit also includes tools to stretch/pre-set the tension on the timing belt. An indispensable tool set when changing a timing belt or performing an engine repair.



Scope of Delivery: KL-1280-24 KC Locking Tool Set, Renault

Part No.	Description	Qty
KL-1280-203 A	Lockin Pin, Ø 4.9mm	1
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1280-234 B	Locking Pin, M10/Ø 7.9mm	1
KL-1280-240 B	Timing Belt Pre-Tensioning Tool	1
KL-1280-241 A	Hex Screw, M6x60mm	1
KL-1280-242 A	Locking Tool for Camshafts	1
KL-1280-243 B	Locking Pin, Ø 7mm	1
KL-1280-2010	Locking Tool for Injection Pump	1
KL-1280-2490 B	Plastic Storage Case	1



## KL-1280-27 K

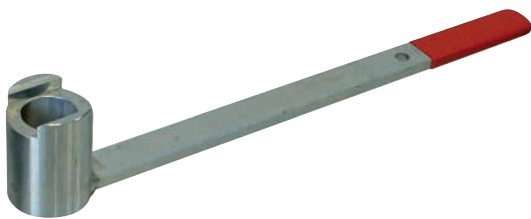
### Locking Tool Set, Renault 2.0 dCi

Applicable to Renault, Nissan, Opel/Vauxhall 2.0 and 2.3 dci Diesel engines as found in Renault Espace IV, Koleos, Laguna, Master, Megane, Senic III, Traffic II, Vel Satis; Nissan: Primastar, Qashqai, X-Trail; Opel/Vauxhall: Movano-B, Vivaro. (Engine codes: M9R, M9T)

Designed for the locking/positioning of camshaft, crankshaft and timing chain tensioner. An indispensable tool set when replacing a timing chain or performing an engine repair.

Scope of Delivery: KL-1280-27 K Locking Tool Set, Renault 2.0 dCi

Part No.	Description	Qty
KL-1280-271	Locking Tool for Camshaft	1
KL-1280-272	Locking Pin, M10/Ø 7.5mm	1
KL-0180-3026	Retaining Pin, Ø 2.6mm	1
KL-0182-19 A	Flywheel Locking Tool	1
KL-0482-462 A	Locking Pin, Ø 4mm	1
KL-1280-2790	Plastic Storage Case	1



## KL-1280-273

### Reaction Wrench

Applicable to Renault, Nissan, Opel/Vauxhall 2.0 dci, 2.3 dCi/CDTi and 3.0 dCi Diesel engines as found in Renault Espace, Koleos, Laguna, Latitude, Master, Megane, Trafic, Vel Satis; Nissan Primastar, Qashqai, X-Trail; Opel/Vauxhall Movano-B, Vivaro. (Engines codes: M9R, M9T, V9X)

This tool is used to counter-hold the crankshaft pulley while loosening/tightening the crankshaft central screw. Required when replacing a timing belt or performing an engine repair.



(Engine codes: F8Q 622, F8Q 630, F8Q 632, F8Q 662, F8Q 790, F9Q, F9Q1, F9Q2, F9Q 650, F9Q 660, F9Q 664, F9Q 670, F9Q 674, F9Q 680, F9Q 690, F9Q 731, F9Q 732, F9Q 733, F9Q 736, F9Q 740, F9Q 744, F9Q 748, F9Q 750, F9Q 751, F9Q 752, F9Q 754, F9Q 755, F9Q 758, F9Q 759, F9Q 760, F9Q 762, F9Q 770, F9Q 772, F9Q 774, F9Q 780, F9Q 782, F9Q 790, F9Q 800, F9Q 803, F9Q 804, F9Q 808, F9Q 812, F9Q 814, F9Q 818, F9Q 820, F9Q 826, F9Q 870, F9Q 872, F9Q B2, F9Q W722, VG30E)

## KL-1280-702 K

### Locking Tool Set, Renault

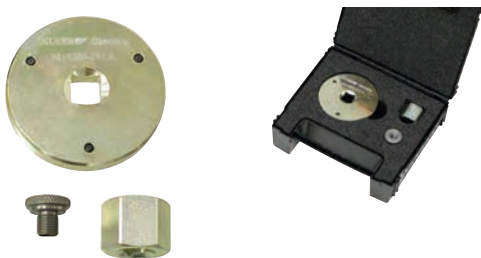
Applicable to Mitsubishi, Nissan, Opel/Vauxhall, Renault, and Suzuki 1.9 and 3.0 litre Diesel engines as found in: Renault Clio II, Espace IV, Kangoo, Laguna II, Master II, Megane I / II / III, Scenic I / II / III / RX4, Traffic II; Opel/Vauxhall Movano-A, Vivaro; Mitsubishi Carisma, Space Star; Nissan Interstar, Primastar, Navara; Suzuki Grand Vitara; Volvo S40/V40.

Designed for the locking/positioning of the crankshaft, injection pump and timing belt tensioner. Kit also includes tools to stretch/pre-set the tension on the timing belt.

An indispensable tool set when changing a timing belt or performing an engine repair.

Scope of Delivery: KL-1280-702 K Locking Tool Set, Renault

Part No.	Description	Qty
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1280-240 B	Timing Belt Pre-Tensioning Tool	1
KL-1280-241 A	Hex Screw, M6x60mm	1
KL-1280-2010	Locking Tool for Injection Pump	1
KL-1280-2490 B	Plastic Storage Case	1



(Engine codes: F8Q, F8Q 622, F8Q 630, F8Q 632, F8Q 662, F8Q 790, F9Q, F9Q1, F9Q2, F9Q 650, F9Q 660, F9Q 664, F9Q 670, F9Q 674, F9Q 680, F9Q 690, F9Q 731, F9Q 732, F9Q 733, F9Q 736, F9Q 740, F9Q 744, F9Q 748, F9Q 750, F9Q 751, F9Q 752, F9Q 754, F9Q 755, F9Q 758, F9Q 759, F9Q 760, F9Q 762, F9Q 770, F9Q 772, F9Q 774, F9Q 780, F9Q 782, F9Q 790, F9Q 800, F9Q 803, F9Q 804, F9Q 808, F9Q 812, F9Q 814, F9Q 818, F9Q 820, F9Q 826, F9Q 870, F9Q 872, F9Q B2, F9Q W772, D 4192 T, D 4192 T2)

## KL-1280-21 KA

### Injection Pump Adjustment Tool, Renault 1.9 D

Applicable to Renault, Mitsubishi, Opel/Vauxhall and Volvo 1.9 litre direct-injection Diesel engines with adjustable injection pump sprocket as found in Renault Megane/Scenic, Kangoo; Mitsubishi Carisma, Space Star; Opel/Vauxhall Arena; Nissan Interstar, Primastar and Volvo S40/V40.

This injection pump adjustment tool is used in conjunction with the KL-0129-1 A tool set and the corresponding locking tools for adjusting the injection pump timing relative to the crankshaft (start-of-delivery setting).

Scope of Delivery: KL-1280-21 KA Injection Pump Adjustment Tool, Renault 1.9 D

Part No.	Description	Qty
KL-1280-211 A	Adjustment Tool (3 Pins)	1
KL-1280-212 A	Special Socket, Size (waf) 27mm	1
KL-0129-2105 A	Adaptor for Bosch Pumps, M10x1 to M8x1	1
KL-1280-2190	Plastic Storage Case	1

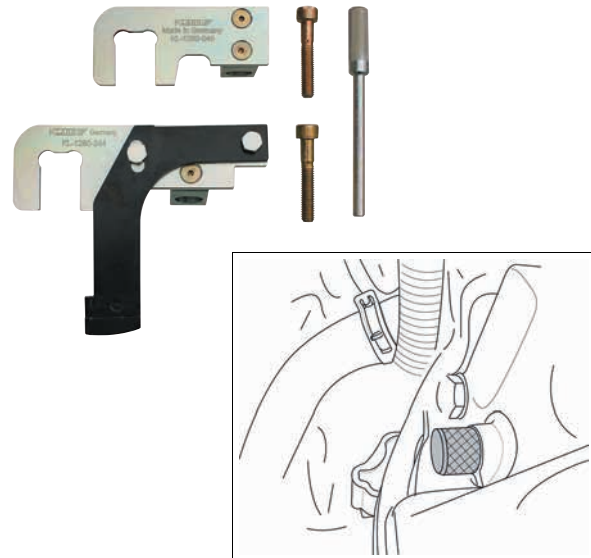
## KL-1280-703

### Locking Tool Set, Renault

Applicable to Nissan, Opel/Vauxhall and Renault 2.2 and 2.5 litre Diesel engines as found in: Renault Espace, Laguna II, Master II, Traffic II, Vel Satis; Opel/Vauxhall Movano-A, Vivaro; Nissan Interstar, Primastar.

(Engine codes: G9T 600, G9T 605, G9T 606, G9T 607, G9T 642, G9T 645, G9T 700, G9T 702, G9T 703, G9T 706, G9T 707, G9T 720, G9T 722, G9T 742, G9T 743, G9T 750, G9T F722, G9U 630, G9U 632, G9U 650, G9U 720, G9U 724, G9U 726, G9U 730, G9U 750, G9U 754, G9U A720)

Designed for the locking/positioning of engine shafts such as camshafts and crankshaft. An indispensable tool set when replacing a timing belt or performing an engine repair.



**Scope of Delivery:**

**KL-1280-703 Locking Tool Set, Renault**

Part No.	Description	Qty
KL-1280-242 A	Locking Tool for Camshaft	1
KL-1280-243 B	Locking Pin, Ø 7mm	1

## KL-1280-101 KA

### Locking Tool Set

Applicable to Renault, Dacia, Opel/Vauxhall, Ford, Suzuki, Nissan, Mitsubishi, Volvo 1.2, 1.4, 1.6, 1.8, 2.0 16V and 2.5 20V petrol engines, and for the 1.9, 2.2, 2.5, 2.8 D/TD/dTi and the 1.5, 1.9, 2.2, 2.5 dCi Diesel engines as found in Renault Avantime, Clio II/III, Espace IV, Fluence, Kangoo I/II, Laguna II/III, Logan, Mascott, Master, Megane I/II/III, Modus I/II, Safrane, Scenic I/II/III, Thalia, Traffic II, Twingo, Vel Satis, Wind; Dacia Duster, Logan; Nissan Cube, Interstar, Juke, Kubistar, Micra, Navara, Note, NV200, Primastar, Primera, Qashqai, Tiida; Suzuki Grand Vitara, Jimny; Opel/Vauxhall Movano, Vivaro; Volvo S40, V40; Ford Focus, Galaxy, Kuga, Mondeo, S-Max; Mitsubishi Carisma, Space Star.

(Engine codes: B 4184 S2, B 4184 S9, B 4194 T2, B 4204 S2, B 4204 T3, D4F, D4Ft, D7F, E7J, F4P, F4R, F4Rt, F8Q, F9Q, F9Q1, F9Q2, G9T, G9U, K4J, K7J, K7M, K9K, K4M, N7Q, N7U, S9W, VG30E)

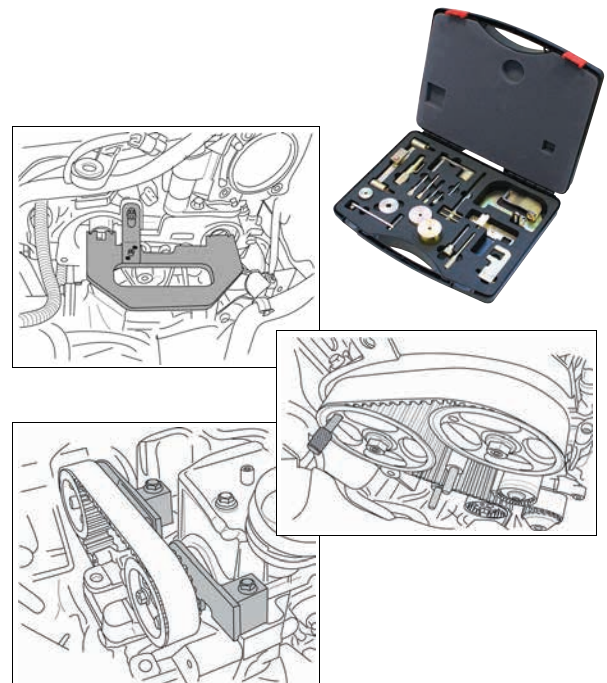
Designed for the locking/positioning of engine shafts such as camshaft, injection pump shaft, and crankshaft as well as for the adjustment of the timing belt tensioner while replacing a timing belt or during an engine repair.



**Scope of Delivery:**

**KL-1280-101 KA Locking Tool Set**

Part No.	Description	Qty
KL-1280-221 A	Locking Tool - For locking camshafts	1
KL-1280-231 B	Setting Gauge - For locking camshafts	1
KL-1280-242 A	Locking Tool - For locking camshafts	1
KL-1280-222 A	Locking Pin - For locking the crankshaft	1
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm - For locking the crankshaft	1
KL-1280-202 A	Locking Pin, Ø 6.9mm - For locking the crankshaft	1
KL-1280-204 A	Locking Pin, Ø 4.9/3.9mm - For locking the crankshaft	1
KL-1280-234 B	Locking Pin - For locking the crankshaft	1
KL-1280-243 B	Locking Pin - For locking the crankshaft	1
KL-1280-203 A	Locking Pin, Ø 4.9mm - For locking the injection pump	1
KL-1280-205 A	Hex Screw, M6x45mm - For adjusting the tensioner pulley	1
KL-1280-206 A	Adjustment Tool for Belt Tensioner	1
KL-1380-1011 A	Timing Belt Tensioner Tool - For adjusting the tensioner pulley	1
KL-1280-240 B	Timing Belt Pre-Tensioning Tool	1
KL-1280-1090	Plastic Storage Case	1





Applicable to Renault, Opel/Vauxhall, Volvo petrol engines as found in Renault: Clio, Twingo 1.2 (D7F) 1.2, 1.4, 1.6 (E5 - E7F/ E7J/K7M) Clio, Megane, Scenic, Kangoo: 1.7, 1.8, 2.0 (F1N - F3N / F3P / F2R - F3R) Clio, Megane, Scenic: 1.8, 2.0 16V (F7P/F7R) Clio Williams, Megane, Spider, R19: 2.0, 2.2 (J5R - J7R, J5T) Safrane, Espace, Master, Traffic Volvo: 440, 460, 480 (B16 / B18 / B20) etc. Also suitable for use on Renault, Opel/Vauxhall, Volvo Diesel engines as found in Renault Clio, Laguna, Megane, Kangoo, Espace, Master, Traffic; Opel/Vauxhall Arena, Movano; Volvo S40, V40 1.9, 2.5, 2.8 (F8M / F8Q / G8T / J8S / F9Q / S8U / S9U / S9W) etc.

## KL-1280-20 KA

### Locking Tool Set, Renault

Tool set for locking/positioning camshafts, crankshaft and injection pump shaft. It also includes a tool to tension the timing belt. An indispensable tool kit when replacing a timing belt or performing an engine repair.

**Scope of Delivery: KL-1280-20 KA Locking Tool Set, Renault**

Part No.	Description	Qty
KL-1280-2011 A	Locking Plate for Camshafts	1
KL-1280-2012	Set of Spacer Discs, 2mm (2-piece)	1
KL-1280-2013	Set of Spacer Discs, 8mm (2-piece)	1
KL-1280-203 B	Locking Pin for Crankshaft, Ø 7.9/11.9mm	1
KL-1280-202 A	Locking Pin for Crankshaft, Ø 6.9mm	1
KL-1280-203 A	Locking Pin for Injection Pump, Ø 4.9mm	1
KL-1280-204 A	Locking Pin for Crankshaft, Ø 4.9/3.9mm	1
KL-1280-206 A	Adjustment Tool for Timing Belt Tensioner, with 2 pins	1
KL-1280-205 A	Hex Screw, M6x45mm	1
KL-4990-1103	Plastic Storage Case	1

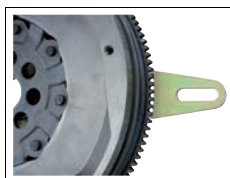


## KL-0182-1 A

(Universal)

### Flywheel Locking Tool

For detailed information, please refer to Chapter 6.6-58.



## KL-0182-19 A

### Flywheel Locking Tool

Suitable for use on Renault and Opel/Vauxhall 1.4, 2.0, 2.2, 2.3, 2.5 litre Diesel engines as found in Renault Laguna, Safrane, Espace etc. (Engine codes: G8T, G9T, G9U, H4JT, M9R, M9T)

Designed to lock the flywheel with the gearbox removed.

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## KL-1280-26 K

### Locking Tool Set, Renault

Applicable to Renault, Dacia, Opel/Vauxhall, Ford, Nissan, Volvo petrol engines: 1.2 8V (D7F), 1.2 16V (D4F), 1.2 Turbo (D4Ft), 1.4 8V (E7J), 1.4 16V (K4J), 1.4 (K7J); 1.6 8V (K7M), 1.6 16V (K4M), 1.8 16V (F4P); 2.0 8V (F3R), 2.0 16V (F4R / F4rt / F7R / N7Q), 2.0 (M54R); 2.0 16V IDE (F5R), 2.5 20V (N7U); Diesel engines: 1.5 dCi (K9K);

Volvo engines: 1.8 16V (B 4184 S2 / S9), 1.9 T4 (B4194 T2), 2.0 16V (B 4204 S2), 2.0 T (B 4204 T3);

Ford: 2.5 (Duratec-ST /-VE /-RS).

as found in Twingo, Clio, Modus, Kangoo, Megane, Megane Scenic, Grand Scenic, Laguna, Espace, Safrane, Traffic, Avantime, Vel Satis as well as in Opel/Vauxhall Vivaro; Dacia Sandero, Logan; Nissan Micra, Note, Almera, Kubistar, Primastar; Volvo S40 I, V40; Ford Galaxy, Focus, Kuga, Mondeo, S-Max.

**Scope of Delivery: KL-1280-26 K Locking Tool Set, Renault**

Part No.	Description	Qty
KL-1280-205 A	Hex Screw, M6x45mm	1
KL-1280-206 A	Belt Tensioner Wrench with 2 Pins	1
KL-1280-221 A	Locking Tool for Camshafts	1
KL-1280-222 A	Locking Pin for Crankshaft	1
KL-1280-231 B	Setting Gauge for Camshafts	1
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1280-234 B	Locking Pin, M10/Ø 7.9mm	1
KL-1280-235 B	Tensioner Wrench for Idler Pulley	1
KL-1280-236 A	Locking Plate for Camshaft Sprockets, Renault	1
KL-1280-2371	Installation Tool, Ø 43mm	1
KL-1280-2372	Installation Tool, Ø 57.5mm	1
KL-1280-250	Setting Gauge for Camshaft	1
KL-1280-281 A	Locking Plate for Camshaft Sprockets	1
KL-1380-1011 A	Timing Belt Pre-Tensioning Tool	1
KL-1280-2690	Storage Case with Insert	1

This tool set is designed to lock/position engine shafts such as camshafts and crankshaft, to prevent camshaft sprockets from turning\* while loosening or tightening the camshaft central screws. It also allows for the quick and easy installation of camshaft plugs. An indispensable tool set when replacing a timing belt or performing an engine repair.

\*only the KL 1280-281 A

## KL-1280-751 K Locking Tool Set, Renault

Applicable to Renault, Dacia, Nissan, Proton 1.2, 1.4 and 1.6 litre petrol engines as found in: Renault Clio II / III, Kangoo I / II, Logan, Megane, Modus, Thalia, Twingo I / II, Wind; Nissan Kubistar; Proton Savvy; Dacia Logan.

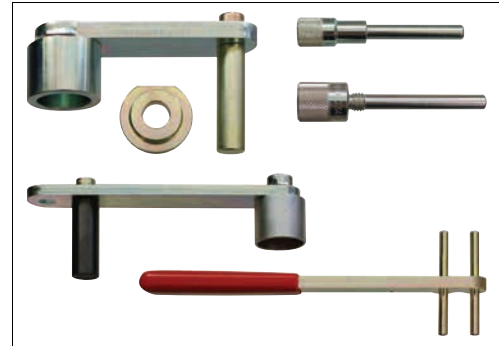
(Engine codes: D4F, D4F 702, D4F 704, D4F 706, D4F 708, D4F 712, D4F 714, D4F 716, D4F 722, D4F 728, D4F 730, D4F 740, D4F 742, D4F 764, D4F 772, D4F 774, D4Ft 780, D4Ft 782, D4Ft 784, D4Ft 786, D7F 702, D7F 703, D7F 704, D7F 706, D7F 708, D7F 710, D7F 720, D7F 722, D7F 726, D7F 744, D7F 746, D7F 764, D7F 766, D7F 800, D7F B700, D7F C701, E7J 626, E7J 634, E7J 635, E7J 780, K7J 710, K7M 710, K7M 744, K7M 746, K7M 850)

Designed for the locking/positioning of the crankshaft and timing belt tensioner. Kit also includes tools to stretch/pre-set the tension on the timing belt. An indispensable tool set when replacing a timing belt or performing an engine repair.

### Scope of Delivery:

#### KL-1280-751 K Locking Tool Set, Renault

Part No.	Description	Qty
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1280-206 A	Belt Tensioner Wrench with 2 Pins	1
KL-1380-1011 A	Timing Belt Pre-Tensioning Tool	1
KL-1280-234 B	Locking Pin, M10/Ø 7.9mm	1
KL-1280-7511	Timing Belt Pre-Loading Tool	1
KL-4990-1003	Plastic Storage Case	1



## KL-1280-28 KB Locking Tool Set, Renault

Applicable to Renault, Dacia, Opel/Vauxhall, Nissan 1.4, 1.6, 1.8 and 2.0 litre petrol engines as found in Renault Aventime, Clio II / III, Espace IV, Kangoo, Laguna II / III, Logan, Megane I / II / III, Modus, Scenic I / II, Traffic II, Twingo II, Vel Satis; Nissan Kubistar, Primastar; Opel/Vauxhall Vivaro; Dacia Duster, Logan.

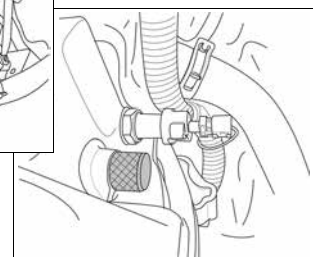
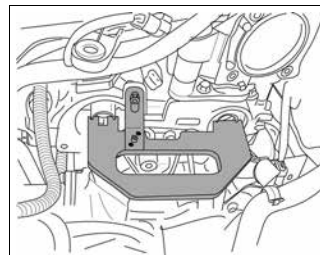
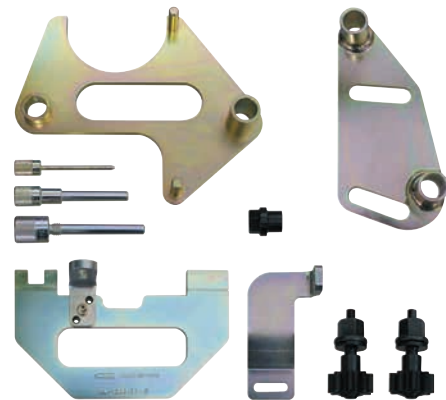
(Engine codes: F4P 720, F4P 722, F4P 770/771, F4P 772, F4P 773, F4P 774, F4P 775, F4R 712, F4R 713, F4R 714, F4R 715, F4R 720/722, F4R 730, F4R 732, F4R 740, F4R 740/741, F4R 741, F4R 744, F4R 746, F4R 770/771, F4R 790, F4R 791, F4R 792, F4R 820, F4R 830, F4R 832, F4Rt 720/722, F4Rt 762/763, F4Rt 764/765, F4Rt 766, F4Rt 767, F4Rt 774, F4Rt 776, F4Rt 784, F4Rt 786, F4Rt 787, F4Rt 794/795, F4Rt 796/797, F4Rt 800, F4Rt 802, F4Rt 810, F4Rt 811, F4Rt 813, F4Rt 867, F4Rt 870, F4Rt 874, F4Rt 886, F4Rt 887, F4Rt 896/897, K4J, K4J 700, K4J 710/711, K4J 712, K4J 713, K4J 714, K4J 715, K4J 730, K4J 732, K4J 740, K4J 750, K4J 770, K4J 780, K4M 606, K4M 690, K4M 696, K4M 700, K4M 701, K4M 704, K4M 706, K4M 708, K4M 709, K4M 710/711, K4M 712, K4M 714, K4M 716, K4M 718, K4M 730, K4M 732, K4M 734, K4M 740, K4M 742, K4M 743, K4M 744/745, K4M 746, K4M 748, K4M 750/752/753, K4M 752/753, K4M 760, K4M 760/761, K4M 761, K4M 764, K4M 766, K4M 782, K4M 790, K4M 791, K4M 792, K4M 794, K4M 800, K4M 800/801, K4M 801, K4M 802, K4M 804, K4M 812/813, K4M 824, K4M 830, K4M 831, K4M 834, K4M 846, K4M 848, K4M 854, K4M 858, K4M 862, K4M 866)

Designed for the locking/positioning of camshafts, crankshaft and V-ribbed belt tensioners. An indispensable tool set when replacing a timing belt or performing an engine repair.

### Scope of Delivery:

#### KL-1280-28 KB Locking Tool Set, Renault

Part No.	Description	Qty
KL-0482-462 A	Locking Pin, Ø 4mm	1
KL-1280-231 B	Setting Gauge for Camshaft	1
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1280-234 B	Locking Pin, M10/Ø 7.9mm	1
KL-1280-236 A	Locking Plate for Camshaft Sprockets, Renault	1
KL-1280-281 A	Locking Plate for Camshaft Sprockets	1
KL-1280-2690	Plastic Storage Case	1





## KL-1280-23 KB

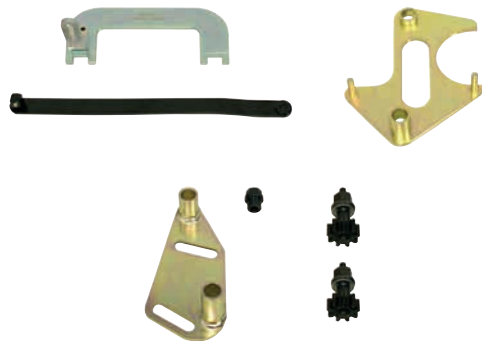
Locking Tool Set for Timing Belt,  
Renault 1.4, 1.6, 1.8, 2.0 16V and 1.5 dCi

**Applicable to Renault 1.4, 1.6 16V (K4J / K4M [98-]), 1.8, 2.0 16V (F4P / F4Rt / F4R [98-]) TwinCam petrol engines, and 1.5 dCi (K9K) Diesel engines; as installed in Renault Clio, Clio Sport, Modus, Megane / Scenic, Kangoo, Espace, Laguna; and Nissan Micra, Almera, Kubistar, Cube, Juke, Note, NV200, Qashqai and Tiida; Dacia 1.5 Duster and Logan; Opel/Vauxhall Vivaro; Suzuki 1.5 Jimny.**

Tool set for the locking/positioning of engine shafts such as camshafts and crankshaft; required when changing a timing belt or during an engine repair.

**Scope of Delivery: KL-1280-23 KB Locking Tool Set for Timing Belt**

Part No.	Description	Qty
KL-1280-231 B	Setting Gauge for Camshafts	1
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1280-234 B	Locking Pin, M10/Ø 7.9mm	1
KL-1280-2390 B	Plastic Storage Case	1



## KL-1280-280

Upgrade Kit for KL-1280-23 KB  
(forms KL-1280-28 KA)

**Applicable to Renault 1.4 16V (K4J); 1.6 16V (K4M); 1.8 16V (F4P); 2.0 16V (F4R) and 2.0 16V IDE (F5R 700, 701, 740) TwinCam petrol engines. e.g. Renault Megane, Laguna, Laguna II.**

This tool set is designed to prevent camshaft sprockets from turning while loosening or tightening the camshaft central screws, as well as to lock and position camshafts. It can also be used for the removal and installation of the idler pulley. An indispensable tool kit when replacing a timing belt or performing an engine repair.

**Scope of Delivery: KL-1280-280 Upgrade Kit**

Part No.	Description	Qty
KL-1280-235 B	Tensioner Wrench for Idler Pulley	1
KL-1280-236 A	Locking Plate for Camshaft Sprockets	1
KL-1280-281 A	Locking Plate for Camshaft Sprockets	1
KL-1280-250	Setting Gauge for Camshaft	1

6

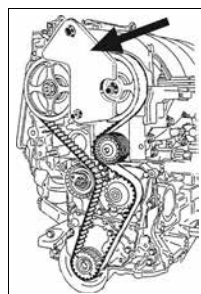


## KL-1280-235 B

Tensioner Wrench for Idler Pulley

**Suitable for use on Renault 1.4 and 1.6 TwinCam (DOHC) petrol engines (engine codes: K4J, K4M) as found in Clio III, Megane/Scenic II, Laguna II, Modus and Kangoo. Volvo 2.4 and 2.5 engines (engine codes: B5244S4, B5244S5, B5244S7, B5254T3, B5254T7) as found in C30, C70, S40 and V50. Proton Savvy 1.2 (engine code: D4F).**

This tool is required for the removal and installation of the idler pulley, e.g. when replacing a timing belt or performing an engine repair. For example, included in tool set **KL-1280-280**.



## KL-1280-236 A

Locking Plate for Camshaft Sprockets,  
Renault

**Suitable for use on Renault 1.4 and 1.6 litre TwinCam petrol engines (engine codes: K4J, K4M) as found in Clio III, Megane/Scenic II, Laguna II, Modus and Kangoo.**

This tool is used to counter-hold the camshaft sprockets while loosening/tightening the camshaft central screw, e.g. when replacing a timing belt or during an engine repair.

## KL-1280-237 Installation Tool Set, Renault

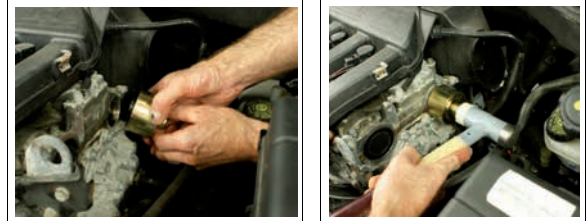
Suitable for use on Renault 1.4, 1.6, 1.8 and 2.0 16V TwinCam petrol engines as found in Renault Clio, Avantime, Laguna, Megane, Modus, Scenic, Traffic, Twingo, Vel Satis, Kangoo and Espace; Dacia Duster and Logan; Nissan Primastar; Opel/Vauxhall Vivaro. (Engine codes: K4J, K4M, F4P, F4R; F4Rt, F5R).

These tools allow for the quick and easy installation of camshaft plugs. They are required when replacing a timing belt or performing an engine repair.

**Scope of Delivery:**

**KL-1280-237 Installation Tool Set, Renault**

Part No.	Description	Qty
KL-1280-2371	Installation Tool, Ø 43mm	1
KL-1280-2372	Installation Tool, Ø 57.5mm	1



## KL-1280-22 A Locking Tool Set for Timing Belt, Renault 2.0 and 2.5

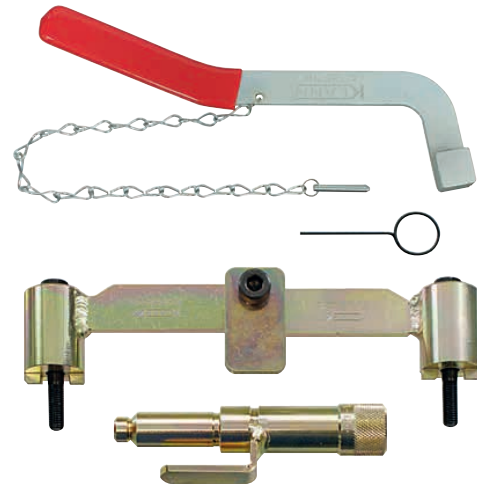
Applicable to Renault and Volvo TwinCam petrol engines. Renault 2.0 16V (N7Q) and 2.5 20V (N7U) as found in Laguna and Safrane. Volvo 1.8 16V (B4184 S2/S9), 1.9 T4 (B4194 T2) and 2.0 16V / T (B4204 S2/T3) as found in S40 laund V40.

Designed for the locking/positioning of engine shafts such as camshaft and crankshaft when changing a timing belt or during engine repairs.

**Scope of Delivery:**

**KL-1280-22 A Locking Tool Set for Timing Belt**

Part No.	Description	Qty
KL-1280-221 A	Locking Tool for Camshafts	1
KL-1280-222 A	Locking Pin for Crankshaft	1
KL-0180-3019	Retaining Pin for Hydraulic Tensioner Pulley, Ø 1.9mm	1
KL-1280-224 A	Tensioner Spanner with Retaining Pin for Auxiliary Belt	1



## KL-1280-25 KA Locking Tool Set, Renault 2.0

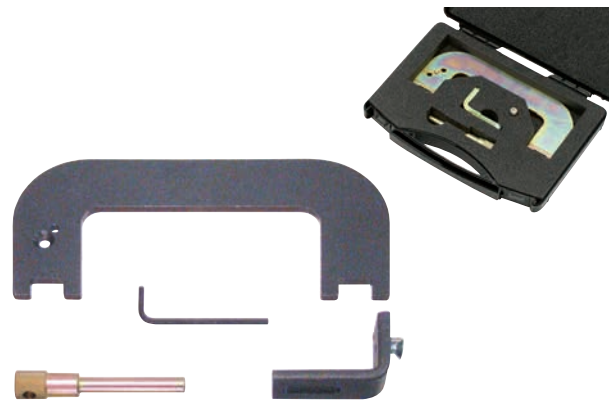
Applicable to Renault 2.0 16V IDE TwinCam petrol engines as found in Renault Megane, Laguna etc. (Engine codes: F5R 700, 701, 740)

This tool set is designed for the locking/positioning of engine shafts such as camshafts and crankshaft when replacing a timing belt or during an engine repair.

**Scope of Delivery:**

**KL-1280-25 KA Locking Tool Set, Renault 2.0**

Part No.	Description	Qty
KL-1280-250	Setting Gauge for Camshafts	1
KL-1280-233 B	Locking Pin, Ø 7.9/1.9mm	1
KL-1280-2590 A	Storage Case with Insert	1

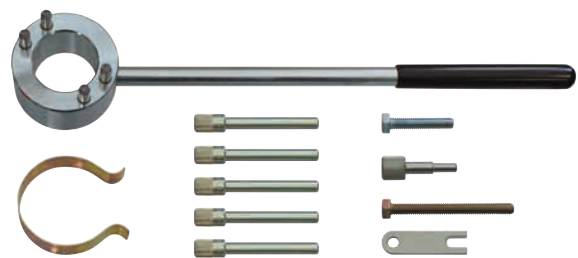


## KL-1380-25 A Locking Tool Set, PSA

Applicable to PSA (Citroën, Peugeot), Lancia and Renault 3.0 litre petrol engines as found in: Peugeot 406, 407, 607; Renault Avantime, Laguna II; Citroën C5, C6, C8; Lancia Phedra.

(Engine codes: ES9A, ES9J4S, ES9J4S/L5, L7X, L7X 731, L7X 733, XFU, Xfv, XFW, XFX)

Designed for the locking/positioning of camshafts, crankshaft and timing belt tensioner. The kit also includes tools to counter-hold the camshafts and to retain the timing belt on the crankshaft sprocket. An indispensable tool set when replacing a timing belt or performing an engine repair.

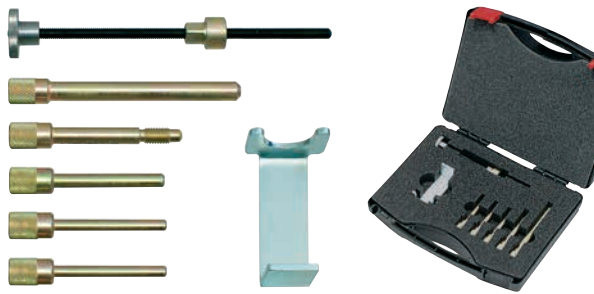


For scope of delivery, please refer to chapter 6.6-81



## KL-1780-16 K

### Locking Tool Set, Honda



(Engine codes: 20T2N, N22A1, N22A2, etc.)

Suitable for the Honda/Rover 1.6 Vti/VTEC, 1.8, 2.0, 2.2, 2.2 VTEC and the 2.3i petrol engines, and 2.0 TD, 2.0 Tdi Diesel engines as found in Honda Civic, Integra R, Accord, Prelude and Shuttle (1987-2004); Rover 216/416GTi and 600 Series, and Landrover Freelander.

Designed for the locking/positioning of engine shafts such as camshaft and crankshaft, as well as for locking and adjusting the timing belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.

#### Scope of Delivery: KL-1780-16 K Locking Tool Set, Honda

Part No.	Description	Qty
KL-1780-102 A	Locking Pin for Injection Pump, Ø 9.4mm	1
KL-1780-103 A	Locking Pin, Ø 6.7mm	1
KL-1380-2213 A	Locking Pin, Ø 4.9mm	2
KL-1780-107 A	Locking Pin, Ø 8mm	1
KL-1780-108 A	Tensioner Spindle for Timing Belt	1
KL-1780-140 A	Fixing Clip for Tensioning Element	1
KL-1780-1690	Plastic Storage Case	1

## KL-1780-15 A

### Reaction Wrench Set, Honda



Suitable for the Honda 1.2, 1.4, 1.7, 1.8, 2.0, 2.2, 2.3, 3.5 and 2.2 CDTi engines as found in Honda Accord, City, Civic, CR-V, FR-V, Insight, Jazz, Legend, Odyssey, Prelude, S2000, Shuttle, Stream. (Engine codes: N22A1, N22A2)

This tool set is designed to counter-hold the crankshaft pulley while loosening or tightening the crankshaft central screw, e.g. during engine repairs.

#### Scope of Delivery: KL-1780-15 A Reaction Wrench Set, Honda

Part No.	Description	Qty
KL-1780-1501 A	Lever	1
KL-1780-1502 A	Reaction Wrench, (waf) 50mm, angled	1
KL-1780-1503 A	Reaction Wrench, (waf) 50mm	1

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## KL-1780-10 KA

### Locking Tool Set for Timing Belt, Rover



(Engine codes: 10P, 14K16, 14K2A/D, 14K4C/D, 14K4F, 15P, 16K16, 16P, 18K16, 20HD, 20HD-M8, 20HD-M16, 20HD-M16, 20M4, 20M4G, 20T, 20T2N, 20T2R, 20T4, B16A1, B16A2, B18B2, B18C2, B18C6, B18C7, B20A1, B20A2, B20A5, B20A6, B20A7, B20A8, B20A9, D16A8, D16A9/Z4, F18A2, F18A3, F18B2, F18B4, F20A2, F20A3, F20A4, F20A5, F20A6, F20A7, F20A8, F20B3, F20B5, F20B6, F20B7, F20Z1, F20Z2, F20Z3, F22A1, F22A3, F22A5, F22A7, F22A8, F22B1, F22B3, F22B5, F22B6, F22B8, F22Z2, F23A1, F23A7, F23Z2, F23Z5, H22A1, H22A2, H22A4, H22A5, H22A7, H22A8, H23A1, H23A2, H23A3, K1.8, K16, K16-1.1, K16-1.4, K16-1.4+, K16-1.6, K16-1.8, K18, MDi, MDi/BB, TN44)

Suitable for the Rover Diesel and petrol engines (inclusive of Di and 16V) as found in Austin Maestro, Montego; Hoda Accord, Civic, Integra, Odyssey, Prelude, Shuttle; Land Rover Defender, Discovery, Freelander; LDV 200 Series, Sherpa; MG Express, MGF, TF, ZR, ZS, ZT, ZT-T; Rover 25, 45, 75, 100 Series, 200 Series, 400 Series, 600 Series, 800 SeriesCDV, Metro, Streetwise.

Designed for the locking/positioning of the flywheel, engine shafts such as camshafts, balance shaft, and crankshaft. Also includes a tool to adjust the timing belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.

#### Scope of Delivery: KL-1780-10 KA Locking Tool Set for Timing Belt, Rover

Part No.	Description	Qty
KL-1780-101 A	Locking Pin, Ø 6.6mm	2
KL-1780-102 A	Locking Pin for Injection Pump, Ø 9.4mm	1
KL-1380-2211 A	Locking Pin for Injection Pump, Ø 6.0mm	1
KL-1380-2215 A	Locking Pin (angled) for Flywheel, Ø 7.7mm	1
KL-1480-11	Locking Pin (angled) for Flywheel, Ø 6.0mm	1
KL-1480-18	Hex Screw, M8x40mm	3
KL-1780-103 A	Locking Pin, Ø 6.7mm	2
KL-1380-2213 A	Locking Pin, Ø 4.9mm	2
KL-1780-105 A	Locking Tool for Camshafts	1
KL-1780-106 A	Locking Tool for Camshafts	1
KL-1780-107 A	Locking Pin for Balance Shaft, Ø 8.0mm	1
KL-1280-205 A	Hex Screw M6x45mm	1
KL-1380-2230 A	Adjuster for Timing Belt Tensioner, 8 mm, square	1
KL-1780-108 A	Tensioner Spindle for Timing Belt	1
KL-1780-1090 A	Storage Case with Insert	1

## KL-1780-12 KA

### Locking Tool Set, Rover 45 V6, 75 V6

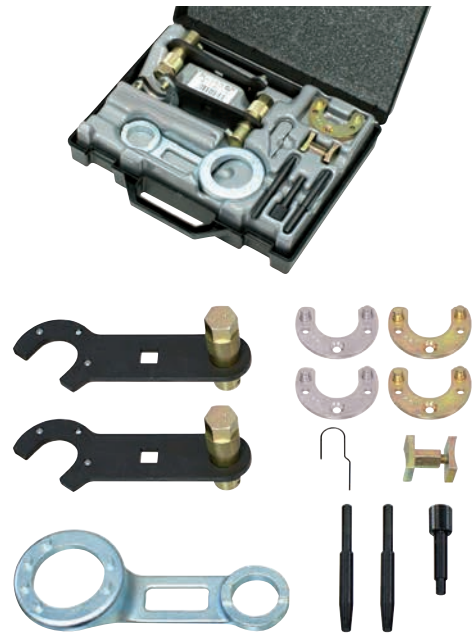
Applicable to Rover 2.0 and 2.5 V6 TwinCam engines as found in Rover 45, 75, 800 Series; Land Rover Freelander; MG ZR, ZS, ZT/ZT-T. (Engine code: KV6)

Designed for the locking/positioning of camshafts and the timing belt tensioner when replacing a timing belt or during an engine repair.

**Scope of Delivery:**

**KL-1780-12 KA Locking Tool Set, Rover 45 V6, 75 V6**

Part No.	Description	Qty
KL-1780-121	Locking Tool for Camshaft (2 pieces)	1
KL-1780-122	Adaptor for Locking Tool for Camshaft (silver) (2 pieces)	1
KL-1780-123	Adaptor for Locking Tool for Camshaft (golden) (2 pieces)	1
KL-1380-2226 A	Retaining Pin	1
KL-1780-124	Adjustment Tool for Rear Camshaft Sprockets	1
KL-1780-125	Spreader Tool for Rear Camshaft Sprockets	1
KL-1780-126	Mounting Pin for Rear Camshaft Sprockets (2 pieces)	1
KL-1780-127	Locking Pin, Ø 7.5mm	1
KL-1780-1290	Plastic Storage Case	1

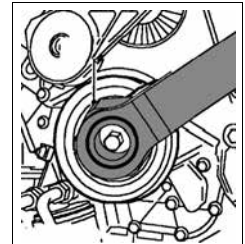
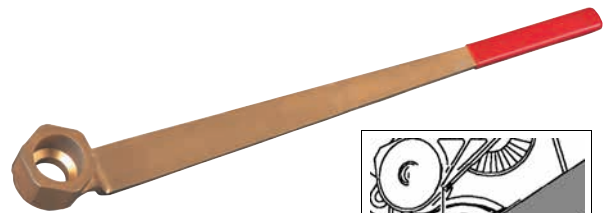


## KL-1780-13

### Reaction Wrench for Crankshaft

Suitable for use on Rover 2.0 and 2.5 V6 TwinCam engines (KV6) as found in Rover 45, 75 and Land Rover Freelander.

Designed to counter-hold the crankshaft pulley while loosening or tightening the crankshaft central screw (for example when replacing a timing belt).



6

## KL-0482-45 KA

### Locking Tool Set, Opel/Vauxhall 1.3 CDTi

Applicable to Opel/Vauxhall (Suzuki/Subaru) 1.3 litre CDTi/DDiS Diesel engines (Engine codes: A13DTC, A13DTE, A13DTR, D13A, LDV/A13DTC, LSF/A13DTE, Z13DT, Z13DTH, Z13DTI, Z13DTJ, Z13DTR) as found in Corsa, Swift etc.

Applicable to Fiat (Alfa/Ford/Lancia/Citroën/Peugeot) 1.3 litre engines. (Engine codes: 169A1.000; 169A1.000 (FD4)/BAAA/B; 169A5.000; 188A8.000; 188A9.000; 199A2.000; 199A3.000; 199A9.000; 199B1.000; 199B1.0000; 199B2.000; 199B4.000; 223A9.000; 263A2.000; 263A2.000; F13DTE5 (FHZ))

This tool set is designed for the locking/positioning of engine shafts such as camshaft and crankshaft, as well as of the timing chain tensioner while replacing a timing chain or during an engine repair.

**Scope of Delivery:**

**KL-0482-45 K Locking Tool Set, Opel/Vauxhall 1.3 CDTi**

Part No.	Description	Qty
KL-0482-450 A	Locking Tool for Camshaft (2 pcs.)	1
KL-0482-451 A	Locking Pin for Crankshaft, Ø 6mm	1
KL-0482-434	Retaining Pin, Ø 2.4mm	1
KL-0482-4590 A	Plastic Storage Case	1





(Engine codes: 8HP, 8HR, 8HS, 8HT, 8HV, 8HW, 8HX, 8HY, 8HZ, 9HF, 9HH, 9HJ, 9HL, 9HM, 9HN, 9HP, 9HR, 9HS, 9HT, 9HU, 9HV, 9HW, 9HX, 9HY, 9HZ, D4162T, D4164T, DV4C, DV4TD, DV4TED, DV4TED4, DV6, DV6C, DV6ATED4, DV6AUTED4, DV6BTED4, DV6BUTED4, DV6D, DV6DTED, DV6DU, DV6ETED, DV6TED4, DV6TED4B, DV6TED4BU, DV6UC, DV6UTED4, F6J4, F6JA, F6JB, F6JC, F6JD, G8DA, G8DB, G8DD, GPDA, HHDA, HHDB, HHJA, HHJB, HHJC, HHJD, HHJE, HHJF, MZ-CD 1.6 (Y6), T1BA/B/C, TZJA, Y6)

## KL-0680-220 B

### Set of Locking Pins, Citroën/Mazda/Peugeot/Suzuki/Toyota/Volvo

Applicable to Citroën 1.4, 1.4 Hdi, 1.6 Hdi, 2.0; Fiat 1.6 JTD; Ford 1.4 TDCi, 1.6 TDCi; Mazda 1.4 TDCi, 1.6 D, 1.6 MZ-CD; Peugeot 1.4 Hdi, 1.6 Hdi; Suzuki 1.4 DDiS; Toyota 1.0 VVT, 1.4 Di, 1.4 HDI; Volvo 1.6 D Diesel engines.

These pins are used for the locking/positioning of engine shafts such as camshaft, injection pump shaft and crankshaft when replacing a timing belt or during an engine repair.

#### Scope of Delivery:

##### KL-0680-220 B Set of Locking Pins

Part No.	Description	Qty
KL-0680-2201 A	Locking Pin, Ø 11mm	1
KL-0680-2202 A	Locking Pin, Ø 4.5mm	2
KL-0680-2203 A	Locking Pin, Ø 7.5mm	1

## KL-1280-702 K

### Locking Tool Set, Renault

Applicable to Mitsubishi, Nissan, Opel/Vauxhall, Renault and Suzuki 1.9 and 3.0 litre Diesel engines as found in: Renault Clio II, Espace IV, Kangoo, Laguna II, Master II, Megane I / II / III, Scenic I / II / III / RX4, Traffic II; Opel/Vauxhall Movano-A, Vivaro; Mitsubishi Carisma, Space Star; Nissan Interstar, Primastar, Navara; Suzuki Grand Vitara; Volvo S40/V40.

Designed for the locking/positioning of the crankshaft, injection pump and timing belt tensioner. Kit also includes tools to stretch/pre-set the tension on the timing belt. An indispensable tool set when changing a timing belt or performing an engine repair.

#### Scope of Delivery:

##### KL-1280-702 K Locking Tool Set, Renault

Part No.	Description	Qty
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1280-240 B	Timing Belt Pre-Tensioning Tool	1
KL-1280-241 A	Hex Screw, M6x60mm	1
KL-1280-2010	Locking Tool for Injection Pump	1
KL-1280-2490 B	Plastic Storage Case	1

6

(Engine codes: F8Q 622, F8Q 630, F8Q 632, F8Q 662, F8Q 790, F9Q, F9Q1, F9Q2, F9Q 650, F9Q 660, F9Q 664, F9Q 670, F9Q 674, F9Q 680, F9Q 690, F9Q 731, F9Q 732, F9Q 733, F9Q 736, F9Q 740, F9Q 744, F9Q 748, F9Q 750, F9Q 751, F9Q 752, F9Q 754, F9Q 755, F9Q 758, F9Q 759, F9Q 760, F9Q 762, F9Q 770, F9Q 772, F9Q 774, F9Q 780, F9Q 782, F9Q 790, F9Q 800, F9Q 803, F9Q 804, F9Q 808, F9Q 812, F9Q 814, F9Q 818, F9Q 820, F9Q 826, F9Q 870, F9Q 872, F9Q B2, F9Q W722, VG30E)

## KL-1280-21 KA

### Injection Pump Adjustment Tool, Renault 1.9 D

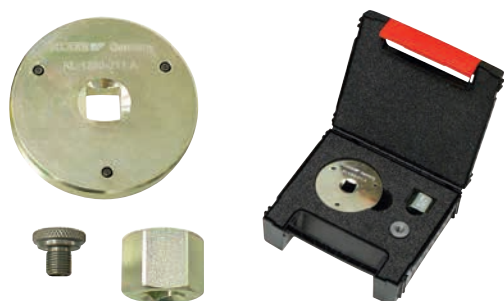
Applicable to Renault, Mitsubishi, Opel/Vauxhall and Volvo 1.9 litre direct-injection Diesel engines with adjustable injection pump sprocket as found in Renault Megane/Scenic, Kangoo; Mitsubishi Carisma, Space Star; Opel/Vauxhall Arena; Nissan Interstar, Primastar and Volvo S40/V40.

This injection pump adjustment tool is used in conjunction with the KL-0129-1 A tool set and the corresponding locking tools for adjusting the injection pump timing relative to the crankshaft (start-of-delivery setting).

#### Scope of Delivery:

##### KL-1280-21 KA Injection Pump Adjustment Tool, Renault 1.9 D

Part No.	Description	Qty
KL-1280-211 A	Adjustment Tool (3 Pins)	1
KL-1280-212 A	Special Socket, Size (waf) 27mm	1
KL-0129-2105 A	Adaptor for Bosch Pumps, M10x1 to M8x1	1
KL-1280-2190	Plastic Storage Case	1



(Engine codes: F8Q, F8Q 622, F8Q 630, F8Q 632, F8Q 662, F8Q 790, F9Q, F9Q1, F9Q2, F9Q 650, F9Q 660, F9Q 664, F9Q 670, F9Q 674, F9Q 680, F9Q 690, F9Q 731, F9Q 732, F9Q 733, F9Q 736, F9Q 740, F9Q 744, F9Q 748, F9Q 750, F9Q 751, F9Q 752, F9Q 754, F9Q 755, F9Q 758, F9Q 759, F9Q 760, F9Q 762, F9Q 770, F9Q 772, F9Q 774, F9Q 780, F9Q 782, F9Q 790, F9Q 800, F9Q 803, F9Q 804, F9Q 808, F9Q 812, F9Q 814, F9Q 818, F9Q 820, F9Q 826, F9Q 870, F9Q 872, F9Q B2, F9Q W772, D 4192 T, D 4192 T2)

## KL-2580-10 K Locking Tool Set, Mazda

Applicable to Ford, Citroën, Peugeot, Mazda, Suzuki, Toyota, Volvo 1.0, 1.25, 1.4, 1.6, 1.7, 1.8 and 2.0 litre petrol engines and for the 1.4, 1.6, 1.8 and 2.0 litre engines as found in Mazda 121, 2, 3, 6, Tribute; Ford C-Max, Cougar, Courier, Escort, Fiesta, Focus, Fusion, Galaxy, Mondeo, Orion, P100, Puma, S-Max, Sierra, Toureno, Transit; Opel/Vauxhall Agila, Corsa; Citroën Berlingo, C1, C2, C3, C4, C5, Xsara; Fiat Scudo; Peugeot 206, 307, 407; Suzuki C1; Toyota Aygo; Volvo C30, S40, V50 etc.

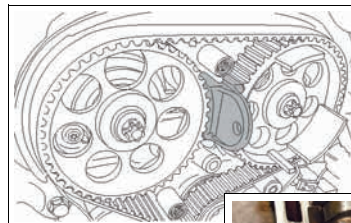
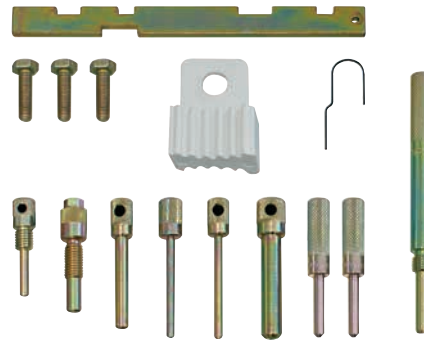
(Engine codes: 8HV, 8HW, 8HX, 9HX, 9HZ, BHDA/B, BHPA, C9DA/B/C, DHA, DHB, DHC, DHD, DHE, DHF, DHG, DV4TD, DV4TED4, DV6ATED4, DV6TED4, F6JA/B/C, F8JA/B, F9DA/B, FHA, FHE, FUJA/B, FXA/B, FXDA/C, FXDB/D, FXJA/B, FYDA/C, FYDB/D, FYDH, FYJA/B, G8DA/B, HCPA, HHDA, HWDA, HXDA, KKDA, L1T, L1V, M7JA/B, MHA, RFA, RFD, RFK, RFL, RFN, RTB, RTC, RTH, RTJ, RTK)

This tool set is designed for the locking/positioning of camshafts, crankshaft, injection pump shaft, as well as of the timing belt tensioner. An indispensable tool kit when replacing a timing belt or performing an engine repair.

### Scope of Delivery:

#### KL-2580-10 K Locking Tool Set, Mazda

Part No.	Description	Qty
KL-0680-10	Locking Pin for Crankshaft	1
KL-0680-14 A	Locking Pin, Ø 6mm	2
KL-0680-15 A	Setting Gauge for Camshafts	1
KL-0680-17	Locking Pin for Crankshaft	1
KL-0680-2201 A	Locking Pin, Ø 11mm	1
KL-0680-2202 A	Locking Pin, Ø 4.5mm	2
KL-0680-2203 A	Locking Pin, Ø 7.5mm	1
KL-0680-18	Locking Pin for Crankshaft	1
KL-1380-2226 A	Retaining Pin for Tensioner Pulley, Ø 1.5mm	1
KL-2580-101	Locking Tool for Camshafts, Mazda 1.8 and 2.0	1
KL-1480-17	Hex Screw, M8x30mm	3
KL-2580-1090	Plastic Storage Case	1



6

## KL-0680-27 A Locking Tool Set, Ford

Applicable to Ford and Mazda 1.25, 1.4, 1.6, 1.7, 1.8, 2.0, 2.3 and 2.5 litre TwinCam Duratec petrol engines (timing belt/timing chain), as installed in: Ford C-Max, Courier, Cougar, Fiesta, Fusion, Focus, Galaxy, Maverick, Mondeo, Puma, S-Max, Tourneo Connect and Transit Connect; Mazda 121, 2, 3, 323, 5, 6, MPV, Tribute and Xedos 9.

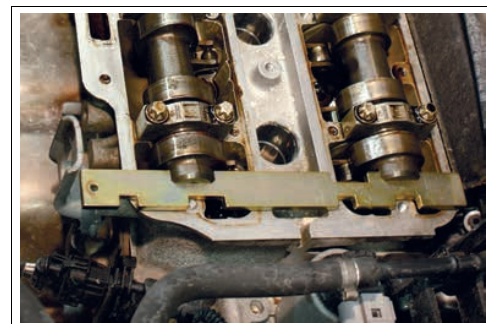
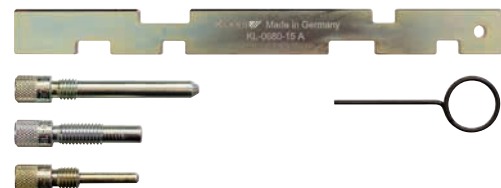
(Engine codes: ALDA, AOBA, AOBC, AODA, AODB, AODE, AOWA, AOWB, BP, CDBB, CGBA/B, CHBA/B, CJBA/B, CSDA, CSDB, E5FA, E5FC, E5SA, E5SB, E5DB, E5DC, E5DD, E5DF, E5DB, EYDC, EYDD/E, EYDF, EYDG, EYDI, EYDJ, EYDL, EYPA, EYPC, F8JA, F8JB, FE, FP, FS, FUJA, FUJB, FXJA, FXJA/B, FYJA, FYJB, FYJC, GZ, GZFA, GZFB, GZFC, HMDA, KL, L3, L5, L8, LF, MZR 1.8 (L8), N4JB, Q7DA, QQDA, QQDB, QQDC, SEBA, SEWA, SYDA, TBBA, TBBB, TBWA, TBWB, TNBA, YF, ZVSA)

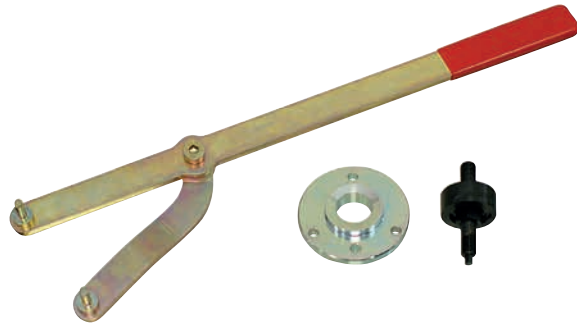
This tool set is designed for the locking/positioning of engine shafts such as camshaft, crankshaft and the timing belt tensioner. It is required when replacing timing belts/ timing chains and for engine repairs.

### Scope of Delivery:

#### KL-0680-27 A Locking Tool Set, Ford

Part No.	Description	Qty
KL-0680-15 A	Setting Gauge for Camshafts	1
KL-0680-17	Locking Pin for Crankshaft	1
KL-0680-16 A	Locking Pin for Crankshaft	1
KL-0680-18	Locking Pin for Crankshaft	1
KL-0180-3024	Retaining Pin, Ø 2.4mm	1





(Engine codes: E5FA, E5FC, E5SA, E5SB, QJBA, ZVSA etc.)

## KL-0680-20 A

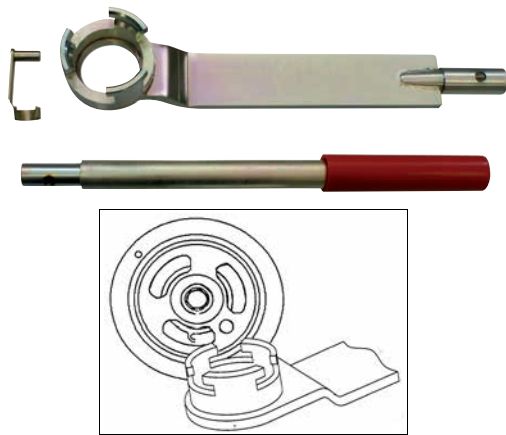
### Vibration Damper Installation/Removal Tool, Ford/Mazda

**Applicable to Ford Zetec engines as found in Ford Fiesta 1.25, 1.4, 1.6 16V, Puma 1.4, 1.6, 1.7 16V, Focus 2.2, Galaxy 2.0, 2.3, Transit 2.3 and Mazda 121 1.25 16V.**

Designed for the removal and installation of vibration dampers. Required for engine repairs or when replacing a timing belt.

**Scope of Delivery: KL-0680-20 A Vibration Damper Installation/Removal Tool**

Part No.	Description	Qty
KL-0680-201 A	Reaction Wrench with Pin, Ø 7.5mm	1
KL-0680-202 A	Extraction Plate for Crankshaft Vibration Damper	1
KL-0680-203 A	Installation Tool for Crankshaft Pulley	1



(Engine codes: B4184S11, B4184S8, B4204S3, B4204S4, L3 Turbo, LF, LF (MZR DISI), MZ-CD 1.6 (Y6), MZR 1.3 (ZJ), MZR 1.5 (ZY), MZR 1.8 (L8), MZR 2.0 (LF), ZJ, ZY)

## KL-0184-061

### Reaction Wrench, Ford

**Applicable to Ford, Mazda, Volvo 1.3, 1.5, 1.6, 1.8, 2.0 and 2.3 litre engines; as installed in Ford Focus/C-Max, Mondeo, S-Max, Galaxy; Mazda 2, 3, 5, 6, CX-7, MX-5; Volvo C30, S40, V50, V70, S80.**

This tool is designed to counter-hold the crankshaft pulley while loosening and tightening the crankshaft central screw. It is required when replacing timing belts and for engine repairs.

**Technical Data:**

Overall length (of assembled tool):	754mm
Length of extension tube with protective handle:	403mm
Length of base tool:	401mm

**Scope of Delivery: KL-0184-061 Reaction Wrench, Ford**

Part No.	Description	Qty
KL-0184-0610	Reaction Wrench (Base Tool)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0103	Folding Spring Bolt	1

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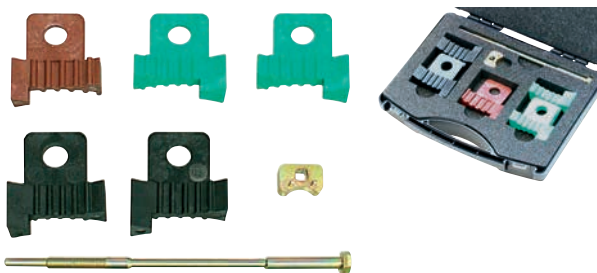


## KL-2282-10

### Reaction Wrench

**Suitable for use on Subaru engines: 1.6, 2.0 and 2.5 litre (engine codes: EJ161, EJ20, EJ201, EJ251) as found in Forester 1998-2003, Legacy 1998-2006, Impreza 1998-2000. Note:** Not suitable for the 2.0 litre Turbo engines with variable valve timing.

This tool is designed to counter-hold the camshaft pulley while loosening or tightening the camshaft central screw. It is required when replacing a timing belt or for engine repairs.



## KL-2480-10 K

### Locking Tool Set, Mitsubishi/Hyundai

**Applicable to Mitsubishi/Hyundai 4-cylinder 2.0 16V and V6, 2.5 and 3.0 24V TwinCam petrol engines.**

An indispensable tool set for locking the camshafts as well as for tensioning and adjusting the timing belt tensioner.

**Scope of Delivery: KL-2480-10 K Locking Tool Set, Mitsubishi/Hyundai**

Part No.	Description	Qty
KL-2480-101	Locking Tool Set, Mitsubishi 2.0 GTI	1
KL-2480-102	Locking Tool Set, Mitsubishi 2.5 24V and 3.0 24V	1
KL-2480-103	Locking Tool for Camshafts, Mitsubishi	1
KL-2480-110	Locking Pin for Tensioner Pulley	1
KL-2480-120	Adjuster for Timing Belt Tensioner	1
KL-2480-1090	Plastic Storage Case	1



## KL-0780-10 KA Locking Tool Set, Volvo (Diesel engines)

Applicable to Volvo 1.6, 1.9, 2.0 and 2.4 litre Diesel engines as found in: C30, C70, S40, S60, S80, V40, V50, V60, V70, XC60, XC70, XC90.

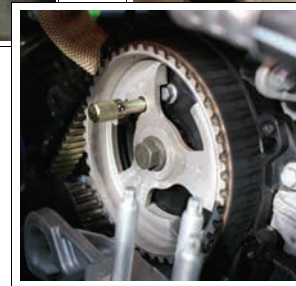
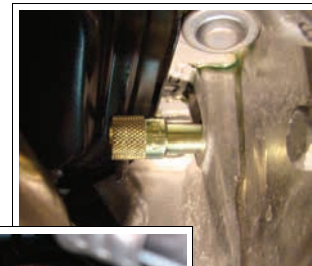
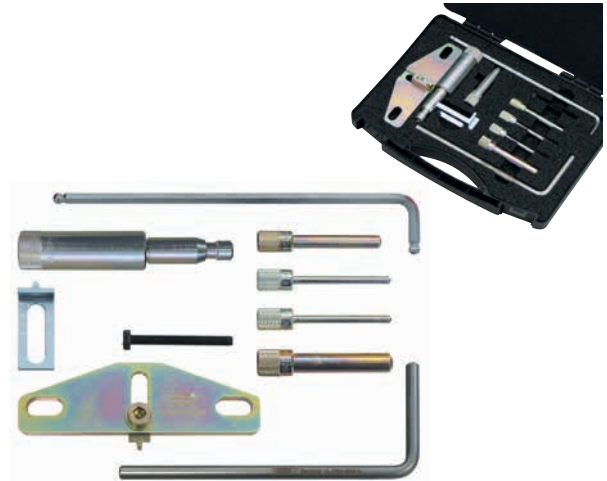
(Engine codes: D4162T, D4164T, D4192T3, D4192T4, D4204T, D4204T2, D5204T, D5204T2, D5204T3, D5204T5, D5244T, D5244T10, D5244T11, D5244T13, D5244T14, D5244T15, D5244T16, D5244T17, D5244T18, D5244T19, D5244T2, D5244T3, D5244T4, D5244T5, D5244T6, D5244T7, D5244T8, D5244T9)

Designed for the locking/positioning of camshafts, crankshaft, timing belt- and auxiliary drive belt (V-ribbed belt) tensioners, and flywheel. The kit also includes a tool to adjust the timing belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.

### Scope of Delivery:

#### KL-0780-10 KA Locking Tool Set, Volvo (Diesel engines)

Part No.	Description	Qty
KL-0280-2202 A	Special Hexagon Socket Key	1
KL-0680-2201 A	Locking Pin, Ø 11mm	1
KL-0680-2202 A	Locking Pin, Ø 4.5mm	2
KL-0680-2203 A	Locking Pin, Ø 8mm	1
KL-0680-2302 A	Locking Pin (angled)	1
KL-1380-2343	Hex Screw, M6x55mm	1
KL-0780-1001	Locking Tool for Flywheel	1
KL-1380-231 A	Locking Tool for Flywheel	1
KL-0780-1002	Locking Pin, Ø 14.9/11mm	1
KL-0780-1003	Locking Pin, Ø 12/10.5mm	1
KL-0780-1090	Plastic Storage Case	1



## KL-0680-220 B Set of Locking Pins, Citroën/Mazda/Peugeot/Suzuki/Toyota/Volvo

Applicable to Citroën 1.4, 1.4 Hdi, 1.6 Hdi, 2.0; Fiat 1.6 JTD; Ford 1.4 TDCi, 1.6 TDCi; Mazda 1.4 TDCi, 1.6 D, 1.6 MZ-CD; Peugeot 1.4 Hdi, 1.6 Hdi; Suzuki 1.4 DDiS; Toyota 1.0 VVT, 1.4 Di, 1.4 HDi; Volvo 1.6 D Diesel engines.

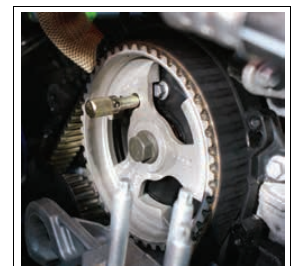
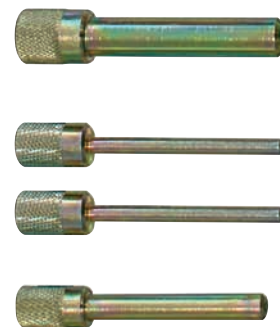
(Engine codes: 8HP, 8HR, 8HS, 8HT, 8HV, 8HW, 8HX, 8HY, 8HZ, 9HF, 9HH, 9HJ, 9HL, 9HM, 9HN, 9HP, 9HR, 9HS, 9HT, 9HU, 9HV, 9HW, 9HX, 9HY, 9HZ, D4162T, D4164T, DV4C, DV4TD, DV4TED, DV4TED4, DV6, DV6C, DV6ATED4, DV6AUTED4, DV6BTED4, DV6BUTED4, DV6D, DV6DTED, DV6DU, DV6ETED, DV6TED4, DV6TED4B, DV6TED4BU, DV6UC, DV6UTED4, F6J4, F6JA, F6JB, F6JC, F6JD, G8DA, G8DB, G8DD, GPDA, HHDA, HHDB, HHJA, HHJB, HHJC, HHJD, HHJE, HHJF, MZ-CD 1.6 (Y6), T1BA/B/C, TZJA, Y6)

These pins are used for the locking/positioning of engine shafts such as camshaft, injection pump shaft and crankshaft when replacing a timing belt or during an engine repair.

### Scope of Delivery:

#### KL-0680-220 B Set of Locking Pins

Part No.	Description	Qty
KL-0680-2201 A	Locking Pin, Ø 11mm	1
KL-0680-2202 A	Locking Pin, Ø 4.5mm	2
KL-0680-2203 A	Locking Pin, Ø 7.5mm	1





## KL-1280-702 K

### Locking Tool Set, Renault

Applicable to Mitsubishi, Nissan, Opel/Vauxhall, Renault and Suzuki 1.9 and 3.0 litre Diesel engines as found in: Renault Clio II, Espace IV, Kangoo, Laguna II, Master II, Megane I / II / III, Scenic I / II / III / RX4, Traffic II; Opel/Vauxhall Movano-A, Vivaro; Mitsubishi Carisma, Space Star; Nissan Interstar, Primastar, Navara; Suzuki Grand Vitara; Volvo S40/V40.

(Engine codes: F8Q 622, F8Q 630, F8Q 632, F8Q 662, F8Q 790, F9Q, F9Q1, F9Q2, F9Q 650, F9Q 660, F9Q 664, F9Q 670, F9Q 674, F9Q 680, F9Q 690, F9Q 731, F9Q 732, F9Q 733, F9Q 736, F9Q 740, F9Q 744, F9Q 748, F9Q 750, F9Q 751, F9Q 752, F9Q 754, F9Q 755, F9Q 758, F9Q 759, F9Q 760, F9Q 762, F9Q 770, F9Q 772, F9Q 774, F9Q 780, F9Q 782, F9Q 790, F9Q 800, F9Q 803, F9Q 804, F9Q 808, F9Q 812, F9Q 814, F9Q 818, F9Q 820, F9Q 826, F9Q 870, F9Q 872, F9Q B2, F9Q W722, VG30E)

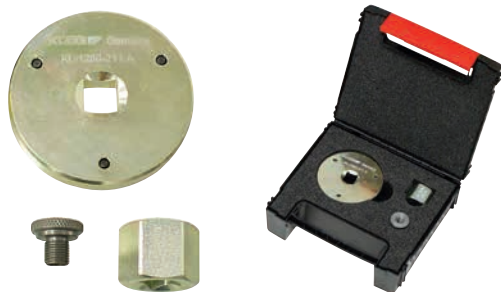
Designed for the locking/positioning of the crankshaft, injection pump and timing belt tensioner. Kit also includes tools to stretch/pre-set the tension on the timing belt. An indispensable tool set when changing a timing belt or performing an engine repair.

#### Scope of Delivery:

#### KL-1280-702 K Locking Tool Set, Renault

Part No.	Description	Qty
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1280-240 B	Timing Belt Pre-Tensioning Tool	1
KL-1280-241 A	Hex Screw, M6x60mm	1
KL-1280-2010	Locking Tool for Injection Pump	1
KL-1280-2490 B	Plastic Storage Case	1

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## KL-1280-21 KA

### Injection Pump Adjustment Tool, Renault 1.9 D

Applicable to Renault, Mitsubishi, Opel/Vauxhall and Volvo 1.9 litre direct-injection Diesel engines with adjustable injection pump sprocket as found in Renault Megane/Scenic, Kangoo; Mitsubishi Carisma, Space Star; Opel/Vauxhall Arena; Nissan Interstar, Primastar and Volvo S40/V40.

This injection pump adjustment tool is used in conjunction with the KL-0129-1 A tool set and the corresponding locking tools for adjusting the injection pump timing relative to the crankshaft (start-of-delivery setting).

#### Scope of Delivery:

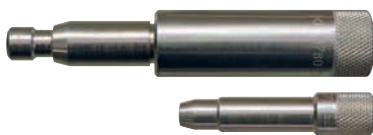
#### KL-1280-21 KA Injection Pump Adjustment Tool, Renault 1.9 D

Part No.	Description	Qty
KL-1280-211 A	Adjustment Tool (3 Pins)	1
KL-1280-212 A	Special Socket, Size (waf) 27mm	1
KL-0129-2105 A	Adaptor for Bosch Pumps, M10x1 to M8x1	1
KL-1280-2190	Plastic Storage Case	1

(Engine codes: F8Q, F8Q 622, F8Q 630, F8Q 632, F8Q 662, F8Q 790, F9Q, F9Q1, F9Q2, F9Q 650, F9Q 660, F9Q 664, F9Q 670, F9Q 674, F9Q 680, F9Q 690, F9Q 731, F9Q 732, F9Q 733, F9Q 736, F9Q 740, F9Q 744, F9Q 748, F9Q 750, F9Q 751, F9Q 752, F9Q 754, F9Q 755, F9Q 758, F9Q 759, F9Q 760, F9Q 762, F9Q 770, F9Q 772, F9Q 774, F9Q 780, F9Q 782, F9Q 790, F9Q 800, F9Q 803, F9Q 804, F9Q 808, F9Q 812, F9Q 814, F9Q 818, F9Q 820, F9Q 826, F9Q 870, F9Q 872, F9Q B2, F9Q W772, D 4192 T, D 4192 T2)

## KL-0780-701

### Locking Tool Set, Volvo



Applicable to Volvo 2.0 and 2.4 litre Diesel engines as found in: C70, S40, S60, S80, V50, V60, V70, XC60, XC70, XC90.

For the locking/positioning of engine shafts such as camshaft and crankshaft. An indispensable tool set when replacing a timing belt or performing an engine repair.

#### Scope of Delivery:

#### KL-0780-701 Locking Tool Set, Volvo

Part No.	Description	Qty
KL-0780-1002	Locking Pin, Ø 14.9/11mm	1
KL-0780-1003	Locking Pin, Ø 12/10.5mm	1

(Engine codes: D5204T, D5204T2, D5204T3, D5204T5, D5244T, D5244T10, D5244T11, D5244T13, D5244T15, D5244T17, D5244T18, D5244T2, D5244T3, D5244T4, D5244T5, D5244T6, D5244T7)

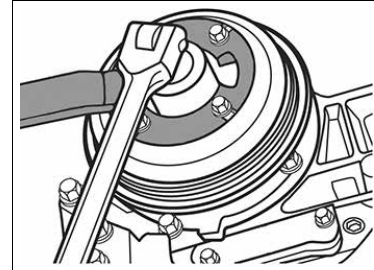
## KL-0780-30

### Counter-Holding Tool, Crankshaft

Applicable to Ford 2.5 and Volvo 1.6, 1.8, 1.9, 2.0, 2.3, 2.4, 2.5, 2.8 and 2.9 litre 4- and 5-cylinder petrol engines, and 2.0 and 2.4 litre 5-cylinder Diesel engines. Fitted to: Ford Focus, Galaxy, Kuga, Mondeo, S-MAX and Volvo C30, C70, S40, S60, S70, S80, V40, V50, V70, XC70, XC90.

(Engine codes: Ford HUBA, HUWA, HYDA, HYDB, JZDA, LCBD; Volvo B4164S, B4184S, B4194T, B4204S, B4204T, B5204T3, B5204T4, B5204T5, B5234FS, B5234T3, B5234T7, B5234T8, B5234T9, B5244S, B5244S2, B5244S4, B5244S5, B5244S7, B5244SG, B5244SG2, B5244T, B5244T2, B5244T3, B5244T4, B5244T5, B5244T7, B5254FS, B5254T, B5254T10, B5254T11, B5254T2, B5254T3, B5254T4, B5254T5, B5254T6, B5254T7, B5254T8, B6284T/T2, B6294S, B6294S2, B6294T, B6304S3, D5204T, D5204T2, D5204T3, D5204T5, D5244T, D5244T10, D5244T11, D5244T13, D5244T14, D5244T15, D5244T16, D5244T17, D5244T18, D5244T19, D5244T2, D5244T3, D5244T4, D5244T5, D5244T6, D5244T7, D5244T8, D5244T9)

This tool is designed to be used for counter-holding the vibration damper while loosening and tightening the crankshaft central screw.



## KL-0780-20 KA

### Locking Tool Set, Volvo

Applicable to Volvo 1.6, 1.8, 1.9, 2.0, 2.3, 2.4, 2.5, 2.8, 2.9 and 3.0 litre TwinCam petrol engines as found in: C30, C70, S40, S40 II, S60, S70, S80, V40, V50, V70, V70 II. (Engine codes: B 4164 S3, B 4184 S2, B 4184 S8, B 4184 S9, B 4184 S11, B 4194 T2, B 4204 S2, B 4204 S3, B 4204 T3)

Designed for the locking/positioning of the flywheel as well as of engine shafts such as camshafts and crankshaft. The kit also includes a tool to position the timing belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.



#### Scope of Delivery: KL-0780-20 KA Locking Tool Set, Volvo

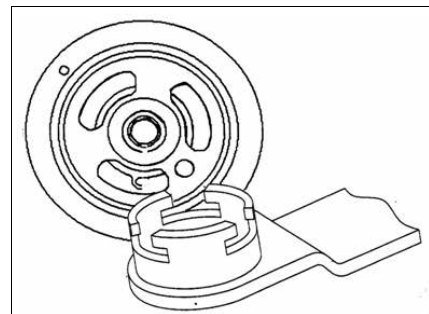
Part No.	Description	Qty
KL-0180-3030	Locking Pin, Ø 3.0mm	1
KL-0280-2202 A	Setting Gauge for Camshafts	1
KL-0680-15 A	Locking Tool for Camshafts	1
KL-1280-221 A	Special Hexagon Socket Key, (waf) 6mm	1
KL-0680-17	Locking Pin for Crankshaft, Ø 5mm	1
KL-0680-18	Locking Pin for Crankshaft, Ø 7.95mm	1
KL-1280-222 A	Locking Pin for Crankshaft	1
KL-0780-2090	Plastic Storage Case	1

## KL-0184-061

### Reaction Wrench, Ford

Applicable to Ford, Mazda, Volvo 1.3, 1.5, 1.6, 1.8, 2.0 and 2.3 litre engines; as installed in Ford Focus/C-Max, Mondeo, S-Max, Galaxy; Mazda 2, 3, 5, 6, CX-7, MX-5; Volvo C30, S40, V50, V70, S80. (Engine codes: B4184S11, B4184S8, B4204S3, B4204S4, L3 Turbo, LF, LF (MZR DISI), MZ-CD 1.6 (Y6), MZR 1.3 (ZJ), MZR 1.5 (ZY), MZR 1.8 (L8), MZR 2.0 (LF), ZJ, ZY)

This tool is designed to counter-hold the crankshaft pulley while loosening and tightening the crankshaft central screw. It is required when replacing timing belts and for engine repairs.



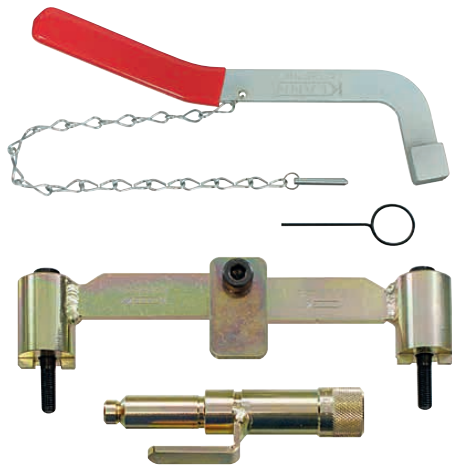
#### Technical Data:

Overall length (of assembled tool):	754mm
Length of extension tube with protective handle:	403mm
Length of base tool:	401mm

#### Scope of Delivery: KL-0184-061 Reaction Wrench, Ford

Part No.	Description	Qty
KL-0184-0610	Reaction Wrench (Base Tool)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0103	Folding Spring Bolt	1





## KL-1280-22 A

### Locking Tool Set for Timing Belt, Renault 2.0 and 2.5

Applicable to Renault and Volvo TwinCam petrol engines.

Renault 2.0 16V (N7Q) and 2.5 20V (N7U) as found in Laguna and Safrane.

Volvo 1.8 16V (B4184 S2/S9), 1.9 T4 (B4194 T2) and 2.0 16V / T (B4204 S2/T3) as found in S40 laund V40.

Designed for the locking/positioning of engine shafts such as camshaft and crankshaft when changing a timing belt or during engine repairs.

#### Scope of Delivery:

#### KL-1280-22 A Locking Tool Set for Timing Belt, Renault 2.0 and 2.5

Part No.	Description	Qty
KL-1280-221 A	Locking Tool for Camshafts	1
KL-1280-222 A	Locking Pin for Crankshaft	1
KL-0180-3019	Retaining Pin for Hydraulic Tensioner Pulley, Ø 1.9mm	1
KL-1280-224 A	Tensioner Spanner with Retaining Pin for Auxiliary Belt	1

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## KL-0780-22 K

### Locking Tool Set, Volvo 3.0, 3.2

Applicable to Volvo 3.0 T6 and 3.2 V6 petrol engines as found in: S60 (from 2011 onwards), S80 II (from 2006 onwards), V60, V70 II (from 2007 onwards), XC60, XC70 II (from 2007 onwards), XC90 (from 2002 onwards).

(Engine codes: B6304T2, B6304T4, B6324S, B6324S2, B6324S4, B6324S5)

Designed for the locking/positioning of camshafts and crankshaft. Also includes a tool to loosen/tighten the central screw of the inlet/exhaust camshaft sprockets. An indispensable tool set when changing a timing chain or performing an engine repair.

#### Scope of Delivery:

#### KL-0780-22 K Locking Tool Set, Volvo 3.0, 3.2

Part No.	Description	Qty
KL-0780-221	Locking Tool for Camshaft	1
KL-0780-222	Locking Tool for Crankshaft	1
KL-0780-2231	Locking Plate	1
KL-0780-2232	Locking Plate	1
KL-4041-3160	Screwdriver Bit Socket T60, 100mm, 1/2"]	1
KL-0780-2290	Plastic Storage Case	1

## KL-0780-21 K

### Locking Tool Set, Volvo 4.4 V8

Applicable to Volvo 4.4 V8 petrol engines as found in S80 (II), XC90.

(Engine code: B 8444 S)

For the locking/positioning of engines shafts such as camshafts and crankshaft. An indispensable tool set when changing a timing chain or performing an engine repair.

#### Scope of Delivery:

#### KL-0780-21 K Locking Tool Set, Volvo 4.4 V8

Part No.	Description	Qty
KL-0780-211	Locking Tool for Crankshaft	1
KL-0780-212	Locking Tool for Camshaft (2 pcs.)	1
KL-0780-2190	Plastic Storage Case	1

## KL-2380-705 K Locking Tool Set, Chrysler

Applicable to Chrysler and LDV vehicles equipped with either a 2.5 or 2.8 CRD engine; e.g. Chrysler Grand Voyager, Voyager and LDV Maxus. (Engine codes: R2516C, R2816C5.05A, R2516L, VM39/40B)

Designed for the locking/positioning of camshafts, crankshaft and timing belt tensioner. The kit also contains the necessary tool for retaining the timing belt on the crankshaft sprocket. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-2380-705 K Locking Tool Set, Chrysler

Part No.	Description	Qty
KL-2380-7051	Locking Tool for Inlet Camshaft	1
KL-2380-7052	Locking Tool for Exhaust Camshaft	1
KL-2380-7053	Locking Tool for Flywheel	1
KL-2380-7054	Holding Tool for Timing Belt	1
KL-2380-7055	Locking Tool for Flywheel	1
KL-2380-7056	Tensioner Pulley Spanner	1
KL-4990-2001	Plastic Storage Box	1
KL-4990-1103	Plastic Storage Case	1

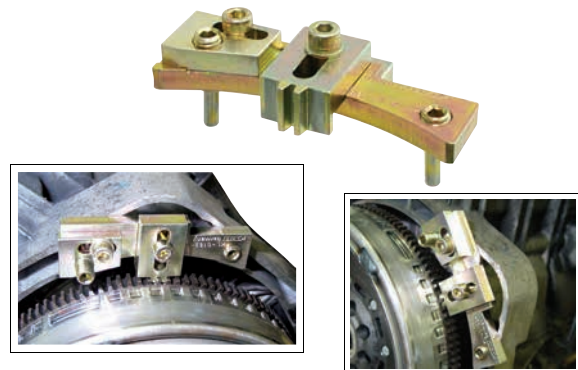


## KL-0182-10 A Flywheel Locking Tool (adjustable)

This tool is designed to lock the flywheel with the gearbox removed. The tool is axially and radially adjustable and, thus, almost universally applicable - simply by using different stud bolts.

### Technical Data:

Bolt Ø:	8.5mm
Bolt distance:	92-107mm



## KL-0110 A Holding Wrench

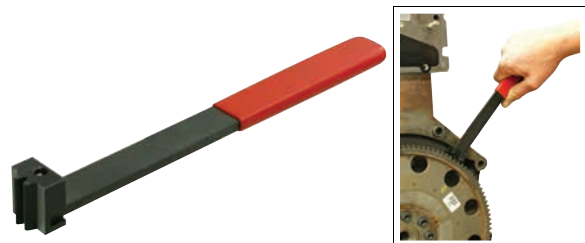
(Universal)

### Universal application.

Used for locking flywheels.

### Technical Data:

Length:	250mm
Weight:	0.5kg



## KL-0220-10 K Fixing Tool Kit, VW Assembly Carrier

Suitable for use on assembly carriers/subframes found on VW-Audi, Seat and Škoda. For example, fitted to Audi A3 (8P), A4 (8E, 8H), TT (8J); VW EOS (1F), Fox (5Z), Golf Plus (1K), Golf V (1K), Jetta (1K), Passat (3C), Passat CC (357), Polo (9N), Scirocco (137), T5 (7J, 7H, 7E, 7F), Touareg (7C), Touran (1T, 9R); Seat Alhambra (71), Altea (5P), AlteaXL (5P), Ibiza / Córdoba (6J), Ibiza / Córdoba (6L), Leon (1P), León (5F), Toledo (5P), Toledo (KG3).

The tools allow for the professional installation/adjustment of assembly carriers (with fastening screws having an M12x1.5 or M14x1.5 thread). Necessary after maintenance work/repairs where the assembly carrier has been loosened/released, for example, after the replacement of silentblobs, wishbone etc.

Scope of Delivery: KL-0220-10 K Fixing Tool Kit, VW Assembly Carrier

Part No.	Description	Qty
KL-0220-101	Fixing Bolt, M12x1.5	4
KL-0220-102	Fixing Bolt, M14x1.5	4
KL-0220-1090	Plastic Storage Case	1



### Technical Data:

Max. tightening torque:	20Nm
Fixing bolt thread (KL-0220-101):	M12x1.5
Fixing bolt thread (KL-0220-102):	M14x1.5
Length:	50mm
Drive:	6mm (hex socket)



## KL-0146-20

(Patented)

### Engine Support Device

**Universally applicable device for supporting engines in vehicles.**

Working on the timing belt side engine mount, for example when changing a timing belt, replacing a water pump etc., is day-to-day work in the garage. Almost every mechanic knows firsthand the problems that can occur when it comes to loosening the side engine mount of transverse-mounted engines. Here, the use of a supporting device, engine crane or engine stand is indispensable. Such devices, however, can make work even more difficult since the engine is no longer properly secured and access will be very limited or sometimes even impossible. The innovative **KL-0146-20** engine support device from GEDORE Automotive now offers the perfect solution to these problems. The special design of the device with its clamping hook assembly featuring large and individually adjustable clamping hooks with wide supporting surfaces, the unique fastening mechanism enabling the engine support to be fixed to the vehicle frame, and the cleverly designed support plate assembly with its adjustable tilting support pad (100 mm) ensure safe and solid support of the engine. This allows the mechanic to conveniently work on the engine from the top as well as from the bottom, with the engine always safely supported and secured against the risk of dropping - even when performing tasks such as turning engine shafts, loosening and tightening fastening screws etc. The clamping hooks are 360° rotatable and can be arranged universally to fit virtually any vehicle width. Once the device clamping hooks have been correctly positioned on the vehicle frame, these can easily be tightened to securely fix the support assembly to the vehicle. This prevents the engine support device from any slipping or dropping. The ingenious **KL-0146-20** engine support device from GEDORE Automotive offers you a maximum of safety and functionality combined with a wide range of application possibilities - without the need for additional accessories such as vehicle-specific adaptors etc.

#### Technical Data:

Max. load capacity:	100-300kg
Overall length:	1,100mm
Clamping hook width:	50mm
Clamping hook clamping range:	approx. 70mm
Max. height offset between clamping hooks:	approx. 90mm
Support plate height adjustment:	120mm
Weight:	16.5kg

#### Scope of Delivery: KL-0146-20 Engine Support Device

Part No.	Description	Qty
KL-0146-202	Clamping Hook Assembly	2
KL-0146-203	Support Plate Assembly	1
KL-0146-2011	Bar	1
KL-0146-2012	Bar (labelled)	1
KL-0146-2013	Spacer Sleeve	2
KL-0146-2014	Hex Screw, M8x95mm	2
KL-0035-0003	Hex Nut, M8	2
KL-0035-0004	Washer, Ø 8mm	2

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## KL-0183-50

(Universal)

(Patented)

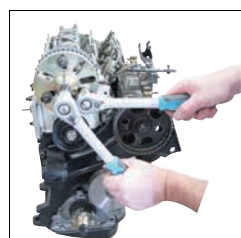
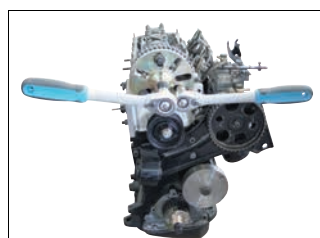
### Timing Belt Sprocket Extractor and Reaction Tool

**Universal application - Two tools in one. The tool can be used for loosening the central fixing screw as well as for removing the sprocket. Suitable for all the perforated timing belt sprockets with a pitch circle diameter of from 70-100mm. Hole diameters should not be less than 20mm.**

The tool is used to hold the pulley in position while loosening/tightening the central fixing screw. It is also designed to prevent the pulley from rotating while removing the sprocket. For this, any standard 1/2" ratchet or 1/2" sliding T-Bar can be used as a holding tool.

#### Scope of Delivery: KL-0183-50 Timing Belt Sprocket Extractor and Reaction Tool

Part No.	Description	Qty
KL-0183-510	Perforated Puller Disc	1
KL-0183-531	Hook, Ø 20mm	3
KL-0183-532	Hook, Ø 26mm	3
KL-0350-0009	Shoulder Nut, M10	3
KL-0183-540	Pressure Unit	1



## KL-0183-51 A (Patented)

### Timing Belt Sprocket Extractor and Reaction Tool with 2 Hooks

Applicable to VW-Audi, Seat, Škoda, Opel/Vauxhall, Ford, BMW, Mercedes, Peugeot, Citroën, Renault, Fiat, Japanese vehicles etc.

Universal application - Two tools in one.

Very useful tool for loosening the central fixing screw and for removing the sprocket. Suitable for all the perforated timing belt sprockets with a pitch circle diameter of from 70-100mm. Hole diameters should not be less than 16.5mm. The tool is used to hold the pulley in position while loosening/tightening the central fixing screw. It is also designed to prevent the pulley from rotating while removing the sprocket. For this, any standard 1/2" ratchet or 1/2" sliding T-Bar can be used as a holding tool.

#### Scope of Delivery:

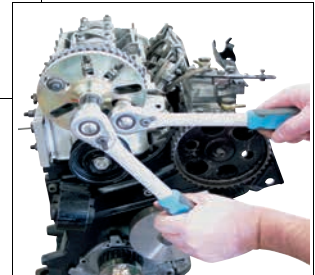
#### KL-0183-51 A Timing Belt Sprocket Extractor and Reaction Tool with 2 Hooks

Part No.	Description	Qty
KL-0183-510	Perforated Puller Disc	1
KL-0183-533	Hook, Ø 16.5mm	2
KL-0350-0009	Shoulder Nut, M10	2
KL-0183-540 A	Pressure Unit	1

#### Accessories:

KL-0183-531 Hook, Ø 20mm

KL-0183-532 Hook, Ø 26mm



## KL-0183-52 (Patented)

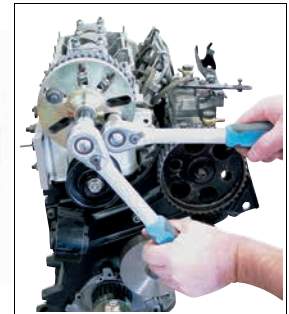
### Timing Belt Sprocket Extractor/Reaction Tool

Applicable to injection pump and timing belt sprockets as found in Nissan, Renault, Dacia and Suzuki 1.5 dCi/DDiS Common Rail Diesel engines. Fitted, e.g., to Renault Clio II, Clio III, Fluence, Kangoo, Kangoo II, Laguna III, Megane II, Megane III, Scenic/Grand Scenic II, Scenic/Grand Scenic III, Logan, Logan MCV, Modus, Modus/Grand Modus II, Twingo II; Dacia Duster, Logan Pick-up, Logan Van/Express; Suzuki Jimny; Nissan Cube, Juke, Kubistar, Micra, Note, NV200, Qashqai, Qashqai 2, Tiida.

Suitable for use on perforated injection pump and timing belt sprockets with a pitch circle diameter of from 70-100mm. The hole diameter should not be less than 16.5mm; also suitable for slotted holes with a width of 15mm. In conjunction with a 1/2" reversible ratchet, the timing belt sprocket extractor/reaction tool is used to hold the injection pump-/ timing belt sprocket in position while loosening/tightening the central fixing screw. It also allows for the removal of the timing belt sprocket from the camshaft/injection pump shaft without risk of damage. An indispensable tool set when changing the coolant pump allowing the user to remove the injection pump sprocket located in front of the pump.

#### Scope of Delivery: KL-0183-52 Timing Belt Sprocket Extractor/Reaction Tool

Part No.	Description	Qty
KL-0183-510	Perforated Puller Disc	1
KL-0183-534	Hook (oval)	2
KL-0183-540 A	Pressure Unit	1
KL-0350-0009	Hex Shoulder Nut, M10	2



(Engine codes: K9K, K9K 262, K9K 266, K9K 299, K9K 700, K9K 702, K9K 704, K9K 706, K9K 710, K9K 712, K9K 714, K9K 716, K9K 716, K9K 718, K9K 722, K9K 724, K9K 728, K9K 729, K9K 732, K9K 740, K9K 750, K9K 752, K9K 760, K9K 762, K9K 764, K9K 766, K9K 768, K9K 770, K9K 772, K9K 774, K9K 780, K9K 782, K9K 790, K9K 792, K9K 794, K9K 796, K9K 800, K9K 802, K9K 804, K9K 806, K9K 808, K9K 830, K9K 832, K9K 834, K9K 836, K9K 837, K9K 838, K9K 842, K9K 846, K9K 884, K9K 892, K9K 894, K9K 896, K9K 898)

## KL-0183-550 (Patented)

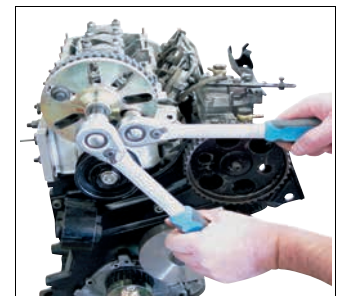
### Upgrade Kit

Required, for example, to hold the injection pump sprocket in position on VW T4, Transporter and LT (with 2.3, 2.4 or 2.5 litre 5-cylinder Diesel engines).

Designed to complement our timing belt sprocket extractors KL-0183-50, KL-0183-51 A and KL-0183-52.

#### Scope of Delivery: KL-0183-550 Upgrade Kit

Part No.	Description	Qty
KL-0183-533	Hook, Ø 16.5mm	2
KL-0183-5404	Pressure Piece	1





## KL-0183-70 K Tool Kit for V-Ribbed Belts

Applicable to BMW 1 Series (E81, E87), 3 Series (E46, E90, E91, E92, E93), 5 Series (E60, E61), 6 Series (E63, E64), 7 Series (E65, E66), X3 (E83), X5 (E53, E70), X6 (E71, E72); Chrysler Voyager III (RG); Citroën C2 (JM\_), C3 (FC\_, HB\_), C4 (LC\_, LA\_, UA\_, UD\_), Jumper; Dacia Logan / MCV; Fiat Doblo (119, 223), Ducato (244), Fiorino, Linea, Palio (178BX), Stilo (192), Strada (178E); Ford C-Max, Fiesta V (JH\_, JD\_), Focus II / C-Max (DA\_, DAW\_), Fusion (JU\_); Mazda 3 (BK12, BK14), 5 (CR19); Peugeot 206 CC (2D), 207 (WA\_, WC\_, WD\_), 307 (3A/C, 3E, 3H), Boxer; Renault Logan (LS\_); Škoda Fabia; Volvo C30, S40 II (MS), V50 (MV); VW Polo (9N\_).

This tool set is indispensable for the quick and easy removal and installation of the newly developed elastic V-ribbed belts. Without the use of this tool, the professional removal and installation of these belts is almost impossible as the belt guide has no tensioning element and, therefore, releasing the tension on the belt is not possible.

Scope of Delivery: KL-0183-70 K Tool Kit for V-Ribbed Belts

Part No.	Description	Qty
KL-0183-701	V-Ribbed Belt Removal Tool	1
KL-0183-702	V-Ribbed Belt Installation Tool	1
KL-0183-7090	Plastic Storage Case	1



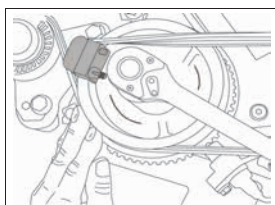
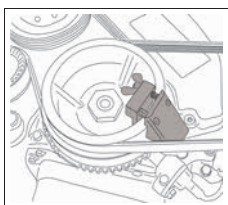
## KL-0183-71 K Tool Kit for Elastic V-Ribbed Belts

Applicable to BMW, Ford, Mazda, Volvo etc; e.g. BMW 3 Series E90, X3 E83; Ford Focus 1.4 16V (04-12), Focus C-Max 1.6 16V (2004-12), Fiesta 1.25 16V and 1.4 16V (2002-08), Fusion 1.6 16V (2002-08); Mazda 2 1.2 16V (2002-06), Volvo C30, S40, V50 1.6 16V (2005 onwards); engine codes: BMW: M47, M57; Ford: ASDA\*, ASDB\*, HWDA\*, HWDB\*, HXDA\*, HXDB\*, SHDA\*, SHDB\*, SHDC\*, SIDA\*, F8JA, F8JB, FUJA, FUJB, FXJA, FXJB, M7JA, M7JB, SPJA, SPJC, FYJA, FYJB; Mazda: FUJA, FUJB, F8JA, F8JB, FXJA, FXJB, FYJA; Volvo: B4164 S3. (\*with double pulley on the crankshaft on which the belt needs to be fitted via the water pump)

This tool set is indispensable for the quick and easy removal and installation of elastic V-ribbed belts. Without the use of this tool, the professional removal and installation of these belts is almost impossible as the belt guide has no tensioning element and, therefore, releasing the tension on the belt is not possible.

Scope of Delivery: KL-0183-71 K Tool Kit for Elastic V-Ribbed Belts

Part No.	Description	Qty
KL-0183-711	Belt Installation Tool, Ford, Volvo	1
KL-0183-712	Belt Guide Tool, Ford, Volvo	1
KL-0183-701	V-Ribbed Belt Removal Tool	1
KL-0183-702	V-Ribbed Belt Installation Tool	1
KL-0183-7190	Plastic Storage Case	1



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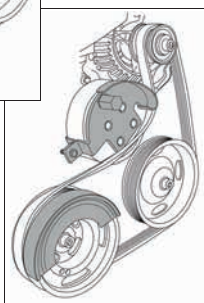
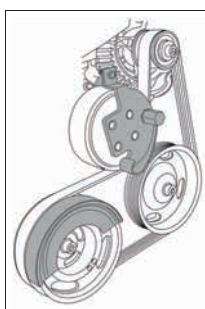
## KL-0183-710 K Tool Kit for Elastic V-Ribbed Belts

Applicable to vehicles equipped with either a 1.4 or 1.6 litre Ford engine with double pulley on the crankshaft on which the belt needs to be fitted via the water pump; such as Ford Focus, Focus C-Max; Volvo C30, S40, V50. (Engine codes: ASDA, ASDB, B4164S3, HWDA, HWDB, HXDA, HXDB, SHDA, SHDB, SHDC, SIDA)

This tool set is designed for the quick and easy installation of elastic V-ribbed belts.

Scope of Delivery: KL-0183-710 K Tool Kit for Elastic V-Ribbed Belts

Part No.	Description	Qty
KL-0183-711	Belt Installation Tool, Ford, Volvo	1
KL-0183-712	Belt Guide Tool, Ford, Volvo	1
KL-0183-7190	Plastic Storage Case	1



## KL-0284-184 K Alternator and Belt Tool Set, in a Plastic Storage Case

Universally applicable, e.g. to: VW-Audi, Seat, Škoda, BMW, Alfa Romeo, Dacia, Fiat, Ford, Mazda, Mercedes, Peugeot, Porsche, Renault, Toyota, Volvo, Opel/Vauxhall etc.

The **KL-0284-184 K** alternator and belt tool set allows for the easy and professional loosening/tightening of hard-to-access screws on fan clutches, pulleys/tensioner pulleys. The kit also includes tools for the removal/installation of overrunning alternator pulleys. An indispensable tool set, for example, when changing an alternator or pulley, as well as when removing/installing elastic ribbed V-belts.

### Scope of Delivery:

#### KL-0284-184 K Alternator and Belt Tool Set, in a Plastic Storage Case

Part No.	Description	Qty
KL-0284-184 E	Alternator and Belt Tool Set, in a Foam Insert	1
KL-0186-1419-3	Foam Lid Insert, Width 40mm	1
KL-0186-1419-1	Plastic Storage Case	1

### Scope of Delivery:

#### KL-0284-184 E Alternator and Belt Tool Set, in a Foam Insert

Part No.	Description	Qty
KL-0284-1902	Union Nut (Multi-Tooth), 33 Teeth	1
KL-0284-2702	Union Nut, Size (waf) 28mm	1
KL-0284-4202	Union Nut (Multi-Tooth), 32 Teeth	1
KL-0284-2601	Screwdriver Bit Socket, Size (waf) 10mm	1
KL-0284-2811	Screwdriver Bit Socket, Size (waf) 6mm	1
KL-0284-2821	Screwdriver Bit Socket, Size (waf) 8mm	1
KL-0284-2831	Screwdriver Bit Socket, Size (waf) 10mm	1
KL-0284-40	Alternator Combination Socket, T50	1
KL-0284-41	Alternator Combination Socket, XZN-M10	1
KL-0284-3901	Union Nut, Size (waf) 17mm	1
KL-0284-3902	Union Nut with 3 Pins	1
KL-0284-2801	Screwdriver Bit Socket, XZN-M10	1
KL-0284-2901	Screwdriver Bit Socket, T50	1
KL-0366-15 A	Special Wrench Set	1
KL-0149-131	Pin-Type Face Spanner, 14-100mm, 5 Pins	1
KL-0183-701	V-Ribbed Belt Removal Tool	1
KL-0183-702	V-Ribbed Belt Installation Tool	1
KL-0183-711	Belt Installation Tool, Ford, Volvo	1
KL-0183-712	Belt Guide Tool, Ford, Volvo	1
KL-0284-1849-2	Foam Insert	1



KL-0284-184 E

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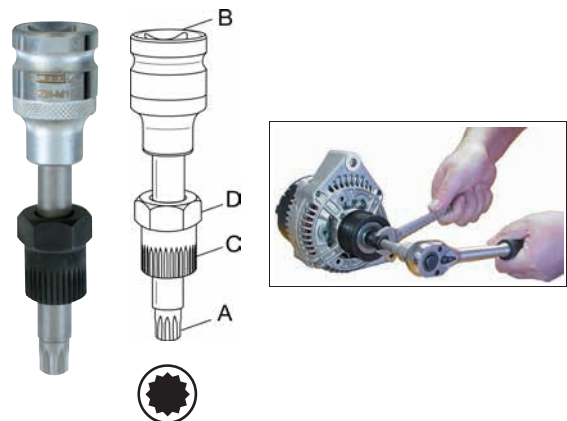
## KL-0284-18 Alternator Combination Socket

Suitable for use on alternators with overrunning alternator pulley. Applications: VW-Audi, BMW, Ford, Škoda, Mercedes, Opel/Vauxhall, Porsche, Renault etc.

This two-part alternator combination socket allows for the easy removal and installation of the overrunning alternator pulley when replacing an alternator or a pulley. Since the pulley cannot be counter-held from the outside while slackening or tightening the central nut, the XZN socket insert bit (10mm) is needed to lock the pulley shaft during the loosening process.

### Technical Data:

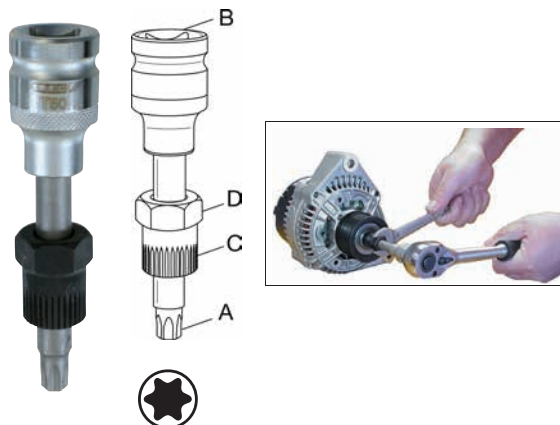
Socket Insert (A):	XZN - M10
Drive (B):	1/2" square
Union nut with 33 teeth, outer Ø (C):	19.5mm
Drive (Union nut) (D):	21mm
Length:	110mm
Weight:	156g



### Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet





## KL-0284-19

### Alternator Combination Socket

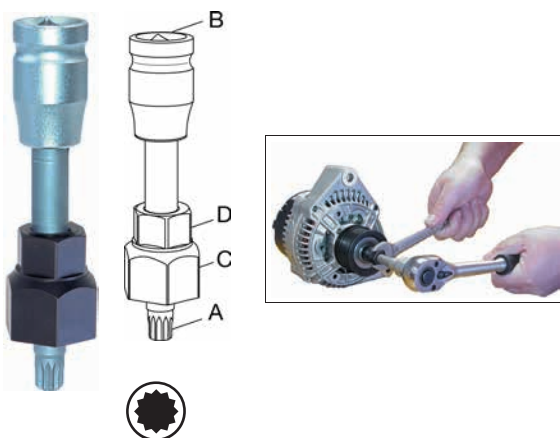
**For example, suitable for use on BMW 1 Series (F20); Mercedes A-Class, C-Class; Renault 1.9 DTI.**

This two-part alternator combination socket allows for the easy removal and installation of the overrunning alternator pulley when replacing an alternator or a pulley. Since the pulley cannot be counter-held from the outside while slackening or tightening the central nut, the Torx® T50 socket insert bit is needed to counter-hold the pulley shaft during the loosening process.

#### Technical Data:

Socket Insert (A):	Torx® T50
Drive (Socket Insert) (B):	1/2"
Union nut with 33 teeth, outer Ø (C):	19.5mm
Drive (Union nut) (D):	21mm
Length:	110mm
Weight:	156g

\* = reg. trademark of Acument Intellectual Properties, LLC. USA



## KL-0284-37

### Alternator Combination Socket

**Suitable for use on the rubber-mounted alternator pulleys installed in Renault and Dacia 1.4 and 1.6 litre petrol engines.**

**Applications: Renault Clio, Laguna, Mégane, Scénic, and Dacia Logan.**

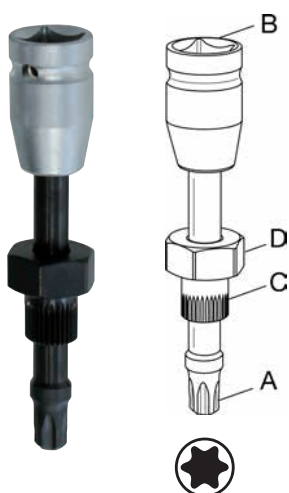
This two-part alternator combination socket allows for the easy removal and installation of the overrunning alternator pulley when replacing an alternator or a pulley.

Since the pulley cannot be counter-held from the outside while slackening or tightening the central nut, the pulley shaft needs to be locked by means of the 10mm XZN multi-spline insert bit during the loosening process.

#### Technical Data:

Socket Insert (A):	XZN - M10
Drive (Socket Insert) (B):	1/2"
Union nut with hexagon (C):	28mm
Drive (Union nut) (D):	21mm
Length:	110mm
Weight:	110g

6



## KL-0284-40

### Alternator Combination Socket, T50

**Suitable for use on alternators with overrunning alternator pulley, as found in: Opel/Vauxhall, Fiat, Alfa.**

This alternator combination socket allows for the easy removal and installation of the overrunning alternator pulley when replacing an alternator or a pulley.

Since the pulley cannot be counter-held from the outside while loosening or tightening the central nut, the pulley shafts need to be locked by means of the Torx® T50 socket insert bit during the loosening process.

#### Technical Data:

Socket insert (A):	Torx® T50
Drive (Socket insert) (B):	1/2"
Union nut with 31 teeth, outer Ø (C):	14mm
Drive (Union nut) (D):	21mm
Length:	110mm
Weight:	140g

\* = reg. trademark of Acument Intellectual Properties, LLC. USA

#### Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



DMK 200 CODE:2641240 - Torque Wrench Dremaster 40-200Nm



## KL-0284-42

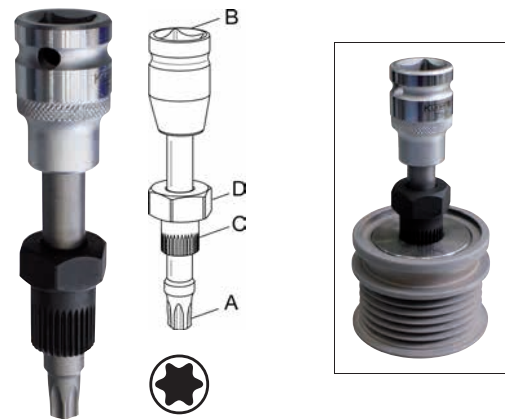
### Alternator Combination Socket, T50

Suitable for use on alternators with overrunning alternator pulley, as found in: **VW-Audi, Seat, Škoda etc.**

This alternator combination socket allows for the easy removal and installation of the overrunning alternator pulley when replacing an alternator or a pulley. Since the pulley cannot be counter-held from the outside while loosening or tightening the central nut, the pulley shaft needs to be locked by means of the Torx® T50 socket insert bit during the loosening process.

**Technical Data:**

Socket insert (A):	Torx® T50
Drive (Socket insert) (B):	1/2"
Union nut with 32 teeth outer Ø (C):	17mm
Drive (Union nut) (D):	21mm
Length (G):	110mm



## KL-0284-41

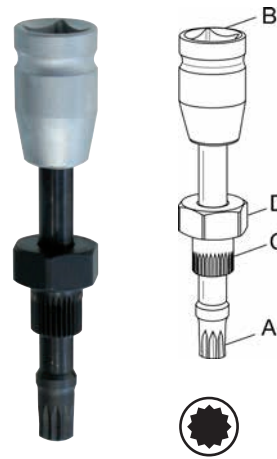
### Alternator Combination Socket, XZN-M10

Suitable for use on alternators with overrunning alternator pulley, as found in: **Opel/Vauxhall, Fiat, Alfa.**

This alternator combination socket is designed for the removal and installation of the overrunning alternator pulley when replacing an alternator or a pulley. Since the pulley cannot be counter-held from the outside while loosening or tightening the central nut, the pulley shaft needs to be locked by means of the XZN-M10 socket insert bit during the loosening process.

**Technical Data:**

Socket insert (A):	XZN-M10
Drive (Socket insert) (B):	1/2"
Union nut with 31 teeth outer Ø (C):	14mm
Drive (Union nut) (D):	21mm
Length:	110mm
Weight:	140g



## KL-0284-28

### Alternator Combination Socket

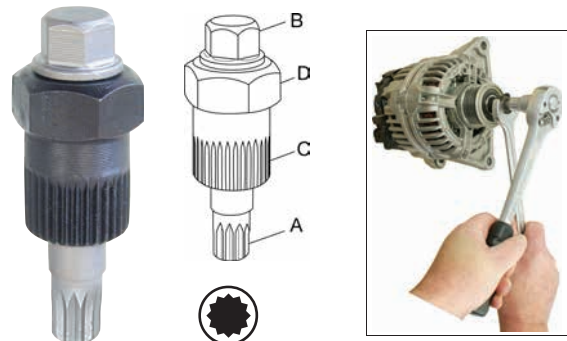
Suitable for use on alternators with overrunning alternator pulley, as found in **VW-Audi, BMW, Ford, Škoda, Mercedes, Opel/Vauxhall, Porsche, Renault, etc.**

This short two-part alternator combination socket allows for the easy removal and installation of a overrunning alternator pulley in-situ on the vehicle without the need for removing the alternator.

Since the pulley cannot be counter-held from the outside while slackening or tightening the central nut, the pulley shaft needs to be locked by means of the 10mm XZN multi-spline insert during the loosening process.

**Technical Data:**

Socket insert (A):	XZN-M10
Drive Size (waf) (B):	12mm
Union nut with 33 teeth, outer Ø (C):	19.5mm
Drive (Union nut) (D):	21mm
Length:	64mm
Weight:	95g



**Accessories (on demand):**

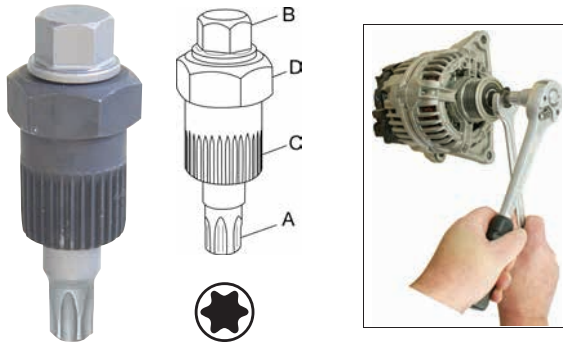
7 R - Combination Ratchet Spanner



4549-05 CODE:1545140 - Torque Wrench TORCOFIX K 3/8" 5-50Nm







## KL-0284-29

### Alternator Combination Socket

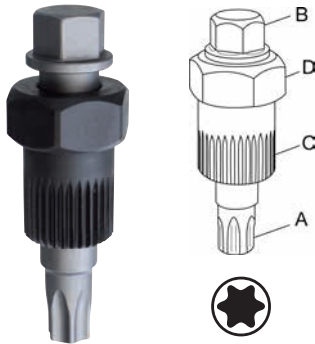
**For example, suitable for use on BMW 1 Series (F20), X3 (F25); Mercedes A-Class, Renault 1.9 DTI.**

This short two-part alternator combination socket allows for the easy removal and installation of an overrunning alternator pulley in situ on the vehicle without the need for removing the alternator. Since the pulley cannot be locked from the outside while loosening or tightening the central nut, the pulley shaft needs to be counter-held means of the Torx® T50 socket insert bit during the loosening process.

#### Technical Data:

Socket Insert (A):	Torx® T50
Drive (Socket Insert) (B):	12mm
Union nut with 33 teeth, outer Ø (C):	19.5mm
Drive (Union nut) (D):	21mm
Length:	64mm
Weight:	95g

\* = reg. trademark of Acument Intellectual Properties, LLC. USA



## KL-0284-44

### Alternator Combination Socket, T50

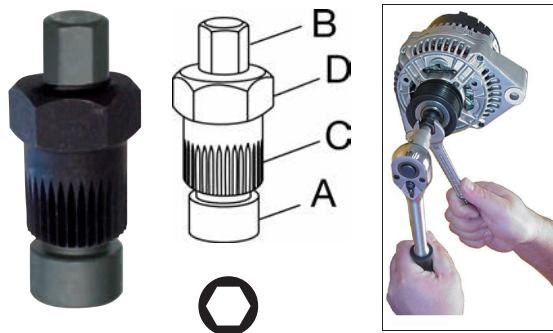
**Suitable for use on alternators with overrunning alternator pulley, as found in: VW-Audi, Seat, Škoda etc.**

This alternator combination socket is designed the removal and installation of the overrunning alternator pulley when replacing an alternator or a pulley. Since the pulley cannot be counter-held from the outside while loosening or tightening the central nut, the pulley shaft needs to be locked by means of the Torx® T50 socket during the loosening process.

#### Technical Data:

Socket bit insert (A):	Torx® T50
Drive (socket bit insert) (B):	waf 12mm
Union nut with 32 teeth, outer Ø (C):	17mm
Drive (Union nut) (D):	21mm
Length (G):	64mm

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## KL-0284-26

### Alternator Combination Socket (waf 10mm)

**Suitable for use on alternators with overrunning alternator pulley as found on Volvo etc.**

This tool is required for the removal and replacement of overrunning alternator pulleys in situ on the vehicle. No need to remove the alternator from the vehicle using this socket. Since the pulley cannot be counter-held from the outside while slackening or tightening the central nut, the socket insert (waf 10mm) is needed to lock the pulley shaft during the loosening process.

#### Technical Data:

Socket insert (external hexagon) (A):	10mm
Drive (Socket insert) (B):	10mm
Union nut with 33 teeth, outer Ø (C):	Ø 19.5mm
Drive (Union nut) (D):	21mm
Length:	49mm
Weight:	95g

#### Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



DMK 200 CODE:2641240 - Torque Wrench Dremaster 40-200Nm



7 R - Combination Ratchet Spanner



4549-05 CODE:1545140 - Torque Wrench TORCOFIX K 3/8" 5-50Nm



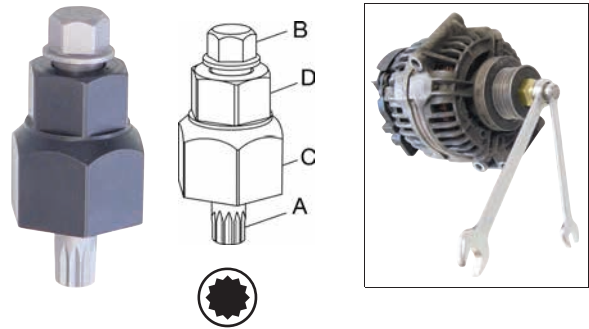
## KL-0284-27 Alternator Combination Socket

**Suitable for use on the rubber-mounted alternator pulleys installed in Renault and Dacia 1.4 and 1.6 litre petrol engines; as found on Renault Clio, Laguna, Megane, Scenic and Dacia Logan.**

This short two-part alternator combination socket allows for the easy removal and installation of an overrunning alternator pulley in situ on the vehicle without the need for removing the alternator. Since the pulley cannot be counter-held from the outside while slackening or tightening the central nut, the 10mm XZN multi-spline insert is needed to lock the pulley shaft during the loosening process.

**Technical Data:**

Socket Insert (A):	XZN-M10
Drive (B):	12mm
Hexagonal Union Nut (C):	28mm
Drive (Union Nut) (D):	21mm
Length:	64mm
Weight:	95g



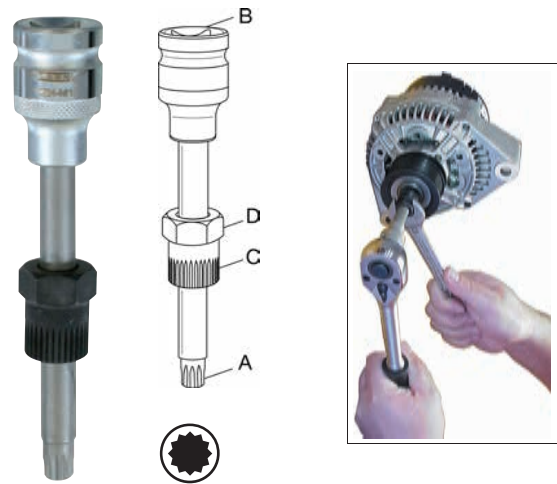
## KL-0284-38 Alternator Combination Socket

**Suitable for use on alternators with overrunning alternator pulleys as found on: VW-Audi, BMW, Ford, Škoda, Mercedes, Opel/Vauxhall, Porsche, Renault etc. Essential tool for pulleys that are hard to reach.**

This two-part alternator combination socket allows for the easy removal and installation of an overrunning alternator pulley in situ on the vehicle without the need for removing the alternator. Since the pulley cannot be counter-held from the outside while slackening or tightening the central nut, the 10mm XZN multi-spline insert is needed to lock the pulley shaft during the loosening process.

**Technical Data:**

Socket Insert (A):	XZN-M10
Drive (Socket Insert) (B):	1/2"
Union nut with 33 teeth, outer Ø (C):	19.5mm
Drive (Union nut) (D):	21mm
Length:	140mm
Weight:	156g



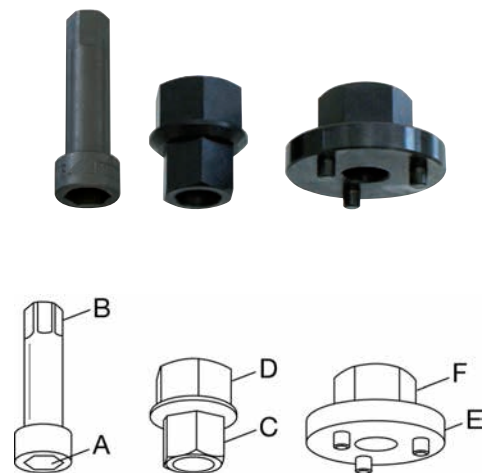
## KL-0284-39 Alternator Combination Socket

**Suitable for use on alternators with overrunning alternator pulley as found on: Volvo C30, Toyota, etc.**

This three-part alternator combination socket allows for the easy removal and installation of the overrunning alternator pulley when replacing an alternator or a pulley. Since the pulley cannot be counter-held from the outside while loosening or tightening the central nut, the socket insert bit (waf 10mm) is needed to lock the pulley shaft during the loosening process.

**Technical Data:**

Socket (external hexagon) (A):	10mm
Drive (Socket) (B):	10mm
Union nut (C):	17mm
Drive (union nut) (D):	21mm
Union nut with 3 pins (E):	21mm
Drive (union nut) (F):	21mm
Overall length	49mm



**Scope of Delivery: KL-0284-39 Alternator Combination Socket, Size (waf) 10mm**

Part No.	Description	Qty
KL-0284-3901	Union Nut, Size (waf) 17mm	1
KL-0284-3902	Union Nut, with 3 Pins	1
KL-0284-2601	Screwdriver Bit Socket, Size (waf) 10mm	1



## KL-0284-281

### Alternator Combination Socket

**Suitable for use on alternators with overrunning alternator pulley.**

This socket allows for the removal and installation of overrunning alternator pulleys in situ on the vehicle without the need for removing the alternator.

#### Technical Data:

Socket insert (internal hexagon):	6mm
Drive (socket insert):	12mm
Union nut with 33 teeth, outer Ø:	19.5mm
Drive (union nut):	21mm
Length:	64mm
Weight:	95g



## KL-0284-43

### Alternator Combination Socket

**Suitable for alternators with overrunning alternator pulley, as found in: VW-Audi, Seat, Škoda etc.**

This alternator combination socket is designed for the removal and installation of the overrunning alternator pulley when replacing an alternator or a pulley. Since the pulley cannot be counter-held from the outside while loosening or tightening the central nut, the pulley shaft needs to be locked by means of the 8mm hexagon socket during the loosening process.

#### Technical Data:

Socket insert (internal hexagon) (A):	8mm
Drive (Socket insert) (B):	12mm waf
Union nut with 32 teeth outer Ø (C):	17mm
Drive (Union nut) (D):	21mm
Length (G):	64mm

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## KL-0284-282

### Alternator Combination Socket

**Suitable for use on alternators with overrunning alternator pulley.**

This socket allows for the removal and installation of overrunning alternator pulleys in situ on the vehicle without the need for removing the alternator.

#### Technical Data:

Socket insert (internal hexagon):	8mm
Drive (socket insert):	12mm
Union nut with 33 teeth, outer Ø:	19.5mm
Drive (union nut):	21mm
Length:	64mm
Weight:	95g



## KL-0284-283

### Alternator Combination Socket

**Suitable for use on alternators with overrunning alternator pulley.**

This socket allows for the removal and installation of overrunning alternator pulleys in situ on the vehicle without the need for removing the alternator.

#### Technical Data:

Socket insert (internal hexagon):	10mm
Drive (socket insert):	12mm
Union nut with 33 teeth, outer Ø:	19.5mm
Drive (union nut):	21mm
Length:	64mm
Weight:	95g

## KL-0183-31.. V-Ribbed Belt Tensioner Tools

This tool is required for pre-tensioning the auxiliary belt tensioner when removing and installing the belt in situ on the vehicle. Particularly suitable for use in confined spaces.

### KL-0183-3110 V-Ribbed Belt Tensioner Tool E10

**Universal application.**

**Technical Data:**

Size:	Torx® E10
Length:	550mm
Weight:	420g



### KL-0183-3114 V-Ribbed Belt Tensioner Tool E14

**Tool is universally applicable, for example, to Opel/Vauxhall 1.0 12V, 1.2 and 1.4 16V TwinCam petrol engines.**

**Technical Data:**

Size:	Torx® E14
Length:	550mm
Weight:	420g



### KL-0183-3118 V-Ribbed Belt Tensioner Tool E18

**Tool is universally applicable, for example, to Vauxhall/Opel 1.0 12V, 1.2 and 1.4 16V TwinCam petrol engines.**

**Technical Data:**

Size:	Torx® E18
Length:	550mm
Weight:	420g

Torx® = registered trademark of Acument Intellectual Properties, LLC. USA

## KL-0183-2 Wrench Set

**Universal application.**

Consists of:

**KL-0183-20 Special Socket Wrench with Socket Set**

Indispensable tools when removing and replacing V-belts and timing belts that are tensioned via an automatic tensioner pulley. The socket wrench set **KL-0183-20** enables the spring-loaded tensioner pulley to be tensioned and, as a result, the tension on the V-belt or on the timing belt to be released. This tool can be used for hard-to-access areas where ratchets and spanners will not reach. Suitable for tensioner pulleys with 13mm, 15mm, 16mm, 18mm hex and both 3/8" and 1/2" square drive sizes.

**KL-0183-21 Belt Mounting Tool**

This tool allows for the easy and trouble-free positioning of a V-ribbed belt on the pulleys. Specially designed for use in confined spaces.

**Scope of Delivery: KL-0183-2 Wrench Set**

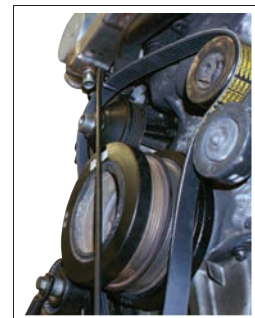
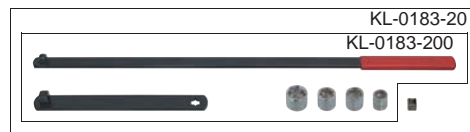
Part No.	Description	Qty
KL-0183-20	Special Socket Wrench with Socket Set	1
KL-0183-21	Belt Mounting Tool	1

**Scope of Delivery: KL-0183-20 Special Socket Wrench with Socket Set**

Part No.	Description	Qty
KL-0183-200	Special Socket Wrench with Socket Set	1
KL-0183-2003	Adaptor 3/8" to 1/2"	1

**Scope of Delivery: KL-0183-200 Special Socket Wrench with Socket Set**

Part No.	Description	Qty
KL-0183-2001	Wrench, 580mm long, with 3/8" drive	1
KL-0183-2002	Extension, 230mm long mit 3/8" drive	1
KL-0183-2013	Socket with Hexagon, waf 13mm	1
KL-0183-2015	Socket with Hexagon, waf 15mm	1
KL-0183-2016	Socket with Hexagon, waf 16mm	1
KL-0183-2018	Socket with Hexagon, waf 18mm	1



**Technical Data KL-0183-20 / KL-0183-200:**

Weight:	1.2kg
Length of wrench:	580mm
Length of extension:	230mm
Drive:	3/8"



### Technical Data:

Length:	450mm
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### Scope of Delivery:

#### KL-0366-15 Special Wrench Set

Part No.	Description	Qty
KL-0366-100	Special Wrench, 8mm drive	1
KL-0366-10	Hexagon Socket Insert, 10mm	1
KL-0366-20	Hexagon Socket Insert, 8mm	1
KL-0366-30	Torx® Insert, T45	1
KL-0366-111	Torx® Insert, T60	1
KL-0366-121	Torx® Insert, T50	1
KL-0366-131	Torx® Insert, T60x40mm	1

® = reg. trademark of Acument Intellectual Properties, LLC. USA

## KL-0366-15 A Special Wrench Set

### Universal application.

Designed to loosen and tighten hard-to-reach screws on fan clutch, pulley, tensioner etc.

### Application examples:

Use wrench in conjunction with the **KL-0366-10** hexagon socket insert 10mm for the Mercedes engines M102, M103, OM601, OM602, OM603, OM605 and OM606. For loosening the screws on compressor pulleys.

Use wrench in conjunction with the **KL-0366-20** hexagon socket insert 8mm for the Mercedes engines M102, M103, OM601, OM602, OM603, OM605 and OM606. For loosening and tightening the fan clutch and pulley at the water pump.

Use wrench in conjunction with the **KL-0366-30** Torx® socket insert T45 for the Renault 2.2 Diesel engines (G8T), e.g. Espace, Laguna, Safrane etc. When removing and installing a V-belt, the automatic tensioner pulley needs to be tensioned by means of the special wrench so as to release the tension on the V-belt.

Use wrench in conjunction with the **KL-0366-111** Torx® socket insert T60 for the BMW 5-Series (E60) 2.0 (M54) petrol engines and Mercedes C-Class (W203) 1.8 (OM271) petrol engines etc.

When removing and installing a V-ribbed belt, the automatic tensioner pulley needs to be tensioned by means of the special wrench so as to release the tension on the V-ribbed belt.

Use wrench in conjunction with the **KL-0366-121** Torx® socket insert T50 for the Renault 1.4 and 1.6 TwinCam petrol engines (engine code: K4J, K4M) as found in: Clio III, Megane / Scenic II, Laguna II, Modus and Kangoo.

For removing and installing the idler pulley, for example, when replacing a timing belt or performing an engine repair.

Use wrench in conjunction with the **KL-0366-131** Torx® socket insert T60x40mm for the VW-Audi 2.7 and 3.0 V6 TDI Diesel engines, e.g. Audi A4, A5, A6, A8, Q5 and Q7; VW Phaeton and Touareg.

For removing and installing the idler pulley, for example, when replacing a timing belt or performing an engine repair.

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## KL-0366-4 Pulley Spinning Tool

**Applicable to Mercedes, VW-Audi, BMW, Ford, Opel/Vauxhall, Peugeot, Renault, Rover, Volvo, Japanese passenger cars etc.**

Used for turning the engine. The tool can be adjusted to different pulley sizes.

### Technical Data:

Length:	325mm
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### Attention:

The **KL-0366-4** is **not** designed to counter-hold shafts.



## KL-0184-011 E Counter-Holding Tool Kit, in a Foam Insert

Universally applicable, e.g. to: VW-Audi, Seat, Škoda 1.2, 1.4, 1.6, 1.8, 2.0, 2.3, 2.4, 2.5, 2.8, 3.2, 3.6, 4.0, 6.0; Opel/Vauxhall, Fiat, Alfa Romeo 2.2 16V and Ford, Mazda, Volvo 1.3, 1.5, 1.6, 1.8, 2.0, 2.3 litre petrol and Diesel engines respectively. (Engine codes: VW-Audi, Seat, Škoda: AFK, AGZ, AHW, AJA, APE, AQN, AQQ, ARC, ARR, ASY, ATN, AUA, AUB, AUE, AUS, AVY, AWY, AXP, AXU, AXZ, AYL, AYT, AZD, AZQ, AZZ, BAA, BAD, BAG, BAN, BAP, BBM, BBY, BBZ, BCA, BCB, BDB, BDE, BDL, BDM, BDN, BDP, BFH, BHE, BHK, BHL, BHT, BJJ, BJK, BJL, BJM, BJN, BJS, BKG, BKJ, BKK, BKL, BKY, BKY, BLF, BLG, BLN, BLP, BMD, BME, BMJ, BML, BMV, BMX, BMY, BRJ, BRK, BRN, BRP, BSB, BTE, BTS, BTT, BUB, BUD, BUD, BWK, BWS, BXW, BYT, BZB, BZG, CABA, CABB, CABD, CAVA, CAVB, CAVC, CAVD, CAVE, CAVF, CAVG, CAWA, CAWB, CAXA, CAXC, CBFA, CBRA, CBZA, CBZB, CCTA, CCZA, CCZB, CCZC, CDA, CDAB, CDGA, CDHA, CDHB, CDNB, CDNC, CDND, CEBA, CEBB, CECA, CECB, CESA, CETA, CFKA, CGGA, CGGB, CGPA, CGPB, CGYA, CHFA, CHFB, CKMA, CMAA; Opel/Vauxhall, Fiat, Alfa Romeo: Z22SE, Z22YH, 194A1.000, 939A5.000; Ford, Mazda, Volvo: B4184S11, B4184S8, B4204S3, B4204S4, L3 Turbo, LF, LF (MZR DISI), MZ-CD 1.6 (Y6), MZR 1.3 (ZJ), MZR 1.5 (ZY), MZR 1.8 (L8), MZR 2.0 (LF), ZJ, ZY)

The **KL-0184-011 E** counter-holding tool kit is needed to counter-hold crankshaft pulleys, as well as timing belt sprockets/crankshaft sprockets while loosening/tightening the crankshaft/camshaft central screw.

The special **KL-0184-0119** foam insert is designed to keep the tools of the **KL-0184-011 E** counter-holding tool kit always properly organised and well protected in the **KL-4999-121** workshop trolley. Thanks to this ingenious tool management system, tools can be found quickly and easily and missing tools identified at a glance. As a result, repairs can be carried out more efficiently - saving you time and money. The foam inserts are provided with specifically tool-shaped spaces to ensure that tools are safely stored and can be taken out and put back in place with ease.



### Scope of Delivery: KL-0184-011 E Counter-Holding Tool Kit, in a Foam Insert

Part No.	Description	Qty
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0102	Extension Tube	3
KL-0184-0103	Folding Spring Bolt	4
KL-0184-0210	Counter-Holding Tool (Base Tool with Adaptor)	1
KL-0184-0220	Counter-Holding Tool (Base Tool)	1
KL-0184-0230	Counter-Holding Tool (Base Tool)	1
KL-0184-0240	Counter-Holding Tool (Base Tool)	1
KL-0184-0250	Counter-Holding Tool (Base Tool)	1
KL-0184-0410	Counter-Holding Tool (Base Tool)	1
KL-0184-0610	Counter-Holding Tool (Base Tool)	1
KL-0282-35	Counter-Holding Tool (adjustable)	1
KL-0282-311	Set of Bolts, Ø 18mm	1
KL-0282-312	Set of Bolts, Ø 7.5mm	1
KL-0282-313	Set of Bolts, Ø 6mm	1
KL-0184-0119	Foam Insert (without tools)	1

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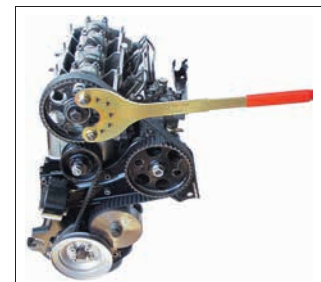
## KL-0282-31 Reaction Wrench (420mm long, adjustable)

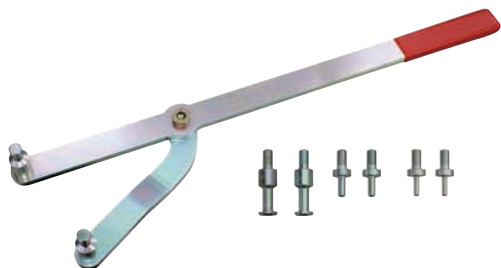
Suitable for use on perforated timing belt sprockets with a hole Ø not smaller than 12mm, as found in VW-Audi, Seat, Fiat, Ford, Opel/Vauxhall, Peugeot, Renault, Citroën, Rover, Volvo, Isuzu, Japanese vehicles, etc.

With interchangeable pins and different hole pitches. Designed to prevent timing belt sprockets on camshafts, injection pumps, etc. from rotating; for example, when loosening the central fastening screw. Due to the different pin Ø and hole pitches, this wrench is almost universal in its range of application.

### Technical Data:

Pitch between pins:	45-75mm
Pin Ø:	12mm and 16mm
Pin height:	61mm
Overall tool length:	420mm





## KL-0282-35 B

### Reaction Wrench Set (470mm long, adjustable)

Universally suitable for use on perforated timing belt sprockets with a hole  $\varnothing$  not smaller than 6.5mm as found in: VW-Audi, Seat, Škoda, Alfa, Fiat, Lancia, Dacia, MG, Nissan, Ford, Opel/Vauxhall, Peugeot, Renault, Citroën, Rover, Volvo, Suzuki, Isuzu, Japanese vehicles, etc.

Designed to prevent timing belt sprockets on camshafts, injection pumps, etc. from rotating, for example, when loosening/tightening the central fastening bolt. Thanks to the different interchangeable pins and the adjustable lever allowing for variable adjustments to hole diameters and pitches, this tool is nearly universally applicable.

#### Technical Data:

Pitch between pins:	from 14-130mm
Pin $\varnothing$ :	6mm, 7.5mm, 12mm, 18mm
Pin height:	25mm/42mm
Overall tool length:	470mm

#### Scope of Delivery: KL-0282-35 B Reaction Wrench Set (470mm long, adjustable)

Part No.	Description	Qty
KL-0282-35	Reaction Wrench (adjustable)	1
KL-0282-311	Set of Pins, $\varnothing$ 18mm	1
KL-0282-312	Set of Pins, $\varnothing$ 7.5mm	1
KL-0282-313	Set of Pins, $\varnothing$ 6mm	1

## KL-0184-022

### Counter-Holding Tool, VW

#### Universal application.

Essential tool for the VW-Audi, Seat, and Škoda 1.2, 1.4 and 1.6 litre petrol engines with 2- or 4-valve technology as well as for Škoda 1.9 SDI Diesel engines. Installed in: VW Beetle, Bora, Caddy/Caddy Maxi, Eos, Fox, Golf, Golf Plus, Golf VI Cabrio, Jetta, Lupo, Passat, Polo, Scirocco, Sharan, Tiguan, Touran; Audi A1, A2, A3, A3 Convertible; Seat Alhambra, Altea/Altea XL, Arosa, Cordoba, Ibiza, Inca, Leon, Toledo; Škoda Fabia, Fabia II, Octavia II, Octavia/Octavia Tour, Praktik, Roomster, Superb II, Yeti.

(Motorcode: AFK, AHW, APE, AQQ, ARR, ASY, AUA, AUB, AUS, AVY, AWY, AXP, AXU, AZD, AZQ, BAD, BAG, BBM, BBY, BBZ, BCA, BCB, BKG, BKY, BLF, BLG, BLN, BLP, BMD, BME, BMY, BTS, BUD, BWK, BXW, BZG, CAVA, CAVB, CAVC, CAVD, CAVE, CAVF, CAVG, CAXA, CAXC, CBZA, CBZB, CDGA, CGGA, CGGB, CGPA, CGPB, CHFA, CHFB, CKMA, CMAA)

This tool is designed to counter-hold pulleys, timing belt sprockets etc.

It is required when loosening/tightening the fastening screw.

The locking takes place either via the pins ( $\varnothing$  11.5mm) which engage the holes of the pulleys/timing belt sprockets, or by fixing the counter-holding tool to the crankshaft timing belt sprocket by means of the M8 bolts.

Thanks to its special length of 704mm, this tool allows even very tight-fitting or stubborn fastening screws to be loosened with ease.

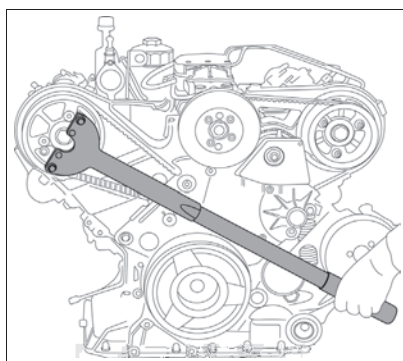
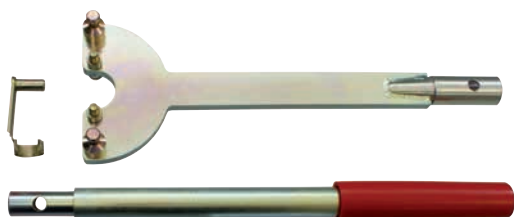
#### Technical Data:

Overall length (of assembled tool):	704mm
Length of base tool:	351mm
Length of extension tube with protective handle:	403mm
Pin $\varnothing$ :	11.5mm
Pin pitch:	99.5mm
Pin height:	31.5mm
Bolt thread:	M8
Bolt pitch:	45.5mm
Bolt height:	18mm

#### Scope of Delivery: KL-0184-022 Counter-Holding Tool, VW

Part No.	Description	Qty
KL-0184-0220	Counter-Holding Tool (Base Tool with Bolts)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0103	Folding Spring Bolt	1

6



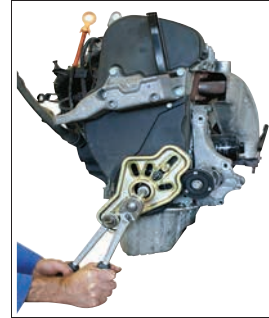
## KL-0155-42 (Patented) V-Ribbed Belt Pulley Puller

Universally suitable for use on perforated V-ribbed belt pulleys with diameters of from 120-180mm.

Two tools in one. This tool is designed to hold the pulley in position while loosening the central fixing screw, as well as to remove the V-ribbed belt pulley; for example, at the crankshaft, servo pump etc. Any standard 1/2" ratchet or sliding T bar can be used as a holding tool.

Scope of Delivery: KL-0155-42 V-Ribbed Belt Pulley Puller

Part No.	Description	Qty
KL-0155-4201	Bridge	1
KL-0155-4202	Pressure Piece with O-Ring and Balls	1
KL-0183-5401	Housing	1
KL-0183-5402	Spindle, M16x1.5x60mm	1
KL-0155-4203	Clamping Jaw, R70	2
KL-0155-4204	Bolt, Ø 6mm	2
KL-0155-4205	Bolt, Ø 12mm	2
KL-0155-4206	Slide Bush	2
KL-0155-4207	Flat-Head Screw, M10x30mm	2
KL-0350-0009	Shoulder Nut, M10	2



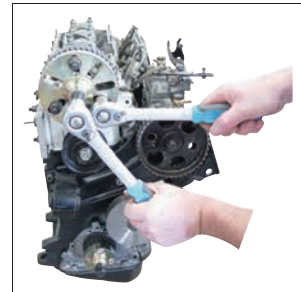
## KL-0183-50 (Universal) (Patented) Timing Belt Sprocket Extractor and Reaction Tool

Universal application - Two tools in one. The tool can be used for loosening the central fixing screw as well as for removing the sprocket. Suitable for all the perforated timing belt sprockets with a pitch circle diameter of from 70-100mm. Hole diameters should not be less than 20mm.

The tool is used to hold the pulley in position while loosening/tightening the central fixing screw. It is also designed to prevent the pulley from rotating while removing the sprocket. For this, any standard 1/2" ratchet or 1/2" sliding T-Bar can be used as a holding tool.

Scope of Delivery: KL-0183-50 Timing Belt Sprocket Extractor and Reaction Tool

Part No.	Description	Qty
KL-0183-510	Perforated Puller Disc	1
KL-0183-531	Hook, Ø 20mm	3
KL-0183-532	Hook, Ø 26mm	3
KL-0350-0009	Shoulder Nut, M10	3
KL-0183-540	Pressure Unit	1



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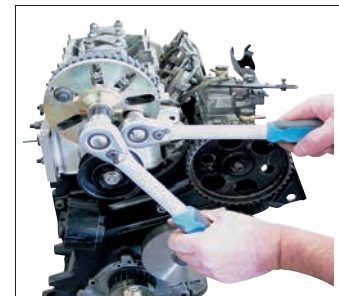
## KL-0183-51 A (Patented) Timing Belt Sprocket Extractor and Reaction Tool with 2 Hooks

Applicable to VW-Audi, Seat, Škoda, Opel/Vauxhall, Ford, BMW, Mercedes, Peugeot, Citroën, Renault, Fiat, Japanese vehicles etc.

Universal application - Two tools in one. Very useful tool for loosening the central fixing screw and for removing the sprocket. Suitable for all the perforated timing belt sprockets with a pitch circle diameter of from 70-100mm. Hole diameters should not be less than 16.5mm. The tool is used to hold the pulley in position while loosening/tightening the central fixing screw. It is also designed to prevent the pulley from rotating while removing the sprocket. For this, any standard 1/2" ratchet or 1/2" sliding T-Bar can be used as a holding tool.

Scope of Delivery: KL-0183-51 A Timing Belt Sprocket Extractor and Reaction Tool

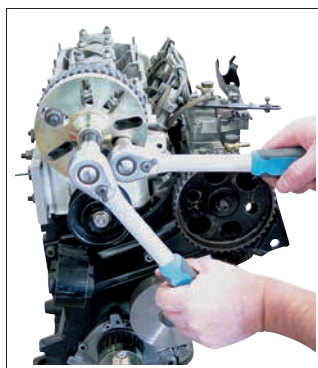
Part No.	Description	Qty
KL-0183-510	Perforated Puller Disc	1
KL-0183-533	Hook, Ø 16.5mm	2
KL-0350-0009	Shoulder Nut, M10	2
KL-0183-540 A	Pressure Unit	1



**Accessories:**

- KL-0183-531 Hook, Ø 20mm
- KL-0183-532 Hook, Ø 26mm





## KL-0183-52

### Timing Belt Sprocket Extractor/Reaction Tool

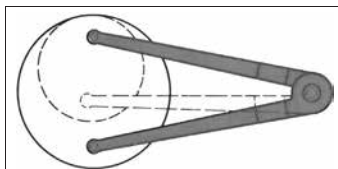
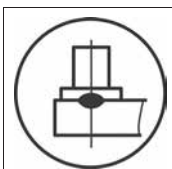
Applicable to injection pump and timing belt sprockets as found in Nissan, Renault, Dacia and Suzuki 1.5 dCi/DDiS Common Rail Diesel engines. Fitted, e.g., to Renault Clio II, Clio III, Fluence, Kangoo, Kangoo II, Laguna III, Megane II, Megane III, Scenic/Grand Scenic II, Scenic/Grand Scenic III, Logan, Logan MCV, Modus, Modus/Grand Modus II, Twingo II; Dacia Duster, Logan Pick-up, Logan Van/Express; Suzuki Jimny; Nissan Cube, Juke, Kubistar, Micra, Note, NV200, Qashqai, Qashqai 2, Tiida. (Engine codes: K9K, K9K 262, K9K 266, K9K 299, K9K 700, K9K 702, K9K 704, K9K 706, K9K 710, K9K 712, K9K 714, K9K 716, K9K 716, K9K 718, K9K 722, K9K 724, K9K 728, K9K 729, K9K 732, K9K 740, K9K 750, K9K 752, K9K 760, K9K 762, K9K 764, K9K 766, K9K 768, K9K 770, K9K 772, K9K 774, K9K 780, K9K 782, K9K 790, K9K 792, K9K 794, K9K 796, K9K 800, K9K 802, K9K 804, K9K 806, K9K 808, K9K 830, K9K 832, K9K 834, K9K 836, K9K 837, K9K 838, K9K 842, K9K 846, K9K 884, K9K 892, K9K 894, K9K 896, K9K 898)

Suitable for use on perforated injection pump and timing belt sprockets with a pitch circle diameter of from 70-100mm. The hole diameter should not be less than 16.5mm; also suitable for slotted holes with a width of 15mm. In conjunction with a 1/2" reversible ratchet, the timing belt sprocket extractor/reaction tool is used to hold the injection pump-/ timing belt sprocket in position while loosening/tightening the central fixing screw. It also allows for the removal of the timing belt sprocket from the camshaft/injection pump shaft without risk of damage. An indispensable tool set when changing the coolant pump allowing the user to remove the injection pump sprocket located in front of the pump.

#### Scope of Delivery: KL-0183-52 Timing Belt Sprocket Extractor/Reaction Tool

Part No.	Description	Qty
KL-0183-510	Perforated Puller Disc	1
KL-0183-534	Hook (oval)	2
KL-0183-540 A	Pressure Unit	1
KL-0350-0009	Hex Shoulder Nut, M10	2

6



## KL-0149-131

### Pin-Type Face Spanner, Ø14-100mm, Pin Ø5mm

Applicable to VW-Audi engines: 1.9 TDI/PD, 2.0 TDI/PD, 2.5 TDI, 2.7 Turbo, 3.0 TFSI/TSI etc.

Designed to hold the pulley in position when removing/installing the Visco-Fan; suitable for use on many VW-Audi engines.

#### Technical Data:

Ø:	14-100mm
Pin Ø:	5mm
Pin height:	6mm
Overall length:	215mm

## KL-0282-39

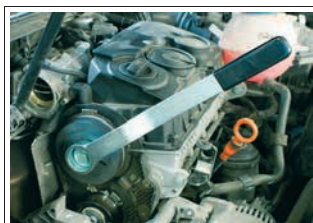
### Puller Tool Set, Pumpe-Düse (Unit Injector)

Applicable to the VW-Audi, Ford, Seat, Škoda 3- and 4-cylinder (1.2, 1.4, 1.6, 1.9 and 2.0 litre) TDI Pumpe-Düse (unit injector) engines as installed in: VW Eos, Golf, Jetta, Passat, Polo, Scirocco, Sharan, Tiguan, Touran; Audi A1, A3, A4, A5, A6, Q5, TT; Seat Altea, Exeo, Ibiza, Leon, Toledo; Škoda Fabia, Oktavia, Praktik, Roomster, Superb, Yeti. (Engine codes: CAGA, CAGB, CAGC, CAHA, CAHB, CAYA, CAYB, CAYC, CBAA, CBAB, CBAC, CBBA, CBBB, CBDA, CBDB, CBDC, CEGA, CFFA, CFFB, CFFD, CFFE, CFGB, CFHA, CFHB, CFHC, CFHF, CFJA, CGLA, CGLB, CJAA, CJCA, CJCB, CLCA, CLCB, CLJA, CLLA, CMEA)

This tool set is designed for the easy and professional removal of camshaft hubs. It is required, for example, when replacing the cylinder head gasket on 1.9 litre engines, when removing and replacing the camshaft, and for the repair of engines/cylinder heads. The KL-0282-391 reaction wrench enables the camshaft hub fixing screw to be loosened and tightened correctly. The KL-0282-392 puller allows for the accurate removal of the camshaft hub from the camshaft taper.

#### Scope of Delivery: KL-0282-39 Puller Tool Set, Pumpe-Düse (Unit Injector)

Part No.	Description	Qty
KL-0282-391	Counter-Holding Tool	1
KL-0282-392	Puller for Camshaft Hub	1



## KL-0282-50

### Puller for Timing Belt Sprocket (Crankshaft)

**Suitable for use on VW-Audi 4 and 5-cylinder engines.**  
Designed to remove the crankshaft timing belt sprocket.



## KL-0184-021

### Counter-Holding Tool, VW

**Applicable to VW-Audi (2.4 and 2.5 litre) 4- and 5-cylinder engines, both with and without vibration damper; as found on: VW Crafter, T4.**  
**(Engine codes: AJA, BJJ, BJK, BJL, BJM, CEBA, CEBB, CECA, CECB)**

This tool is designed to counter-hold the crankshaft pulley while loosening/tightening the crankshaft central screw. An indispensable tool when replacing timing belts, sealing rings or flywheels, as well as for engine repairs.

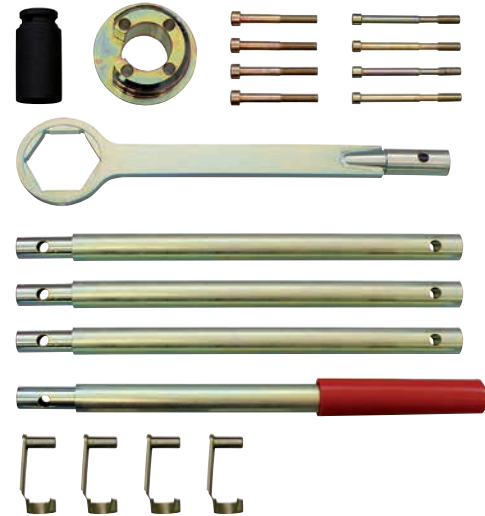
**Technical Data:**

Overall length (assembled tool):	1.8m
Length of extension tube:	400mm
Length of extension tube with protective handle:	403mm
Length of base tool:	401mm
Drive of hex socket:	1/2"

**Scope of Delivery:**

**KL-0184-021 Counter-Holding Tool, VW**

Part No.	Description	Qty
KL-0184-0210	Counter-Holding Tool (base tool with adaptor)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0102	Extension Tube	3
KL-0184-0103	Folding Spring Bolt	4



## KL-0184-023

### Counter-Holding Tool, VW

**Applicable to VW 1.4 16V and 1.6 16V petrol engines; as installed in VW Beetle, Bora, Caddy/Caddy Maxi, Golf, Lupo, Polo.**  
**(Engine codes: AHW, APE, AQQ, ARC, ARR, ATN, AUA, AUB, AUS, AVY, AZD, BBY, BBZ, BCA, BCB, BKY, BUD)**

This tool is used to counter-hold the crankshaft pulley while loosening and tightening the crankshaft central screw.

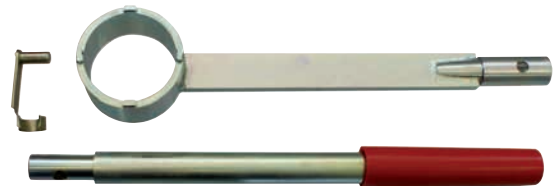
**Technical Data:**

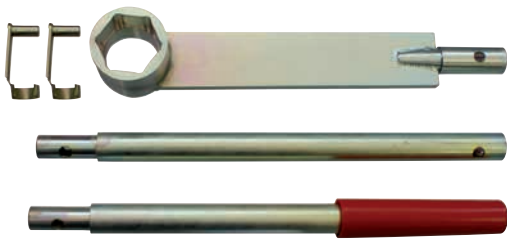
Overall length (of assembled tool):	739mm
Length of extension tube with protective handle:	403mm
Length of base tool:	386mm

**Scope of Delivery:**

**KL-0184-023 Counter-Holding Tool, VW**

Part No.	Description	Qty
KL-0184-0230	Counter-Holding Tool (base tool)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0103	Folding Spring Bolt	1





### Technical Data:

Length of assembled tool:	1.06m
Length of extension tube with protective handle:	403mm
Length of extension tube:	400mm
Length of base tool:	361mm

## KL-0184-024

### Counter-Holding Tool, VW

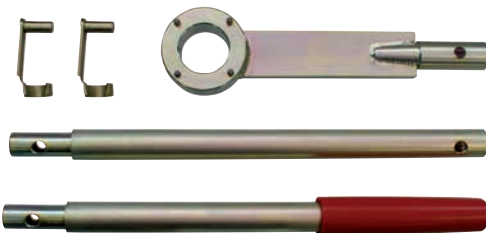
Applicable to VW-Audi, Seat vehicles, and Ford Galaxy equipped with either a 2.3, 2.8, 3.2, 3.6, 4.0 or 6.0 litre engine; such as VW Beetle, Bora, Sharan, Eos, Golf, Touareg, Transporter T5, Passat CC, Passat, Phaeton; Audi A3, A8, Q7, TT; Seat Alhambra, Leon, Toledo; Ford Galaxy.

(Engine codes: AGZ, AQN, AUE, AXZ, AYL, AYT, AZZ, BAA, BAN, BAP, BDB, BDE, BDL, BDM, BDN, BDP, BFH, BHE, BHK, BHL, BHT, BJN, BJS, BKJ, BKK, BKL, BMJ, BML, BMV, BMX, BRJ, BRK, BRN, BRP, BSB, BTE, BTT, BUB, BWS, CBRA)

Designed to counter-hold the crankshaft pulley while loosening/tightening the crankshaft central screw.

### Scope of Delivery: KL-0184-024 Counter-Holding Tool, VW

Part No.	Description	Qty
KL-0184-0240	Counter-Holding Tool (base tool)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0102	Extension Tube	1
KL-0184-0103	Folding Spring Bolt	2



### Technical Data:

Length of assembled tool:	980mm
Length of base tool:	276mm
Length of extension tube:	400mm
Length of extension tube with protective handle:	403mm

## KL-0184-025

### Counter-Holding Tool, VW

Applicable to VW-Audi, Seat, Škoda vehicles equipped with either a 1.8 or 2.0 TSI/TFSI engine; such as VW Golf, Eos, Jetta, Passat, Passat CC, Scirocco, Sharan, Tiguan; Audi A3, A4, A5, Q5, TT; Seat Toledo, Altea/Altea XL, Exeo, Leon; Škoda Octavia II, Superb II, Yeti.

(Engine codes: BYT, BZB, CABA, CABB, CABD, CAWA, CAWB, CBFA, CCTA, CCZA, CCZB, CCZC, CDAA, CDAB, CDHA, CDHB, CDNB, CDNC, CDND, CESA, CETA, CFKA, CGYA)

For counter-holding the crankshaft vibration damper while loosening and tightening the crankshaft central screw.

### Scope of Delivery: KL-0184-025 Counter-Holding Tool, VW

Part No.	Description	Qty
KL-0184-0250	Counter-Holding Tool (Base Tool with Pins)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0102	Extension Tube	1
KL-0184-0103	Folding Spring Bolt	2



### Technical Data:

Drive:	1/2"
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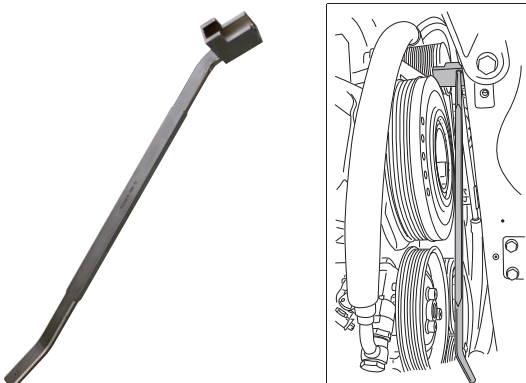
## KL-0284-16

### Tensioner Tool

**Applications: VW Polo, Golf, Passat, T4 and Audi.**

**For V-ribbed belts.**

When changing the V-ribbed belt, the automatic tensioner pulley can be loosened by means of the KL-0284-16 tensioner tool.



## KL-0284-12

### Tensioner Tool (Ribbed V-Belt)

**Suitable for use on ribbed V-belts as found in VW Polo, Golf, Passat, T4 and Audi. (Engine codes: ASN, BBJ)**

The KL-0284-12 tensioner tool enables the automatic tensioner pulley to be released when replacing a ribbed V-belt.

**Advantage:**

The lever head attachment is reversible/interchangeable.

## KL-0284-92

### Tension Pulley Spanner, Size (waf) 16mm

**Universal application.**

**Particularly useful on VW-Audi 1.9 and 2.0 TDI engines.**

**(Engine codes: ASZ, ATD, AXA, AXR, BLS, BLT, BMT, BPX, BUK, BXJ)**

This tool is designed to pre-tension the auxiliary belt tensioner when the removal and installation of the belt is to be performed in situ on the vehicle. THE ideal spanner for use in areas where space is at a premium.



**Technical Data:**

Size (waf):	16mm
Length:	295mm

## KL-0284-15

### V-Ribbed Belt Adjustment Tool

(via the alternator)

**Suitable for use on 1.4, 1.6 and 2.0 litre VW engines on which the V-ribbed belt can only be tensioned via the spring-loaded alternator.**

**(Engine codes: AMF, AXX, BAH, BBY, BBZ, BCA, BHZ, BKR, BKY, BMS, BNM, BNV, BPY, BUD, BWA, BXW, BZC, CGGB)**

Tool features strengthened and fluted pins which allow the tension on the V-ribbed belt to be released. The special fluted design prevents the pins from slipping out of the alternator boreholes.



**Technical Data:**

Drive:	1/2"
Diameter (pin to pin):	157mm

## KL-0284-8

### Holding Tool

**Applications: VW Polo, Golf, Passat and Audi A4, etc.**

Designed to counter-hold the pulley on the power steering pump.

**Advantages:**

- The 1/2" drive in the tool handle enables the tool to be extended, for example by a ratchet.
- Facilitates the loosening of stubborn fastening screws on the pulley.

**Technical Data:**

Length:	Height:	Inner Ø:	Screw retaining Ø:	Weight:
250mm	17mm	31mm	14mm	450g



## KL-0284-11

### Water Pump Holding Tool

**Applications: VW-Audi etc.**

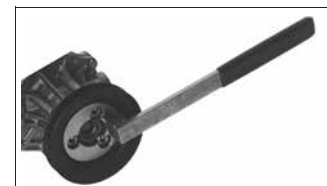
Designed to counter-hold **deep-drawn** water pump pulleys that are used when an air conditioning system is installed. For example necessary when loosening and tightening the fastening screws on the pulley.

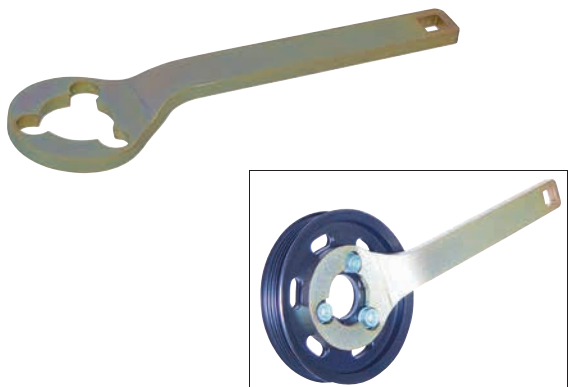
**Advantages:**

- Safe locking of the water-pump pulley via the fastening screws.
- Facilitates the loosening of stubborn fastening screws on the water pump pulley.

**Technical Data:**

Length:	Height:	Inner Ø:	Screw retaining Ø:	Weight:
300mm	40mm	31mm	14mm	450g





## KL-0284-81 Holding Tool

**Suitable for use on VW Passat (1997 onwards) and Audi A4 (1999 onwards) etc.**

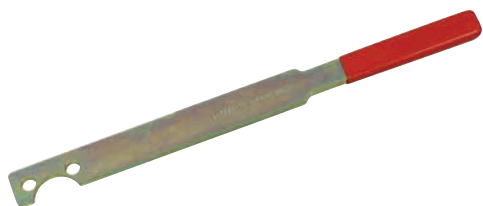
Designed to counter-hold the pulley on the power steering pump. For example, necessary when loosening and tightening the fastening screws on the pulley.

**Advantages:**

- The 1/2" drive in the tool handle enables the tool to be extended, for example by a ratchet.
- Facilitates the loosening of stubborn fastening screws on the pulley.

**Technical Data:**

Length:	Height:	Inner-Ø:	Screw retaining Ø:	Weight:
250mm	23mm	38mm	16mm	450g



## KL-0582-1 Holding Tool for Viscous Fan, BMW

**Suitable for use on BMW engines, e.g. M20 and M30.**

Designed to counter-hold the fan shaft when removing the viscous fan.

**Technical Data:**

Hole pitch:	38mm
Weight:	500g



## KL-0582-2 Holding Tool for Viscous Fan, BMW

**Suitable for use on BMW engines, e.g. M10, M20, M21, M30, M50, M51, M52, M52TU, M54, M56, M70, M73, S14 and S38.**

Designed to counter-hold the fan shaft when removing the viscous fan.

**Technical Data:**

Hole pitch:	44,5mm
Weight:	400g

6

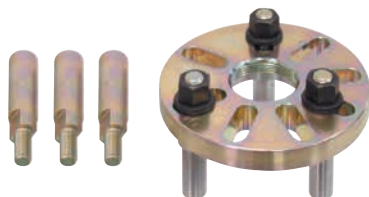


## KL-0123-1 A Reaction Wrench, Size (waf) 32mm

Designed to counter-hold the viscous clutch drive shaft when removing/installing the viscous clutch on **BMW and Ford** vehicles.

**Technical Data:**

Size (waf):	32mm
Length:	280mm
Height:	11mm
Weight:	340g



## KL-0366-81 Counter-Holding Tool, Mercedes

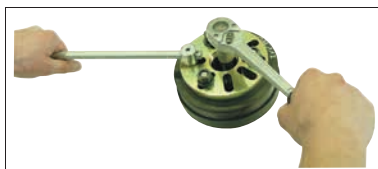
**Suitable for use on Mercedes engines, e.g. M112, M113 and OM642, etc.**

This tool is designed to counter-hold the crankshaft pulley when loosening/tightening the crankshaft central screw.

It is required when replacing pulleys or for engine repairs.

**Scope of Delivery: KL-0366-81 Counter-Holding Tool, Mercedes**

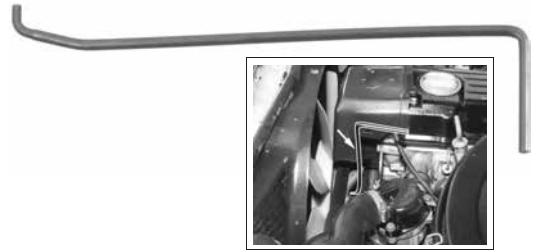
Part No.	Description	Qty
KL-0366-800	Bolt Set, Ø 20mm	1
KL-0366-801	Bolt Set, Ø 15mm	1
KL-0366-8001	Perforated Disc	1
KL-0350-2007	Hex Shoulder Nut, M12	3



## KL-0367-1 Locking Tool

Suitable for use on Mercedes engines such as M103.

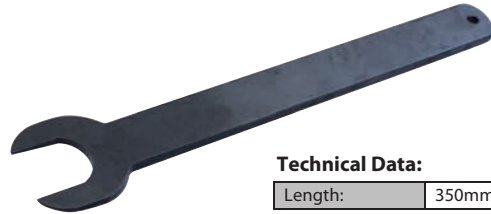
This tool allows for the loosening of the viscous fan pulley (locking the fan pulley).



## KL-0366-5 Special Open-End Wrench, Size (waf) 36mm

Application: Mercedes engines M111, OM604, OM605 and OM606 (C- and E-Class).

This special open-end wrench is designed to loosen the screws on fans.



Technical Data:

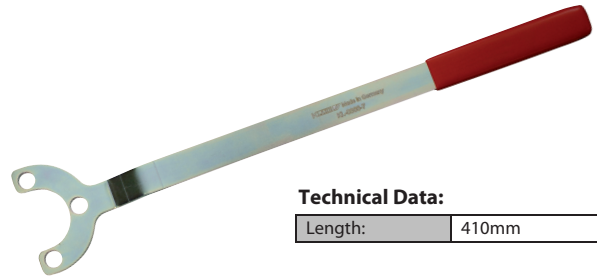
Length:	350mm
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## KL-0366-7 Reaction Wrench

Suitable for use on Mercedes M111 engines as installed in C- and E-Class vehicles (4-cylinder 4-valve), OM604, OM605 and OM606.

With 3 boreholes.

In order to remove the cooling fan hub, the reaction wrench is bolted to the front face of the hub. The V-ribbed belt is not in place during this operation.



Technical Data:

Length:	410mm
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## KL-0366-6 Special Open-Ended Wrench, Size (waf) 65mm

Suitable for use on Mercedes engines M103 (6-cylinder), M104 (6-cylinder 4-valve), M119 (8-cylinder 4-valve), M120 (12-cylinder 4-valve).

Special open-ended wrench for the removal/installation of the cooling fan hub.



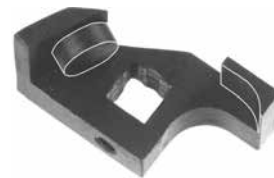
Technical Data:

Length:	400mm
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## KL-0384-1 Tensioner Tool (V-Ribbed Belt), Mercedes

Suitable for use on Mercedes Transporters of the 208 D to 410 D Series, equipped with either an OM601 or OM602 engine; also for Mercedes passenger cars fitted with a hydraulic pump for self-levelling suspension.

The tool is used to relieve tension on the V-ribbed belt by pushing back the automatic tensioner pulley. Due to the extremely limited space available, in particular on Transporter models, it is very difficult to push back the automatic tensioner pulley in order to change the V-ribbed belt. The KL-0384-1 tensioner tool is designed to make light work of this difficult job. The tool is operated by a 3/8" socket spanner.



## KL-0384-10 Locking Tool, Mercedes

Applicable to Mercedes-Benz A-, B-, C-, CLC-, CLK-, CLS-, E-, G-, GL-, M-, R-, S-, SLK-, V-Class, Sprinter, Vito and Viano vehicles equipped with either a petrol engine (engine codes: M104, M111, M112, M119, M120, M272, M273) or a Diesel engine with 4-valve-technology.

(Engine codes: OM605, OM606, OM611, OM612, OM613, OM614, OM628, OM629, OM640, OM642, OM643, OM646, OM646 EVO, OM647, OM648, OM649)

Designed to lock the camshafts when removing the cylinder head.



Technical Data:

Ø:	5.8/6.0mm
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**Technical Data:**

Size (waf):	36mm
Length:	280mm
Height:	11mm
Weight:	340g

## KL-0123-2 A

### Reaction Wrench, Size (waf) 36mm

**Suitable for use on Ford, Opel/Vauxhall and GM vehicles.**

Designed to counter-hold the viscous clutch drive shaft when removing/installing the viscous clutch.



## KL-0483-10

### Counter-Holding Tool, 39mm waf

**Suitable for use on Opel/Vauxhall and GM 1.6 litre OHC engines.**

**(Engine codes: X16S2R, Z16SE)**

This tool is designed to turn the water pump for adjusting the tension on the drive belt.

**Technical Data:**

Size (waf):	39mm
Drive:	1/2"
Length:	90mm
Weight:	110g



## KL-0483-11

### Counter-Holding Tool, 41mm waf

**Suitable for use on Opel/Vauxhall and GM 1.2, 1.3, 1.4, 1.6 litre OHC engines; Daewoo 1.4, 1.5, 1.6, 1.8; Chevrolet 1.4, 1.6. (Engine codes: A13DM/14SMS, A15DM/15SMS, A16DM, A16DMS, F14D3, F14S3, F16D3, F18N, LXT, Z16SE)**

This tool is designed to turn the water pump for adjusting the tension on the drive belt.

**Advantages:**

- Ensures the viscous clutch is securely counter-held.
- Prevents damage to the viscous clutch.
- High-quality tool due to a special manufacturing process.

**Technical Data:**

Size (waf):	41mm
Drive:	1/2"
Length:	90mm
Weight:	110g



## KL-0483-12

### Counter-Holding Tool, 46mm waf

**Suitable for use on Opel/Vauxhall and GM OHC engines.**

This tool is designed to turn the water pump for adjusting the tension on the drive belt.

**Technical Data:**

Size (waf):	46mm
Drive:	1/2"
Length:	90mm
Weight:	110g



**Technical Data:**

Length of tension lever:	465mm
Ø of retaining pin:	4.2mm



## KL-1381-30

### Tensioner Tool with Retaining Pin

**Applicable to PSA (Citroën, Peugeot), Fiat and Ford 1.4 und 1.6 litre Diesel engines as found in: Citroën Berlingo/Berlingo First I/II, C1, C2, C3 I/II/First/Classic, C3 III, C3 Picasso, C3 Pluriel, C4 II, C4 Picasso/Grand Picasso, C5 III, DS3, Berlingo III, DS4, DS3, DS4, Xsara II, Xsara Picasso and Peugeot Partner III, 206, 207, 207 CC, 308, 308 CC, 508, 3008, 5008. (Engine codes: DV4, DV6)**

Facilitates the tensioning and locking of V-ribbed belt tensioners.

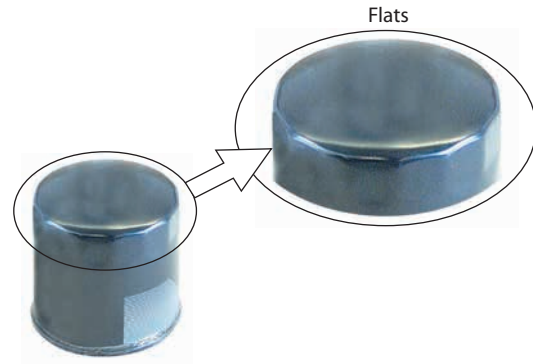
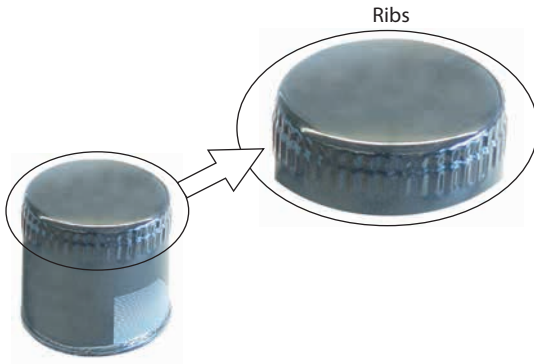
This tool allows for the removal/installation of the V-ribbed belt in situ on the vehicle even in very limited space conditions.

**Scope of Delivery: KL-1381-30 Tensioner Tool with Retaining Pin**

Part No.	Description	Qty
KL-1381-3021	Retaining Pin (angled), Ø 4.2mm	1
KL-1383-301	Tension Lever with Base Body	1

To identify the suitable oil filter socket, proceed as follows:

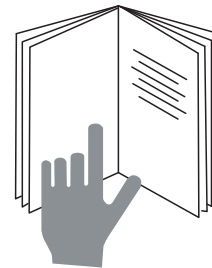
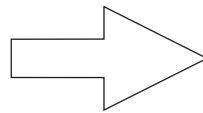
1. Check whether the filter has flats or ribs.
2. Count the number of ribs or flats.



3. With the aid of a calliper gauge, measure the width across flats (waf) size.



4. Choose the suitable oil filter socket with the help of the Overview Table below.

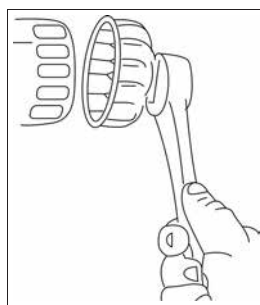


**Overview Table of Oil Filter Sockets:**

Size	Size (width across flats)	Part No.	Description
27mm	27mm	KL-0122-52	Oil Filter Socket
32mm	32mm	KL-0122-51	Oil Filter Socket
36mm	36mm	KL-0122-5	Oil Filter Socket
37mm	37mm	KL-0122-54	Oil Filter Socket
64mm	64mm, 14 flats	KL-0122-308	Oil Filter Socket
65mm	65mm, 14 flats	KL-0122-309	Oil Filter Socket
66mm	Ø 66mm, 6 ribs	KL-0122-318	Oil Filter Socket
66mm	Ø 66mm, 6 ribs	KL-0122-601	Oil Filter Socket
67mm	67mm, 14 flats	KL-0122-311	Oil Filter Socket
72mm	72mm, 14 flats	KL-0122-310	Oil Filter Socket
73mm	73mm, 10 flats	KL-0122-612	Oil Filter Socket
74mm	74mm, 14 flats	KL-0122-301	Oil Filter Socket
74mm	74mm, 14 flats	KL-0122-3	Oil Filter Socket
74mm	74mm, 15 flats	KL-0122-302	Oil Filter Socket
74mm	74mm, 30 ribs	KL-0122-306	Oil Filter Socket
74mm	74mm, 8 flats	KL-0122-323	Oil Filter Socket
76mm	Ø 76mm, 12 ribs	KL-0122-219	Oil Filter Socket (aluminium)
76mm	Ø 76mm, 12 ribs	KL-0122-319	Oil Filter Socket
76mm	Ø 76mm, 12 ribs	KL-0122-7	Oil Filter Wrench
76mm	76mm, 15 flats	KL-0122-303	Oil Filter Socket
78mm	78mm, 15 flats	KL-0122-332	Oil Filter Socket
79mm	79mm, 15 flats	KL-0122-305	Oil Filter Socket

Size	Size (width across flats)	Part No.	Description
82mm	82mm, 15 flats	KL-0122-314	Oil Filter Socket
84mm	84mm	KL-0122-609	Oil Filter Socket
86mm	Ø 86mm, 18 ribs	KL-0122-312	Oil Filter Socket
86mm	Ø 86mm, 18 ribs	KL-0122-212	Oil Filter Socket (aluminium)
86mm	86mm, 16 flats	KL-0122-326	Oil Filter Socket
86mm	86mm, 16 flats	KL-0122-426	Oil Filter Socket (reinforced design)
89mm	89mm, 15 flats	KL-0122-315	Oil Filter Socket
91mm	91mm, 15 flats	KL-0122-304	Oil Filter Socket
92mm	92mm, 10 flats	KL-0122-324	Oil Filter Socket
92mm	92mm, 36 ribs	KL-0122-307	Oil Filter Socket
93mm	Ø 93mm, 45 ribs	KL-0122-317	Oil Filter Socket
93mm	Ø 93mm, 45 ribs	KL-0122-217	Oil Filter Socket (aluminium)
95mm	95mm, 15 flats	KL-0122-334	Oil Filter Socket
96mm	Ø 96mm, 18 ribs	KL-0122-313	Oil Filter Socket
96mm	Ø 96mm, 18 ribs	KL-0122-213	Oil Filter Socket (aluminium)
99mm	99mm, 15 flats	KL-0122-335	Oil Filter Socket
100mm	100mm, 15 flats	KL-0122-316	Oil Filter Socket
103mm	103mm, 14 flats	KL-0122-611	Oil Filter Socket
106mm	106mm, 15 flats	KL-0122-322	Oil Filter Socket
108mm	Ø 108mm, 18 ribs	KL-0122-321	Oil Filter Socket
108mm	Ø 108mm, 18 ribs	KL-0122-602	Oil Filter Socket
108mm	108mm, 15 flats	KL-0122-327	Oil Filter Socket





**Technical Data:**

Drive:	3/8"
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## KL-0122-31 K Set of Oil Filter Sockets

The oil filter sockets with profile come in a reinforced design and are specifically adapted to the respective oil filter cartridges.

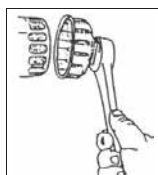
**Scope of Delivery: KL-0122-31 K Set of Oil Filter Sockets**

Part No.	Description	Applications:
KL-0122-301	Oil Filter Socket, Size (waf) 74mm, 14 Flats, 1 Step	Audi e.g. A3 (TDI); BMW 3-Series (E36 with 4-cylinder engines), Citroën; Fiat; Ford; Lancia; Mazda; Mercedes (e.g. CDI engines, C- and E-Class (with 4- and 6-cylinder petrol engines)); Nissan; Opel/Vauxhall; Peugeot; Porsche; Renault; Toyota; VW e.g. Golf (IV TDI), etc.
KL-0122-302	Oil Filter Socket, Size (waf) 74mm, 15 Flats, 2 Steps	Ford, Opel/Vauxhall, etc.
KL-0122-303	Oil Filter Socket, Size (waf) 76mm, 15 Flats, 2 Steps	VW-Audi, Mercedes, Opel/Vauxhall, Ford Focus III, etc.
KL-0122-304	Oil Filter Socket, Size (waf) 91mm, 15 Flats, 1 Step	Alfa Romeo, Fiat, Ford, Honda, Mazda, Mitsubishi, Nissan, Opel/Vauxhall, Porsche, Renault, Volvo, VW-Audi, etc.
KL-0122-305	Oil Filter Socket, Size (waf) 79mm, 5 Flats, 1 Step	Ford, Honda, Isuzu, Mazda, Nissan, Opel/Vauxhall, Subaru, Toyota, etc.
KL-0122-306	Oil Filter Socket, Ø 74mm, 30 Ribs, 1 Step	Ford, etc.
KL-0122-307	Oil Filter Socket, Ø 92mm, 36 Ribs, 1 Step	Ford, etc.
KL-0122-308	Oil Filter Socket, Size(waf) 64mm, 14 Flats, 1 Step	Fiat, Daihatsu, Nissan, Toyota, etc.
KL-0122-309	Oil Filter Socket, Size (waf) 65mm, 14 Flats, 2 Steps	Daihatsu, Toyota, etc.
KL-0122-310	Oil Filter Socket, Size (waf) 72mm, 14 Flats, 1 Step	Toyota, Mini Diesel, etc.
KL-0122-311	Oil Filter Socket, Size (waf) 67mm, 14 Flats, 1 Step	Mazda, Ford, etc.
KL-0122-314	Oil Filter Socket, Size (waf) 82mm, 15 Flats, 2 Steps	Honda, Mazda, Nissan, Subaru, Toyota, etc.
KL-0122-315	Oil Filter Socket, Size (waf) 89mm, 15 Flats, 1 Step	Honda, Isuzu, Mitsubishi, etc.
KL-0122-316	Oil Filter Socket, Size (waf) 100mm, 15 Flats, 1 Step	Isuzu, Mitsubishi, etc.
KL-0122-329	Adaptor 1/2" to 3/8"	
KL-0122-320	Plastic Storage Case	

6



3/8"



## KL-0122-332 Oil Filter Socket, Size (waf) 78mm

**Applications: Ford, Mitsubishi, Nissan, Toyota, etc.**

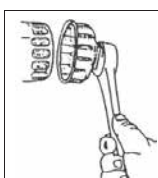
For oil filters with size 78mm (waf) and 15 flats.

**Technical Data:**

Drive:	3/8"
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3/8"



## KL-0122-334 Oil Filter Socket, Size (waf) 95mm

**Applications: Alfa Romeo, Chrysler, Ford, Toyota etc.**

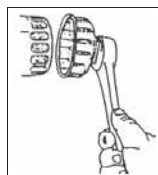
For oil filters with size 95mm (waf) and 15 flats.

**Technical Data:**

Drive:	3/8"
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3/8"



## KL-0122-335 Oil Filter Socket, Size (waf) 99mm

**Applications: Toyota Diesel etc.**

For oil filters with size 99mm (waf) and 15 flats.

**Technical Data:**

Drive:	3/8"
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## KL-0122-426

### Oil Filter Socket,

Size (waf) 86mm, 16 Flats (reinforced design)

The ideal tool for Volvo vehicles, e.g. S40, S70 etc, etc.

Suitable for oil filters with size (waf) 86mm and 16 flats. Necessary to remove and install the oil filter cover when replacing the oil filter cartridge.

**Technical Data:**

Drive:	3/8"
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## KL-0122-3

### Oil Filter Socket, Size (waf) 74mm, 14 Flats

Applications: VW-Audi, BMW, Citroën, Fiat, Ford, Lancia, Mazda, Mercedes, Nissan, Opel/Vauxhall, Peugeot, Porsche, Renault, Suzuki, Toyota, etc.

The ideal tool for Audi A3 (TDI); VW Golf (IV TDI), LT; BMW 3 Series (E36 with 4-cylinder engine); Porsche Cayenne, Boxster, 911; Mercedes CDI engines, as well as C- and E-Class (with 4- or 6-cylinder petrol engine).

Intended for use on oil filters with size (waf) 74mm and 14 flats.

**Technical Data:**

Drive:	22mm
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## KL-0122-212

### Oil Filter Socket (Aluminium), Ø 86mm, 18 Ribs

Applications: VW-Audi, Seat, Škoda etc.

The ideal tool for VW, e.g.: Golf (III), Passat (until 1996 with TDI engine); Audi, e.g.: A6 (until 1996 with TDI engine 85 kW/115bhp); Renault, e.g.: Clio, Rapid and Laguna (1.9 D), Safrane; Espace (III/2.1 D), etc.

Intended for use on oil filters with Ø 86mm and 18 ribs.

**Technical Data:**

Drive:	3/8"
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## KL-0122-213

### Oil Filter Socket (Aluminium), Ø 96mm, 18 Ribs

Applications: VW-Audi, Seat, Škoda etc.

The ideal tool for Audi, e.g.: A4 (with TDI engine); VW, e.g.: Touareg (with V10 TDI engine), Passat (1997 onwards, with TDI engine); Renault, e.g.: Laguna, Safrane, Espace III (2.2 D), R19, Rapid and Megane (1.9 and 2.1 D/TD), Master (2.5 and 2.8 D/TD); Opel/Vauxhall, e.g.: Movano (2.5 and 2.8 D/TD), etc.

Intended for use on oil filters with Ø 96mm and 18 ribs.

**Technical Data:**

Drive:	3/8"
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## KL-0122-217

### Oil Filter Socket (Aluminium), Ø 93mm, 45 Ribs

Applications: VW-Audi, Seat, Škoda, Renault etc.

The ideal tool for VW-Audi (2.4, 2.6 and 2.8 TDI Diesel engines) and Renault Maxity etc.

Intended for use on oil filters with Ø 93mm and 45 ribs.

**Technical Data:**

Drive:	3/8"
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**Accessories (on demand):**

3093 U-20 CODE:1556800 - Reversible ratchet 3/8" 200mm





3/8"



## KL-0122-219

### Oil Filter Socket (Aluminium), Ø 76mm, 12 Ribs

**Applications: VW-Audi, Mercedes, Seat, Škoda etc. (with Purflux Filter LS 918).**  
**The ideal tool for Mercedes vehicles with either an M102 or M103 6-cylinder petrol engine.**

Intended for use on oil filters with Ø 76mm and 12 ribs. Thanks to the particularly compact design of the oil filter socket, oil filters on Mercedes M102 and M103 engines can be replaced without the need for removing the induction pipe.

#### Technical Data:

Drive:	3/8"
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3/8"



## KL-0122-601

### Oil Filter Socket, Ø 66mm, 6 Ribs

**Suitable for use on Renault vehicles such as Twingo, Clio (with a D petrol engine and filter no. 77 00 869 029).**

Intended for use on oil filters with Ø 66mm und 6 ribs.  
 This socket allows for the quick and easy removal of stuck oil filters.

#### Technical Data:

Drive:	3/8"
Weight:	191g



3/8"



## KL-0122-602

### Oil Filter Socket, Ø 108mm, 18 Ribs

**Suitable for use on Renault vehicles such as Trafic, Master, Safrane (with an S8U engine and filter no. 77 00 860 823).**

Suitable for oil filters with Ø 108mm and 18 ribs.  
 This socket allows quick and easy removal of stuck oil filters.

#### Technical Data:

Drive:	3/8"
Weight:	289g



## KL-0122-612

### Oil Filter Socket, Size (waf) 73mm, 10 Flats

**Suitable for use on Alfa Romeo GTA.**

Suitable for oil filters and oil filter housings with 10 flats and size (waf) 73mm.  
 This oil filter socket is intended for the removal and installation of the oil filter cover when replacing the oil filter cartridge.

#### Technical Data:

Weight:	270g
Drive:	3/8"



3/8"



## KL-0122-609

### Oil Filter Socket, Size (waf) 84mm, 14 Flats

**Suitable for use on oil filters and/or oil filter housings with 14 flats and size (waf) 84mm, e.g. in Mercedes OM642 CDI engines as fitted to: C-Class (320), CLS (320), E-Class (280, 320), S-Class (320), ML (280, 320), etc.**

Intended for use on oil filters with size (waf) 84mm with 14 flats. This oil filter socket is intended for the removal and installation of the oil filter cover when replacing the oil filter cartridge.

#### Technical Data:

Size:	84mm, 14 flats
Drive:	3/8"
Weight:	500g

## KL-0122-611

### Oil Filter Socket, Size (waf) 103mm, 14 Flats

**Suitable for use on 3.0 litre Diesel engines as found in Opel/Vauxhall Signum (Z30DT; Y30DT) and Renault Espace (IV), VEL Satis etc.**

Intended for use on oil filters/oil filter housings with size (waf) 103mm and 14 flats. This oil filter socket is intended for the removal and installation of the oil filter cover when replacing the oil filter cartridge.



**Technical Data:**

Drive:	3/8"
Weight:	560g

## KL-0122-7

### Oil Filter Wrench with Handle, Ø 76mm, 12 Ribs

**Applications:**

- Ford with a 1.8 Diesel engine and Motorcraft filter EFL 344
- Peugeot with Purflux filters
- Renault, e.g.: R5, Twingo, Rapid (with C Petrol engines); Clio, Kangoo (with E Petrol engines); R19, Espace III, Laguna (with F Petrol engines); Megane, Kangoo (with K Petrol engines, only those with filter No. 77 00 873 583); R21, Espace I + II (with F-Petrol engine); Trafic (with J Petrol engine, only those with filter No. 77 00 720 978)
- Honda, e.g. Prelude (BA4 2.0 16V)
- Land Rover Defender 2.5 Diesel (DD5) with filter No. LPX 100 590, etc.

Designed for oil filters with Ø 76mm and 12 ribs. Allows quick and easy removal of stuck oil filters.



**Technical Data:**

Length:	326mm
Weight:	293g

## KL-0122-191

### Oil Filter Socket (universal), Ø 60-80mm

**Universally suitable for use on oil filters with Ø 60-80mm as found in passenger cars.** Allows the user to loosen oil filters quickly and safely. Retaining jaws grip the filter without the risk of slipping. The ideal tool when space is at a premium.

**Technical Data:**

Clamping range:	Ø 60-80mm
Drive (square):	1/2" or 21mm waf



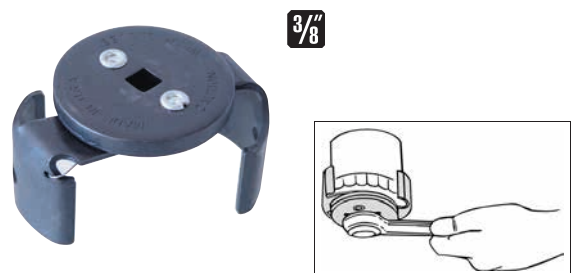
## KL-0122-13

### Oil Filter Socket, Ø 64-80mm

The socket allows for the quick and safe loosening of oil filters on European vehicles. Retaining jaws grip the filter without the risk of slipping. The ideal tool when space is at a premium.

**Technical Data:**

Clamping range:	Ø 64-80mm
Weight:	400g
Drive:	3/8"



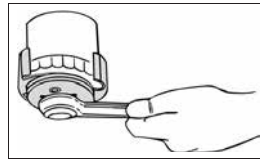
**Accessories (on demand):**

**3093 U-20 CODE:1556800 - Reversible ratchet 3/8" 200mm**





3/8"



## KL-0122-14

### Oil Filter Socket, Ø 80-98mm

The socket allows for the quick and safe loosening of oil filters on European vehicles. Retaining jaws grip the filter without the risk of slipping. The ideal tool when space is at a premium.

#### Technical Data:

Clamping range:	Ø 80-98mm
Weight:	400g
Drive (square):	3/8"



## KL-0122-192

### Oil Filter Socket (universal), Ø 80-110mm

**Universally suitable for use on oil filters with Ø 80-110mm as found in passenger cars.**

Allows the user to loosen oil filters quickly and safely. Retaining jaws grip the filter without the risk of slipping. The ideal tool when space is at a premium.

#### Technical Data:

Clamping range:	Ø 80-110mm
Drive (square):	1/2" or 22mm waf



## KL-0122-193

### Oil Filter Socket (universal), Ø 110-145mm

**Universally suitable for use on oil filters and air dryer cartridges with Ø of 110-145mm as found in HGVs.**

Allows the user to loosen oil filters and air dryer cartridges quickly and safely. The special design of the tool and of the retaining jaws ensure that even very tight-fitting/stuck oil filters and air dryer cartridges can be removed without risk of slipping. The ideal tool when space is at a premium.

#### Technical Data:

Clamping range:	Ø 110-145mm
Drive (square):	1/2" or 24mm waf



6

## KL-0122-54

### Oil Drain Plug Socket, Size (waf) 37mm

**Suitable for use on VW-Audi, Seat and Škoda 1.8 and 2.0 FSI/TFSI petrol engines with oil drain plug at the plastic oil filter housing. For example, fitted to: Audi A3 (8P1, 8PA), A4 (8EC, 8ED, 8H7, 8HE), A6 (4F2, 4F5), TT (8J3, 8J9); Seat Altea (5P1, 5P5), Leon (1P1), Toledo (III [P2]); Škoda Octavia (1Z3, 1Z5); VW Eos, Golf (V [1K1, 5M1]), Jetta (III [1K2]), New Beetle (9C1, 1C1, 1Y7), Passat (3C2, 3C5), Touran (1T1, 1T2). (Engine codes: AXW, BGB, BLX, BLR, BLY, BVX, BVY, BVZ, BWE)**

Designed for the professional loosening/tightening of the oil drain plug (size 37mm waf) at the plastic oil filter housing. Necessary, for example, when draining the engine oil from the oil filter housing using the **KL-0288-10** oil drain adaptor.



3/8"



## KL-0122-5

### Oil Filter Socket, Size (waf) 36mm

**Suitable for use on BMW 1 Series, 3 Series, 5 Series; Mini One, Cooper, Cooper S, and VW Touareg, T5, as well as for Mercedes Diesel engines OM604, OM605, OM606, BMW engines M52 (6-cyl.), M60 (8-cyl.), M70 (12 cyl), and the VW VR6 engine.**

This oil filter socket is intended for the removal and installation of the oil filter cover when replacing the oil filter cartridge.

#### Technical Data:

Drive:	3/8"
Size:	36mm

## KL-0122-51

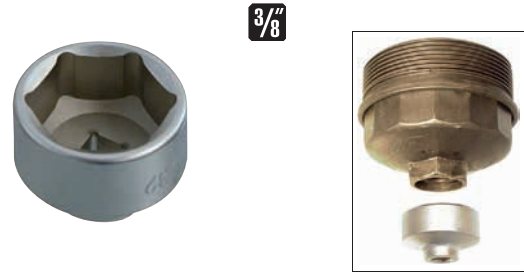
### Oil Filter Socket, Size (waf) 32mm

Suitable for use on Opel/Vauxhall; e.g. X10XE, X12XE, Y17DT, Y17DTL engines, Mercedes HGV, e.g. OM364, OM366 engines, and Škoda Superb.

This oil filter socket is intended for the removal and installation of the oil filter cover when replacing the oil filter cartridge.

**Technical Data:**

Drive:	3/8"
Size (waf):	32mm



## KL-0122-52

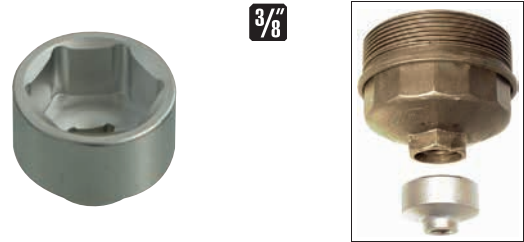
### Oil Filter Socket, Size (waf) 27mm

Suitable for use on Mercedes, e.g. A-Class (W169), B-Class (W245), C-Class (W204) and Smart.

This oil filter socket is intended for the removal and installation of the oil filter cover when replacing the oil filter cartridge.

**Technical Data:**

Drive:	3/8"
Size (waf):	27 mm



## KL-0122-59 A

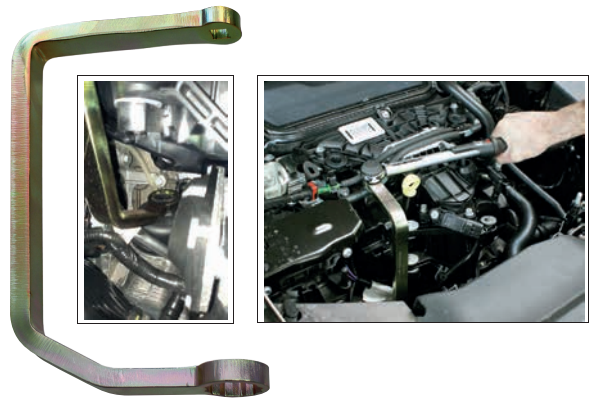
### Oil Filter Socket Wrench, Size (waf) 27mm

Suitable for use on the following TwinCam (DOHC) Diesel engines: PSA and Ford 2.0 Hdi and Duratorq TDCi (DW10C), as well as PSA, Ford and Jaguar 2.2 Hdi and Duratorq TDCi (DW12C). For example, fitted to Peugeot 308, 3008, 5008, 407, 407 Coupé, 508, RCZ; Citroën C4 Picasso, C5, C5 Mk2, C8, DS4, DS5; Ford Mondeo Mk3, C-Max, Galaxy Mk2, Galaxy Mk3, S-Max, Kuga and Jaguar XF 2.20 Sportbrake.

This oil filter wrench is designed for the removal and installation of oil filter covers that are difficult to access. An indispensable tool when replacing the oil filter cartridge.

**Technical Data:**

Size:	27mm
Drive (square):	3/8"
Length:	234mm



## KL-0122-3300 K

(Universal)

### Set of Oil Filter Sockets, in a Plastic Storage Case

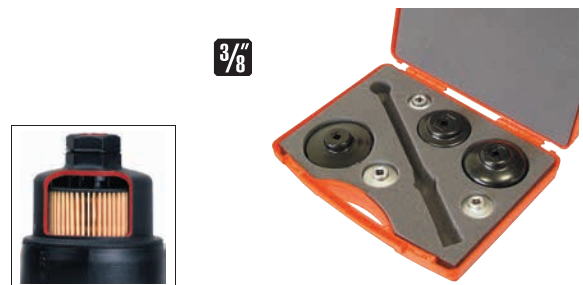
Universally applicable, e.g., to: VW-Audi e.g.: TDI - Golf (III), Passat, A4; TDI PD - A2, A3, A4, A6, TT, Lupo, Polo, Golf (IV and V), Passat, Sharan, Touareg, T4, T5; BMW e.g.: 1 Series (E87), 3 Series (E36, E46), 5 Series (E39, E60), 7 Series (E38, E65), Z3, Z4, X3, X5; Mini e.g.: Mini One, Cooper, Cooper S; Mercedes e.g.: A-, C-, E- and S-Class as well as Sprinter; Opel/Vauxhall e.g.: Agila, Astra (G and H), Corsa C, Meriva, Signum, Vectra (B and C), Zafira.

Universal application. The set covers most vehicles equipped with a paper oil filter and either a plastic or metal screw cap.

When installing the oil filter, the plastic or metal screw cap must be tightened to a given torque. Non-observance can lead to damage to the plastic screw cap. The new KL-0122-3300 K oil filter tool set with its 6 oil filter sockets, together with the torque wrench 4549-05 (accessory), is the perfect solution for this job.

**Scope of Delivery: KL-0122-3300 K Set of Oil Filter Sockets**

Part No.	Description	Qty
KL-0122-301	Oil Filter Socket, 74mm, 14 flats	1
KL-0122-313	Oil Filter Socket, Ø 96mm, 18 ribs	1
KL-0122-326	Oil Filter Socket, 86mm, 16 flats	1
KL-0122-5	Oil Filter Socket, 36mm	1
KL-0122-51	Oil Filter Socket, 32mm	1
KL-0122-52	Oil Filter Socket, 27mm	1
KL-0122-3390	Plastic Storage Case	1



Accessorie:  
4549-05 - TORCOFIX K Code: 1545140  
5-50Nm, Length: 335mm, Scaling: 0.25Nm, Weight: 540g



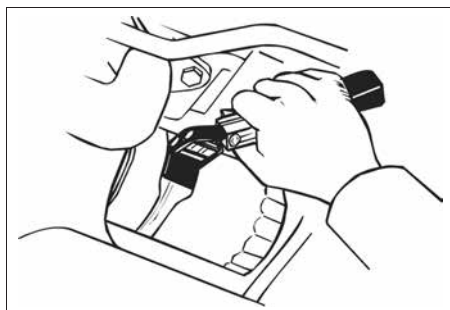
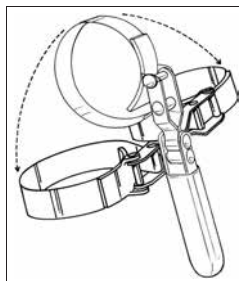
**Technical Data:**

Length:	334.5mm
Weight:	540g
Nm:	5-50
lbf-ft:	3.5-37

## 4549-05

### Torque Wrench TORCOFIX K

- Controlled screw tightening in the range of 5-50Nm.
- Adjustable torque wrench with square drive and integrated ratchet-head function.
- For controlled bi-directional tightening.
- 3/8" interchangeable mushroom head square drive with ball-locking mechanism DIN 3120 - A 6,3, ISO 1174.
- In accordance with DIN EN ISO 6789, traceable to national norms.
- Lever-breaking mechanism with a castor guarantee tactile-impulse and audible actuation signals.
- Actuation accuracy: +/- 3% tolerance of the scale set torque.
- Robust, satin-matt chrome-plated steel tube construction with chrome-plated ratchet and high-quality plastic components.
- Double scale N-m and lbf-ft underneath a window with a magnifying-glass effect.
- Additional micrometer scale with a N-m-graduation of 0.25Nm.
- Ergonomically shaped handy black plastic handle.
- Handle with an indentation in the middle of the handgrip as a calibration aid.



## KL-0122-80..

### "Swivel Grip" Oil Filter Wrench

Designed to loosen oil filters. Self-adjusting mechanism allows the stainless steel band to re-adjust itself while loosening the filter. Swivel handle can be angled up to 90° via a pivot joint. THE ideal tool for use in confined spaces.

## KL-0122-801 "Swivel Grip" Oil Filter Wrench, Ø 60-66mm

**Technical Data:**

Range:	Ø 60-66mm
Weight:	310g

## KL-0122-802 "Swivel Grip" Oil Filter Wrench, Ø 73-82mm

**Technical Data:**

Range:	Ø 73-82mm
Weight:	370g

## KL-0122-803 "Swivel Grip" Oil Filter Wrench, Ø 89-98mm

**Technical Data:**

Range:	Ø 89-98mm
Weight:	370g

## KL-0122-804 "Swivel Grip" Oil Filter Wrench, Ø 105-112mm

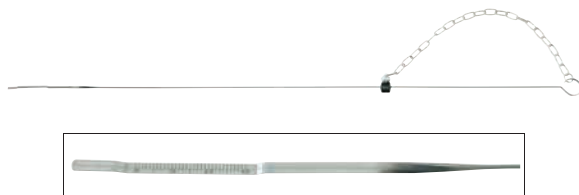
**Technical Data:**

Range:	Ø 105-112mm
Weight:	400g

6

## KL-0288-80

### Oil Dipstick for VW-Audi



Suitable for use on VW-Audi vehicles equipped with either a petrol or Diesel direct-injection engine and an electronic oil level indicator (1.8 TFSI, 2.0 TFSI, 3.0 TFSI, 3.2 FSI, 2.0 TDI, 2.7 TDI and 3.0 TDI); e.g. found on Audi A4, A5, A7, A8, Q5 and VW Touareg.

Designed to manually check the engine oil level; for example, necessary when the oil sensor has been replaced.

## KL-0288-20 K

### Oil Filter Tool Set with Oil Drain Adaptor, VW

Suitable for use on VW-Audi, Seat and Škoda 1.8 and 2.0 FSI/TFSI petrol engines equipped with a plastic oil filter housing. Fitted to, e.g.: Audi A3 (8P1, 8PA), A4 (8EC, 8ED, 8H7, 8HE), A6 (4F2, 4F5), TT (8J3, 8J9); Seat Altea (5P1, 5P5), Leon (1P1), Toledo (III [P2]); Škoda Octavia (1Z3, 1Z5); VW Eos, Golf (V [1K1, 5M1]), Jetta (III [1K2]), New Beetle (9C1, 1C1, 1Y7), Passat (3C2, 3C5), Touran (1T1, 1T2). (Engine codes: AXW, BGB, BLX, BLR, BLY, BVX, BVY, BVZ, BWE)

The oil filter tool set with oil drain adaptor for VW allows the user to professionally drain the engine oil from the oil filter housing. It includes all the necessary tools to open, drain and unscrew/tighten plastic oil filter housings. First, undo the oil drain plug (waf 37mm) on the plastic oil filter housing using the oil drain plug socket. Next, screw oil drain adaptor into oil filter housing. This will cause a valve to open allowing the oil to be drained in a controlled way. Then, the empty oil filter housing can be easily unscrewed with the aid of the 74mm (waf) oil filter socket. The set is also intended to loosen/tighten plastic oil filter housings having a size of 36mm waf.



#### Scope of Delivery:

#### KL-0288-20 K Oil Filter Tool Set with Oil Drain Adaptor, VW

Part No.	Description	Qty
KL-0122-3	Oil Filter Socket, Size (waf) 74mm, 14 Flats	1
KL-0122-5	Oil Filter Socket, Size (waf) 36mm	1
KL-0288-10	Oil Drain Adaptor for Oil Filter	1
KL-0122-54	Oil Drain Plug Socket, Size (waf) 37mm	1
KL-0288-2090	Plastic Storage Case	1

## KL-0288-10

### Oil Drain Adaptor for Oil Filter

Suitable for use on VW-Audi 1.8 and 2.0 litre engines, e.g.: Audi A3 (8P1, 8PA), A4 (8EC, 8ED, 8H7, 8HE), A6 (4F2, 4F5), TT (8J3, 8J9); Seat Altea (5P1, 5P5), Leon (1P1), Toledo (III (5P2)); Škoda Octavia (1Z3, 1Z5); VW Eos, Golf (V [1K1, 5M1]), Jetta (III [1K2]), New Beetle (9C1, 1C1, 1Y7), Passat (3C2, 3C5), Touran (1T1, 1T2). (Engine codes: AXW, BGB, BLX, BLR, BLY, BVX, BVY, BVZ, BWE)

Allows the user to professionally drain the engine oil from the oil filter housing. Then, the empty oil filter housing can be removed without any trouble.

When screwing in the oil filter adaptor, a valve in the oil filter housing will be opened so that the oil can be drained in a controlled way.



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#### Technical Data:

Length of hose:	800mm
Connection thread:	S32x2

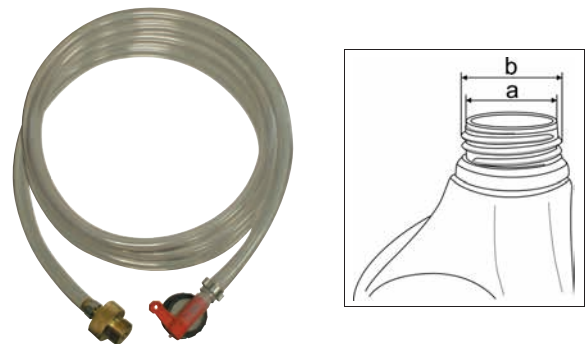
## KL-0288-11

### Oil Filler Adaptor for VW DSG Gearbox

Suitable for use on VW-Audi DSG gearboxes.

This tool is indispensable for the quick, easy and clean filling/re-filling of DSG gearboxes. The oil filler adaptor is screwed directly to the 1 litre oil reservoir (VAG G 052 182 A2).

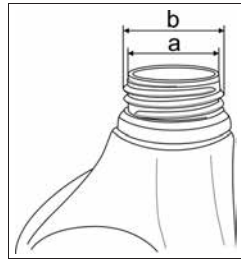
The built-in shut-off valve ensures that the accurate quantity of oil is filled in, as well as professional working.



#### Technical Data:

Hose length:	2m
Gearbox connection thread:	M24x1.5
Dimensions of oil reservoir (a):	34mm
Dimensions of oil reservoir (b):	37.7mm





## KL-0288-12

### Oil Filler Adaptor for Audi DSG Gearbox

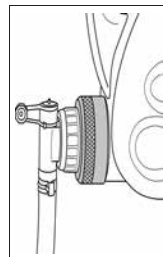
**Suitable for use on Audi DSG gearboxes from 2008 onwards.**

This tool is indispensable for the quick, easy and professional filling/re-filling of DSG gearboxes. The oil filler adaptor is screwed directly to the 1 litre oil reservoir (VAG G 052 529 A2).

The built-in shut-off valve ensures that the accurate quantity of oil is filled in, as well as professional working.

**Technical Data:**

Hose length:	2m
Gearbox connection thread:	M24x1.5
Dimensions of oil reservoir (a):	36.5mm
Dimensions of oil reservoir (b):	39.5mm

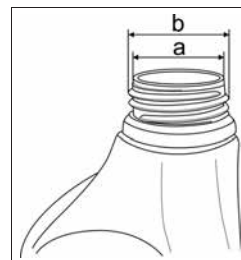


## KL-0288-112

### Adaptor for KL-0288-11

The **KL-0288-112** adaptor is used in conjunction with oil filler adaptor **KL-0288-11**. It is designed to connect DSG gearboxes to the 5 litre oil reservoirs from Febi (32390), Ravenol or Pentosin, thus enabling these gearboxes to be filled up directly.

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## KL-0288-13

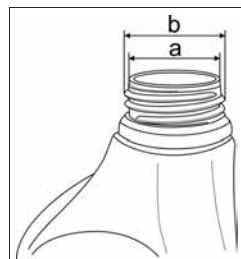
### Oil Filler Adaptor for VW CVT Gearbox (Continuously Variable Transmission)

**Suitable for use on VW-Audi CVT transmissions (continuously variable transmission) (Multitronic).**

This tool is indispensable for the quick, easy and professional filling/re-filling of CVTs (continuously variable transmissions). The oil filler adaptor is screwed directly to the 1 litre oil reservoir (VAG G 052 180 A2). The built-in shut-off valve ensures that the accurate quantity of oil is filled in, as well as professional working.

**Technical Data:**

Hose length:	2m
Gearbox connection thread:	M22x1.5
Dimensions of oil reservoir (a):	36.5mm
Dimensions of oil reservoir (b):	39.5mm



## KL-0288-14

### Oil Filler Adaptor for VW Haldex Clutches

**Suitable for use on VW-Audi Haldex-clutches.**

This tool is indispensable for the quick, easy and professional filling/re-filling of Haldex clutches.

The oil filler adaptor is screwed directly to the 1 litre oil reservoir (VAG G 055 175 A2). The built-in shut-off valve ensures that the accurate quantity of oil is filled in, as well as professional working.

**Technical Data:**

Hose length:	2m
Clutch connection thread:	M10x1
For dimensions of the oil reservoir (a):	34mm
For dimensions of the oil reservoir (a):	37.7mm

# KL-0124-43

## Oil Pump with 12 Litre Reservoir

**Universal field of application.**

**Ideal for use on the gearboxes found in VW-Audi, Ford, BMW, Honda, Nissan, Toyota, Mercedes, Volvo vehicles.**

The oil pump with 12 litre reservoir facilitates the quick and safe filling/topping up of gearbox, differential, engine, power steering etc.

The reservoir can be pressurised quickly and easily with the aid of compressed air. This allows the user to have both hands free to accurately dose the necessary vehicle-specific operating liquid. Alternatively, the filling/topping up can also be carried out by operating the hand pump on the reservoir.

The oil pump with reservoir allows for the quick, easy and professional filling/topping up even in confined space conditions or where access is difficult.

Thanks to the universal and the vehicle-specific adaptors that come with the kit, the oil pump with reservoir is suitable for a wide range of applications.

**Accessories:**

The **KL-0124-433** reservoir (12l) with lid, which is available separately as an accessory, is designed for the quick and safe filling and storage of different types of oil.

**Note:** Additional reservoir with lid available as accessory (to be ordered separately).



**Technical Data:**

Reservoir capacity (with pump):	12 litre
Cracking pressure of the pressure relief valve:	1bar (14psi)
Maximum pressure:	2.5bar (35psi)

**Scope of Delivery:**

**KL-0124-43 Oil Pump with 12 Litre Reservoir**

Part No.	Description	Qty
KL-0124-4311	Reservoir (12l) with Pump	1
KL-0124-4332	Lid	1
KL-0124-4312	Hook	1
KL-0124-4313	Filling Hose with Ball Valve	1
KL-0124-432 K	Adaptors in a Storage Case	1

**Scope of Delivery:**

**KL-0124-432 K Adaptor Assortment, in a Storage Case**

Part No.	Description	Qty
KL-0124-4358-0	Adaptor for VW Gearbox	1
KL-0124-4358-1	Adaptor for Toyota Gearbox	1
KL-0124-4358-2	Adaptor BMW, Honda, Nissan	1
KL-0124-4358-3	Adapter (short) for VW Gearbox	1
KL-0124-4358-4	Adapter (long), for VW Gearbox	1
KL-0124-4358-5	Adaptor for VW Gearbox (M10x1.0)	1
KL-0124-4358-6	Adapter for VW-Audi DSG Gearbox (M24x1.5)	1
KL-0124-4358-7	Adaptor for Audi CVT Gearbox (M22x1.5)	1
KL-0124-4358-8	Adaptor for Mercedes 722.9 Gearbox (M12x1.5)	1
KL-0124-4358-9	Adaptor for Volvo Gearbox (5/16-24)	1
KL-0124-4390	Plastic Storage Case	1



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# KL-0124-433

## Reservoir (12 Litre) with Lid

**Additional reservoir for KL-0124-43 if different types of oil are to be used.**

The **KL-0124-433** reservoir (12 Litre) with lid is designed for the quick and safe filling and storage of different types of oil.

**Scope of Delivery:**

**KL-0124-433 Reservoir (12 Litre) with Lid**

Part No.	Description	Qty
KL-0124-4331	Reservoir (12 Litre) with Lid (empty)	1
KL-0124-4332	Lid without connections	1





## KL-0288-30

### Bit Socket for Oil Drain Plug, VW-Audi

Suitable for use on the VW-Audi 1.2, 1.4, 1.8 and 2.0 TFSi, as well as the 1.6 and 2.0 TDI engines equipped with a plastic oil drain plug (M14x1.5x22mm) with special profile. Engines installed, for example, in Audi A1, A3, A4, A5, Q5 and VW Golf VII etc.

Designed for the professional loosening/tightening of plastic oil drain plugs with special profile as found on oil sumps made of plastic. Necessary, for example, when changing the oil etc.

**Technical Data:**

Size waf (drive):	10mm
Overall length:	35mm

## KL-0231-2

### Multi-Spline Socket, XZN, M16

Applicable to Audi A3, A4, A6; VW Fox, Golf (IV), LT.

This special socket features an inner bore and is therefore the ideal tool for oil drain plugs and oil control plugs on gearboxes.



**Technical Data:**

Drive:	1/2"
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## KL-0122-902

### Oil Service Tool, Size (waf) 8mm/10mm (square)

Applicable to, e.g. Citroën, Renault, Peugeot etc.

Designed to loosen and tighten the oil drain plug at the engine. Also intended for use on the control plug at the gearbox/differential.



**Technical Data:**

Length:	220mm
Weight:	350g
Size waf (external square):	8 and 10mm

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## KL-4041-3045

### Screwdriver Bit Socket, T45

For example, suitable for use on Opel/Vauxhall.

Designed to loosen and tighten the Torx® T45 oil drain plugs.



**Technical Data:**

Drive:	1/2"
Length:	55mm
Weight:	85g

\* = reg. trademark of Acument Intellectual Properties, LLC. USA

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



## KL-4022-241 Socket Insert Set "Ball Head"

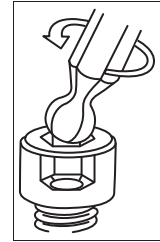
Extra-long design with ball head.  
Ideal for loosening and tightening internal hex socket screws that sit very deep or are hard to access e.g. on the oil pan, cylinder head, engine, drive, etc.

**Application examples:**

- **KL-4022-2405** For oil sump bolts in VW T4 5-cylinder engines.
- **KL-4022-2408** Removal and installation of knock sensor on Audi V6 engines.

**Scope of Delivery: KL-4022-241 Socket Insert Set "Ball Head"**

Part No.	Description	Qty
KL-4022-2405	Socket Insert, „Ball Head“, Size (waf) 5	1
KL-4022-2406	Socket Insert, „Ball Head“, Size (waf) 6	1
KL-4022-2408	Socket Insert, „Ball Head“, Size (waf) 8	1
KL-4022-2410	Socket Insert, „Ball Head“, Size (waf) 10	1



**Technical Data:**

Drive:	1/2"
Length:	288mm

## KL-0100-6 Extension (Length 600mm)

This tool is essential when performing work at the gearbox, engine and exhaust system.

**Technical Data:**

Drive:	1/2" to 3/8"
Length:	600mm



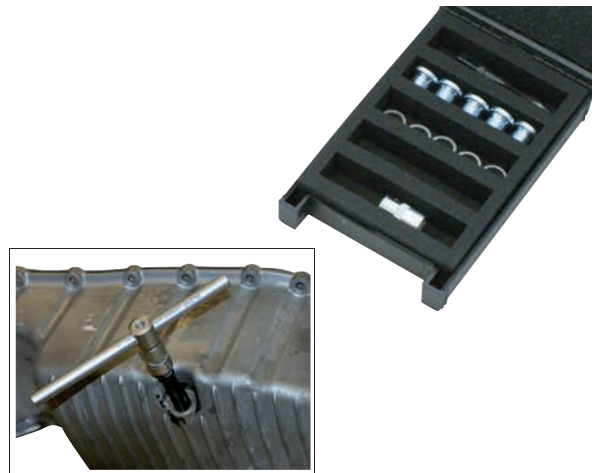
## KL-0132-47 K Repair Kit for M12x1.5 Oil Drain Thread

**Suitable for use on Alfa Romeo, Fiat and Lancia 1.4 litre Turbo such as Alfa Romeo Mito, Giulietta; Fiat Nuova 500 Abarth, Grande Punto, Nuova Bravo and Lancia Nuova Delta.**

This repair kit is designed to repair the M12x1.5 oil drain plug retaining thread at the oil sump. By means of the special tap included in the kit, the old thread is drilled out and a new M14x1.5 sump plug retaining thread is being recut at the same time.

**Scope of delivery: KL-0132-47 K Repair Kit for M12x1.5 Oil Drain Thread**

Part No.	Description	Qty
KL-0132-4701	Special Tap for M12x1.5 Thread	1
KL-0132-4702	Set of Sump Screw Plugs, M14x1.5 (5-pc.)	1
KL-0132-4703	Set of Aluminium Sealing Rings, Ø 14x18x1.5mm (5-pc.)	1
KL-0132-123	Square Bit Holder, 10mm (waf), 3/8" drive	1
KL-0132-1290	Plastic Storage Case	1



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## KL-0132-48 K Repair Kit for M14x1.5 Oil Drain Plug Thread

This repair kit is designed to repair the M14x1.5 oil drain plug retaining thread at the oil sump. By means of the special tap included in the kit, the old thread is drilled out and a new M15x1.5 sump plug retaining thread is being recut at the same time.

**Scope of Delivery: KL-0132-48 K Repair Kit for M14x1.5 Oil Drain Plug Thread**

Part No.	Description	Qty
KL-0132-481-1	Special Tap for M14x1.5 Thread	1
KL-0132-482	Set of Sump Screw Plugs, M15x1.5 (5-pc.)	1
KL-0132-484	Set of Aluminium Sealing Rings, Ø 15x20x1.3mm (5-pc.)	1
KL-0132-123	Square Bit Holder, 10mm (waf), 3/8" drive	1
KL-0132-1290	Plastic Storage Case	1





## KL-0132-49 K Repair Kit for M16x1.5 Oil Drain Thread

This repair kit is designed to repair the M16x1.5 oil drain plug retaining thread at the oil sump. By means of the special tap included in the kit, the old thread is drilled out and a new M17x1.5 sump plug retaining thread is being recut at the same time.

### Scope of Delivery:

#### KL-0132-49 K Repair Kit for M16x1.5 Oil Drain Thread

Part No.	Description	Qty
KL-0132-4901	Special Tap for M16x1.5 Thread	1
KL-0132-4902	Set of Sump Screw Plugs, M17x1.5 (5-pc.)	1
KL-0132-4903	Set of Sealing Rings (5-pc.)	1
KL-0132-123	Square Bit Holder, 10mm (waf), 3/8" drive	1
KL-0132-1290	Plastic Storage Case	1



## KL-0132-590 KA Thread Repair Kit

**Applicable to glow plug threads M10x1 and M12x1.25 as well as oil sump plug thread M14x1.5 and M16x1.5; also suitable for injector nozzle fixing screw thread M6.**

This tool set is indispensable for the quick and easy cleaning or repair of threads on aluminium cylinder heads and aluminium oil sumps.

### Field of application: Aluminium Cylinder Head:

Glow plug thread: The dirty thread M10x1 is cleaned and recut by using the thread cleaning tool.

The damaged thread is drilled up by means of the special drill. Then, with the aid of the special tap, a new thread with M12x1 or M14x1.25 is cut to retain the threaded inserts with an internal thread of M10x1 or M12x1.25.

Injector nozzle fixing screw thread: The M6 threaded inserts are screwed into the injector nozzle fixing screw thread that has been drilled up to M8x1 for the repair.

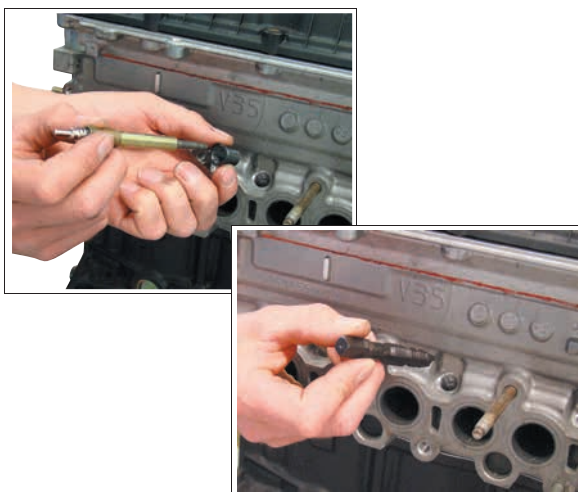
### Field of application: Aluminium Oil Sump:

With the aid of the special tap (M14x1.5 or M16x1.5), the old thread is drilled out and a new sump plug retaining thread is being cut at the same time.

### Scope of Delivery:

#### KL-0132-590 KA Thread Repair Kit

Part No.	Description	Qty
KL-0132-583	Set of Threaded Sleeves, M6, 20mm long (10-pc.)	1
KL-0132-123	Square Bit Holder, 10mm (waf), 3/8" Drive	1
KL-0132-481-1	Special Tap for M14x1.5	1
KL-0132-482	Set of Sump Screw Plugs (5-pc.)	1
KL-0132-484	Set of Aluminium Sealing Rings, Ø 15x20x1.3mm (5-pc.)	1
KL-0132-4901	Special Tap for M16x1.5	1
KL-0132-4902	Set of Sump Screw Plugs, M17x1.5 (5-pc.)	1
KL-0132-4903	Set of Sealing Rings (Aluminium), Ø 24x17.1x1.5mm (5-pc.)	1
KL-0132-501-1	Special Drill for Threaded Inserts, M12x1.25	1
KL-0132-502-1	Special Tap for Threaded Inserts, M12x1.25	1
KL-0132-412	Threaded Inserts, M12x1.25x11 (10 units)	1
KL-0132-511-1	Thread Cleaning Tool, M10x1	1
KL-0132-512 A	Threaded Inserts, M10x1x10 (10 units)	1
KL-0132-513-1	Special Drill for Threaded Inserts, M10x1	1
KL-0132-514-1	Special Tap for Threaded Inserts, M10x1	1
KL-0132-5990	Plastic Storage Cse	1

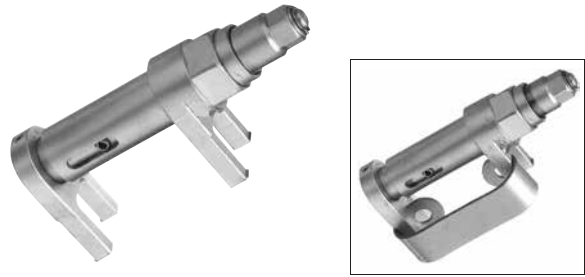


## KL-0284-21

### Exhaust Spring Clamp Tool (short design), Length 145mm

**Intended for use on the exhaust steel clamps of VW Golf, Passat, etc.**

For the removal and replacement of steel clamps on the flange on exhaust manifolds, as installed in **VW, Audi, Seat and Škoda** vehicles.



## KL-0121-171

### Exhaust Manifold Clamp Pliers with Locking Lever

**Applications: Citroën, Renault, Peugeot etc.**

The **KL-0121-171** pliers enable the easy and trouble-free widening of exhaust manifold clamps, e.g. on the silencer. The built-in locking lever ensures that the widened exhaust manifold clamp is kept open safely.

**Technical Data:**

Length:	300mm
Weight:	600g



## KL-0132-8

### Lambda Sensor Socket, 17mm (waf), hexagonal

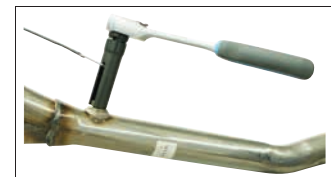
Designed for the removal and installation of Lambda sensors on **Nissan, Renault** and other vehicles.

**Technical Data:**

Size (waf):	17mm
Drive:	1/2", axial
Length:	100mm
Weight:	260g



1/2"



## KL-0132-81

### Lambda Sensor Socket, 22mm (waf), hexagonal

**Ideal for the Mercedes M111 etc.**

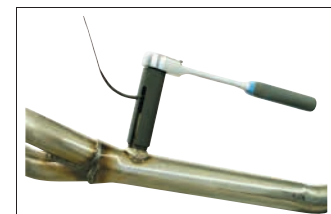
For removing and installing lambda sensors with a deep-seated hexagon.

**Technical Data:**

Size (waf):	22mm
Drive:	1/2", axial
Length:	110mm
Weight:	300g



1/2"



**Accessories (on demand):**

1993 U-20 CODE:1436686 - Reversible ratchet





1/2"



## KL-0132-84

### Lambda Sensor Socket, 22mm (waf), hexagonal

**Applicable to Ford Fiesta VI (models from 07/2008 onwards) 1.25 Zetec S DOHC EFI; 1.4 Zetec DOHC EFI and 1.6 Zetec DOHC EFI engines.**

This tool is required for the quick and trouble-free removal and installation of Lambda sensors. Due to its special design, this socket is particularly suitable for Lambda sensors having a very deep-seated hexagon or fitted with a heat shield.

**Technical Data:**

Size (waf):	22mm
Drive:	1/2"
Length:	110mm

## KL-0132-6

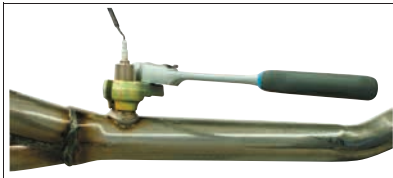
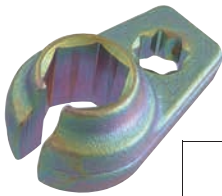
### Lambda Sensor Socket, 22mm (waf)

**Applications: VW-Audi, BMW, Mercedes, Ford, Opel/Vauxhall, Peugeot, Citroën, Renault, Seat, Škoda, Japanese cars, etc.**

Facilitates the removal and installation of hard-to-reach Lambda sensors.

**Technical Data:**

Size (waf):	22mm
Drive:	1/2", axially displaced
Length:	110mm
Weight:	234g



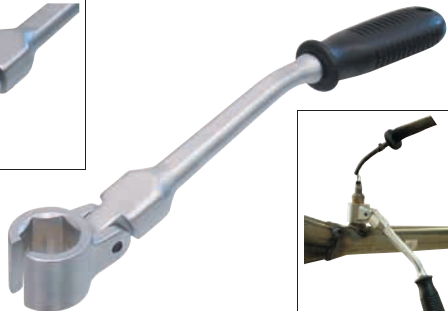
## KL-0132-82 A

### Lambda Tool Kit, Size (waf) 22mm

This tool is designed for the quick and easy removal and replacement of Lambda sensors that are hard to access, e.g. when the Lambda sensor is located directly in front of the splashboard. The pivot head features a hexagonal socket on one side and a bihexagonal socket on the other side.

**Technical Data:**

Size (hexagonal / bihexagonal):	22mm waf
Length:	280mm
Weight:	480g



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## KL-0132-12 K

### Lambda Sensor Tool Kit

**Suitable for Lambda sensor thread M18x1.5.**

If damage occurs to the thread of the exhaust manifold while replacing a Lambda sensor, the thread can be recut with the aid of the **KL-0132-120-1** screw tap (for M18x1.5 thread). If this is not possible, the damaged thread can be drilled out using the special screw tap **KL-0132-121-1** and a new thread M20x1.5 can be recut at the same time to retain the **KL-0132-122** threaded inserts with internal thread M18x1.5.

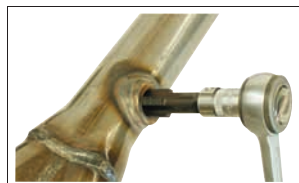
**Technical Data:**

Lambda-Probe Thread:	M18x1.5
Weight:	498g

**Scope of Delivery:**

**KL-0132-12 Lambda Sensor Tool Kit**

Part No.	Description	Qty
KL-0132-120-1	Screw Tap, M18x1.5	1
KL-0132-121-1	Special Screw Tap (for M18x1.5)	1
KL-0132-122	Threaded Inserts M18x1.5 (10 pcs.)	1
KL-0132-123	Square Bit Holder, 10mm (waf), 3/8" drive	1
KL-0132-1290	Plastic Storage Case	1



**Accessories (on demand):**

**1993 U-20** CODE:1436686 - Reversible ratchet



## KL-0131-5 Chain Pipe Cutter

**Universal.**

Allows the professional cutting of exhaust pipes up to a diameter of 85mm at only 90° rotation.

Big cutting wheels with a Ø of 19mm enable trouble-free separation of even corroded exhaust pipes up to a thickness of 3.0mm.

**Technical Data:**

Weight:	490g
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KL-0131-5001



## KL-0131-5001 Spare Chain

## KL-0131-51 Chain Pipe Cutter

This tool is used to cut exhaust pipes with a wall thickness of up to 2.5mm and a Ø of 70mm.

Also suitable for stainless steel pipes.

Thanks to the special design of the tool, only a minimum expenditure of force is required throughout the whole cutting operation.

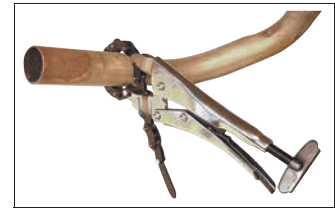
The wing screw allows for the necessary adjustment while cutting.

**Technical Data:**

Length:	250mm
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**Note:**

By attaching a second chain, the cutter can be used on pipes with larger diameters.



KL-0131-5101



## KL-0131-5101 Spare Chain

**Technical Data:**

Length:	270mm
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## 224021 CODE 1600885

## Ratchet Pipe Cutter niro

Body in zinc-plated pressure-cast aluminium, for pipes 35-66mm Ø, cutting wheel made from high-alloy stainless steel, especially for cutting stainless steel pipes with high service life. Easy handling via ratchet feed with automatic infeed of the cutting wheel with every rotation, even in confined spaces.

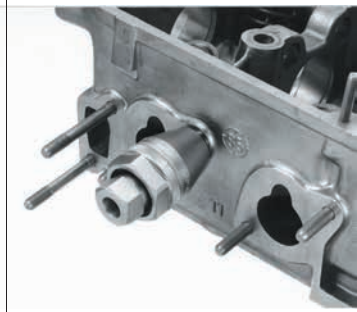
**Technical Data:**

Length:	275mm
Weight:	580g



## 224211 Replacement Cutting Wheel





## KL-0181-1 Stud Tool, 3/8"

(Universal)

**Universal tool, infinitely adjustable.**

Designed to screw in and unscrew studs with diameter of 6-12mm.

**Advantages:**

- Infinitely adjustable.
- Suitable for use in very limited space conditions.
- Also suitable for screws with rusted or stripped threads.
- Also suitable for screws with undersize.

**Technical Data:**

Drive:	3/8"
Clamping range:	6-12mm
Weight:	450g

## KL-0185-5 Drill Guide Kit

(Universal)

This universal adjustable drill guide kit allows broken or sheared studs-especially on cylinder-heads or exhaust manifolds to be quickly and accurately extracted, without the need to remove the cylinder-head. (Male Thread M8 and M10)

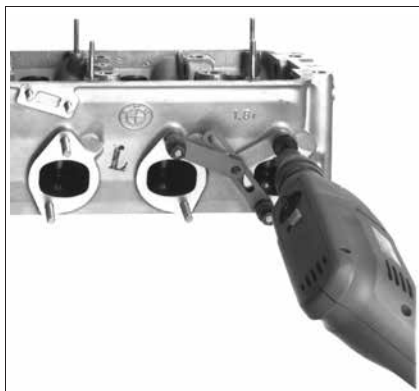
**Advantage:**

- Time savings of between 2 and 4 hours can be achieved as the cylinder head has not to be removed from the vehicle.

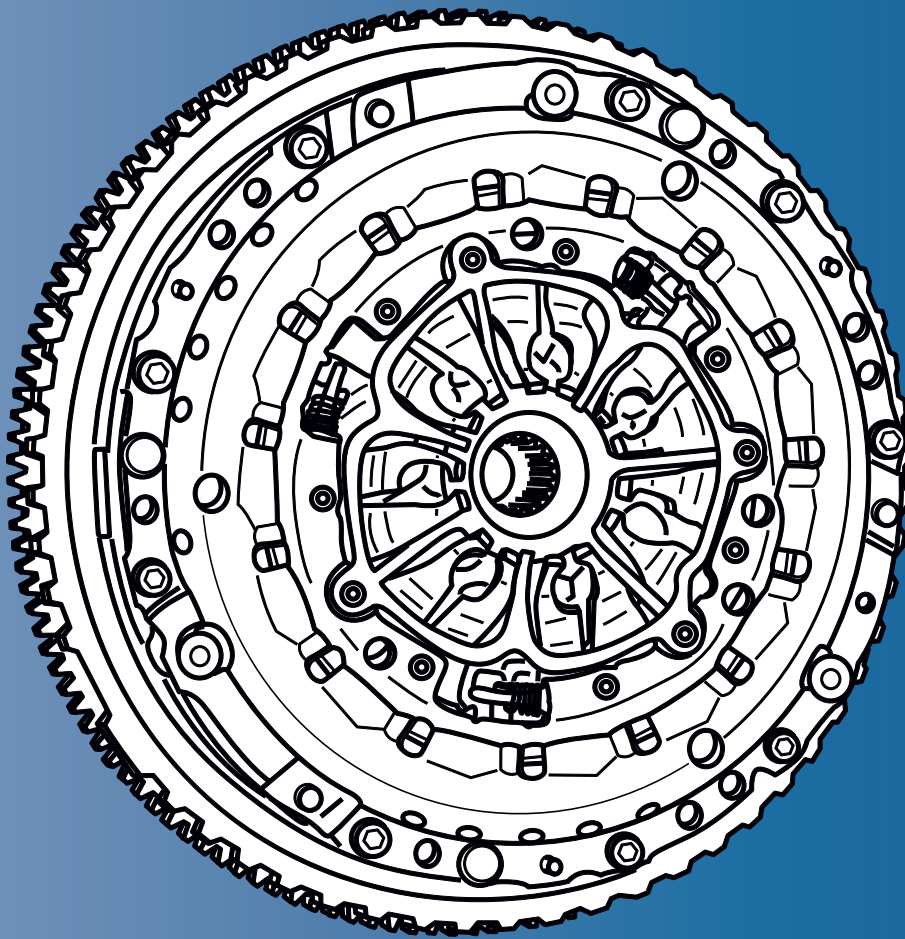
**Scope of Delivery:**

**KL-0185-5 Drilling Guide Set**

Part No.	Description	Qty
KL-0185-5001	Drill Guide Jig (complete)	1
KL-0185-5002	Centring Pin (conical)	3
KL-0185-5003	Guide Sleeve, Ø 8mm	3
KL-0185-5004	Guide Sleeve, Ø 10mm	3
KL-0185-1015	Hex Shoulder Nut, M8	2
KL-0185-5005	Hex Shoulder Nut, M10	2
KL-0185-1005/1	Drill Bush, 4.0mm, with Cylindrical Pin	1
KL-0185-1005/2	Drill Bush, 6.5mm, with Cylindrical Pin	1
KL-0185-1005/3	Drill Bush, 8.5mm, with Cylindrical Pin	1
KL-0185-1007/2	Guide Sleeve, M8	1
KL-0185-5007	Guide Sleeve, M10	1
KL-0185-1003/1	Drill Limit Stop, 4.0mm, with Cheese Head Screws	1
KL-0185-1003/2	Drill Limit Stop, 6.5mm, with Cheese Head Screws	1
KL-0185-1003/3	Drill Limit Stop, 8.5mm, with Cheese Head Screws	1
KL-0185-5008	Hexagon Socket Key, 2mm	1
KL-0050-0023	Hexagon Socket Key, 4mm	1
KL-0185-5010	Hexagon Socket Key, 5mm	1
KL-0185-1009	Twist Drill, Ø 4.0mm	1
KL-0185-1010	Twist Drill, Ø 6.5mm	1
KL-0185-1011	Twist Drill, Ø 8.5mm	1
KL-0185-5020 A	Plastic Storage Case	1



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## Clutch Repairs

7

## KL-0500-45 KA Clutch Tool Set (SAC), in a Plastic Storage Case

(Pat.)



**Suitable for Self-Adjusting Clutches (with 6 and 8 bolt holes); e.g. on VW-Audi, BMW, Mercedes, Volvo, Opel/Vauxhall, Renault etc.**

The **KL-0500-45 KA** clutch tool set is indispensable for the professional removal and installation of Self-Adjusting Clutches (SAC).

Correct removal and installation of this type of clutch is virtually impossible without the use of our tool set. Using the wrong tool risks damaging or distorting the clutch. This will result in incorrect separation or 'grabbing' of the clutch. Distorted or incorrectly mounted clutches are defective and must always be replaced.

The **KL-0500-45 KA** tool set prevents damage to the SAC when removing and installing it. Also, the risk of distorting the adjuster ring in the clutch pressure plate is eliminated using this tool.

The newly developed clutch aligner **KL-0500-405** enables clutch discs to be centred also on vehicles that do not feature a pilot bearing in the crankshaft. The two clamping-/centring elements ensure, on the first clamping element ( $\varnothing$  15-28mm) the accurate centring in the clutch disc, and on the second element ( $\varnothing$  12-28mm) the accurate centring in the pilot bearing, respectively the crankshaft bore.

Even clutches on engines where the crankshaft bore  $\varnothing$  is greater than the clutch disc hub  $\varnothing$  can be aligned neatly and accurately thanks to this tool.

### Advantages:

- Enables the clutch pressure plate to be pretensioned during removal and installation (important as a means of avoiding distortion on the clutch).
- Enables the clutch disc to be centred relative to the pilot bearing or to the pressure plate.
- Enables the adjuster ring to be reset, when used in conjunction with reset tool **KL-0500-403**.

### Example of Clutch (SAC) Removal



1. Insert clutch aligner into clutch and tighten it.



2. Unscrew 3x clutch pressure plate fastening screws. Replace with threaded bolts. Install clutch pre-compressor.



3. Compress diaphragm spring. Unscrew remaining fastening screws. Release pressure on diaphragm spring.



4. Remove knurled nuts and clutch pre-compressor. Remove clutch aligner and threaded bolts.



5. Remove clutch pressure plate.



6. Remove clutch disc.

KL-0500-45 KA Clutch Tool Set (SAC), in a Plastic Storage Case

(Pat.)

**Resetting the Adjuster Ring**



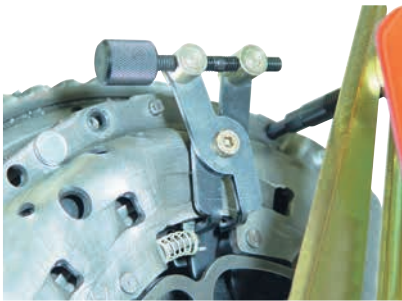
7. Install clutch pressure plate without clutch disc.



8. Screw in threaded bolts.  
Mount clutch pre-compressor.



9. Compress diaphragm spring.



10. Insert reset tool. Turn back adjuster ring.



11. Release pressure on diaphragm spring.  
Remove reset tool.



12. Remove knurled nuts, clutch pre-compressor and threaded bolts.  
Remove clutch pressure plate.

**Example of Clutch (SAC) Installation**



13. Insert clutch aligner and clutch disc into flywheel. Tighten clutch aligner.



14. Position clutch pressure plate.



15. Screw down threaded bolts.  
Mount clutch pre-compressor.



16. Compress diaphragm spring.  
Screw in fastening screws.  
Release pressure on diaphragm spring.



17. Remove knurled nuts, clutch pre-compressor and threaded bolts.  
Remove clutch aligner.



18. Screw in and tighten down the clutch pressure plate fastening screws.



## KL-0500-45 KA Clutch Tool Set (SAC), in a Plastic Storage Case

(Patented)

**Suitable for Self-Adjusting Clutches (with 6 and 8 bolt holes); e.g. on VW-Audi, BMW, Mercedes, Volvo, Opel/Vauxhall, Renault etc.**

The **KL-0500-45 KA** clutch tool set is indispensable for the professional removal and installation of Self-Adjusting Clutches (SAC).

### Scope of Delivery:

#### KL-0500-45 KA Clutch Tool Set (SAC), in a Plastic Storage Case

Part No.	Description	Qty
KL-0500-401	Clutch-Pretensioning Tool (3-hole pitch)	1
KL-0500-403	Reset Tool	1
KL-0500-404	Set of Clutch-Centring Pins (3-pc)	1
KL-0500-405	Clutch Aligner	1
KL-0500-4014	Upgrade Kit (4-hole pitch)	1
KL-0500-4590	Plastic Storage Case	1

### Scope of Delivery:

#### KL-0500-401 Clutch-Pretensioning Tool

Part No.	Description	Qty
KL-0500-401-1	Clutch-Pretensioning Tool (Base Tool)	1
KL-0500-4006	Knurled Nut	1
KL-0500-4007	Threaded Bolt, M6	1
KL-0500-4008	Threaded Bolt, M7	1
KL-0500-4009	Threaded Bolt, M8	1

### Scope of Delivery:

#### KL-0500-404 Set of Clutch-Centring Pins

Part No.	Description	Qty
KL-0500-11	Clutch-Centring Pin, Ø 23mm	1
KL-0500-12	Clutch-Centring Pin, Ø 28mm	1
KL-0500-21	Clutch-Centring Pin, Ø 32.5mm	1

### Scope of Delivery:

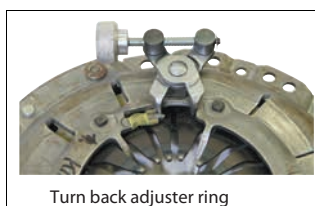
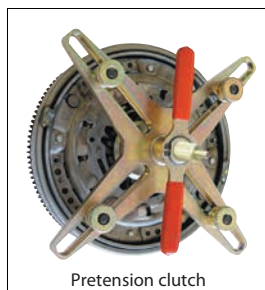
#### KL-0500-405 Clutch Aligner

Part No.	Description	Qty
KL-0500-4050	Guide Tube (complete)	1
KL-0500-4057-1	Centring Pin, Ø 12mm	1
KL-0500-4057-2	Centring Pin, Ø 14mm	1
KL-0500-4057-3	Centring Pin, Ø 15mm	1
KL-0069-0006	Clamping Cone, Size 2, 22mm	1
KL-0500-4055	Cone Adaptor	1
KL-0500-4054	Set of Clamping Elements, Ø 20mm	1
KL-0500-4056-2	Sliding Cone, Ø 15mm, 40mm long	1
KL-0500-4056-3	Sliding Cone, Ø 15mm, 67mm long	1
KL-0500-4056-4	Sliding Cone, Ø 15mm, 75mm long	1
KL-0500-4056-6	Sliding Cone, Ø 18mm, 75mm long	1
KL-0500-4056-5	Sliding Cone, Ø 18mm, 67mm long	1

### Scope of Delivery:

#### KL-0500-4014 Upgrade Kit (4-hole pitch) for KL-0500-40 K and KL-0500-45 K

Part No.	Description	Qty
KL-0500-4006	Knurled Nut	1
KL-0500-4006 A	Knurled Nut	1
KL-0500-4007	Threaded Bolt, M6	1
KL-0500-4008	Threaded Bolt, M7	1
KL-0500-4009	Threaded Bolt, M8	1
KL-0500-4011	Base Plate, with 4-hole pitch	1



## KL-0500-15

### Clutch-Centring Pin, Ø 26.5mm, BMW/Audi

**Applicable to BMW and Audi.**

Designed to align the clutch disc before the re-installation of a pretensioned self-adjusting clutch (SAC). Can also be used to align new and already pretensioned SACs.

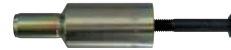


## KL-0500-20

### Clutch-Centring Pin, Ø 26.5mm

**Applicable to BMW E36, E39, E46, E87 equipped with a 55D-250G gearbox.**

This tool is used for centring the clutch disc before the re-installation of a pretensioned self-adjusting clutch (SAC). Can also be used to align new and already pretensioned SACs.



## KL-0500-23

### Clutch-Centring Pin, Ø 32.5mm

**Suitable for the BMW vehicles equipped with a G56-53DG gearbox and S65 (V8) or S85 (V10) engine: E92 (M3), E60 (M5) and E63 (M6).**

This tool is used for centring the clutch disc before installing or re-installing a self-adjusting clutch (SAC).



## KL-0500-22

### Clutch-Centring Sleeve, Ø 32.5mm, BMW

**Suitable for BMW vehicles with a N54B30 engine, e.g. E90/E91/E92/E93 (335i)**

This tool is used for centring the clutch disc before installing or re-installing a self-adjusting clutch (SAC)

**Technical Data:**

Inner Ø:	15mm
Outer Ø:	32.5mm

**Scope of Delivery:**

**KL-0500-22 Clutch Centring Sleeve Ø 32.5 mm**

Part No.	Description	Qty
KL-0015-0010 A	Hex screw M5x45mm	1
KL-0500-2201	Centring sleeve	1



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## KL-0149-131

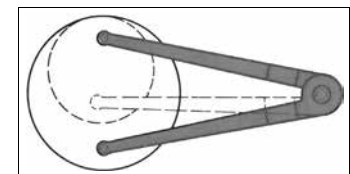
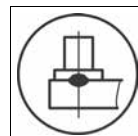
### Pin-Type Face Spanner, Ø 14-100mm, Pin Ø 5mm

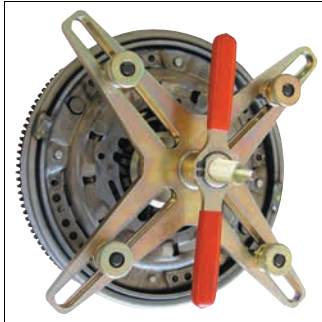
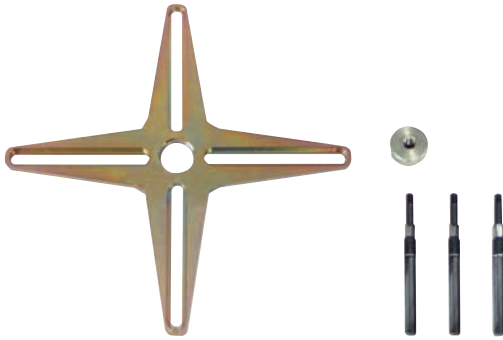
**Suitable for VW-Audi, Fiat etc.**

Designed to remove the pre-tension ring when installing a new SAC (Self-Adjusting Clutch) on Audi, Fiat etc.

**Technical Data:**

Ø:	14-100mm
Pin Ø:	5mm
Pin height:	6mm
Overall length:	215mm
Weight:	300g





## KL-0500-4014

Upgrade Kit (4-hole pitch)  
for KL-0500-40 K and KL-0500-45 K

Base plate with 4-hole pitch. Required for pretensioning the clutch pressure plate before removing and installing a SAC featuring 8 bore holes.

**Scope of Delivery:**

**KL-0500-4014 Upgrade Kit (4-hole pitch) for KL-0500-40 K and KL-0500-45 K**

Part No.	Description	Qty
KL-0500-4006	Knurled Nut	1
KL-0500-4006 A	Knurled Nut	1
KL-0500-4007	Threaded Bolt, M6	1
KL-0500-4008	Threaded Bolt, M7	1
KL-0500-4009	Threaded Bolt, M8	1
KL-0500-4011	Base Plate, with 4-hole pitch	1



## KL-0500-405

Clutch Aligner

(Patented)

**Suitable for Self-Adjusting Clutches (SAC).**

**Essential tool for vehicles without a pilot bearing in the crankshaft.**

The newly developed clutch aligner **KL-0500-405** enables clutch discs to be centred also on vehicles that do not feature a pilot bearing in the crankshaft. The two clamping-/centring elements ensure, on the first clamping element (Ø 15-28mm) the accurate centring in the clutch disc, and on the second element (Ø 12-28mm) the accurate centring in the pilot bearing, respectively the crankshaft bore.

Even clutches on engines where the crankshaft bore Ø is greater than the clutch disc hub Ø can be aligned neatly and accurately thanks to this tool.

**Scope of Delivery:**

**KL-0500-405 Clutch Aligner**

Part No.	Description	Qty
KL-0500-4050	Guide Tube (complete)	1
KL-0500-4057-1	Centring Pin, Ø 12mm	1
KL-0500-4057-2	Centring Pin, Ø 14mm	1
KL-0500-4057-3	Centring Pin, Ø 15mm	1
KL-0069-0006	Clamping Cone, Size 2, 22mm	1
KL-0500-4055	Cone Adaptor	1
KL-0500-4054	Set of Clamping Elements, Ø 20mm	1
KL-0500-4056-2	Sliding Cone, Ø 15mm, 40mm long	1
KL-0500-4056-3	Sliding Cone, Ø 15mm, 67mm long	1
KL-0500-4056-4	Sliding Cone, Ø 15mm, 75mm long	1
KL-0500-4056-6	Sliding Cone, Ø 18mm, 75mm long	1
KL-0500-4056-5	Sliding Cone, Ø 18mm, 67mm long	1

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## KL-0500-50 K

### Dual Mass Flywheel Wear-Testing Tool (For Testing On The Vehicle)

**Universally suitable for vehicles equipped with Dual Mass Flywheel (DMF).**

Indispensable tool for the quick and professional wear tests of Dual Mass Flywheels (DMF). Tests can be performed directly on the vehicle with the clutch removed. The test involves checking the rock allowance (axial play) and the freeplay angle (torsion of the secondary flywheel against the primary flywheel until the tension of the spring can be felt).

**Note:**

As a rule, Dual Mass Flywheels should always be checked for wear and damage when replacing a clutch. Professional tests are essential as Dual Mass Flywheels that are deteriorated or worn can damage the new clutch as well as the gearbox and drive train.

**Advantages:**

- Universal application.
- Substantial time savings.
- The tool is easy to operate.
- Professional and accurate working.



**Scope of Delivery: KL-0500-50 K Dual Mass Flywheel Wear-Testing Tool  
(on-vehicle tests)**

Part No.	Description	Qty
KL-0500-500 K	Dual Mass Flywheel Wear-Testing Tool	1
KL-4090-302	Torque Angle Gauge	1
KL-0128-1	Dial Gauge, Ø 58mm	1

**Scope of Delivery: KL-0500-500 K Dual Mass Flywheel Wear-Testing Tool  
(without Dial Gauge, Torque Angle Gauge)**

Part No.	Description	Qty
KL-0500-500	Dual Mass Flywheel Wear Testing Tool (for testing on the vehicle)	1
KL-0043-5990	Plastic Storage Case	1

**Scope of Delivery:**

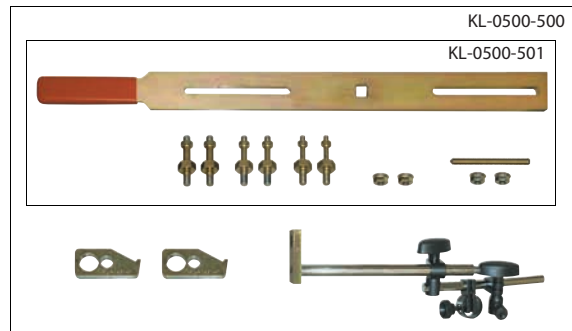
**KL-0500-500 Dual Mass Flywheel Wear-Testing Tool (on-vehicle tests)**

Part No.	Description	Qty
KL-0500-501	Slotted Bar with Fixing Device	1
KL-0500-502	Stand for Dial Gauge	1
KL-0481-7	Flywheel Locking Tool	2

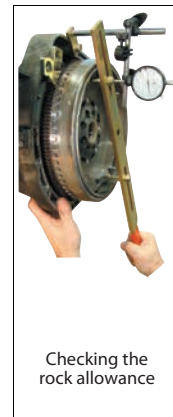
**Scope of Delivery:**

**KL-0500-501 Slotted bar with fixing device**

Part No.	Description	Qty
KL-0500-5010	Slotted Bar with Protective Handle	1
KL-0043-5922	Special Screw, M6	2
KL-0043-5923	Special Screw, M7	2
KL-0043-5924	Special Screw, M8	2
KL-0043-5925	Shoulder Nut, M8	4
KL-0500-5011	Set Screw, M8x80 (pointer)	1



Measuring the freeplay angle by number of teeth



Checking the rock allowance



Measuring the freeplay angle with degree gauge

## KL-0128-1

### Dial Gauge, Ø 58mm

Spindle and clamping shank made of stainless steel, design and measurement accuracy according to DIN 878-A.

**Technical Data:**

Graduation:	0.01mm
Measuring Range:	10mm
Housing -Ø:	58mm
1 pointer revolution:	1mm
Clamping shank Ø:	8mm





## Tools for Double Clutch (Pat.)

### KL-0500-80 K Base Toolkit for Double Clutch

Universally applicable to VW-Audi, Seat, Škoda, Renault and Ford passenger cars with dry double clutch systems. For example: VW-Audi 1st generation transmissions 0AM (until 5/2011), 2nd generation transmissions 0AM (from 6/2011 onwards); Renault DC4 and Ford DPS6 etc.

Having always the right specialist tool at hand is essential for carrying out professional repairs to double clutch systems and to avoid costly damage in the first place.

Used in conjunction with the respective vehicle-specific upgrade kit, the **KL-0500-80 K** base toolkit for double clutches allows for professional repairs to all LuK\* Double Clutch Systems (dry double clutches) that are currently available on the market.

The forward-looking modular concept allows for continuous enhancement of the **KL-0500-80 K** base toolkit for double clutches with vehicle-specific upgrade kits, thus making it applicable also to future double clutch systems.

\*LuK, a member of the Schaeffler Group, is an internationally renowned supplier of clutch- and transmission systems, torque converters and dampers to the Automobile Industry and Aftermarket.



### KL-0500-81 K Upgrade Toolkit for Double Clutch, VW



Applicable to VW-Audi, Seat and Škoda vehicles with dry double clutch systems. For example: 1st generation DSG transmissions 0AM (until 5/2011) and 2nd generation DSG transmissions 0AM (from 6/2011 onwards).

The **KL-0500-81 K** upgrade toolkit for double clutch is designed to be used in conjunction with the **KL-0500-80 K** (LuK 400 0418 10) base toolkit, thus allowing for the professional dismantling, assembly and adjustment of dry double clutch systems found on VW-Audi, Seat and Škoda vehicles.



### KL-0500-71 K Reset Toolkit for Double Clutch



Applicable to Renault and Ford passenger cars equipped with a 6-speed double clutch DC4 transmission (Renault) and DPS6 transmission (Ford) respectively.

The reset toolkit upgrades the base toolkit for double clutch **KL-0500-80 K** (LuK 400 0418 10). The toolkit is designed to professionally reset/re-enable the transport lock of a double clutch that has been removed and is to be re-installed, for example, after repairs to the gearbox.

**Note:** All new double clutches for DC4 (Renault) and DPS6 (Ford) double clutch transmissions come provided with a transport lock. This means that no additional work needs to be carried out before the installation of a new clutch and, consequently, the **KL-0500-71** reset toolkit is not necessary.

### KL-0500-82 K Upgrade Toolkit for Double Clutch, Renault



Applicable to Renault vehicles with dry double clutch systems, e.g. with DC4 transmission.

The **KL-0500-82 K** upgrade toolkit for double clutch is designed to be used in conjunction with the **KL-0500-80 K** (LuK 400 0418 10) base toolkit, thus allowing for the professional dismantling, assembly and adjustment of dry double clutch systems found on Renault vehicles.

### KL-0500-83 K Upgrade Toolkit for Double Clutch, Ford



Applicable to Ford vehicles with dry double clutch systems, e.g. with DPS6 transmissions.

The **KL-0500-83 K** upgrade toolkit for double clutch is designed to be used in conjunction with the **KL-0500-80 K** (LuK 400 0418 10) base toolkit, thus allowing for the professional dismantling, assembly and adjustment of dry double clutch systems found on Ford vehicles.

### KL-0500-61 K Update Toolkit for Double Clutch



The **KL-0500-61 K** update toolkit is designed to complement the previous LuK toolkit for double clutch (LuK 400 0240 10), so that the contents includes all the tools of the current **KL-0500-80 K** base toolkit for double clutch and **KL-0500-81 K** upgrade toolkit for VW.

## KL-0069-5 Clutch Aligner

[Universal]

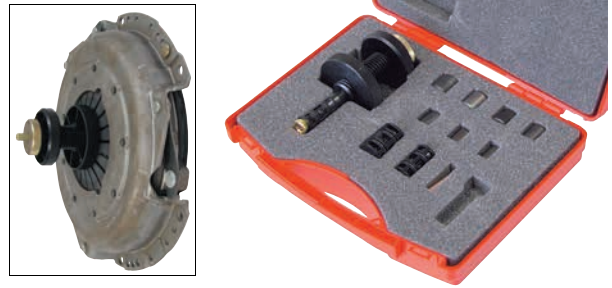
**For Hub Ø: 15-28mm.**

Thanks to the **parallel expansion technique** it is now possible to align the clutch disc either relative to the clutch pressure plate (on vehicles that do not feature a pilot bearing in the crankshaft) or, via the pilot bearing relative to the flywheel.

**Scope of Delivery:**

**KL-0069-5 Clutch Aligner**

Part No.	Description	Qty
KL-0069-55	Clutch Aligner for Passenger Cars	1
KL-0069-5010	Centring Sleeve Set	1
KL-0069-5030	Plastic Storage Case	1



**Advantage:**

The newly-developed parallel expansion technique with self-centring feature ensures that the tool remains accurately positioned in the axis of the clutch disc hub throughout the whole alignment process, thus allowing for precise centring of the clutch disc.

## KL-0069-55 Clutch Aligner for Passenger Cars

[Universal]

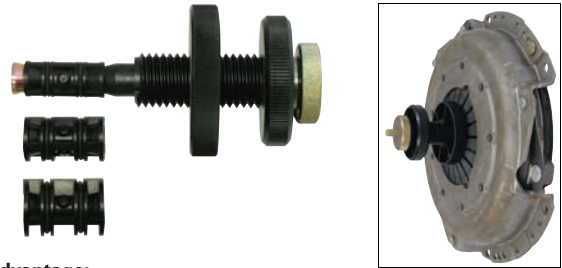
**Suitable for clutch hub Ø: 15-28mm.**

Thanks to the **parallel expansion technique**, it is now possible to align the clutch disc either relative to the clutch pressure plate (on vehicles that do not feature a pilot bearing in the crankshaft) or, via the pilot bearing relative to the flywheel.

**Scope of Delivery:**

**KL-0069-55 Clutch Aligner for Passenger Cars**

Part No.	Description	Qty
KL-0069-500	Clutch Aligner Base Tool	1
KL-0069-5006	Clamping Segment Set, 19mm	1
KL-0069-5007	Clamping Segment Set, 24mm	1



**Advantage:**

The newly-developed parallel expansion technique with self-centring feature ensures that the tool remains accurately positioned in the axis of the clutch disc hub throughout the whole alignment process, thus allowing for precise centring of the clutch disc.

## KL-0069-7 Clutch Aligner, Vans/Small Lorries (LGV)

**Suitable for vans and small lorries (LGV) with a hub Ø of from 24-36mm.**

This clutch aligner is indispensable for the quick and easy centring of the clutch disc/ clutch discs.

The centring takes place via the pilot bearing in the crankshaft.

**Scope of Delivery:**

**KL-0069-7 Clutch Aligner, Vans/Small Lorries (LGV)**

Part No.	Description	Qty
KL-0069-700	Centring Sleeve Set	1
KL-0069-710	Clutch-Centring Pin	1



## KL-0069-7 R Clutch Aligner, Renault

**Intended for use on vans and small lorries (LGV) with a hub Ø of from 23-35mm. An ideal tool for Renault.**

This clutch aligner is indispensable for the quick and easy centring of the clutch disc/ clutch discs.

The centring takes place via the pilot bearing in the crankshaft.

**Scope of Delivery:**

**KL-0069-7 R Clutch Aligner, Renault**

Part No.	Description	Qty
KL-0069-700	Centring Sleeve Set	1
KL-0069-710 R	Clutch-Centring Pin	1



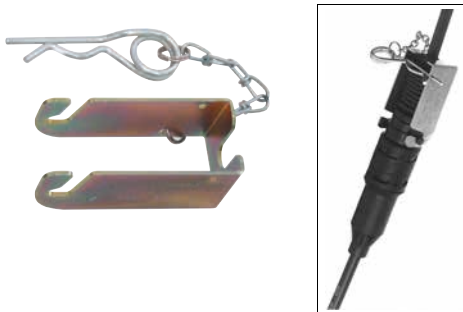


## KL-0201 Clutch Alignment Tool

**Intended for use on: VW Golf vehicles equipped with 1.5-1.8 litre engines.**  
Allows the clutch driving plate to be aligned relative to the flywheel.

## KL-0202 Clutch Alignment Tool

**Intended for use on VW engines featuring 16 valves.**  
Allows the clutch driving plate to be aligned relative to the flywheel.



## KL-0203-1 Clutch Cable Clamp

**Suitable for VW Golf (II and III), etc.**  
When replacing a clutch, the self-adjusting clutch cable needs to be secured with the **KL-0203-1** clamp before removing the clutch. Failure to do so will lead to damage to the clutch cable which, as a result, will have to be renewed completely.



## KL-0118-10 A Pliers for Clutch Master Cylinder Piston Rod

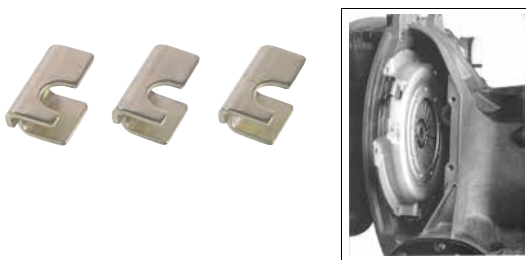
**Applicable to: Vauxhall/Opel: Astra-J, Signum, Vectra-C; Audi: A1 (8X), A3 (8P), A4 (B7), A6 (C6); VW: Golf (1K1), Passat (3B6), Eos (1F) etc.**

The pliers are designed to release the clutch master cylinder piston rod from the clutch pedal quickly and with ease.  
Very useful tool when removing a clutch master cylinder/pedal support bracket.

### Technical Data:

Min. opening distance between jaws:	3mm
Max. opening distance between jaws:	60mm
Overall length:	290mm

7



## KL-0401-2010 Set of Clamps (3-pc.)

**Suitable for Opel/Vauxhall.**  
Used to fix the pretensioned clutch pressure plate.



## KL-0416-4 Clutch Assembly Ring (Plastic), Opel/Vauxhall/Saab

**Suitable for Opel/Vauxhall and Saab passenger cars.**  
For Ø 110-140mm  
Assembly aid to secure and keep the pretensioned diaphragm spring on the clutch pressure plate.

## KL-0043-31 Inner Bearing Extractor Set

**Universally applicable to passenger cars.**

Includes collet chucks with Ø 10-20mm.

This set allows for the quick and professional replacement of pilot-/guide bearings, alternator bearings, etc.

The collets are manufactured from special high-grade steel to ensure proper functioning of the tool.



**Scope of Delivery: KL-0043-31 Inner Bearing Extractor Set**

Part No.	Description	Qty
KL-0043-3101	Spreader, 5mm	1
KL-0043-3102	Spreader, 6mm	1
KL-0049-1013	Slide Weight	1
KL-0043-3107	Collet Chuck, 10mm	1
KL-0043-3108	Collet Chuck, 12mm	1
KL-0043-3109	Collet Chuck, 15mm	1
KL-0043-3110	Collet Chuck, 17mm	1
KL-0043-3111	Collet Chuck, 20mm	1
KL-0043-3115	Plastic Storage Case	1

## KL-0043-32 Inner Bearing Extractor Set

**Applicable to passenger cars and lorries.**

Includes collet chucks with Ø 10-30mm.

This set allows for the quick and professional replacement of pilot-/guide bearings, alternator bearings, etc.

The collets are manufactured from special high-grade steel to ensure proper functioning of the tool.



**Scope of Delivery: KL-0043-32 Inner Bearing Extractor Set**

Part No.	Description	Qty
KL-0043-31	Inner Bearing Extractor Set	1
KL-0043-3112	Collet Chuck, 25mm	1
KL-0043-3113	Collet Chuck, 27mm	1
KL-0043-3114	Collet Chuck, 30mm	1

## KL-0175-70 Internal Extractor Set with Slide Hammer (0.8kg)

**Can be used for a wide range of applications, for example, for clutch pilot bearings.**

This tool set allows for the removal of bearings, bearing shells and bushings, for example, from blind boreholes.

**Scope of Delivery: KL-0175-70 Internal Extractor Set with Sliding Hammer (0.8kg)**

Part No.	Description	Qty
KL-0175-602	Collet Chuck, 12-15mm	1
KL-0175-603	Collet Chuck, 15-19mm	1
KL-0175-604	Collet Chuck, 19-25mm	1
KL-0283-6013	Adaptor for Injector Nozzle Puller, M10	1
KL-0049-100	Slide Hammer Puller (base tool)	1



## KL-0110 A Holding Wrench (Universal)

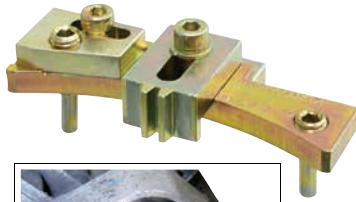
**Universal application.**

Used for locking flywheels.

**Technical Data:**

Length:	250mm
Weight:	0.5kg





## KL-0182-10 A

### Flywheel Locking Tool (adjustable)

This tool is designed to lock the flywheel with the gearbox removed. The tool is axially and radially adjustable and, thus, almost universally applicable - simply by using different stud bolts.

**Technical Data:**

Bolt Ø:	8.5mm
Bolt distance:	92-107mm

## KL-0232-..

### Multi-Spline Sockets

The special socket enables the drive shaft fixing screws to be loosened from the differential flange quickly and easily from the outside. Not intended for use with impact wrenches.

**Advantages:** Substantial time savings.



## KL-0232-1

### Multi-Spline Socket, XZN M8, 800mm

Suitable for VW-Audi, etc.

**Technical Data:**

Size (waf):	XZN M8
Drive:	1/2"
Length:	800mm

## KL-0232-2

### Multi-Spline Socket, XZN M10, 800mm

Suitable for VW Golf IV etc.

**Technical Data:**

Size (waf):	XZN M10
Drive:	1/2"
Length:	800mm

## KL-0232-3

### Multi-Spline Socket, XZN M12, 800mm

Suitable for VW T4, Touareg etc.

**Technical Data:**

Size (waf):	XZN M12
Drive:	1/2"
Length:	800mm

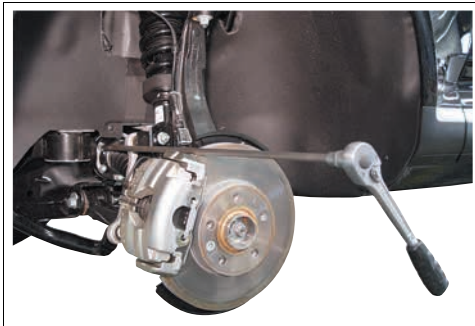
## KL-0232-4

### Multi-Spline Socket, XZN M14, 800 mm

Suitable for VW T4, Touareg etc.

**Technical Data:**

Size (waf):	XZN M14
Length:	800mm
Drive:	1/2"



## KL-0232-8

### Flexible Multi-Spline Bit Socket, XZN M10

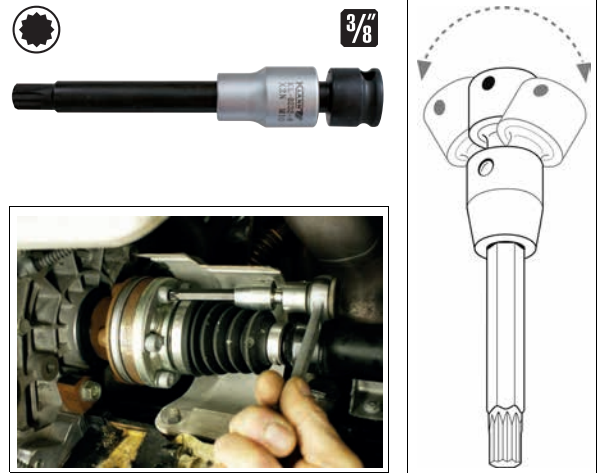
Suitable for VW-Audi, for example VW Golf IV, Passat 3C etc.

For the quick and easy removal and installation of drive shafts. The special design of the socket allows you to easily access the fastening screws that are sometimes difficult to reach. The tool is not designed for use with an impact wrench.

**Advantages:** Substantial time savings.

**Technical Data:**

Size (waf):	XZN M10
Drive:	3/8"
Length:	128mm



## KL-1600-10

### Puller for Clutch Release Shaft, Fiat Ducato

Suitable for Fiat Ducato vehicles (1994 onwards) equipped with a pull-type clutch.

Intended for the removal of clutch release shafts. This tool is necessary when the gearbox needs to be removed, for example when replacing the clutch, or for gearbox repairs.



## KL-1600-11

### Removal Mandrel for Clutch Release Bearing

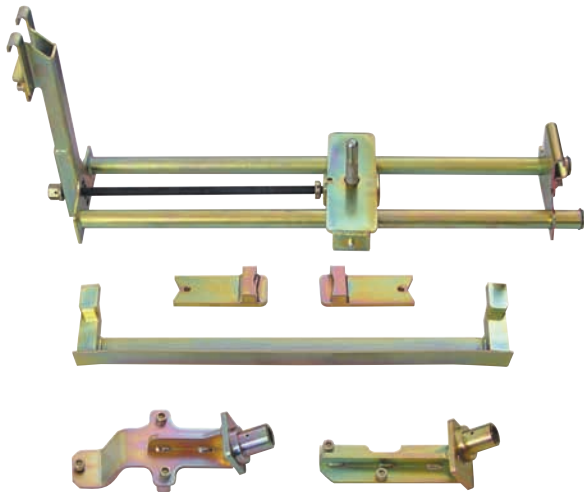
For use on Fiat Ducato vehicles (from 1994 onwards) equipped with a pull-type clutch.

In order to remove the release bearing from the pressure plate, the circlip needs to be pretensioned with the aid of the KL-1600-11 removal mandrel.



**Accessories (on demand):**

- 1993 U-20 CODE:1436686 - Reversible ratchet
- 3093 U-20 CODE:1556800 - Reversible ratchet 3/8" 200mm



## KL-0206-1 Engine Lifter, VW T4

**Suitable for VW T4 Vans (short front end).**

**Designed to lift and pull the engine/gearbox assembly forwards.**

For the removal and installation of the clutch, respectively the gearbox, on VW T4 vehicles, it is essential to support the engine with the **KL-0206-1** engine lifter. After undoing all mounting bolts and connections as well as loosening the exhaust flange, lift and pull/push the engine forwards to the right front side until the pulley of the crankshaft almost touches the subframe.

Only then will it be possible to remove the gearbox and change the clutch.

**Advantages:**

- Easy mounting of the engine lifter to the vehicle.
- Support of upper wishbones by retaining wedges for removal of the drive shaft.
- Support and correct positioning of the engine to any desired position.
- Easy removal and installation of gearbox and clutch.
- Suitable for 4- and 5-cylinder engines.
- Safety fixture avoids caught-in fingers in the tool's support.

**Technical Data:**

Length:	870mm
Height:	365mm
Width:	230mm
Weight:	21.2kg

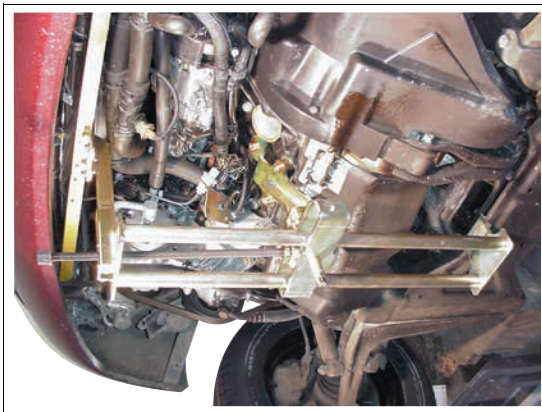
**Note:**

- Removal and installation of gearbox and clutch without engine lifter **KL-0206-1** is a dangerous procedure.
- Centring the clutch can be carried out with the aid of the **KL-0069-5** tool.

**Scope of Delivery:**

**KL-0206-1 Engine Lifter, VW T4**

Part No.	Description	Qty
KL-0206-100	Lifting Frame	1
KL-0206-101	Support	1
KL-0206-102	Retainer for 4-CylinderEngines	1
KL-0206-103	Retainer for 5-Cylinder Engines	1
KL-0206-104	Set of SupportingWedges (2-pc.)	1



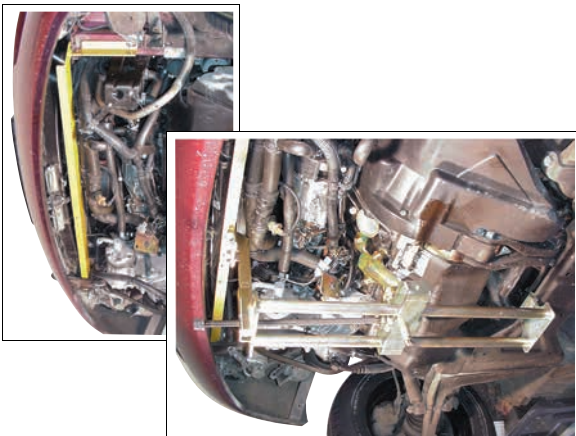
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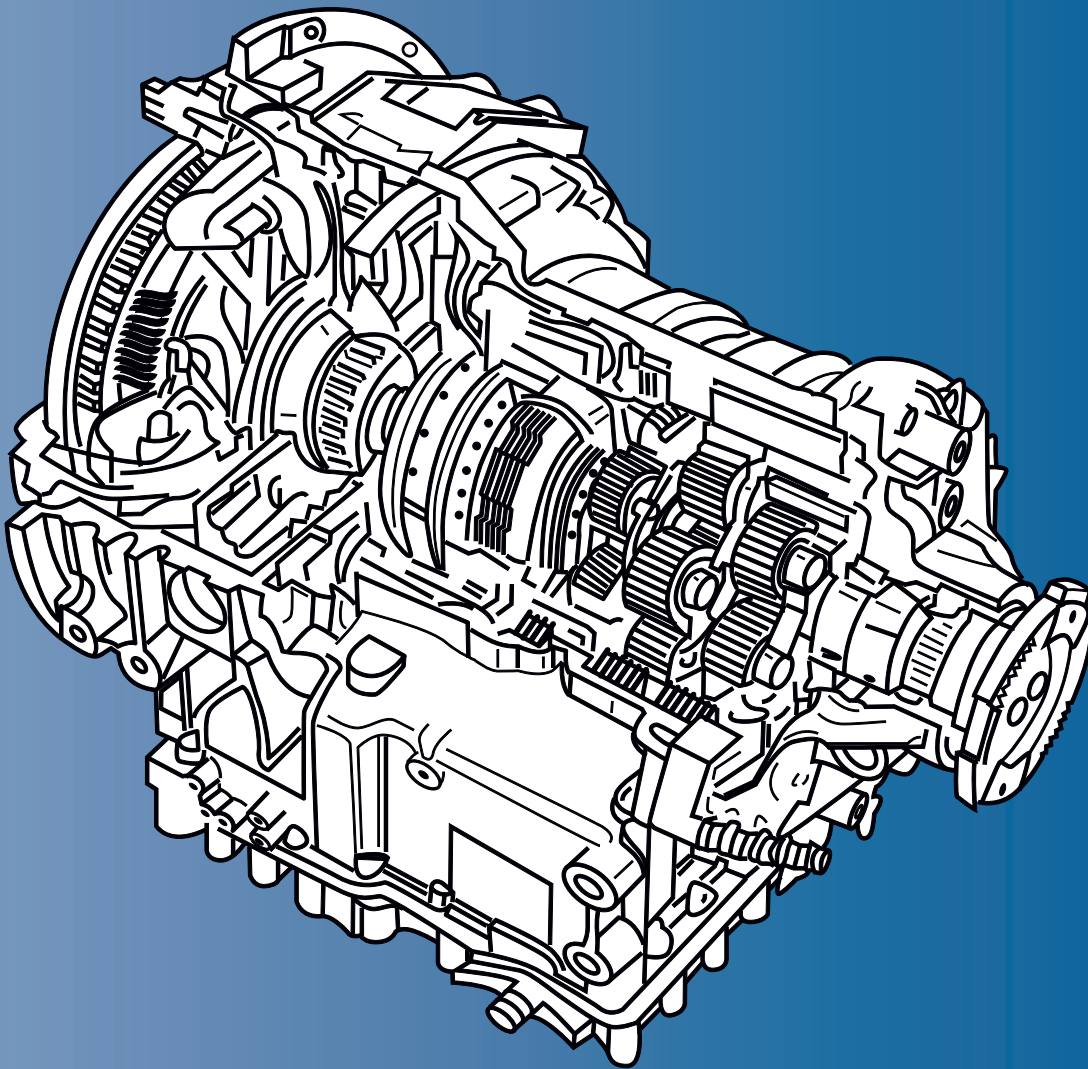


## KL-0206-105 Support, VW T4

**Suitable for: VW T4 model 1995 onwards (extended bodywork length).**

Designed to lift and pull the engine/gearbox assembly forwards. The support is used in conjunction with the engine lifter **KL-0206-1**.

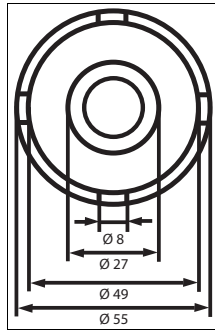




# Gearbox Repairs

8





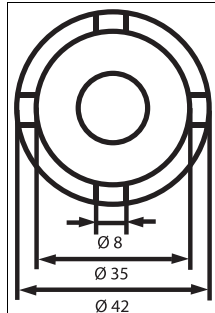
## KL-0301

Pin Wrench Socket,  
Rear Axle Drive Shaft Flange, Mercedes

Suitable for Mercedes W116, W123, W126 Rear Axle Drive Shaft Flange.

### Technical Data:

Drive:	3/4"
Length:	80mm
Weight:	420g



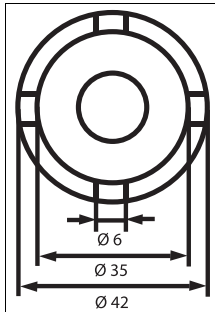
## KL-0302

Pin Wrench Socket,  
Gearbox Flange, Mercedes

Suitable for Mercedes gearbox flange.

### Technical Data:

Drive:	3/4"
Length:	70mm
Weight:	440g



## KL-0303

Pin Wrench Socket,  
Differential Flange, Mercedes

Suitable for Mercedes differential flange.

### Technical Data:

Drive:	3/4"
Length:	70mm
Weight:	370g



1/2"

### Technical Data:

Size (waf):	30mm
Profile:	bi-hex
Drive:	1/2"
Length:	75mm
Weight:	350g

## KL-0304

Special Bi-Hex Socket, waf 30mm

Suitable for BMW 1 Series (F20), 3 Series (E36, E46, E90); Citroën Saxo, C2; Dacia Sandero; Fiat Seicento; Ford Galaxy; Mercedes A-Class (W168), C-Class (W203), E-Class (W211), SL (W129), W123, W124, W126, W201; Opel/Vauxhall Astra F, Astra G; Renault Scenic, Clio, Kangoo; Toyota Avensis, Picnic and VW Golf (III, IV), Lupo, Touareg, T5 etc.

The special socket is particularly suitable for loosening and tightening fastening nuts; for example, those that are found on rear/front axle drive shafts, wheel bearings, as well as on gearboxes and differential flanges.



1/2"

### Technical Data:

Size (waf):	32mm
Profile:	bi-hex
Drive:	1/2"
Length:	75mm
Weight:	450g

## KL-0305

Special Bi-Hex Socket, waf 32mm

Suitable for Fiat Punto, Seicento; Ford Fiesta, Fusion, Focus, Mondeo; Mercedes C-Class (W204), S-Class (W140); Nissan Almera, Vauxhall/Opel Astra H, Vivaro; Subaru Outback etc.

The special socket is particularly suitable for loosening and tightening the fastening nuts that are found on rear/front axle drive shafts, wheel bearings, as well as on gearboxes and differential flanges.

## KL-0190-94

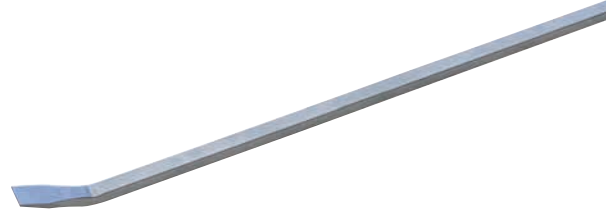
### Pry Bar

This pry bar made of special steel is ideal for:

- Dismantling stubborn components.
- Positioning and holding components in position.
- Spreading clamping bores, etc.

**Technical Data:**

Length:	900mm
Blade width:	24mm



## KL-0193-95

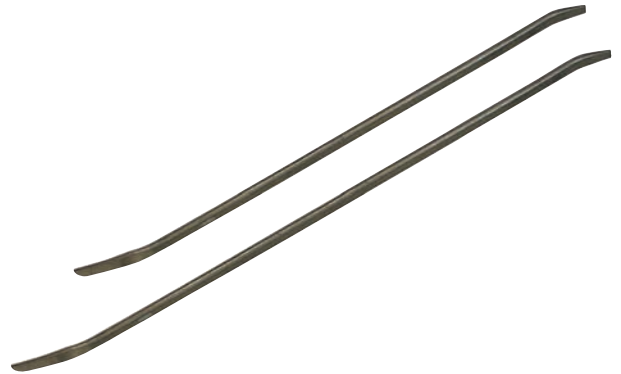
### Pry Bar Set

These pry bars made of special steel are ideal for:

- Dismantling stubborn components.
- Positioning components.
- Holding components in position.
- Checking suspension ball joints and silentblocs.

**Technical Data:**

Length	Blade width 1 / 2	Weight
730mm	24/33mm	1,600g
900mm	24/33mm	1,900g



## KL-0149-1..

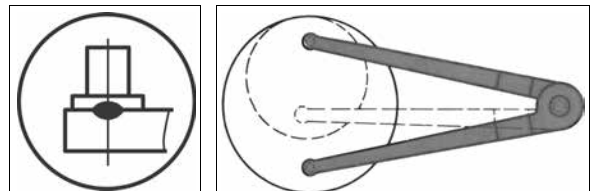
### Pin-Type Face Spanner

For use on two-hole nuts; spanner features riveted or welded pins (not replaceable).

Special steel, gunmetal finish.

Part-No.						
KL-0149-111	7-40mm	1.5mm	2.8mm	115mm	3mm	40g
KL-0149-112		2mm	3.6mm			
KL-0149-113		2.5mm	4mm			
KL-0149-121	11-60mm	3mm	4mm	160mm	4mm	140g
KL-0149-122		4mm	5mm			
KL-0149-123		5mm	6mm			
KL-0149-131	14-100mm	5mm	6mm	215mm	6mm	300g
KL-0149-132		6mm	7mm			
KL-0149-133		8mm	8mm			
KL-0149-141	22-125mm	8mm	8mm	260mm	6mm	500g
KL-0149-142		10mm	10mm			
KL-0149-143		12mm	12mm			

KL-0149-111 - KL-0149-143



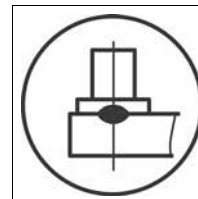
## KL-0149-3..

### Articulated Pin-Type Face Spanner

For use on two-hole nuts; spanner features welded pins.

Part-No.						
KL-0149-311	18-40mm	3mm	4mm	150mm	5mm	90g
KL-0149-312		4mm	5mm			
KL-0149-321		4mm	5mm			
KL-0149-322	40-80mm	5mm	6mm	220mm	6mm	245g
KL-0149-323		6mm	7mm			
KL-0149-331		6mm	7mm			
KL-0149-332	80-125mm	7mm	7.5mm	320mm	8mm	670g
KL-0149-333		8mm	8mm			
KL-0149-341		8mm	8mm			
KL-0149-342	125-200mm	10mm	10mm	450mm	10mm	1,750g

KL-0149-311 - KL-0149-342

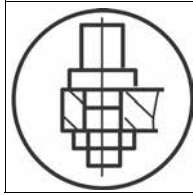


**Accessories (on demand):**

1993 U-20 CODE:1436686 - Reversible ratchet



KL-0149-411 - KL-0149-442



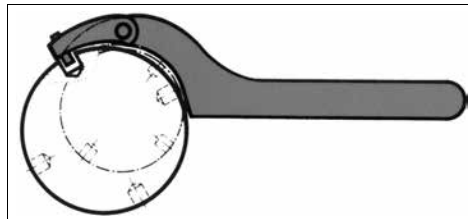
## KL-0149-4..

### Articulated Pin-Type Face Spanner

For use on two-hole nuts; spanner features replaceable pins.

Part-No.							Pin (Spare Part)
KL-0149-411	18-40mm	3mm	4mm	150mm	5mm	90g	KL-0149-4111
KL-0149-412		4mm	5mm				KL-0149-4121
KL-0149-421	40-80mm	4mm	5mm	220mm	6mm	245g	KL-0149-4211
KL-0149-422		5mm	6mm				KL-0149-4221
KL-0149-423		6mm	7mm				KL-0149-4231
KL-0149-431	80-125mm	6mm	7mm	320mm	8mm	670g	KL-0149-4311
KL-0149-432		7mm	7.5mm				KL-0149-4321
KL-0149-433		8mm	8mm				KL-0149-4331
KL-0149-441	125-200mm	8mm	8mm	450mm	10mm	1,750g	KL-0149-4411
KL-0149-442		10mm	10mm				KL-0149-4421

KL-0148-311 - KL-0148-382



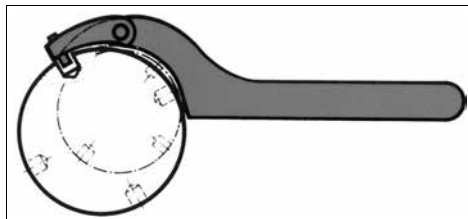
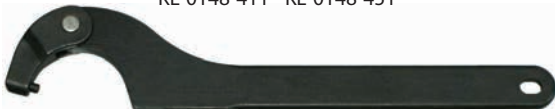
## KL-0148-3..

### Hook Spanner

For round nuts with set pin holes inside DIN 1816.

Part-No.						
KL-0148-311	12-14mm	2mm	2mm	110mm	3mm	25g
KL-0148-312	16-18mm	2.5mm	2.5mm			
KL-0148-321	20-22mm	2.5mm	2.5mm	110mm	3mm	40g
KL-0148-331	25-28mm	3mm	3mm	136mm	4mm	55g
KL-0148-332	30-32mm	4mm				
KL-0148-341	34-36mm	4mm	3.5mm	170mm	5mm	100g
KL-0148-342	40-42mm					
KL-0148-351	45-50mm	5mm	4mm	205mm	6mm	165g
KL-0148-352	52-55mm					
KL-0148-361	58-62mm	5mm	5mm	240mm	7mm	270g
KL-0148-362	68-75mm					
KL-0148-371	80-90mm	6mm	6mm	280mm	8mm	410g
KL-0148-372	95-100mm	8mm				
KL-0148-381	110-115mm	8mm	8mm	335mm	10mm	780g
KL-0148-382	120-130mm					

KL-0148-411 - KL-0148-451



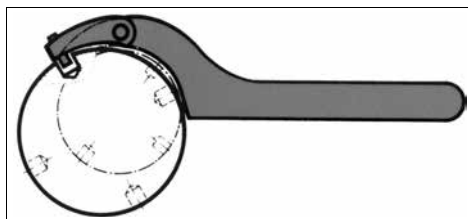
## KL-0148-4..

### Adjustable Hook Spanner

For round nuts with set pin holes inside DIN 1816.

Part-No.					
KL-0148-411	20-35mm	2.5mm	3mm	135mm	40g
KL-0148-412		3mm	3mm		
KL-0148-413		4mm	4mm		
KL-0148-421	35-60mm	4mm	4mm	175mm	85g
KL-0148-422		4mm	4mm		
KL-0148-423		5mm	5mm		
KL-0148-431	60-90mm	5mm	5mm	245mm	250g
KL-0148-432		6mm	6mm		
KL-0148-441		6mm	6mm		
KL-0148-442	90-155mm	8mm	8mm	300mm	425g
KL-0148-443		8mm	8mm		
KL-0148-451	155-230mm	8mm	8mm	420mm	1,015g

KL-0148-511 - KL-0148-515



## KL-0148-5..

### Adjustable Hook Spanner

For groove nuts DIN 1804; spanners with joint.

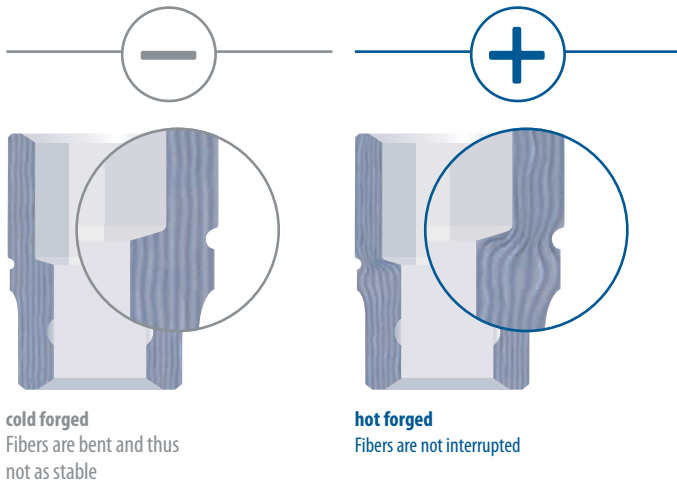
Part-No.					
KL-0148-511	20-35mm	135mm	9mm	4mm	50g
KL-0148-512	35-60mm	175mm	10.5mm	5mm	100g
KL-0148-513	60-90mm	250mm	12.5mm	7mm	280g
KL-0148-514	90-155mm	290mm	14mm	8mm	460g
KL-0148-515	155-230mm	420mm	17.5mm	10mm	1,200g

# POWERFUL RATCHETS AND STURDY SOCKETS

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- > Screw head protecting profiles (UD bi-hexagonal and hexagonal)



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- > Use of the best-possible raw materials, most up-to-date machinery and environmentally-friendly production processes
- > Our tool specialists vouch for exactness in processing and continuous refinements
- > Unique manufacturing processes and special tool treatment bring about the best in results
- > Stringent quality checks after each production step ensure a constantly high level





## KL-0152-90 K Twin-/Triple-Leg Puller Set, with Quick-Release Lever

For removing pulleys, gearwheels and ball bearings.

These universal twin-/triple-leg pullers with quick-release legs can be used as internal but also as external pullers - simply by reversing the jaws.

The jaws are provided with extremely slim ends which are essential for those gearbox repairs where pullers with conventional jaws cannot be used due to space constraints.

### Advantages:

- The legs always grip in parallel and can be attached to the yoke by means of the quick-release lever. • Universal application. • Saves 1 spindle and 2 legs.
- The best choice for the professional automotive technicians to assist them with their tough day-to-day work both in the automotive industry and in garages; suitable for use on passenger cars/lorries/HGVs.

### Technical Data:

Drive:	17mm
Width:	100mm
Height:	100mm
Max. load capacity:	2.5t
Weight:	2.1kg

### Scope of Delivery: KL-0152-90 K Twin-/Triple-Leg Puller Set

Part-No.	Description	Qty
KL-0150-0001	Twin-Leg Yoke	1
KL-0151-0001	Triple-Leg Yoke	1
KL-0152-0002 A	Spindle, M14x1.5x140mm, with Centring Tip	1
KL-0152-1103	Leg, short	3
KL-0152-0005	Quick-Release Lever with Clamping Bolt	3
KL-0152-1004	Jaw without Leg (a=3.6mm)	3
KL-4990-1004	Plastic Storage Case (275x230x83mm)	1



## KL-0152-91 K Twin-/Triple-Leg Puller Set, with Quick-Release Lever

For removing pulleys, gearwheels and ball bearings.

These universal twin-/triple-leg pullers with quick-release legs can be used as internal but also as external pullers - simply by reversing the jaws.

The jaws are provided with extremely slim ends which are essential for those gearbox repairs where pullers with conventional jaws cannot be used due to space constraints.

### Advantages:

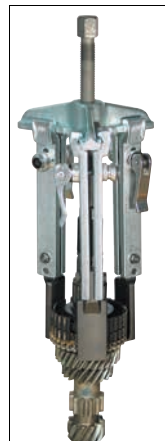
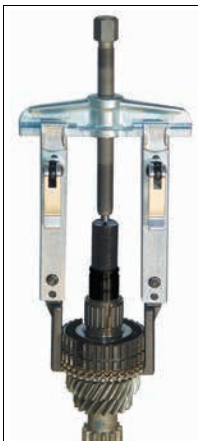
- The legs always grip in parallel and can be attached to the yoke by means of the quick-release lever. • Universal application. • Saves 1 spindle and either 2 or 4 legs.
- The best choice for the professional automotive technicians to assist them with their tough day-to-day work both in the automotive industry and in garages; suitable for use on passenger cars/lorries/HGVs.

### Technical Data:

Drive:	17mm
Width:	100mm
Height:	100/200mm
Max. load capacity:	2.5t (at a=3.6mm) 2.0t (at a = 2.0mm)
Weight:	3.6kg

### Scope of Delivery: KL-0152-91 K Twin-/Triple-Leg Puller Set

Part-No.	Description	Qty
KL-0150-0001	Twin-Leg Yoke	1
KL-0151-0001	Triple-Leg Yoke	1
KL-0152-0002 A	Spindle M14x1.5x140mm, with Centring Tip	1
KL-0152-1203	Leg, medium	3
KL-0152-1103	Leg, short	3
KL-0152-0005	Quick-Release Lever with Clamping Bolt	6
KL-0152-1004	Jaw without Leg (a=3.6mm)	3
KL-0152-0004	Jaw without Leg (a=2.0mm)	3
KL-4990-1007	Plastic Storage Case (340x275x83mm)	1



## KL-0150-..

### Twin-Leg Puller (Universal)

The **KL-0150-0** puller features extremely pointed leg ends and an ultra slim leg shaft (Important for transmission repairs).

The universal twin-leg puller can be used as an internal or external puller - simply by reversing the legs.

## KL-0150-0

### Twin-Leg Puller (Universal)

**Technical Data:**

Drive:	17mm
Max. pulling width:	100mm
Max. pulling height :	100mm
Max. load capacity:	2t
Weight:	1kg

## KL-0150-1

### Twin-Leg Puller (Universal)

**Technical Data:**

Drive:	17mm
Max. pulling width:	100mm
Max. pulling height:	100mm
Max. load capacity:	3t
Weight:	1kg

## KL-0150-1,5

### Twin-Leg Puller (Universal)

**Technical Data:**

Drive:	17mm
Max. pulling width:	135mm
Max. pulling height:	100mm
Max. load capacity:	3t
Weight:	1kg

## KL-0150-2

### Twin-Leg Puller (Universal)

**Technical Data:**

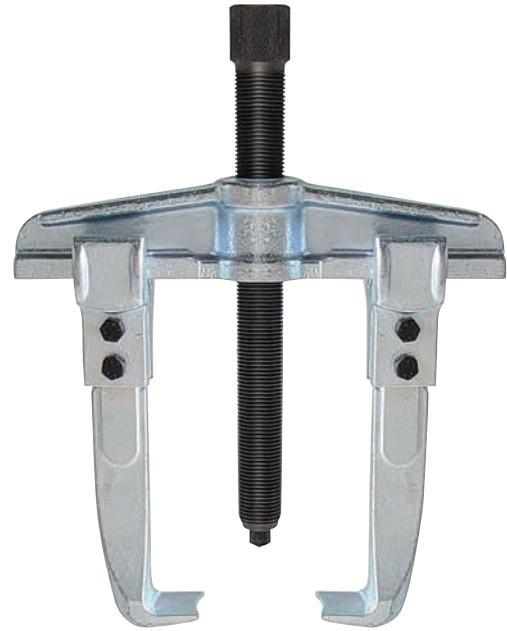
Drive:	22mm
Max. pulling width:	170mm
Max. pulling height:	150mm
Max. load capacity:	5t
Weight:	3kg

## KL-0150-2,5

### Twin-Leg Puller (Universal)

**Technical Data:**

Drive:	22mm
Max. pulling width:	220mm
Max. pulling height:	150mm
Max. load capacity:	5t
Weight:	3.2kg



**Accessories (on demand):**

**1993 U-20** CODE:1436686 - Reversible ratchet



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## KL-0150-3

### Twin-Leg Puller (Universal)

**Technical Data:**

Drive:	27mm
Max. pulling width:	260mm
Max. pulling height:	200mm
Max. load capacity:	7.5t
Weight:	7kg



### Technical Data:

Drive:	17mm
Width:	135mm
Height:	100/200/250mm
Max. load capacity:	2t
Weight:	3.2kg

## KL-0150-6

### Special Twin-Leg Puller Set

The **KL-0150-6** puller set features extremely pointed leg ends and an ultra slim leg shaft (Important for transmission repairs).

#### Scope of Delivery: KL-0150-6 Special Twin-Leg Puller Set

Part-No.	Description	Qty
KL-0150-1501	Yoke	1
KL-0150-0002	Spindle	1
KL-0150-0003	Pair of Clamps, short* (for 1 leg)	2
KL-0150-1203	Pair of Clamps, medium* (for 1 leg)	2
KL-0150-1253	Pair of Clamps, long* (for 1 leg)	2
KL-0150-0004	Leg without Clamps (pointed/slim)	6



### Technical Data:

Drive:	17mm
Width:	135mm
Height:	100/200/250mm
Max. load capacity:	2t
Weight:	4.8kg

## KL-0151-9

### Special Triple-Leg Puller Set

The **KL-0151-9** puller set features extremely pointed leg ends and an ultra slim leg shaft (Important for transmission repairs).

#### Scope of Delivery: KL-0151-9 Special Triple-Leg Puller Set

Part-No.	Description	Qty
KL-0151-1501	Yoke	1
KL-0150-0002	Spindle	1
KL-0150-0003	Pair of Clamps, short* (for 1 leg)	3
KL-0150-1203	Pair of Clamps, medium* (for 1 leg)	3
KL-0150-1253	Pair of Clamps, long* (for 1 leg)	3
KL-0150-0004	Leg without Clamp (pointed/slim)	9



## KL-0124-43

### Oil Pump with 12 Litre Reservoir

**Universal field of application. Ideal for use on the gearboxes found in VW-Audi, Ford, BMW, Honda, Nissan, Toyota, Mercedes, Volvo vehicles.**

The oil pump with 12 litre reservoir facilitates the quick and safe filling/topping up of gearbox, differential, engine, power steering etc.

The reservoir can be pressurised quickly and easily with the aid of compressed air. This allows the user to have both hands free to accurately dose the necessary vehicle-specific operating liquid. Alternatively, the filling/topping up can also be carried out by operating the hand pump on the reservoir.

The oil pump with reservoir allows for the quick, easy and professional filling/topping up even in confined space conditions or where access is difficult.

Thanks to the universal and the vehicle-specific adaptors that come with the kit, the oil pump with reservoir is suitable for a wide range of applications.

#### Scope of Delivery: KL-0124-43 Oil Pump with 12 Litre Reservoir

Part No.	Description	Qty
KL-0124-4311	Reservoir (12l) with Pump	1
KL-0124-4332	Lid	1
KL-0124-4312	Hook	1
KL-0124-4313	Filling Hose with Ball Valve	1
KL-0124-432 K	Adaptors in a Storage Case	1

#### Scope of Delivery: KL-0124-432 K Adaptor Assortment, in a Storage Case

Part No.	Description	Qty
KL-0124-4358-0	Adaptor for VW Gearbox	1
KL-0124-4358-1	Adaptor for Toyota Gearbox	1
KL-0124-4358-2	Adaptor BMW, Honda, Nissan	1
KL-0124-4358-3	Adapter (short) for VW Gearbox	1
KL-0124-4358-4	Adapter (long), for VW Gearbox	1
KL-0124-4358-5	Adaptor for VW Gearbox (M10x1.0)	1
KL-0124-4358-6	Adapter for VW-Audi DSG Gearbox (M24x1.5)	1
KL-0124-4358-7	Adaptor for Audi CVT Gearbox (M22x1.5)	1
KL-0124-4358-8	Adaptor for Mercedes 722.9 Gearbox (M12x1.5)	1
KL-0124-4358-9	Adaptor for Volvo Gearbox (5/16-24)	1
KL-0124-4390	Plastic Storage Case	1

### Accessories:

The **KL-0124-433** reservoir (12l) with lid, which is available separately as an accessory, is designed for the quick and safe filling and storage of different types of oil.

**Note:** Additional reservoir with lid available as accessory (to be ordered separately).

### Technical Data:

Reservoir capacity (with pump):	12 litre
Cracking pressure of the pressure relief valve:	1bar (14psi)
Maximum pressure:	2.5bar (35psi)

## KL-0124-433

### Reservoir (12 Litre) with Lid

**Additional reservoir for KL-0124-43 if different types of oil are to be used.**

The **KL-0124-433** reservoir (12 Litre) with lid is designed for the quick and safe filling and storage of different types of oil.



**Scope of Delivery:**

**KL-0124-433 Reservoir (12 Litre) with Lid**

Part No.	Description	Qty
KL-0124-4331	Reservoir (12 Litre) with Lid (empty)	1
KL-0124-4332	Lid	1

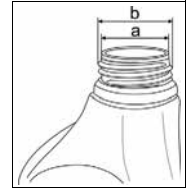
## KL-0288-11

### Oil Filler Adaptor for VW DSG Gearbox

**Suitable for VW-Audi DSG gearboxes.**

This tool is indispensable for the quick, easy and clean filling and re-filling of DSG gearboxes. The oil filler adaptor is screwed directly to the 1-Litre oil reservoir (VAG G 052 182 A2).

The built-in shut-off valve ensures accurate filling and professional working.



**Technical Data:**

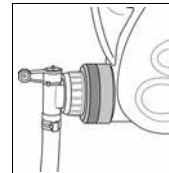
Hose length:	2m
Gear box connection thread:	M24x1.5
Dimensions of oil reservoir (a):	34mm
Dimensions of oil reservoir (b):	37.7mm

## KL-0288-112

### Adaptor for KL-0288-11

The **KL-0288-112** adaptor is used in conjunction with oil filler adaptor **KL-0288-11**. It is designed to connect DSG gearboxes to the 5 litre oil reservoirs from Febi (32390), Ravenol or Pentosin, thus enabling these gearboxes to be filled up directly.

KL-0288-112



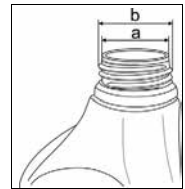
## KL-0288-12

### Oil Filler Adaptor for Audi DSG Gearbox

**Suitable for Audi DSG gear boxes from 2008 onwards.**

This tool is indispensable for the quick, easy and professional filling and re-filling of DSG gearboxes. The oil filler adaptor is screwed directly to the 1-Litre oil reservoir (VAG G 052 529 A2).

The built-in shut-off valve ensures accurate filling and professional working.



**Technical Data:**

Hose length:	2m
Gear box connection thread:	M24x1.5
Dimensions of oil reservoir (a):	36.5mm
Dimensions of oil reservoir (b):	39.5mm

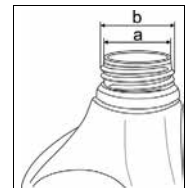
## KL-0288-13

### Oil Filler Adaptor for VW CVT Transmission

**Suitable for VW-Audi CVT transmissions (continuously variable transmission) (Multitronic).**

This tool is indispensable for the quick, easy and professional filling and re-filling of CVTs (continuously variable transmissions). The oil filler adaptor is screwed directly to the 1-Litre oil reservoir (VAG G 052 180 A2).

The built-in shut-off valve ensures accurate filling and professional working.



**Technical Data:**

Hose length:	2m
Gear box connection thread:	M22x1.5
Dimensions of oil reservoir (a):	36.5mm
Dimensions of oil reservoir (b):	39.5mm

## KL-0288-14

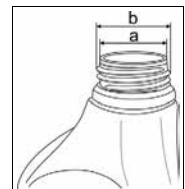
### Oil Filler Adaptor for VW Haldex Clutches

**Suitable for VW-Audi Haldex-clutches.**

This tool is indispensable for the quick, easy and professional filling and re-filling of Haldex clutches.

The oil filler adaptor is screwed directly to the 1-Litre oil reservoir (VAG G 055 175 A2).

The built-in shut-off valve ensures accurate filling and professional working.



**Technical Data:**

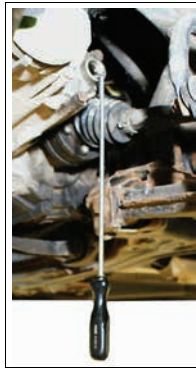
Hose length:	2m
Clutch connection thread:	M10x1
For dimensions of the oil reservoir (a):	34mm
For dimensions of the oil reservoir (a):	37.7mm





**Technical Data:**

Length:	360mm
Scales length:	15mm
Scales graduation:	1mm
Weight:	90g



## KL-0231-31

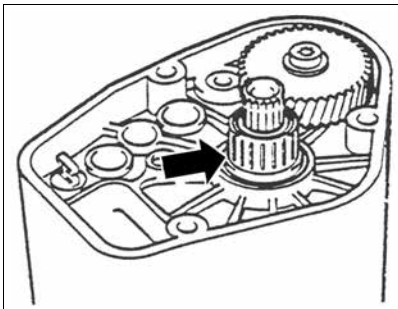
### Oil Dipstick, VW Gearbox

**Universal application.**

**Essential tool for VW-Audi gearboxes e.g.:**

- 012/01 Gearbox - WAudi 80 (RS2 Quattro), Cabrio, Audi A4 (1.6, 1.8 5V, 1.8 5V Turbo, 2.3 VR5, 1.9 TDI), VW Passat 3B (all petrol engines and 74kW diesel engines)
- 01E Gearbox - Audi 80 (RS2 [6-speed gearbox]), 100 (C4), A4 (from '95), S4, RS4, RS4 Quattro, VW Passat (3B [4 and 6 cylinder TDI from 96 kW 6-speed gearbox all-wheel-drive])
- 012 Gearbox - Audi 80, 100 (5-speed gearbox), A6
- 02G Gearbox - VW T4 Synchro
- Multitronic Gearbox - Audi A4 (2.0 TDI; 2.7 TDI), A6 (2.7 TDI)

This tool is indispensable for the easy, quick, and trouble-free checking of the gear oil level. Even on gearboxes where the bolts of the gearbox control system are hard to access, checking the oil level is not an issue using this tool.



## KL-0230-10

### Bearing Puller

**Bearing Puller for VW gearbox 085 (e.g. VW-Golf and VW-Polo).**

Indispensable for the quick and easy removal of the needle roller bearing inner ring from the gear shaft when the synchroniser body with gearwheel has been pulled off the 5th gear.

The special design of the puller **KL-0230-10** ensures that the collet chuck of the puller completely covers the bearing inner ring, thus enabling quick and smooth removal.

**Technical Data:**

Weight:	1.6kg
Clamping range:	40-43mm

**Technical Data:**

Drive:	3/8"
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## KL-0231-1

### Articulated Socket, Hexagonal, Size (waf) 17mm

Intended for use on gearbox oil control plugs on manual transmissions on VW and Audi passenger cars. Also ideal for use on VW Golf II and III as well as Audi vehicles with automatic transmission, where the oil control plug at the gearbox is hard to access.

**Technical Data:**

Drive:	1/2"
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## KL-0231-2

### Multi-Spline Socket, XZN, M16

**Suitable for Audi A3, A4, A6; VW Fox, Golf (IV), LT.**

This special socket features an inner bore and is therefore the ideal tool for oil drain plugs and oil control plugs on gearboxes.

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**Technical Data:**

Length:	400mm
Weight:	700g

## KL-0231-30

### Oil Filter Wrench

**Suitable for the all-wheel-drive vehicles VW Bora, Golf (IV and V), Sharan, Touran 4motion as well as Audi A3 and TT Quattro etc.**

Designed to remove and install the Haldex clutch oil filter.



## KL-0145-101

### Carrier Adaptor, VW-Audi

To use the various VW-Audi engine and transmission holders, the **KL-0145-101** Carrier Adaptor is required.

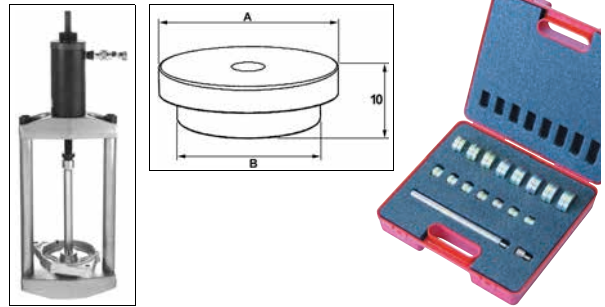
## KL-0159-11

### Set of Pressure Pieces, with Storage Case

For extracting and inserting bearings, shafts, bushes etc. Used in conjunction with a hydraulic press or any hydraulic press tool set of the **KL-0039- Series**. The set consists of one mandrel, one plug and 15 pressure pieces and is supplied in a plastic storage case.

**Technical Data:**

Mounting bore Ø:	10mm
Ø A:	22-50mm in 2mm gradation
Ø B:	20-48mm in 2mm gradation



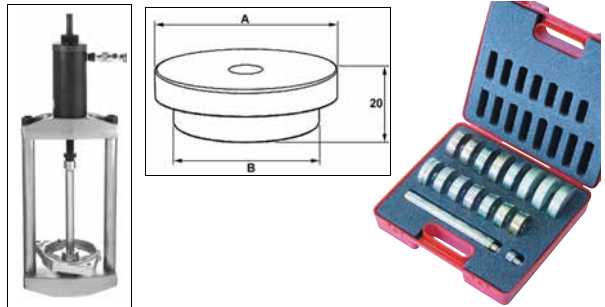
## KL-0159-12

### Set of Pressure Pieces, with Storage Case

For extracting and inserting bearings, shafts, bushes etc. Used in conjunction with a hydraulic press, pullers or tools of the **KL-0039-910 H** and **KL-0039-930 H** tool sets. The set consists of one mandrel, one plug and 15 pressure pieces and is supplied in a plastic storage case.

**Technical Data:**

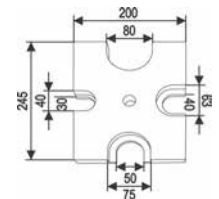
Mounting bore Ø:	20mm
Ø A:	52-80mm in 2mm gradation
Ø B:	50-78mm in 2mm gradation



## KL-0095-1

### Stripper Plate, Size 2

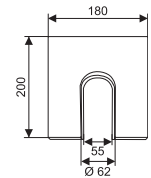
For pressing on and pressing off bearings found on rear axle shafts, transmissions and engines.



## KL-0096-1

### Stripper Plate, Ø 62mm

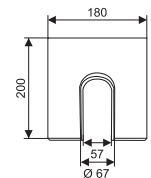
For pressing on and pressing off bearings or sprockets found on bearing shafts; for example, on transmissions, engines etc. Used in conjunction with a workshop press.



## KL-0096-2

### Stripper Plate, Ø 67mm

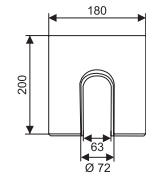
For pressing on and pressing off bearings or sprockets found on bearing shafts; for example, on transmissions, engines etc. Used in conjunction with a workshop press.



## KL-0096-3

### Stripper Plate, Ø 72mm

For pressing on and pressing off bearings or sprockets found on bearing shafts; for example, on transmissions, engines etc. Used in conjunction with a workshop press.

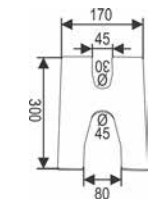


## KL-0097-1

### Stripper Plate (thin-walled, 4mm)

Made of highly hardened and tempered special steel Ø 1 = 30mm; Ø 2 = 45mm. Ideal tool for very narrow clearances (up to 4mm).

**Note:** The stripper plate **KL-0097-1** can also be used in conjunction with the puller **KL-0150-2,5**.



# GEDORE PULLERS

The right tool for every demand placed

## For maximum performance - even under a multi-ton load

- › High-grade industrial quality for the toughest forms of continuous use and safety in everyday work
- › Our innovative force over the past few years, which has given rise to numerous patents and utility models, is very much a reflection of our extensive track record in the development and production of puller tools.
- › Effortless moving of multi-ton loads
- › Ideal for the controlled use of force and a vital requirement for safe working: puller in association with a torque wrench

## Intelligent designs - well thought-out components

- › The refined GEDORE pullers impress as much through their quality as they do through their user-friendliness and superiority in detail:
- › A lasered scale on the 2-arm cross-beam enable the legs to be symmetrically aligned
- › Leg brake and quick-release clamp are those rapid and assured ways of locking and fastening the puller legs
- › Both the nitro-carburised mechanical and hydraulic spindles have properties that make work considerably easier and safer.

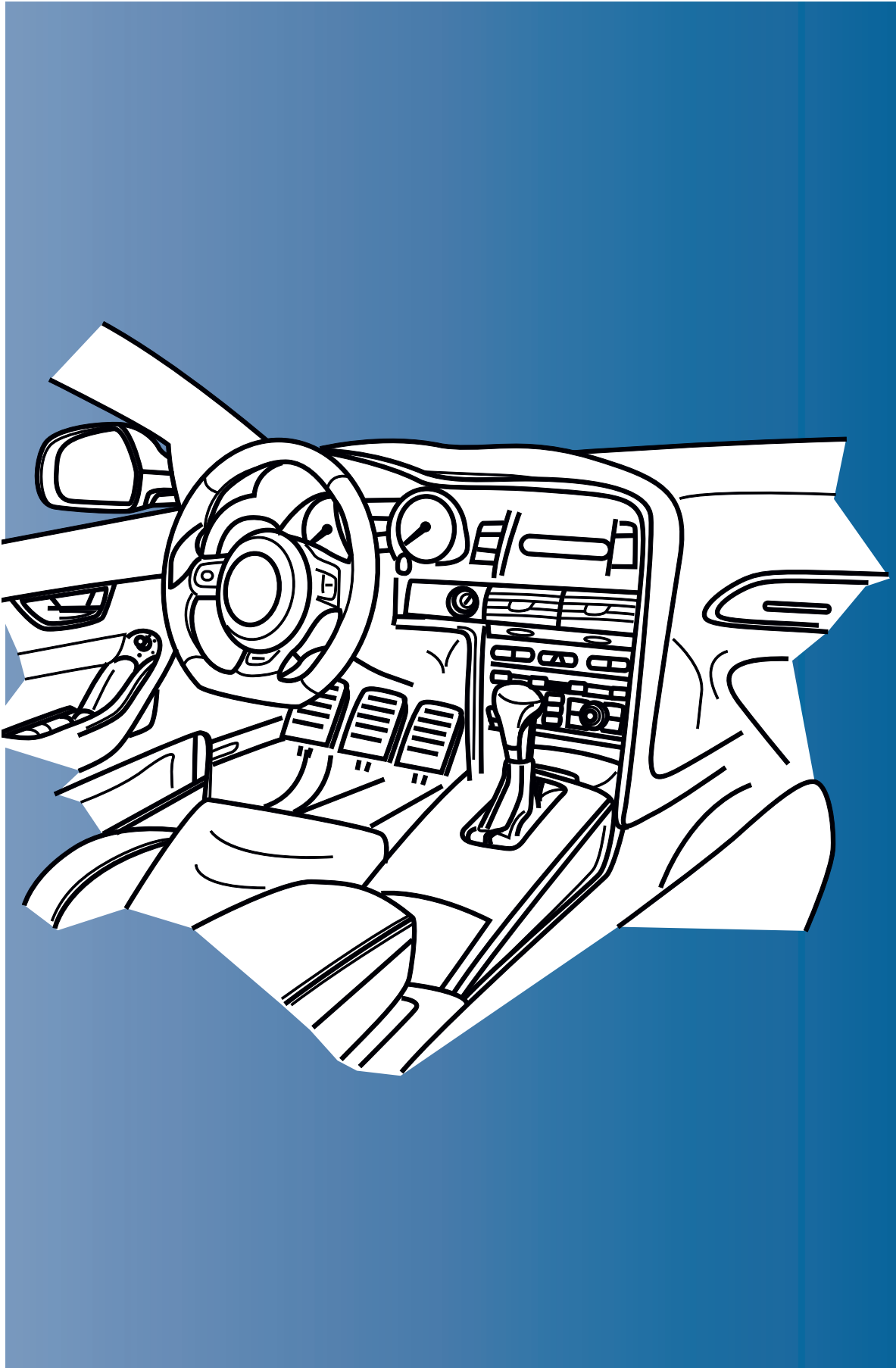
## Best-possible quality for your safety

- › Maximum value is attached to the safety of the puller when selecting the material and manufacturing process for each individual component part beforehand.
- › Any overloading of drop-forged components, such as 2-arm cross-beams, legs and clamping parts, is revealed through deformation - on account of the course of their fibres - rather than through fracturing and/or splintering.
- › Thermo-chemical treatment bestows a hardness on the components meeting the demands placed.
- › Strict quality checks ensure a constant high level

## Flexibility and specialization

- › Irrespective as to whether the same pulling operations are repeated or whether you are confronted each time with new pulling challenges, special or flexible all-purpose pullers - saving both on time and force - are there to meet your individual demands
- › The 1.06 and 1.07 series provide that unsurpassed flexibility. 2 and 3-arm cross-beams of various sizes, legs in the most varied of shapes and lengths, various fastening systems and the scope to replace the mechanical spindle by a hydraulic one all give rise to a modular system with which you can extensively retrofit and update your puller - thus making it applicable for all sorts of pulling situations.
- › Appropriate ranges for varied fields of work - including the workshop, industry and agricultural/constructional machinery repairs.
- › From the incidental parts to the heavy-duty puller, GEDORE provides tools for external, internal and ball bearing pullers and special-purpose tools. Should you still not find the right tool, then do contact us as to possible customised manufacturing.





# Car Body and Interior



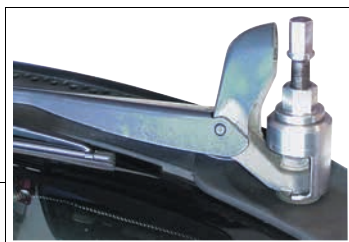
## KL-0198-90 KB Wiper Arm Puller Set

**Suitable, e.g., for VW-Audi, BMW, Citroën Ford, Mercedes, Opel/Vauxhall, Peugeot, Renault etc.**

An indispensable tool set for the removal of bolted wiper arms, especially useful when these have rusted or seized on the shaft.

Even tight-fitting/stuck wiper arms or those that are deeply built-in can be removed easily and without any trouble by using the **KL-0198-90 KB** puller set.

Wiper arms equipped with an integrated screen-wash nozzle, such as found at the rear window of VW-Audi, BMW etc., are removed by means of the slide hammer puller that comes with the set. Wiper arms with centre holes can be extracted using the pressure spindle. When removing wiper arms without centre holes, the pressure piece included in the set is placed onto the pressure screw.



### Scope of Delivery:

#### KL-0198-90 KB Wiper Arm Puller Set

Part No.	Description	Qty
KL-0198-9008	Pressure Spindle	1
KL-0198-9009	Slide Hammer Puller	1
KL-0198-901	Fork 1 (BMW, Citroën, Ford, Opel/Vauxhall, VW etc.)	1
KL-0198-902	Fork 2 (Citroën, Peugeot etc.)	1
KL-0198-903	Fork 3 (VW-Audi, Citroën Ford, Mercedes etc.)	1
KL-0198-904	Fork 4 (VW-Audi, BMW, Citroën, Mercedes, Opel/Vauxhall, Peugeot, Renault etc.)	1
KL-0198-905	Fork 5 (VW-Audi, BMW 1-Series, Citroën, Ford, Mercedes, Peugeot 307, Renault, VW Touareg, T5, etc.)	1
KL-0198-906	Fork 6 (VW-Audi, BMW, Ford etc.)	1
KL-0198-907	Fork 7 (BMW etc.)	1
KL-0198-909	Fork 9 (VW Golf V, T5 rear wiper, Škoda Superb, Peugeot 206, 307, 806, etc.)	1
KL-0198-9090	Plastic Storage Case (empty)	1

## KL-0198-923 KA Wiper Arm Puller Set, VW-Audi/Ford

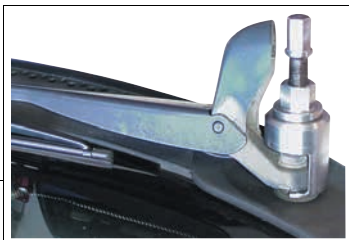
**Suitable e.g. for VW-Audi, Ford, etc.**

An indispensable tool set for the removal of bolted wiper arms, especially useful when these have rusted or seized on the shaft.

Even tight-fitting/stuck wiper arms or those that are deeply built-in can be removed easily and without any trouble by using the **KL-0198-923 KA** puller set.

Wiper arms equipped with an integrated screen-wash nozzle, such as found at rear windows, are removed by means of the slide hammer that comes with the set.

Wiper arms with centre holes can be extracted using the pressure spindle. When removing wiper arms without centre holes, the pressure piece included in the set is placed onto the pressure screw.



### Scope of Delivery:

#### KL-0198-923 KA Wiper Arm Puller Set, VW-Audi/Ford

Part No.	Description	Qty
KL-0198-901	Fork 1	1
KL-0198-903	Fork 3	1
KL-0198-904	Fork 4	1
KL-0198-905	Fork 5	1
KL-0198-906	Fork 6	1
KL-0198-909	Fork 9	1
KL-0198-9008	Spindle with Pressure Piece and Screw Cap	1
KL-0198-9009	Slide Hammer with Screw Cap	1
KL-0198-9090	Plastic Storage Case (empty)	1

## KL-0198-910

### Pulling Fork for Windscreen Wiper Arm

**Designed for windscreen wipers on Porsche Cayenne (92A) and VW Touareg (7P).**

For the professional removal of tight-fitting/stuck windscreen wipers; particularly useful tool when wiper arms have rusted or seized on the shaft.

The tool is used in conjunction with pressure spindle **KL-0198-9008**.



## KL-0198-913

### Pulling Fork for Windscreen Wiper Arm

**Suitable e.g. for windscreen wipers on Audi A4 (Models 2000-2007).**

This tool enables the quick and easy removal of bolted windscreen wiper arms, even when these have rusted or seized on the shaft. It is used in conjunction with the pressure spindle **KL-0198-9008**.

When removing wiper arms with integrated screen-wash nozzles, the pressure spindle is replaced with the **KL-0198-9009** slide hammer puller (included in tool set **KL-0198-90 KB**, and also individually available as accessory).



## KL-0198-928

### Wiper Arm Puller

**Suitable e.g. for wiper arms on rear windows of Renault Clio III, Espace IV, Laguna II, Modus, Megane II, Scenic II.**

This tool enables the quick and easy removal of bolted wiper arms, even when they have rusted or seized on the shaft.

When removing wiper arms with integrated screen-wash nozzles, the spindle **KL-0198-9003** is replaced with the **KL-0198-9009** slide hammer puller (included in tool set **KL-0198-90 KB**, and also individually available as accessory).

**Scope of Delivery:**

**KL-0198-928 Wiper Arm Puller**

Part No.	Description	Qty
KL-0198-912	Fork 12	1
KL-0198-9003	Spindle, M12x60mm	1
KL-0198-9004	Pressure Piece	1



## KL-0198-80

### Wiper Arm Puller

**Universal application.**

Thanks to the special shape of the puller, the two pairs of different hooks (with extra-thin straight tips and with rounded tips) and the adjusting nut, this tool is universally applicable.

**Technical Data:**

Drive:	14mm
Hook width (straight tips):	15mm
Hook width (straight tips):	2.3mm
Hook width (rounded tips):	26.5mm
Hook thickness (rounded tips):	2.6mm
Pulling-Ø max:	45mm
Weight:	560g



## Application Table KL-0198-.. Series:

Alfa Romeo	front		Drive	rear	
	left	right			Drive
147 model 2005 onwards	KL-0198-901 / -909	KL-0198-901 / -909	KL-0198-9008	KL-0198-80	
156 model 2004 onwards	KL-0198-905	KL-0198-905	KL-0198-9008	KL-0198-904	KL-0198-9009
159 2006 model	KL-0198-909	KL-0198-909	KL-0198-9008		

Audi	front		Drive	rear	
	left	right			Drive
A1 (8X) model 2010 onwards	KL-0198-909 / -904	KL-0198-909 / -904	KL-0198-9008	KL-0198-901	KL-0198-9009
A3 (8P) 2008 model	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-901	KL-0198-9009
A4 model 2001 onwards	KL-0198-906 / -913	KL-0198-906 / -913	KL-0198-9008	KL-0198-906	KL-0198-9009
A6 (4B) model 1997 - 2004	KL-0198-904	KL-0198-904	KL-0198-9008	KL-0198-904	KL-0198-9008
A6 (4F) model 2004 - 2011	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-901	KL-0198-9009
Q3 (8U) model 2011 onwards	KL-0198-905	KL-0198-905	KL-0198-9008	KL-0198-904	KL-0198-9009
Q5 (8R) model 2008 onwards	KL-0198-907	KL-0198-907	KL-0198-9008	KL-0198-901	KL-0198-9009

BMW	front		Drive	rear	
	left	right			Drive
1er (E87) model 2004 - 2011	KL-0198-905	KL-0198-905	KL-0198-9008		
2er (F45) model 2013 onwards	KL-0198-913	KL-0198-902	KL-0198-9008		
3er (E46) model 1998 onwards	KL-0198-905 / -907 / -910	KL-0198-905 / -907 / -910	KL-0198-9008		
3er (E90) model 2005 - 2013	KL-0198-80	KL-0198-80			
3er (F30) model 2011 onwards	KL-0198-906	KL-0198-906	KL-0198-9008		
5er (E60) model 2003 - 2010	KL-0198-80	KL-0198-901	KL-0198-9008		
X3 (E83) model 2003 - 2010	KL-0198-80	KL-0198-907	KL-0198-9008		
X3 (F25) model 2010 onwards	KL-0198-80	KL-0198-80		KL-0198-907	KL-0198-9009
X5 (E53) model 2000 - 2007	KL-0198-907	KL-0198-907	KL-0198-9008	KL-0198-907	KL-0198-9009
X5 (E70) model 2006 - 2013	KL-0198-907	KL-0198-907	KL-0198-9008	KL-0198-907	KL-0198-9009
Z3	KL-0198-904		KL-0198-9008		
Mini One model 2003 onwards	KL-0198-905 / -907	KL-0198-905 / -907	KL-0198-9008	KL-0198-909 / -911	KL-0198-9009
Mini One model 2007 onwards		KL-0198-909	KL-0198-9008	KL-0198-909	KL-0198-9009

Citroën	front		Drive	rear	
	left	right			Drive
Berlingo	KL-0198-904	KL-0198-904	KL-0198-9008	KL-0198-904	KL-0198-9009
C1	KL-0198-901	KL-0198-901	KL-0198-9008	KL-0198-901	KL-0198-9008
C2	KL-0198-901 / -80	KL-0198-901 / -80	KL-0198-9008	KL-0198-901 / -80	KL-0198-9008
C3 model 2009 onwards	KL-0198-907	KL-0198-907	KL-0198-9008	KL-0198-907	KL-0198-9009
C4 model 2006 onwards	KL-0198-80	KL-0198-80			
C5	KL-0198-903	KL-0198-903	KL-0198-9008	KL-0198-902	KL-0198-9008
Evasion		KL-0198-904	KL-0198-9008	KL-0198-901	KL-0198-9009

Fiat	front		Drive	rear	
	left	right			Drive
500 model 2007 onwards	KL-0198-904	KL-0198-904	KL-0198-9008	KL-0198-909 / -911	KL-0198-9009
500 L model 2012 onwards	KL-0198-905 / -904	KL-0198-905 / -904	KL-0198-9008	KL-0198-901	KL-0198-9009
Bravo model 2007 onwards	KL-0198-907	KL-0198-907	KL-0198-9008	KL-0198-911	KL-0198-9009
Doblo	KL-0198-911	KL-0198-911	KL-0198-9008	KL-0198-909	KL-0198-9009
Ducato 2008 model	KL-0198-905	KL-0198-905	KL-0198-9008		
Fiorino Qubo model 2008 onwards	KL-0198-905	KL-0198-905	KL-0198-9008	KL-0198-909 / -911	KL-0198-9009
Freemont model 2011 onwards	KL-0198-905	KL-0198-905	KL-0198-9008	KL-0198-80	
Grande Punto model 2006 onwards	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-909	KL-0198-9009
Idea model 2003 onwards	KL-0198-911	KL-0198-911	KL-0198-9008	KL-0198-905	KL-0198-9009
Multipia 100 ELX 1999 model	KL-0198-907	KL-0198-907	KL-0198-9008	KL-0198-911	KL-0198-9009
Panda model 09/2003 onwards	KL-0198-905	KL-0198-909	KL-0198-9008	KL-0198-909 / -911	KL-0198-9009
Panda model 2012 onwards	KL-0198-904 / -907	KL-0198-904 / -907	KL-0198-9008	KL-0198-901	KL-0198-9009
Punto model 2006 onwards	KL-0198-909 / -80	KL-0198-909 / -80	KL-0198-9008	KL-0198-909 / -80	KL-0198-9009
Scudo 270 model 2007 onwards	KL-0198-911 / -80	KL-0198-911 / -80	KL-0198-9008	KL-0198-911	KL-0198-9009
Sedici model 2006 - 2014	KL-0198-80	KL-0198-80		KL-0198-909	KL-0198-9009
Seicento 2002 model	KL-0198-901	KL-0198-901	KL-0198-9008	KL-0198-909	KL-0198-9009
Stilo 1,6 16V	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-909	KL-0198-9009
Ulysse model 2002 onwards	KL-0198-905 / -80	KL-0198-905 / -80	KL-0198-9008	KL-0198-909 / -911	KL-0198-9009

Ford	front		Drive	rear	
	left	right			Drive
B-Max model 2013 onwards	KL-0198-80	KL-0198-80		KL-0198-901	KL-0198-9009
C-Max model 2003 onwards	KL-0198-909	KL-0198-909	KL-0198-9008		
Fiesta model 2002 onwards	KL-0198-909	KL-0198-909	KL-0198-9008		
Fiesta model 2008 onwards	KL-0198-904 / -905	KL-0198-904 / -905	KL-0198-9008	KL-0198-901	KL-0198-9009
Focus model 11/2004 onwards	KL-0198-904	KL-0198-904	KL-0198-9008	KL-0198-901 / -904	KL-0198-9009
Focus model 1998-2005	KL-0198-909	KL-0198-909	KL-0198-9008		
FT 330	KL-0198-901	KL-0198-901	KL-0198-9008	KL-0198-901	KL-0198-9009
Fusion model 2002 onwards	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-80	
Galaxy model 2015 onwards	KL-0198-907	KL-0198-907	KL-0198-9008	KL-0198-904	KL-0198-9008
Ka model 2002 - 2009	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-909	KL-0198-9009
Ka model 2009 onwards	KL-0198-907	KL-0198-907	KL-0198-9008	KL-0198-901 / -911	KL-0198-9009
Kuga model 2008 onwards	KL-0198-907	KL-0198-907	KL-0198-9008		
Mondeo model 2001 onwards	KL-0198-904	KL-0198-904	KL-0198-9008		
Mondeo Tunier	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-911	KL-0198-9009
Mondeo model 2014 onwards	KL-0198-80	KL-0198-80		KL-0198-904	KL-0198-9009
S-Max model 2006 onwards	KL-0198-905	KL-0198-905	KL-0198-9008		
Transit FT330 (rear drive)	KL-0198-901	KL-0198-901	KL-0198-9008	KL-0198-901	KL-0198-9009

Honda	front		Drive	rear	
	left	right			Drive
Civic VII 2001 model	KL-0198-904	KL-0198-904	KL-0198-9008	KL-0198-901 / -80	KL-0198-9009

Mazda	front		Drive	rear	
	left	right			Drive
3 model 2003 - 2008	KL-0198-904 / -80	KL-0198-904 / -80	KL-0198-9008	KL-0198-909 / -911	KL-0198-9009
3 model 2009 onwards	KL-0198-80	KL-0198-80		KL-0198-901 / -909	KL-0198-9009
5 model 2005 onwards	KL-0198-80	KL-0198-80		KL-0198-80 / -901	KL-0198-9009
6 model 2007 onwards	KL-0198-80	KL-0198-80		KL-0198-907	KL-0198-9009
Premacy model 2005 onwards	KL-0198-913	KL-0198-913	KL-0198-9008	KL-0198-902	KL-0198-9009

Mercedes	front		Drive	rear	
	left	right			Drive
A-Class (W176) model 2012 onwards				KL-0198-901	KL-0198-9009
B-Class (W245) model 2005 - 2011	KL-0198-901	KL-0198-901	KL-0198-9008	KL-0198-901 / -909	KL-0198-9009
B-Class (W246) model 2011 onwards	KL-0198-903	KL-0198-903	KL-0198-9008	KL-0198-903	KL-0198-9009
Citan (W415) model 2012 onwards	KL-0198-904	KL-0198-904	KL-0198-9008	KL-0198-901	KL-0198-9008
C-Class (W203) Lim.	KL-0198-905 / -909	KL-0198-909	KL-0198-9008		
C-Class (W203) estate car	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-904	KL-0198-9008
C-Class (W204)	KL-0198-905 / -907	KL-0198-905 / -907	KL-0198-9008		
E-Class (W211)	KL-0198-904 / -909	KL-0198-905 / -906	KL-0198-9008		
GLK (X204) model 2008 - 2015	KL-0198-907	KL-0198-907	KL-0198-9008		
M-Klasse (W163) model 1997 - 2005	KL-0198-903 / -909	KL-0198-903 / -909	KL-0198-9008	KL-0198-901	KL-0198-9009
SLK	KL-0198-903	KL-0198-903	KL-0198-9008		
V-Class (W447)	KL-0198-906	KL-0198-905	KL-0198-9009		
Vito (W639)	KL-0198-903 / -905	KL-0198-903 / -905	KL-0198-9008		

Mitsubishi	front		Drive	rear	
	left	right			Drive
Colt VI model 2004 onwards				KL-0198-80	
Pajero model 1999 - 2005		KL-0198-80		KL-0198-904	KL-0198-9009
ASX model 2010 onwards				KL-0198-901	KL-0198-9009

### Application Table KL-0198-.. Series:

Nissan	front		Drive	rear	
	left	right			Drive
X-Trail T30, 2.2D	KL-0198-907	KL-0198-907	KL-0198-9008	KL-0198-905	KL-0198-9009
Qashqai model 2010 onwards	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-909	KL-0198-9009

Opel	front		Drive	rear	
	left	right			Drive
Agila model 2000 onwards				KL-0198-909 / -911	KL-0198-9008
Antara model 2007 onwards	KL-0198-907	KL-0198-907	KL-0198-9008	KL-0198-901	KL-0198-9008
Astra G	KL-0198-904	KL-0198-904	KL-0198-9008	KL-0198-901	KL-0198-9008
Astra J model 2009 onwards	KL-0198-905	KL-0198-905	KL-0198-9008	KL-0198-904	KL-0198-9009
Corsa C model 2000 - 2006	KL-0198-902	KL-0198-902	KL-0198-9008	KL-0198-909	KL-0198-9008
Corsa D model 2007 onwards	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-909	KL-0198-9008
Meriva A model 2003 - 2010	KL-0198-907	KL-0198-907	KL-0198-9008	KL-0198-901	KL-0198-9008
Meriva B model 2010 onwards	KL-0198-907 / -905	KL-0198-907 / -905	KL-0198-9008	KL-0198-901 / -904	KL-0198-9008
Mokka 2012 model	KL-0198-905	KL-0198-905	KL-0198-9008	KL-0198-905	KL-0198-9008
Vectra C	KL-0198-901	KL-0198-901	KL-0198-9008	KL-0198-901	KL-0198-9008
Vivaro model 2001 onwards	KL-0198-904	KL-0198-904	KL-0198-9008	KL-0198-904	KL-0198-9008
Zafira model 1999 - 2005	KL-0198-904 / -909	KL-0198-904 / -909	KL-0198-9008	KL-0198-901 / -909	KL-0198-9008
Zafira B model 2005 onwards	KL-0198-903 / -905	KL-0198-903 / -905	KL-0198-9008	KL-0198-903	KL-0198-9008

Peugeot	front		Drive	rear	
	left	right			Drive
206 model 1998 onwards	KL-0198-904 / -905	KL-0198-904 / -905	KL-0198-9008	KL-0198-904	KL-0198-9009
207 model 2006 onwards	KL-0198-905	KL-0198-905	KL-0198-9008	KL-0198-901	KL-0198-9009
208 model 2012 onwards	KL-0198-905	KL-0198-905	KL-0198-9008		
307 model 2005 onwards	KL-0198-905	KL-0198-905	KL-0198-9008	KL-0198-902	KL-0198-9008
307 CC model 2004 onwards	KL-0198-905	KL-0198-905	KL-0198-9008		
308 model 2008 onwards	KL-0198-905 / -904	KL-0198-905 / -904	KL-0198-9008	KL-0198-901	KL-0198-9009
3008 model 2009 onwards	KL-0198-905	KL-0198-905	KL-0198-9008	KL-0198-901 / -905	KL-0198-9009
407 SW model 2004 onwards	KL-0198-909	KL-0198-909	KL-0198-9008		
407 estate car	KL-0198-909	KL-0198-909	KL-0198-9008		
4007 SUV model 2009 onwards	KL-0198-911	KL-0198-911	KL-0198-9008	KL-0198-911	KL-0198-9009
508 SW model 2010 onwards	KL-0198-905	KL-0198-905	KL-0198-9008	KL-0198-905	KL-0198-9009
5008 model 2009 onwards	KL-0198-905 / -907	KL-0198-905 / -907	KL-0198-9008	KL-0198-905	KL-0198-9009
Bipper	KL-0198-904	KL-0198-904	KL-0198-9008	KL-0198-911	KL-0198-9009
Partner	KL-0198-904	KL-0198-904	KL-0198-9008	KL-0198-901	KL-0198-9009

Renault	front		Drive	rear	
	left	right			Drive
Clio III model 2007 onwards	KL-0198-907 / -904 / -80	KL-0198-907 / -904 / -80	KL-0198-9008		
Clio IV	KL-0198-905 / -907	KL-0198-905 / -907	KL-0198-9008	KL-0198-903	KL-0198-9008
Kangoo	KL-0198-904	KL-0198-904	KL-0198-9008	KL-0198-904	KL-0198-9008
Laguna	KL-0198-904	KL-0198-904	KL-0198-9008		
Laguna estate car	KL-0198-904	KL-0198-904	KL-0198-9008		
Laguna II	KL-0198-909	KL-0198-909	KL-0198-9008		
Mégane model 1999 onwards	KL-0198-905	KL-0198-905	KL-0198-9008		
Mégane Limousine	KL-0198-905	KL-0198-905	KL-0198-9008	KL-0198-904	KL-0198-9008
Mégane model 2003 onwards	KL-0198-904 / -909	KL-0198-904 / -909	KL-0198-9008		
Modus	KL-0198-901 / -909	KL-0198-901 / -909	KL-0198-9008		
Modus model 2004 onwards	KL-0198-901 / -909	KL-0198-901 / -909	KL-0198-9008		
Scenic I model 1999 - 2003	KL-0198-905 / -907	KL-0198-905 / -907	KL-0198-9008	KL-0198-909 / -911	KL-0198-9009
Scenic II model 2003 onwards	KL-0198-905	KL-0198-909	KL-0198-9008	KL-0198-912	KL-0198-9009
Twingo model 2001 onwards	KL-0198-901 / -909 / -80	KL-0198-901 / -909 / -80	KL-0198-9008	KL-0198-901 / -909 / -80	KL-0198-9008
Twingo model 2008 onwards	KL-0198-904	KL-0198-904	KL-0198-9008	KL-0198-903	KL-0198-9008
Trafic II model 2001 onwards	KL-0198-909	KL-0198-909	KL-0198-9008		

Seat	front		Drive	rear	
	left	right			Drive
Arosa model 1997 onwards	KL-0198-901	KL-0198-901	KL-0198-9008	KL-0198-904	KL-0198-9009
Ibeo model 2009 onwards	KL-0198-906	KL-0198-906	KL-0198-9008	KL-0198-901 / -909	KL-0198-9009
Ibiza 6J model 2008 onwards	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-909	KL-0198-9009
Leon model 2006 onwards	KL-0198-80	KL-0198-80		KL-0198-904	KL-0198-9009

Škoda	front		Drive	rear	
	left	right			Drive
Fabia II model 2007 onwards	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-904 / -909	KL-0198-9009
Fabia III model 2014 onwards	KL-0198-903	KL-0198-903	KL-0198-9008	KL-0198-903	KL-0198-9009
Rapid model 2012 onwards	KL-0198-907	KL-0198-907	KL-0198-9008	KL-0198-901	KL-0198-9009
Roomster	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-904	KL-0198-9009
Superb model 2008 onwards	KL-0198-909	KL-0198-909	KL-0198-9008		
Superb model 2015 onwards	KL-0198-909	KL-0198-909	KL-0198-9008		
Octavia 1Z	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-909	KL-0198-9009

Smart	front		Drive	rear	
	left	right			Drive
for four model 2004 - 2006	KL-0198-901	KL-0198-901	KL-0198-9008	KL-0198-901	KL-0198-9009

Toyota	front		Drive	rear	
	left	right			Drive
Aygo model 2009 onwards	KL-0198-901	KL-0198-901	KL-0198-901	KL-0198-901	KL-0198-9009

VW	front		Drive	rear	
	left	right			Drive
Beetle	KL-0198-909	KL-0198-909	KL-0198-9008		
Fox	KL-0198-901	KL-0198-901	KL-0198-9008	KL-0198-904	KL-0198-9009
Golf IV	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-909	KL-0198-9009
Golf V	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-909	KL-0198-9009
Golf VI	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-904	KL-0198-9009
Lupo	KL-0198-901 / -904	KL-0198-901 / -904	KL-0198-9008	KL-0198-901 / -904	KL-0198-9009
Lupo model 2002 onwards	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-909	KL-0198-9009
Passat up to 2000	KL-0198-903	KL-0198-903	KL-0198-9008	KL-0198-904	KL-0198-9009
Passat model 2001 onwards	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-904	KL-0198-9009
Passat CC model 2008 onwards	KL-0198-909	KL-0198-909	KL-0198-9008		
Polo model 1999 - 2001	KL-0198-904	KL-0198-904	KL-0198-9008	KL-0198-904	KL-0198-9009
Polo model 2001 onwards	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-909	KL-0198-9009
Polo (6R1) model 2009 onwards	KL-0198-904	KL-0198-904	KL-0198-9008	KL-0198-904	KL-0198-9009
Scirocco model 2008 onwards	KL-0198-907	KL-0198-907	KL-0198-9008	KL-0198-904	KL-0198-9009
Sharan model 2000 onwards	KL-0198-906	KL-0198-906	KL-0198-9008	KL-0198-904	KL-0198-9009
Sharan model 2010 onwards	KL-0198-905	KL-0198-905	KL-0198-9008	KL-0198-905	KL-0198-9009
TS	KL-0198-905	KL-0198-905	KL-0198-9008	KL-0198-909	KL-0198-9009
Tiguan model 2008 onwards	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-909	KL-0198-9009
Touran model 2003 onwards	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-909	KL-0198-9009
Touran model 2010 onwards	KL-0198-904 / -909	KL-0198-904 / -909	KL-0198-9008	KL-0198-905	KL-0198-9009
Touareg	KL-0198-906 / -909	KL-0198-906 / -909	KL-0198-9008	KL-0198-906 / -909	KL-0198-9009
Up! model 2011 onwards	KL-0198-909	KL-0198-909	KL-0198-9008	KL-0198-904	KL-0198-9009







**Technical Data:**

Drive:	1/2"
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\* = reg. trademark of Acument Intellectual Properties, LLC. USA

## KL-0570-20

### Special Torx® Socket T80 (with bore)

**Suitable for BMW E31, E38 and E39.**

Necessary for the removal and installation of windscreen wiper arms. It can also be used for adjusting the contact pressure, for example, when replacing the windscreen. This special Torx® socket is hollow-drilled on the inside to retain the wiper arm bearing shaft.

## KL-0049-300

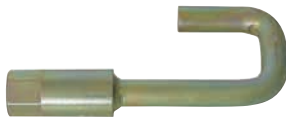
### Slide Hammer Puller, 4.8kg (Base Tool)



The ideal tool for extracting stuck or tight-fitting components such as half-shafts, universally jointed drive shafts, injector nozzles etc. It is used in conjunction with the respective adaptors and puller bolts.

**Scope of Delivery: KL-0049-300 Slide Hammer Puller, 4.8 kg (Base Tool)**

Part No.	Description	Qty
KL-0049-3001	Pull Rod for KL-0049-3	1
KL-0049-3002	Hammer Weight, 4.8kg, for KL-0049-3	1
KL-0049-3003	Handle for KL-0049-3	1
KL-0049-3004	Hex Nut, M18	1



## KL-0049-3020

### Hook

Used in conjunction with the slide hammer puller **KL-0049-31** for pulling chassis parts.



**Scope of Delivery: KL-0049-350 Clip with Hook and Joint**

Part No.	Description	Qty
KL-0049-3500	Clip	1
KL-0049-3501	Hook	1
KL-0049-3502	Joint M18	1

## KL-0049-350

### Clip with Hook and Joint

Designed to pull car body panels. Used in conjunction the slide hammer puller **KL-0049-31** or **KL-0049-300**.

The forged clip **KL-0049-3500** has an automatic self stress on the cone. Its field of application is a pulling force of up to 20t.

The forged hook **KL-0049-3501** made of hardened and tempered steel is suitable to any chain end of any make. When the chain is moved or remounted, it does not twist but it runs back parallel to itself. The clip **KL-0049-3500** is connected to slide hammer puller **KL-0049-31** or **KL-0049-300** by means of the hook **KL-0049-3501** and joint **KL-0049-3502**.

## KL-0270-31 C

### Bit Wrench, Angled, (Reinforced Design), with 8 Bit Inserts

**Suitable for Mercedes Toe Adjustment, e.g. on 190 Series (W201), C-Class (W202), C-Class (W203), 200-300 E (W124), E-Class (W210, W211), S-Class (W220).**

The **KL-0270-31 C** wrench is the ideal tool for setting the toe at the rear axle. Due to its special shape, this tool allows the user to easily and accurately turn the adjusting screw which is particularly hard to access.

**Technical Data:**

Length:	320mm
Bit Insert:	T30, T40, T45, T50, T55, XZN-8, XZN-10, XZN-12
Bit Insert (height):	20mm
Bit Drive:	5/16"
Weight:	500g

\* = reg. trademark of Acument Intellectual Properties, LLC. USA



## KL-0270-304 Bit Insert Set (8-Piece Set)

Composed of 5/16" Drive Bit Inserts in Sizes:  
(Torx®) T30, T40, T45, T50, T55,  
XZN-M8, XZN-M10, XZN-M12.

° = reg. trademark of Acument Intellectual Properties, LLC. USA



## KL-0120-80 Fuel Tank Sensor Spanner Set (adjustable)

### Universal application.

For loosening and tightening the plastic lock ring of the fuel sensor on fuel tanks.

### Scope of Delivery:

#### KL-0120-80 Fuel Tank Sensor Spanner Set (adjustable)

Part No.	Description	Range:	Drive:
KL-0120-801	Fuel Tank Sensor Spanner, Ø 80-120mm	80-120mm	24mm
KL-0120-802	Fuel Tank Sensor Spanner, Ø 110-170mm	110-170mm	24mm



## KL-0272-10 Slotted Nut Spanner Set (3 pcs.)

### Suitable for: VW Polo, Sharan; Ford Galaxy; Seat Alhambra.

For the quick and easy loosening and tightening of the slotted nut retaining the multi-pin electric socket on the door pillar.

Required when the door needs to be removed.

Size	Application examples
Size 1	VW Polo front doors; VW Sharan, Ford Galaxy, Seat Alhambra rear doors
Size 2	VW Sharan, Ford Galaxy, Seat Alhambra (until 2000) front doors
Size 3	VW Sharan, Ford Galaxy, Seat Alhambra (2001 onwards) front doors



## KL-0273-10 Removal Tool for Car Door Handle

### Suitable for VW Golf (VI), Fox, Tiguan, Passat (3C), Q7, etc.

For removing the cover cap on car door handles without key cylinder.

Required for removing the door handle. This removal tool for car door handle allows trouble-free loosening of the hard-to-reach locking hook.

### Technical Data:

Length:	240mm
Weight:	70g



## KL-0271-1 Headlight Adjustment Tool

### Suitable for VW Golf (III) and Vento.

### Technical Data:

Length:	300mm
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## KL-0270-2 Screwdriver, XZN M4

Suitable for the door handles found on VW Passat from 1996 onwards and Golf (IV).



## KL-4305-6225 Screwdriver, Torx® T25

For the removal/installation of headlights found on VW Sharan from 2000 onwards.

The long, slim design of this screwdriver allows the Torx® bolts on the headlights to be reached with ease.

### Technical Data:

Length:	300mm
Weight:	70g

\* = reg. trademark of Acument Intellectual Properties, LLC. USA



## KL-4306-6330 Torx® Screwdriver with T-Handle, T30x350mm

For the front mudguard fixing bolts on, e.g. Audi A4, A6; BMW 3 Series E36/E46, 7 Series E38.

This tool is required to allow the front mudguards to be removed and replaced without the need to remove the front doors. The long, slim design of the tool allows the hard-to-reach Torx® bolts in the A-pillar to be removed and replaced with the car door being open.

### Technical Data:

Length:	350mm
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\* = reg. trademark of Acument Intellectual Properties, LLC. USA

For removal/installation of headlights on Audi A4, A6.

The long, slim design of the T-handle allows the Torx® Bolts on the headlights to be reached with ease.

For removal/installation of door trim panels, e.g. on BMW 3 Series E36, 5 Series E60.



## KL-4306-8320 5-Point Screwdriver with T-Handle (T20x260mm)

Suitable for Mercedes.

The length and narrow shape of the KL-4306-8320 five-point screwdriver makes it ideal for removing and installing exterior rear view mirrors on Mercedes vehicles.

### Technical Data:

Weight:	100g
Size:	T20
Shaft Length:	220mm
Overall length:	260mm

### Note:

On Mercedes vehicles with the outside mirror shown here, the following retaining screws are used:

OEM = Torx® T20 (KL-4306-6320) or 5-point star T20

MB spare part = 5-point star T20

\* = reg. trademark of Acument Intellectual Properties, LLC. USA



## KL-4305-6220 Screwdriver, Torx® T20

For removing/installing the door handles on Mercedes A-Class and C-Class.

The long, slim design of this screwdriver allows the Torx® Bolts on the door handle to be reached with ease.

### Technical Data:

Length:	300mm
Weight:	60g

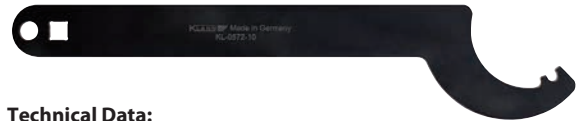
\* = reg. trademark of Acument Intellectual Properties, LLC. USA

## KL-0572-10

### Adjustment Tool for Door Window Glass, BMW

**Suitable for MINI and BMW window regulators; as found, for example, in MINI Cooper/Cooper S (R50, R53, R52), as well as BMW 1 Series (E81, E82).**

Designed for the quick and easy slackening of the adjustment nut on window regulators. Necessary, for example, after the installation of a new window regulator.



**Technical Data:**

Overall length:	302mm
Weight:	195g

## KL-0190-41

### Rivet Removal Pliers

With 90° swivelling head.

Designed to open the re-usable two-part plastic body-bound rivets; for example those used on plastic trims or door trims.

By extracting the central spreader pin from the rivet head with the pliers **KL-0190-41**, the plastic body-bound rivet can be withdrawn.



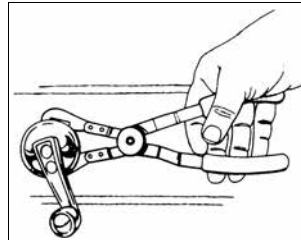
## KL-0190-7

### Door Handle Clip Pliers

**Universal application.**

For the removal of Omega retaining clips, for example, on sun visors, rear-view mirrors, window cranks etc.

Using this tool prevents damage to sun visors, door trims etc.

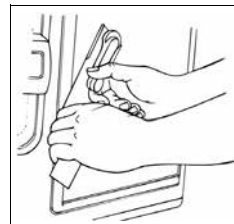


## KL-0190-82

### Window and Door Handle Clip Remover

**Universally suitable.**

Designed to remove the Omega retaining clips found on door handles, window winders, etc.



## KL-0190-10

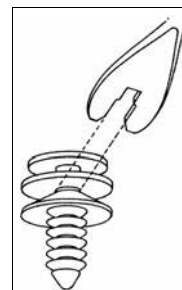
### Trim Pry

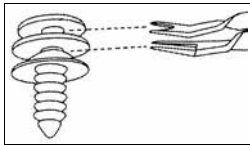
**Universal application.**

For the removal of trims such as door inner linings etc. that are fixed with plastic trim clips.

**Technical Data:**

Weight:	200g
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## KL-0190-4 Door Trim Pliers

(Universal)

### Universal application.

Particularly suitable for trim components such as door trims etc. which are fastened by means of plastic plugs.  
Pliers can also be used for trim strips, bumper rubber linings, etc.



## KL-0190-42 Rivet Removal Pliers

Designed to open the re-usable two-part plastic body-bound rivets; for example those used on plastic trims or door trims.  
By extracting the central spreader pin from the rivet head with the pliers **KL-0190-42** the plastic body-bound rivet can be removed.



## KL-0194-130 A Set of Plastic Wedges (4-Piece)

The four plastic wedges are particularly suitable for car body work such as the removal and installation of trim strips, door trims, door clips etc.

### Scope of Delivery / Technical Data: KL-0194-130 A Set of Plastic Wedges (4 pcs.)

Part No.	Description	Weight	Dimensions (LxWxH)
KL-0194-13 A	Plastic Wedge, with Felt	75g	255x20x25mm
KL-0194-14 A	Plastic Wedge, with Straight and Sloping Tip	35g	250x20x10mm
KL-0194-15 A	Plastic Wedge	75g	200x30x25mm
KL-0194-16 A	Plastic Wedge, Angled, with Cutout and Pin (for door clips)	55g	230x22x8mm



## KL-0194-131 A Set of Plastic Wedges (3-piece)

The three plastic wedges are particularly suitable for body work such as removing and installing trim strips, door trims, door clips etc.

### Scope of Delivery / Technical Data: KL-0194-131 A Set of plastic wedges (3 pcs.)

Part-No.	Description	Weight	Measures (L x W x H)
KL-0194-13 A	Plastic wedge with felt	75g	255 x 20 x 25mm
KL-0194-14 A	Plastic wedge with straight and sloping tip	35g	250 x 20 x 10mm
KL-0194-15 A	Plastic wedge	75g	200 x 30 x 25mm



## KL-0194-100 Set of Nylon Levers

These nylon levers are particularly suitable for removing trim strips, door trims, windscreen rubber seals, etc.  
The levers are made of nylon to prevent damage to glass, paintwork and door trims.

### Scope of Delivery / Technical Data: KL-0194-100 Set of Nylon Levers

Part No.	Description	Weight	Measures
KL-0194-10	Nylon Mounting Wedge	100g	200x26x26mm
KL-0194-11	Nylon Mounting Lever	15g	Length: 201mm
KL-0194-12	Nylon Mounting Lever	25g	Length: 202mm

## KL-0190-100

### Removal Tool Set for Door and Side Panel Trims

The correct removal of interior trim elements in vehicles is an important issue as in contrast to work inside the engine compartment, under the car or on the brakes, the car's owner will not overlook marks or damage inside the car caused by repair work. Damaged screw heads, scratched paint or marks caused by the use of unsuitable tools reflect badly on the quality of the workshop. The careful use of these tools ensures the vehicle interior remains unmarked during service and repair of the interior components.

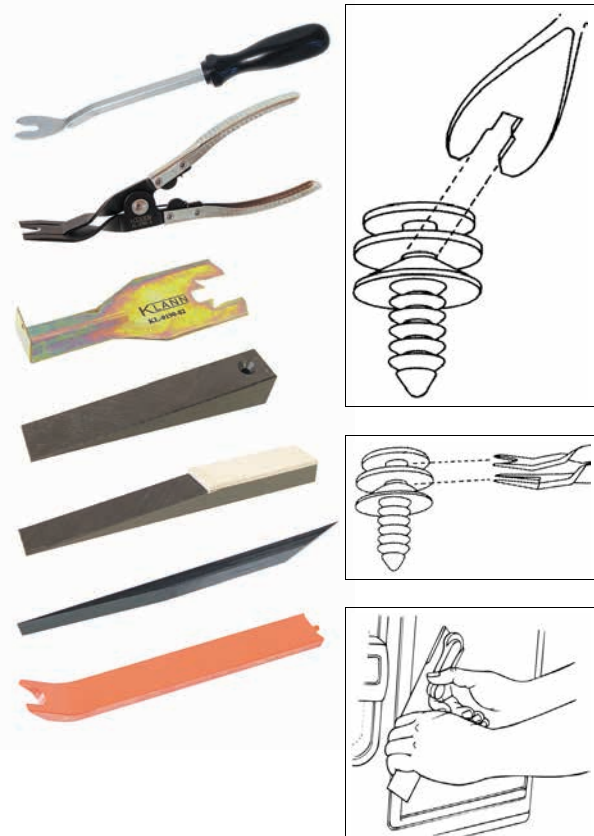
**Advantage:**

- Universal application.
- Professional working.
- No damage to trim elements.

**Scope of Delivery:**

**KL-0190-100 Removal Tool Set for Door and Side Panel Trims**

Part No.	Description	Qty
KL-0190-10	Release Lever - To remove door panel trims.	1
KL-0190-4	Door Trip Pliers - Universal: To release most types of clip. Also suitable for trim strips, rubber bumper facings, etc.	1
KL-0190-82	Door Spring Release Tool - To remove and install retaining clips e.g. on door handles, window crank handles, etc. Suitable for almost all vehicles.	1
KL-0194-130 A	Set of Plastic Wedges (4 pcs.) - The four plastic wedges are particularly suitable for work on the car body e.g. removing and installing door trims, door clips, trim strips, etc.	1



## KL-0190-50

### Hog Ring/Pliers Kit

For installing upholstery hog rings on vehicle seats (various makes).

**Technical Data:**

Dimension:	220x115x33mm
Weight:	500g

**Scope of Delivery:**

**KL-0190-50 Hog Ring/Pliers Kit**

Part No.	Description	Qty
KL-0190-5	Hog Ring Pliers	1
KL-0190-501	Hog Rings (100 Pcs)	1
KL-0190-5090	Plastic Storage Case (empty)	1



## KL-0470-10

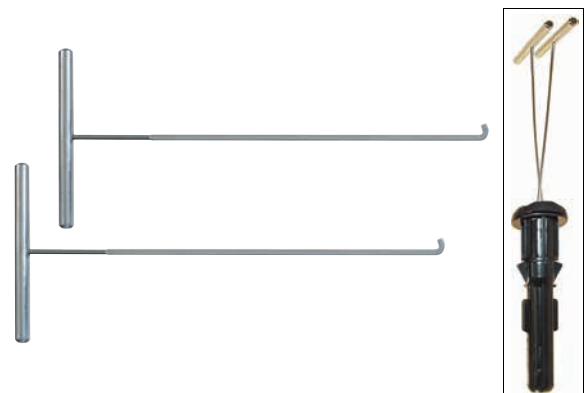
### Set of Pulling Hooks, Opel/Vauxhall

**Suitable for Opel/Vauxhall Astra, Corsa, Frontera, Omega, Tigra, Vectra, Zafira.**

In order to allow the head restraint guide bushing to be removed from the seat back without the need for dismantling the upholstery, it is necessary to release the inner locking tangs using the **KL-0470-10** hook set.

**Technical Data:**

Length:	166mm
Weight:	42g





**Technical Data:**

Weight:	170g
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## KL-0194-41 Windscreen Locking Strip Tool

Used to insert pipings into the conventional windscreen gaskets. (not intended for use on glued windscreens).  
The tool features two eyelets to fit various piping dimensions.



## KL-0194-27 Cutting Wire Tool Set

For cutting glued glass panes; set consists of 2 self-locking handles, 50m of square cutting wire, 1 awl with eyelet, 1 wooden case (275x145x38mm).

**Accessories:** KL-0194-273 Cutting Wire, 50m

**Technical Data:**

Weight:	800g
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## KL-0194-30 Car Dashboard Protection Set

**Universally applicable on vehicles with glued windscreens.**

The use of these dashboard protective elements ensures that the interior trim, vehicle roof lining and dashboard do not get dirty or damaged when cutting out glued vehicle panes such as the windscreen.

**Advantages:**

- Neat and professional working.
- Universal application.
- Prevents expensive damage.
- Substantial time and cost savings.

**Technical Data:**

Weight:	600g
Width (small protective element):	270mm
Width (large protective element):	450mm



## KL-0192-24 Snipe Nose Pliers (long design)

With extra long grip, straight tips for mounting position that are hard to access.

**Technical Data:**

Length:	280mm
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## KL-0192-25 Snipe Nose Pliers (long design) 45°

With extra long grip, tips angled 45°, for mounting position that are hard to access.

**Technical Data:**

Length:	280mm
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**Technical Data:**

Length:	180mm
Blade width:	32mm

## KL-0191-3 Gasket Scraper - Extra-Wide Design

Thanks to its short and extra-wide design, ideal for the cleaning of sealing faces. The tool can also be used for removing underbody sealant when carrying out repairs.

## KL-0191-30 Gasket Scraper Set

Suitable for cleaning sealing faces etc.; can also be used to remove underbody sealants during repairs.

The tool set consists of four scrapers; one short, narrow scraper with a flexible blade and one short, narrow scraper with an extra sturdy blade, as well as two long and wide scrapers, one with a flexible blade and one with an extra sturdy blade.

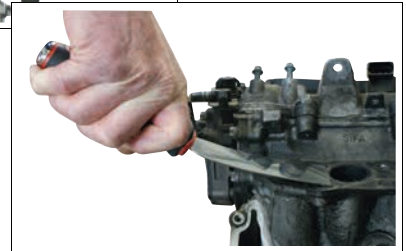
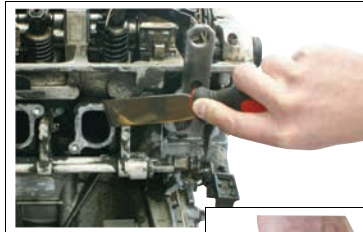
### Technical Data:

Length:	230mm
Blade width:	31.5mm
Blade strength:	1.2mm
Weight:	109g

Length:	230mm
Blade width:	31.5mm
Blade strength:	2.5mm
Weight:	145g

Length:	180mm
Blade width:	20mm
Blade strength:	1.2mm
Weight:	90g

Length:	180mm
Blade width:	20mm
Blade strength:	2.5mm
Weight:	107g



## KL-0196-30 Screwdriver Set for Battery Screw Plugs

**Universal application. Also suitable for the ventilating-/locking screw on the radiator; for example on BMW vehicles.**

This tool is designed for loosening and tightening the cross-recessed plastic screw plug on the starter battery or plastic radiators without the risk of damage.

### Scope of Delivery:

#### KL-0196-30 Screwdriver Set for Battery Screw Plugs

Part No.	Description	Qty
KL-0196-301	Screwdriver for Battery Screw Plug, 1.3mm	1
KL-0196-302	Screwdriver for Battery Screw Plug, 1.8mm	1



### Technical Data:

Length of screwdriver:	90mm
Length of T-handle:	80mm
Shaft Ø:	12mm
Width of cross recess (KL-0196-301):	1.3mm
Width of cross recess (KL-0196-302):	1.8mm
Weight:	180g

## KL-0157-.. Twin-Arm Battery Terminal Puller

The perfect tool for removing small parts such as battery terminals, pulleys, gears, ball bearings, etc. The hook tips grip automatically.

### Technical Data KL-0157-1:

Max. pulling width:	60mm
Max. pulling height:	60mm
Max. load capacity:	0.5t
Weight:	0.3kg

### Technical Data KL-0157-2:

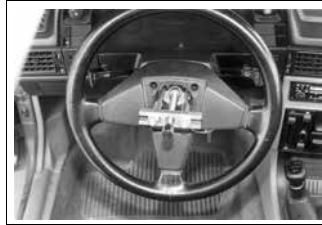
Max. pulling width:	60mm
Max. pulling height:	40mm
Max. load capacity:	0.5t
Weight:	0.3kg

KL-0157-1

KL-0157-2







**Technical Data:**

Pulling Range:	max. 90mm
Height:	135mm

## KL-0153-1 Steering Wheel Puller, Opel/Vauxhall

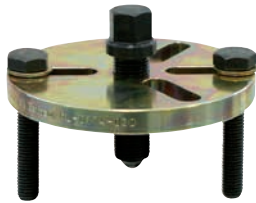
**Suitable for Opel/Vauxhall, Ford etc.**

Steering wheels which are stuck on the steering column can be pulled off professionally, quickly and without damage to the steering column and steering wheel by using the **KL-0153-1** puller.

Thanks to the different length of the puller arms and the longitudinal groove in the yoke, the tool is almost universally applicable.

**Advantages:**

- Universal application.
- No damage to the steering wheel during pulling action.



**Technical Data:**

Pulling Range:	40-88mm
Screws:	M10x60mm

## KL-0153-2 Steering Wheel Puller, Mercedes Lorries

**Suitable for Mercedes vans and lorries.**

The puller **KL-0153-2** allows quick and easy removal of stubborn steering wheels without risk of damage neither to the steering column splines nor the steering wheel.

**Advantages:**

- Due to the longitudinal grooves in the puller plate, this puller can be universally used as a two-arm puller as well as a three-arm puller.
- Flanged nut of the spindle prevents the operating tool from slipping.
- No damage to the steering wheel during extraction.



## KL-0372-4 Mounting Sleeve for Ignition Switch Retaining Ring, Mercedes

**Suitable for Mercedes W202 and W210 until 1997.**

The mounting sleeve **KL-0372-4** is a special tool designed for removing and refitting the ignition switch.

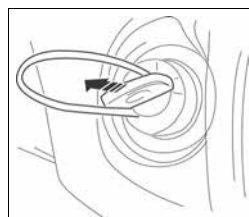
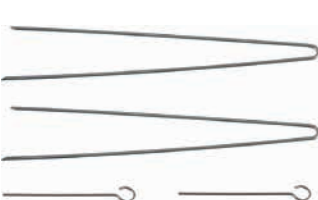
The tool consists of tubular-type outer casing with a vulcanized rubber insert.



## KL-0372-6 Mounting Sleeve for Ignition Switch, Mercedes

**Suitable for Mercedes vehicles with FBS 2 and FBS 3 Ignition Switch on W129, W140, W203, W208, W209, W210, W211, W220, W230 and W906 (Sprinter) as well as VW Crafter.**

Designed to loosen the ignition switch retaining ring.



## KL-0372-1 Needle Set for Ignition Switch Removal, Mercedes

**Suitable for Mercedes W116, W123 W124, W126 and W201.**

For removing the ignition switch. The needle set **KL-0372-1** contains needles of size 1 and size 2 with a diameter of 1.25 and 2.0mm respectively.

Designed for the removal of the ignition switch on the following models:

- Needle 1 on **Mercedes W116, W123 and W126.**
- Needle 2 on **Mercedes W124 and W201.**

**Advantages:**

Trouble-free and quick removal of the ignition switch on the vehicle types mentioned above.

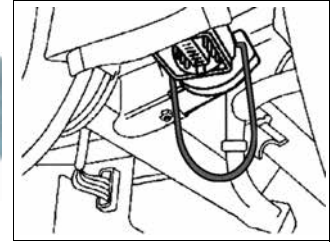
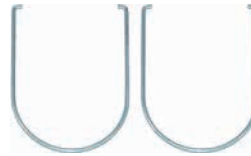
## KL-0372-70

### Spring Clip

for Protecting Sleeve/Steering Lock (2 units), Mercedes

**Suitable for Mercedes W129, W140, W210 and W202 with FBS2 ignition switch system.**

The spring clip **KL-0372-70** is required to push both locking bolts into the steering lock in order to enable the removal of the protecting sleeve with the ignition starter switch from the steering lock. The set consists of 2 spring clips made of NIROSTA®-Steel.

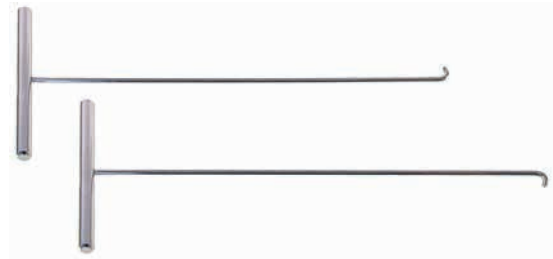


## KL-0372-3

### Set of Pulling Hooks (long), Mercedes

**Suitable for Mercedes W116, W123, W124, W126, W129, W140, W201, W202, W203, W208, W209, W210, W211, W220, W230 as well as VW Crafter.**

For removing the instrument cluster.



## KL-0191-10

### Special Screwdriver Bit Socket with Bore, Torx® T30

**Suitable for removal and installation of airbags on BMW, Mercedes etc.**

The screwdriver bit socket **KL-0191-10** is hollow bored on the inside to retain the special Torx® screws found on airbags.

Thanks to the special tool length of 85mm, the airbag mounting screws can easily be reached.

#### Technical Data:

Length:	85mm
Drive:	1/4"
Weight:	22g

\* = reg. trademark of Acument Intellectual Properties, LLC. USA



## KL-0191-11

### Special Screwdriver Bit Socket, Torx® T30

**Suitable for removal and installation of airbags on VW, Audi A4 (models '96-'05), Opel/Vauxhall, Renault etc.**

The screwdriver bit socket **KL-0191-11** is suitable to retain the conventional Torx® screws on airbags. Socket is not hollow-bored on the inside.

#### Technical Data:

Length:	85mm
Drive:	1/4"
Weight:	22g

\* = reg. trademark of Acument Intellectual Properties, LLC. USA



#### Accessories (on demand):

**2093 U-20** CODE:1703749 - Reversible ratchet 1/4" 127mm





## KL-0242-10

### Airbag Removal Tool Set (2 pcs.)

**Suitable for driver-side airbags on VW Golf (IV, V), Lupo, New Beetle, Passat (B5) '97 onwards, Polo '99 onwards, Sharan 06/00 onwards.**

For correct removal of the driver-side airbag it is necessary to release the retaining bracket from its anchor with the appropriate wrench.

**Scope of Delivery:**

**KL-0242-10 Airbag Removal Tool Set (2 pcs.)**

Part No.	Description	Qty
KL-0242-101	Airbag Removal Tool, Golf IV	1
KL-0242-102	Airbag Removal Tool, Passat B5	1



## KL-0240-1

### Puller for Spacer Sleeves, VW

**Suitable for vehicle models from 1988 onwards, such as VW Golf (II and III), Jetta, Vento, Polo, Passat, etc.**

When replacing steering column switches, it is necessary to firstly remove the steering wheel and then, extract the spacer sleeve from the cone of the steering column.

The special design of the puller **KL-0240-1** ensures that its collet chuck precisely encompasses the spacer sleeve, thus enabling quick and smooth extraction of the sleeve.

**Technical Data:**

Clamping range:	27-30mm
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## KL-0240-2

### Drive-In Mandrel for Spacer Sleeves

The drive-in mandrel **KL-0240-2** made of brass allows spacer sleeves to be pushed into the steering column without risk of damage.



## KL-4305-6208

### Torx® Screwdriver, T8x200mm

**Suitable, e.g. for Audi A4 (8E), A6 (4F) steering column cover.**

The long and narrow shape of the **KL-4305-6208** Torx® Screwdriver makes it ideally suited for removing and installing the steering column cover on Audi A4 and A6 etc.

**Technical Data:**

Weight:	70g
Size:	Torx® T8
Shaft length:	200mm
Overall length:	300mm

\* = reg. Trademark of Acument Intellectual Properties, LLC. USA



## KL-0190-28 K

### Terminal Tool Set for Push-On Contacts

**For releasing terminals from automotive plugs and connectors.**

The handy and ergonomic design of the blue anodized aluminium handles ensures safe working without the risk of slipping.

Due to their very short shape, the terminal tools enable the easy release of cable plug-and-socket connections, even if these are difficult to access.

During the release procedure, the barbed hooks are pushed on the terminal by means of the tool forks, so that the cable with the plug can be extracted with ease.

Thanks to its wide range of different inserts, the terminal tool set **KL-0190-28 K** enables the trouble-free release of terminal contacts in automotive electrical connectors without any risk of damage or injury.

**Advantages:**

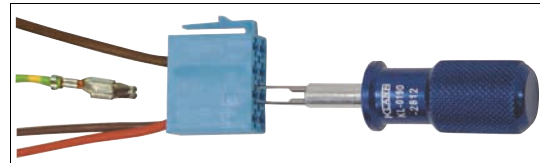
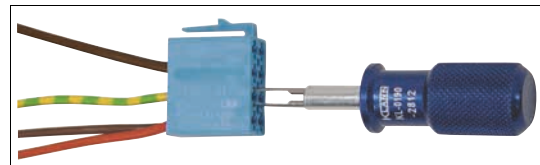
- The tool is easy to operate.
- Substantial time savings.
- Professional and safe working.



**Scope of Delivery:**

**KL-0190-28 K Terminal Tool Set for Push-On Contacts**

Part No.	Suitable for:
KL-0190-2801	Audi, BMW, Ford, Mercedes, Opel/Vauxhall, Renault, Seat, VW
KL-0190-2802	Audi, BMW, Ford, VW
KL-0190-2803	Audi, BMW, Ford, Mercedes, Opel/Vauxhall, Renault, Seat, VW
KL-0190-2804	BMW, Ford
KL-0190-2805	Audi, BMW, Mercedes, Opel/Vauxhall, Seat, Škoda, VW
KL-0190-2806	Audi, BMW, Mercedes, Opel/Vauxhall, Renault, Seat, Škoda, VW
KL-0190-2807	BMW, Mercedes
KL-0190-2808	Audi, Seat, Škoda, VW
KL-0190-2809	Audi, Opel/Vauxhall, Renault
KL-0190-2810	BMW, Mercedes
KL-0190-2811	BMW, Mercedes
KL-0190-2812	Audi, BMW, Mercedes, Opel/Vauxhall, Seat, VW
KL-0190-2813	BMW, Mercedes, Opel/Vauxhall
KL-0190-2814	BMW, Mercedes
KL-0190-2815	Audi, BMW, Opel/Vauxhall, VW
KL-0190-2816	BMW, Mercedes
KL-0190-2817	Audi, BMW, Mercedes, Škoda, Opel/Vauxhall, Seat, VW
KL-0190-2818	Audi, BMW, Mercedes, Opel/Vauxhall, Seat, Škoda, VW
KL-0190-2819	Audi, BMW, Ford, Mercedes, Opel/Vauxhall, Renault, Seat, VW



## KL-0189-90

### Condenser Wrench Socket

**Suitable for the PSA vehicles equipped with a Start-Stop-System such as Peugeot 208, 2008, 308, 3008, 508, 5008, 4008, Partner 3, Partner B9, Partner Tepee B9; Citroën C3 (A51), C3 Picasso, C4 (B7) B54, C4 Picasso (B78), C5 (X7), DS3, DS5, Berlingo III, Berlingo (B9) with 1.4, 1.6 or 1.8 HDI /eHDI engines.**

For loosening and tightening the cable glands found on energy storage systems. A very useful tool when removing the condenser (for example after an accident) or when replacing components on energy storage systems.



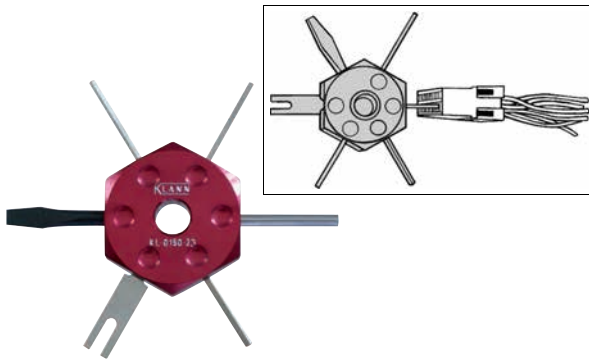
**Technical Data:**

Drive:	1/4"
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**Accessories (on demand):**

**2093 U-20** CODE:1703749  
**Reversible ratchet 1/4" 127mm**





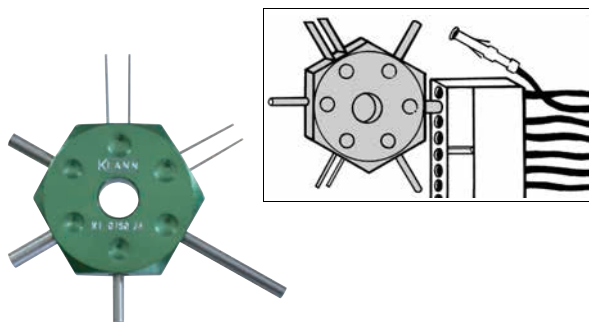
## KL-0190-23

### Terminal Tool for Push-On Contacts

Designed to release the terminals in plug and socket cable connections. Designed for Pack-Con and Weather-Pack terminals on GM C3 Systems.

**Technical Data:**

Weight:	60g
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## KL-0190-24

### Terminal Tool for Push-on Contacts

The terminal tool **KL-0190-24** is used to release the terminals in plug and socket cable connections.

During the release procedure the tool forks are pushed onto the terminal release mechanism, releasing them from the connector. The terminals can then be extracted from the plug or socket.

**Technical Data:**

Weight:	60g
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## KL-0190-20

(Universal)

### Pliers for Light Bulbs

**Universally suitable for VW-Audi, Opel/Vauxhall, Ford, Mercedes, BMW, etc.**

This tool is designed to extract wedge base bulbs, for example, bulbs used for instrument lighting in the dashboard.

The coated tips of the pliers prevent damage to the light bulb.

**Technical Data:**

Length:	165mm
Weight:	150g



## KL-0190-21

(Universal)

### Pliers for Light Bulbs

**Universally applicable.**

This tool is designed to extract very small wedge base bulbs, for example bulbs used for instrument lighting in dashboards, illuminated switches etc.

**Technical Data:**

Length:	135mm
Weight:	78g



## KL-0190-27

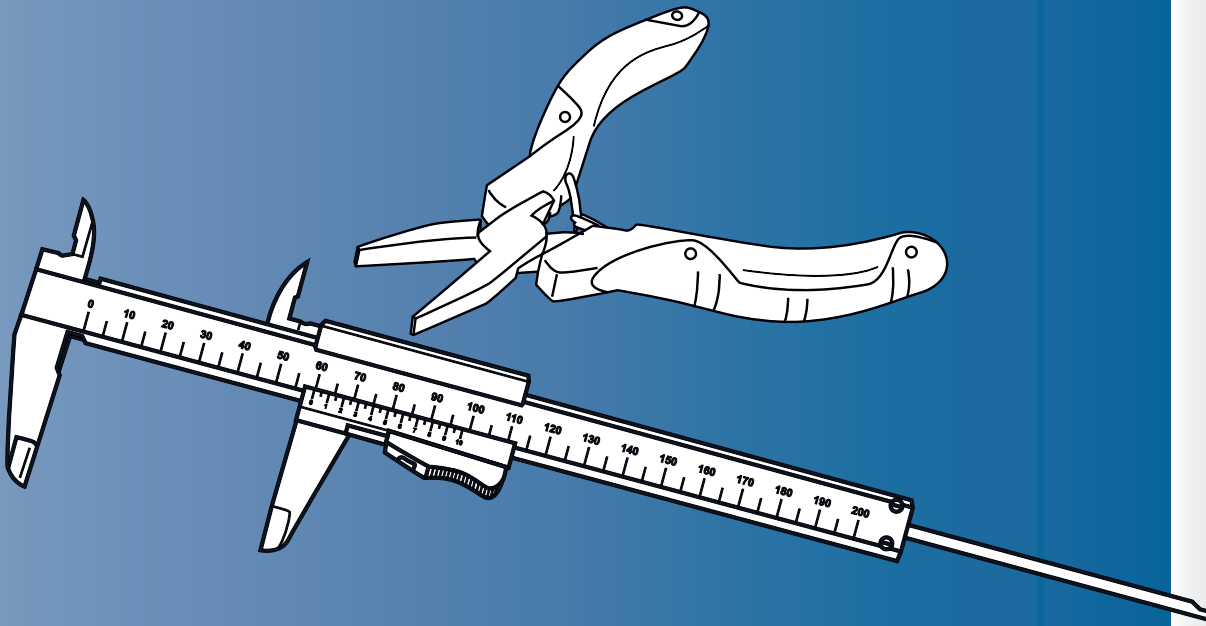
(Universal)

### Pliers for Light Bulbs

Very light all-plastic pliers suitable to extract small glass-based light bulbs installed in control panels or in luminous switches.

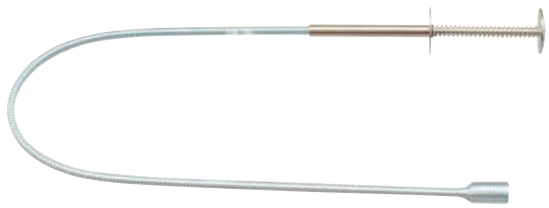
**Technical Data:**

Length:	156mm
Weight:	5g



# Miscellaneous

10



## KL-0126-2

### Flexible Magnetic Lifter (retractable)

Magnetic Lifter with flexible Shaft.

The lifting magnet is located within an anti-magnetic sleeve. This allows the tool to be positioned accurately before the magnet comes into operation. The magnet is triggered by pressing the handle which slides back the protective anti-magnetic sleeve.

#### Technical Data:

Magnet power:	400g
Magnetic head -Ø:	7mm
Length:	560mm
Weight:	80g



## KL-0126-202

### Flexible Magnetic Lifter (aluminium)

With flexible shaft, which will remain in any desired bended position.

#### Technical Data:

Magnet power:	600g
Magnetic head -Ø:	8mm
Length:	540mm
Weight:	30g



## KL-0126-203

### Flexible Magnetic Lifter

This flexible magnetic lifter enables metallic objects to be removed even from hard-to-reach areas.

#### Technical Data:

Magnet power:	600g
Magnetic head -Ø:	8mm
Length:	470mm
Weight:	70g



## KL-0126-204

### Flexible Magnetic Lifter (strong magnet power)

This flexible magnetic lifter enables metallic objects to be removed even from hard-to-reach areas. The flexible shaft will remain in any desired bended position.

#### Technical Data:

Magnet power:	2,000g
Magnetic head -Ø:	15mm
Length:	480mm
Weight:	140g



## KL-0126-206

### Telescopic Magnetic Lifter (strong magnet power)

This telescopic magnet lifter enables metallic objects or particles to be removed even from hard-to-reach areas.

#### Technical Data:

Length:	130-630mm
Magnetic head Ø:	11mm
Magnet power:	1,600g
Weight:	33g

## KL-0126-212

### Telescopic Magnetic Lifter (magnet power 3.6 kg)

This telescopic magnet lifter enables metallic objects or particles to be removed even from hard-to-reach areas.

**Technical Data:**

Length:	135-650mm
Magnetic head-Ø:	15mm
Magnet power:	3,600g
Weight:	61g



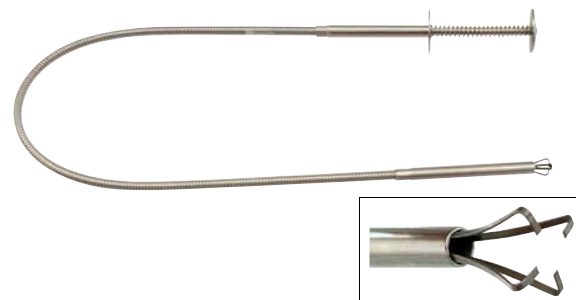
## KL-0126-250

### Claw Pickup Tool

Used for gripping and removing small parts like nuts, bolts, washers, etc. from areas that are hard to reach.

**Technical Data:**

Length:	600mm
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## KL-0126-209

### Telescopic Mirror

Allows hard-to-reach places to be easily seen. Any orientation possible (360° rotatable)

**Technical Data:**

Length:	320-720mm
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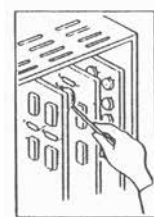
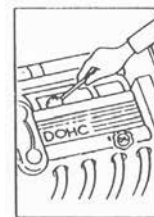
## KL-0126-261

### Telescopic Mirror, Ø 50mm, 300mm long

Allows hard-to-reach places to be easily seen. Any orientation possible (rotatable)

**Technical Data:**

Length:	170-300mm
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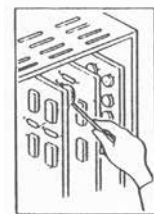
## KL-0126-260

### Telescopic Mirror, Ø 32mm, 485mm long

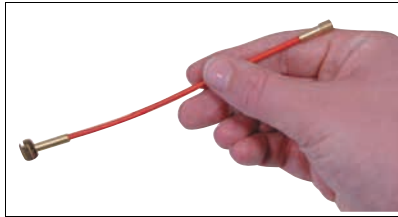
Allows hard-to-reach places to be easily seen. Any orientation possible (rotatable)

**Technical Data:**

Length:	135-485mm
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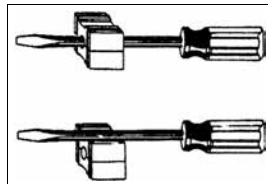
## KL-0126-221

### Magnetic Valve Collet Lifter (flexible)

With this flexible mini magnetic lifter, metallic objects can be removed even from the smallest crack. The **KL-0126-221** magnetic lifter is particularly suitable for lifting/removing valve collets.

**Technical Data:**

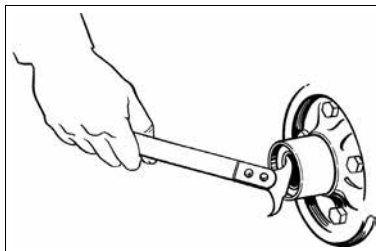
Length:	200mm
Weight:	6g
Magnet-Ø 3 mm power:	150g
Magnet-Ø 4 mm power:	270g



## KL-0126-211

### Magnetizing and Demagnetizing Block

Used to magnetize and demagnetize tools such as screwdrivers, blades and other small parts made of iron.



## KL-0178-10

### Seal Ring Puller

The **KL-0178-10** seal ring puller allows for the easy and trouble-free removal of oil or grease seals on engines, gearboxes and axles. Two size tips reach in and fit nearly all seal applications.

**Technical Data:**

Weight:	400g
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## KL-0190-94

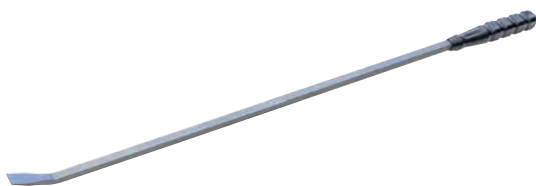
### Pry Bar

This pry bar made of special steel is ideal for:

- Dismantling stubborn components.
- Positioning and holding components in position.
- Spreading clamping bores, etc.

**Technical Data:**

Length:	900mm
Blade width:	24mm



## KL-0193-95

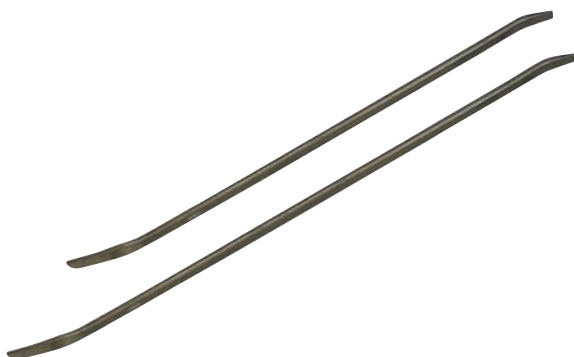
### Pry Bar Set

These pry bars made of special steel are ideal for:

- Dismantling stubborn components.
- Positioning components.
- Holding components in position.
- Checking suspension ball joints and silentblobs.

**Technical Data:**

Length	Blade width 1 / 2	Weight
730mm	24/33mm	1,600g
900mm	24/33mm	1,900g



## KL-4901-10 Combi Shears

High-performance blades of stainless steel for perfect cuts along the whole length of the blade. One serrated blade for cable-cutting. Convenient impact-resistant plastic handles with sprung self-opening action.

**Technical Data:**

Blade Length:	40mm
Overall Length:	180mm



## KL-0181-1 Stud Tool, 3/8"

(Universal)

**Universal tool, infinitely adjustable.**

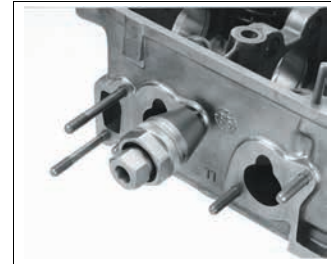
Designed to screw in and unscrew studs with diameter of 6-12mm.

**Advantages:**

- Infinitely adjustable.
- Suitable for use in very limited space conditions.
- Also suitable for screws with rusted or stripped threads.
- Also suitable for screws with undersize.

**Technical Data:**

Drive:	3/8"
Clamping range:	6-12mm
Weight:	450g



## KL-0140-40 Frame Micrometer, 0-25mm

Features a clamp ring and ratchet stop. The adjustable concealed spindle is hardened and ground. Comes with heat-insulating pads. Measuring range of from 0-25mm; surfaces chrome-plated.

**Technical Data:**

Measuring range:	0-25mm
Graduation:	0.5mm
Weight:	350g



## KL-0140-41 Frame Micrometer, 25-50mm

Features a clamp ring and ratchet stop. The adjustable concealed spindle is hardened and ground. Comes with heat-insulating pads. Measuring range of from 25-50mm; surfaces chrome-plated.

**Technical Data:**

Measuring range:	25-50mm
Graduation:	0.5mm
Weight:	500g



## KL-0128-1 Dial Gauge, Ø 58mm

Spindle and clamping shank made of stainless steel, design and measurement accuracy according to DIN 878-A.

**Technical Data:**

Graduation:	0.01mm
Measuring Range:	10mm
Housing -Ø:	58mm
1 pointer revolution:	1mm
Clamping shank Ø:	8mm





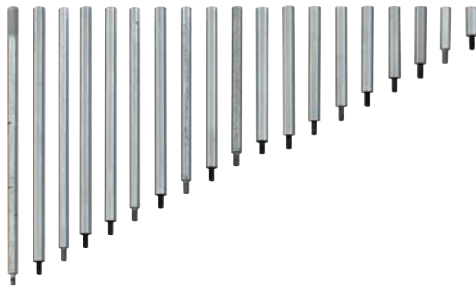
## KL-0128-0

### Dial Gauge, Ø 40mm

Description: Spindle and clamping shank made of stainless steel, design and measurement accuracy according to DIN 878-E.  
 The dial gauge is additionally equipped with a 10mm extension (**KL-0128-03**).

#### Technical Data:

Graduation:	0.01mm
Measuring Range:	5mm
Housing-Ø:	40mm
1 pointer revolution:	0.5mm
Clamping shank Ø:	8 h 6



## KL-0128-25

### Extension Set

For dial gauge **KL-0128-0** & **KL-0128-1**. The set consist of extensions **KL-0128-03** to **KL-0128-21**. Each extension with Ø 4mm.

Part No.	Description
KL-0128-03	10mm
KL-0128-04	15mm
KL-0128-05	20mm
KL-0128-06	25mm
KL-0128-07	30mm
KL-0128-08	35mm
KL-0128-09	40mm
KL-0128-10	45mm
KL-0128-11	50mm
KL-0128-12	55mm

Part No.	Description
KL-0128-13	60mm
KL-0128-14	65mm
KL-0128-15	70mm
KL-0128-16	75mm
KL-0128-17	80mm
KL-0128-18	85mm
KL-0128-19	90mm
KL-0128-20	95mm
KL-0128-21	100mm



## KL-0128-02

### Measuring Tip (flat)

For dial gauge **KL-0128-0** und **KL-0128-1** and extensions **KL-0128-03** to **KL-0128-21**.



## KL-0140-50

### Dial Bore Gauge Kit, Ø 50-178mm

A very useful tool kit for measuring diameters of cylindrical bores, especially suitable for use on petrol and Diesel engines. Comes with dial gauge and wooden case.

#### Technical Data:

Measuring range:	Ø 50-178mm
Measuring depth:	180mm

## KL-0128-31

### Dial Gauge Stand with Dial Gauge

Designed to measure the wobble of brake discs. Can also be used for fine-tuning when repairing engines and transmissions. Features: Sturdy measuring rods made of bright steel, fine adjustment of the dial gauge clamp, prismatic base with switchable magnet.

**Scope of Delivery:**

**KL-0128-31 Dial Gauge Stand with Dial Gauge**

Part No.	Description	Qty
KL-0128-1	Dial Gauge, Ø 58mm	1
KL-0128-3	Dial Gauge Stand without Dial Gauge	1



## KL-0140-32

### Vernier Calliper for Brake Drums

Measuring surfaces made of hardened stainless steel, scale and slide manufactured from aluminum profile. Open slide, fixing screw, vernier with parallax-free reading.

**Technical Data:**

Measuring range:	500mm
Jaw:	250mm
Vernier:	1/20mm
Weight:	1,200g



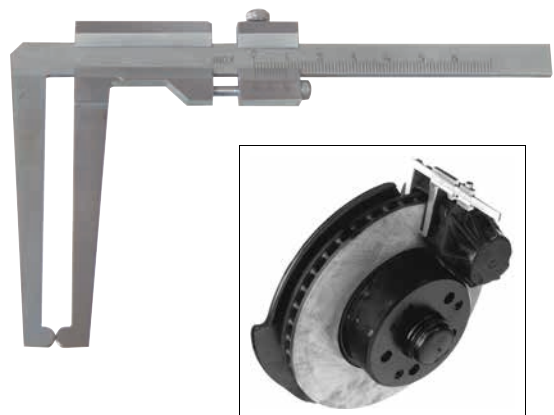
## KL-0140-33

### Vernier Calliper for Brake Disc

For measuring the thickness of brake discs in situ on the vehicle. The tool is hardened and features a locking screw. Rustproof, matt chrome-plated design.

**Technical Data:**

Measuring range:	50mm
Jaw:	75mm
Vernier:	1/10mm
Weight:	110g



## KL-0140-38

### Vernier Calliper for HGV Brake Discs

For measuring the thickness of brake discs in situ on the vehicle. The tool is hardened and features a locking screw. Rustproof, matt chrome-plated design.

**Technical Data:**

Measuring range:	100mm
Jaw:	120mm
Vernier:	1/10mm
Weight:	240g





## KL-0140-76

### Feeler Gauge (20 Blades)

Range: 0.05-1.00mm in 0.05mm increments.

#### Technical Data:

Blade-Length:	100mm
Weight:	100g



## KL-0140-60

### Precision Straightedge, 500mm

Suitable for cylinder heads with up to 4 cylinders.

Edges hardened, ground, lapped, with heat shield.

#### Technical Data:

Length:	500mm
Quality Description:	Stainless steel
Cross section:	40x7mm
Weight:	960g

#### Accessory:

**KL-0140-6101** Wooden case for precision straightedge



## KL-0140-61

### Precision Straightedge, 600mm

Suitable for Cylinder Heads with up to 6 cylinders.

Edges hardened, ground, lapped, with heat shield.

#### Technical Data:

Length:	600mm
Quality Description:	Stainless steel
Cross section:	40x7mm
Weight:	1,200g

#### Accessory:

**KL-0140-6101** Wooden case for Precision straightedge



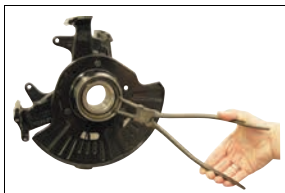
## KL-0140-6101

### Wooden Storage Case for Precision Straightedge

For storing the precision straight edge **KL-0140-60** or **KL-0140-61**.

#### Technical Data:

Length:	625mm
Weight:	400g



## KL-0192-5

### Circlip Pliers, Ø 40-100mm

Due to the 45° angled tips, this tool is ideal for inside circlips. Required for gearbox and wheel bearing repairs.

#### Technical Data:

Tip Ø:	2.5mm
Length:	220mm
Weight:	220g

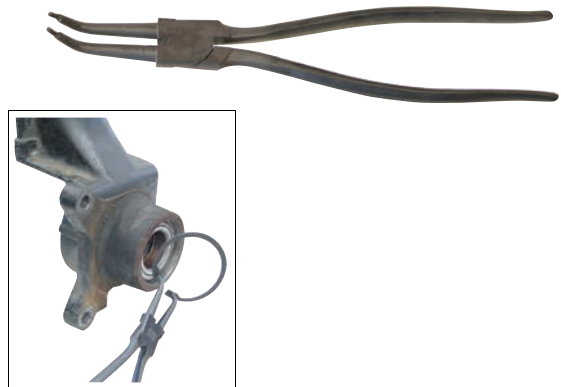
## KL-0192-6

### Circlip Pliers, Ø 85-165mm

The specially designed tips of the pliers (angled at 45°) allow for the trouble-free removal and installation of inner circlips when performing gearbox or wheel bearing repairs.

**Technical Data:**

Tip-Ø:	3mm
Length:	310mm
Weight:	410g



## KL-0192-823

### Pliers for Special Safety Rings

Suitable for large rings found on drive shafts in earth-movers, construction vehicles and agricultural vehicles.

**Technical Data:**

Length:	330mm
Tip form:	Inter-changeable, hook-shaped, wide, milled
Tip size [mm]:	3.5x8 spreading 8-75mm
Weight:	490g



## KL-0192-824

### Pliers for Special Safety Rings

Suitable for large rings on drive shafts and articulated axles, e.g. Opel/Vauxhall, VW-Audi.

**Technical Data:**

Length:	210mm
Tip-Form:	straight, pointed, short, milled
Tip size [mm]:	1.6x3.3 spreading 3.5-26mm
Weight:	190g



## KL-0192-825

### Circlip Pliers

Suitable for VW-Audi, Mercedes, Opel/Vauxhall, BMW, Ford, etc.

**Field of application:**

Deep-seated, large clips on gear shafts and articulated axles.

Ideal for drive shafts/cv-joints, engines and gearboxes.

**Technical Data:**

Length:	240mm
Tip-Form:	straight, centering spigot, long, slim
Min. opening:	5mm
Max opening:	40mm
Weight:	210g





## KL-0192-826 A Circlip Pliers

Suitable for VW-Audi, Mercedes, Opel/Vauxhall, BMW, Ford, etc.

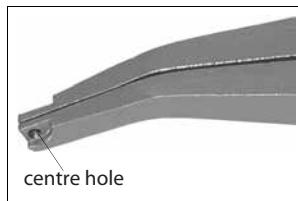
**Field of application:**

Large clips on gear shafts and articulated axles.

Ideal for drive shafts/cv-joints, engines and gearboxes.

**Technical Data:**

Length:	225mm
Tip form:	straight with retaining profile
Min. opening:	6.5mm
Max. opening:	35mm
Weight:	205g



## KL-0192-12 Circlip Pliers (angled)

Suitable for VW-Audi, Mercedes, Opel/Vauxhall, BMW, Ford, etc.

**Field of Application:**

Specially designed for deep-seated, large clips on gear shafts and articulated axles that are hard to access.

Ideal for use on drive shafts/cv joints, engines and gearboxes.

**Technical Data:**

Length:	200mm
Tip form:	30° angled, centring spigot, long, slim
Min. opening:	3mm
Max. opening:	35mm
Weight:	190g



## KL-0192-7 Circlip Pliers (angled 90°)

For brake callipers and gearboxes, angled 90°.

**Technical Data:**

Length:	190mm
Leg length:	60mm

## KL-0192-24 Snipe Nose Pliers (long design)

With extra long grip, straight tips for mounting position that are hard to access.

**Technical Data:**

Length:	280mm
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## KL-0192-25

### Snipe Nose Pliers (long design) 45°

With extra long grip, tips angled 45°, for mounting position that are hard to access.



**Technical Data:**

Length:	280mm
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## KL-4076-301

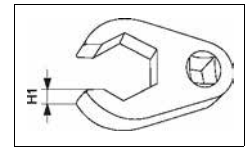
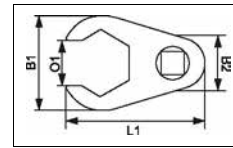
### Crowfoot Wrench Set

The exceptionally compact and solid design of these open-ended wrenches enables screws and nuts to be loosened and tightened, even if these are very tight-fitting or hard to access; for example on injection lines, hydraulic lines or compressed-air lines.



**Scope of Delivery: KL-4076-301 Crowfoot Wrench Set**

Part No.	Size (waf)	Length [L1]	Height [H1]	Width 1 [W1]	Width 2 [W2]	Opening [O1]	Drive
KL-4076-3017	17mm	49mm	10mm	35mm	27mm	13mm	3/8"
KL-4076-3018	18mm	49mm	10mm	35mm	27mm	14mm	3/8"
KL-4076-3019	19mm	49mm	10mm	36mm	27mm	15mm	3/8"
KL-4076-3022	22mm	57mm	12mm	40mm	32mm	17mm	1/2"
KL-4076-3024	24mm	60mm	12mm	43mm	33mm	19mm	1/2"



## KL-4076-302

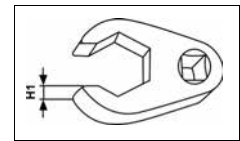
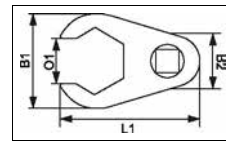
### Crowfoot Wrench Set

The exceptionally compact and solid design of these open-ended wrenches enables screws and nuts to be loosened and tightened, even if they are very tight-fitting or hard to access; for example on injection lines, hydraulic lines or compressed-air lines.



**Scope of Delivery: KL-4076-302 Crowfoot Wrench Set**

Part No.	Size (waf)	Length [L1]	Height [H1]	Width 1 [W1]	Width 2 [W2]	Opening [O1]	Drive
KL-4076-3027	27mm	62mm	12mm	48mm	34mm	23mm	1/2"
KL-4076-3030	30mm	68mm	12mm	52mm	37mm	24mm	1/2"
KL-4076-3032	32mm	72mm	13mm	56mm	39mm	26mm	1/2"



## KL-4076-401

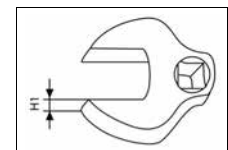
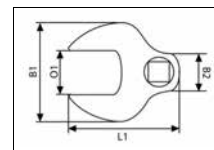
### Crowfoot Wrench Set

The exceptionally compact and solid design of these open-ended wrenches enables screws and nuts to be loosened and tightened, even if they are very tight-fitting or hard to access; for example on injection lines, hydraulic lines or compressed-air lines.



**Scope of Delivery: KL-4076-401 Crowfoot Wrench Set**

Part No.	Size (waf) [O1]	Length [L1]	Height [H1]	Width 1 [W1]	Width 2 [W2]	Weight	Drive
KL-4076-3036	36mm	81mm	12mm	75mm	29mm	280g	1/2"
KL-4076-3041	41mm	89mm	13mm	88mm	30mm	380g	1/2"
KL-4076-3046	46mm	91mm	13mm	92mm	32mm	400g	1/2"



**Accessories (on demand):**

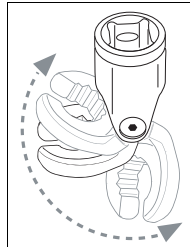
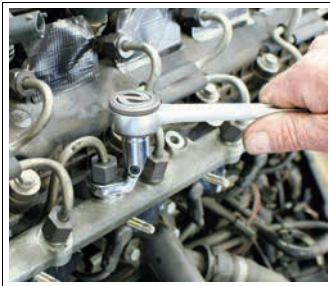
**1993 U-20** CODE:1436686 - Reversible ratchet



**3093 U-20** CODE:1556800 - Reversible ratchet 3/8" 200mm







## KL-4075-321 K Flexible Crowfoot Socket Wrench Set

Universally suitable for screwed pipe connections, for example, on brake systems, injection systems etc.

These tools are required for the loosening and tightening of screwed pipe connections. Thanks to the special design of the wrenches, even screw connections that are difficult to access can be reached quickly and without any trouble.

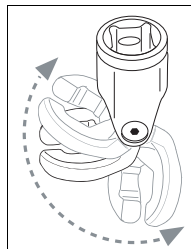
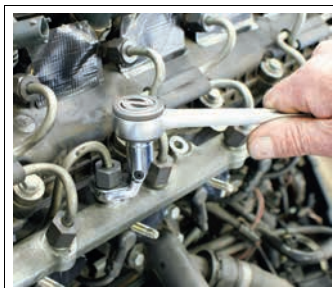
**Technical Data:**

Profile:	Double Hex
Drive:	3/8"

**Scope of Delivery:**

**KL-4075-321 K Flexible Crowfoot Socket Wrench Set**

Part No.	Description	Qty
KL-4075-3214	Flexible Crowfoot Socket Wrench, Size (waf) 14mm, bi-hex, 3/8"	1
KL-4075-3216	Flexible Crowfoot Socket Wrench, Size (waf) 16mm, bi-hex, 3/8"	1
KL-4075-3217	Flexible Crowfoot Socket Wrench, Size (waf) 17mm, bi-hex, 3/8"	1
KL-4075-3218	Flexible Crowfoot Socket Wrench, Size (waf) 18mm, bi-hex, 3/8"	1
KL-4075-3219	Flexible Crowfoot Socket Wrench, Size (waf) 19mm, bi-hex, 3/8"	1
KL-4074-3190	Plastic Storage Case	1



## KL-4074-311 KA Flexible Crowfoot Socket Wrench Set

Universally suitable for screwed pipe connections, for example, on brake systems, injection systems etc.

These tools are required for the loosening and tightening of screwed pipe connections. Thanks to the special design of the wrenches, even screw connections that are difficult to access can be reached quickly and without any trouble.

**Technical Data:**

Profile:	Hex
Drive:	3/8"

**Scope of Delivery:**

**KL-4074-311 KA Flexible Crowfoot Socket Wrench Set**

Part No.	Description	Qty
KL-4074-3111	Flexible Crowfoot Socket Wrench, Size (waf) 11mm, hex, 3/8"	1
KL-4074-3112	Flexible Crowfoot Socket Wrench, Size (waf) 12mm, hex, 3/8"	1
KL-4074-3114	Flexible Crowfoot Socket Wrench, Size (waf) 14mm, hex, 3/8"	1
KL-4074-3116	Flexible Crowfoot Socket Wrench, Size (waf) 16mm, hex, 3/8"	1
KL-4074-3117	Flexible Crowfoot Socket Wrench, Size (waf) 17mm, hex, 3/8"	1
KL-4074-3118	Flexible Crowfoot Socket Wrench, Size (waf) 18mm, hex, 3/8"	1
KL-4074-3119	Flexible Crowfoot Socket Wrench, Size (waf) 19mm, hex, 3/8"	1
KL-4074-3190	Plastic Storage Case	1

## KL-4004-112 Bit Ratchet (straight 1/4" and 5/16" with retaining magnet)

Reversible for left or right-hand rotation. With drives for 5/16" and 1/4" Bit Inserts. Each Bit drive has a knurled thumb-wheel for easy tightening of bolts before final tightening. The Bit Inserts are retained in the drive by a built-in magnet. Especially useful for areas that are difficult to access.

**Technical Data:**

Weight:	120g
Length:	140mm
Bit- Drive:	1/4"
Bit- Drive:	5/16"



## KL-4004-120

### Flexible Bit Holder, 1/4", with Flexible Extension

Especially useful for areas that are difficult to access.

**Technical Data:**

Length of Screw Driver:	375mm
Length of Extension:	135mm
Bit Drive:	1/4"
Weight:	250g



## KL-4064-602 K

### Set of Screwdriver Bit Sockets (5-Point Star), with Ratchet in a Storage Case

**For example, suitable for:**

- Plug-in pumps in pump-line-nozzle injection systems on Mercedes HGV (e.g. Atego, Actros)
- Outside mirror, Mercedes
- Mass air flow sensor as found on VW-Audi, Opel/Vauxhall etc.
- Immobiliser control unit (EWS3) on Rover 75 and MG ZT
- Door lock fastening screws on Ford Fusion

For loosening and tightening 5-point star safety bolts with bore.

**Screwdriver Bit Inserts (9 pieces):**

Drive 1/4" hex; size 10, 15, 20, 25, 27, 30, 40, 45, 50

**Reversible Bit Ratchet:**

hex 1/4"; fine toothed, left-/right reversible

**Plastic Storage Case**

**Technical Data:**

Size:	10, 15, 20, 25, 27, 30, 40, 45, 50mm
Drive (Bit insert):	hex 1/4"
Drive (Bit holder):	hex 1/4"
Length (Bit insert):	25mm
Length (ratchet):	94mm
Overall height (ratchet), incl. bit:	28mm
Overall weight:	140g



## KL-4031-3512

### Screwdriver Bit Socket XZN-M12, 78mm, drive 1/2"

For loosening and tightening XZN M12 fastening screws.

The ideal tool for the wheel bearing fastening screws found on VW Golf VI etc.

Reinforced design, however, not suitable for use with impact wrenches.



**Technical Data:**

Size:	XZN M12
Drive:	1/2"
Length:	78mm

**Accessories (on demand):**

1993 U-20 CODE:1436686 - Reversible ratchet

3093 U-20 CODE:1556800 - Reversible ratchet 3/8" 200mm





**Technical Data:**

Size:	XZN M14
Drive::	1/2"
Lenght:	78mm

### KL-4031-3514

Screwdriver Bit Socket, XZN-M14, 78mm, 1/2"

**Suitable for the clamping bolts that are found on shock absorber mounts at front axle steering knuckles on Audi A3 (8P); VW Passat (3C) and Golf V (1K); also for brake caliper mounting bolts on VW Touran and Passat (3C), Audi A3, Seat Altea, as well as for bolts on lower suspension ball joint connections on VW T4, T5.**

Designed to be used for loosening and tightening XZN M14 fastening bolts. Reinforced version; however, the socket is not suitable for use with an impact wrench.



### KL-4031-3518

Screwdriver Bit Socket, XZN-M18, 78mm, drive 1/2"

**Suitable e.g. for Audi A3, VW Polo, Golf V etc.**

This tool is designed to loosen and tighten rear axle wheel hub bearing unit fastening screws.

**Technical Data:**

Drive:	1/2"
Size:	XZN-M18
Length:	78mm



### KL-4031-4118

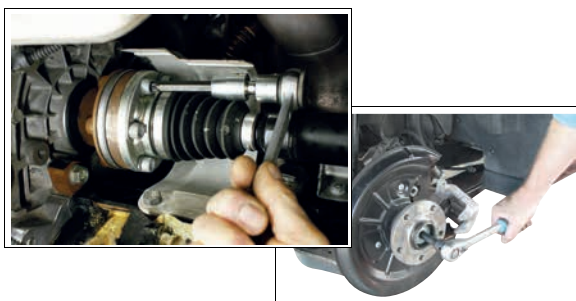
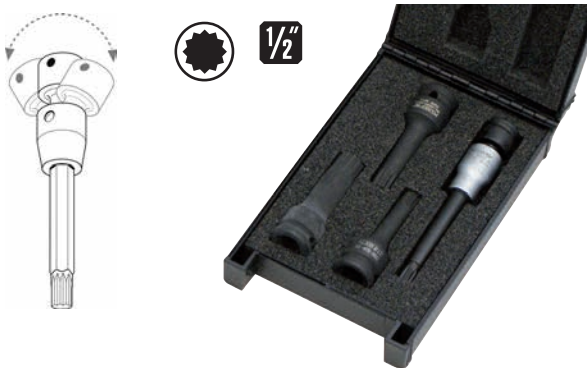
Screwdriver Bit Socket, XZN-M18, 3/4"

**Suitable for the wheel bearing central screws found at the rear axle on VW Golf V, Audi A3, Seat Altea etc.**

The **KL-4031-4118** Screwdriver Bit Socket (XZN-M18, 3/4") is used with a 3/4" breaker bar such as the **KL-4007-411** for the loosening, and in conjunction with a 3/4" torque wrench for the tightening, of the wheel bearing central screw at the rear axle.

**Technical Data:**

Drive:	3/4"
Size (waf):	XZN-M18
Maximum load capacity:	800Nm



### KL-4031-351 K

Screwdriver Bit Socket Kit

**Universal application. The ideal kit for VW-Audi, Seat, Škoda vehicles, e.g. Audi A3 (8P), VW Polo (6N), Golf IV (1J), Golf V (1K), Passat (3C), Touran (1T), T4; T5, Seat Altea (5P) etc.**

For loosening and tightening XZN fastening screws, for example those on brake calipers, wheel bearings, wheel-hub bearing units, suspension ball joints, drive shafts. Also suitable for shock absorber mount clamping screws on steering knuckles etc.

**Scope of Delivery: KL-4031-351 K Screwdriver Bit Socket Kit**

Part No.	Description	Qty
KL-4031-3512	Screwdriver Bit Socket, XZN-M12, 78mm, 1/2"	1
KL-4031-3514	Screwdriver Bit Socket, XZN-M14, 78mm, 1/2"	1
KL-4031-3518	Screwdriver Bit Socket, XZN-M18, 78mm, 1/2"	1
KL-0232-8	Flexible Multi-Tooth Socket, XZN M10	1
KL-4031-3590	Plastic Storage Case	1

**Accessories (on demand):**

**1993 U-20** CODE:1436686 - Reversible ratchet

**DMK 200** CODE:2641240

**Torque Wrench Dremaster 40-200Nm**



## KL-0232-..

### Multi-Spline Socket, XZN, 800mm

These special sockets enable drive shaft fixing screws to be loosened from the differential flange quickly and easily from the outside.  
Not intended for use with impact wrenches.

**Advantage:**

- Substantial time savings.

## KL-0232-1

### Multi-Spline Socket, XZN M8, 800mm

Suitable for VW-Audi, etc.

**Technical Data:**

Size (waf):	XZN M8
Drive:	1/2"
Length:	800mm

## KL-0232-2

### Multi-Spline Socket, XZN M10, 800mm

Suitable for VW Golf IV etc.

**Technical Data:**

Size (waf):	XZN M10
Drive:	1/2"
Length:	800mm

## KL-0232-3

### Multi-Spline Socket, XZN M12, 800mm

Suitable for VW T4, Touareg etc.

**Technical Data:**

Size (waf):	XZN M12
Drive:	1/2"
Length:	800mm

## KL-0232-4

### Multi-Spline Socket, XZN M14, 800 mm

Suitable for VW T4, Touareg etc.

**Technical Data:**

Size (waf):	XZN M14
Length:	800mm
Drive:	1/2"

## KL-0231-2

### Multi-Spline Socket, XZN, M16

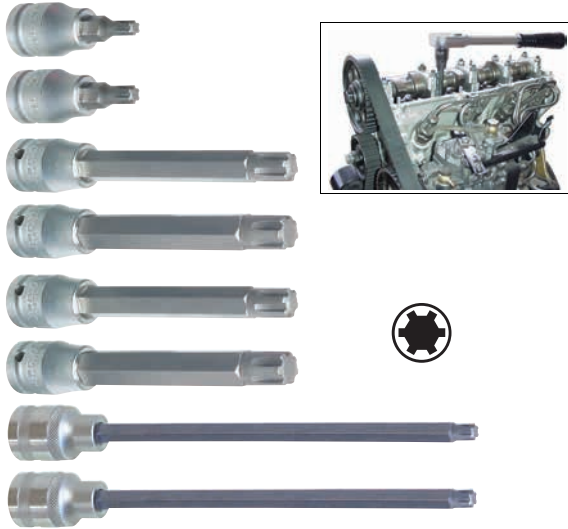
Suitable for Audi A3, A4, A6; VW Fox, Golf (IV), LT.

This special socket features an inner bore and is therefore the ideal tool for oil drain plugs and oil control plugs on gearboxes.

**Technical Data:**

Drive:	1/2"
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## KL-4051-331 B

### Screwdriver Bit Socket Set RIBE®, 1/2", 8-piece

Suitable for FIAT engines with RIBE® screws.

For loosening and tightening RIBE® screws on cylinder head valve drive housings etc.

**Technical Data:**

Drive:	1/2"
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**Scope of Delivery: KL-4051-331 B Screwdriver Bit Socket Set RIBE®, 1/2", 8-piece**

Part No.	Description	Qty
KL-4051-3007	Screwdriver Bit Socket RIBE® M7, 55mm, 1/2"	1
KL-4051-3008	Screwdriver Bit Socket RIBE® M8, 55mm, 1/2"	1
KL-4051-3311	Screwdriver Bit Socket RIBE® M10, 140mm, 1/2"	1
KL-4051-3312	Screwdriver Bit Socket RIBE® M12, 140mm, 1/2"	1
KL-4051-3313	Screwdriver Bit Socket RIBE® M13, 140mm, 1/2"	1
KL-4051-3314	Screwdriver Bit Socket RIBE® M14, 140mm, 1/2"	1
KL-4051-3406	Screwdriver Bit Socket RIBE® M6, 200mm, 1/2"	1
KL-4051-3408	Screwdriver Bit Socket RIBE® M8, 200mm, 1/2"	1

\* = registered trademark of Richard Bergner GmbH & Co. KG



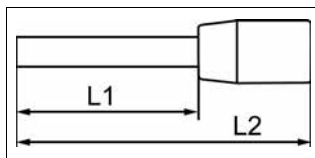
## KL-4051-3310

### Screwdriver Bit Socket, RIBE® M10

Ideal to remove and re-tighten cylinder head retaining bolts on VW-Audi engines with RIBE® similar profile.

**Technical Data:**

Drive:	1/2"
Length:	140mm
Weight:	100g



## KL-4045-3380

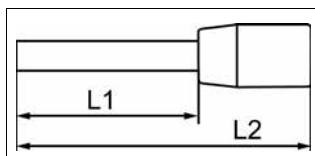
### Screwdriver Bit Socket Torx® T80

Manufactured from Chrome Vanadium Steel.

**Technical Data:**

Torx®:	T80
Drive:	1/2"
L1:	100mm
L2:	140mm
Weight:	250g

\* = reg. trademark of Acument Intellectual Properties, LLC. USA



## KL-4045-3390

### Screwdriver Bit Socket Torx® T90

Manufactured from Chrome Vanadium Steel.

**Technical Data:**

Torx®:	T90
Drive:	1/2"
L1:	100mm
L2:	140mm
Weight:	270g

\* = reg. trademark of Acument Intellectual Properties, LLC. USA

**Accessories (on demand):**

**1993 U-20** CODE:1436686 - Reversible ratchet



**DMK 200** CODE:2641240 - Torque Wrench Dremaster 40-200Nm



## KL-4045-3391

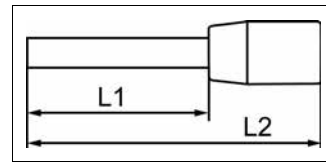
### Screwdriver Bit Socket Torx® T100

Manufactured from Chrome Vanadium Steel.

#### Technical Data:

Torx®:	T100
Drive:	1/2"
L1:	100mm
L2:	140mm
Weight:	300g

\* = reg. trademark of Acument Intellectual Properties, LLC. USA



## KL-4046-362

### Socket Set, Torx® E10 / E12 / E14 / E18, long, 1/2"

Applicable to BMW, Mercedes CDI engines, etc.

These Torx® Sockets in extended length with a built-in magnet enable the loosening and tightening of cheese-head screws with external Torx® profiles.

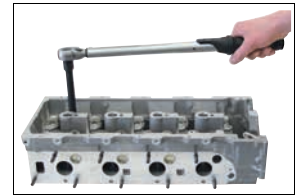
Scope of Delivery: KL-4046-362 Socket Set, Torx® E10 / E12 / E14 / E18, long, 1/2"

Part No.	Torx®	Drive	Length	Weight
KL-4046-3610	E10	1/2"	150mm	200g
KL-4046-3612	E12	1/2"	150mm	225g
KL-4046-3614	E14	1/2"	150mm	250g
KL-4046-3618	E18	1/2"	150mm	415g

\* = registered trademark of Acument Intellectual Properties, LLC. USA



1/2"



## KL-0380-7101

### External Hexalobular Socket, E14

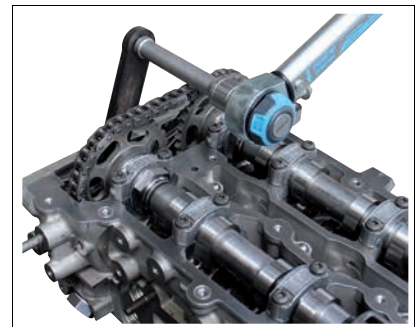
Suitable for use on Mercedes vehicles with a 2.1 litre, as well as Jeep vehicles with a 2.2 litre (OM651) Common Rail Diesel engine.

Engines fitted to, e.g.: Mercedes C-Class (W204), E-Class (W207, W212), GLK (X204), CLS (W218) and Sprinter (W906), as well as Jeep Compass (MK) etc.

(Engine codes: OM 651, 651.911, 651.912, 651.913, 651.916, 651.924, 651.925, 651.955, 651.956, 651.957, 651.961)

For the professional loosening/tightening of fastening screws (with Torx E 14 profile) found at camshaft sprockets.

Indispensable when changing a timing chain or performing engine repairs.



## KL-4022-241

### Screwdriver Bit Socket "Ball Head"

Extra-long design with ball head.

Ideal for loosening and tightening hex socket screws that sit very deep or are hard to access; e.g. on the oil pan, cylinder head, engine, drive, etc.

#### Application examples:

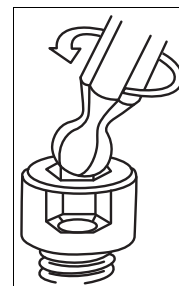
- KL-4022-2405 For oil sump bolts in VW T4 5-cylinder engines.
- KL-4022-2408 Removal and installation of knock sensor on Audi V6 engines.

#### Technical Data:

Drive:	1/2"
Length:	288mm

Scope of Delivery: KL-4022-241 Screwdriver Bit Socket "Ball head"

Part No.	Description	Qty
KL-4022-2405	Screwdriver Bit Socket "Ball Head", Size (waf) 5mm	1
KL-4022-2406	Screwdriver Bit Socket "Ball Head", Size (waf) 6mm	1
KL-4022-2408	Screwdriver Bit Socket "Ball Head", Size (waf) 8mm	1
KL-4022-2410	Screwdriver Bit Socket "Ball Head", Size (waf) 10mm	1





1/2"

3/8"

## KL-0100-6

### Extension (Length 600mm)

This tool is essential when performing work at the gearbox, engine and exhaust system.

**Technical Data:**

Drive:	1/2" to 3/8"
Length:	600mm



1/2"

## KL-4007-311

### Swivel Head Breaker Bar, 1/2", Length 620mm

Ultra-long design, with 180° swivel head.  
Ideal for loosening very tight/stuck screws.

**Technical Data:**

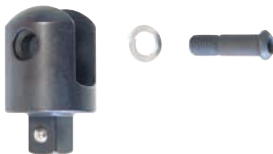
Overall length:	620mm
Drive:	1/2"
Max. load capacity:	512Nm



## KL-4007-3112

### Swivel Head

Spare part for breaker bar **KL-4007-311**.



## KL-4007-411

### Swivel Head Breaker Bar, 3/4", 980mm

Extra long design (980mm), with 180° swivel head.  
Ideal for loosening extremely tight/stuck screws.

**Technical Data:**

Drive:	3/4"
Overall length:	980mm



3/4"



## KL-4999-120

### Workshop Trolley/Workbench (without tools)

The sturdy workshop trolley/workbench **KL-4999-120** is designed to be used in conjunction with the stationary spring compressor **KL-5501** as well as with the wheel bearing/silentbloc tools of the **KL-0039-Series**, thus providing you with a professional and mobile workplace for accurate and quick chassis or axle repairs.

The large Multiplex worktop made from solid beech offers the ideal work surface. The convenient push handle and the smooth-running castors (125mm), two of them are steering castors with brakes, ensure the easy and mobile use of the trolley.

The 4 drawers feature an individual locking mechanism as well as a central lock designed to prevent any unintentional opening of the drawers.

Each drawer has a load capacity of up to 80kg. Thanks to the full-extension slides, the drawers can be pulled out completely, thus, allowing for proper storage, full visibility and easy access to the tools.

An ingenious "one-drawer-at-a-time" interlock mechanism prevents the opening of several drawers at the same time and, as a result, the trolley from tilting/tipping over.

The unique GEDORE Automotive Modular System allows you to customize each of the drawers with the foam inserts of the **KL-4999-131...-Series** and all the necessary tool sets to meet exactly your requirements. This provides you with the possibility of creating your own "Mobile Modular Workstation" - tailor-made and always perfectly adapted to your specific needs, thus helping you to significantly improve the productivity of your workshop.

The foam inserts of the **KL-4999-131...-Series** are designed to keep your GEDORE Automotive tools always properly organised and well protected. This ingenious tool storage system from GEDORE Automotive allows you to find the tool you need quickly and easily, and to identify missing tools at a glance. As a result, repairs can be carried out more efficiently - saving you time and money. The foam inserts are provided with specifically tool-shaped spaces to ensure that tools are safely stored and can be taken out and put back in place with ease.



#### Technical Data:

Dimensions:	W 1,200 x H 900 x D 600mm
Worktop:	W 1,200 x H 25 x D 600mm
Drawer (1x):	W 1,000 x H 100mm
Inner dimensions of drawer:	W 1,000 x H 95 x D 445mm
Drawer (2x):	W 1,000 x H 150mm
Inner dimensions of drawer:	W 1,000 x H 140 x D 445mm
Drawer (1x):	W 1,000 x H 200mm
Inner dimensions of drawer:	W 1,000 x H 190 x D 445mm
Steering castor with brake (2x):	Ø 125mm
Fixed castor (2x):	Ø 125mm
Weight:	125kg

## KL-4999-121

### Workshop Trolley/Workbench (without tools)

The sturdy workshop trolley/workbench - **KL-4999-121** in conjunction with, for example, our universal glow plug tool set, injector nozzle puller set, counter-hold tool kit and the 17t hydraulic cylinder (short design with pull spindles) provides you with a highly functional and mobile workplace allowing for professional and cost-effective maintenance work and repairs to engines.

The large Multiplex worktop made from solid beech offers the ideal work surface.

The convenient push handle and the smooth-running castors (125mm), two of them are steering castors with brakes, ensure the easy and mobile use of the trolley.

The 5 drawers feature an individual locking mechanism as well as a central lock designed to prevent any unintentional opening of the drawers.

Each drawer has a load capacity of up to 80kg. Thanks to the full-extension slides, the drawers can be pulled out completely, thus, allowing for proper storage, full visibility and easy access to the tools.

An ingenious "one-drawer-at-a-time" interlock mechanism prevents the opening of several drawers at the same time and, as a result, the trolley from tilting/tipping over.

The unique GEDORE Automotive Modular System allows you to customize the drawers with foam inserts and tool sets according to your specific needs. This makes the workshop trolley/workbench the ideal equipment for a perfectly organised and mobile workplace - helping you to significantly improve the productivity of your workshop.

The special foam inserts are designed to keep your GEDORE Automotive tools always properly organised and well protected. This ingenious tool storage system from GEDORE Automotive allows you to find the tool you need quickly and easily, and to identify missing tools at a glance. As a result, repairs can be carried out more efficiently - saving you time and money. The foam inserts are provided with specifically tool-shaped spaces to ensure that tools are safely stored and can be taken out and put back in place with ease.



#### Technical Data:

Dimension:	W 1,200 x H 900 x D 600mm
Worktop:	W 1,200 x H 25 x D 600mm
Drawer (4x):	W 1,000 x H 100mm
Inner dimension of drawer:	W 1,000 x H 95 x D 445mm
Drawer (1x):	W 1,000 x H 200mm
Inner dimension of drawer:	W 1,000 x H 190 x D 445mm
Steering castor with brake (2x):	Ø 125mm
Fixed castor (2x):	Ø 125mm
Weight:	125kg



KL-4999-1202



KL-4999-1203



## KL-4999-12..

Drawer Divider, (with Rivets)

Designed to divide the drawers of the workshop trolley **KL-4999-120**.

## KL-4999-1202

Drawer Divider, 100mm (with Rivets)

## KL-4999-1203

Drawer Divider, 60mm (with Rivets)

## KL-4999-13..

Drawer Bottom Insert



## KL-4999-1326

Drawer Bottom Insert, 133mm

## KL-4999-1327

Drawer Bottom Insert, 305mm

## KL-4999-1328

Drawer Bottom Insert, 478mm

## KL-4999-1329

Drawer Bottom Insert, 651mm

## KL-4990-1003

Plastic Storage Case

**Universal Plastic Storage Case with Foam Paddings.**

The robust stackable plastic storage case comes with a convenient carry handle and is designed to ensure safe transportation and storage of your tools.

The case features "egg-crate" interior foam paddings both in the lid and the bottom to provide optimum protection for the contents.

KL-4990-1003



KL-4990-1007



KL-4990-1018



## KL-4990-1003 Plastic Storage Case

**Dimensions:**

Outer:	255x210x60mm (WxHxD)
Inner:	244x161x54mm (WxHxD)

## KL-4990-1007 Plastic Storage Case

**Dimensions:**

Outer:	340x275x83mm (WxHxD)
Inner:	326x222x77mm (WxHxD)

## KL-4990-1018 Plastic Storage Case

**Dimensions:**

Outer:	450x360x123mm (WxHxD)
Inner:	437x295x116mm (WxHxD)

## KL-4990-11.. Plastic Storage Case

### Universal Plastic Storage Case with Foam Insert.

The robust stackable plastic storage case comes with a convenient carry handle and is designed to ensure safe transportation and storage of your tools.

The case features foam inserts both in the lid and the bottom to provide optimum protection for the contents.

The transparent plastic boxes of the **KL-4990-20.. Series** allow you to store small items and tools neatly arranged in the storage case.

## KL-4990-1103 Plastic Storage Case

### Dimensions:

Outer:	255x210x60mm
Inner:	244x161x54mm

## KL-4990-1107 Plastic Storage Case

### Dimensions:

Outer:	340x275x83mm
Inner:	326x222x77mm

## KL-4990-1118 Plastic Storage Case

### Dimensions:

Outer:	450x360x123mm
Inner:	437x295x116mm

KL-4990-1103



KL-4990-1107



KL-4990-1118



## KL-4990-2001 Plastic Storage Box

The transparent plastic box is universally suitable and fits perfectly the plastic storage cases of the **KL-4990-10..** and **KL-4990-11.. Series**.

This very useful plastic box allows you to store small items and tools neatly arranged in the storage case.

Transparent design for easy identification of the contents without having to open the box.

## KL-4990-2001 Plastic Storage Box

### Dimensions:

Inner:	107x53x18mm
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## KL-4990-2002 Plastic Storage Box

### Dimensions:

Inner:	107x53x40mm
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## KL-4990-2003 Plastic Storage Box

### Dimension:

Inner:	138x82x27mm
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## KL-4990-2004 Plastic Storage Box

### Dimension:

Inner:	138x82x40mm
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KL-4990-2001



KL-4990-2002



KL-4990-2003



KL-4990-2004



# The Mobile Modular Tool Storage System „MODULO“

The modular Tool Storage System “MODULO” provides the user with the possibility to create a versatile and mobile workplace that meets exactly their own particular needs. The workstations can be individually equipped with all the necessary “MODULO” tool kits for fast, organised and cost-effective repairs/maintenance work in the areas of:

- Engine timing/valve train, replacement of timing belts/timing chains.
- Wheel bearings, suspension ball joints, bushings.
- Changing coil springs/shock absorbers.
- Passenger car petrol- and Diesel engines.
- HGVs and light commercial vehicles.

Possible  
equipment for  
‘Engine Timing/  
Valve Train’  
applications

The “MODULO” workshop trolley/workbench with its large, solid Multiplex worktop provides the user with the ideal work surface suitable for a variety of jobs; for example, by allowing for the convenient mounting of the **KL-5501** stationary spring compressor. The lateral push handle and the smooth-running castors (125mm) - two of them are steering castors with double brakes – ensure easy and mobile use of the trolley. The “MODULO” is available in various designs, with either 4 or 5 drawers all featuring an individual locking mechanism as well as a central lock designed to prevent any unintentional opening of the drawers. Each drawer has a load capacity of up to 80kg and can be pulled out completely thanks to full-extension slides. The “one-drawer-at-a-time” interlock mechanism prevents the opening of several drawers at the same time and, as a result, the trolley from tilting/tipping over. The foam inserts of the **KL-4999-.. Series** are designed to keep your GEDORE Automotive tools always properly organised and well protected. This ingenious tool storage system from GEDORE Automotive allows you to find the tool you need quickly and easily, and to identify missing tools at a glance. As a result, repairs can be carried out more efficiently - saving you time and money. The foam inserts are provided with specifically tool-shaped spaces to ensure that tools are safely stored and can be taken out and put back in place with ease.





Counter-Holding Tool Kit  
**KL-0184-011 E**



Locking Tool Set  
**KL-1380-102 E**  
PSA



Locking Tool Set  
**KL-1682-27 E**  
Fiat



Locking Tool Set  
**KL-0180-107 E**  
universal



Locking Tool Set  
**KL-0280-64 E**  
VW



Locking Tool Set  
**KL-0280-65 E**  
VW



Locking Tool Set  
**KL-0580-713 E**  
BMW



Locking Tool Set  
**KL-0580-755 E**  
BMW



Locking Tool Set  
**KL-0580-756 E**  
BMW



Locking Tool Set  
**KL-0482-49 E**  
Opel/Vauxhall



Locking Tool Set  
**KL-0680-29 E**  
Ford



Locking Tool Set  
**KL-1280-102 E**  
Renault



## VDE-Tool Assortment

### 1100-1094 Code 2979063 - VDE-Assortment Hybrid 53 pieces

- The perfect range of tools for repairs and maintenance of hybrid and electric vehicles.
- For vehicles of all the manufacturers.
- All tools insulated on the basis of EN 60900/EC 60900.
- GEDORE L-BOXX® 136 compatible with the Sortimo® vehicle interior fittings in your service mobile.



#### Contents:

VDE 30 6 8 9 10 11 12 13 14 15 16 17 18 19 20 22  
 VDE INX 30 8 10 12  
 VDE 3090-3 -6  
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 VDE 2160 PH 1 2 3  
 VDE 2163 TX T20 T25 T30  
 VDE 8094  
 VDE 146 10  
 VDE 8250-200 H  
 VDE 8314-180 H  
 VDE 8132 AB-200 H  
 VDE 8



# AUTOMOTIVE TOOLS

## HVG Highlights

formerly **KLANN**



**GEDORE**  
TOOLS FOR LIFE

KLANN has become GEDORE

## Ingenious innovative.

We are one of the world's leading manufacturers of specialist automotive tools - **so far you have known us under the brand name KLANN, now we are GEDORE!**

Following the brand integration into the GEDORE Group, KLANN Spezial-Werkzeugbau GmbH has become GEDORE Automotive GmbH with effect from 1 January 2016. All premium brands and products of the GEDORE Group are now marketed under the renowned brand name GEDORE. In addition to the premium brand GEDORE, carolus continues to be GEDORE's second brand which stands for reliable professional tools in the mid-price segment. With this new brand strategy, GEDORE has positioned itself more clearly in the market as a one-stop provider of smart solutions with a wide, high-quality product range of more than 16,000 items.

What you can continue to expect from us: innovative and safe specialist tools, and hands-on training courses focusing on the correct use of our tools - for any type of vehicle!

formerly **KLANN**



## KL-0165-3 KA (Pat. e.g. US-Patent 5,906,034) Ball Joint Extractor Set (with 6 Forks)

**Universally suitable for HGV and light commercial vehicles/vans etc.**

An indispensable tool set for the quick and easy separation of ball joint connections in axle/suspension and steering systems.

The ever-increasing number of different ball joints used in today's vehicle suspension and steering systems has led to the need for an ever-widening range of ball joint extractors for separating ball joint connections from steering knuckles/stub axles and steering arms.

This is mainly due to the different diameters and sizes of the ball joints. In addition, ball joints with conical pivot pins require extractors featuring extremely high stability and strength in order to achieve easy separation. When separating ball joint connections, it is decisive that the angle and the correct pressure point for the separation can be adjusted on the extractor.

With the ball joint extractor set **KL-0165-3 KA** (composed of base tool **KL-0165-300** and forks (e=80mm, d=200mm) **KL-0165-3001** a=30mm, **KL-0165-3101** a=34mm, **KL-0165-3201** a=40mm, **KL-0165-3301** a=42mm, **KL-0165-3401** a=47mm und **KL-0165-3501** a=30mm), GEDORE offers automotive service technicians and mechanics a tool with high stability and universal application possibilities. The extractor can easily be adjusted to the respective ball joint diameter and pivot pin height - simply by changing the forks.

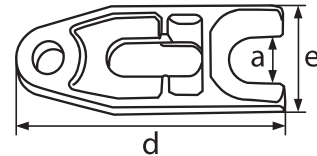
The ball joint extractor set is supplied in a plastic storage case.



### Scope of Delivery:

#### KL-0165-3 KA Ball Joint Extractor Set (with 6 Forks)

Part No.	Description	Qty
KL-0165-300	Base Tool without Fork (Spindle M24x1.5)	1
KL-0165-3001	Fork a=30mm, e=80mm, d=200mm e.g. suitable for Landini Tractors	1
KL-0165-3101	Fork a=34mm, e=80mm, d=200mm	1
KL-0165-3201	Fork a=40mm, e=80mm, d=200mm e.g. suitable for Mercedes, MAN, Scania, Volvo, etc.	1
KL-0165-3301	Fork a=42mm, e=80mm, d=200mm e.g. suitable for Mercedes, MAN, Scania, Volvo, etc. and John Deere-Tractors	1
KL-0165-3401	Fork a=47mm, e=80mm, d=200mm	1
KL-0165-3501	Fork a=33mm, e=80mm, d=200mm e.g. suitable for suspension ball joints MB Sprinter (1995 onwards) and VW LT (1998 onwards), upper ball joint VW T4 etc.	1
KL-0165-3090 A	Plastic Storage Case	1



## KL-0165-36 (Pat. e.g. US-Patent 5,906,034) Ball Joint Extractor, Size 3

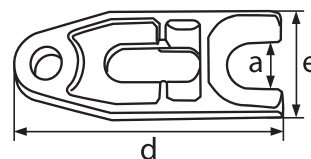
**Suitable for the thrust rod on the reversing lever at the front axle of MAN Buses A21. (Fork opening a=40 mm)**

The ball joint extractor **KL-0165-36** (composed of **KL-0165-300** and **KL-0165-3601**) is the ideal tool for separating ball joint connections in axle/suspension and steering systems.

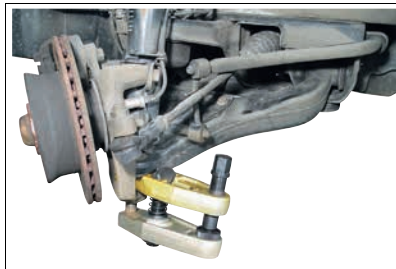
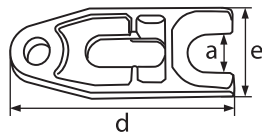
### Scope of Delivery:

#### KL-0165-36 Ball Joint Extractor, Size 3, 40 mm

Part No.	Description	Qty
KL-0165-300	Base Tool without Fork (Spindle M24x1.5)	1
KL-0165-3601	Fork - a=40mm - e=80mm - d=200mm	1







## KL-0165-35

(Pat. e.g. US-Patent 5,906,034)

### Ball Joint Extractor, Size 3

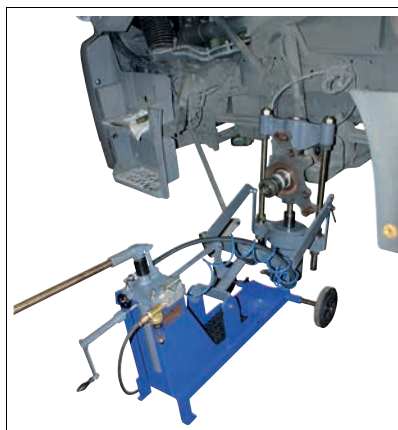
**Suitable for the suspension ball joints found on Mercedes Sprinter (1995 onwards) and VW LT (1998 onwards); upper ball joints on VW T4, stabiliser ball joints on Mercedes Citaro EvoBus O 530 etc. (Fork opening a=33mm)**

The ball joint extractor **KL-0165-35** (composed of **KL-0165-300** and **KL-0165-3501**) is the ideal tool for separating ball joint connections in axle/suspension and steering systems.

#### Scope of Delivery:

##### KL-0165-35 Ball Joint Extractor, Size 3

Part No.	Description	Qty
KL-0165-300	Base Tool without Fork (Spindle M24x1.5)	1
KL-0165-3501	Fork - a=33mm - e=80mm - d=200mm	1



## KL-1000-20

### King Pin Press (65t), with Sleeve Set

This press enables king pins on lorries to be pressed in and pressed out quickly and without any trouble.

The hydraulic press can be used directly on the vehicle - thanks to its unique and compact design featuring an integrated hand pump, the hydraulic cylinder equipped with a quick pneumatic 'Extend / Retract' stroke valve, as well as the universally pre-adjustable press frame with an exchangeable bridge.

#### Advantages:

- Universal application, can be used in situ on the vehicle as well as in a free-standing position.
- Substantial time savings.
- Universally adjustable, 180° swivelling press frame.
- The three-axle quick adjustment mechanism allows for the quick and easy positioning of the tool on the vehicle.

#### Technical Data:

Press force capacity:	65t
Clearance between puller bolts:	275mm
Clearance height (max.):	480mm
Stroke:	120mm
Nominal pressure:	420bar
Air supply (max.):	13bar
Weight:	approx. 130kg
Oil filling volume:	approx. 3.5 Litres

#### Scope of Delivery:

##### KL-1000-20 King Pin Press (65t), with Sleeve Set

Part No.	Description	Qty
KL-1000-200	King Pin Press (65t), without Sleeve Set	1
KL-1000-230 A	Sleeve Set	1

## KL-0100-632

Socket, Size (waf) 32mm, 400mm, 3/4"

**Suitable for wheel nuts found on HGV/commercial vehicles.**

Very useful tool for loosening and tightening wheel nuts on HGV/commercial vehicles.

**Technical Data:**

Size (waf):	32mm
Length:	400mm
Drive:	3/4"



## KL-0100-633

Socket, Size (waf) 33mm, 400 mm, 3/4"

**Suitable for wheel nuts found on HGV/commercial vehicles.**

Very useful tool for loosening and tightening wheel nuts on HGV/commercial vehicles.

**Technical Data:**

Size (waf):	33mm
Length:	400mm
Drive:	3/4"



## KL-4043-4132

Socket, EP32, 45mm

**Suitable for screw-fitted connections (with Torx-Plus® Profile) on axle components at Mercedes HGVs/commercial vehicles. Can be found, for example, in Actros MP4 etc.**

Designed for the professional loosening/tightening of screws having a Torx-Plus® Profile EP32, such as used on various axle parts in Mercedes HGVs/commercial vehicles

**Technical Data:**

Drive:	3/4"
Length:	45mm
Size (waf):	EP32



## KL-4043-4232

Socket, EP32, 90mm

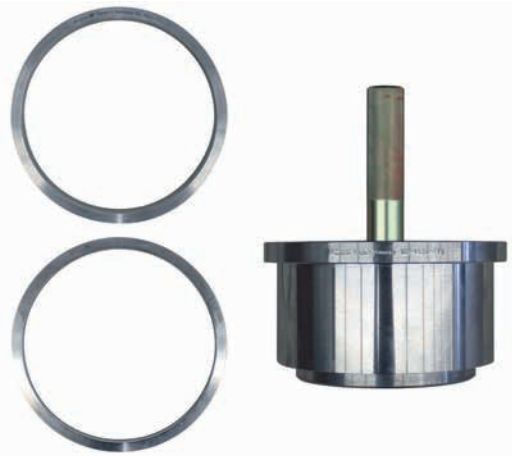
**Suitable for screw-fitted connections (with Torx-Plus® Profile) on axle components at Mercedes HGVs/commercial vehicles. Can be found, for example, in Actros MP4 etc.**

Designed for the professional loosening/tightening of screws having a Torx-Plus® Profile EP32, such as used on various axle parts in Mercedes HGVs/commercial vehicles.

**Technical Data:**

Drive:	3/4"
Length:	90mm
Size (waf):	EP32





**Note:**  
The **KL-1025-1752 A** and **KL-1025-1753 A** rings are needed for the **746.21** and **748.59** rear axle series with double seal.

## KL-1025-175

### Shaft Seal Installation Tool, Ø 175mm

**Applicable to Mercedes ACTROS and ATEGO rear axle shaft seals.**

(e.g. ACTROS rear axle MB-No. - 746.217\_O / - 770.001\_F / - 771.0\_F / - 771.1\_F / - 740.8\_S / - 746.210\_S / - 748.2\_S / - 748.7\_S / - 746.213\_S / - 741.71\_S / - 746.21\_S / - 746.301\_S / - 748.59\_S and ATEGO 9t rear axle MB-No. - 770.003\_F, - 770.002\_F, - 770.000\_F.)

The **KL-1025-175** shaft seal installation tool is indispensable for the professional and correct mounting of the shaft seals used on Mercedes ACTROS and ATEGO rear axles.

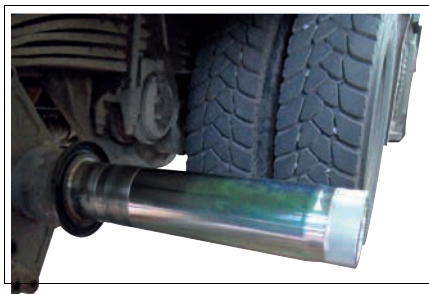
**Technical Data:**

Ø:	175mm
Weight:	4.7kg

**Scope of Delivery:**

**KL-1025-175 Shaft Seal Installation Tool, Ø 175mm**

Part No.	Description	Qty
KL-0125-1751	Shaft Seal Installation Tool, Ø 175mm	1
KL-1025-1752 A	Ring, 7.5mm	1
KL-1025-1753 A	Ring, 17.5mm	1



## KL-1027-100

### Wheel Bearing Centring Sleeve, Ø 105mm

**Applicable to MAN HY 1350 rear axles, e.g. at TGA, TGX etc.**

Designed for the professional installation of compact wheel bearings with wheel hub. Allows the user to slide the bearing on the axle tube accurately and without risk of jamming.

**Technical Data:**

Connection thread:	M100x1.5
Outer-Ø:	105mm
Length:	360mm

## KL-1027-7578

### Wheel Bearing Centring Sleeve, Ø 78mm

**Applicable to Mercedes rear axle HL 2/43 type 742.503 / 504 / 505 / 506 / 509 e.g. at Atego, Atego 2, Tourino.**

Designed to install compact wheel bearings with wheel hub. Allows the user to slide the bearing on the axle tube accurately and without the risk of jamming.

**Technical Data:**

Connection thread:	M75x1.5
Size (waf):	41mm
Length:	186mm
External Ø:	78mm



## KL-1027-7582

### Wheel Bearing Centring Sleeve, Ø 82mm

**Applicable to MAN rear axle HY-0925-00, e.g. at TGL, TGM.**

Designed to install compact wheel bearings with wheel hub. Allows the user to slide the bearings on the axle tube accurately and without the risk of jamming.

**Technical Data:**

Connection thread:	M75x1.5
Size (waf):	41mm
Length:	197mm
External Ø:	82mm



## KL-1029-20 K HGV Wheel Removal Press Kit

**Universally suitable for stuck HGV wheels (single and dual tire applications).**

The HGV wheel removal press kit is designed to be used in conjunction with the **KL-0215-35** hydraulic hand pump (accessory), thus allowing even the most stubborn rims to be loosened/removed safely from the wheel hub. Also suitable for dual tire applications.

**Note:** The HGV wheel removal press must only be used in conjunction with a hydraulic hand pump.

### Technical Data:

Maximum load capacity of the hydraulic cylinder:	10t
Length (Thrust piece "1"):	25mm
Length (Thrust piece "2"):	50mm
Length (Thrust piece "3"):	75mm
Connection thread for hydraulic coupling:	3/8"NPT



## KL-1001-251 A Set of Sleeves for Drawbar Silentbloc

**Suitable for silentblocs with a bore Ø of 57mm, for example for those found on „Regensburger“ HGV trailer drawbars.**

The **KL-1001-251 A** sleeve set is used in conjunction with retaining adaptor **KL-0039-1003**, pull spindle **KL-0039-1920** and hydraulic cylinder **KL-0040-2500**, thus allowing for the quick and easy removal and replacement of HGV drawbar silentblocs.

### Scope of Delivery:

**KL-1001-251 A Set of Sleeves for Drawbar Silentbloc**

Part No.	Description	Qty
KL-1001-2501	Pressure Piece	1
KL-0039-1772	Pressure-/Support Sleeve (long) Ø 72mm	1
KL-1001-2502	Conical Sleeve	1



## KL-1010-101 M28 Drive Tool Kit without Hydraulic Cylinder, Ø 70mm

The tool kit is used in conjunction with the **KL-0040-2800** hydraulic cylinder. It is needed to drive the pressure piece-/sleeve sets of the **KL-1010-.. Series**.

### Scope of Delivery:

**KL-1010-101 M28 Drive Tool Kit without Hydraulic Cylinder, Ø 70mm**

Part No.	Description	Qty
KL-1010-1010	Set of Drive Sleeves, Ø 70mm	1
KL-0040-2846	Pull Spindle M20, with Clamping Nut	1
KL-0039-1003	Retaining Adaptor with O-Ring, for Hydr. Cyl.	1





## KL-1010-140 A

### Pressure Piece/Sleeve Set, Ø 65mm

Suitable for split-type silentblocs with Ø of 65mm (removed 70mm) as found on Mercedes Actros front axle anti-roll bars.

The pressure piece / sleeve set **KL-1010-140 A** is used with the **KL-1010-100 A** drive tool kit thus allowing for the quick, professional and safe removal and installation of split-type silentblocs on anti-roll bars.

The removal and installation of the silentbloc can either be carried out at a work bench or directly on the vehicle if space conditions allow.

#### Scope of Delivery:

#### KL-1010-140 A Pressure Piece/Sleeve Set, Ø 65mm

Part No.	Description	Qty
KL-1010-1401	Conical Sleeve, Ø 65mm	1
KL-1010-1402 A	Spring Pressure Piece, Ø 65mm	1
KL-1010-1403	Centring Ring, Ø 65mm	1
KL-1010-1404	Centring Ring, Ø 65mm	1
KL-1010-1406	Pressure Piece (removal), Ø 65mm	1



## KL-1010-220

### Pressure Piece/Sleeve Set, Ø 75mm

Suitable for split-type silentblocs with Ø of 75mm (removed 80mm), e.g. Mercedes Actros and Atego rear axle anti-roll bar.

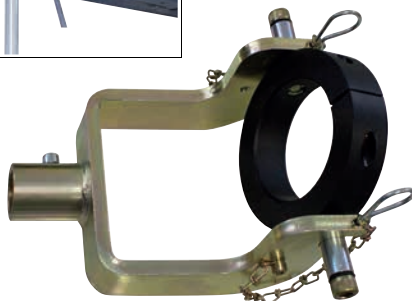
Used in conjunction with the **KL-1010-102** drive tool kit, the pressure piece/sleeve set **KL-1010-220** allows for the fast, professional and safe removal and replacement of split-type silentblocs on anti-roll bars.

Removal and installation of the silentbloc can either be carried out at a work bench or directly on the vehicle if space conditions allow.

#### Scope of Delivery:

#### KL-1010-220 Pressure Piece /Sleeve Set, Ø 75mm

Part No.	Description	Qty
KL-1010-2201	Conical Sleeve, Ø 75mm	1
KL-1010-2202	Spring Pressure Piece, Ø 75mm	1
KL-1010-2203	Centring Ring, Ø 75mm	1
KL-1010-2204	Centring Ring, Ø 75mm	1
KL-1010-2205	Pressure Piece (removal), Ø 75mm	1
KL-1010-2206	Support Ring	1



## KL-0040-258 A

### Retaining Device

### for Hydraulic Cylinder KL-0040-2500

The **KL-0040-258 A retaining device** is used in conjunction with a transmission jack (Plunger Ø 30mm) thus allowing for the easy and trouble-free operation of all those GEDORE Automotive tools that are driven by the **KL-0040-2500** hydraulic cylinder.

#### Technical Data:

Retaining Ø:	30mm
Weight:	2.6kg

#### Scope of Delivery:

#### KL-0040-258 A Retaining Device for Hydraulic Cylinder KL-0040-2500

Part No.	Description	Qty
KL-0040-2580 A	Retaining Device without Clamp Ring	1
KL-0040-2587	Clamp Ring for Hydraulic Cylinder	1

## KL-0040-2500

### Hydraulic Cylinder, 17t

Thanks to its special design as a hollow piston cylinder, the **KL-0040-2500** hydraulic cylinder (17t) can be used to perform pulling as well as pushing operations in conjunction with the corresponding spindles available as accessories.

#### Range of Use:

In conjunction with various GEDORE Automotive tools, the hydraulic cylinder (17t) **KL-0040-2500** can be used for the removal and installation of drive shafts, wheel hubs, wheel bearings, silentblocs and suspension ball joints.



#### Technical Data:

Maximum admissible force:	170kN (17t)
Maximum stroke:	45mm
Maximum oil pressure:	700bar
Maximum volume of oil:	122cm <sup>3</sup>
Piston area:	27cm <sup>2</sup>
Thread in hollow piston:	M20
Retaining thread (pushing side):	2¼"-14 UNS
Retaining thread (pulling side):	M42x2
Cylinder external diameter:	80mm
Cylinder overall length (piston retracted):	202mm
Cylinder overall length (piston extended):	247mm
Hydraulic fluid connection thread:	3/8" NPT
Weight:	5.2kg

#### Note:

A hydraulic pump is needed to drive the hydraulic cylinder **KL-0040-2500**. For accessories such as coupling, hydraulic pump, pressure gauge etc., please refer to chapter 4 (GEDORE Automotive Main Catalogue).

## KL-0215-35 M25

### Hydraulic Hand Pump

The **KL-0215-35 M25** hydraulic hand pump is designed to be used as a drive for the hydraulic cylinders **KL-0040-2500** and **KL-0040-170**.

The hydraulic pressure and necessary force can be monitored while operating the pump at pressure gauge **KL-0040-2529** (supplied with the tool set). The pressure gauge features an additional tonne scale specifically adapted to our **KL-0040-2500** hydraulic cylinder (17t).



#### Scope of Delivery:

##### KL-0215-35 M25 Hydraulic Hand Pump

Part No.	Description	Qty
KL-0215-33	Hydraulic Hand Pump (without hose)	1
KL-0215-31	Hydraulic Hose, 1.8m, with Hose-Side Connector	1
KL-0215-322	Cylinder-Side Connector, 1/4" NPT	1
KL-0040-2520	Adaptor, 3/8" NPT to 1/4" NPT	1
KL-0040-2529	Pressure Gauge	1

#### Technical Data:

Weight:	7.5kg
Max. pressure:	700bar

#### Note:

A hydraulic hand pump with pressure gauge precisely adapted to the hydraulic cylinder **KL-0040-2200** (10t) or **KL-0040-2800** (28t) available upon request.

## KL-0215-36 M25

### Hydraulic Pump (Pneumatic)

The pneumatic hydraulic pump **KL-0215-36 M25** is designed to be used as a drive for hydraulic cylinders. Compressed air is used to power the hydraulic pump. The pump is operated by a foot pedal with 3 positions - for pumping, holding and releasing.

**Advantage:** Both hands free to work.

#### Scope of Delivery:

##### KL-0215-36 M25 Hydraulic Pump (Pneumatic)

Part No.	Description	Qty
KL-0215-360	Hydraulic Pump (without Hose)	1
KL-0215-362	Hydraulic Hose, 2.5m, with Hose-Side Coupling	1
KL-0215-322	Cylinder-Side Coupling 1/4" NPT	1
KL-0040-2520	Adaptor 3/8" NPT to 1/4" NPT	1
KL-0040-2529	Pressure Gauge	1



#### Technical Data:

Maximum Pressure:	700bar
Operating Pressure:	8-12bar
Weight:	8kg



**Note:**  
A hydraulic pump is required to drive the hydraulic cylinder **KL-0040-2800**.

## KL-0040-2800 Hydraulic Cylinder, 28t

Thanks to its special design as a hollow piston cylinder, the **KL-0040-2800** hydraulic cylinder (28t) can be used to perform pulling and pushing operations in conjunction with the corresponding spindles available as accessories.

**Application:**

In conjunction with various GEDORE Automotive tools, the hydraulic cylinder **KL-0040-2800** can be used for the removal and installation of drive shafts, wheel hubs, wheel bearings, silentblocs and suspension ball joints.

**Technical Data:**

Maximum admissible force:	285kN (28t)
Maximum stroke:	50mm
Maximum volume of oil:	216.3cm <sup>3</sup>
Maximum oil pressure:	700bar
Piston area:	40.6cm <sup>2</sup>
Thread in tubular piston:	M24
Retaining thread (pushing side):	2 3/4"-16 UNS
Retaining thread (pulling side):	M42x2
Cylinder outer diameter:	99mm
Cylinder overall length (piston retracted):	235mm
Cylinder overall length (piston extended):	285mm
Hydraulic fluid connection thread:	3/8" NPT
Weight:	9.6kg

## KL-0215-35 M28 Hydraulic Hand Pump

The **KL-0215-35 M28** hydraulic hand pump is designed to be used as a drive for the hydraulic cylinder **KL-0040-2800**.

The hydraulic pressure and necessary force can be monitored while operating the pump at pressure gauge **KL-0040-2829** (supplied with the tool set). The pressure gauge features an additional tonne scale which is specifically adapted to our **KL-0040-2800** hydraulic cylinder (28t).

**Scope of Delivery:**

**KL-0215-35 M28 Hydraulic Hand Pump**

Part No.	Description	Qty
KL-0215-33	Hydraulic Hand Pump (without hose)	1
KL-0215-31	Hydraulic Hose, 1.8m, with Hose-Side Connector	1
KL-0215-322	Cylinder-Side Connector, 1/4" NPT	1
KL-0040-2520	Adaptor, 3/8" NPT to 1/4" NPT	1
KL-0040-2829	Pressure Gauge	1

**Technical Data:**

Weight:	7.5kg
Max. Pressure:	700bar



## KL-1070-1126 B Hexagonal Slogging Spanner, 26mm waf

**Suitable for use on brake calipers screws as found at the rear axle of, for example, DAF 105 and DAF 106.**

The **KL-1070-1126 B** hexagonal slogging spanner is designed to facilitate the loosening/tightening of the brake caliper screws found at the rear axle of e.g. DAF. The slogging spanner features a 3/4" square socket and is engraved with a torque conversion formula (necessary due to the extended lever), thus, allowing the user to tighten brake caliper screws - by means of a suitable 3/4" torque wrench - quickly and easily according to manufacturer specifications.

Thanks to the milled chamfer at one side of the spanner head, the tool can be used even in areas that are difficult to access.

**Technical Data:**

Length:	226mm
Size (waf):	26mm
Weight:	650g
Square socket:	3/4"



## KL-1070-1018 B

### External Hexalobular Slogging Spanner, E18

**Suitable for use on brake caliper screws (with Torx Profile) as found at the front and trailer axle of MAN TGL and TGM.**

The **KL-1070-1018 B** external hexalobular slogging spanner is designed to facilitate the loosening/tightening of the brake caliper screws found at the front and trailer axle of, e.g., MAN TGL and TGM. The slogging spanner features a 3/4" square socket and is engraved with a torque conversion formula (necessary due to the extended lever), thus, allowing the user to tighten brake caliper screws - by means of a suitable 3/4" torque wrench - quickly and easily according to manufacturer specifications. Using this tool, dismantling the track rod lever is not necessary.

**Technical Data:**

Length:	215mm
Size (waf):	E18
Weight:	500g
Square socket:	3/4"



## KL-1070-1020 B

### External Hexalobular Slogging Spanner, E20

**Suitable for use on brake caliper screws (with Torx Profile) as found at the front axle of MAN TGL and TGM.**

The **KL-1070-1020 A** external hexalobular slogging spanner is designed to facilitate the loosening/tightening of the brake caliper screws found at the front and trailer axle of, e.g., MAN TGL and TGM. The slogging spanner features a 3/4" square socket and is engraved with a torque conversion formula (necessary due to the extended lever), thus, allowing the user to tighten brake caliper screws - by means of a suitable 3/4" torque wrench - quickly and easily according to manufacturer specifications. Using this tool, dismantling the track rod lever is not necessary.

**Technical Data:**

Length:	216mm
Size (waf):	E20
Weight:	600g
Square socket:	3/4"



## KL-1070-1024 B

### External Hexalobular Slogging Spanner, E24

**Suitable for use on brake caliper screws (with Torx Profile) as found at the front and trailer axle of MAN TGA, TGS and TGX.**

The **KL-1070-1024 B** external hexalobular slogging spanner is designed to facilitate the loosening/tightening of the brake caliper screws found at the front and trailer axle of, e.g., MAN TGA, TGS and TGX. The slogging spanner features a 3/4" square socket and is engraved with a torque conversion formula (necessary due to the extended lever), thus, allowing the user to tighten brake caliper screws - by means of a suitable 3/4" torque wrench - quickly and easily according to manufacturer specifications. Using this tool, dismantling the track rod lever is not necessary.

**Technical Data:**

Length:	219mm
Size (waf):	E24
Weight:	610g
Square socket:	3/4"







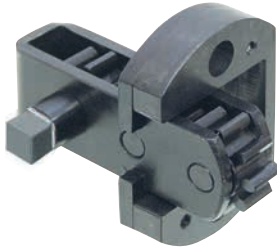
## KL-0114-8944

### Reaming Head, Ø 18x34mm

Universally suitable for ABS Sensor retaining bores with bore Ø 18mm.

**Technical Data:**

Drive:	1/4"
Ø:	18mm



## KL-0363-3

### Flywheel-Rotating Tool with 3 Sprockets

Suitable for Mercedes Actros engines; MAN lorries equipped with either a 5-, 6- or 8-cylinder engine.

This tool allows the user to accurately rotate the engine for valve setting or other maintenance and service work.

**Technical Data:**

Drive:	1/2"
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## KL-1030-20

### Engine-Supporting Device

Universally suitable.

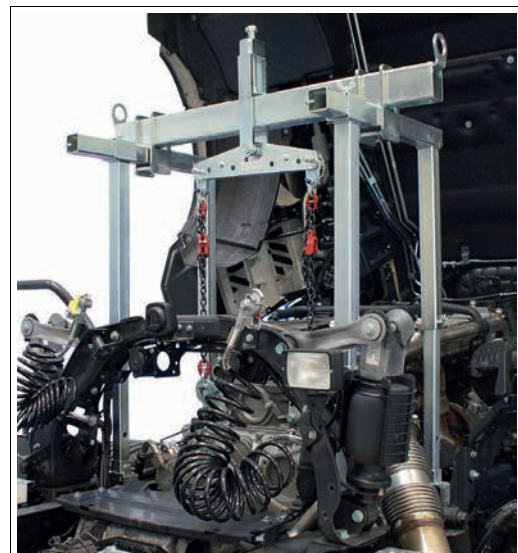
Particularly useful on Mercedes-Benz HGVs equipped with an engine from the HDEP, MDEG, 457, 500 or 900 Series. Engines installed, for example, in Mercedes-Benz Actros, Atego, Axor and Econic.

The engine-supporting device is designed for the unilateral raising/lowering of HGV engines, for example, when removing/installing the engine, when performing repair or maintenance work on the gear unit, or when changing a clutch.

Thanks to its special design allowing for infinite adjustment, the engine-supporting device can quickly and easily be adapted to suit the respective vehicle chassis.

The four support stands are all equipped with retaining claws to prevent the engine-supporting device from any lateral slipping off the vehicle chassis.

With the aid of the chains, which are adjustable in length, and the lifting spindle, the HGV engine can be suspended quickly and safely in the engine-supporting device at the respective suspension points.



## KL-1030-10 Clutch-Mounting Device

### Universal application.

The clutch mounting device is designed for the safe support and positioning of the clutch pressure plate during removal/installation of the clutch. It is used in conjunction with either a crane, pit lift or transmission jack.

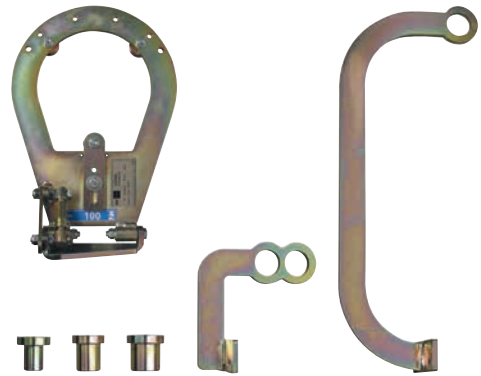
Thanks to the adjustable retaining rollers of the basic unit, virtually any common HGV clutch pressure plate can be safely held in the device.

The pivoting retaining rollers and the adjustable inclination angle of  $\pm 10^\circ$  allow for the accurate alignment of the clutch pressure plate relative to the flywheel.

The clutch mounting device comes with a mounting bracket, a transport handle and three retaining pins ( $\varnothing 35, 45, 55\text{mm}$ ) which enable it to be used with either a crane, pit lift or transmission jack as needed.

### Note:

When used in conjunction with the various retaining adaptors (accessories), the **KL-1030-10** clutch-mounting device additionally covers the removal/installation of flywheels and die-cast iron clutch pressure plates.



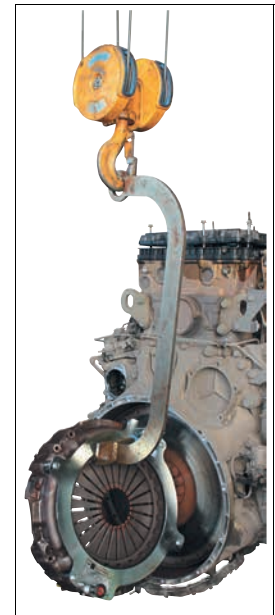
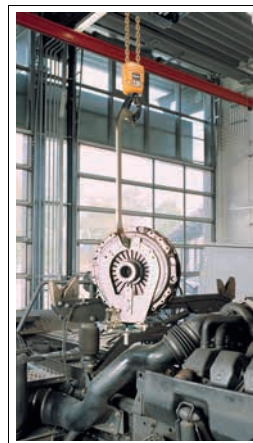
### Technical Data:

Height of basic unit with retaining pin:	540mm
Retaining pin $\varnothing$ :	35, 45, 55mm
Adjustable inclination angle:	$\pm 10^\circ$
Max. load capacity:	100kg
Max. load capacity (in conjunction with KL-1030-106 [accessory]):	80kg

### Scope of Delivery:

#### KL-1030-10 Clutch-Mounting Device

Part No.	Description	Qty
KL-1030-100	Base Tool	1
KL-1030-1001	Retaining Pin (35mm)	1
KL-1030-1002	Retaining Pin (45mm)	1
KL-1030-1003	Retaining Pin (55mm)	1
KL-1030-1004	Transport Handle	1
KL-1030-1005	Mounting Bracket	1



## KL-1030-102 Adaptor for Flywheel

Suitable for all common types of HGV flywheels having a pitch circle  $\varnothing$  of 375, 410 or 450mm, as well as for clutch pressure plates.

The ideal tool for, e.g., Mercedes-Benz Actros MP4 (OM 470, 471, 472 and 473).

This adaptor is needed to retain HGV flywheels and clutch pressure plates safely and securely in the **KL-1030-10** clutch-mounting device.

### Technical Data:

Max. load capacity:	100kg
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## KL-0069-67 K Clutch Aligner Kit

(Universal)

Intended for use on Vans and HGV equipped with a single- or double-disc clutch.

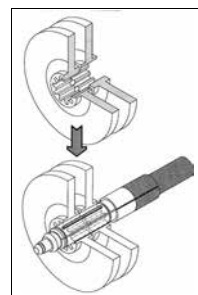
The clutch aligner kit is indispensable for the quick and easy alignment of the clutch disc/clutch discs.

The centring takes place via the pilot bearing in the crankshaft.

### Scope of Delivery:

#### KL-0069-67 K Clutch Aligner Kit

Part No.	Description	Qty
KL-0069-6	Clutch Aligner (HGV)	1
KL-0069-7	Clutch Aligner (Vans)	1
KL-0069-6090	Plastic Storage Case	1



Part No.	Description	Chapter	Part No.	Description	Chapter
224021	Ratchet Pipe Cutter niro Code: 1600885	6.9-03	KL-0039-1415	Centring Ring, Ø 80mm	3.1-14
224211	Replacement Cutting Wheel	6.9-03	KL-0039-160	Pressure/Support Sleeve Set, Ø 30-90mm, short, 45mm	2-04, 4-06
231000	Miniature Pipe Cutter MINI-QUICK - Code: 4504560	5-12	KL-0039-160 E	Pressure/Support Sleeve Set, Ø 30-90 mm, short, 45 mm	2-04, 4-06
234001	Dual Beading Tool - Code: 4505530	5-12	KL-0039-160 K	Pressure/Support Sleeve Set, Ø 30-90mm, short, 45mm	2-04, 4-06
4549-05	Torque Wrench TORCOFIX K	6.8-08	KL-0039-1601	Pressure/Support Sleeve Set (Short Design)	2-03, 4-04
GEDORE 5011	Ratchet Wrench 1/2" Code: 1479229	1-10	KL-0039-170	Pressure/Support Sleeve Set, Ø 30-90mm, long, 115mm	2-05, 4-06
KL-0005	Spring Compressor	1-32	KL-0039-170 E	Pressure/Support Sleeve Set, Ø 30-90 mm, long, 115mm	2-05, 4-06
KL-0006	Spring Compressor, Ford, Mercedes	1-33	KL-0039-170 K	Pressure/Support Sleeve Set, Ø 30-90mm, long, 115mm	2-05, 4-06
KL-0006-2	Spring Compressor	1-32	KL-0039-1701	Pressure/Support Sleeve Set (Long Design)	2-03, 4-04
KL-0015	Spring Compressor	1-22	KL-0039-1910	Pull Spindle, M10x1.25, with Nut	4-13
KL-0021	Spring Compressor, Mercedes	1-29	KL-0039-1912	Pull Spindle, M12, with Nut	4-14
KL-0021 E	Spring Compressor, in a Foam Insert	1-29	KL-0039-1914	Pull Spindle, M14, with Nut	4-14
KL-0021 K	Spring Compressor, in a Storage Case	1-29	KL-0039-1916	Pull Spindle, M16, with Nut	4-15
KL-0021-2 K	Spring Compressor, in a Storage Case for MODULO	1-29	KL-0039-1920	Pull Spindle, M20, with Clamping Nut	3.1-13, 4-15
KL-0025-1	Spring Compressor, with Pressure Plates in Size 1 + 2	1-28	KL-0039-1930	Pressure Spindle with O-Ring, M20x350	3.1-13, 3.4-07, 4-15
KL-0025-1 K	Spring Compressor, with Pressure Plates in Size 1 + 2	1-28	KL-0039-1931	Pressure Spindle with O-Ring, M20x405	4-15
KL-0025-11	Pair of Pressure Plates, Size 1	1-30	KL-0039-1935	Thrust Piece	3.4-07, 4-25
KL-0025-12	Pair of Pressure Plates, Size 2	1-30	KL-0039-2010	Pull Spindle, M10x1.25, with Nuts	4-07
KL-0025-13	Pair of Pressure Plates, Size 3	1-31	KL-0039-2012	Pull Spindle, M12, with Nuts	4-07
KL-0025-14	Pair of Pressure Plates, Size 4	1-31	KL-0039-2014	Pull Spindle, M14, with Nuts	4-08
KL-0025-15	Pair of Pressure Plates, Size 5	1-31	KL-0039-2016	Pull Spindle, M16, with Nuts	4-08
KL-0025-16	Pair of Pressure Plates, Size 0A	1-31	KL-0039-2018	Pull Spindle, M18, with Nuts	4-09
KL-0025-17	Pair of Pressure Plates, M-Class	1-31	KL-0039-2020-1	Pull Spindle, M20	4-09
KL-0025-2	Spring Compressor (Short Design) with Pressure Plates	1-30	KL-0039-2030	Pull Spindle, M20	3.1-10
KL-0029-10	Coil Spring Pre-Compressor, VW-Audi	1-02, 1-04	KL-0039-210	Wheel Bearing Tool Set with Hydr. Cyl., MB W639 Rear Axle	3.1-09
KL-0029-10 K	Coil Spring Pre-Compressor in a Plastic Storage Case	1-02	KL-0039-211	Wheel Bearing Tool Set without Hydr. Cyl., MB W639 Rear Axle	3.1-09
KL-0029-11	Coil Spring Pre-Compressor Kit	1-04	KL-0039-2110	Pull Spindle, M10, with Quick-Action Clamping Nut	4-14
KL-0029-11 E	Coil Spring Pre-Compressor Kit, in a Foam Insert	1-04	KL-0039-2112	Pull Spindle, M12, with Quick-Action Clamping Nut	4-14
KL-0029-11 K	Coil Spring Pre-Compressor Kit, in a Storage Case	1-04	KL-0039-2114	Pull Spindle, M14, with Quick-Action Clamping Nut	4-14
KL-0029-1303	Shock Absorber Holding-Down Clamp	1-05	KL-0039-2116	Pull Spindle, M16, with Quick-Action Clamping Nut	4-15
KL-0029-160	Upgrade Kit, Size 6	1-05	KL-0039-2120	Pull Spindle, M20, with Quick-Action Clamping Nut	3.1-13, 4-15
KL-0029-170	Upgrade Kit, Size 7	1-05	KL-0039-213	Sleeve Set, Mercedes W639 Rear Axle	3.1-09
KL-0039-0100	Wheel Bearing Tool Set, without Hydr. Cylinder	3.1-06	KL-0039-22	Set of Quick-Action Clamping Nuts (4-pc.)	4-09
KL-0039-0101	Pressure-/Centring Ring Set (16-Piece Set)	3.1-05	KL-0039-2210	Pull Spindle, M10, with Shoulder Nut and Quick-Action Clamping Nut	4-07
KL-0039-0110	Wheel Bearing Tool Set, with Mechanical Drive	3.1-05	KL-0039-2212	Pull Spindle, M12, with Shoulder Nut and Quick-Action Clamping Nut	4-08
KL-0039-0110 K	Wheel Bearing Tool Set (Mechanical Drive)	3.1-05	KL-0039-2214	Pull Spindle, M14, with Shoulder Nut and Quick-Action Clamping Nut	4-08
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	3.1-11, 4-12	KL-0039-2216	Pull Spindle, M16, with Shoulder Nut and Quick-Action Clamping Nut	4-08
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	3.1-12, 4-12	KL-0039-2220	Pull Spindle, M20, with Shoulder Nut and Quick-Action Clamping Nut	4-09
KL-0039-1004	Retaining Adaptor with O-Rings, for Pressure Spindle (Ø 18mm)	4-13, 4-50	KL-0039-23	Set of Quick-Action Clamping Nuts (5-pc.)	4-09
KL-0039-1005	Adaptor, Ø 35mm	3.1-12, 4-13	KL-0039-413 K	Pulling Device for Silentbloc (Mechanical Drive)	4-05
KL-0039-101	Wheel Bearing Tool Drive Set, without Hydraulic Cylinder	3.1-06	KL-0039-710	Pressing Device with Hydraulic Cylinder	2-13, 4-52
KL-0039-1011	Retaining Adaptor for Mechanical Spindle	3.1-11, 4-07	KL-0039-7100	Pressing Device without Hydraulic Cylinder	2-13, 4-52
KL-0039-1105	Adaptor with O-Ring, 2¼"-14 UNS to Ø 30mm	4-22	KL-0039-712	Sleeve Set, Renault Master II/Vauxhall/Opel Movano I	2-13, 4-52
KL-0039-1106	Adaptor with O-Ring, M42x2 to Ø 30mm	4-22	KL-0039-722	Sleeve Set, Upper Suspension Ball Joint	2-13, 4-52
KL-0039-1110	Press Frame (Short Design)	4-21	KL-0039-732	Sleeve Set, Lower Suspension Ball Joint	2-13, 4-52
KL-0039-113	Frame Bars (Pair), 350mm long, with Cheese Head Screws	4-21	KL-0039-750	Pressing Device with Hydr. Cyl., Mercedes Sprinter/VW LT (2D)	2-11, 4-41
KL-0039-1140	Press Frame (Lightweight, Short Design)	4-20	KL-0039-7500	Pressing Device without Hydr. Cyl., Mercedes Sprinter/VW LT (2D)	2-11, 4-41
KL-0039-115	Frame Bars (Pair), 350mm long, with Hex Nuts	4-20	KL-0039-7503	Sleeve Set, Mercedes Sprinter/VW LT (2D)	2-11, 4-41
KL-0039-1160	Press Frame Kit, without Hydraulic Cylinder	4-20	KL-0039-752	Pressing Device with Hydr.Cyl., Mercedes 190 Series	4-40
KL-0039-1160 E	Press Frame Kit, without Hydraulic Cylinder, in a Foam Insert	4-20	KL-0039-7520	Pressing Device without Hydr. Cyl., MB 190 Series (W201), W124, W129	4-40
KL-0039-1160 K	Press Frame Kit, without Hydraulic Cylinder, in a Plastic Storage Case	4-20	KL-0039-7523	Sleeve Set, Mercedes 190 Series (W201), W124, W129	2-12, 4-40
KL-0039-1161 E	Press Frame Kit, without Drive, in a Foam Insert	4-20	KL-0039-753	Pressing Device with Hydr. Cyl., MB Sprinter	2-12, 4-42
KL-0039-120	Set of Pressure Rings, Ø 54-90mm	3.1-15	KL-0039-7530	Pressing Device without Hydr. Cyl., MB Sprinter	2-12, 4-42
KL-0039-130	Set of Centring Rings, Ø 25-60mm	3.1-15	KL-0039-7533	Sleeve Set, Mercedes Sprinter (W906)/VW Crafter (2E/2F)	2-12, 4-42
KL-0039-140	Housing Set	3.1-05	KL-0039-7534	Support Sleeve with Clamping Washer, Mercedes Sprinter	2-12
KL-0039-1401	Bearing Cover	3.1-13	KL-0039-7535	Upgrade Kit for KL-0039-750, Mercedes Sprinter	2-11, 4-41
KL-0039-1402	Housing	3.1-13	KL-0039-762	Pressing Device with Hydraulic Cylinder, BMW E36	2-07, 4-34
KL-0039-1403	Housing	3.1-13	KL-0039-7620	Pressing Device without Hydraulic Cylinder, BMW E36	2-07, 4-34
KL-0039-1413	Centring Ring, Ø 70mm	3.1-14	KL-0039-7623	Sleeve Set, BMW E36	2-07, 4-34
KL-0039-1414	Centring Ring, Ø 75mm	3.1-14			

Part No.	Description	Chapter	Part No.	Description	Chapter
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KL-0039-801 A	Mechanical Drive Kit, 390mm	3.1-10, 3.3-03	KL-0041-380 E	Wheel Hub Puller, without Hydraulic Cylinder, in a Foam Insert	3.3-04
KL-0039-801 B	Mechanical Drive Kit for Wheel Hub Tools	3.3-03	KL-0041-380 K	Wheel Hub Puller, without Hydr. Cyl., in a Plastic Storage Case	3.3-04
KL-0039-802	Hydraulic Drive Kit without Hydraulic Cylinder	3.1-06, 3.1-10	KL-0041-40 A	Wheel Bearing Tool Kit with Hydraulic Cylinder	3.3-06
KL-0039-803 A	Hydraulic Drive Kit, with Pull Spindle, without Hydraulic Cylinder	4-13, 4-21	KL-0041-400 A	Wheel Bearing Tool Kit without Hydraulic Cylinder	3.3-06
KL-0039-803 B	Hydraulic Drive Kit, with Pull Spindle, without Hydr. Cylinder	4-13, 4-21	KL-0041-401 A	Upgrade Kit, Mitsubishi/Smart	3.3-06
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KL-0039-807 A	Support Ring Set	3.1-14	KL-0041-420	Wheel Bearing Tool without Drive, (Bearing Ø 62mm)	3.3-04
KL-0039-809 A	Hydraulic Drive Kit, with Press Frame, without Hydr. Cylinder	4-21	KL-0041-421	Upgrade Kit, Audi A2/VW Lupo, (bearing Ø 62mm)	3.3-04
KL-0039-809 B	Hydraulic Drive Kit, with Press Frame, without Hydr. Cylinder	4-21	KL-0041-43 B	Wheel Bearing Tool with Hydraulic Cylinder, Polo/Fabia, Ø 66mm	3.3-05
KL-0039-810 A	Wheel Bearing Tool Set (Without Drive), BMW	3.1-08	KL-0041-430 B	Wheel Bearing Tool without Hydraulic Cylinder (bearing Ø 66mm)	3.3-05
KL-0039-811	Wheel Bearing Tool Set (Without Drive), Mercedes	3.1-09	KL-0041-431 B	Upgrade Kit, VW Polo/Škoda Fabia, Bearing Ø 66mm	3.3-05
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KL-0039-850	Wheel Bearing Tool Set without Hydraulic Cylinder, BMW	3.1-08	KL-0041-441 C	Upgrade Kit, Polo, Bearing Ø 72mm	3.3-05
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KL-0039-931 H	Press Tool Set (Short Design), without Drive	2-03, 4-04	KL-0041-450 B	Wheel Bearing Tool without Hydr. Cyl., VW-T5 (Bearing Ø 85mm)	3.3-06
KL-0040-170 A	Hydraulic Cylinder, 17t (short design), with Shoulder Nut M16x1.5	6.4-05	KL-0041-451 B	Upgrade Kit, VW T5 (Bearing Ø 85mm)	3.3-06
KL-0040-175 B	Hydraulic Drive Tool Kit with Safety Belt	6.4-06	KL-0041-46 D	Wheel Bearing Tool with Hydraulic Cylinder, Volvo/ Ford/Mazda	3.3-09
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**Inhalt**

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- > Bits 1/4": Innensechskant 4 5 6 mm, Schlitz 5,5 mm, PH 1 2, PZ 1 2, TORX® T15 T20 T25 T27 T30, Bit-Knarre 1/4" mit Umschaltung MINI, Bit-Fixierungs-Adapter 1/4", Adapter 1/4" x 1/4"

**Code 2978091**

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Swivel Grip Oil Filter Wrench, Ø 73-82mm	KL-0122-802	6.8-08	Torque-Limiting Socket, (waf) 19 mm/110Nm (light blue)	KL-0100-15	3.6-02
Swivel Grip Oil Filter Wrench, Ø 89-98mm	KL-0122-803	6.8-08	Torque-Limiting Socket, (waf) 19mm/100Nm (lime)	KL-0100-22	3.6-02
Swivel Head	KL-4007-3112	10-18	Torque-Limiting Socket, (waf) 19mm/135Nm (grey)	KL-0100-16	3.6-02
Swivel Head Breaker Bar, 1/2", Length 620mm	KL-4007-311	10-18	Torque-Limiting Socket, (waf) 19mm/150Nm (lilac)	KL-0100-23	3.6-02
Swivel Head Breaker Bar, 3/4", 980mm	KL-4007-411	3.2-06, 10-18	Torque-Limiting Socket, (waf) 19mm/90Nm (yellow)	KL-0100-14	3.6-02
TDC Position Tool Kit	KL-1681-11 K	6.6-03, 6.6-68	Torque-Limiting Socket, (waf) 21mm/110Nm (light brown)	KL-0100-18	3.6-02
Telescopic Magnetic Lifter (extra strong magnet power)	KL-0126-206	10-02	Torque-Limiting Socket, (waf) 21mm/80Nm (black)	KL-0100-17	3.6-02
Telescopic Magnetic Lifter (magnet power 3.6 kg)	KL-0126-212	10-03	Torque-Limiting Socket, (waf) 21mm/95Nm (pink)	KL-0100-19	3.6-02
Telescopic Mirror	KL-0126-209	10-03	Torque-Limiting Socket, (waf) 22mm/100Nm (orange)	KL-0100-25	3.6-02
Telescopic Mirror Ø 32 mm, 485 mm long	KL-0126-260	10-03	Torque-Limiting Socket, (waf) 22mm/80Nm (dark green)	KL-0100-24	3.6-02
Telescopic Mirror Ø 50 mm, 300 mm long	KL-0126-261	10-03	Torque-Limiting Sockets	KL-0100-Series	3.6-02
Telescopic Safety Spring Compressor	KL-9002	1-13	Torx® Screwdriver with T-Handle, T30x350mm	KL-4306-6330	9-08
Telescopic Safety Spring Compressor	KL-9002 SP	1-14	Torx® Screwdriver, T8 x 200mm	KL-4305-6208	9-16
Telescopic Safety Spring Compressor, in a Foam Insert	KL-9002 SP E	1-14	Torx® Universal Joint Socket T45	KL-0284-14	6.6-17
Telescopic Safety Spring Compressor, in a Storage Case	KL-9002 SP K	1-14	Track Rod Adjustment Tool	KL-0169-1 A	2-27
Tension Pulley Spanner, Size (waf) 16mm	KL-0284-92	6.6-17, 6.7-16	Track Rod Eccentric Socket, Ø 33-42mm	KL-0167-20	2-27
Tensioner Tool	KL-0284-16	6.7-15	Trim Pry	KL-0190-10	9-09
			Tube Handle	KL-0169-101	2-27

Description	Part No.	Chapter	Description	Part No.	Chapter
Twin-/Triple-Leg Puller Set, With Quick-Release Lever	KL-0152-90 K	8-06	Upgrade Kit, Audi A2/VW Lupo, (bearing Ø 62mm)	KL-0041-421	3.3-04
Twin-/Triple-Leg Puller Set, With Quick-Release Lever	KL-0152-91 K	8-06	Upgrade Kit, Audi A4/A5	KL-0255-12	1-38
Twin-Arm Battery Terminal Puller	KL-0157-1	9-13	Upgrade Kit, Audi A6	KL-0255-11	1-38
Twin-Arm Battery Terminal Puller	KL-0157-2	9-13	Upgrade Kit, BMW	KL-0583-103 A	6.4-19
Twin-Leg Puller (Universal)	KL-0150-0	8-07	Upgrade Kit, Ford Transit Rear Axle	KL-0040-861	3.2-07, 5-16
Twin-Leg Puller (Universal)	KL-0150-1	8-07	Upgrade Kit, Ford/Volvo	KL-0610-151 A	4-50
Twin-Leg Puller (Universal)	KL-0150-1,5	8-07	Upgrade Kit, Land Rover Freelander 2.0 TD4	KL-0583-104	6.4-19
Twin-Leg Puller (Universal)	KL-0150-2	8-07	Upgrade Kit, Mercedes Sprinter/VW Crafter with All-Wheel Drive	KL-0041-504	3.3-08
Twin-Leg Puller (Universal)	KL-0150-2,5	8-07	Upgrade Kit, Mercedes Vito/Viano All-Wheel Drive	KL-0041-505	3.3-08
Twin-Leg Puller (Universal)	KL-0150-3	8-07	Upgrade Kit, Mitsubishi/Smart	KL-0041-401 A	3.3-06
Universal Cooling System Pressure Tester	KL-0124-65 K	6.1-01	Upgrade Kit, Polo, Bearing Ø 72mm	KL-0041-441 C	3.3-05
Universal Line Clamp Set	KL-0121-61 K	5-13, 6.2-05	Upgrade Kit, Size 6	KL-0029-160	1-05
Universal Locking Pin Set for Engine Shafts (in a storage case)	KL-0180-100 KA	6.6-03	Upgrade Kit, Size 7	KL-0029-170	1-05
Universal Mounting Device for Timing Chain	KL-0340-9	6.6-41	Upgrade Kit, VW Polo/Škoda Fabia, Bearing Ø 66mm	KL-0041-431 B	3.3-05
Universal Valve Spring Compressor	KL-0125-1 A	6.3-01	Upgrade Pressure Drift Set	KL-0250-402	2-14
Universal Wrench for Inner Track Rod Joint, Ø 30-43mm	KL-0167-15 A	2-28	Upgrade Sleeve Set, Ford Focus/Mazda 3	KL-0610-133	4-51
Upgrade Kit	KL-0183-550	6.6-99	U-Type Hook, with Joint	KL-0049-360	2-26
Upgrade Kit (4-hole pitch) for KL-0500-40 K and KL-0500-45 K	KL-0500-4014	7-04, 7-06	Valve Collet Assembly Tool Set	KL-0125-60	6.3-02
Upgrade Kit (CDI) for KL-0283-70 K (to form KL-0369-30 K), MB	KL-0369-30-3 K	6.5-08	Valve Depressor, VW-Audi	KL-0280-3	6.3-04
Upgrade Kit (CDI) for KL-0369-30 K	KL-0369-32-1 K	6.5-10	Valve Lapper Tool, Ø 16/21mm	KL-0125-70	6.3-05
Upgrade Kit (CDI) for KL-0369-30 K/KL-0369-32 K	KL-0369-33-1 K	6.5-12	Valve Lapper Tool, Ø 29/35mm	KL-0125-71	6.3-05
Upgrade Kit (CDI) for KL-0369-32 K (to form KL-0369-30 K), MB	KL-0369-30-1 K	6.5-08	Valve Spring Compressor	KL-0281-2	6.3-04
Upgrade Kit (CDI) for KL-0369-33 K (to form KL-0369-30 K), MB	KL-0369-30-2 K	6.5-08	Valve Spring Compressor, Peugeot	KL-1381-2	6.3-04
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Upgrade Kit (Drive Shaft Removal)	KL-0174-911	3.1-08	Vernier Calliper for Brake Disc	KL-0140-33	5-15, 10-07
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Upgrade Kit (PSA HDI) for KL-0186-14 K	KL-0186-150 A	6.4-04, 6.4-29	Vernier Calliper for HGV Brake Discs	KL-0140-38	5-15, 10-07
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Upgrade Kit for KL-0186-14 K	KL-0186-1610 B	6.4-05, 6.4-44	Water Pump Sprocket Puller	KL-0284-821	6.1-05
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Upgrade Kit for Wheel Hub Bearing Unit Installation	KL-0041-461 D	3.3-09	Wheel Bearing Tool Set (Without Drive), Mercedes	KL-0039-811	3.1-09
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**100<sup>TH</sup>**  
ANNIVERSARY  
1919 - 2019

**GEDORE**

**ENTIRE RANGE**



**2019**



# Putting one's whole heart into it.

GEDORE red stands for high-grade professional tools achieved from concentration on essentials and intelligent solutions.

As the GEDORE brand product line, we place the maximum possible demands on our work. The extensive GEDORE red range goes down well thanks to its functionality, convenience-in-use and longevity. The stringent product standards underpinned by GEDORE's quality undertaking provide that common element running through our entire range of tools.

Backed by experience going back almost 100 years as well as skill, passion and customer proximity, we devise tools of high serviceability for safe, precision-like working.

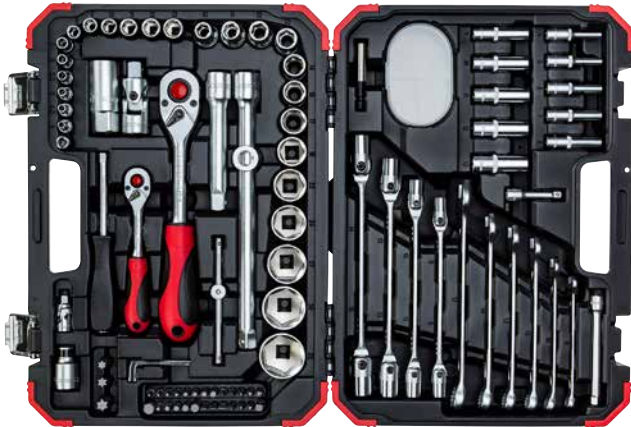
We understand the world of tools, remain authentic and put our hearts into the work.

Whether on a personal level or in business, we always speak our customers' language. Intelligent solutions that we devise are there to assist you in your projects.

Our perfected products and constant striving for improvement illustrate just how we live and love our trade down to the last detail. This makes GEDORE the partner for you in the matter of highly efficient and dependable tools.



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**TORQUE WRENCHES**



**> 090**  
**SOCKET SETS**



**> 172**  
**1000 V**



**> 052**  
**RATCHET SPANNERS**



**> 028**  
**WORKSHOP  
EQUIPMENT**

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1



## TOOL HERO STORY

# FEEL THE POWER OF THE ENGINE DIRECTLY

It all began with a Yamaha R6. It was Flo's first motor bike. Since then over a 12-year time span he has turned his passion into gainful employment and is now the proud owner of an entire shop full of bikes.



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4



1. It keeps to its promise: the practical R19102000 magnetic tray, 2. Flo working on a Ducati 899 Panigale. 3. Easy tyre changing with a R68900200 torque wrench. 4. Close-up shot of the R68003026 screwdriver bit socket set. 5. Flo with his transformer made of used scooter and car parts.



In his FLO RIDER MOTOLOFT in Solingen, Florian Schmand - aka Flo - services, repairs and brokers new and used bikes of all the usual makes and brands.

Even at school, Flos' interest was very much on two-wheelers. He bought himself a moped when 15. Two years later he switched to a 125 scooter. Flo got his motor bike license and his first Yamaha R6 when he was 18.

He decided to set up his own business during the automobile crisis in 2019. "As I couldn't get a bank loan, I began to build up a small business on the side when I was an industrial fitter", he said, looking back. In his garage in front of the house, Flo got his first bikes into shape and sold them online. Business went better than expected. "I was forced to rent a larger garage but I still could not manage all the work", Flo continued. He then decided to give up his job and in 2013 fulfilled his dream of owning his own shop. His modern MOTOLOFT covers two storeys including showroom, gallery and workshop. What really catch the eye are Flo's huge transformers made of used scooter and car parts. He always inspects his machines visually and from the technical angle before they are sold. "I'm very finicky there". I have never forgotten my mum's saying »A tidy house, a tidy mind«, says Flo with a grin. This is something immediately evident in his work-

shop. Well-sorted, GEDORE red tools such as screwdrivers, pliers and spanners hang from his perforated board above the workbench. Flo's favourite: the GEDORE red WINGMAN. "To be truthful, the one thing you really need in a workshop is a well stocked tool trolley. If everything is well arranged, you'll find what you're looking for that much quicker.

Although he does not keep his bikes very long, his favourite is Ducati and particularly the Ducati Panigale. It is not only the technical and design combination that make the machine so unique for him. "It's an indescribable feeling to feel the power of the engine so directly", Flo enthusiastically explains. A reason, in fact, as to why he himself wants to have this machine in 2018. "Unfortunately I have hardly had any time over the past two years to ride the machine. That is what I intend to change this year".



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1. The R09100280 combination spanner ensures that every screw is firmly tight. 2. Tool set T-handle R49005037 plus ratchet tool for an optimum power transfer. 3. 9-piece R36675000 hexagon socket key set with ball end. 4. Sanna and Hannes working outdoors. 5. Happy Family: Hannes, Sanna and Labrador bitch Fini.



4



# READY, JET, GO!

Work where others go on holiday – this is the dream that Sanna and Hannes have fulfilled. Their wakeboard school - KAHAWAI Watersports - with jet ski hire and wake shop is sited on a peninsula near Roermond – just 10 minutes by car on the other side of the Dutch border.

**T**heir school is in the Marina Oolderhuske recreational park and has its own mooring point which also serves as a place for repairs /servicing. From here, German guests in the main start their water sports adventure.

This year Sanna gave up her teaching job and together with Labrador Fini moved away from Bergisch Gladbach to set up a new life with Hannes 100 kms to the west. Both Sanna and Hannes are German born and grew up separately with water sports. It was a passion that brought them together. "At the time I was here with friends for wake boarding and Hannes was the coach. The spark between us ignited straight away", she recalls. Three years later and after a lot of here-and-there came the wedding and Sanna's decision to change the junior school for a wake school. Since April - and together with Hannes - she has been instructing wakeboarding at the boat and 2-mast installation, wakesurfing (like wakeboarding but without the line) and waterskiing.

Also on offer: tubing, banana boat, jet-ski and speed boat runs – fun sports booked, in particular, for company events and stag nights. "The funniest tales come about here. Just recently one of the bachelors was pulled along naked on his wakeboard", Sanna relates and laughs. Along



with hiring out equipment and organizing events, both of them service and maintain boat and jet ski – something done best of all outdoors. Whether it is a matter of removing the oil filter - needs to be done every 100 operating hours - or repairs to the boat propeller due to contact with the lake bed, "we need to have full confidence in our tools" emphasizes Hannes. His best-loved one is the GEDORE red ratchet box. "Just right as far as the weight goes and pleasant to handle", is his enthusiastic response.

Hannes looks upon screw/bolting work done under pressure i.e. between client appointments - as an effective means to an end. He feels quite differently about his favourite hobby i.e. pottering around on his mountain bike and quad. "That's where I can really unwind", he states. On clocking off, he likes driving off with Sanna and Fini and to taking turns in being pulled along by the boat.

His plans include opening a wake park with some 20 obstacles, a private beach, floating event hall and restaurant in De Weerd which borders their site.

## TOOL HERO STORY

# BUT ONLY WITH A STAR, PLEASE

Bartosch aka Toschi is married, a father and a passionate care dealer. His dressing style: pleasantly "subdued" - chino trousers, TC-shirt, jumper and sneakers.



**T**he first thing that meets your eye on going into the Bartosch Markowski hall are the lined-up "stars" - of today's and yesterday's cars. Slightly hidden at the back are a hydraulic platform, tools and the GEDORE red MECHANIC workshop trolley.

In his Solingen »Fahrkultur« car dealership just 3 min. away from Tine, is wife, daughter Leni and Labrador Emma, Toschi sells one-year old cars, fairly new used cars as well as classic and vintage models – preferably sporting that star, of course. His passion for Mercedes Benz came about as a 19 year-old when training at Daimler. He worked for 10 years in the most varied of fields – from the spare parts store through to actual car sales. He repaired dated Vespas in his free time. "In selling Vespas I got to know a lot of great people. However, I made no money from the business", relates Toschi.

Since then six summers have gone by, and a lot has happened. Toschi has fulfilled his dream of his own business and one with over 400m<sup>2</sup> of floor space. "I've enough room here to both present the gems I have and to pursue my favourite hobby", he says. What he means here is doing tool maintenance work on his vintage cars - and particularly on his red Bordeaux Mercedes on which he preferably uses his GEDORE red tools. Whether it is a matter of changing oil,

tyres and brake pads or replacing spark plugs – the GEDORE red ratchets, torque wrenches and the impact socket set are always at hand. "For me working with tools is a pleasant contrast to the daily sales talks and recalls my time at Daimler", continues Toschi.

Talking of Daimler: he loves to recount the story of his first convertible - an SLK - which he bought with his savings during his training time. "I was determined to get the car. This meant me having to drive over 700 kms right down into Bavaria", Toschi recalls. He had everything with him - number plates and the money. Unfortunately he could not hide his instant love for the car from the car dealer and had to pay the full price as displayed.

"A beginner's mistake! Would not happen to me today", says he with a grin.



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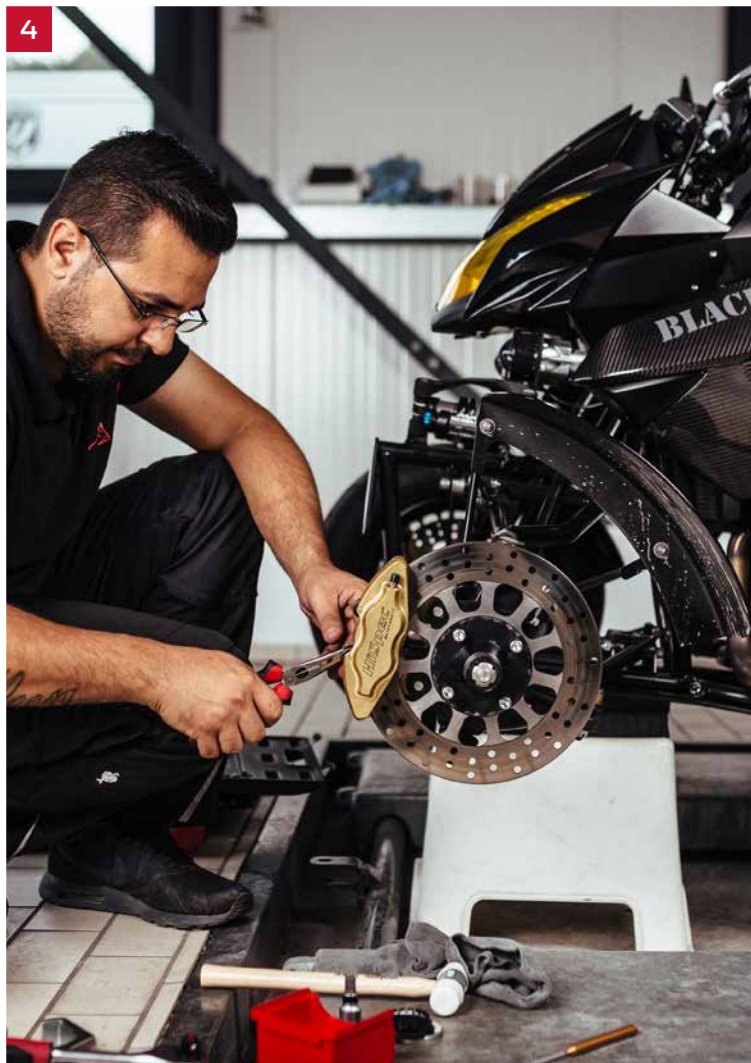
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1. Bartosch aka. Toschi is a passionate car dealer.  
2. What Toschi is wild about: his Vespa and the R20400006 MECHANIC workshop trolley. 3. The lined-up cars all sporting "stars" of today's and yesterday's models. 4. For Toschi any tool work done is a pleasant escape from the sales talks. 5. The 100-piece 1/2"-1/4" combined socket set R46003100 is full to the brim with useful aids. 6. You've always got just what you need with the R38002012 screwdriver set.



6

1. Straight tipped telephone pliers R28512200 for flat and round material. 2. The 1/4" R40000027 reversible ratchet proves that small tools can do great things. 3. The R38910000 ratchet screwdriver being used on the steering wheel. 4. Aram and his quad – made from a Kawasaki Z1000. 5. The names of his two children adorn Aram's lower arm.



## TOOL HERO STORY

# LOWER, WIDER, FASTER!

When Aram pulls up in his black-and-white check-patterned Audi R8, you can't help but stare. Written in curved letters, clearly visible on the car: "Drive and Style", which is the name of his tuning workshop in Dortmund.



**T**he qualified bodywork specialist has fulfilled his dream of his own workshop, office and pizzeria on this 25,000 m<sup>2</sup> site.

Born in Iran, Aram came to Germany as a refugee at the age of 4. He is also strongly drawn to the USA, where his father emigrated in 1994. He met his wife Jessica in 1998, while he was still training. When their daughter Aileen was born in 2006 they decided to settle in Dortmund. Two years later, Aram decided to set up his own business: the birth, in fact, of "Drive and Style". After starting out in a small hall, Aram opened his current workshop in 2014.

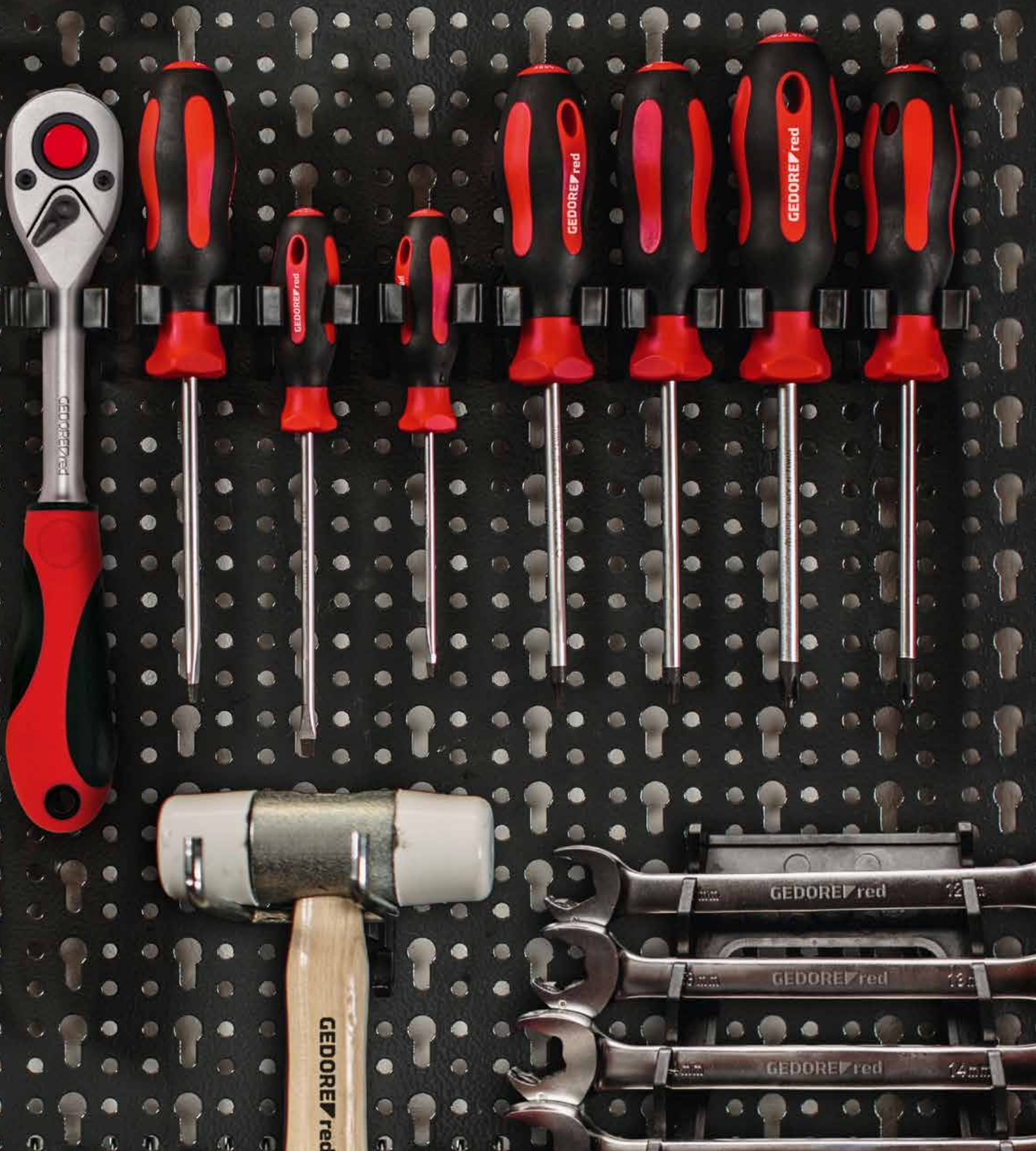
"Drive and Style" specialises in tuning top-end cars. Performance upgrades, changes in appearance using body kits, lowering, exhaust systems, rims, special painting, foliage and sound tuning are especially popular. "Lower, wider, faster – that never loses its appeal and Aram knows that. His wide-range GEDORE red assortment – clearly stored in the MECHANIC workshop trolley – ensures that all work proceeds smoothly. The GEDORE red ratchet box is what is most often used. "I use it to fit everything in the car and especially for the engine", continues Aram. His best-loved tool is the GEDORE red combination ratchet spanner. Once set up, you can easily work through everything with it", he comments enthusiastically.

Tuning trends come and go. Aram has happy memories of his VW Golf IV with wing doors: "That was twelve years ago – I was as proud as Punch. Today I would not dare to be seen in it on the roads", he recounts and laughs. His baby: a quad, made in co-operation with the EXEET company from a Kawasaki Z1000 – the Black Bull Drive and Style Edition. "I have always dreamt of driving something that no-one else has", he says with pride. And the result is something very special indeed: 150 hp, 220 km/h, the quarter of a mile (402 m) in 10.76 sec.

And his hard work pays off: today, he numbers footballers such as Marco Reus, Roman Neustädter and Julian Draxler among his clients. And one day, when money is no longer important, he'd like to launch his own vehicle on the market: "an Audi R8 and Lamborghini mix would be my dream."

# TOOL ASSORTMENTS

014 - 023

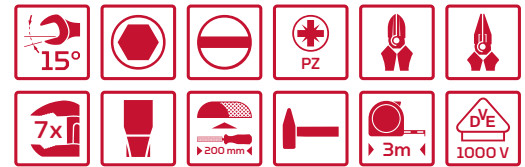


# R2100072

## UNIVERSAL SET BASIC

72 pieces

- > **Multifunction saw:** Rotating saw blade and frame, hand protector, dual-material handle, delivered with HSS bi-metal saw blade (24 tpi)
- > **Spirit level:** Smooth aluminium rectangular profile, two acrylic vials, measurement accuracy: +/- 0.5 mm/m, powder-coated, impact-resistant end cap
- > **Double open-ended spanner:** To DIN 3110, ISO 3318, ISO 1085, ISO 10102, 15° jaw position, surface matt satin plate-chromed, chrome-vanadium steel
- > **Engineers' hammer:** Forged hammer head of tempered steel, inductively hardened striking surfaces, to DIN 1041, ash handle, paint-coated shaft end, ring wedge
- > **Combination pliers:** To DIN ISO 5746, gripping zones for flat and round material, inductively hardened cutting edges, dual-material handle, chrome-vanadium steel
- > **Power side cutter:** To DIN ISO 5749, high degree of cutting performance, inductively hardened, long cutting edges, dual-material handle, chrome-vanadium steel
- > **Pincer:** To DIN ISO 9243, head ground, inductively hardened cutting edges, dipped handle covers, forged
- > **Tape measure:** ABS dual-material housing, clip, nylon-coated tape, mm-graduation, with tape rewind and lock, magnetic stop, Accuracy Class II
- > **Blue pencil:** Oval form
- > **2C screwdriver:** PZ slot and cross-slotted, acc. to DIN and VDE screwdriver slot and cross-slotted PH, VDE-insulated acc. to DIN EN 60900, high-grade chrome-molybdenum steel blade, chrome-plated, phosphated driven tip, dual-material handle, 5-edge grip head, elongated hole in handle
- > **Hexagon socket key:** To DIN ISO 2936, hardened throughout, chrome-vanadium steel, phosphated, in holder
- > **Flat chisel:** To DIN 6453, cutting edge and head ground, impact end tempered, chrome-vanadium steel
- > **Water pump pliers:** To DIN 8976 Form C, lengthways-serrated gripping surfaces, box joint, 7 settings, chrome vanadium steel, powder-coated
- > **Phase tester:** Max. 250 volt, black gun-metal tip, red plastic jacket, anti-slip handle surface, synthetic clip, to DIN 0680-6:1977-04
- > **VDE Cable knife:** VDE-insulated to DIN EN 60900, strong straight blade, straight cutting edge, protective cap, dual-material handle, hands-friendly transfer of force
- > **Half-round file:** To DIN 7261, dual-material handle, hands-friendly transfer of force, hole for hanging up
- > **Utility knife:** Blade 18 mm, synthetic housing, metal blade guide, one-handed operation, 5 spare blades (100mm long, 0.4mm thick), with sharpener
- > **Adjustable spanner:** 15° jaw position, polished head with lasered scale, 40-50 HRC, chrome-vanadium steel, chrome-plated
- > **Bit box:** Drive adapter with magnetic bit locking, hexagon drive to DIN 3126 ISO 1173 - C 6.3, machine operated, phosphated, plastic box
- > **Bit screwdriver:** Dual-material handle, hex recess drive to DIN 3126 - D 6.3 (1/4") for bits, magnet, elongated hole in the handle, chrome-vanadium steel



R21600072



R21650072

Three variants of the BASIS assortment are available.

Contents		pieces	
Double open-ended spanners 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 mm, Engineers' hammer 300 g, Combination pliers 180 mm, Power side cutter 200 mm, Pincer 200 mm, Multifunction saw 300 mm, Tape measure 3 m, Blue pencil 175 mm, Screwdriver slotted 4 5.5 6.5 mm, Screwdriver cross-slotted PZ 1 2, Hexagon socket key set, 9 pcs, 1.5 2 2.5 3 4 5 6 8 10 mm, VDE screwdriver slotted 3 mm 170 mm, VDE Screwdriver cross-head PH 2   210 mm, Flat cold chisel 125 mm, Water pump pliers 10", 250 mm, Phase tester 3 mm   135 mm, VDE cable cutter 185 mm, Half-round file 310 mm, Utility knife with pencil sharpener 175 mm, Adjustable spanner 8" 200 mm, Bit box, 32 pcs, Bit screwdriver 210 mm, Spirit level 300 mm		72	5.6

Code	No.	Contents	pieces	
<b>3301627</b>	R21000072	Tool set BASIC, loose	72	5.6
<b>3301628</b>	R21600072	Tool set BASIS in tool box R20600073	72	10.6
<b>3301630</b>	R21650072	Tool set BASIC in tool case R20650066 72	72	10.4

# R2100 0059

## UNIVERSAL SET ALLROUND

59 pieces



- > **Combination spanner:** To DIN 3113, Form A ISO 3318, ISO 7738, ring side angled 15° jaw position, surface matt satin, plate-chromed, chrome-vanadium steel
- > **Engineers' hammer:** Forged hammer head of tempered steel, inductively hardened striking surfaces, to DIN 1041, ash handle, paint-coated shaft end, ring wedge
- > **Combination pliers:** To DIN ISO 5746, gripping zones for flat and round material, inductively hardened cutting edges, dual-material handle, chrome-vanadium steel
- > **Side cutters:** To DIN ISO 5749, slender head, inductively hardened, long cutting edges, dual-material handle, chrome-vanadium steel
- > **2C screwdriver:** Slot and cross-slotted PH, PZ, to DIN, high-grade chrome-molybdenum steel blade, chrome-plated, phosphated driven tip, dual-material handle, 5-edge grip head, elongated hole in handle
- > **Hexagon socket key:** To DIN, hardened throughout, chrome-vanadium steel, phosphated, in holder
- > **Flat and cross-cut chisel:** To DIN, cutting edge and head ground, impact end tempered, chrome-vanadium steel
- > **Hexagonal punch:** To DIN 6458, impact end annealed, chrome-vanadium steel
- > **Centre punch, hexagonal:** To DIN 7250, impact end annealed, chrome-vanadium steel
- > **Water pump pliers:** To DIN 8976 Form C, lengthways-serrated gripping surfaces, box joint, 7 settings, chrome vanadium steel, powder-coated
- > **Phase tester:** Max. 250 volt, black gun-metal tip, red plastic jacket, anti-slip handle surface, synthetic clip, to DIN 0680-6:1977-04
- > **Round and flat files:** To DIN 7261, dual-material handle, hands-friendly transfer of force, hole for hanging up
- > **Adjustable spanner:** 15° jaw position, polished head with lasered scale, 40-50 HRC, chrome-vanadium steel, chrome-plated
- > **Wood sectioned folding ruler:** Metric dual scale, Accuracy Class III, EC-design approval for continuous mm division, beech wood with through-riveted joints
- > **Carbide scriber:** Pencil and carbide scriber in one, straight form, retractable nib, metal housing, attaching clip



R21650059

Two variants of the ALLROUND assortment are available.

Contents			pieces	
Combination spanner 8 9 10 11 12 13 14 15 16 17 18 19 21 22 24 27 mm, Adjustable spanner 6" 12", Scriber 150 mm, Wood sectioned folding ruler 2 m, Screwdriver slotted 4 5.5 6.5 mm, Screwdriver cross-slotted PH 1 2, Screwdriver cross-slotted PZ 1 2, Hexagon socket key set, 9 pcs, 1.5 2 2.5 3 4 5 6 8 10 mm, Hexagon socket key set, 9 pcs, TX T10 T15 T20 T25 T27 T30 T40 T45 T50, Phase tester 3 mm 135 mm, Combination plier 180 mm, Side cutter 160 mm, Water pump pliers 10", 250 mm, Engineers' hammer 300 g 800 g, Flat cold chisel 250 mm, Cross-cut chisel 150 mm, Drift punch 3 4 5 mm   150 mm, Centre punch 5 mm   120 mm, Flat file 310 mm, Round file 310 mm			59	8.6
Code	No.	Contents	pieces	
3301632	R21000059	Tool set ALLROUND, loose	59	8.6
3301635	R21650059	Tool set ALLROUND in tool case R20650066	59	10.4



# R21000057

## UNIVERSAL SET MECHANIC

57 pieces



**Socket wrench tools:**

- > Coupler in acc. with DIN 3120, ISO 1174, with ball locking device
- > Square drive acc. to DIN 3120, ISO 1174, with ball retention groove
- > 2C reversible ratchet, lever for reversible right and left hand operation, push button release, fine-toothed, oval head, dual-material handle, hands-friendly transfer of force, for sockets
- > Socket 1/2", hex, metric, short design based on DIN 3124, ISO 2725
- > Spark plug socket 1/2" with pressed-in holding rubber
- > Spark plug socket 1/2" with pressed-in holding rubber and additional drive hex AF 24
- > Socket extension 1/2":
- > Universal joint 1/2", joint bolted on, design to DIN 3123 - C 12,5
- > For hand-operated bolting operations
- > Chrome-vanadium steel, matt satin chrome-plated
- > Holding rail, for equipping with adaptors for 1/2" sockets, aluminium
- > **Combination spanner:** To DIN 3113, Form A ISO 3318, ISO 7738, ring side angled 15° jaw position, surface matt satin, plate-chromed, chrome-vanadium steel
- > **Engineers' hammer:** Forged hammer head of tempered steel, inductively hardened striking surfaces, to DIN 1041, ash handle, paint-coated shaft end, ring wedge
- > **Combination pliers:** To DIN ISO 5746, gripping zones for flat and round material, inductively hardened cutting edges, dual-material handle, chrome-vanadium steel
- > **Side cutters:** To DIN ISO 5749, slender head, inductively hardened, long cutting edges, dual-material handle, chrome-vanadium steel
- > **2C screwdriver:** Slot and cross-slotted PH, to DIN, high-grade chrome-molybdenum steel blade, chrome-plated, phosphated driven tip, dual-material handle, 5-edge grip head, elongated hole in handle
- > **Hexagon socket key:** To DIN, hardened throughout, chrome-vanadium steel, phosphated, in holder
- > **Water pump pliers:** To DIN 8976 Form C, lengthways-serrated gripping surfaces, box joint, 7 settings, chrome vanadium steel, powder-coated
- > **Phase tester:** Max. 250 volt, 1-component handle, transparent plastic, metal clip
- > **Tape measure:** ABS dual-material housing, clip, nylon-coated tape, mm-graduation, with tape rewind and lock, magnetic stop, Accuracy Class II



R21650057

Two variants of the MECHANIC assortment are available.

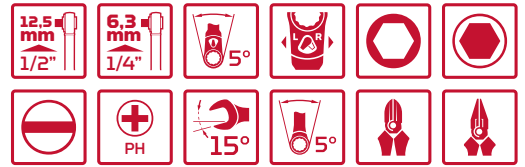
Contents		pieces	kg
Combination spanner 6 7 8 9 10 11 12 13 14 15 16 17 18 19 mm, Screwdriver slotted 3 4 5.5 6.5 mm, Screwdriver cross-head PH 0 1 2, Phase tester 3 mm   144 mm, Hexagon socket key set, 9 pcs, 1.5 2 2.5 3 4 5 6 8 10 mm, Socket 1/2" hexagon 8 10 11 12 13 14 15 16 17 18 19 22 24 mm, 2C reversible ratchet 1/2", Extension 1/2" 125 250 mm, Universal joint 1/2" 66 mm, Spark plug socket 1/2" 16 21 mm   65 mm, Holding rail 8", Adaptor 1/2" for holding rail, Combination plier 180 mm, Side cutter 160 mm, Water pump pliers 10", 250 mm, Engineers' hammer 300 g, Tape measure 3 m		57	5.5

Code	No.	Contents	pieces	kg
3301637	R21000057	Tool set MECHANIC, loose	57	5.5
3301640	R21650057	Tool set MECHANIC in tool case R20650066 57	57	10.3

# R21000108

## UNIVERSAL SET ALL-IN

108 pieces



**Socket wrench tools:**

- > Coupler in acc. with DIN 3120, ISO 1174, with ball locking device
- > Square drive acc. to DIN 3120, ISO 1174, with ball retention groove
- > **2C reversible ratchet 1/4" + 1/2"**: Lever for reversible right and left hand operation, push button release, fine-toothed, oval head, dual-material handle, hands-friendly transfer of force, for sockets
- > Socket 1/2", hex, metric, short design based on DIN 3124, ISO 2725
- > Socket extension
- > **Universal joint**: Joint bolted on, design to DIN 3123 - C 12.5
- > For hand-operated bolting operations
- > Chrome-vanadium steel, matt satin chrome-plated
- > Holding rail, for equipping with adaptors for 1/2" sockets, aluminium
- > **Ratchet wrench, metric**: Based on DN 3113, ISO 3318, straight, 15° jaw position, surface matt satin plate-chromed, chrome-vanadium steel
- > **Engineers' hammer**: Forged hammer head of tempered steel, inductively hardened striking surfaces, to DIN 1041, ash handle, paint-coated shaft end, ring wedge
- > **Combination pliers**: To DIN ISO 5746, gripping zones for flat and round material, inductively hardened cutting edges, dual-material handle, chrome-vanadium steel
- > **Power side cutter**: To DIN ISO 5749, high degree of cutting performance, inductively hardened, long cutting edges, dual-material handle, chrome-vanadium steel
- > **Bent nose telephone pliers, straight**: To DIN ISO 5745, straight gripping surfaces, lengthways-serrated, inductively hardened cutting edges, dual-material handle, chrome-vanadium steel
- > **Tape measure**: ABS dual-material housing, clip, nylon-coated tape, mm-graduation, with tape rewind and lock, magnetic stop, Accuracy Class II
- > **2C screwdriver**: Slot and cross-slotted PH, to DIN, high-grade chrome-molybdenum steel blade, chrome-plated, phosphated driven tip, dual-material handle, 5-edge grip head, elongated hole in handle
- > **Hexagon socket key**: To DIN ISO 2936, hardened throughout, chrome-vanadium steel, phosphated, in holder
- > **Flat chisel**: To DIN 6453, cutting edge and head ground, impact end tempered, chrome-vanadium steel
- > **Water pump pliers**: To DIN 8976 Form C, lengthways-serrated gripping surfaces, box joint, 7 settings, chrome vanadium steel, powder-coated
- > **Hexagonal punch**: To DIN 6458, impact end annealed, chrome-vanadium steel
- > **Centre punch, hexagonal**: To DIN 7250, impact end annealed, chrome-vanadium steel
- > **Pin punch, octagonal**: To DIN 6450, impact end annealed, chrome-vanadium steel
- > **Utility knife**: Blade 18 mm, synthetic housing, metal blade guide, one-handed operation, 5 spare blades (100mm long, 0.4mm thick), with sharpener
- > **Bit box**: Drive adapter with magnetic bit locking, hexagon drive to DIN 3126 ISO 1173 - C 6.3, machine operated, phosphated, plastic box
- > **Bit screwdriver**: Dual-material handle, hex recess drive to DIN 3126 - D 6.3 (1/4") for bits, magnet, elongated hole in the handle, chrome-vanadium steel



R21650108

Two variants of the ALL-IN assortment are available.

Contents		pieces	kg
2C reversible ratchet 1/2" 250 mm, Extension 1/2" 125 250 mm, Universal joint 1/2" 66 mm, Socket 1/2" hexagon 8 10 11 12 13 14 15 16 17 18 19 22 24 27 30 32 mm		108	8.6
2C reversible ratchet 1/4" 150 mm, Extension 1/4" 100 mm, Socket 1/4" hexagon 4 4.5 5 5.5 6 7 8 9 10 11 12 13 14 mm, Bit box, 32 pcs, Bit screwdriver 210 mm, Universal joint 1/4" 33 mm, 2 x Holding rail 8", Adaptor 1/4" + 1/2" for holding rail, Ratchet wrench set 8 9 10 11 12 13 14 15 17 19 mm, Screwdriver slotted 3 4 5.5 6.5 mm, Screwdriver cross-slotted PH 1 2, Hexagon socket key set, 9 pcs, 1.5 2 2.5 3 4 5 6 8 10 mm, Combination plier 180 mm, Power side cutter 200 mm, Bent nose telephone pliers, straight 200 mm, Water pump pliers 10", 250 mm, Engineers' hammer 500 g, Flat cold chisel 150 mm, Centre punch 4 mm   120 mm, Pin punch 4 mm   120 mm, Drift punch 4 mm   150 mm, Utility knife with pencil sharpener 175 mm, Tape measure 5 m			

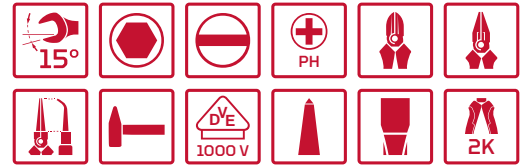
Code	No.	Contents	pieces	kg
3301642	R21000108	Tool set ALL-IN, loose	108	8.6
3301645	R21650108	Tool set ALL-IN in tool case R20650066	108	13.4


# R21000042

## SPECIAL SET ELECTRO-TECHNICS

42 pieces

- > **Double open-ended spanner:** To DIN 3110, ISO 3318, ISO 1085, ISO 10102, 15° jaw position, surface matt satin plate-chromed, chrome-vanadium steel
- > **VDE Combination pliers:** To DIN ISO 5746, meets requirements of VDE 0682 Part 201 and EN/EC 60900, with gripping zones for flat and round material, inductively hardened cutting edges, dual-material handle, chrome-vanadium steel
- > **VDE power side cutter:** To DIN ISO 5749, meets requirements of VDE 0682 Part 201 and EN/EC 60900 high cutting performance, slim head form, inductively hardened cutting edges, dual-material handle, chrome-vanadium steel
- > **VDE Bent nose telephone pliers, angled:** To DIN ISO 5745, meets requirements of VDE 0682 Part 201 and EN/EC 60900, 45°-angled gripping surfaces, lengthways-serrated, inductively hardened cutting edges, dual-material handle, forged
- > **VDE Cable knife:** VDE-insulated to DIN EN 60900, stable, partially insulated and replaceable blade, straight cutting edge, protective cap, safety handle of impact-resistant plastic
- > **VDE screwdriver slotted and cross-slotted PH:** VDE-insulated in acc. with DIN EN 60900, high-grade chrome-molybdenum steel blade, chrome-plated, phosphated driven tip, dual-material handle, 5-edge grip head, elongated hole in handle
- > **Hexagon socket key:** To DIN ISO 2936, hardened throughout, chrome-vanadium steel, phosphated, in holder
- > **Engineers' hammer:** Forged hammer head of tempered steel, inductively hardened striking surfaces, to DIN 1041, ash handle, paint-coated shaft end, ring wedge
- > **Club hammer:** Forged hammer head of tempered steel, inductively hardened striking surfaces, to DIN 6475, ash handle, paint-coated shaft end, ring wedge
- > **Flat chisel:** To DIN 6453, cutting edge and head ground, impact end tempered, chrome-vanadium steel
- > **Electrician's chisel, square:** Cutting edge and head ground, impact end annealed, chrome-vanadium steel
- > **Point chisel, octagonal:** To DIN 7256, cutting edge and head ground, impact end tempered, chrome-vanadium steel
- > **Centre punch, hexagonal:** To DIN 7250, impact end annealed, chrome-vanadium steel
- > **Phase tester:** Max. 250 volt, black gun-metal tip, red plastic jacket, anti-slip handle surface, synthetic clip, to DIN 0680-6:1977-04
- > **Wood sectioned folding ruler:** Metric dual scale, Accuracy Class III, EC-design approval for continuous mm division, beech wood with through-riveted joints
- > **Carbide scriber:** Pencil and carbide scriber in one, straight form, retractable nib, metal housing, attaching clip
- > **Voltage tester:** To DIN ISO 0680, 8 LED displays, DC and AC measurement, Protection classification IP65
- > **Spirit level:** Smooth aluminium rectangular profile, two acrylic vials, measurement accuracy: +/- 0.5 mm/m, powder-coated, impact-resistant end cap
- > **Scraper:** For minor improvements/repairs, wooden handle, with hanging-up hole
- > **Blue pencil:** Oval form



Code	No.	Contents	pieces	
3301646	R21000042	Double open-ended spanners 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 mm Engineers' hammer 300 g, Club hammer 1000 g, Carbide scriber with clip 150 mm, Centre punch 5 mm   120 mm, Flat cold chisel 250 mm, Point chisel 250 mm, Electricians' chisel 250 mm, Voltage tester 6-400 V AC/DC, Phase tester 3 mm   135 mm, Wood sectioned folding ruler 2 m, Scraper 60 mm, VDE Screwdriver slotted 2.5 3 4 5.5 mm, VDE Screwdriver cross-head PH 1 2, VDE Combination pliers 180 mm, VDE Side cutter 160 mm, VDE Bent nose telephone pliers, angled 200 mm, VDE cable cutter 185 mm, Hexagon socket key set, 9 pcs, 1.5 2 2.5 3 4 5 6 8 10 mm, Spirit level 300 mm, Blue pencil 175 mm	42	7.0

# R21010000

## TOOL SET

in foam modules, 81 pieces



**Socket wrench tools:**

- > Coupler in acc. with DIN 3120, ISO 1174, with ball locking device
- > Square drive acc. to DIN 3120, ISO 1174, with ball retention groove
- > **2C reversible ratchet 1/2"**: To DIN 3120 - A 12.5, ISO 1174, lever for right and left-hand operation, push button release, fine-toothed, oval form, dual-material handle
- > Socket extension 1/2"
- > Sliding T bar 1/2", with slide, to DIN 3122, ISO 3315
- > **Universal joint 1/2"**: Joint bolted on, design to DIN 3123 - C 12.5
- > Chrome-vanadium steel, matt satin chrome-plated
- > Square drive acc. to DIN 3120, ISO 1174, with ball retention groove
- > **Socket, hex:** Metric, short, to DIN 3124, ISO 2725
- > **Screwdriver bit socket 1/2" for in-hex screws:** Pressed-in, phosphated pin
- > Chrome-vanadium steel, matt satin chrome-plated
- > For hand-operated bolting operations
- > **Combination spanner:** To DIN 3113, Form A ISO 3318, ISO 7738, ring side angled 15° jaw position, surface matt satin, plate-chromed
- > **Hexagon socket key set:** To DIN ISO 2936, hardened throughout, phosphated
- > Chrome-vanadium steel
- > **Water pump pliers:** To DIN 8976 Form C, lengthways-serrated gripping surfaces, box joint, 7 settings, chrome vanadium steel, powder-coated
- > **Combination pliers:** To DIN ISO 5746, inductively hardened cutting edges, dual-material handle, forged
- > **Bent nose telephone pliers:** To DIN ISO 5745, straight gripping surfaces, lengthways-serrated, inductively hardened cutting edges, dual-material handle, forged
- > **Side cutters:** To DIN ISO 5749, slender head, inductively hardened, long cutting edges, dual-material handle, forged
- > **Engineers' hammer:** Forged hammer head of tempered steel, inductively hardened striking surfaces, to DIN 1041, ash handle, paint-coated shaft end, ring wedge
- > **Flat cold chisel, flat oval:** To DIN 6453, cutting edge and head ground, impact end tempered, chrome-vanadium steel
- > **Cross-cut chisel, flat oval:** To DIN 6451, cutting edge, sides and head ground, impact end tempered, chrome-vanadium steel
- > **Hexagonal punch:** To DIN 6458, impact end annealed, chrome-vanadium steel
- > **Centre punch, hexagonal:** To DIN 7250, impact end annealed, chrome-vanadium steel
- > **Pin punch, octagonal:** To DIN 6450, impact end annealed, chrome-vanadium steel
- > **2C screwdriver slotted and PH:** To DIN, high-grade chrome-molybdenum steel blade, chrome-plated, phosphated driven tip, dual-material handle, 5-edge grip head, elongated hole in handle
- > **2C screwdriver TX:** Chrome-molybdenum steel blade, chrome-plated, phosphated driven tip, dual-material handle, 5-edge grip head, elongated hole in handle
- > **Utility knife:** Blade 25 mm, synthetic housing, metal blade guide, one-handed operation, 5 spare blades



Code	No.	Contents	pieces	
3301655	R21010000	R22150013 Screwdriver set in the 1/3 module foam module R22150018 Pliers set in the 1/3 module foam module R22150019 Hammer and chisel set in the 1/3 module foam module R22150009 Socket set 1/2" in the foam module R22150008 Ratchet and accessories 1/2" in the 1/3 module in the foam module R22150015 Screwdriver set in the 1/3 foam module R22250000 Combination spanner set and hexagon socket keys in the 2/3 foam module R93200025 Utility knife with 5 spare blades	81	13.0

# R21010001 TOOL SET

in foam modules, 119 pieces



**Socket wrench tools:**

- > Coupler in acc. with DIN 3120, ISO 1174, with ball locking device
- > Square drive acc. to DIN 3120, ISO 1174, with ball retention groove
- > Chrome-vanadium steel, matt satin chrome-plated
- > **2C reversible ratchet 1/4"**: To DIN 3120 - A 6.3, ISO 1174, lever for right and left-hand operation, push button release, fine-toothed, oval form, dual-material handle
- > **Square plug-in handle 1/4"**: 1-component handle with in-hex
- > **Socket 1/4" hexagon**: Metric, short, to DIN 3124, ISO 2725
- > **Screwdriver bit socket 1/4" for in-hex screws**: Pressed-in, phosphated pin
- > **Screwdriver bit socket 1/4" slotted, PH, PZ, TX with drill hole**: Pressed-in, phosphated pin
- > Socket extension 1/4"
- > **Sliding T-handle with slide 1/4"**: Acc. to DIN 3122, ISO 3315
- > **Universal joint 1/4"**: Joint bolted on, design to DIN 3123 - C 6.3
- > **2C reversible ratchet 1/2"**: To DIN 3120 - A 12.5, ISO 1174, lever for right and left-hand operation, push button release, fine-toothed, oval form, dual-material handle
- > Socket extension 1/2":
- > Sliding T bar 1/2", with slide, to DIN 3122, ISO 3315
- > **Universal joint 1/2"**: Joint bolted on, design to DIN 3123 - C 12.5
- > **Socket, hex**: Metric, short, to DIN 3124, ISO 2725
- > **Screwdriver bit socket 1/2" for in-hex screws**: Pressed-in, phosphated pin
- > **Combination spanner**: To DIN 3113, Form A ISO 3318, ISO 7738, ring side angled 15° jaw position, surface matt satin, chrome-plated
- > Hexagon socket key set: To DIN ISO 2936, hardened throughout, phosphated
- > Chrome-vanadium steel
- > **Water pump pliers**: To DIN 8976 Form C, lengthways-serrated gripping surfaces, box joint, 7 settings, chrome vanadium steel, powder-coated
- > **Combination pliers**: To DIN ISO 5746, inductively hardened cutting edges, dual-material handle, forged
- > **Bent nose telephone pliers**: To DIN ISO 5745, straight gripping surfaces, lengthways-serrated, inductively hardened cutting edges, dual-material handle, forged
- > **Side cutters**: To DIN ISO 5749, slender head, inductively hardened, long cutting edges, dual-material handle, forged
- > **Engineers' hammer**: Forged hammer head of tempered steel, inductively hardened striking surfaces, to DIN 1041, ash handle, paint-coated shaft end, ring wedge
- > **Flat cold chisel, flat oval**: To DIN 6453, cutting edge and head ground, impact end tempered, chrome-vanadium steel
- > **Cross-cut chisel, flat oval**: To DIN 6451, cutting edge, sides and head ground, impact end tempered, chrome-vanadium steel
- > **Hexagonal punch**: To DIN 6458, impact end annealed, chrome-vanadium steel
- > **Centre punch, hexagonal**: To DIN 7250, impact end annealed, chrome-vanadium steel
- > **Pin punch, octagonal**: To DIN 6450, impact end annealed, chrome-vanadium steel
- > **2C screwdriver slotted and PH**: To DIN, high-grade chrome-molybdenum steel blade, chrome-plated, phosphated driven tip, dual-material handle, 5-edge grip head, elongated hole in handle
- > **2C screwdriver TX**: Chrome-molybdenum steel blade, chrome-plated, phosphated driven tip, dual-material handle, 5-edge grip head, elongated hole in handle
- > **Tape measure**: ABS dual-material housing, clip, nylon-coated tape, mm-graduation, with tape rewind and lock, magnetic stop, Accuracy Class II
- > **Utility knife**: Blade 25 mm, synthetic housing, metal blade guide, one-handed operation, 5 spare blades

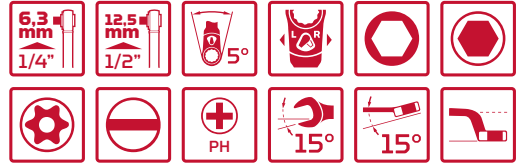


Code	No.	Contents	pieces	kg
3301656	R21010001	R22150018 Pliers set in the 1/3 in the foam module R22150006 Socket set 1/4" in the 1/3 in the foam module R22150009 Socket set 1/2" in the 1/3 in the foam module R22150013 Screwdriver set in the 1/3 foam module R22150019 Hammer and chisel set in the 1/3 in the module foam module R22150008 Ratchet and accessories 1/2" in the 1/3 module in the foam module R22150015 Screwdriver set in the 1/3 foam module R22250000 Combination spanner set and hexagon socket keys in the 2/3 in the foam module R93200025 Utility knife with 5 spare blades R94550003 Tape measure 3 m	119	14.0

# R21010002

## TOOL SET

in foam modules, 166 pieces



### Socket wrench tools:

- > Coupler in acc. with DIN 3120, ISO 1174, with ball locking device
- > Square drive acc. to DIN 3120, ISO 1174, with ball retention groove
- > Chrome-vanadium steel, matt satin chrome-plated
- > **2C reversible ratchet 1/4"**: To DIN 3120 - A 6.3, ISO 1174, lever for right and left-hand operation, push button release, fine-toothed, oval form, dual-material handle
- > **Square plug-in handle 1/4"**: 1-component handle with in-hex
- > **Socket 1/4" hexagon**: Metric, short, to DIN 3124, ISO 2725
- > **Screwdriver bit socket 1/4" for in-hex screws**: Pressed-in, phosphated pin
- > Screwdriver bit socket 1/4" slotted, PH, PZ, TX with drill hole: Pressed-in, phosphated pin
- > Socket extension 1/4"
- > **Sliding T-handle with slide 1/4"**: Acc. to DIN 3122, ISO 3315
- > **Universal joint 1/4"**: Joint bolted on, design to DIN 3123 - C 6.3
- > **2C reversible ratchet 1/2"**: To DIN 3120 - A 12.5, ISO 1174, lever for right and left-hand operation, push button release, fine-toothed, oval form, dual-material handle
- > Socket extension 1/2"
- > Sliding T bar 1/2", with slide, to DIN 3122, ISO 3315
- > **Universal joint 1/2"**: Joint bolted on, design to DIN 3123 - C 12.5
- > **Socket, hex**: Metric, short, to DIN 3124, ISO 2725
- > **Screwdriver bit socket 1/2" for in-hex screws**: Pressed-in, phosphated pin
- > **Ratchet wrenches**: Based on DIN 3113, ISO 3318, ring offset 15°, reversible for right and left-hand operation, 15° jaw position, surface matt satin chrome-plated
- > **Hexagon socket key set**: To DIN ISO 2936, hardened throughout, phosphated
- > Chrome-vanadium steel
- > **Flat ring spanner**: To DIN 838, ISO 3318, ISO 1085, ISO 10104, 5° offset, chrome vanadium steel, surface matt satin, chrome-plated
- > **Water pump pliers**: To DIN 8976 Form C, lengthways-serrated gripping surfaces, box joint, 7 settings, chrome vanadium steel, powder-coated
- > **Combination pliers**: To DIN ISO 5746, inductively hardened cutting edges, dual-material handle, forged
- > **Bent nose telephone pliers**: To DIN ISO 5745, straight gripping surfaces, lengthways-serrated, inductively hardened cutting edges, dual-material handle, forged
- > **Side cutters**: To DIN ISO 5749, slender head, inductively hardened, long cutting edges, dual-material handle, forged
- > **Circlip pliers**: To DIN 5254 Form A, straight precision tips, opening spring, DIN 471 for retaining rings, DIN 983
- > To DIN 5254 Form B, angled precision tips, opening spring, DIN 471 for retaining rings, DIN 983
- > To DIN 5256 Form C, straight precision tips, opening spring, DIN 472 for retaining rings, DIN 984
- > To DIN 5256 Form D, 90° angled precision tips, DIN 472 for retaining rings, DIN 984
- > Dipped handle protectors
- > Chrome-vanadium steel
- > **Engineers' hammer**: Forged hammer head of tempered steel, inductively hardened striking surfaces, to DIN 1041, ash handle, paint-coated shaft end, ring wedge
- > **Flat cold chisel, flat oval**: To DIN 6453, cutting edge and head ground, impact end tempered, chrome-vanadium steel
- > **Cross-cut chisel, flat oval**: To DIN 6451, cutting edge, sides and head ground, impact end tempered, chrome-vanadium steel
- > **Hexagonal punch**: To DIN 6458, impact end annealed, chrome-vanadium steel
- > **Centre punch, hexagonal**: To DIN 7250, impact end annealed, chrome-vanadium steel
- > **Pin punch, octagonal**: To DIN 6450, impact end annealed, chrome-vanadium steel
- > **2C screwdriver**: Slot and cross-slotted PZ, to DIN, high-grade chrome-molybdenum steel blade, chrome-plated, phosphated driven tip, dual-material handle, 5-edge grip head, elongated hole in handle
- > **2C screwdriver TX**: Chrome-molybdenum steel blade, chrome-plated, phosphated driven tip, dual-material handle, 5-edge grip head, elongated hole in handle
- > **Digital measuring calliper**: LCD display, reset setting, precision roller adjustment, mm/inch changeover, ground tips, in box incl. spare battery, operating instructions, PC interface, locking screw, thread table on the back
- > **Clamp locking plier**: Lengthways-serrated grip surfaces, setting screw and release lever, one-hand operation, surface chrome-plated, chrome vanadium steel
- > **Half-round file**: To DIN 7261, dual-material handle, hands-friendly transfer of force, hole for hanging up

- > **Tape measure**: ABS dual-material housing, clip, nylon-coated tape, mm-graduation, with tape rewind and lock, magnetic stop, Accuracy Class II
- > **Utility knife**: Blade 25 mm, synthetic housing, metal blade guide, one-handed operation, 5 spare blades
- > **(De)magnetizer**: Magnetizer for bolting and gripping tools, demagnetizer for tools
- > **Feeler gauge set**: Protective handle, folding, blades tapering to a cone, of hardened spring steel
- > **Bit box**: Drive adapter with magnetic bit locking, hexagon drive to DIN 3126 ISO 1173 - C 6.3, machine operated, phosphated, plastic box





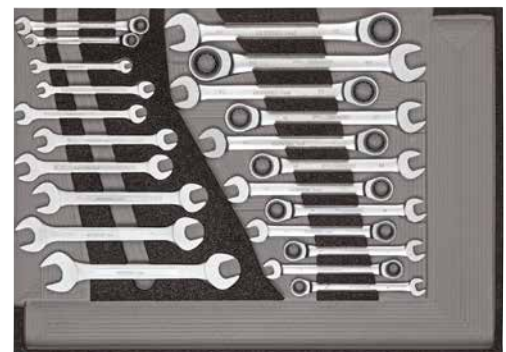
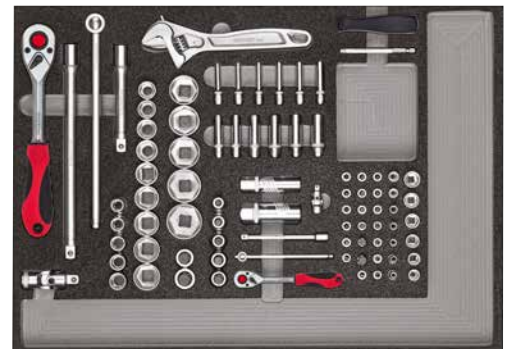
Code	No.	Contents	pieces	kg
3301657	R21010002	R22150006 Socket set 1/4" in the 1/3 foam module, R22150000 Double-ended ring spanner in the 1/3 foam module, R22150018 Pliers set in the 1/3 foam module, R22150019 Hammer and chisel set in the 1/3 module foam module, R22150009 Socket set 1/2" in the 1/3 foam module, R22150008 Ratchet and accessories 1/2" in the foam module, R22250001 Ratchet wrench set in the 2/3 foam module, R22150014 Screwdriver set in the 1/3 foam module, R22150015 Screwdriver set in the 1/3 foam module, R22150017 Circlip pliers set in the 1/3 foam module, R27200010 Clamp locking plier 10" 225 mm, R33005031 Bit box 1/4" 32 pieces, R38990000 (De)magnetizer R94420021 Digital measuring calliper, R93200025 Utility knife with 5 spare blades 175 mm, R94650013 Feeler gauge set, R93160052 Half-round file 310 mm, R94550003 Tape measure 3 m	166	19.0

## R21010004 TOOL SET

in foam modules, 129 pieces



- > Coupler in acc. with DIN 3120, ISO 1174, with ball locking device
- > Square drive acc. to DIN 3120, ISO 1174, with ball retention groove
- > **2C reversible ratchet 1/4" + 1/2"**: Lever for reversible right and left hand operation, push button release, fine-toothed, oval head, dual-material handle, hands-friendly transfer of force, for sockets
- > **Square plug-in handle 1/4"**: 1-component handle with in-hex
- > **Socket 1/4" + 1/2"**: hex, metric, short and long type based on DIN 3124, ISO 2725
- > Spark plug socket 1/2" with pressed-in holding rubber
- > Spark plug socket 1/2" with pressed-in holding rubber and additional drive hex AF 24
- > **Screwdriver bit socket 1/4" + 1/2" for in-hex screws**: Pressed-in, phosphated pin
- > **Screwdriver bit socket 1/4" slotted, PH, PZ, TX with drill hole**: Pressed-in, phosphated pin
- > **Sliding T-handle with slide 1/4" + 1/2"**: Acc. to DIN 3122, ISO 3315
- > Socket extension 1/4" + 1/2"
- > **Universal joint 1/4" + 1/2"**: Joint bolted on, design to DIN 3123 - C 12.5
- > **Adjustable spanner**: 15° jaw position, polished head with lasered scale
- > Chrome-vanadium steel, matt satin chrome-plated
- > **Ratchet wrenches**: Based on DN 3113, ISO 3318, straight, 72-toothed ratchet mechanism, 5° working angle, 15° jaw position, surface matt satin plate-chromed, chrome-vanadium steel
- > **Double open-ended spanner**: To DIN 3110, ISO 3318, ISO 1085, ISO 10102, 15° jaw position, surface matt satin chrome-plated, chrome-vanadium steel
- > **Combination pliers**: To DIN ISO 5746, gripping zones for flat and round material, inductively hardened cutting edges, dual-material handle, chrome-vanadium steel
- > **Side cutters**: To DIN ISO 5749, slender head, inductively hardened, long cutting edges, dual-material handle, chrome-vanadium steel
- > **Bent nose telephone pliers, straight**: To DIN ISO 5745, straight gripping surfaces, lengthways-serrated, inductively hardened cutting edges, dual-material handle, chrome-vanadium steel
- > **Water pump pliers**: To DIN 8976 Form C, lengthways-serrated gripping surfaces, box joint, 7 settings, chrome vanadium steel, powder-coated
- > **2C screwdriver**: Slot and cross-slotted PH, to DIN, high-grade chrome-molybdenum steel blade, chrome-plated, phosphated driven tip, dual-material handle, 5-edge grip head, elongated hole in handle
- > **2C screwdriver TX**: High-grade chrome-molybdenum steel blade, chrome-plated, phosphated driven tip, dual-material handle, 5-edge grip head, elongated hole in handle
- > **Engineers' hammer**: Forged hammer head of tempered steel, inductively hardened striking surfaces, to DIN 1041, ash handle, paint-coated shaft end, ring wedge
- > **Flat chisel**: To DIN 6453, cutting edge and head ground, impact end tempered, chrome-vanadium steel
- > **Cross-cut chisel**: To DIN 6451, cutting edge, sides and head ground, impact end tempered, chrome-vanadium steel
- > **Hexagonal punch**: To DIN 6458, impact end annealed, chrome-vanadium steel
- > **Centre punch, hexagonal**: To DIN 7250, impact end annealed, chrome-vanadium steel
- > **Pin punch, octagonal**: To DIN 6450, impact end annealed, chrome-vanadium steel



Code	No.	Contents	pieces	kg
3301679	R21010004	R22350000 Socket set 1/4" + 1/2" and accessories in the 3/3 foam module R22350005 Screwdriver, pliers, hammer and chisel set in the 3/3 foam module R22350006 Ratchet wrench, double-ended spanner set in the 3/3 foam module	129	13.6

# MOBILE TOOL STORAGE

024 - 027





**R20600073**

## TOOL BOX

5 compartments, empty

- > Made from sheet steel
- > Lockable with padlock
- > With riveted joints
- > Highly stable
- > Without tools



Code	No.	W	H	D	
3301658	R20600073	535	260	210	5.0


**R20750063**

## TOOL BOX

empty

- > Ideal for storage of tools and accessories
- > Of rugged, impact-resistant plastic (polypropylene)
- > Four sorting boxes with adjustable compartments for incidentals
- > Ample space for storage under the lid for e.g. cordless screwdrivers
- > Lockable with padlock
- > Handle folds away flush
- > Can also serve as a stool thanks to its high load capacity
- > Without tools



Code	No.	W	D	H	max. load capacity kg	
3301659	R20750063	420	303	400	150	4.9

## R20650066

### TOOL CASE

empty

- > Strong impact-resistant plastic case
- > Four plastic feet for stability
- > Lockable metal locks, 2 keys
- > 1 document folder in lid, fixed with hook and loop fastener, detachable
- > 1 lid tool pallet with pouches on 2 sides
- > 1 bottom tool pallet with pouches on one side
- > Bottom tray with variable dividers (large or small parts) > Without tools



Code	No.	W	D	H	max. load capacity kg	
3301660	R20650066	445	180	380	30	4.5

## R20802012

### TOOL WALLET

empty

- > Water-repellent surface
- > Stable lock with adjustable strap
- > With flexible straps inside
- > **For tools up to 240 mm in length**
- > 12 compartments as standard and 1 compartment for incidentals
- > Without tools



Example of use

Code	No.
3301626	R20802012

# R20702069

## TOOL/LAPTOP BAG

empty

### Laptop bag up to 17"

- > Padded compartment for safe transport of laptop and accessories
- > Compartment for smartphone
- > Compartments for pencils/pens
- > Small parts compartments, open and closable
- > Compartment for ring binder
- > Outside pocket at the back
- > Trolley holder
- > Separate carrying handles
- > Padded shoulder strap
- > Stable metal eyelets for shoulder strap

### Detachable bag for tools

- > Reinforced zipper for tying to the laptop bag
- > Large, double front pocket with top and front zipper
- > 18 large inside pocket for tools
- > 26 stretch straps for tools of various diameters
- > Separate carrying handles
- > Anti-slip protection surfaces at the bottom
- > Tear and abrasion-proof fabric
- > Without tools



Code	No.	W	D	H	
3301662	R20702069	480	370	140	2.1

# WORKSHOP EQUIPMENT

028 - 037





## Workshop Equipment

# R2015 XXXX WORKSHOP TROLLEY MECHANIC WITH 6 DRAWERS




- > Strong, sheet steel construction, torsionally rigid, designed to take high loads
- > Working platform with ABS top
- > Sides with Euro-standard square perforation for accessories
- > 6 drawers telescopically fully extendable with individual locking (one-hand operation)
- > The individual locking device - unlockable only with a practical, concealed release bar - prevents the drawer being opened when the trolley is in motion
- > Each variably compartmentalised drawer can hold 25 kg
- > Drawer size inside: W 482 x D 345 mm, front height 4x 69 mm, 1x 144 mm, 1x 218 mm
- > Central locking with cylinder lock complete with 4 keys
- > 2 swivel casters Ø 100 mm of which one has a double-stop wheel lock, 2 castors Ø 140 mm, side projecting thus affording considerable stability
- > Without tools



Code	No.	RAL	H	W	D		max. load capacity kg	
3301663	R20150006	3020 / 7016	910	628	418	Drawers: 4 x H 69 mm 1 x H 144 mm 1 x 218 mm	210	56.0

### SPARE PARTS/ACCESSORIES

Code	No.	Description	
3301719	R20901501	Spare lock with key f.MECHANIC	0.060
3301722	R20901504	Swivel castor f. workshop trolley MECHANIC	0.950
3301721	R20901503	Heavy load fixed castor f. workshop MECHANIC	0.580
3301720	R20901502	Guide rails f. drawers f.MECHANIC	0.760

# R2040 0006

## WORKSHOP TROLLEY MECHANIC PLUS WITH 6 DRAWERS



- > Large storage space with adjustable shelf, separately lockable
- > Strong, sheet steel construction, torsionally rigid, designed to take high loads
- > 988 x 431 mm working platform made of wood, 30 mm thick
- > Sides with Euro-standard square perforation for accessories
- > 6 drawers telescopically fully extendable with individual locking (one-hand operation)
- > Internal size of storage space: H 720 x W 355 x D 380 mm
- > The individual locking device - unlockable only with a practical, concealed release bar - prevents the drawer being opened when the trolley is in motion
- > Each variably compartmentalised drawer can hold 25 kg
- > Drawer size inside: W 482 x D 345 mm, front height 4x 69 mm, 1x 144 mm, 1x 218 mm
- > Central locking with cylinder lock complete with 4 keys
- > 2 swivel casters Ø 100 mm of which one has a double-stop wheel lock, 2 castors Ø 140 mm, side projecting thus affording considerable stability
- > Without tools



Code	No.	RAL	H	W	D		max. load capacity kg	
3301818	R20400006	3020 / 7016	935	988	431	Drawers: 4 x H 69 mm 1 x H 144 mm 1 x 218 mm Storage space: 1 x H 720 x W 355 x D 380 mm	210	81.0

### SPARE PARTS/ACCESSORIES

Code	No.	Description	
3301719	R20901501	Spare lock with key f. MECHANIC	0.060
3301722	R20901504	Swivel castor f. workshop trolley MECHANIC	0.950
3301721	R20901503	Heavy load fixed castor f. workshop MECHANIC	0.580
3301720	R20901502	Guide rails f. drawers f. MECHANIC	0.760



# R2156 0001

## WORKSHOP TROLLEY MECHANIC WITH TOOL SET

119 pieces

- > Strong, sheet steel construction, torsionally rigid, designed to take high loads
- > Working platform with ABS top
- > Sides with square perforation for accessories
- > Storage space on the left with shelf. Internal dimensions H 720 x W 355 x D 380 mm
- > Door, left-hand door stop, lockable, H 670 x W 310 mm
- > 6 drawers telescopically fully extendable with individual locking (one-hand operation)
- > The individual locking device - unlockable only by a practical, concealed release bar - prevents the drawer being opened when the trolley is in motion
- > Each variably compartmentalised drawer can hold 25 kg
- > Drawer size inside: W 482 x D 345 mm, front height 4x 69 mm, 1x 144 mm, 1x 218 mm
- > Central locking with cylinder lock complete with 4 keys
- > 2 swivel casters Ø 100 mm, 1x with double-stop wheel lock, 2 castors Ø 140 mm, side projecting thus affording considerable stability



Code	No.	RAL	H	W	D	Contents		max. load capacity kg	
3301667	R21560001	3020 / 7016	910	628	418	R22150018 Pliers set in 1/3 module R22150006 Socket set 1/4" in 1/3 module R22150009 Socket set 1/2" in 1/3 module R22150013 Screwdriver set in 1/3 module R22150019 Hammer and chisel set in 1/3 module R22150008 Ratchet and accessories 1/2" in 1/3 module R22150015 Screwdriver set in 1/3 module R22250000 Combination spanner set and hexagon socket keys in 2/3 module R93200025 Utility knife with 5 blades R94550003 Tape measure 3 m	Drawers: 4 x H 69 mm 1 x H 144 mm 1 x 218 mm	210	70.0



# R2156 0002

## WORKSHOP TROLLEY MECHANIC WITH TOOL SET

166 pieces

- > Strong, sheet steel construction, torsionally rigid, designed to take high loads
- > Working platform with ABS top
- > Sides with Euro-standard square perforation for accessories
- > 6 drawers telescopically fully extendable with individual locking (one-hand operation)
- > The individual locking device - unlockable only by a practical, concealed release bar - prevents the drawer being opened when the trolley is in motion
- > Each variably compartmentalised drawer can hold 25 kg
- > Drawer size inside: W 482 x D 345 mm, front height 4x 69 mm, 1x 144 mm, 1x 218 mm
- > Central locking with cylinder lock complete with 4 keys
- > 2 swivel casters Ø 100 mm of which one has a double-stop wheel lock, 2 castors Ø 140 mm, side projecting thus affording considerable stability



Code	No.	RAL	H	W	D	Contents		max. load capacity kg	
3301668	R21560002	3020 / 7016	910	628	418	R22150006 Socket set 1/4" in 1/3 module R22150000 Double-ended ring spanner in 1/3 module R22150018 Pliers set in 1/3 module R22150019 Hammer and chisel set in 1/3 module R22150009 Socket set 1/2" in 1/3 module R22150008 Ratchet and accessories 1/2" in 1/3 module R22250001 Reversible ratchet wrench set in 2/3 module R22150014 Screwdriver set in 1/3 module R22150015 Screwdriver set in 1/3 module R22150017 Circlip pliers set in 1/3 module R27200010 Locking plier 10" R33005031 Bit box 1/4" R38990000 (De)magnetiser R94420021 Measuring calliper R93200025 Utility knife with 5 blades R94650013 Feeler gauge set, 13 pcs R93160052 Half-round file R94550003 Tape measure 3 m	Drawers: 4 x H 69 mm 1 x H 144 mm 1 x 218 mm	210	75.0

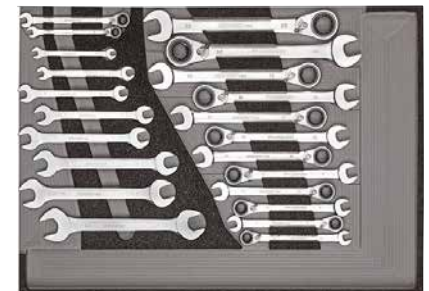
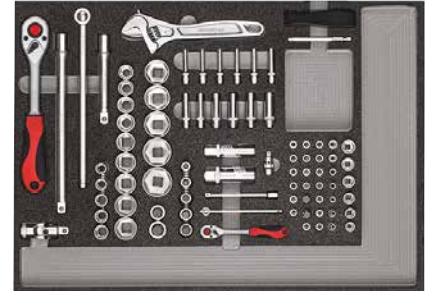


# R2156 0004

## WORKSHOP TROLLEY MECHANIC WITH TOOL SET

129 pieces

- > Strong, sheet steel construction, torsionally rigid, designed to take high loads
- > Working platform with ABS top
- > Sides with Euro-standard square perforation for accessories
- > 6 drawers telescopically fully extendable with individual locking (one-hand operation)
- > The individual locking device - unlockable only by a practical, concealed release bar - prevents the drawer being opened when the trolley is in motion
- > Each variably compartmentalised drawer can hold 25 kg
- > Drawer size inside: W 482 x D 345 mm, front height 4x 69 mm, 1x 144 mm, 1x 218 mm
- > Central locking with cylinder lock complete with 4 keys
- > 2 swivel casters Ø 100 mm of which one has a double-stop wheel lock, 2 castors Ø 140 mm, side projecting thus affording considerable stability



Code	No.	RAL	H	W	D	Contents	max. load capacity kg	
3301673	R21560004	3020 / 7016	910	628	418	R22350000 Tool set sockets, ratchet, accessories 1/4"-1/2" R22350005 Tool set screwdrivers, pliers, hammer, chisel R22350006 Tool set ratchet wrenches, double open-ended spanner	210	70.0
							Drawers:	
							4 x H 69 mm	
							1 x H 144 mm	
							1 x 218 mm	

# R20901500

## SET OF LENGTHWISE DIVIDERS FOR THE MECHANIC WORKSHOP TROLLEY

- > For individual drawer partitioning in workshop trolleys



Code	No.	RAL	L	H	W	pieces	
3301665	R20901500	3020 / 7016	343	60	0.8	6	0.350

# R2020004

## WORKSHOP TROLLEY WINGMAN WITH 4 DRAWERS



- > Strong, sheet steel construction, torsionally rigid, designed to take high loads
- > Working platform with ABS top
- > Side frame with square perforation for accessories, paper roll holder, can holder, waste basket
- > Large manoeuvring handle on both sides
- > 4 drawers telescopically fully extendable with individual locking (one-hand operation)
- > The individual drawer locking stops more than one drawer being opened - provides for considerable stability
- > Load capacity 35 kg per drawer
- > Drawer size inside: W 570 x D 410 mm
- > Drawers with anti-slip mat
- > 4 drawers - front height 83 mm
- > Large compartment with 2 lockable swing doors
- > Dimensions per door: H 386 x W 306 mm
- > Central locking with cylinder lock complete with 2 keys
- > Two swivel castors Ø 125 mm, with brake, two fixed castors



No paper roll included in delivery



Code	No.	RAL	H	W	D		max. load capacity kg	
3301688	R20200004	3020 / 7016	1034	724	470	Drawers: 4x H 83 mm Compartment: H 386 x W 612 mm	380	68.0

### SPARE PARTS/ACCESSORIES

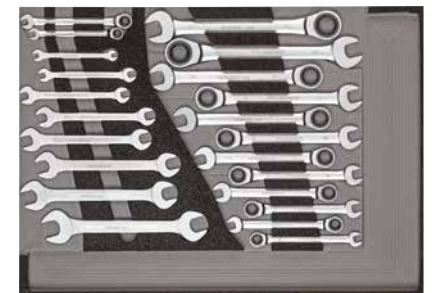
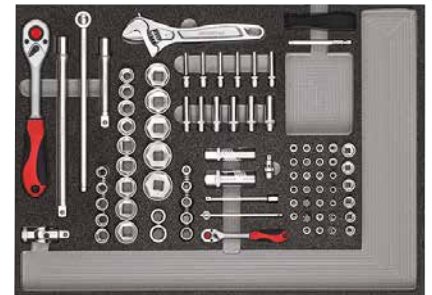
Code	No.	Description	
3301723	R20902005	Spare lock w. key f. WINGMAN	0.060
3301724	R20902006	Guide rails f. draw. f. WINGMAN	1.180
3301725	R20902007	Heavy load fixed castor f. works.trolley WINGMAN	1.300
3301820	R20902009	Swivel castor w.brake f. works.trolley WINGMAN	
3301727	R20902008	Non-slip mat 565x405mm f. works. trolley	0.100
3301696	R20240003	Tool chest WINGMAN 3 drawers 446x724x470	39.000



# R22041004

## WORKSHOP TROLLEY WINGMAN WITH TOOL SET

129 pieces

- > Strong, sheet steel construction, torsionally rigid, designed to take high loads
- > Working platform with ABS top
- > Side frame with square perforation for accessories, with paper roll holder, can holder, waste basket
- > Large manoeuvring handle on both sides
- > 4 drawers telescopically fully extendable with individual locking (one-hand operation)
- > The individual drawer locking stops more than one drawer being opened - provides for considerable stability
- > Load capacity 35 kg per drawer
- > Drawer size inside: W 570 x D 410 mm
- > Drawers with anti-slip mat
- > 4 drawers - front height 83 mm
- > Large compartment with 2 lockable swing doors
- > Dimensions per door: H 386 x W 306 mm
- > Central locking with cylinder lock complete with 2 keys
- > Two swivel castors Ø 125 mm, with brake, two fixed castors



Code	No.	RAL	H	W	D	Contents		max. load capacity kg	
3301689	R22041004	3020 / 7016	1034	724	724	R22350000 Tool set sockets, ratchet, accessories 1/4"-1/2" R22350005 Tool set screwdrivers, pliers, hammer, chisel R22350006 Tool set ratchet wrenches, double open-ended spanner	Drawers: 4x H 83 mm Compartment: H 386 x W 612 mm	380	68.0

# R2020 0007

## WORKSHOP TROLLEY WINGMAN WITH 7 DRAWERS



- > Strong, sheet steel construction, torsionally rigid, designed to take high loads
- > Working platform with ABS top
- > Side frame with square perforation for accessories, paper roll holder, can holder, waste basket
- > Large manoeuvring handle on both sides
- > 7 drawers telescopically fully extendable with individual locking (one-hand operation)
- > The individual drawer locking stops more than one drawer being opened - provides for considerable stability
- > Load capacity 35 kg per drawer
- > Drawer size inside: W 570 x D 410 mm
- > 5 drawers - front height 83 mm
- > 2 drawers front height 155 mm
- > Drawers with anti-slip mat
- > Central locking with cylinder lock complete with 4 keys
- > Two swivel castors Ø 125 mm, with brake, two fixed castors



Code	No.	RAL	H	W	D		max. load capacity kg	
3301690	R20200007	3020 / 7016	1034	724	470	Drawers: 5x H = 83 mm 2x H = 155 mm	450	80.0

### SPARE PARTS/ACCESSORIES

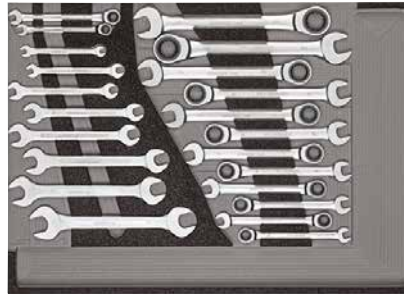
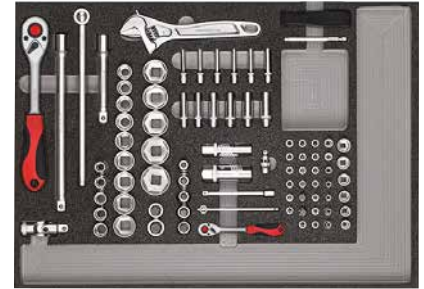
Code	No.	Description	
3301723	R20902005	Spare lock w. key f.WINGMAN	0.060
3301724	R20902006	Guide rails f. draw. f.WINGMAN	1.180
3301725	R20902007	Heavy load fixed castor f.works.trolley WINGMAN	1.300
3301820	R20902009	Swivel castor w.brake f.works.trolley WINGMAN	2,040
3301727	R20902008	Non-slip mat 565x405mm f.works. trolley	0.100
3301696	R20240003	Tool chest WINGMAN 3 drawers 446x724x470	39.000

# R22071004

## WORKSHOP TROLLEY WINGMAN WITH TOOL SET

129 pieces

- > Strong, sheet steel construction, torsionally rigid, designed to take heavy loads
- > Working platform with ABS top
- > Sides with square perforation for accessories, with paper roll holder, can holder and paper basket
- > Large manoeuvring handle on both sides
- > 7 drawers telescopically fully extendable with individual locking (one-hand operation)
- > The individual drawer locking stops more than one drawer being opened - provides for considerable stability
- > Load capacity 35 kg per drawer
- > Drawer size inside: W 570 x D 410 mm
- > 5 drawers - front height 83 mm
- > 2 drawers - front height 155 mm
- > Drawers with anti-slip mat
- > Central locking with cylinder lock complete with 4 keys
- > Two swivel castors Ø 125 mm, with brake, two fixed castors



Code	No.	RAL	H	W	D	Contents	max. load capacity kg	
3301694	R22071004	3020 / 7016	1034	724	470	R22350000 Tool set sockets, ratchet, accessories 1/4"-1/2" R22350005 Tool set screwdrivers, pliers, hammer, chisel R22350006 Tool set ratchet wrenches, double open-ended spanner	Drawers: 5x H = 83 mm 2x H = 155 mm	450 93.6

# R20240003

## TOOL CHEST WINGMAN

with 3 drawers

- > Combinable with the WINGMAN workshop trolley
- > Strong, sheet steel construction, torsionally rigid, designed to take heavy loads
- > Large carrying handles on either side
- > 3 drawers with telescopic full extension and individual locking device (single-hand operation)
- > The individual drawer locking stops more than one drawer being opened - provides for considerable stability
- > Load capacity 35 kg per drawer
- > Drawer size inside: W 570 x D 410 mm
- > 3 drawers front height 83 mm
- > Drawers with anti-slip mat
- > Generous storage under lid, lid with brake, opening angle 90 degrees, usable as work surface
- > Compartment size: W 520 x D 400 x H 70 mm
- > Central locking with cylinder lock, supplied with two keys
- > Can holders on either side
- > Without tools



Code	No.	RAL	H	W	D	max. load capacity kg	
3301696	R20240003	3020 / 7016	446	724	470	Drawers: 3x H 83 mm Compartment: H 70 x W 520 x D 400 mm	130 39.0

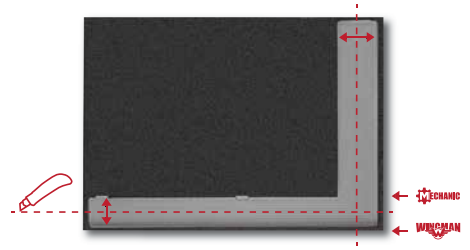
# TOOL MODULES

038 - 051



# Foam modules are customisable

- > All shown foam modules are customisable to all common workshop trolleys.
- > Simply cut to the desired size: W 485 - 570 mm, D 345 - 410 mm, H up to 70 mm

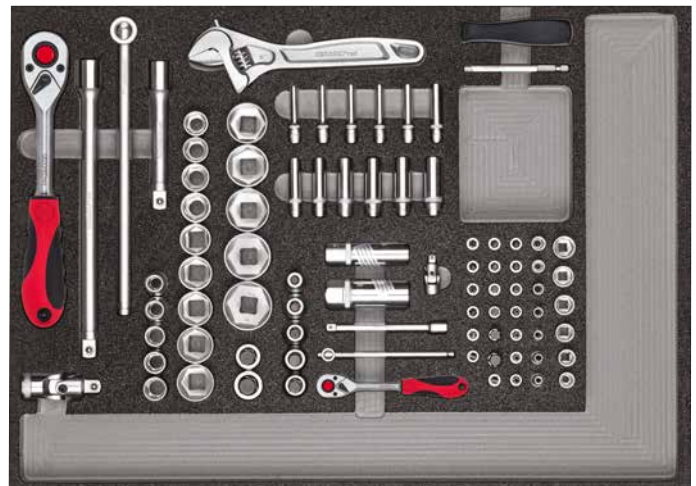


## R2235 0000 SOCKET SET 1/4" + 1/2" AND ACCESSORIES

in the 3/3 foam module, 87 pieces



- > Coupler in acc. with DIN 3120, ISO 1174, with ball locking device
- > Square drive acc. to DIN 3120, ISO 1174, with ball retention groove
- > **2C Reversible ratchet:** Lever for reversible right and left hand operation, push button release, fine-toothed, oval head, dual-material handle, hands-friendly transfer of force, for sockets
- > **Square plug-in handle 1/4":** 1-component handle with in-hex
- > **Socket 1/4" + 1/2":** hex, metric, short and long type based on DIN 3124, ISO 2725
- > Spark plug socket 1/2" with pressed-in holding rubber
- > Spark plug socket 1/2" with pressed-in holding rubber and additional drive hex AF 24
- > **Screwdriver bit socket 1/4" + 1/2" for in-hex screws:** Pressed-in, phosphated pin
- > **Screwdriver bit socket 1/4" slotted:** Pressed-in, phosphated pin
- > **Screwdriver bit socket 1/4" PZ:** Pressed-in, phosphated pin
- > **Screwdriver bit socket 1/4" PZ:** Pressed-in, phosphated pin
- > **Screwdriver bit socket 1/4" TX with drill hole:** Pressed-in, phosphated pin
- > **Sliding T-handle with slide 1/4" + 1/2":** Acc. to DIN 3122, ISO 3315
- > Socket extension 1/4" + 1/2"
- > **Universal joint 1/4" + 1/2":** Joint bolted on, design to DIN 3123 - C 12.5
- > **Adjustable spanner:** 15° jaw position, polished head with lasered scale
- > For hand-operated bolting operations
- > Chrome-vanadium steel, matt satin chrome-plated

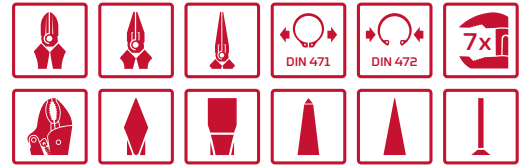


Code	No.	Contents	W	D	pieces	kg
3301681	R22350000	1/4" 2C lever reversible ratchet, fine-tooth, 72 teeth   150 mm 1/4" square plug-in handle 165 mm 1/4" socket hexagon 4 4.5 5 5.5 6 7 8 9 10 11 12 13 14 1/4" socket hexagon 4 4.5 5 5.5 6 7 8 9 10 11 12 13 50 1/4" screwdriver bit socket in-hex 3 4 5 6 8 10   37 mm 1/4" screwdriver bit socket slotted 5.5 6.5   37 mm 1/4" screwdriver bit socket cross-slotted PH 1 2 3   37 mm 1/4" screwdriver bit socket cross-head PZ 1 2   37 mm 1/4" socket TX with hole T10 T15 T20 T25 T27 T30 T40   37 mm 1/4" socket extension 100 mm 1/4" sliding T-handle with slide   115 mm 1/4" universal joint   32 mm 1/2" 2C lever reversible ratchet, fine-tooth, 72 teeth   250 mm 1/2" socket hexagon 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 30 32 1/2" screwdriver bit socket in-hex 6 7 8 9 10 12 14   55 mm 1/2" spark plug socket 16 21 mm   65 mm 1/2" socket extension 125 250 mm 1/2" sliding T-handle with slide   250 mm 1/2" universal joint   66 mm Adjustable spanner 8" 200 mm	570	410	84	5.9

# R2235 0001

## PLIERS, HAMMER, CHISEL SET

in the 3/3 foam module, 29 pieces



- > **Bent nose telephone pliers, straight:** To DIN ISO 5745, straight gripping surfaces, lengthways-serrated, inductively hardened cutting edges, dual-material handle, chrome-vanadium steel
- > **Side cutters:** To DIN ISO 5749, slender head, inductively hardened, long cutting edges, dual-material handle, chrome-vanadium steel
- > **Internal circlip pliers, straight and angled:** To DIN 5256, precision tips, DIN 472 for retaining rings, DIN 984, dip-insulated handles, chrome vanadium steel
- > **External circlip pliers, straight and angled:** To DIN 5254, precision tips, DIN 471 for retaining rings, DIN 983, dipped handle protectors, chrome vanadium steel
- > **Clamp locking plier:** Lengthways-serrated grip surfaces, setting screw and release lever, one-hand operation, surface chrome-plated, chrome vanadium steel
- > **Combination pliers:** To DIN ISO 5746, gripping zones for flat and round material, inductively hardened cutting edge, dual-material handle, special tool steel, forged
- > **Water pump pliers:** To DIN 8976, lengthways-serrated grip surfaces, box joint, 7 settings, head and box polished, chrome-vanadium steel, powder-coated
- > **Engineers' hammer:** Forged hammer head of tempered steel, inductively hardened striking surfaces, to DIN 1041, ash handle, paint-coated shaft end, ring wedge
- > **Flat chisel:** To DIN 6453, cutting edge and head ground, impact end tempered, chrome-vanadium steel
- > **Cross-cut chisel:** To DIN 6451, cutting edge, sides and head ground, impact end tempered, chrome-vanadium steel
- > **Centre punch:** To DIN 7250, impact end annealed, chrome-vanadium steel
- > **Pin punch:** To DIN 6450, impact end annealed, chrome-vanadium steel,
- > **Feeler gauge set:** Protective handle, folding, blades tapering to a cone, of hardened spring steel



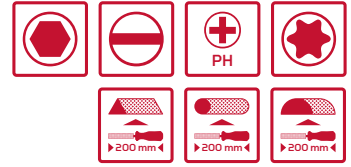
Code	No.	Contents	W	D	pieces	kg
3301682	R22350001	Circlip pliers, external, straight 19-60 mm Circlip pliers, external, angled 19-60 mm Circlip pliers, internal, straight 19-60 mm Circlip pliers, internal, angled 19-60 mm Feeler gauge set, 13 pcs Clamp locking plier 10"   225 mm Combination plier 180 mm Telephone pliers, straight pattern 160 mm Side cutter 160 mm Water pump pliers 10"   250 mm Engineers' hammer 300 g Flat cold chisel 125 mm, 150 mm Cross-cut chisel 125 mm Centre punch 4 mm   120 mm Pin punch 4 mm   120 mm Drift punch 3 mm   150 mm	570	410	29	3.1



# R2235 0002

## SCREWDRIVER AND FILE SET

in the 3/3 foam module, 26 pieces



- > **2C screwdriver slotted:** To DIN 5264, high-grade chrome-molybdenum steel blade, chrome-plated, phosphated driven tip, dual-material handle, hands-friendly transfer of force, 5-edge grip head, elongated hole in handle
- > **2C screwdriver PH:** To DIN 8764, high-grade chrome-molybdenum steel blade, chrome-plated, phosphated driven tip, dual-material handle, 5-edge grip head, elongated hole in handle
- > **2C screwdriver TX:** Chrome-molybdenum steel blade, chrome-plated, phosphated driven tip, dual-material handle, 5-edge grip head, elongated hole in handle
- > **Phase tester:** Max. 250 volt, black gun-metal tip, red plastic jacket, anti-slip handle surface, synthetic clip, to DIN 0680-6:1977-04
- > **Bit screwdriver:** Dual-material handle, hex recess drive to DIN 3126 - D 6.3 (1/4") for bits, magnet, elongated hole in the handle, chrome-vanadium steel
- > **Hexagon socket key set:** To DIN ISO 2936, hardened throughout, chrome-vanadium steel, phosphated, in holder
- > **Files:** To DIN 7261, dual-material handle, file-cut 2, file length 200 mm, total length 310 mm, hole for hanging up



Code	No.	Contents	W	D	pieces	
3301683	R22350002	Screwdriver slotted 4 5.5 6.5 8 mm Screwdriver cross-slotted PH 1 2 Screwdriver TX T10 T15 T20 T25 T30 T40 Voltage tester 3 mm   135 mm Bit screwdriver 1/4" Hexagon socket key set, 9 pcs, 1.5 2.2 5 3 4 5 6 8 10 mm Half-round file 310 mm Three-edged file 310 mm Round file 310 mm	570	410	26	2.0


# R2235 0004

## MEASURING AND CUTTING TOOLS SET

in the 3/3 foam module, 30 pieces

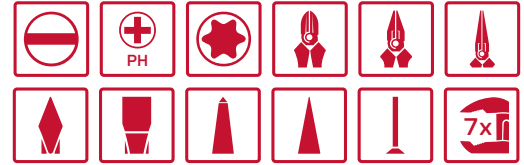
- > **Multifunction saw:** Rotating saw blade and frame, hand protector, dual-material handle, delivered with HSS bi-metal saw blade (24 tpi)
- > **Digital measuring calliper:** LCD display, reset setting, precision roller adjustment, mm/inch changeover, ground tips, in box incl. spare battery, operating instructions, PC interface, locking screw, thread table on the back
- > **Heavy-duty utility knife:** Multi-component handle, aluminium, rapid-change mechanism, 1 trapezoid blade and 4 spare trapezoid blades, rugged design
- > **Tape measure:** ABS dual-material housing, clip, nylon-coated tape, mm-graduation, with tape rewind and lock, magnetic stop, Accuracy Class II
- > **(De)magnetizer:** Magnetizer for bolting and gripping tools, demagnetizer for tools
- > **Spirit level:** Smooth aluminium rectangular profile, two acrylic vials, measurement accuracy: +/- 0.5 mm/m, powder-coated, impact-resistant end cap
- > **Wood sectioned folding ruler:** Metric dual scale, Accuracy Class III, EC-design approval for continuous mm division, beech wood with through-riveted joints
- > **Blue pencil:** Oval form
- > **Carbide scriber:** Pencil and carbide scriber in one, straight form, retractable nib, metal housing, attaching clip
- > **LED torch:** Aluminium housing, batteries (3x AAA) supplied, loop, 2 brightness settings and additional warning/signal function, 1 W LED, 55-60 lm luminous flux, 25-30 m light range, subject to technical changes



Code	No.	Contents	W	D	pieces	
3301685	R22350004	Digital measuring calliper Heavy-duty utility knife with 4 spare blades 175 mm Tape measure 3 m (De)magnetizer Multifunction saw 300 mm Spirit level 300 mm Wood sectioned folding ruler 2 m Blue pencil 175 mm Carbide scriber 145 mm LED torch 130 mm	570	410	30	2.5

**R2235 0005****SCREWDRIVER, PLIERS,  
HAMMER AND CHISEL SET**

in the 3/3 foam module, 23 pieces



- > **Combination pliers:** To DIN ISO 5746, gripping zones for flat and round material, inductively hardened cutting edges, dual-material handle, chrome-vanadium steel
- > **Side cutters:** To DIN ISO 5749, slender head, inductively hardened, long cutting edges, dual-material handle, chrome-vanadium steel
- > **Bent nose telephone pliers, straight:** To DIN ISO 5745, straight gripping surfaces, lengthways-serrated, inductively hardened cutting edges, dual-material handle, chrome-vanadium steel
- > **Water pump pliers:** To DIN 8976 Form C, lengthways-serrated gripping surfaces, box joint, 7 settings, chrome vanadium steel, powder-coated
- > **2C screwdriver:** Slot and cross-slotted PH, to DIN, high-grade chrome-molybdenum steel blade, chrome-plated, phosphated driven tip, dual-material handle, 5-edge grip head, elongated hole in handle
- > **2C screwdriver TX:** High-grade chrome-molybdenum steel blade, chrome-plated, phosphated driven tip, dual-material handle, 5-edge grip head, elongated hole in handle
- > **Engineers' hammer:** Forged hammer head of tempered steel, inductively hardened striking surfaces, to DIN 1041, ash handle, paint-coated shaft end, ring wedge
- > **Flat chisel:** To DIN 6453, cutting edge and head ground, impact end tempered, chrome-vanadium steel
- > **Cross-cut chisel:** To DIN 6451, cutting edge, sides and head ground, impact end tempered, chrome-vanadium steel
- > **Hexagonal punch:** To DIN 6458, impact end annealed, chrome-vanadium steel
- > **Centre punch, hexagonal:** To DIN 7250, impact end annealed, chrome-vanadium steel
- > **Pin punch, octagonal:** To DIN 6450, impact end annealed, chrome-vanadium steel

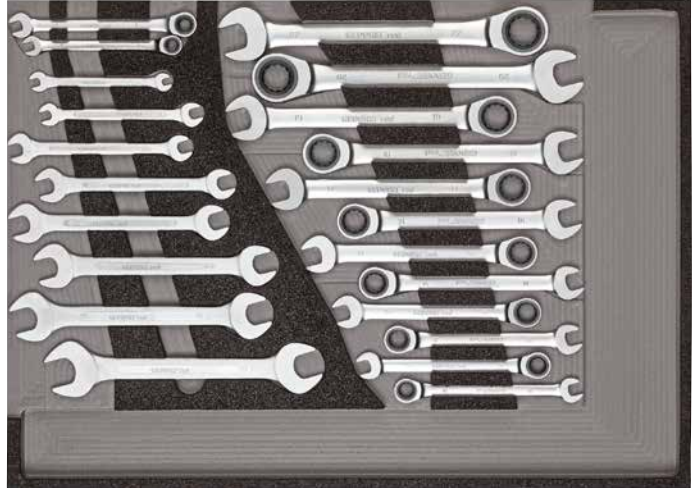



Code	No.	Contents	W	D	pieces	kg
3301686	R22350005	Combination plier 180 mm Side cutter 160 mm Bent nose telephone pliers, straight 200 mm Screwdriver slotted 3 4 5.5 6.5 mm Screwdriver cross-slotted PH 1 2 Screwdriver TX T10 T15 T20 T25 T30 T40 Water pump pliers 10", 250 mm Engineers' hammer 300 g Flat cold chisel 125 mm, 150 mm Cross-cut chisel 125 mm Centre punch 4 mm   120 mm Pin punch 4 mm   120 mm Drift punch 3 mm   150 mm	570	410	23	2.8

**R2235 0006****RATCHET WRENCH AND DOUBLE OPEN-ENDED SPANNER SET**

in the 3/3 foam module, 22 pieces

- > **Ratchet wrenches:** Based on DN 3113, ISO 3318, straight, 72-toothed ratchet mechanism, 5° working angle, 15° jaw position, surface matt satin plate-chromed, chrome-vanadium steel
- > **Double open-ended spanner:** To DIN 3110, ISO 3318, ISO 1085, ISO 10102, 15° jaw position, surface matt satin chrome-plated, chrome-vanadium steel




Code	No.	Contents	W	D	pieces	
<b>3301687</b>	R22350006	Ratchet wrench 8 9 10 11 12 13 14 15 16 17 18 19 20 22 mm Double open ended spanner 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 mm	570	410	22	3.4

**R2215 0000****DOUBLE-ENDED RING SPANNER SET**

in the 3/3 foam module, 8 pieces

- > Acc. to DIN 838, ISO 3318, ISO 1085, ISO 10104
- > 5° offset
- > Thin walled rings
- > Chrome-vanadium steel
- > Matt satin chrome-plated finish
- > In the foam module



Code	No.	Contents	W	D	pieces	
<b>3301697</b>	R22150000	Double-ended ring spanner 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 mm	157.5	310	8	1.600

**R2215 0001****DOUBLE OPEN-ENDED SPANNER SET**

in the 3/3 foam module, 8 pieces



- > Acc. to DIN 3110, ISO 3318, ISO 1085, ISO 10102
- > Jaw set at 15°
- > Matt satin chrome-plated finish
- > Chrome-vanadium steel
- > In the foam module



Code	No.	Contents	W	D	pieces	kg
3301698	R22150001	Double open ended spanner 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 mm	157.5	310	8	0.990

**R2225 0000****COMBINATION SPANNER SET  
AND HEXAGON SOCKET KEY SET**

in the 3/3 foam module, 26 pieces



- > **Combination spanner:** To DIN 3113, Form A ISO 3318, ISO 7738, ring side angled 15° jaw position, surface matt satin, chrome-plated
- > **Hexagon socket key set:** To DIN ISO 2936, hardened throughout, phosphated
- > Chrome-vanadium steel
- > In the foam module



Code	No.	Contents	W	D	pieces	kg
3301699	R22250000	Combination spanner 6 7 8 9 10 11 12 13 14 15 16 17 18 19 21 22 24 mm Hexagon socket key set, 9 pcs, 1.5 2 2.5 3 4 5 6 8 10 mm	315	310	26	2.232

## R2225 0001

### RATCHET WRENCH AND HEXAGON SOCKET KEY SET



in the 3/3 foam module, 24 pieces

- > **Ratchet wrenches:** Based on DIN 3113, ISO 3318, ring offset 15°, reversible for right and left-hand operation, 15° jaw position, surface matt satin chrome-plated
- > **Hexagon socket key set:** To DIN ISO 2936, hardened throughout, phosphated
- > Chrome-vanadium steel
- > In the foam module



Code	No.	Contents	W	D	pieces	
3301700	R22250001	Ratchet wrench 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 mm Hexagon socket key set, 9 pcs, 1.5 2 2.5 3 4 5 6 8 10 mm	315	310	24	3.297

## R2215 0002

### RATCHET WRENCH SET



in the 3/3 foam module, 9 pieces

- > Based on DIN 3113, ISO 3318
- > Ring offset to 15°, reversible for right and left hand operation
- > Jaw set at 15°
- > Matt satin chrome-plated finish
- > Chrome-vanadium steel
- > In the foam module



Code	No.	Contents	W	D	pieces	
3301701	R22150002	Ratchet wrench set 8 10 12 13 14 15 16 17 19 mm	157.5	310	9	1.430

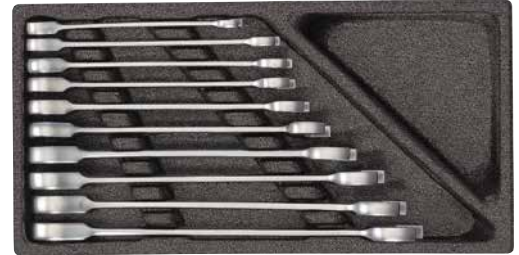
# R2215 0003

## RATCHET WRENCH SET



in the 3/3 foam module, 10 pieces

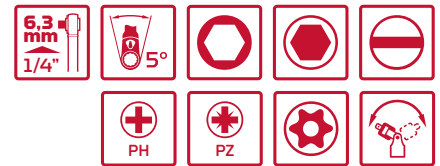
- > Based on DIN 3113, ISO 3318
- > Straight
- > Ratchet mechanism with 72 teeth
- > Working angle: 5°
- > Jaw set at 15°
- > Matt satin chrome-plated finish
- > Chrome-vanadium steel
- > In the foam module



Code	No.	Contents	W	D	pieces	kg
3301702	R22150003	Ratchet wrench set 8 10 12 13 14 15 16 17 18 19 mm	157.5	310	10	1.680

# R2215 0006

## SOCKET SET 1/4"



in the 3/3 foam module, 37 pieces

- > Coupler based on DIN 3120 - A 6.3, ISO 1174, with ball lock
- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retention groove
- > **2C reversible ratchet 1/4"**: Lever for reversible right and left hand operation, push button release, fine-toothed, oval head, dual-material handle
- > **Square plug-in handle 1/4"**: 1-component handle with in-hex
- > **Socket 1/4" hexagon**: Metric, short, to DIN 3124, ISO 2725
- > **Screwdriver bit socket 1/4" for in-hex screws**: Pressed-in, phosphated pin
- > **Screwdriver bit socket 1/4" slotted**: Pressed-in, phosphated pin
- > **Screwdriver bit socket 1/4" PZ**: Pressed-in, phosphated pin
- > **Screwdriver bit socket 1/4" PZ**: Pressed-in, phosphated pin
- > **Screwdriver bit socket 1/4" TX with drill hole**: Pressed-in, phosphated pin
- > Socket extension 1/4"
- > **Sliding T-handle with slide 1/4"**: Acc. to DIN 3122, ISO 3315
- > **Universal joint 1/4"**: Joint bolted on, design to DIN 3123 - C 6.3
- > Chrome-vanadium steel, matt satin chrome-plated
- > For hand-operated bolting operations
- > In the foam module



Code	No.	Contents	W	D	pieces	kg
3301705	R22150006	1/4" 2C lever reversible ratchet, fine-tooth, 72 teeth   150 mm 1/4" square plug-in handle 165 mm 1/4" socket hexagon 4 4.5 5 5.5 6 7 8 9 10 11 12 13 1/4" screwdriver bit socket in-hex 3 4 5 6 8 10   37 mm 1/4" screwdriver bit socket slotted 5.5 6.5   37 mm 1/4" screwdriver bit socket cross-slotted PH 1 2 3   37 mm 1/4" screwdriver bit socket cross-head PZ 1 2   37 mm 1/4" socket TX with hole T10 T15 T20 T25 T27 T30 T40   37 mm 1/4" socket extension 100 mm 1/4" sliding T-handle with slide   115 mm 1/4" universal joint   32 mm	157.5	310	37	0.870

## R2215 0008 RATCHET WITH ACCESSORIES 1/2"



in the 3/3 foam module, 5 pieces

- > Coupler in acc. with DIN 3120, ISO 1174, with ball locking device
- > Square drive acc. to DIN 3120, ISO 1174, with ball retention groove
- > **2C reversible ratchet 1/2"**: To DIN 3120 - A 12.5, ISO 1174, lever for right and left-hand operation, push button release, fine-toothed, oval form, dual-material handle
- > Socket extension 1/2"
- > **Universal joint 1/2"**: Joint bolted on, design to DIN 3123 - C 12.5
- > Chrome-vanadium steel, matt satin chrome-plated
- > For hand-operated bolting operations
- > In the foam module



Code	No.	Contents	W	D	pieces	
3301707	R22150008	1/2" 2C lever reversible ratchet, fine-tooth, 72 teeth   250 mm 1/2" socket extension 125 250 mm 1/2" sliding T bar with slide 250 mm 1/2" universal joint   66 mm	157.5	310	5	1.880

## R2215 0009 SOCKET SET 1/2"



in the 3/3 foam module, 26 pieces

- > Square drive acc. to DIN 3120, ISO 1174, with ball retention groove
- > **Socket, hex:** Metric, short, to DIN 3124, ISO 2725
- > **Screwdriver bit socket 1/2" for in-hex screws:** Pressed-in, phosphated pin
- > Chrome-vanadium steel, matt satin chrome-plated
- > For hand-operated bolting operations
- > In the foam module



Code	No.	Contents	W	D	pieces	
3301708	R22150009	1/2" socket hexagon 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 30 32 1/2" screwdriver bit socket in-hex 6 7 8 9 10 12 14   55 mm	157.5	310	26	1.700

## R2215 0011 SCREWDRIVER BIT SOCKET SET 1/2"



in the 3/3 foam module, 15 pieces

- > Square drive acc. to DIN 3120, ISO 1174, with ball retention groove
- > **Screwdriver bit socket 1/2" for in-hex screws:** Pressed-in, phosphated pin
- > Chrome-vanadium steel, matt satin chrome-plated
- > For hand-operated bolting operations
- > In the foam module



Code	No.	Contents	W	D	pieces	
3301710	R22150011	Screwdriver bit socket in-hex, 5 6 7 8 9 10 12 14 17   55 mm Screwdriver bit socket in-hex, 5 6 8   80 mm Screwdriver bit socket in-hex, 10 12 14   140 mm	157.5	310	15	2.124



## R2215 0012

### IMPACT SOCKET SET 1/2"



in the 3/3 foam module, 14 pieces

- > Square drive as per DIN 3121 - G 12.5, ISO 1174
- > Acc. to DIN 3129, ISO 2725-2
- > Machine-operated, fixing with safety ring / pin
- > Surface phosphated
- > Chrome-molybdenum steel
- > In the foam module



Code	No.	Contents	W	D	pieces	
3301711	R22150012	Impact socket 10 11 12 13 14 15 16 17 19 21 22 24   78 mm Safety ring and pin (1 each)	157.5	310	14	2.840

## R2215 0013

### SCREWDRIVER SET



in the 3/3 foam module, 6 pieces

- > Blades of high-grade chrome-molybdenum steel, chrome-plated
- > Driven tips phosphated, corrosion-protected and low-wear
- > Moulded handles form a firm unit with the blades
- > 2 dual-material handles for a hands-friendly transfer of force
- > 5-edge handle heads stop them rolling off when put down
- > Elongated holes in the handle for hanging up
- > In the foam module



Code	No.	Contents	W	D	pieces	
3301712	R22150013	Screwdriver slotted 4 5.5 6.5 8 mm Screwdriver cross-slotted PH 12	157.5	310	6	0.854

## R2215 0014

### SCREWDRIVER SET



in the 3/3 foam module, 6 pieces

- > Blades of high-grade chrome-molybdenum steel, chrome-plated
- > Driven tips phosphated, corrosion-protected and low-wear
- > Moulded handles form a firm unit with the blades
- > 2 dual-material handles for a hands-friendly transfer of force
- > 5-edge handle heads stop them rolling off when put down
- > Elongated holes in the handle for hanging up
- > In the foam module



Code	No.	Contents	W	D	pieces	
3301713	R22150014	Screwdriver slotted 4 5.5 6.5 8 mm Screwdriver cross-slotted PZ 12	157.5	310	6	0.820

## R2215 0015

### SCREWDRIVER SET TX



in the 3/3 foam module, 6 pieces

- > Blades of high-grade chrome-molybdenum steel, chrome-plated
- > Driven tips phosphated, corrosion-protected and low-wear
- > Moulded handles form a firm unit with the blades
- > 2 dual-material handles for a hands-friendly transfer of force
- > 5-edge handle heads stop them rolling off when put down
- > Elongated holes in the handle for hanging up
- > In the foam module



Code	No.	Contents	W	D	pieces	
3301714	R22150015	Screwdriver TX T10 T15 T20 T25 T30 T40	157.5	310	6	0.800

## R2215 0016

### VDE SCREWDRIVER SET



in the 3/3 foam module, 6 pieces

- > **For slotted head screws:** Acc. to DIN 5264, DIN ISO 2380
- > **For cross-head screws PH:** Acc. to DIN 7438, DIN ISO 8764
- > VDE-insulated acc. to DIN EN 60900
- > Guaranteed protection for working under voltage up to 1000V AC (alternating current) and 1500V DC (direct current)
- > Blade of high-grade chrome-molybdenum steel
- > Driven tip phosphated, corrosion-protected and low-wear
- > Dual-material handle, for easy handling
- > Moulded handle forms a firm unit with the blade
- > 5-edge handle head stops it rolling off when put down
- > Elongated hole in the handle for hanging up
- > In the foam module



Code	No.	Contents	W	D	pieces	
3301715	R22150016	VDE Screwdriver slotted 2.5 3 4 5.5 mm VDE Screwdriver cross-head PH 1 2	157.5	310	6	0.680

## R2215 0017

### RETAINING RING PLIERS SET



in the 3/3 foam module, 4 pieces

- > To DIN 5254 Form A, straight precision tips, opening spring, DIN 471 for retaining rings, DIN 983 for shaft diameter
- > To DIN 5254 Form B, 90° angled precision tips, opening spring, DIN 471 for retaining rings, DIN 983 for shaft diameter
- > To DIN 5256 Form C, straight precision tips, opening spring, DIN 472 for retaining rings, DIN 984 for shaft diameter
- > To DIN 5256 Form D, 90° angled precision tips, DIN 472 for retaining rings, DIN 984 for drill hole diameter
- > Dipped handle protectors
- > Chrome-vanadium steel
- > In the foam module



Code	No.	Contents	W	D	pieces	
3301716	R22150017	Circlip pliers for external retaining rings, straight 19-60 mm Circlip pliers for external retaining rings, angled 19-60 mm Circlip pliers for internal retaining rings, straight 19-60 mm Circlip pliers for internal retaining rings, angled 19-60 mm	157.5	310	4	1.136

## R2215 0018

### PLIERS SET



in the 3/3 foam module, 4 pieces

- > **Water pump pliers:** To DIN 8976 Form C, lengthways-serrated gripping surfaces, box joint, 7 settings, chrome vanadium steel, powder-coated
- > **Combination pliers:** To DIN ISO 5746, inductively hardened cutting edges, dual-material handle, forged
- > **Bent nose telephone pliers:** To DIN ISO 5745, straight gripping surfaces, lengthways-serrated, inductively hardened cutting edges, dual-material handle, forged
- > **Side cutters:** To DIN ISO 5749, slender head, inductively hardened, long cutting edges, dual-material handle, forged
- > In the foam module



Code	No.	Contents	W	D	pieces	
3301717	R22150018	Water pump pliers 10"   250 mm Combination pliers 180 mm Bent nose telephone pliers, straight 160 mm Side cutter 160 mm	157.5	310	4	1.238

## R2215 0019

### HAMMER AND CHISEL SET



in the 3/3 foam module, 7 pieces

- > **Engineers' hammer:** Forged hammer head of tempered steel, inductively hardened striking surfaces, to DIN 1041, ash handle, paint-coated shaft end, ring wedge
- > **Flat cold chisel, flat oval:** To DIN 6453, cutting edge and head ground, impact end tempered, chrome-vanadium steel
- > **Cross-cut chisel, flat oval:** To DIN 6451, cutting edge, sides and head ground, impact end tempered, chrome-vanadium steel
- > **Hexagonal punch:** To DIN 6458, impact end annealed, chrome-vanadium steel
- > **Centre punch, hexagonal:** To DIN 7250, impact end annealed, chrome-vanadium steel
- > **Pin punch, octagonal:** To DIN 6450, impact end annealed, chrome-vanadium steel
- > In the foam module



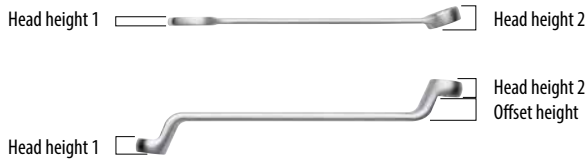
Code	No.	Contents	W	D	pieces	
3301718	R22150019	Engineers' hammer 300 g Flat cold chisel 125 mm   150 mm Cross-cut chisel 125 mm Centre punch 4 mm   120 mm Pin punch 4 mm   120 mm Drift punch 3 mm   150 mm	157.5	310	7	1.222

# RATCHET SPANNERS

052 - 065



## Legend



## Ratchet spanners

# R0710XXXX COMBINATION RATCHET SPANNER



metric

- > Based on DIN 3113, ISO 3318
- > Straight
- > Jaw set at 15°
- > Matt satin chrome-plated finish
- > Chrome-vanadium steel



Code	No.	Ø mm	Overall length	Head height 1	Head height 2	Head width 1	Head width 2	∠°	Number of teeth	kg
3300828	R07100080	8	136.0	5.1	7.0	18.0	17.5	5	72	0.047
3300829	R07100090	9	143.0	5.4	7.6	20.0	19.3	5	72	0.065
3300830	R07100100	10	160.0	5.8	7.7	22.0	21.0	5	72	0.066
3300831	R07100110	11	168.0	6.1	8.3	24.5	22.7	5	72	0.077
3300832	R07100120	12	174.0	6.4	8.7	26.5	24.0	5	72	0.085
3300833	R07100130	13	180.0	6.7	9.3	27.6	26.0	5	72	0.100
3300834	R07100140	14	193.0	7.4	9.4	31.4	27.7	5	72	0.110
3300835	R07100150	15	200.0	7.7	10.0	33.4	29.0	5	72	0.149
3300836	R07100160	16	216.0	8.1	10.6	34.6	30.7	5	72	0.180
3300837	R07100170	17	233.0	8.8	10.9	38.4	33.0	5	72	0.200
3300838	R07100180	18	239.0	9.0	11.2	39.9	33.7	5	72	0.220
3300839	R07100190	19	250.0	9.5	11.5	41.5	34.8	5	72	0.248
3300840	R07100200	20	285.0	10.2	13.0	45.8	42.0	5	72	0.410
3300841	R07100210	21	285.0	10.2	13.0	45.8	42.0	5	72	0.412
3300842	R07100220	22	285.0	10.2	13.0	45.8	42.0	5	72	0.402
3300843	R07100240	24	325.0	11.0	14.5	51.5	47.5	5	72	0.504
3300844	R07100270	27	359.0	12.5	15.0	55.2	52.0	5	72	0.640
3300845	R07100300	30	425.0	13.8	17.0	65.0	60.0	5	72	1.190
3300846	R07100320	32	425.0	13.8	17.0	65.0	60.0	5	72	1.150
3300848	R07100360	36	482.0	16.6	19.6	76.2	65.5	5	72	1.757

# R0710 XXXX COMBINATION RATCHET SPANNER SET



metric

- > Based on DIN 3113, ISO 3318
- > Straight
- > Ratchet mechanism with 72 teeth
- > Working angle 5°
- > Jaw set at 15°
- > Matt satin chrome-plated finish
- > Chrome-vanadium steel
- > In the holder



Code	No.	Contents	pieces	kg
3300849	R07105005	8 10 13 17 19 mm	5	0.699
3300850	R07105012	8 9 10 11 12 13 14 15 16 17 18 19 mm	12	1.569

# R0720XXXX

## COMBINATION RATCHET SPANNER



reversible, metric

- > Based on DIN 3113, ISO 3318
- > Ring offset to 15°, reversible for right and left hand operation
- > Jaw set at 15°
- > Matt satin chrome-plated finish
- > Chrome-vanadium steel



Code	No.	Ø mm	Overall length	Head height 1	Head height 2	Head width 1	Head width 2	°	Number of teeth	🔁
3300851	R07200080	8	135	5.1	7.7	18.5	17.7	5	72	0.042
3300852	R07200090	9	142	5.3	7.7	20.5	19.1	5	72	0.070
3300853	R07200100	10	158	5.8	8.2	22.5	21.2	5	72	0.070
3300854	R07200110	11	167	5.9	8.2	25.0	22.6	5	72	0.080
3300855	R07200120	12	173	6.1	8.8	26.9	23.8	5	72	0.080
3300856	R07200130	13	179	6.6	8.9	29.0	25.9	5	72	0.101
3300857	R07200140	14	189	7.5	9.3	31.5	27.7	5	72	0.116
3300858	R07200150	15	199	7.9	9.4	34.0	29.2	5	72	0.150
3300859	R07200160	16	215	7.9	9.9	35.7	31.8	5	72	0.171
3300860	R07200170	17	232	8.0	10.6	38.3	34.1	5	72	0.197
3300861	R07200180	18	238	8.5	11.0	40.1	34.0	5	72	0.219
3300862	R07200190	19	247	8.9	11.2	42.0	35.1	5	72	0.250
3300863	R07200200	20	285	10.3	13.0	45.3	41.5	5	72	0.400
3300864	R07200210	21	285	10.3	13.0	45.3	41.5	5	72	0.401
3300865	R07200220	22	285	10.3	13.0	45.3	41.5	5	72	0.400
3300866	R07200240	24	325	10.8	14.5	52.0	47.0	5	72	0.500
3300867	R07200270	27	359	12.5	15.0	58.6	52.0	5	72	0.650
3300868	R07200300	30	425	13.0	17.0	64.5	59.5	5	72	1.140
3300869	R07200320	32	425	13.0	17.0	64.5	59.5	5	72	1.140
3300871	R07200360	36	482	15.8	19.6	75.7	65.0	5	72	1.671

# R0720XXXX

## COMBINATION RATCHET SPANNER SET



reversible, metric

- > Based on DIN 3113, ISO 3318
- > Ring offset to 15°, reversible for right and left hand operation
- > Ratchet mechanism with 72 teeth
- > Working angle 5°
- > Jaw set at 15°
- > Matt satin chrome-plated finish
- > Chrome-vanadium steel
- > In the holder



Code	No.	Contents	pieces	🔁
3300872	R07205005	8 10 13 17 19 mm	5	0.688
3300873	R07205012	8 9 10 11 12 13 14 15 16 17 18 19 mm	12	1.576

# R07203012

## COMBINATION RATCHET SPANNER SET



with adapters, metric, 12 pieces

- > Based on DIN 3113, ISO 3318
- > Ring offset to 15°, reversible for right and left hand operation
- > Ratchet mechanism with 72 teeth
- > Working angle 5°
- > Jaw set at 15°
- > Matt satin chrome-plated finish
- > Chrome-vanadium steel
- > In rugged plastic case



Code	No.	Contents	pieces	kg
3300059	R07203012	Combination ratchet spanners 8 10 12 13 15 17 18 19 mm Square end drive adapter 1/4" for Size 10 mm, 3/8" for Size 13 mm, 1/2" for Size 19 mm Bit adaptor 1/4" for Size 10mm	12	15.680

# R07203016

## COMBINATION RATCHET SPANNER SET



with adapters, metric, 16 pieces

- > Based on DIN 3113, ISO 3318
- > Ring offset to 15°, reversible for right and left hand operation
- > Ratchet mechanism with 72 teeth
- > Working angle 5°
- > Jaw set at 15°
- > Matt satin chrome-plated finish
- > Chrome-vanadium steel
- > In rugged plastic case



Code	No.	Contents	pieces	kg
3300060	R07203016	Combination ratchet spanners 8 9 10 11 12 13 14 15 16 17 18 19 mm Square end drive adapter 1/4" for Size 10 mm, 3/8" for Size 13 mm, 1/2" for Size 19 mm Bit adaptor 1/4" for Size 10mm	16	10.000

## R05905010

### OPEN RATCHET SPANNER WITH FLARE RING END SET



metric, 10 pieces

- > Based on DIN 3113, ISO 3318
- > Straight
- > Open end with ratchet function
- > Jaw set at 15°
- > Ring side open, offset to 15°
- > Matt satin chrome-plated finish
- > Chrome-vanadium steel
- > In the holder



Code	No.	Contents	pieces	
3301003	R05905010	10 11 12 13 14 15 16 17 18 19 mm	10	1.758

## R47001004

### SQUARE DRIVE ADAPTER SET



for ratchet spanner, 4 pieces

- > For secure connection of ratchet wrench and socket
- > Push-button release
- > Square drive in acc. with DIN 3120, ISO 1174, with ball locking device
- > Bit holder with hexagon drive in acc. with DIN 3126 - C 6.3 (1/4")
- > Matt chrome-plated
- > Chrome-vanadium steel



Code	No.	Contents	pieces	
3300061	R47001004	External hex 19 mm x external sq. 1/2" for sockets External hex 13 mm x external sq. 3/8" for sockets External hex 10 mm x external sq. 1/4" for sockets External hex 10 mm x in-hex 1/4" for all 1/4" bits	4	0.100

## R0730XXXX

### FLEXIBLE HEAD COMBINATION RATCHET SPANNER



metric

- > Based on DIN 3113, ISO 3318
- > With 180° swivel head
- > Jaw set at 15°
- > Matt satin chrome-plated finish
- > Chrome-vanadium steel



Code	No.	Ø mm	Overall length	Head height 1	Head height 2	Head width 1	Head width 2	∠ °	Number of teeth	
3300874	R07300080	8	136	5.5	7.0	17.1	17.5	5	72	0.050
3300876	R07300100	10	160	6.1	7.7	21.3	21.0	5	72	0.080
3300879	R07300130	13	180	7.0	9.3	26.8	26.0	5	72	0.120
3300883	R07300170	17	233	8.3	10.9	37.0	32.6	5	72	0.330
3300885	R07300190	19	250	9.0	11.5	40.2	34.8	5	72	0.289
3300889	R07300240	24	325	11.5	14.5	52.3	47.9	5	72	0.560



## R07305005

### FLEXIBLE HEAD COMBINATION RATCHET SPANNER SET



metric, 5 pieces

- > Based on DIN 3113, ISO 3318
- > With 180° swivel head
- > Ratchet mechanism with 72 teeth
- > Working angle 5°
- > Jaw set at 15°
- > Matt satin chrome-plated finish
- > Chrome-vanadium steel
- > In the holder



Code	No.	Contents	pieces	kg
3300890	R07305005	8 10 13 17 19 mm	5	1.158

## R0740XXXX

### DOUBLE BOX RATCHET WRENCHES



straight, metric

- > Based on DIN 3113, ISO 3318
- > Straight
- > Jaw set at 15°
- > Matt satin chrome-plated finish
- > Chrome-vanadium steel



Code	No.	mm	Overall length	Head height 1	Head height 2	Head width 1	Head width 2	°	Number of teeth	kg
3300891	R07400809	8 x 9	128.0	7.0	7.7	21.0	17.5	5	72	0.060
3300892	R07400810	8 x 10	128.0	7.0	7.7	21.0	17.5	5	72	0.060
3300893	R07401011	10 x 11	150.0	7.7	8.3	22.7	21.0	5	72	0.080
3300894	R07401213	12 x 13	170.0	8.7	9.3	26.0	24.0	5	72	0.110
3300895	R07401415	14 x 15	190.0	9.4	10.0	30.7	27.7	5	72	0.150
3300896	R07401618	16 x 18	230.0	10.6	11.2	34.8	32.6	5	72	0.200
3300897	R07401719	17 x 19	230.0	10.9	11.5	34.8	32.6	5	72	0.220

## R07405006

### DOUBLE BOX RATCHET WRENCH SET



straight, metric, 6 pieces

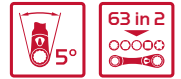
- > Based on DIN 3113, ISO 3318
- > Straight
- > Ratchet mechanism with 72 teeth
- > Working angle 5°
- > Jaw set at 15°
- > Matt satin chrome-plated finish
- > Chrome-vanadium steel
- > In the holder



Code	No.	Contents	pieces	kg
3300898	R07405006	8x9 10x11 12x13 14x15 16x18 17x19 mm	6	0.865

# R07501002

## DOUBLE BOX RATCHET WRENCH SET



reversible, metric, 2 pieces

- > 63 in 2
- > Straight
- > With lever change
- > Ratchet mechanism with 72 teeth
- > Working angle 5°
- > Matt satin chrome-plated finish
- > Chrome-vanadium steel



Code	No.	Contents	pieces	
3300900	R07501002	hex/double hex 5/16 3/8 7/16 1/2 9/16 5/8 11/16 3/4" SPLINE, hex, bi-hex 8 10 11 13 14 16 17 19 mm TX E10 E12 E14 E16 E18 E20 E22 E24 square 9/32 11/32 3/8 7/16 15/32 17/32 9/16 5/8" square 7 9 11 12 13 14 16 mm	2	0.398

# R07501019

## DOUBLE BOX RATCHET WRENCH



reversible, metric

- > The four most common sizes in one tool:  
10, 13, 17, 19 mm
- > Straight
- > With lever change
- > Matt satin chrome-plated finish
- > Chrome-vanadium steel



Code	No.	Overall length	Head height 1	Head height 2	Head width 1	Head width 2		Number of teeth	
3300899	R07501019	210	9.8	12.2	26.5	35.6	5	72	0.210

## Double ring spanner

# R0110XXXX

## DOUBLE RING SPANNER



metric

- > Acc. to DIN 838, ISO 3318, ISO 1085, ISO 10104
- > 5° offset
- > Thin walled rings
- > Chrome-vanadium steel
- > Matt satin chrome-plated finish



Code	No.	Ø mm	↳ mm ↲	Head height 1	Head height 2	Head width 1	Head width 2	Offset height	kg
3300901	R01100607	6 x 7	175	5.0	5.8	10.5	11.4	19.0	0.055
3300902	R01100809	8 x 9	185	6.0	7.0	13.4	14.8	21.0	0.070
3300904	R01101011	10 x 11	198	7.4	8.4	16.4	17.9	23.0	0.090
3300906	R01101213	12 x 13	215	8.4	9.1	19.5	20.6	25.0	0.115
3300908	R01101415	14 x 15	228	9.5	10.4	22.2	23.0	25.0	0.150
3300909	R01101617	16 x 17	246	10.0	10.8	24.5	26.0	27.0	0.190
3300910	R01101719	17 x 19	268	10.8	12.1	26.4	28.4	30.0	0.235
3300911	R01101819	18 x 19	268	10.8	12.1	27.5	28.4	30.0	0.235
3300913	R01102022	20 x 22	292	11.7	12.5	30.7	33.5	31.0	0.315
3300914	R01102123	21 x 23	315	12.2	13.2	31.8	34.8	32.0	0.350
3300916	R01102426	24 x 16	328	12.2	13.4	36.3	39.6	36.0	0.450
3300917	R01102427	24 x 27	328	12.2	13.4	36.3	41.4	36.0	0.500
3300918	R01102430	24 x 30	342	13.9	14.9	37.0	43.5	36.0	0.600
3300919	R01102528	25 x 28	342	13.9	14.9	37.4	41.4	35.0	0.500
3300921	R01102732	27 x 32	365	14.0	15.8	39.9	46.3	36.0	0.600
3300922	R01103032	30 x 32	370	15.2	16.0	43.5	46.3	36.0	0.630
3300924	R01103641	36 x 41	445	17.3	18.3	52.7	60.2	42.0	1.050

# R0110XXXX

## DOUBLE RING SPANNER SET



metric

- > Acc. to DIN 838, ISO 3318, ISO 1085, ISO 10104
- > 5° offset
- > Thin walled rings
- > Chrome-vanadium steel
- > Matt satin chrome-plated finish
- > In the holder



Code	No.	Contents	pieces	kg
3300926	R01105008	6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 mm	8	1.400
3300928	R01105012	6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 25x28 30x32 mm	12	3.550

# R0135XXXX

## HALF-MOON RING SPANNER

metric

- > Where space is confined
- > Thin walled rings
- > Matt satin chrome-plated finish
- > Chrome-vanadium steel



Code	No.	Ø mm	l mm	Head height 1	Head height 2	Head width 1	Head width 2	Weight
3301113	R01351012	10 x 12	128	6.5	7.1	16.5	17.5	0.045
3301114	R01351113	11 x 13	150	7.4	7.6	20.1	21.7	0.075
3301115	R01351315	13 x 15	168	9.0	9.4	23.4	24.6	0.100
3301116	R01351416	14 x 16	184	9.0	9.4	23.4	26.5	0.115
3301117	R01351517	15 x 17	184	9.0	9.4	23.4	26.5	0.115

### Double open-ended spanners

# R0512XXXX

## DOUBLE OPEN-ENDED SPANNERS

short, metric

- > Acc. to DIN 895, ISO 3318, ISO 1085
- > Jaw set at 15°
- > Chrome-vanadium steel
- > Matt satin chrome-plated finish



Code	No.	Ø mm	l mm	Head height 1	Head width 1	Head width 2	Weight
3301067	R05120607	6 x 7	97	3.2	14.4	15.4	0.017
3301068	R05120809	8 x 9	106	3.5	17.9	19.9	0.023
3301069	R05121011	10 x 11	125	5.0	22.2	24.4	0.040
3301070	R05121213	12 x 13	135	5.4	26.6	28.8	0.060
3301071	R05121415	14 x 15	150	5.8	31.0	33.2	0.083
3301072	R05121617	16 x 17	160	6.0	33.5	37.7	0.095
3301073	R05121819	18 x 19	176	6.6	37.7	42.0	0.130
3301074	R05122022	20 x 22	196	7.2	41.3	46.9	0.190
3301075	R05122123	21 x 23	212	7.7	46.0	50.0	0.235
3301076	R05122426	24 x 26	245	8.0	50.5	56.0	0.288
3301077	R05122427	24 x 27	245	8.0	50.5	56.0	0.288
3301078	R05122528	25 x 28	245	8.0	50.5	56.0	0.283
3301079	R05122732	27 x 32	259	9.3	58.0	63.5	0.400
3301080	R05123032	30 x 32	259	9.3	58.0	63.5	0.400

# R05126008

## DOUBLE OPEN-ENDED SPANNER IN WALLET

metric, 8 pieces

- > Acc. to DIN 895, ISO 3318, ISO 1085
- > Jaw set at 15°
- > Chrome-vanadium steel
- > Matt satin chrome-plated finish
- > In practical roll-cover



Code	No.	Contents	pieces	Weight
3301081	R05126008	6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 mm	8	0.640

**R0512XXXX**

## DOUBLE OPEN-ENDED SPANNER SET

short, metric



- > Acc. to DIN 895, ISO 3318, ISO 1085
- > Jaw set at 15°
- > Chrome-vanadium steel
- > Matt satin chrome-plated finish
- > In the holder



Code	No.	Contents	pieces	
<b>3300958</b>	R05125006	6x7 8x9 10x11 12x13 14x15 16x17 mm	6	0.300
<b>3300961</b>	R05125012	6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x26 25x28 27x32 mm	12	2.000

**R0510XXXX**

## DOUBLE OPEN-ENDED SPANNERS

long, metric



- > Acc. to DIN 3110, ISO 3318, ISO 1085, ISO 10102
- > Jaw set at 15°
- > Matt satin chrome-plated finish
- > Chrome-vanadium steel



Code	No.			Head height 1	Head width 1	Head width 2	
<b>3300930</b>	R05100607	6 x 7	122	3.4	17.6	18.6	0.025
<b>3300931</b>	R05100809	8 x 9	140	3.8	21.1	23.1	0.040
<b>3300933</b>	R05101011	10 x 11	157	4.6	24.6	27.6	0.040
<b>3300934</b>	R05101013	10 x 13	172	5.1	24.6	31.6	0.060
<b>3300935</b>	R05101213	12 x 13	172	5.1	29.1	32.6	0.055
<b>3300940</b>	R05101415	14 x 15	188	5.6	32.8	35.8	0.100
<b>3300942</b>	R05101617	16 x 17	205	6.1	36.8	40.3	0.110
<b>3300943</b>	R05101719	17 x 19	222	6.6	40.3	44.3	0.155
<b>3300944</b>	R05101819	18 x 19	222	6.6	40.3	44.3	0.155
<b>3300946</b>	R05102022	20 x 22	236	7.1	44.8	49.8	0.210
<b>3300947</b>	R05102123	21 x 23	247	7.6	47.3	51.3	0.240
<b>3300948</b>	R05102224	22 x 24	247	7.6	47.3	51.3	0.240
<b>3300949</b>	R05102426	24 x 26	266	8.1	54.8	61.3	0.300
<b>3300950</b>	R05102427	24 x 27	266	8.1	54.8	61.3	0.300
<b>3300952</b>	R05102528	25 x 28	280	8.6	56.3	61.3	0.460
<b>3300954</b>	R05102732	27 x 32	302	9.1	61.3	64.8	0.460
<b>3300955</b>	R05103032	30 x 32	302	9.1	64.8	69.3	0.460
<b>3300957</b>	R05103641	36 x 41	360	10.3	77.3	85.8	0.830

# R0510 XXXX

## DOUBLE OPEN-ENDED SPANNER SET



long, metric

- > Acc. to DIN 3110, ISO 3318, ISO 1085, ISO 10102
- > Jaw set at 15°
- > Matt satin chrome-plated finish
- > Chrome-vanadium steel
- > In the holder



Code	No.	Contents	pieces	
3300959	R05105008	6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 mm	8	0.700
3300960	R05105012	6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 25x28 30x32 mm	12	2.150

### Combination spanners

# R0910 XXXX

## COMBINATION SPANNERS



metric

- > Acc. to DIN 3113, Form A, ISO 3318, ISO 7738
- > Ring offset to 15°
- > Jaw set at 15°
- > Matt satin chrome-plated finish
- > Chrome-vanadium steel



Code	No.	Ø mm	↳ mm	Head height 1	Head height 2	Head width 1	Head width 2	
3300962	R09100060	6	95	5.2	3.7	9.8	13.3	0.016
3300963	R09100070	7	105	5.7	3.7	11.4	15.5	0.021
3300964	R09100080	8	110	6.2	4.2	13.0	17.7	0.025
3300965	R09100090	9	120	6.7	4.2	14.5	20.0	0.031
3300966	R09100100	10	130	7.2	4.7	16.0	22.2	0.035
3300967	R09100110	11	140	7.0	5.0	17.5	24.4	0.035
3300968	R09100120	12	153	8.0	5.5	19.0	26.6	0.050
3300969	R09100130	13	163	8.5	5.5	20.3	28.8	0.065
3300970	R09100140	14	173	9.0	5.8	22.0	31.0	0.075
3300971	R09100150	15	185	9.5	6.0	23.0	33.2	0.090
3300972	R09100160	16	198	10.0	6.5	24.5	35.5	0.105
3300973	R09100170	17	210	10.5	7.0	26.0	37.6	0.120
3300974	R09100180	18	220	11.0	7.4	27.5	39.9	0.155
3300975	R09100190	19	230	11.2	7.5	29.0	42.1	0.170
3300976	R09100200	20	240	12.0	8.2	31.0	44.2	0.200
3300977	R09100210	21	252	12.0	8.2	32.5	46.5	0.240
3300978	R09100220	22	262	12.7	8.6	34.0	48.6	0.260
3300980	R09100240	24	282	13.6	9.0	37.0	53.2	0.300
3300983	R09100270	27	310	14.6	9.5	41.0	59.8	0.400
3300986	R09100300	30	340	16.1	10.6	45.0	63.6	0.500
3300987	R09100320	32	360	17.3	11.6	48.0	67.5	0.700

# R0910 XXXX COMBINATION SPANNER SET



metric

- > Acc. to DIN 3113, Form A, ISO 3318, ISO 7738
- > Ring offset to 15°
- > Jaw set at 15°
- > Matt satin chrome-plated finish
- > Chrome-vanadium steel
- > In the holder



Code	No.	Contents	pieces	kg
3300988	R09105008	8 9 10 11 13 14 17 19 mm	8	0.600
3300989	R09105010	8 10 11 12 13 14 15 17 19 22 mm	10	0.850
3300990	R09105012	10 11 12 13 14 17 19 22 24 27 30 32 mm	12	2.500
3300992	R09105112	6 7 8 9 10 11 12 13 14 17 19 22 mm	12	1.100
3300993	R09105015	6 7 8 10 11 12 13 14 17 19 22 24 27 30 32 mm	15	3.100
3300994	R09105017	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 mm	17	1.800
3300991	R09105021	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 24 27 30 32 mm	21	3.325
3300995	R09105024	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 26 27 28 30 32 mm	24	5.400

# R0911 XXXX COMBINATION SPANNERS



INCH (AF)

- > Ring offset to 15°
- > Jaw set at 15°
- > Chrome-vanadium steel
- > Matt satin chrome-plated finish



Code	No.	AF	mm	Head height 1	Head height 2	Head width 1	Head width 2	kg
3301026	R09110016	1/4	95	5.2	3.7	9.8	13.3	0.020
3301027	R09110020	5/16	110	6.2	4.2	13.0	17.7	0.020
3301028	R09110024	3/8	130	7.2	4.7	16.0	22.2	0.030
3301029	R09110028	7/16	140	7.5	5.0	17.5	24.4	0.045
3301030	R09110032	1/2	163	8.5	5.5	20.3	28.8	0.070
3301031	R09110036	9/16	173	9.0	5.8	22.0	31.0	0.085
3301032	R09110040	5/8	198	10.0	6.5	24.5	35.5	0.095
3301033	R09110044	11/16	210	10.5	7.0	26.0	37.6	0.150
3301034	R09110048	3/4	230	11.2	7.5	29.0	42.1	0.180
3301035	R09110052	13/16	252	12.0	8.2	32.5	46.5	0.206
3301036	R09110056	7/8	262	12.7	8.6	34.0	48.6	0.254
3301037	R09110060	15/16	282	13.6	9.0	37.0	53.2	0.295
3301038	R09110064	1	302	14.5	9.5	38.5	57.6	0.373
3301039	R09110068	1.1/16	310	14.6	9.5	41.0	59.8	0.375
3301040	R09110072	1.1/8	320	16.0	10.5	42.0	62.0	0.435
3301041	R09110080	1.1/4	360	17.3	11.6	48.0	67.5	0.634

# R0911 5016

## COMBINATION SPANNER SET



INCH (AF) 16 pieces

- > Ring offset to 15°
- > Jaw set at 15°
- > Chrome-vanadium steel
- > Matt satin chrome-plated finish
- > In the holder



Code	No.	Contents	pieces	
3301043	R09115016	1/4 5/16 3/8 7/16 1/2 9/16 5/8 11/16 3/4 13/16 7/8 15/16 1 1.1/16 1.1/8 1.1/4"	16	3.800

### Various

# R0310 XXXX

## ADJUSTABLE SPANNERS



- > Acc. to DIN 3117, Form A
- > Jaw set at 15°
- > Polished head with lasered scale
- > High torque
- > 40-50 HRC
- > Chrome-vanadium steel
- > Chrome-plated



Code	No.	↳ "inch" ↳	↳ mm ↳	"inch"	mm	
3300996	R03100006	6	150	0.94	24	0.140
3300997	R03100008	8	200	1.18	30	0.250
3300998	R03100010	10	250	1.34	34	0.420
3300999	R03100012	12	300	1.6	41	0.700

# R0380 XXXX

## ADJUSTABLE SPANNERS



- > Acc. to DIN 3117, Form A
- > Jaw set at 15°
- > Swedish pattern, roller with left hand thread
- > With mm-scale
- > Chrome-vanadium steel
- > Phosphated
- > With hole for hanging up



Code	No.	↳ "inch" ↳	↳ mm ↳	"inch"	mm	
3301064	R03800015	15	385	1.69	43	1.400
3301065	R03800018	18	460	2.17	55	2.100
3301066	R03800024	24	610	2.44	62	3.700



## R0391 XXXX




### ADJUSTABLE SPANNERS



with ratchet

- > Jaw set at 15°
- > Swedish pattern, roller with left hand thread
- > Ratchet function
- > With mm-scale
- > 40 HRC
- > Chrome-vanadium steel
- > Chrome-plated
- > Dip-coated handle covers
- > With hole for hanging up





Code	No.	- inch	- mm	"inch 	mm 	
3301001	R03910008	8	205	1.18	30	0.366
3301002	R03910010	10	256	1.42	36	0.584

## R0170 0057

### WHEEL WRENCH

- > Chrome-vanadium steel
- > Chrome-plated



Code	No.		- mm	
3301453	R01700057	17 x 19 (3/4") x 21 x 11/16"	360	1.250

# RANGE OF SOCKETS

066 - 089



## Legend



1/4" drive

Ratchets 1/4" drive

## R40000027 2C REVERSIBLE RATCHET 1/4"



- > Lever for reversible clockwise/anticlockwise operation
- > Push-button release
- > Fine-toothed
- > Oval head
- > Dual-material handle, for easy handling
- > Matt chrome-plated surface
- > For sockets, accessories etc. with square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retention groove
- > Chrome-vanadium steel



Code	No.	"	■	mm	°	Number of teeth	kg
3300158	R40000027	1/4	6.3	150	5	72	0.122

## R40050009 2C REVERSIBLE RATCHET 1/4"



offset

- > Offset design for in-depth screw work
- > Lever for reversible clockwise/anticlockwise operation
- > Push-button release
- > Sturdy mechanisms
- > Oval head
- > Dual-material handle, for easy handling
- > Matt chrome-plated surface
- > For sockets, accessories etc. with square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retention groove
- > Chrome-vanadium steel



Code	No.	"	■	mm	°	Number of teeth	kg
3300159	R40050009	1/4	6.3	145	10	36	0.100

## R40120027

### 2C SWIVEL HEAD REVERSIBLE RATCHET 1/4"



- > Ratchet head swivels through 180°
- > Lockable in 5 positions
- > Lever for reversible clockwise/anticlockwise operation
- > Push-button release
- > Matt chrome-plated surface
- > Fine-toothed
- > Oval head
- > Dual-material handle, for easy handling
- > For sockets, accessories etc. with square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retention groove
- > Chrome-vanadium steel



Code	No.	□"	■	↳ mm ↳	↙°	Number of teeth	⚖
3300156	R40120027	1/4	6.3	163	5	72	0.130

## R40170027

### 2C SWIVEL HEAD BIT RATCHET 1/4"



reversible

- > Ratchet head swivels through 180°
- > Lockable in 5 positions
- > Magnetic holder
- > Lever for reversible clockwise/anticlockwise operation
- > In-hex for direct mounting of bits as per DIN 3126 - D 6.3
- > Matt chrome-plated surface
- > Fine-toothed
- > Oval head
- > Dual-material handle, for easy handling
- > Chrome-vanadium steel



Code	No.	○"	○	↳ mm ↳	↙°	Number of teeth	⚖
3300160	R40170027	1/4	6.3	163	5	72	0.130

## R40150027

### BIT RATCHET 1/4"



reversible, with drive adapter

- > Lever for reversible clockwise/anticlockwise operation
- > Fine-toothed
- > Oval head
- > In-hex for direct mounting of bits as per DIN 3126 - D 6.3
- > Retention spring
- > Sturdy all-steel design
- > Matt chrome-plated surface
- > Driving adapter hex x sq.
- > Coupler based on DIN 3120 - A 6.3, ISO 1174, with ball lock
- > External hex drive as per DIN 3126 - C 6.3 (1/4"), with ball lock
- > Chrome-vanadium steel



Code	No.	○"	○	↳ mm ↳	↙°	Number of teeth	pieces	⚖
3300161	R40150027	1/4	6.3	91	6	60	2	0.034

## Sockets 1/4"

**R4100XXXX**  
SOCKET 1/4"

hexagon, metric, short

- > Hand-operated, knurled grip
- > Drive end matt chrome-plated, driven end bright-polished
- > Acc. to DIN 3124, ISO 2725
- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retention groove
- > Chrome-vanadium steel



Code	No.	⌀ mm	□"	□	↳ mm ↲	Ø 1	Ø 2	⚖
3300064	R41000403	4.0	1/4	6.3	25	6.7	12.0	0.012
3300065	R41004503	4.5	1/4	6.3	25	7.2	12.0	0.013
3300066	R41000503	5.0	1/4	6.3	25	7.8	12.0	0.013
3300067	R41005503	5.5	1/4	6.3	25	8.5	12.0	0.013
3300068	R41000603	6.0	1/4	6.3	25	9.1	12.0	0.014
3300069	R41000703	7.0	1/4	6.3	25	10.5	12.0	0.012
3300070	R41000803	8.0	1/4	6.3	25	11.3	12.0	0.014
3300071	R41000903	9.0	1/4	6.3	25	12.0	13.0	0.012
3300072	R41001003	10.0	1/4	6.3	25	12.7	14.5	0.014
3300073	R41001103	11.0	1/4	6.3	25	14.0	16.0	0.017
3300074	R41001203	12.0	1/4	6.3	25	15.0	17.0	0.020
3300075	R41001303	13.0	1/4	6.3	25	16.0	18.0	0.020
3300076	R41001403	14.0	1/4	6.3	25	18.0	19.7	0.180

**R4100XXXX**  
SOCKET 1/4"

hexagon, metric, long

- > Hand-operated, knurled grip
- > Drive end matt chrome-plated, driven end bright-polished
- > Acc. to DIN 3124, ISO 2725
- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retention groove
- > Chrome-vanadium steel



Code	No.	⌀ mm	□"	□	↳ mm ↲	Ø 1	Ø 2	⚖
3300077	R41000409	4.0	1/4	6.3	50	6.7	12.0	0.028
3300078	R41004509	4.5	1/4	6.3	50	7.2	12.0	0.026
3300079	R41000509	5.0	1/4	6.3	50	7.8	12.0	0.030
3300080	R41005509	5.5	1/4	6.3	50	8.5	12.0	0.030
3300081	R41000609	6.0	1/4	6.3	50	9.1	12.0	0.029
3300082	R41000709	7.0	1/4	6.3	50	10.5	12.0	0.025
3300083	R41000809	8.0	1/4	6.3	50	11.3	12.0	0.024
3300084	R41000909	9.0	1/4	6.3	50	12.0	13.2	0.032
3300085	R41001009	10.0	1/4	6.3	50	12.7	14.7	0.039
3300086	R41001109	11.0	1/4	6.3	50	14.0	16.0	0.050
3300087	R41001209	12.0	1/4	6.3	50	15.0	17.0	0.055
3300088	R41001309	13.0	1/4	6.3	50	16.0	18.0	0.055

## R4120XXXX

### SOCKET 1/4"



for external TX screws

- > Hand-operated, knurled grip
- > Drive end matt chrome-plated, driven end bright-polished
- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retention groove
- > Chrome-vanadium steel



Code	No.	☉	□"	□	↳ mm ↲	Ø 1	Ø 2	⚖
3300102	R41200203	E5	1/4	6.3	25	7.2	12.0	0.013
3300103	R41200303	E6	1/4	6.3	25	8.2	12.0	0.014
3300104	R41200403	E7	1/4	6.3	25	9.0	12.0	0.014
3300105	R41200503	E8	1/4	6.3	25	13.3	12.0	0.015
3300106	R41200703	E10	1/4	6.3	25	12.5	13.2	0.015

## R4255XXXX

### SCREWDRIVER BIT SOCKET 1/4"



for in-hex screws

- > Pressed-in phosphated pin
- > Hand-operated, knurled grip
- > Drive end brightly polished
- > Acc. to DIN 7422
- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retention groove
- > Chrome-vanadium steel



Code	No.	○ mm	□"	□	↳ mm ↲	Tip length	Ø 1	⚖
3300123	R42550306	3	1/4	6.3	37	15	12	0.016
3300124	R42550406	4	1/4	6.3	37	15	12	0.016
3300125	R42550506	5	1/4	6.3	37	15	12	0.017
3300126	R42550606	6	1/4	6.3	37	15	12	0.017
3300127	R42550806	8	1/4	6.3	37	15	12	0.020
3300128	R42551006	10	1/4	6.3	37	15	12	0.020

## R4245XXXX

### SCREWDRIVER BIT SOCKET 1/4"



for recessed TX screws

- > Pressed-in phosphated pin
- > Hand-operated, knurled grip
- > Drive end brightly polished
- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retention groove
- > Chrome-vanadium steel



Code	No.	☉	□"	□	↳ mm ↲	Tip length	Ø 1	⚖
3300107	R42451106	T10	1/4	6.3	37	15	12	0.015
3300108	R42451206	T15	1/4	6.3	37	15	12	0.016
3300109	R42451306	T20	1/4	6.3	37	15	12	0.016
3300110	R42451406	T25	1/4	6.3	37	15	12	0.016
3300111	R42451506	T27	1/4	6.3	37	15	12	0.016
3300112	R42451606	T30	1/4	6.3	37	15	12	0.016
3300113	R42451806	T40	1/4	6.3	37	15	12	0.017

# R4246XXXX

## SCREWDRIVER BIT SOCKET 1/4"



for recessed TX head screws with shaft

- > Pressed-in phosphated pin
- > Hand-operated, knurled grip
- > Drive end brightly polished
- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retention groove
- > Chrome-vanadium steel



Code	No.		"	□	↳ mm ◀	Tip length	Ø 1	
3300116	R42461106	T10	1/4	6.3	37	15	12	0.015
3300117	R42461206	T15	1/4	6.3	37	15	12	0.016
3300118	R42461306	T20	1/4	6.3	37	15	12	0.016
3300119	R42461406	T25	1/4	6.3	37	15	12	0.016
3300120	R42461506	T27	1/4	6.3	37	15	12	0.016
3300121	R42461606	T30	1/4	6.3	37	15	12	0.016

### Accessories 1/4" drive

# R45200022

## SLIDING T-BAR WITH SLIDER 1/4"



- > Acc. to DIN 3122, ISO 3315
- > Matt chrome-plated
- > For hand-operated sockets
- > Coupler based on DIN 3120 - A 6.3, ISO 1174, with ball lock
- > Chrome-vanadium steel



Code	No.	■ "	■	↳ mm ◀	
3300143	R45200022	1/4	6.3	115	0.038

# R38950001

## SQUARE PLUG-IN HANDLE 1/4"



- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- > Dual-material handle, for easy handling
- > Matt chrome-plated
- > Coupler in acc. with DIN 3120 - A 6.3, ISO 1174, with ball locking device
- > Internal square in the handle suitable for ratchet-performed drive as per DIN 3120 - C 6.3, ISO 1174, with ball retaining groove
- > Chrome-vanadium steel



Code	No.	■ "	■	↳ mm ◀	↳ mm ◀	Ø	
3301344	R38950001	1/4	6.3	61	171	8	0.120

## R4510XXX SOCKET EXTENSION 1/4"



- > Matt chrome-plated
- > For hand-operated sockets
- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retention groove
- > Coupler based on DIN 3120 - A 6.3, ISO 1174, with ball lock
- > Chrome-vanadium steel



Code	No.	■ "	■	↳ mm ↳	⚖
3300140	R45100009	1/4	6.3	50	0.025
3300141	R45100019	1/4	6.3	100	0.050
3300142	R45100029	1/4	6.3	150	0.065

## R4530 0005 UNIVERSAL JOINT 1/4"



- > Screwed-on joint
- > Acc. to DIN 3123 - C 6.3
- > Matt chrome-plated
- > For hand-operated sockets
- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retention groove
- > Coupler based on DIN 3120 - A 6.3, ISO 1174, with ball lock
- > Chrome-vanadium steel



Code	No.	■ "	■	□ "	□	↳ mm ↳	⚖
3300144	R45300005	1/4	6.3	1/4	6.3	33	0.024

## R47001004 SQUARE DRIVE ADAPTER SET



for ratchet spanner, 4 pieces

- > For secure connection of ratchet wrench and socket
- > Push-button release
- > Square drive in acc. with DIN 3120, ISO 1174, with ball locking device
- > Bit holder with hexagon drive in acc. with DIN 3126 - C 6.3 (1/4")
- > Matt chrome-plated
- > Chrome-vanadium steel



Code	No.	Contents	pieces	⚖
3300061	R47001004	External hex 19 mm x external sq. 1/2" for sockets External hex 13 mm x external sq. 3/8" for sockets External hex 10 mm x external sq. 1/4" for sockets External hex 10 mm x in-hex 1/4" for all 1/4" bits	4	0.100



# R4710 XXXX

## SOCKET HOLDER 1/4"



- > Matt satin chrome-plated finish
- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retention groove
- > For 1/4" bits with hexagon drive as per DIN 3126, ISO 1173
- > Chrome-vanadium steel
- > Retention spring



Code	No.	□"	□	⬡"	⬡	↳ mm	⚖
3300151	R47100103	1/4	6.3	1/4	6.3	25	0.018

# R3895 0000

## BIT SCREWDRIVER 1/4"



- > Dual-material handle, for easy handling
- > Hex recess drive as per DIN 3126 - D 6.3 (1/4"), for bits
- > Bit holder with powerful magnet
- > Elongated hole in handle for hanging up
- > Chrome-vanadium steel



Code	No.	⬡"	⬡	↳ mm	↳ mm	⚖
3301343	R38950000	1/4	6.3	100	210	0.110

# R4711 0009

## DRIVE ADAPTER 1/4"



- > For driving sockets and screwdriver bit sockets
- > Coupler based on DIN 3120 - A 6.3, ISO 1174, with ball lock
- > Hex drive as per DIN 3126 - C 6.3 (1/4") for use in chucks
- > Sand-blasted



Code	No.	■"	■	●"	●	↳ mm	⚖
3300150	R47110009	1/4	6.3	1/4	6.3	50	0.016

## R4710 0003

### DRIVE ADAPTER 1/4"



- > For driving sockets and screwdriver bit sockets
- > Coupler based on DIN 3120 - A 6.3, ISO 1174, with ball lock
- > Hexagon drive as per DIN 3126 - C 6.3 (1/4")
- > Sand-blasted



Code	No.	1/4"	6.3	1/4"	6.3	mm	g
3300149	R47100003	1/4	6.3	1/4	6.3	25	0.008

## R4712 0011

### QUICK-CHANGE BIT HOLDER 1/4"



with magnet

- > Quick-grip system for hex bits as per DIN 3126 - C 6.3 + E 6.3 (1/4")
- > Hex drive as per DIN 3126 - C 6.3 (1/4") for use in chucks
- > Release for bit ejection



Code	No.	1/4"	6.3	1/4"	6.3	mm	g
3300148	R47120011	1/4	6.3	1/4	6.3	60	0.030

## R4711 XXXX

### BIT HOLDER



with magnet

- > Acc. to DIN 7427
- > For hex bits as per DIN 3126 - C 6.3 + E 6.3 (1/4"), hex drive as per DIN 3126 - C 6.3 (1/4") for use in chucks



Code	No.	1/4"	6.3	1/4"	6.3	mm	g
3300146	R47110011	1/4	6.3	1/4	6.3	60	0.022
3300147	R47110014	1/4	6.3	1/4	6.3	75	0.030

## R4711 XXXX

### SOCKET



1/4" hexagon, with magnet

- > For hex bits as per DIN 3126 - C 6.3 + E 6.3 (1/4")
- > Sand-blasted



Code	No.	AF	1/4"	6.3	mm	g
3300517	R47110012	1/4	1/4	6.3	65	0.026
3300518	R47110112	5/16	1/4	6.3	65	0.030
3300519	R47110212	3/8	1/4	6.3	65	0.036

3/8" drive

Ratchets 3/8"

**R50000027**

## 2C REVERSIBLE RATCHET 3/8"



- > Lever for reversible clockwise/anticlockwise operation
- > Push-button release
- > Fine-toothed
- > Oval head
- > Dual-material handle, for easy handling
- > Matt chrome-plated surface
- > For sockets, accessories etc. with square drive as per DIN 3120 - C 10, ISO 1174, with ball retention groove
- > Chrome-vanadium steel



Code	No.	"	■	↳ mm ↳	°	Number of teeth	kg
3300224	R50000027	3/8	10	180	5	72	0.282

**R50050009**

## 2C REVERSIBLE RATCHET 3/8"

offset



- > Offset design for in-depth screw work
- > Lever for reversible clockwise/anticlockwise operation
- > Push-button release
- > Sturdy mechanisms
- > Oval head
- > Dual-material handle, for easy handling
- > Matt chrome-plated surface
- > For sockets, accessories etc. with square drive as per DIN 3120 - C 10, ISO 1174, with ball retention groove
- > Chrome-vanadium steel



Code	No.	"	■	↳ mm ↳	°	Number of teeth	kg
3300225	R50050009	3/8	10	210	10	36	0.226

**R50120027**

## 2C SWIVEL HEAD REVERSIBLE RATCHET 3/8"



- > Ratchet head swivels through 180°
- > Lockable in 5 positions
- > Lever for reversible clockwise/anticlockwise operation
- > Push-button release
- > Matt chrome-plated surface
- > Oval head
- > Dual-material handle, for easy handling
- > For sockets, accessories etc. with square drive as per DIN 3120 - C 10, ISO 1174, with ball retention groove
- > Chrome-vanadium steel



Code	No.	"	■	↳ mm ↳	°	Number of teeth	kg
3301819	R50120027	3/8	10	246	5	72	0.339

## Sockets 3/8"

# R5100 XXXX

## SOCKET 3/8"

hexagon, metric, short



- > Hand-operated, knurled grip
- > Drive end matt chrome-plated, driven end bright-polished
- > Acc. to DIN 3124, ISO 2725
- > Square drive as per DIN 3120 - C 10, ISO 1174, with ball retention groove
- > Chrome-vanadium steel



Code	No.	□"	□	○mm	↳mm↵	Ø 1	Ø 2	±%
3300164	R51000604	3/8	10	6	28	10.0	17.0	0.019
3300165	R51000704	3/8	10	7	28	10.6	17.0	0.019
3300166	R51000804	3/8	10	8	28	11.8	17.0	0.020
3300167	R51000904	3/8	10	9	28	13.2	17.0	0.021
3300168	R51001004	3/8	10	10	28	14.2	17.0	0.021
3300169	R51001104	3/8	10	11	28	15.6	17.0	0.021
3300170	R51001204	3/8	10	12	28	17.0	18.0	0.024
3300171	R51001304	3/8	10	13	28	18.0	17.0	0.029
3300172	R51001404	3/8	10	14	28	19.5	19.0	0.032
3300173	R51001504	3/8	10	15	28	21.0	20.0	0.036
3300174	R51001604	3/8	10	16	28	22.0	21.0	0.039
3300175	R51001704	3/8	10	17	30	23.5	22.0	0.053
3300176	R51001804	3/8	10	18	30	24.5	23.0	0.057
3300177	R51001904	3/8	10	19	30	26.0	24.0	0.061
3300178	R51002004	3/8	10	20	32	28.0	25.0	0.074
3300179	R51002104	3/8	10	21	32	28.0	26.0	0.074
3300180	R51002204	3/8	10	22	32	30.0	28.0	0.088

## Accessories 3/8" drive

# R5520 0039

## SLIDING T-BAR WITH SLIDER 3/8"



- > Acc. to DIN 3122, ISO 3315
- > Matt chrome-plated
- > For hand-operated sockets
- > Coupler based on DIN 3120 - A 10, ISO 1174, with ball lock
- > Chrome-vanadium steel



Code	No.	□"	□	↳mm↵	±%
3300242	R55200039	3/8	10	200	0.190

## R5510XXXX

### SOCKET EXTENSION 3/8"

- > Matt chrome-plated
- > For hand-operated sockets
- > Square drive as per DIN 3120 - C 10, ISO 1174, with ball retention groove
- > Coupler based on DIN 3120 - A 10, ISO 1174, with ball lock
- > Chrome-vanadium steel



Code	No.	□"	□	■"	■	↳ mm ↳	⚖
3300218	R55100024	3/8	10	3/8	10	125	0.100
3300219	R55100029	3/8	10	3/8	10	150	0.150

## R5730 0005

### SOCKET EXTENSION PIECE 3/8" TO 1/2"

- > Matt chrome-plated
- > For hand-operated sockets
- > Square drive as per DIN 3120 - C 10, ISO 1174, with ball retention groove
- > Coupler based on DIN 3120 - A 12.5, ISO 1174, with ball lock
- > Chrome-vanadium steel
- > Additional socket extension turns the convertor into a sliding T-bar with slider



Code	No.	□"	□	■"	■	↳ mm ↳	⚖
3300243	R57300008	3/8	10	1/2	12.5	44	0.068

## R5750 0004

### REDUCER 3/8" TO 1/4"

- > Matt chrome-plated
- > For hand-operated sockets
- > Square drive as per DIN 3120 - C 10, ISO 1174, with ball retention groove
- > Coupler based on DIN 3120 - A 6.3, ISO 1174, with ball lock
- > Chrome-vanadium steel



Code	No.	□"	□	■"	■	↳ mm ↳	⚖
3300244	R57500004	3/8	10	1/4	6.3	27	0.021

1/2" square drive

Ratchets 1/2"

**R60000027**  
2C REVERSIBLE RATCHET 1/2"



- > Lever for reversible clockwise/anticlockwise operation
- > Push-button release
- > Fine-toothed
- > Oval head
- > Dual-material handle, for easy handling
- > Matt chrome-plated surface
- > For sockets, accessories etc. with square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Chrome-vanadium steel



Code	No.	"	mm	mm	°	Number of teeth	mm
3300410	R60000027	1/2	12.5	250	5	72	0.586

**R60050009**  
2C REVERSIBLE RATCHET 1/2"



offset

- > Offset design for in-depth screw work
- > Lever for reversible clockwise/anticlockwise operation
- > Push-button release
- > Sturdy mechanisms
- > Oval head
- > Dual-material handle, for easy handling
- > Matt chrome-plated surface
- > For sockets, accessories etc. with square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Chrome-vanadium steel



Code	No.	"	mm	mm	°	Number of teeth	mm
3300411	R60050009	1/2	12.5	255	10	36	0.514

**R60120027**  
2C SWIVEL HEAD REVERSIBLE RATCHET 1/2"



- > Ratchet head swivels through 180°
- > Lockable in 5 positions
- > Lever for reversible clockwise/anticlockwise operation
- > Push-button release
- > Matt chrome-plated surface
- > Fine-toothed
- > Oval head
- > Dual-material handle, for easy handling
- > For sockets, accessories etc. with square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Chrome-vanadium steel



Code	No.	"	mm	mm	°	Number of teeth	mm
3300409	R60120027	1/2	12.5	292	5	72	0.633

## R6060006

### 2C RATCHET HANDLE WITH COUPLER 1/2"



- > Square coupler for clockwise/anti-clockwise operation
- > Sturdy mechanisms
- > Acc. to DIN 3122, ISO 3315
- > Dual-material handle, for easy handling
- > Matt chrome-plated surface
- > Also suitable for use with stepped keys and radiator nipple keys
- > For sockets, accessories etc. with square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Chrome-vanadium steel



Code	No.	"	mm	mm	°	Number of teeth	kg
3300412	R6060006	1/2	12.5	270	12	30	0.560

## R60110009

### 2C SWIVEL-HEAD TELESCOPIC RATCHET

reversible



- > Telescopic shaft lockable in 5 positions
- > Ratchet head swivels through 180°
- > Ring for reversing clockwise/anticlockwise direction
- > Sturdy mechanisms
- > Dual-material handle, for easy handling
- > Matt chrome-plated surface
- > For sockets, accessories etc. with square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Chrome-vanadium steel
- > Hole for hanging up



Code	No.	"	mm	mm	°	Number of teeth	kg
3300523	R60110009	1/2	12.5	430-580	10	36	1.292

## R60010027

### 2C TELESCOPIC RATCHET

reversible



- > Lever for reversible clockwise/anticlockwise operation
- > Push-button release
- > Telescopic shaft lockable in 5 positions
- > Dual-material handle, for easy handling
- > Matt chrome-plated surface
- > For sockets, accessories etc. with square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Chrome-vanadium steel
- > Hole for hanging up



Code	No.	"	mm	mm	°	Number of teeth	kg
3300522	R60010027	1/2	12.5	460-600	5	72	1.099

## Sockets 1/2"

## R6100XXXX

### SOCKET 1/2"

hexagon, metric, short



- › Hand-operated, knurled grip
- › Drive end matt chrome-plated, driven end bright-polished
- › Acc. to DIN 3124, ISO 2725
- › Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- › Chrome-vanadium steel

Code	No.	□"	□	⊙ mm	↳ mm ↲	∅ 1	∅ 2	
3300257	R61000806	1/2	12.5	8	38	12.4	22.2	0.050
3300258	R61000906	1/2	12.5	9	38	14.2	22.2	0.050
3300259	R61001006	1/2	12.5	10	38	15.3	22.2	0.050
3300260	R61001106	1/2	12.5	11	38	16.5	22.2	0.051
3300261	R61001206	1/2	12.5	12	38	17.8	22.2	0.052
3300262	R61001306	1/2	12.5	13	38	19.0	22.2	0.052
3300263	R61001406	1/2	12.5	14	38	20.2	22.2	0.054
3300264	R61001506	1/2	12.5	15	38	21.3	22.2	0.054
3300265	R61001606	1/2	12.5	16	38	23.2	22.2	0.060
3300266	R61001706	1/2	12.5	17	38	24.2	23.0	0.063
3300267	R61001806	1/2	12.5	18	38	25.0	23.0	0.066
3300268	R61001906	1/2	12.5	19	38	27.0	24.0	0.080
3300269	R61002006	1/2	12.5	20	38	28.0	24.0	0.077
3300270	R61002106	1/2	12.5	21	38	29.0	24.0	0.091
3300271	R61002206	1/2	12.5	22	38	30.0	26.0	0.092
3300272	R61002306	1/2	12.5	23	38	31.0	28.0	0.102
3300273	R61002406	1/2	12.5	24	38	32.0	28.0	0.105
3300274	R61002507	1/2	12.5	25	42	34.0	28.0	0.147
3300275	R61002607	1/2	12.5	26	42	35.0	29.0	0.150
3300276	R61002707	1/2	12.5	27	42	36.0	30.0	0.175
3300277	R61002807	1/2	12.5	28	42	37.0	30.0	0.200
3300278	R61003007	1/2	12.5	30	42	40.0	34.0	0.219
3300279	R61003207	1/2	12.5	32	42	42.0	36.0	0.192

## R6100XXXX

### SOCKET 1/2"

hexagon, metric, long



- › Hand-operated, knurled grip
- › Drive end matt chrome-plated, driven end bright-polished
- › Acc. to DIN 3124, ISO 2725
- › Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- › Chrome-vanadium steel

Code	No.	□"	□	⊙ mm	↳ mm ↲	∅ 1	∅ 2	
3300304	R61001014	1/2	12.5	10	77	15.3	22.2	0.073
3300305	R61001114	1/2	12.5	11	77	16.5	22.2	0.080
3300306	R61001214	1/2	12.5	12	77	17.8	22.2	0.090
3300307	R61001314	1/2	12.5	13	77	19.0	22.2	0.096
3300308	R61001414	1/2	12.5	14	77	20.2	22.2	0.100
3300309	R61001514	1/2	12.5	15	77	21.3	22.2	0.110
3300310	R61001614	1/2	12.5	16	77	23.2	22.2	0.114
3300311	R61001714	1/2	12.5	17	77	24.2	23.0	0.126
3300312	R61001814	1/2	12.5	18	77	25.0	23.0	0.131
3300313	R61001914	1/2	12.5	19	77	27.0	24.0	0.161
3300314	R61002014	1/2	12.5	20	77	28.0	24.0	0.167
3300315	R61002114	1/2	12.5	21	77	29.0	24.0	0.192
3300316	R61002214	1/2	12.5	22	77	30.0	26.0	0.192
3300318	R61002414	1/2	12.5	24	77	32.0	28.0	0.214
3300319	R61002714	1/2	12.5	27	77	36.0	30.0	0.310
3300320	R61003014	1/2	12.5	30	77	40.0	34.0	0.355
3300321	R61003214	1/2	12.5	32	77	42.0	36.0	0.408



# R6110XXXX

## SOCKET 1/2"



bi-hex, metric, short

- > Hand-operated, knurled grip
- > Drive end matt chrome-plated, driven end bright-polished
- > Acc. to DIN 3124, ISO 2725
- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Chrome-vanadium steel



Code	No.	□"	□	⌀ mm	↳ mm ↲	Ø 1	Ø 2	⚖
3300323	R61100806	1/2	12.5	8	38	12.4	22.2	0.050
3300324	R61100906	1/2	12.5	9	38	14.2	22.2	0.050
3300325	R61101006	1/2	12.5	10	38	15.3	22.2	0.050
3300326	R61101106	1/2	12.5	11	38	16.5	22.2	0.051
3300327	R61101206	1/2	12.5	12	38	17.8	22.2	0.052
3300328	R61101306	1/2	12.5	13	38	19.0	22.2	0.052
3300329	R61101406	1/2	12.5	14	38	20.2	22.2	0.054
3300330	R61101506	1/2	12.5	15	38	21.3	22.2	0.054
3300331	R61101606	1/2	12.5	16	38	23.2	22.2	0.060
3300332	R61101706	1/2	12.5	17	38	24.2	23.0	0.063
3300333	R61101806	1/2	12.5	18	38	25.0	23.0	0.066
3300334	R61101906	1/2	12.5	19	38	27.0	24.0	0.080
3300335	R61102006	1/2	12.5	20	38	28.0	24.0	0.077
3300336	R61102106	1/2	12.5	21	38	29.0	24.0	0.091
3300337	R61102206	1/2	12.5	22	38	30.0	26.0	0.092
3300338	R61102306	1/2	12.5	23	38	31.0	28.0	0.102
3300339	R61102406	1/2	12.5	24	38	32.0	28.0	0.105
3300341	R61102607	1/2	12.5	26	42	35.0	29.0	0.147
3300342	R61102707	1/2	12.5	27	42	36.0	30.0	0.150
3300343	R61102807	1/2	12.5	28	42	37.0	30.0	0.175
3300345	R61103007	1/2	12.5	30	42	40.0	34.0	0.200
3300346	R61103207	1/2	12.5	32	42	42.0	36.0	0.219

# R6110XXXX

## SOCKET 1/2"



bi-hex, metric, long

- > Hand-operated, knurled grip
- > Drive end matt chrome-plated, driven end bright-polished
- > Acc. to DIN 3124, ISO 2725
- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Chrome-vanadium steel



Code	No.	□"	□	⌀ mm	↳ mm ↲	Ø 1	Ø 2	⚖
3300413	R61101014	1/2	12.5	10	77	15.3	22.2	0.073
3300414	R61101114	1/2	12.5	11	77	16.5	22.2	0.080
3300415	R61101214	1/2	12.5	12	77	17.8	22.2	0.090
3300416	R61101314	1/2	12.5	13	77	19.0	22.2	0.096
3300417	R61101414	1/2	12.5	14	77	20.2	22.2	0.100
3300418	R61101514	1/2	12.5	15	77	21.3	22.2	0.110
3300419	R61101614	1/2	12.5	16	77	23.2	22.2	0.114
3300420	R61101714	1/2	12.5	17	77	24.2	23.0	0.126
3300421	R61101814	1/2	12.5	18	77	25.0	23.0	0.131
3300422	R61101914	1/2	12.5	19	77	27.0	24.0	0.161
3300423	R61102014	1/2	12.5	20	77	28.0	24.0	0.167
3300424	R61102114	1/2	12.5	21	77	29.0	24.0	0.192
3300425	R61102214	1/2	12.5	22	77	30.0	26.0	0.192
3300426	R61102414	1/2	12.5	24	77	32.0	28.0	0.214
3300427	R61102714	1/2	12.5	27	77	36.0	30.0	0.310
3300428	R61103014	1/2	12.5	30	77	40.0	34.0	0.355
3300429	R61103214	1/2	12.5	32	77	42.0	36.0	0.408

# R6120XXX

## SOCKET 1/2"



for external TX screws

- > Hand-operated, knurled grip
- > Drive end matt chrome-plated, driven end bright-polished
- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Chrome-vanadium steel



Code	No.	□"	□	⊕	↳ mm ↳	Ø 1	Ø 2	⚖
3300348	R61200506	1/2	12.5	E8	38	11.1	22.0	0.045
3300349	R61200706	1/2	12.5	E10	38	13.1	22.0	0.052
3300350	R61200806	1/2	12.5	E11	38	13.8	22.0	0.054
3300351	R61200906	1/2	12.5	E12	38	14.9	22.0	0.052
3300352	R61201106	1/2	12.5	E14	38	16.7	22.0	0.052
3300353	R61201306	1/2	12.5	E16	38	18.7	22.0	0.056
3300354	R61201506	1/2	12.5	E18	38	20.3	22.0	0.054
3300355	R61201706	1/2	12.5	E20	38	22.3	24.0	0.062
3300356	R61201807	1/2	12.5	E22	40	24.3	26.0	0.078
3300357	R61201907	1/2	12.5	E24	41	26.3	28.0	0.094

# R61021612

## SPARK PLUG SOCKET 1/2"



- > Hand-operated, knurled grip
- > Drive end matt chrome-plated, driven end bright-polished
- > Rubber insert for holding the spark plug
- > Acc. to DIN 3124, ISO 2725
- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Chrome-vanadium steel



Code	No.	□"	□	⊕ mm	↳ mm ↳	Ø 1	⚖
3300401	R61021612	1/2	12.5	16.0	65	21.7	0.090

# R61022112

## SPARK PLUG SOCKET 1/2"



Square drive

- > Hex drive 23 mm
- > Hand-operated, knurled grip
- > Drive end matt chrome-plated, driven end bright-polished
- > Rubber insert for holding the spark plug
- > Acc. to DIN 3124, ISO 2725
- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Chrome-vanadium steel



Code	No.	□"	□	⊕ mm	↳ mm ↳	Ø 1	⚖
3300402	R61022112	1/2	12.5	21.0	65	27.7	0.138

## R6255 XXXX

### SCREWDRIVER BIT SOCKET 1/2"

12.5mm  
1/2"

hexagon, metric, short

- > Pressed-in phosphated pin
- > Hand-operated, knurled grip
- > Drive end brightly polished
- > Acc. to DIN 7422
- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Chrome-vanadium steel



Code	No.	⌀ mm	□"	□	↳ mm ◁	Tip length	Ø 1	kg
3300358	R62550410	4	1/2	12.5	55	17	22	0.060
3300359	R62550510	5	1/2	12.5	55	17	22	0.064
3300360	R62550610	6	1/2	12.5	55	17	22	0.064
3300361	R62550710	7	1/2	12.5	55	17	22	0.068
3300362	R62550810	8	1/2	12.5	55	17	22	0.068
3300363	R62550910	9	1/2	12.5	55	17	22	0.078
3300364	R62551010	10	1/2	12.5	55	17	22	0.080
3300365	R62551110	11	1/2	12.5	55	17	24	0.112
3300366	R62551210	12	1/2	12.5	55	17	24	0.112
3300367	R62551410	14	1/2	12.5	55	17	24	0.136
3300368	R62551710	17	1/2	12.5	55	17	26	0.174
3300369	R62551910	19	1/2	12.5	55	17	28	0.220

## R6255 XXXX

### SCREWDRIVER BIT SOCKET 1/2"

12.5mm  
1/2"

hexagon, metric, long

- > Pressed-in phosphated pin
- > Hand-operated, knurled grip
- > Drive end brightly polished
- > Acc. to DIN 7422
- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Chrome-vanadium steel



Code	No.	⌀ mm	□"	□	↳ mm ◁	Tip length	Ø 1	kg
3300377	R62550519	5	1/2	12.5	100	62	22	0.070
3300378	R62550619	6	1/2	12.5	100	62	22	0.075
3300379	R62550719	7	1/2	12.5	100	62	22	0.084
3300380	R62550819	8	1/2	12.5	100	62	22	0.090
3300381	R62551019	10	1/2	12.5	100	62	22	0.150
3300382	R62551219	12	1/2	12.5	100	62	24	0.190
3300383	R62551419	14	1/2	12.5	100	62	24	0.220
3300384	R62551719	17	1/2	12.5	100	62	26	0.228

## R6245XXXX SCREWDRIVER BIT SOCKET 1/2"



for recessed TX screws

- › Pressed-in phosphated pin
- › Hand-operated, knurled grip
- › Drive end brightly polished
- › Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- › Chrome-vanadium steel



Code	No.	☉	□"	□	↳ mm ◀	Tip length	Ø 1	↕
3300391	R62451310	T20	1/2	12.5	55	17	22	0.058
3300392	R62451410	T25	1/2	12.5	55	17	22	0.058
3300393	R62451510	T27	1/2	12.5	55	17	22	0.059
3300394	R62451610	T30	1/2	12.5	55	17	22	0.059
3300395	R62451810	T40	1/2	12.5	55	17	22	0.063
3300396	R62451910	T45	1/2	12.5	55	17	22	0.064
3300397	R62452110	T50	1/2	12.5	55	17	22	0.065
3300398	R62452210	T55	1/2	12.5	55	17	22	0.074
3300399	R62452310	T60	1/2	12.5	55	17	24	0.100

## R6245XXXX SCREWDRIVER BIT SOCKET 1/2"



for recessed TX head screws, long

- › Pressed-in phosphated pin
- › Hand-operated, knurled grip
- › Drive end brightly polished
- › Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- › Chrome-vanadium steel



Code	No.	☉	□"	□	↳ mm ◀	Tip length	Ø 1	↕
3300450	R62451319	T20	1/2	12.5	100	62	22	0.080
3300451	R62451419	T25	1/2	12.5	100	62	22	0.085
3300452	R62451519	T27	1/2	12.5	100	62	22	0.085
3300453	R62451619	T30	1/2	12.5	100	62	22	0.085
3300454	R62451819	T40	1/2	12.5	100	62	22	0.085
3300455	R62451919	T45	1/2	12.5	100	62	22	0.090
3300456	R62452119	T50	1/2	12.5	100	62	22	0.120
3300457	R62452219	T55	1/2	12.5	100	62	22	0.155
3300458	R62452319	T60	1/2	12.5	100	62	24	0.155

## R6270XXXX SCREWDRIVER BIT SOCKET 1/2"



for multi-point screws XZN, long

- › Pressed-in phosphated pin
- › Hand-operated, knurled grip
- › Drive end brightly polished
- › Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- › Chrome-vanadium steel



Code	No.	☉	□"	□	↳ mm ◀	Tip length	Ø 1	↕
3300471	R62700519	M5	1/2	12.5	100	62	22	0.070
3300472	R62700619	M6	1/2	12.5	100	62	22	0.075
3300473	R62700819	M8	1/2	12.5	100	62	22	0.090
3300474	R62701019	M10	1/2	12.5	100	62	22	0.150
3300475	R62701219	M12	1/2	12.5	100	62	24	0.190
3300476	R62701419	M14	1/2	12.5	100	62	24	0.170
3300477	R62701619	M16	1/2	12.5	100	62	26	0.190

Accessories 1/2" drive

**R6520 0049**

SLIDING T-BAR WITH SLIDER 1/2"



- > Acc. to DIN 3122, ISO 3315
- > Matt chrome-plated
- > For hand-operated sockets
- > Coupler based on DIN 3120 - A 12.5, ISO 1174, with ball lock
- > Chrome-vanadium steel



Code	No.	■ "	■	↳ mm ↳	⚖ kg
3300408	R65200049	1/2	12.5	250	0.368

**R6510 XXXX**

SOCKET EXTENSION 1/2"



- > Matt chrome-plated
- > For hand-operated sockets
- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Coupler based on DIN 3120 - A 12.5, ISO 1174, with ball lock
- > Chrome-vanadium steel



Code	No.	■ "	■	↳ mm ↳	⚖ kg
3300403	R65100014	1/2	12.5	75	0.100
3300404	R65100024	1/2	12.5	125	0.180
3300406	R65100049	1/2	12.5	250	0.430

**R6530 0012**

UNIVERSAL JOINT 1/2"



- > Screwed-on joint
- > Acc. to DIN 3123 - C 12.5
- > Matt chrome-plated
- > For hand-operated sockets
- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Coupler based on DIN 3120 - A 12.5, ISO 1174, with ball lock
- > Chrome-vanadium steel



Code	No.	■ "	■	□ "	□	↳ mm ↳	⚖ kg
3300407	R65300012	1/2	12.5	1/2	12.5	66.0	0.140

## R67131002 ADAPTER AND EXTENSION SET 6IN2

2 pieces

- > Push-through type square for dual-side use
- > Converter and extension
- > Reducer and extension
- > Matt chrome-plated
- > Knurled grip
- > For hand-operated sockets
- > Square drive as per DIN 3120, ISO 1174, with ball retention groove
- > Coupler in acc. with DIN 3120, ISO 1174, with ball locking device



Code	No.	Contents	
3300524	R67131002	Reducer and convertor 1/2" - 3/8" and 3/8" - 1/2" Extension 65 mm Reducer and convertor 3/8" - 1/4" and 1/4" - 3/8" Extension 50 mm	0.240

## R6730 0009 SOCKET EXTENSION PIECE 1/2" X 3/4"

square

- > Matt chrome-plated
- > For hand-operated sockets
- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Coupler as per DIN 3120 - B 20, ISO 1174, with locking pin
- > Chrome-vanadium steel



Code	No.					↳ mm	
3300449	R67300009	1/2	12.5	3/4	20	49	0.187

## R6750 0007 REDUCER 1/2" X 3/8"

square

- > Matt chrome-plated
- > For hand-operated sockets
- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Coupler based on DIN 3120 - A 10, ISO 1174, with ball lock
- > Chrome-vanadium steel



Code	No.					↳ mm	
3300430	R67500007	1/2	12.5	3/8	10	40	0.050

## R6710 0006 BIT ADAPTER 1/2"

- > Matt chrome-plated
- > For hand-operated sockets
- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Hex recess drive as per DIN 3126 - D 8 (5/16"), for bits
- > Clamping ring
- > Chrome-vanadium steel



Code	No.					↳ mm	
3300521	R67100006	1/2	12.5	5/16	8.0	38	0.056

3/4" square drive

Ratchets 3/4"

**R7000 0003**  
REVERSIBLE RATCHET 3/4"



- > Lever for reversible clockwise/anticlockwise operation
- > Sturdy with knurled grip
- > Acc. to DIN 3122, ISO 3315
- > Oval head
- > Matt chrome-plated surface
- > For sockets, accessories etc. with square drive as per DIN 3120 - D 20, ISO 1174, with locking pin
- > Chrome-vanadium steel



Code	No.	□"	□	↳ mm	°	Number of teeth	kg
3300514	R70000003	3/4	20	503	15	24	1.940

Sockets 3/4"

**R7100 XXXX**  
SOCKET 3/4"



hex, metric

- > Hand-operated, knurled grip
- > Drive end matt chrome-plated, driven end bright-polished
- > Acc. to DIN 3124, ISO 2725
- > Square drive as per DIN 3120 - D 20, ISO 1174, with drill hole for locking pin
- > Chrome-vanadium steel



Code	No.	□"	□	○ mm	Ø 1	Ø 2	↳ mm	kg
3300491	R71001909	3/4	20	19	29	36	50	0.160
3300492	R71002109	3/4	20	21	31	36	50	0.210
3300493	R71002209	3/4	20	22	32	36	50	0.210
3300494	R71002409	3/4	20	24	34	36	51	0.220
3300495	R71002709	3/4	20	27	38	36	52	0.210
3300496	R71002809	3/4	20	28	40	36	52	0.258
3300497	R71003010	3/4	20	30	42	36	54	0.250
3300498	R71003210	3/4	20	32	44	36	56	0.260
3300499	R71003310	3/4	20	33	46	36	56	0.280
3300500	R71003410	3/4	20	34	46	36	56	0.290
3300501	R71003611	3/4	20	36	50	45	58	0.350
3300502	R71003811	3/4	20	38	52	45	60	0.460
3300503	R71004112	3/4	20	41	56	45	64	0.550
3300504	R71004613	3/4	20	46	62	45	68	0.600
3300505	R71005013	3/4	20	50	68	45	72	0.810
3300506	R71005514	3/4	20	55	74	45	76	0.930
3300507	R71006014	3/4	20	60	80	45	78	1.114

## Accessories 3/4" drive

**R7520 0091**

## SLIDING T-BAR WITH SLIDER 3/4"

20mm  
3/4"

- > Acc. to DIN 3122, ISO 3315
- > Matt chrome-plated
- > For hand-operated sockets
- > Coupler as per DIN 3120 - D 20, ISO 1174, with locking pin
- > Chrome-vanadium steel



Code	No.	■ "	■	◀ mm ▶	⚖
3300513	R75200091	3/4	20	458	1.164

**R7510XXXX**

## SOCKET EXTENSION 3/4"

20mm  
3/4"

- > Matt chrome-plated
- > For hand-operated sockets
- > Square drive as per DIN 3120 - D 20, ISO 1174, with drill hole for locking pin
- > Coupler as per DIN 3120 - B 20, ISO 1174, with locking pin
- > Chrome-vanadium steel



Code	No.	■ "	■	◀ mm ▶	⚖
3300509	R75100039	3/4	20	200	0.640
3300510	R75100079	3/4	20	400	1.054

**R7530 0021**

## UNIVERSAL JOINT 3/4"

20mm  
3/4"

- > Screwed-on joint
- > Acc. to DIN 3123 - C 20
- > Matt chrome-plated
- > For hand-operated sockets
- > Square drive as per DIN 3120 - D 20, ISO 1174, with drill hole for locking pin
- > Coupler as per DIN 3120 - B 20, ISO 1174, with locking pin
- > Chrome-vanadium steel



Code	No.	■ "	■	□ "	□	◀ mm ▶	⚖
3300512	R75300021	3/4	20	3/4	20	107	0.584



## R77300011

### SOCKET EXTENSION PIECE 3/4" - 1"



- > Matt chrome-plated
- > For hand-operated sockets
- > Square drive as per DIN 3120 - D 20, ISO 1174, with drill hole for locking pin
- > Coupler as per DIN 3120 - B 25, ISO 1174, with locking pin
- > Chrome-vanadium steel



Code	No.	□"	□	■"	■	↳ mm ↳	⚖
3300511	R77300011	3/4	20	1	25	58	0.326

## R87500012

### REDUCER 1" X 3/4"



- > Matt chrome-plated
- > For hand-operated sockets
- > Square drive as per DIN 3120 - D 25, ISO 1174, with drill hole for locking pin
- > Coupler as per DIN 3120 - B 20, ISO 1174, with locking pin
- > Chrome-vanadium steel



Code	No.	□"	□	■"	■	↳ mm ↳	⚖
3300516	R87500012	1	25	3/4	20	69	0.400

## R77500009

### REDUCER 3/4" X 1/2"



- > Matt chrome-plated
- > For hand-operated sockets
- > Square drive as per DIN 3120 - D 20, ISO 1174, with drill hole for locking pin
- > Coupler based on DIN 3120 - A 12.5, ISO 1174, with ball lock
- > Chrome-vanadium steel



Code	No.	□"	□	■"	■	↳ mm ↳	⚖
3300515	R77500009	3/4	20	1/2	12.5	55	0.140

# SOCKET SETS

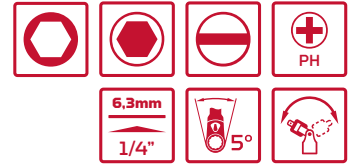
090-123



## 1/4" square drive

**R4900 4033**  
SOCKET SET 1/4"

32 pieces



- > Coupler based on DIN 3120 - A 6.3, ISO 1174, with ball lock
- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retention groove
- > **2C reversible ratchet 1/4" dopsleutel 1/4"; 6-kant:** metrisch lever for reversing clockwise/anticlockwise direction, push-button release, fine-toothed, oval head, dual-material handle for ease in handling, for sockets
- > **Square plug-in handle 1/4":** 1-component handle with female square
- > **Socket 1/4", hex:** metric, short, as per DIN 3124, ISO 2725
- > **Screwdriver bit socket 1/4", for hex screws:** with pressed-in, phosphated pin
- > **Screwdriver bit socket 1/4", slotted:** with pressed-in, phosphated pin
- > **Screwdriver bit socket 1/4" PH:** with pressed-in, phosphated pin
- > Socket extension 1/4"
- > **Sliding T-bar with slider 1/4":** as per DIN 3122, ISO 3315
- > **Universal joint 1/4":** screwed-on joint, acc. to DIN 3123 - C 6.3
- > **Adapter 1/4":** for driving sockets and sockets
- > Chrome-vanadium steel, matt satin chrome-plated
- > For hand-operated screw work
- > Red sheet-steel case with foam insert



Code	No.	Contents	L	W	D	pieces	kg
<b>3300000</b>	R49004033	1/4" 2C lever reversible ratchet, fine-toothed, 72 teeth   150 mm 1/4" square plug-in handle 165 mm 1/4" socket hexagon 4 4.5 5 5.5 6 7 8 9 10 11 12 13 25 mm 1/4" screwdriver bit socket in-hex 3 4 5 6 8 10   37 mm 1/4" screwdriver bit socket slotted 4 5.5 6.5   37 mm 1/4" screwdriver bit socket cross-head PH 0 1 2 3   37 mm 1/4" socket extension 50 100 mm 1/4" sliding T-bar with slider   115 mm 1/4" universal joint   32 mm Drive adapter 1/4" hex x 1/4" sq.   50 mm	318	147	46	32	1.140

# R49014033

## SOCKET SET 1/4"



32 pieces

- > Coupler based on DIN 3120 - A 6.3, ISO 1174, with ball lock
- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retention groove
- > **2C reversible ratchet 1/4"**: lever for reversing clockwise/anticlockwise direction, push-button release, fine-toothed, oval head, dual-material handle for ease in handling, for sockets
- > **Square plug-in handle 1/4"**: 1-component handle with female square
- > **Socket 1/4", hex**: metric, short, as per DIN 3124, ISO 2725
- > **Screwdriver bit socket 1/4", for hex screws**: with pressed-in, phosphated pin
- > **Screwdriver bit socket 1/4" TX**: with pressed-in, phosphated pin
- > Socket extension 1/4"
- > **Sliding T-bar with slider 1/4"**: as per DIN 3122, ISO 3315
- > **Universal joint 1/4"**: screwed-on joint, acc. to DIN 3123 - C 6.3
- > **Adapter 1/4"**: for driving sockets and sockets
- > Chrome-vanadium steel, matt satin chrome-plated
- > For hand-operated screw work
- > Red sheet-steel case with foam insert



Code	No.	Contents	L	W	D	pieces	📏
3300001	R49014033	1/4" 2C lever reversible ratchet, fine-toothed, 72 teeth   150 mm 1/4" square plug-in handle 165 mm 1/4" socket hexagon 4 4.5 5 5.5 6 7 8 9 10 11 12 13 25 mm 1/4" screwdriver bit socket in-hex 3 4 5 6 8 10   37 mm 1/4" screwdriver bit socket TX T10 T15 T20 T25 T27 T30 T40   37 mm 1/4" socket extension 50 100 mm 1/4" sliding T bar with slider   115 mm 1/4" universal joint   32 mm Drive adapter 1/4" hex x 1/4" sq.   50 mm	318	147	46	32	1.136

# R49044033

## SOCKET SET 1/4"



33 pieces

- > Coupler based on DIN 3120 - A 6.3, ISO 1174, with ball lock
- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retention groove
- > **2C swivel-head reversible ratchet 1/4"**: lever for reversing clockwise/anticlockwise direction, push-button release, fine-toothed, oval head, dual-material handle for ease in handling, for sockets
- > **Square plug-in handle 1/4"**: 1-component handle with female square
- > **Socket 1/4", hex**: metric, short, as per DIN 3124, ISO 2725
- > **Screwdriver bit socket 1/4", for hex screws**: with pressed-in, phosphated pin
- > **Screwdriver bit socket 1/4" TX**: with drill hole, with pressed-in, phosphated pin
- > Socket extension 1/4"
- > **Sliding T-bar with slider 1/4"**: as per DIN 3122, ISO 3315
- > **Universal joint 1/4"**: screwed-on joint, acc. to DIN 3123 - C 6.3
- > **Adapter 1/4"**: for driving sockets and sockets
- > **Bit adaptor 1/4"**: with in-hex and female square, for all bits and tools with 1/4" external hex
- > Chrome-vanadium steel, matt satin chrome-plated
- > For hand-operated screw work
- > Red sheet-steel case with foam insert



Code	No.	Contents	L	W	D	pieces	📏
3300004	R49044033	1/4" 2C swivel head reversible ratchet, fine-toothed, 72 teeth   150 mm 1/4" square plug-in handle 165 mm 1/4" socket hexagon 4 4.5 5 5.5 6 7 8 9 10 11 12 13 25 mm 1/4" screwdriver bit socket in-hex 3 4 5 6 8 10   37 mm 1/4" socket TX with hole T10 T15 T20 T25 T27 T30 T40   37 mm 1/4" socket extension 50 100 mm 1/4" sliding T bar with slider   115 mm 1/4" universal joint   32 mm Drive adapter 1/4" hex x 1/4" sq.   50 mm Bit adaptor 1/4" sq. x 1/4" hex   25 mm	318	147	46	33	1.164

# R49003016

## SOCKET SET 1/4"



16 pieces

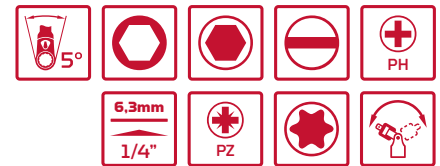
- > Coupler based on DIN 3120 - A 6.3, ISO 1174, with ball lock
- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retention groove
- > **2C reversible ratchet 1/4"**: lever for reversing clockwise/anticlockwise direction, push-button release, fine-toothed, oval head, dual-material handle for ease in handling, for sockets
- > **Socket 1/4", hex**: metric, short, as per DIN 3124, ISO 2725
- > Socket extension 1/4"
- > **Sliding T-bar with slider 1/4"**: as per DIN 3122, ISO 3315
- > **Bit adaptor 1/4"**: with in-hex and female square, for all bits and tools with 1/4" external hex
- > Chrome-vanadium steel, matt satin chrome-plated
- > For hand-operated screw work
- > Plastic case in GEDORE red Design
- > Clamp-secured tools
- > Metal hinges/fastener



Code	No.	Contents	L	W	D	pieces	kg
3300050	R49003016	1/4" 2C lever reversible ratchet, fine-toothed, 72 teeth   150 mm 1/4" socket hexagon 4 4.5 5 5.5 6 7 8 9 10 11 12 13 25 mm 1/4" socket extension 100 mm 1/4" sliding T-bar with slider   115 mm Bit adaptor 1/4" sq. x 1/4" hex   25 mm	190	110	52	16	0.620

# R49003033

## SOCKET SET 1/4"



33 pieces

- > Coupler based on DIN 3120 - A 6.3, ISO 1174, with ball lock
- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retention groove
- > **2C reversible ratchet 1/4"**: lever for reversing clockwise/anticlockwise direction, push-button release, fine-toothed, oval head, dual-material handle for ease in handling, for sockets
- > **Square plug-in handle 1/4"**: 1-component handle with female square
- > **Socket 1/4", hex**: metric, short, as per DIN 3124, ISO 2725
- > **Screwdriver bit socket 1/4", for hex screws**: with pressed-in, phosphated pin
- > **Screwdriver bit socket 1/4", slotted**: with pressed-in, phosphated pin
- > **Screwdriver bit socket 1/4" PH**: with pressed-in, phosphated pin
- > **Screwdriver bit socket 1/4" PZ**: with pressed-in, phosphated pin
- > **Screwdriver bit socket 1/4" TX**: with pressed-in, phosphated pin
- > Socket extension 1/4"
- > **Universal joint 1/4"**: screwed-on joint, acc. to DIN 3123 - C 6.3
- > **Bit adaptor 1/4"**: with in-hex and female square, for all bits and tools with 1/4" external hex
- > Chrome-vanadium steel, matt satin chrome-plated
- > For hand-operated screw work
- > Plastic case in GEDORE red Design
- > Clamp-secured tools
- > Metal hinges/fastener

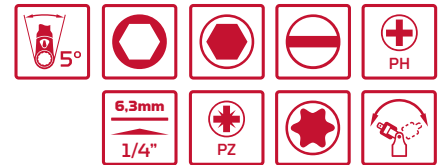


Code	No.	Contents	L	W	D	pieces	kg
3300051	R49003033	1/4" 2C lever reversible ratchet, fine-toothed, 72 teeth   150 mm 1/4" square plug-in handle 165 mm 1/4" socket hexagon 4 4.5 5 5.5 6 7 8 9 10 11 12 13 25 mm 1/4" screwdriver bit socket in-hex 4 4 5 6   37 mm 1/4" screwdriver bit socket slotted 4 5.5 6.5   37 mm 1/4" screwdriver bit socket cross-head PH 1 2   37 mm 1/4" screwdriver bit socket cross-head PZ 1 2   37 mm 1/4" screwdriver bit socket TX T15 T20 T25 T30   37 mm 1/4" socket extension 50 100 mm 1/4" universal joint   32 mm Bit adaptor 1/4" sq. x 1/4" hex   25 mm	300	180	52	33	1.310

# R49003046

## SOCKET SET 1/4"

46 pieces



- > Coupler based on DIN 3120 - A 6.3, ISO 1174, with ball lock
- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retention groove
- > **2C reversible ratchet 1/4"**: lever for reversing clockwise/anticlockwise direction, push-button release, fine-toothed, oval head, dual-material handle for ease in handling, for sockets
- > **Square plug-in handle 1/4"**: 1-component handle with female square
- > **Socket 1/4", hex**: metric, short, as per DIN 3124, ISO 2725
- > **Screwdriver bit socket 1/4", for hex screws**: with pressed-in, phosphated pin
- > **Screwdriver bit socket 1/4", slotted**: with pressed-in, phosphated pin
- > **Screwdriver bit socket 1/4" PH**: with pressed-in, phosphated pin
- > **Screwdriver bit socket 1/4" PZ**: with pressed-in, phosphated pin
- > **Screwdriver bit socket 1/4" TX**: with pressed-in, phosphated pin
- > Socket extension 1/4"
- > Flexible socket extension 1/4"
- > **Sliding T-bar with slider 1/4"**: as per DIN 3122, ISO 3315
- > **Universal joint 1/4"**: screwed-on joint, acc. to DIN 3123 - C 6.3
- > **Bit adaptor 1/4"**: with in-hex and female square, for all bits and tools with 1/4" external hex
- > **Hexagon socket key set**: as per DIN ISO 2936
- > Chrome-vanadium steel, matt satin chrome-plated
- > For hand-operated screw work
- > Plastic case in GEDORE red Design
- > Clamp-secured tools
- > Metal hinges/fastener

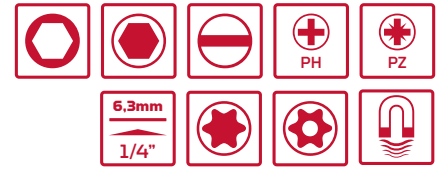


Code	No.	Contents	L	W	D	pieces	
3300052	R49003046	1/4" 2C lever reversible ratchet, fine-toothed, 72 teeth   150 mm 1/4" square plug-in handle 165 mm 1/4" socket hexagon 4 4.5 5 5.5 6 7 8 9 10 11 12 13 14   25 mm 1/4" screwdriver bit socket in-hex 3 4 5 6 7 8   37 mm 1/4" screwdriver bit socket slotted 4 5.5 6.5   37 mm 1/4" screwdriver bit socket cross-head PH 1 2 3   37 mm 1/4" screwdriver bit socket cross-head PZ 1 2   37 mm 1/4" screwdriver bit socket TX T10 T15 T20 T25 T27 T30 T40   37 mm 1/4" socket extension 50 100 mm 1/4" flexible socket extension 150 mm 1/4" sliding T-bar with slider   115 mm 1/4" universal joint   32 mm Bit adapter 1/4" sq. x 1/4" hex   25 mm Hexagon socket key set 1.27 1.5 2 2.5 mm	300	180	52	46	1.570

# R49005037

## TOOL SET T-HANDLE WITH RATCHET 1/4"

37 pieces



- > Handle for two working positions
- > Dual-material handle, for easy handling
- > In-hex for direct mounting of bits as per DIN 3126 - D 6.3
- > Ring for reversing clockwise/anticlockwise direction
- > Fine-toothed
- > 9x long all-steel blades with square drive and sockets
- > 1x long all-steel blade with square drive as bit holder or extension
- > Chrome-vanadium steel, satin matt chrome-plated
- > Bits in extra plastic holders
- > Plastic case with foam insert

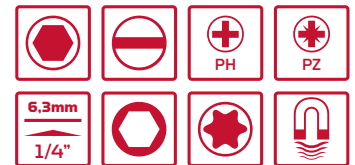


Code	No.	Contents	L	W	D	pieces	📦
3300025	R49005037	2C ratchet hand grip with swivel 1/4" in-hex blade, ring change Socket hexagon 6 7 8 9 10 11 12 13 14 135 mm Bit holder 1/4" hex x 1/4" hex   135 mm 1/4" bit hexagon 3 4 5 6 8 mm   25 mm 1/4" bit slotted 4.5 5.5 6.5   25 mm 1/4" bit cross-head PH 1 2 2 3   25 mm 1/4" bit cross-head PZ 1 2 2 3   25 mm 1/4" bit TX T10 T15 T20 T25 T30 T40   25 mm 1/4" bit TX with drill hole T10 T15 T20 T25   25 mm	240	150	50	37	1.335

# R49005023

## BIT RATCHET SET 1/4" WITH ADAPTER COMPACT

23 pieces



- > Coupler based on DIN 3120 - A 6.3, ISO 1174, with ball lock
- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retention groove
- > **Socket 1/4", hex:** metric, short, as per DIN 3124, ISO 2725
- > **Bit holder with magnet 1/4":** machine-operated, as per DIN 7427
- > **Adapter 1/4":** for driving sockets and sockets
- > **Bit ratchet:** lever for reversing clockwise/anticlockwise direction, fine-toothed, oval head, hexagon for direct fitting of bits based on DIN 3126 - D 6,3, with holding spring, sturdy all-steel design
- > **Bit:** in-hex, slotted, PH, PZ, TX
- > For hand-operated screw work
- > Rugged plastic box with belt clip
- > Transparent lid with clamp fastener
- > Chrome-vanadium steel, matt satin chrome-plated



Code	No.	Contents	L	W	D	pieces	📦
3300026	R49005023	Bit ratchet 1/4" reversible, with drive adapter Socket hexagon 6 7 8 10 11 12 13mm 1/4" bits in-hex 4 5 6 mm 1/4" bits slotted 5.5 mm 1/4" bits cross-head PH 1 2 1/4" bits cross-head PZ 1 2 1/4" bits TX T15 T20 T25 T27 T30 Adapter 1/4" square x 1/4" hexagon Bit holder 1/4" hex x 1/4" hex with magnet   67 mm	105	70	50	23	0.330

3/8" square drive

**R59003026**  
**SOCKET SET**  
**3/8"**

26 pieces



- > Coupler based on DIN 3120 - A 10, ISO 1174, with ball lock
- > Square drive as per DIN 3120 - C 10, ISO 1174, with ball retention groove
- > **2C reversible ratchet 3/8"**: lever for reversing clockwise/anticlockwise direction, push-button release, fine-toothed, oval head, dual-material handle for ease in handling, for sockets
- > **Socket 3/8"**: hex, metric, short, as per DIN 3124, ISO 2725
- > Spark plug socket 3/8" with pressed-in holding rubber and extra drive hex Size 19
- > Spark plug socket 3/8" with pressed-in holding rubber and extra drive hex Size 22
- > Socket extension 3/8"
- > **Sliding T-bar with slider 3/8"**: as per DIN 3122, ISO 3315
- > **Universal joint 3/8"**: screwed-on joint, acc. to DIN 3123 - C 10
- > Reducer 3/8" to 1/4"
- > Chrome-vanadium steel, matt satin chrome-plated
- > For hand-operated screw work
- > Plastic case in GEDORE red Design
- > Clamp-secured tools
- > Metal hinges/fastener



Code	No.	Contents	L	W	D	pieces	
3300053	R59003026	3/8" 2C lever reversible ratchet, fine-toothed, 72 teeth   180 mm 3/8" socket hexagon 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 24 mm 3/8" spark plug socket 16 21 mm   65 mm 3/8" socket extension 75 150 mm 3/8" sliding T bar with slider 200 mm 3/8" universal joint 48 mm Reducer 3/8" - 1/4"   27 mm	300	180	52	26	2.440



# R59003059

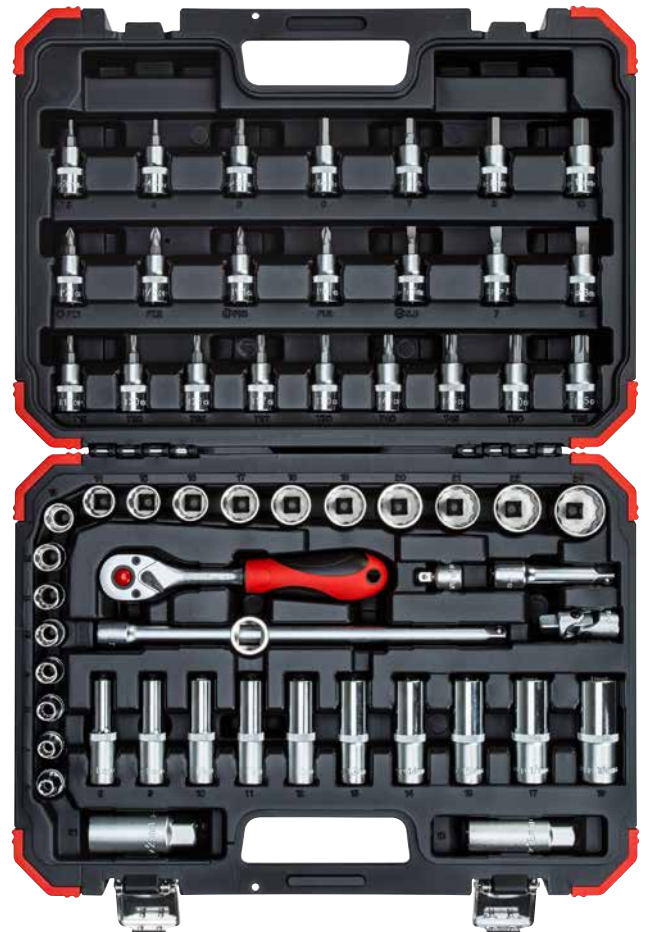
## SOCKET SET

### 3/8"

59 pieces



- > Coupler based on DIN 3120 - A 10, ISO 1174, with ball lock
- > Square drive as per DIN 3120 - C 10, ISO 1174, with ball retention groove
- > **2C reversible ratchet 3/8"**: lever for reversing clockwise/anticlockwise direction, push-button release, fine-toothed, oval head, dual-material handle for ease in handling, for sockets
- > **Socket 3/8"**: bi-hex, metric, short, as per DIN 3124, ISO 2725
- > **Socket 3/8"**: hex, metric, long, as per DIN 3124, ISO 2725
- > Spark plug socket 3/8" with pressed-in holding rubber and extra drive hex Size 19
- > Spark plug socket 3/8" with pressed-in holding rubber and extra drive hex Size 22
- > **Screwdriver bit socket 3/8"**: for hex screws, with pressed-in, phosphated pin
- > **Screwdriver bit socket 3/8"**: slotted, with pressed-in, phosphated pin
- > **Screwdriver bit socket 3/8" PH**: with pressed-in, phosphated pin
- > **Screwdriver bit socket 3/8" PZ**: with pressed-in, phosphated pin
- > **Screwdriver bit socket 3/8" TX**: with pressed-in, phosphated pin
- > Socket extension 3/8"
- > **Convector/slider 3/8" x 1/2"**: for driving sockets and screwdriver bit sockets
- > **Universal joint 3/8"**: screwed-on joint, acc. to DIN 3123 - C 10
- > Reducer 3/8" to 1/4"
- > Chrome-vanadium steel, matt satin chrome-plated
- > For hand-operated screw work
- > Plastic case in GEDORE red Design
- > Clamp-secured tools
- > Metal hinges/fastener



Code	No.	Contents	L	W	D	pieces	kg
3300054	R59003059	3/8" 2C lever reversible ratchet, fine-toothed, 72 teeth   180 mm 3/8" socket hexagon bi-hex 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 24 mm 3/8" socket hexagon hex long 8 9 10 11 12 13 14 15 17 19   L.63mm 3/8" spark plug socket 16 21 mm   65 mm 3/4" screwdriver bit socket in-hex 3 4 5 6 7 8 10   48 mm 3/4" screwdriver bit socket slotted 5.5 7 8   48 mm 3/8" screwdriver bit socket cross-head PH 1 2   48 mm 3/8" screwdriver bit socket cross-head PZ 1 2   48 mm 3/8" screwdriver bit socket TX T25 T27 T30 T40 T45 T50 T55   48 mm 3/8" socket extension 75 250 mm 3/8" universal joint   49 mm Reducer 3/8" - 1/4"   27 mm Socket extension piece/slider 3/8" x 1/2"   44 mm	383	272	80	59	4.8

# R58003002

## SCREWDRIVER BIT SOCKET SET 3/8" TX



10 pieces

- > Screwdriver bit socket 3/8": for recessed TX screws, square drive in acc. with DIN 3120 - C 10, ISO 1174, with ball retention groove
- > Long blades
- > Matt chrome-plated
- > Chrome-vanadium steel
- > Clamp-secured tools
- > Sturdy plastic case



Code	No.	Contents	L	W	D	pieces	kg
3301576	R58003002	Screwdriver bit socket TX T10 T15 T20 T25 T27 T30 T40 T45 T50 T55   200 mm	295	195	54	10	0.800

# R19153000

## EXTRACTOR SET 3/8"



14 pieces

- > For slackening and removing bolts and damaged screws
- > Anticlockwise cutting thread with 6 cutting edges tapering together
- > Square drive acc. to DIN 3120 - C 10, ISO 1174, with ball retention groove
- > Hexagon head at the sockets as alternative drive
- > **Hand-operated**
- > Special compact design
- > Special steel
- > In a robust plastic case



Code	No.	Contents	L	W	D	pieces	kg
3301563	R19153000	3/8": 6,3 mm (1/4") 8 mm (5/16") 9,5 mm (3/8") 10 mm (7/16") 12 mm 12,5 mm (1/2") 13 mm 14 mm (9/16") 16 mm (5/8") 17 mm 17,5 mm (11/16") 19 mm (3/4") Punch	190	110	40	14	0.730

## 1/2" square drive

### R69004024 SOCKET SET 1/2"



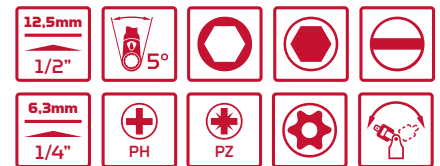
24 pieces

- > Coupler based on DIN 3120 - A 12.5, ISO 1174, with ball lock
- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > **2C reversible ratchet 1/2"**: lever for reversing clockwise/anticlockwise direction, push-button release, fine-toothed, oval head, dual-material handle for ease in handling, for sockets
- > **Socket 1/2", hex**: metric, short, as per DIN 3124, ISO 2725
- > Socket extension 1/2"
- > **Sliding T-bar with slider 1/2"**: as per DIN 3122, ISO 3315
- > **Universal joint 1/2"**: screwed-on joint, acc. to DIN 3123 - C 12.5
- > **Bit adaptor 1/2"**: with in-hex and female square, for all bits and tools with 5/16" external hex
- > Chrome-vanadium steel, matt satin chrome-plated
- > For hand-operated screw work
- > Red sheet-steel case with foam insert



Code	No.	Contents	L	W	D	pieces	kg
330006	R69004024	1/2" 2C lever reversible ratchet, fine-toothed, 72 teeth   250 mm 1/2" socket hexagon 10 11 12 13 14 15 16 17 18 19 20 21 22 24 27 30 32 1/2" socket extension 75 125 250 mm 1/2" universal joint   66 mm 1/2" sliding T bar with slider 250 mm Bit adaptor 1/4" square x 5/16" hex   38 mm	575	187	51	24	5.344

### R46004049 SOCKET SET 1/4" + 1/2"



49 pieces

- > Coupler in acc. with DIN 3120, ISO 1174, with ball locking device
- > Square drive as per DIN 3120, ISO 1174, with ball retention groove
- > **2C reversible ratchet**: lever for reversing clockwise/anticlockwise direction, push-button release, fine-toothed, oval head, dual-material handle for ease in handling, for sockets
- > **Socket hex**: metric, short, as per DIN 3124, ISO 2725
- > **Screwdriver bit socket 1/4", for hex screws**: with pressed-in, phosphated pin
- > **Screwdriver bit socket 1/4", slotted**: with pressed-in, phosphated pin
- > **Screwdriver bit socket 1/4" PH**: with pressed-in, phosphated pin
- > **Screwdriver bit socket 1/4" PZ**: with pressed-in, phosphated pin
- > **Screwdriver bit socket 1/4" TX**: with drill hole, with pressed-in, phosphated pin
- > Socket extension
- > **Universal joint**: screwed-on joint, acc. to DIN 3123 - C 6.3
- > **Bit adaptor 1/2" with in-hex and female square**: for all bits and tools with 5/16" external hex
- > Chrome-vanadium steel, matt satin chrome-plated
- > For hand-operated screw work
- > Red sheet-steel case with foam insert



Code	No.	Contents	L	W	D	pieces	kg
3300010	R46004049	1/4" 2C lever reversible ratchet, fine-toothed, 72 teeth   150 mm 1/4" socket hexagon 4 4.5 5 5.5 6 7 8 9 10 11 12 13 25 mm 1/4" screwdriver bit socket in-hex 4 5 6 8   37 mm 1/4" screwdriver bit socket slotted 5.5   37 mm 1/4" screwdriver bit socket cross-head PH 2   37 mm 1/4" screwdriver bit socket cross-head PZ 2   37 mm 1/4" screwdriver bit socket TX with drill hole T10 T15 T20 T25 T27 T30 T40   37 mm 1/4" socket extension 50 100 mm 1/4" universal joint   32 mm 1/2" 2C lever reversible ratchet, fine-toothed, 72 teeth   250 mm 1/2" socket hexagon 10 11 12 13 14 15 16 17 18 19 21 22 24 1/2" socket extension 75 125 250 mm 1/2" universal joint   66 mm Bit adaptor 1/4" square x 5/16" hex   38 mm	575	187	51	49	5.142

# R69003024

## SOCKET SET 1/2"



24 pieces

- > Coupler based on DIN 3120 - A 12.5, ISO 1174, with ball lock
- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > **2C reversible ratchet 1/2"**: lever for reversing clockwise/anticlockwise direction, push-button release, fine-toothed, oval head, dual-material handle for ease in handling, for sockets
- > **Socket 1/2", hex**: metric, short, as per DIN 3124, ISO 2725
- > Spark plug socket 1/2" with pressed-in holding rubber
- > Spark socket 1/2" with pressed-in holding rubber and extra drive hex Size 24
- > Socket extension 1/2"
- > Sliding T-bar with slider 1/2", as per DIN 3122, ISO 3315
- > **Universal joint 1/2"**: screwed-on joint, acc. to DIN 3123 - C 12.5
- > Chrome-vanadium steel, matt satin chrome-plated
- > For hand-operated screw work
- > Plastic case in GEDORE red Design
- > Clamp-secured tools
- > Metal hinges/fastener



Code	No.	Contents	L	W	D	pieces	kg
3300055	R69003024	1/2" 2C lever reversible ratchet, fine-toothed, 72 teeth   250 mm 1/2" socket hexagon 10 11 12 13 14 15 16 17 18 19 20 21 22 24 27 30 32 1/2" spark plug socket 16 21 mm   65 mm 1/2" socket extension 125 250 mm 1/2" universal joint   66 mm 1/2" sliding T bar with slider 250 mm	383	272	80	24	4.430

# R69013024

## SOCKET SET 1/2"



24 pieces

- > Coupler based on DIN 3120 - A 12.5, ISO 1174, with ball lock
- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > **2C reversible ratchet 1/2"**: lever for reversing clockwise/anticlockwise direction, push-button release, fine-toothed, oval head, dual-material handle for ease in handling, for sockets
- > **Socket 1/2", bi-hex**: metric, short, as per DIN 3124, ISO 2725
- > Socket extension 1/2"
- > **Convertor/slider 3/8" x 1/2"**: for driving sockets and screwdriver bit sockets
- > Chrome-vanadium steel, matt satin chrome-plated
- > For hand-operated screw work
- > Plastic case in GEDORE red Design
- > Clamp-secured tools
- > Metal hinges/fastener



Code	No.	Contents	L	W	D	pieces	kg
3300056	R69013024	1/2" 2C lever reversible ratchet, fine-toothed, 72 teeth   250 mm 1/2" socket bi-hex 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 26 27 28 30 32 1/2" socket extension 125 250 mm Socket extension piece/slider 3/8" x 1/2"   44 mm	383	272	80	24	4.750

# R46003092

## SOCKET SET

### 1/4" + 1/2"

92 pieces



- > Coupler in acc. with DIN 3120, ISO 1174, with ball locking device
- > Square drive as per DIN 3120, ISO 1174, with ball retention groove
- > **2C reversible ratchet:** lever for reversing clockwise/anticlockwise direction, push-button release, fine-toothed, oval head, dual-material handle for ease in handling, for sockets
- > **Square plug-in handle 1/4":** 1-component handle with female square
- > **Socket 1/4" + 1/2":** hex, metric, as per DIN 3124, ISO 2725
- > Spark plug socket 1/2" with pressed-in holding rubber and extra drive hex Size 23
- > Socket extension 1/4"+1/2"
- > **Sliding T-bar with slider 1/4":** as per DIN 3122, ISO 3315
- > **Universal joint 1/4" + 1/2":** screwed-on joint, as per DIN 3123 - C 12.5
- > **Convertor/slider 3/8" x 1/2":** for driving sockets and screwdriver bit sockets
- > **Bit adaptor 1/4":** with in-hex and female square, for all bits and tools with 1/4" external hex
- > **Bit adaptor 1/2":** with in-hex and female square, for all bits and tools with 5/16" external hex
- > **Bit holder with magnet 1/4":** machine-operated, as per DIN 7427
- > **Bit 1/4":** hex, slotted, PH, PZ, TX for holder as per DIN ISO 1173 - D 6,3
- > **Bit 5/16":** TX for holder as per DIN 1173, ISO 8
- > **Double swivel-head wrench:** bi-hex, metric, screwed on joint
- > **Combination spanner:** as per DIN 3113, Form A, ISO 3318, ISO 7738, 15° ring side angle, 15° jaw position
- > **Hexagon socket key set:** as per DIN ISO 2936
- > Plastic magazine for small parts
- > For hand-operated screw work
- > Chrome-vanadium steel, matt satin chrome-plated
- > Plastic case in GEDORE red Design
- > Clamp-secured tools
- > Metal hinges/fastener



Code	No.	Contents	L	W	D	pieces	📏
3300062	R46003092	1/4" 2C lever reversible ratchet, fine-toothed, 72 teeth   150 mm 1/4" square plug-in handle 165 mm 1/4" socket hexagon 4 4.5 5 5.5 6 7 8 9 10 11 12 13 mm 1/4" socket hexagon 4 5 6 7 8 9 10 11 12 13mm   50 mm 1/4" socket extension 50 100 mm 1/4" sliding T-bar with slider   115 mm 1/4" universal joint   32 mm Bit holder 1/4" hex x 1/4" hex with magnet   60 mm Bit adapter 1/4" sq. x 1/4" hex   25 mm Drive adapter 1/4" hex x square with ball lock   25 mm 1/4" bits in-hex 3 4 5 6 8 10   25 mm 1/4" bits slotted 4 5.5 7   25 mm 1/4" bits cross-head PH 0 1 2 3 4   25 mm 1/4" bits cross-head PZ 1 2 3   25 mm 1/4" bits TX T8 T10 T15 T20 T25 T27 T30 T40   25 mm 5/16" bits socket TX T45 T50 T55   30 mm 1/2" 2C lever reversible ratchet, fine-toothed, 72 teeth   250 mm 1/2" socket hexagon 10 11 12 13 6 15 17 19 22 24 27 30 32 mm 1/2" spark plug socket 21 mm (13/16")   65 mm 1/2" socket extension 125 250 mm 1/2" universal joint   65 mm Socket extension piece/slider 3/8" x 1/2"   44 mm Bit adapter 1/4" square x 5/16" hex   38 mm Double swivel head wrenches 8x9 10x11 12x13 14x15 mm Combination spanners 8 10 12 13 14 17mm Hexagon socket key 1.5, 2 2.5 mm	383	272	80	92	5.850

# R46003094

## SOCKET SET

1/4" + 1/2"

94 pieces

- > Coupler in acc. with DIN 3120, ISO 1174, with ball locking device
- > Square drive as per DIN 3120, ISO 1174, with ball retention groove
- > **2C reversible ratchet:** lever for reversing clockwise/anticlockwise direction, push-button release, fine-toothed, oval head, dual-material handle for ease in handling, for sockets
- > **Square plug-in handle 1/4":** 1-component handle with female square
- > **Socket 1/4" + 1/2":** hex, metric, short, as per DIN 3124, ISO 2725
- > **Socket 1/4" + 1/2":** hex, metric, long, as per DIN 3124, ISO 2725
- > Spark plug socket 1/2" with pressed-in holding rubber
- > Spark plug socket 1/2" with pressed-in holding rubber and extra drive hex Size 24
- > **Screwdriver bit socket 1/4", for hex screws:** with pressed-in, phosphated pin
- > **Screwdriver bit socket 1/4", slotted:** with pressed-in, phosphated pin
- > **Screwdriver bit socket 1/4" PH:** with pressed-in, phosphated pin
- > **Screwdriver bit socket 1/4" PZ:** with pressed-in, phosphated pin
- > **Screwdriver bit socket 1/4" TX:** with pressed-in, phosphated pin
- > Socket extension 1/4"+1/2"
- > **Sliding T-bar with slider 1/4":** as per DIN 3122, ISO 3315
- > **Universal joint 1/4" + 1/2":** screwed-on joint, as per DIN 3123 - C 12.5
- > **Convertor/slider 3/8" x 1/2":** for driving sockets and screwdriver bit sockets
- > Bit adaptor 1/2", with female square and in-hex, for all bits and tools with 5/16" external hex
- > **Bit 5/16":** hex, slotted, PH, PZ, TX for holder as per DIN ISO 1173 - D 8
- > **Hexagon socket key set:** as per DIN ISO 2936
- > For hand-operated screw work
- > Chrome-vanadium steel, matt satin chrome-plated
- > Plastic case in GEDORE red Design
- > Clamp-secured tools
- > Metal hinges/fastener



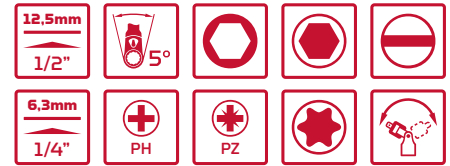
Code	No.	Contents	L	W	D	pieces	€
3300057	R46003094	1/4" 2C lever reversible ratchet, fine-toothed, 72 teeth   150 mm 1/4" square plug-in handle 165 mm 1/4" socket hexagon 4 4.5 5 5.5 6 7 8 9 10 11 12 13 14   25 mm 1/4" screwdriver bit socket in-hex 4 4.5 6   37 mm 1/4" screwdriver bit socket slotted 4 5.5 6.5   37 mm 1/4" screwdriver bit socket cross-head PH 1 2   37 mm 1/4" screwdriver bit socket cross-head PZ 1 2   37 mm 1/4" screwdriver bit socket TX T8 T10 T15 T20 T25 T27 T30   37 mm 1/4" socket extension 50 100 mm 1/4" sliding T-bar with slider   115 mm 1/4" universal joint   32 mm 5/16" bits in-hex 8 10 12 14   30 mm 5/16" bits slotted 8 10 12   30 mm 5/16" bits cross-head PH 3 4   30 mm 5/16" bits cross-head PZ 3 4   30 mm 5/16" bits TX T40 T45 T50 T55   30 mm 1/2" 2C lever reversible ratchet, fine-toothed, 72 teeth   250 mm 1/2" socket hex 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 27 28 30 32 1/2" socket hexagon 14 15 17 19   77 mm 1/2" spark plug socket 16 21 mm   65 mm 1/2" socket extension 125 250 mm 1/2" universal joint   66 mm Socket extension piece/slider 3/8" x 1/2"   44 mm Bit adapter 1/4" square x 5/16" hex   38 mm Hexagon socket key set 1.5, 2 2.5 mm	383	272	80	94	6.770

# R46003100

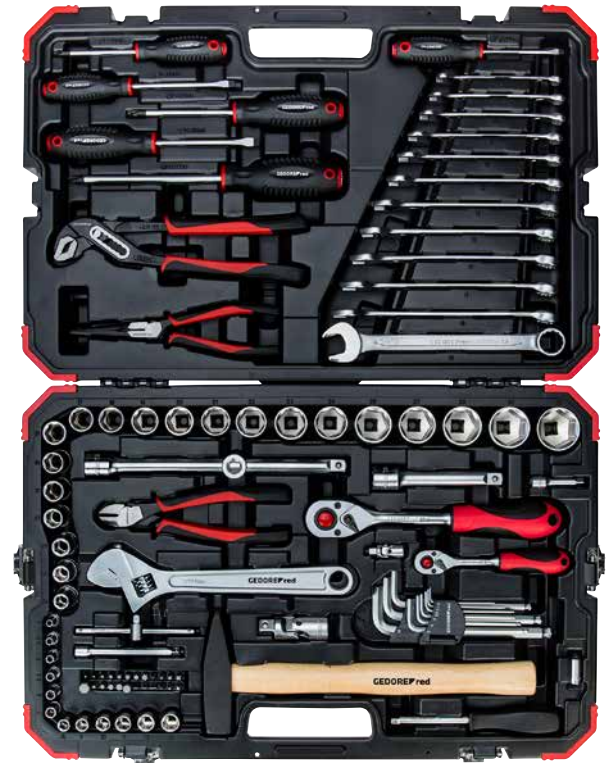
## SOCKET SET

### 1/4" + 1/2"

100 pieces



- > Coupler in acc. with DIN 3120, ISO 1174, with ball locking device
- > Square drive as per DIN 3120, ISO 1174, with ball retention groove
- > **2C reversible ratchet:** lever for reversing clockwise/anticlockwise direction, push-button release, fine-toothed, oval head, dual-material handle for ease in handling, for sockets
- > **Socket 1/4" + 1/2":** hex, metric, as per DIN 3124, ISO 2725
- > Socket extension 1/4"+1/2"
- > **Sliding T-bar with slider 1/4":** as per DIN 3122, ISO 3315
- > **Universal joint 1/4" + 1/2":** screwed-on joint, as per DIN 3123 - C 12.5
- > **Bit adaptor 1/4":** with female square and in-hex, for all bits and tools with 1/4" external hex
- > **Bit 1/4":** hex, slotted, PH, PZ, TX fits holder as per DIN ISO 1173 - D 6,3
- > **Combination spanner:** as per DIN 3113, Form A, ISO 3318, ISO 7738, 15° ring side angle, 15° jaw position
- > **Hexagon socket key set:** 9-piece, in the plastic socket holder, with ball head, for in-hex screws
- > **Adjustable wrench:** 15° jaw position, head polished with laser-marked scale
- > 1C screwdriver slotted, PH
- > **Side cutter:** dual-material handle, hands-friendly transfer of force
- > **Straight telephone pliers:** straight gripping surfaces, toothed lengthways, dual-material handle, hands-friendly transfer of force
- > **Water pump pliers, 7-setting adjustment:** head and "Gewerbe" polished, dual-material handle, hands-friendly transfer of force
- > **Engineers' hammer:** forged hammer head, in black, of tempered steel
- > Plastic case in GEDORE red Design
- > Clamp-secured tools
- > Metal hinges/fastener



Code	No.	Contents	L	W	D	pieces	kg
3300063	R46003100	1/4" 2C lever reversible ratchet, fine-toothed, 72 teeth   150 mm 1/4" square plug-in handle 165 mm 1/4" socket hexagon 4 4.5 5 5.5 6 7 8 9 10 11 12 13 mm 1/4" socket extension 50 100 mm 1/4" sliding T-bar with slider   115 mm 1/4" universal joint   32 mm Bit adapter 1/4" sq. x 1/4" hex   25 mm 1/4" bits in-hex 3 4 5 6 8 10   25 mm 1/4" bits slotted 4 5.5 7   25 mm 1/4" bits cross-head PH 1 2 3 4   25 mm 1/4" bits cross-head PZ 1 2 3   25 mm 1/4" bits TX T8 T10 T15 T20 T25 T27 T30 T40   25 mm 1/2" 2C lever reversible ratchet, fine-toothed, 72 teeth   250 mm 1/2" socket hex 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 26 27 28 30 32 mm 1/2" socket extension 125 250 mm 1/2" universal joint   65 mm Socket extension piece/slider 3/8" x 1/2"   44 mm Combination spanners 8 9 10 11 12 13 14 15 16 17 18 19 mm Hexagon socket key set 1.5 2 2.5 3 4 5 6 8 10 mm Adjustable spanner 10 "250 mm Screwdriver slotted 4 5.5 6.5 Screwdriver cross-head PH 1 2 3 Side cutter 180 mm Telephone pliers 200 mm Water pump pliers 10" 250 mm Hammer 500 g	552	360	100	100	10.000

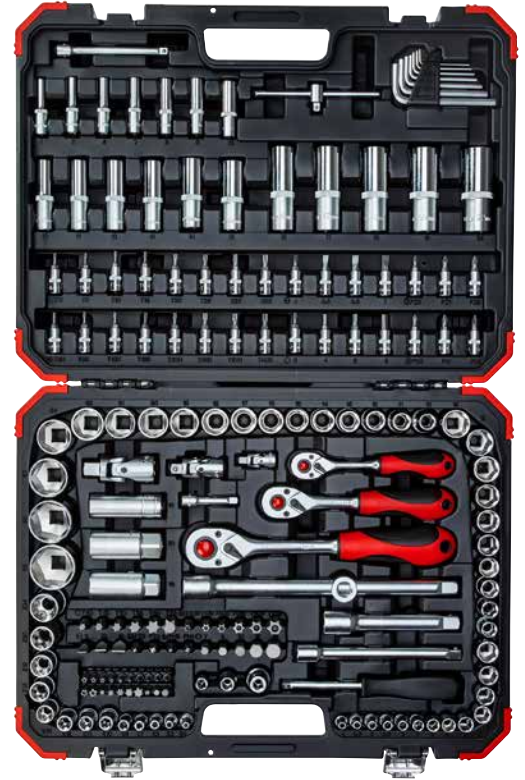
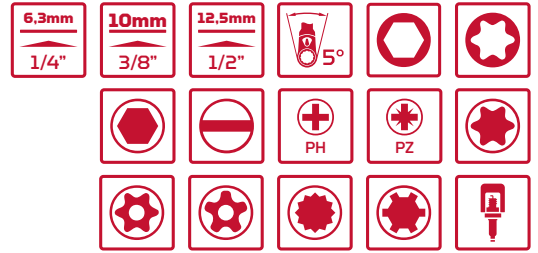
# R45603172

## SOCKET SET

### 1/4" + 3/8" + 1/2"

172 pieces

- > Coupler in acc. with DIN 3120, ISO 1174, with ball locking device
- > Square drive as per DIN 3120, ISO 1174, with ball retention groove
- > **2C reversible ratchet:** lever for reversing clockwise/anticlockwise direction, push-button release, fine-toothed, oval head, dual-material handle for ease in handling, for sockets
- > **Square plug-in handle 1/4":** 1-component handle with female square
- > **Socket hex, metric, short, as per DIN 3124, ISO 2725**
- > **Socket hex, metric, long, as per DIN 3124, ISO 2725**
- > Socket, recessed TX
- > Spark plug socket 3/8" with pressed-in holding rubber and extra drive hex Size 21
- > Spark plug socket 1/2" with pressed-in holding rubber
- > Spark plug socket 1/2" with pressed-in holding rubber and extra drive hex Size 24
- > **Screwdriver bit socket 1/4", for hex screws:** with pressed-in, phosphated pin
- > **Screwdriver bit socket 1/4", slotted:** with pressed-in, phosphated pin
- > **Screwdriver bit socket 1/4" PH:** with pressed-in, phosphated pin
- > **Screwdriver bit socket 1/4" PZ:** with pressed-in, phosphated pin
- > **Screwdriver bit socket 1/4" TX:** with pressed-in, phosphated pin
- > **Screwdriver bit socket 1/4" TX:** with drill hole, with pressed-in, phosphated pin
- > **Sliding T-bar with slider 1/4":** as per DIN 3122, ISO 3315
- > Socket extension 1/4" + 3/8" + 1/2"
- > **Universal joint 1/4" + 3/8" + 1/2":** screwed-on joint, as per DIN 3123 - C 12.5
- > **Convertor/slider 3/8" x 1/2":** for driving sockets and screwdriver bit sockets
- > **Bit adaptor 1/4":** with female square and in-hex, for all bits and tools with 1/4" external hex
- > **Bit adaptor 3/8":** with female square and in-hex, for all bits and tools with 5/16" external hex
- > **Bit adaptor 1/2":** with female square and in-hex, for all bits and tools with 5/16" external hex
- > **Bit 1/4", TX:** TX B0, TX security, B0, keyway, XZN for holder as per DIN 1173, ISO 6.3
- > **Bit 5/16":** in-hex, slotted, PH, TX, TX B0 for holder as per DIN ISO 1173 - D 8
- > Hexagon socket key set: as per DIN ISO 2936
- > For hand-operated screw work
- > Chrome-vanadium steel, matt satin chrome-plated
- > Plastic case in GEDORE red Design
- > Clamp-secured tools
- > Metal hinges/fastener



Code	No.	Contents	Contents continued	L	W	D	pieces		
3300058	R45603172	1/4" 2C lever reversible ratchet, fine-toothed, 72 teeth   150 mm 1/4" square plug-in handle 165 mm 1/4" socket hexagon 4 4.5 5 5.5 6 7 8 9 10 11 12 13 14   25 mm 1/4" socket hexagon 4 5 6 7 8 9 10   50 mm 1/4" socket TX E4 E5 E6 E7 E8   25 mm 1/4" screwdriver bit socket in-hex 4 4 5 6   37 mm 1/4" screwdriver bit socket slotted 4 5.5 6.5 7   37 mm 1/4" screwdriver bit socket cross-head PH 0 1 2   37 mm 1/4" screwdriver bit socket cross-head PZ 0 1 2   37 mm 1/4" screwdriver bit socket TX T8 T9 T10 T15 T20 T25 T27 T30   37 mm 1/4" screwdriver bit socket TX with drill hole T8 T9 T10 T15 T20 T25 T27 T30   37 mm 1/4" socket extension 50 100 mm 1/4" sliding T-bar with slider   115 mm 1/4" universal joint   32 mm Bit adapter 1/4" sq. x 1/4" hex   25 mm  1/4" bits TX T5 T6 T7   25 mm 1/4" bits TX with drill hole T7   25 mm 1/4" bits TX plus security T10 T15 T20 T25 T27 T30 T40 T45   25 mm 1/4" bits multi-point XZN M5 M6 M8   25 mm 1/4" bits keyway M5 M6 M7 M8 M9   25 mm  5/16" bits in-hex 7 8 10 12 14   30 mm 5/16" bits slotted 8 10 12   30 mm 5/16" bits cross-head PH 3 4   30 mm 5/16" bits cross-head PZ 3 4   30 mm 5/16" bits TX T40 T45 T50 T55 T60 T70   30 mm 5/16" bits TX with drill hole T40 T45 T50 T55 T60 T70   30 mm	3/8" 2C lever reversible ratchet, fine-toothed, 72 teeth   180 mm 3/8" socket hexagon 10 11 12 13 14 15 16 17 18 19 3/8" socket hexagon 10 11 12 13 14 15   63 mm 3/8" socket TX E10 E11 E12 E14 E16 E18 3/8" spark plug socket 18 mm   65 mm 3/8" socket extension 150 mm 3/8" universal joint   49 mm Bit adapter 3/8" square x 5/16" hex   30 mm  1/2" 2C lever reversible ratchet, fine-toothed, 72 teeth   250 mm 1/2" socket hexagon 10 11 12 13 14 15 16 17 18 19 20 21 22 24 27 30 32 1/2" socket hexagon 16 17 18 19 22   77 mm 1/2" socket 1/2 TX E20 E24 1/2" spark plug socket 16 21 mm   65 mm 1/2" socket extension 125 250 mm 1/2" universal joint   66 mm Socket extension piece/slider 3/8" x 1/2"   44 mm Bit adapter 1/2" square x 5/16" hex   38 mm  Hexagon socket key 1.5 2 2.5 3 4 5 6 mm	452	340	86	172	10.500	



# R68003016

## SOCKET SET

### 1/2" TX



16 pieces

- > Coupler based on DIN 3120 - A 12.5, ISO 1174, with ball lock
- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Socket 1/2", recessed TX
- > **Screwdriver bit socket 1/2" TX:** with pressed-in, phosphated pin
- > For hand-operated screw work
- > Chrome-vanadium steel, matt satin chrome-plated
- > Plastic case in GEDORE red Design
- > Clamp-secured tools
- > Metal hinges/fastener



Code	No.	Contents	L	W	D	pieces	
3300009	R68003016	Socket TX E10 E11 E12 E14 E16 E18 E20 E22 E24 Screwdriver bit socket TX T30 T40 T45 T50 T55 T60 T70	300	180	52	16	1.690

# R68003010

## EXTRACTOR SET 1/2"



10 pieces

- > Square drive acc. to DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > For slackening and removing bolts and damaged screws
- > Anticlockwise cutting thread with 6 cutting edges tapering together
- > Hexagon head at the sockets as alternative drive
- > **Hand-operated**
- > Special compact design
- > Special steel
- > In a robust plastic case



Code	No.	Contents	L	W	D	pieces	
3300034	R68003010	1/2" 10 11 12 13 14 15 16 17 19 mm Punch	130	130	55	10	0.950

## R68003020

### SOCKET SET

3/8" + 1/2"

TX, 20 pieces

- > Coupler in acc. with DIN 3120, ISO 1174, with ball locking device
- > Square drive as per DIN 3120, ISO 1174, with ball retention groove
- > Socket 3/8" + 1/2", recessed TX
- > **Screwdriver bit socket 3/8" + 1/2" TX:** with pressed-in, phosphated pin
- > Reducer 1/2" to 3/8"
- > Chrome-vanadium steel, matt satin chrome-plated
- > For hand-operated screw work
- > Plastic case in GEDORE red Design
- > Clamp-secured tools
- > Metal hinges/fastener



Code	No.	Contents	L	W	D	pieces	
3300045	R68003020	3/8" socket TX E6 E7 E8 E10 3/8" screwdriver bit socket TX T10 T15 T20 T25 T27 1/2" socket TX E12 E14 E16 E18 E20 1/2" screwdriver bit socket TX T30 T40 T45 T50 T55 Reducer 1/2" square x 3/8" square	300	180	52	20	2,000

## R61003114

### SOCKET SET 1/2"

Long design, 14 pieces

- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > **Socket 1/2", hex:** metric, long, as per DIN 3124, ISO 2725
- > Chrome-vanadium steel, matt satin chrome-plated
- > For hand-operated screw work
- > Plastic case in GEDORE red Design
- > Clamp-secured tools
- > Metal hinges/fastener



Code	No.	Contents	L	W	D	pieces	
3300008	R61003114	Socket hexagon 10 12 13 14 15 17 19 21 22 23 24 27 30 32   77 mm	383	272	80	14	3.746

# R68003030

## SCREWDRIVER BIT SOCKET SET

### 1/2" IN



30 pieces

- > Square drive acc. to DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > **Screwdriver bit socket 1/2", hex:** metric, with pressed-in, phosphated pin, non-slip longitudinal knurled head, brightly polished on the drive side, design based on DIN 7422
- > Chrome-vanadium steel, matt satin chrome-plated
- > For hand-operated screw work  
Plastic case in the GEDORE red Design
- > Clamp-secured tools
- > Metal hinges/lock



Code	No.	Contents	L	W	D	pieces	kg
3301573	R68003030	Screwdriver bit socket in-hex, 5 6 7 8 10 12 14 17 19   55 mm Screwdriver bit socket, in-hex 5 6 7 8 10 11 12 13   100 mm Screwdriver bit socket in-hex 5 6 7 8 10 12 14   140 mm Screwdriver bit socket in-hex, 5 6 7 8 10 12   200 mm	425	320	52	30	5.4

# R68003032

## SCREWDRIVER BIT SOCKET SET

### 1/2" TX



32 pieces

- > Square drive acc. to DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > **Screwdriver bit socket 1/2", TX:** with pressed-in, phosphated pin, non-slip longitudinal knurled head, brightly polished on the drive side
- > Chrome-vanadium steel, matt satin chrome-plated
- > For hand-operated screw work
- > Plastic case in the GEDORE red Design
- > Clamp-secured tools
- > Metal hinges/lock



Code	No.	Contents	L	W	D	pieces	kg
3301577	R68003032	Screwdriver bit socket TX T20 T25 T27 T30 T40 T45 T50 T55 T60 T70   55 mm Screwdriver bit socket TX T20 T25 T27 T30 T40 T45 T50 T55 T60 T70   100 mm Screwdriver bit socket TX T40 T45 T50 T55 T60 T70   140 mm Screwdriver bit socket TX T40 T45 T50 T55 T60 T70   200 mm	425	320	52	32	5.4

# R68003026

## SCREWDRIVER BIT SOCKET SET

### 1/2" XZN



26 pieces

- > Square drive acc. to DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > **Screwdriver bit socket 1/2", XZN:** with pressed-in, phosphated pin, non-slip longitudinal knurled head, brightly polished on the drive side
- > Chrome-vanadium steel, matt satin chrome-plated
- > For hand-operated screw work
- > Plastic case in the GEDORE red Design
- > Clamp-secured tools
- > Metal hinges/lock



Code	No.	Contents	L	W	D	pieces	
3301574	R68003026	Screwdriver bit socket XZN M5 M6 M8 M9 M10 M12 M14 M16   55 mm	425	320	52	26	5.4
		Screwdriver bit socket XZN M5 M6 M8 M9 M10 M12 M14   100 mm					
		Screwdriver bit socket XZN M5 M6 M8 M9 M10 M12 M14   140 mm					
		Screwdriver bit socket XZN M8 M10 M12 M14   200 mm					

# R68003075

## ASSEMBLY TOOL SET

### TX 1/4" + 1/2"



75 pieces

- > Coupler in acc. with DIN 3120, ISO 1174, with ball locking device
- > Square drive acc. to DIN 3120, ISO 1174, with ball retention groove
- > Socket 1/4" + 1/2", recessed TX
- > **Screwdriver bit socket 1/4", TX:** with pressed-in, phosphated pin
- > **Bit adapter 1/4", with in-square and in-hex:** for all bits and tools with a 1/4" outer hex
- > **Bit adapter 1/2", with in-square and in-hex:** for all bits and tools with a 10mm (3/8") outer hex
- > **Bit 1/4" TX B0:** for holders in acc. with DIN ISO 1173 - D 6,3
- > **Bit 10mm (3/8") TX:** for holders in acc. with DIN ISO 1173 - D 10
- > Hexagon socket key set TX
- > Double-ended ring spanners TX
- > 1K screwdriver TX
- > Telescopic holder with magnet
- > Chrome-vanadium steel, matt satin chrome-plated
- > For hand-operated screw work
- > Plastic case in the GEDORE red Design
- > Clamp-secured tools
- > Metal hinges/lock



Code	No.	Contents	L	W	D	pieces	
3301575	R68003075	1/4" socket TX E4 E5 E6 E7 E8 E10 E11   25 mm 1/4" screwdriver bit socket TX T7 T8 T9 T10 T15 T20 T25 T27 T30 T40   37 mm 1/4" bit adapter square x hex   25 mm 1/4" bits TX with hole T7 T8 T9 T10 T15 T20 T25 T27 T30 T40   25 mm 1/2" socket TX E12 E14 E16 E18 E20 E22 E24 Bit adapter 1/2" 4kt x 10 mm 6kt   38 mm 10mm bits TX T40 T45 T50 T55 T60   30 mm 10mm bits TX T15 T20 T25 T30 T40 T45 T50 T55 T60   75 mm Screwdriver TX T8x60 T10x80 T15x80 T20x100 T25x100 T27x125 T30x125 T40x150 mm Double-ended ring spanner TX E6xE8 E10xE12 E14xE18 E20xE24 Hexagon socket key TX T8 T10 T15 T20 T25 T27 T30 T40 T45 T50 T55 T60 Telescopic magnetic lifter with scriber 126 - 636 mm	383	272	80	75	3,5

3/4" drive

**R78004014**  
SOCKET SET 3/4"

14 pieces

- > Coupler as per DIN 3120 - B 20, ISO 1174, with locking pin
- > Square drive as per DIN 3120 - D 20, ISO 1174, with drill hole for locking pin
- > **Reversible ratchet 3/4"**: lever for reversing clockwise/anticlockwise direction, oval head, sturdy all-steel type
- > **Socket 3/4", hex**: metric, short, as per DIN 3124, ISO 2725
- > Socket extension 3/4"
- > **Sliding T-bar with slider 3/4"**: as per DIN 3122, ISO 3315
- > Chrome-vanadium steel, matt satin chrome-plated
- > For hand-operated screw work
- > Plastic case in GEDORE red Design
- > Clamp-secured tools
- > Metal hinges/fastener



Code	No.	Contents	L	W	D	pieces	
3300011	R78004014	3/4"reversible ratchet, coarse-cogged, 24 teeth   510 mm 3/4"socket hexagon 22 24 27 30 32 36 38 41 46 50 mm 3/4"socket extensions 200 400 mm 3/4" sliding T-bar with slider   460 mm	552	360	100	14	14.2

Sockets on holding rails

**R41008012**  
SOCKETS 1/4"

Hexagon, metric, long, on holding rail, 12 pieces

- > 8" (200 mm) long metal holding rail
- > Sockets 1/4", hex: as per DIN 3124, ISO 2725
- > Hand-operated, longitudinal knurled grip
- > Drive end matt chrome-plated, driven end bright-polished
- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retention groove
- > Chrome-vanadium steel



Code	No.	Contents	pieces	
3300021	R41008012	Socket hexagon 4 4.5 5 5.5 6 7 8 9 10 11 12 13 50 mm	12	0.537

## R48008013

### SCREWDRIVER BIT SOCKETS 1/4"



In-hex, slotted, PH, on holding rail, 13 pieces

- > 8" (200 mm) long metal holding rail
- > Screwdriver bit socket 1/4", for hex screws: with pressed-in, phosphated pin
- > Screwdriver bit socket 1/4", slotted: with pressed-in, phosphated pin
- > Screwdriver bit socket 1/4" PH: with pressed-in, phosphated pin
- > Hand-operated, longitudinal knurled grip
- > Drive end brightly polished
- > Pressed-in phosphated pin
- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retention groove
- > Chrome-vanadium steel



Code	No.	Contents	pieces	kg
3300022	R48008013	In-hex 3 4 5 6 8 10   37 mm Slotted: 4 5.5 6,5   37 mm Cross-head PH: 0 1 2 3   37 mm	13	0.3

## R58018012

### SOCKETS

### 3/8" AND 1/2"



TX, on holding rail, 12 pieces

- > 11" (280 mm) long metal holding rail
- > Sockets 3/8" and 1/2", TX
- > Hand-operated, longitudinal knurled grip
- > Square drive as per DIN 3120, ISO 1174, with ball retention groove
- > Sliding T-bar with slider 3/8": as per DIN 3122, ISO 3315, matt chrome-plated, for hand-operated sockets, coupler based on DIN 3120 - A 10, ISO 1174, with ball lock
- > Socket extension piece/slider 3/8": for driving sockets and screwdriver sockets, square drive as per DIN 3120 - C 10, ISO 1174, with ball retention groove, coupler based on DIN 3120 - A 12,5, ISO 1174, with ball lock
- > Chrome-vanadium steel



Code	No.	Contents	pieces	kg
3300048	R58018012	3/8" sockets: TX E4 E5 E6 E8   28 mm 3/8" sliding T bar with slider   150 mm 1/2" sockets: TX E10 E12 E14 E16 E18 E20   38 mm Convertor 3/8" x 1/2"   44 mm	12	0.760

# R61208007

## SOCKETS 1/2"



TX, on holding rail, 7 pieces

- > 8" (200 mm) long metal holding rail
- > Socket sets 1/2", TX
- > Hand-operated, longitudinal knurled grip
- > Drive end matt chrome-plated, driven end bright-polished
- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Chrome-vanadium steel



Code	No.	Contents	pieces	
3300028	R61208007	Screwdriver bit socket TX E10 E11 E12 E14 E16 E18 E20	7	0.460

# R62558010

## SCREWDRIVER BIT SOCKETS 1/2"



In-hex, metric on holding rail, 10 pieces

- > 11" (280 mm) long metal holding rail
- > Screwdriver bit socket 1/2", in-hex, as per DIN 7422
- > Hand-operated, longitudinal knurled grip
- > Drive end brightly polished
- > Pressed-in phosphated pin
- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Chrome-vanadium steel



Code	No.	Contents	pieces	
3300023	R62558010	In-hex 5 6 7 8 10 11 12 14 17   55 mm	10	1.1



## R6255 8110

### SCREWDRIVER BIT SOCKETS 1/2"



In-hex, metric on holding rail, 10 pieces

- > 11" (280 mm) long metal holding rail
- > Screwdriver bit socket 1/2", in-hex, as per DIN 7422
- > Hand-operated, longitudinal knurled grip
- > Drive end brightly polished
- > Pressed-in phosphated pin
- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Chrome-vanadium steel



Code	No.	Contents	pieces	
3300027	R62558110	In-hex 5 6 7 8 10 12 14 17 19   55 mm	10	1.140

## R6245 8107

### SCREWDRIVER BIT SOCKETS 1/2"



TX, on holding rail, 7 pieces

- > 8" (200 mm) long metal holding rail
- > Socket sets 1/2", TX
- > Pressed-in phosphated pin
- > Hand-operated, longitudinal knurled grip
- > Drive end brightly polished
- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Chrome-vanadium steel



Code	No.	Contents	pieces	
3300029	R62458107	TX T20 T25 T27 T30 T40 T45 T50   55 mm	7	0.560

# R68008009

## SOCKETS/SOCKETS

### 1/2"



Hexagon, in-hex, metric on holding rail, 9 pieces

- > 9" (235 mm) long metal holding rail
- > Socket 1/2", hex: as per DIN 3124, ISO 2725
- > Screwdriver bit socket 1/2", in-hex, as per DIN 7422
- > Pressed-in phosphated pin
- > Hand-operated, longitudinal knurled grip
- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Chrome-vanadium steel



Code	No.	Contents	pieces	
3301872	R68008009	Socket 10 13 15 17 19 mm Screwdriver bit socket 8 4 5 6 8 mm	9	0.610

# R69008012

## SOCKET SET 1/2"



Hexagon, metric, on holding rail, 12 pieces

- > 12" (305 mm) long metal holding rail
- 2-C reversible ratchet 1/2":**
  - > Lever for reversing clockwise/anticlockwise direction
  - > Push-button release
  - > Fine-toothed, working angle 5°
  - > Oval head
  - > Dual-material handle, for easy handling
  - > Matt chrome-plated surface
  - > For sockets, accessories etc. with square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
  - > Chrome-vanadium steel
- Socket extension 1/2", 75 mm:**
  - > Matt chrome-plated
  - > For hand-operated sockets
  - > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
  - > Coupler based on DIN 3120 - A 12.5, ISO 1174, with ball lock
  - > Chrome-vanadium steel
- Socket 1/2", hexagon:**
  - > Hand-operated, longitudinal knurled grip
  - > Drive end matt chrome-plated, driven end bright-polished
  - > Acc. to DIN 3124, ISO 2725
  - > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
  - > Chrome-vanadium steel



Code	No.	Contents	pieces	
3300030	R69008012	2-C reversible ratchet 1/2"   250 mm Socket extension 1/2"   75 mm Sockets 1/2" 10 11 12 13 14 15 16 17 18 19   38 mm	12	1.300

## R2085 XXXX

### HOLDING RAIL FOR SOCKETS

- > Holding rail for equipping with adaptors for wrench sockets in drive sizes 1/4", 3/8" and 1/2"
- > Can also be used in combinations, for individual tool requirements
- > Can be loaded on both sides
- > In various lengths, with two elongated holes for fixing
- > Aluminium
- > Delivery without adapter



R20852031



Equipping example



R20852052

Code	No.	↳ "inch" ↳	↳ mm ↳	↳ kg ↳
3300014	R20852031	8	200	0.040
3300015	R20852052	12	305	0.060

#### MATCHING SOCKET HOLDER FOR HOLDING RAILS

Code	No.	■ "	■	W	H	↳ kg ↳
3300017	R20940004	1/4	6.3	26	18.5	0.020
3300018	R20940005	3/8	10.0	26	20.5	0.020
3300019	R20940006	1/2	12.5	26	23.0	0.040

### Impact tools range

### Impact tool sockets

## R6300 3008

### IMPACT TOOL SOCKET SET 1/2"



8 pieces

- > Square drive as per DIN 3121 - G 12.5, ISO 1174
- > Acc. to DIN 3129, ISO 2725-2
- > Machine-operated, fixing with safety ring / pin
- > Surface phosphated
- > Chrome-molybdenum steel
- > In rugged plastic case



Code	No.	Contents	L	W	D	pieces	↳ kg ↳
3300575	R63003008	Impact socket 1/2" 10 12 13 14 17 19 21 24 mm	190	110	52	8	1.100

# R63003012

## IMPACT TOOL SOCKET SET

### 1/2"



12 pieces

- > Square drive as per DIN 3121 - G 12.5, ISO 1174
- > Acc. to DIN 3129, ISO 2725-2
- > Machine-operated, fixing with safety ring / pin
- > Surface phosphated
- > Chrome-molybdenum steel
- > In rugged plastic case



Code	No.	Contents	L	W	D	pieces	
3300574	R63003012	Impact socket 10 11 12 13 14 15 16 17 19 21 22 24 mm	300	180	52	12	1.598

# R63043003

## IMPACT SOCKET SET

### 1/2"



3 pieces

- > Specially for fitting / removing wheels of vehicles
- > Plastic sleeves for damage-free work on aluminium wheel rims
- > Colour coding for ease in identifying the right size
- > Square drive as per DIN 3121 - G 12.5, ISO 1174
- > Acc. to DIN 3129, ISO 2725-2
- > Machine-operated, fixing with safety ring / pin
- > Surface phosphated
- > Chrome-molybdenum steel
- > In rugged plastic case



Code	No.	Contents	L	W	D	pieces	
3300578	R63043003	Impact socket 17 19 21 mm   86 mm	158	138	51	3	0.830

## Impact sockets 1/2" drive

**R6300XXXX**  
IMPACT SOCKET 1/2"

hexagon, short

- > Machine-operated, fixing with safety ring / pin
- > Surface phosphated
- > Acc. to DIN 3129, ISO 2725-2
- > Square drive as per DIN 3121 - G 12.5, ISO 1174
- > Chrome-molybdenum steel



Code	No.	□"	□	⊙ mm	↳ mm ↲	∅ 1	∅ 2	⚖
3300525	R63001006	1/2	12.5	10	38	17.0	25.0	0.068
3300526	R63001106	1/2	12.5	11	38	18.5	25.0	0.075
3300527	R63001206	1/2	12.5	12	38	19.5	25.0	0.072
3300528	R63001306	1/2	12.5	13	38	21.0	25.0	0.072
3300529	R63001406	1/2	12.5	14	38	22.0	25.0	0.076
3300530	R63001506	1/2	12.5	15	38	23.5	30.0	0.076
3300531	R63001606	1/2	12.5	16	38	24.5	30.0	0.080
3300532	R63001706	1/2	12.5	17	38	26.0	30.0	0.088
3300533	R63001906	1/2	12.5	19	38	28.5	30.0	0.096
3300534	R63002106	1/2	12.5	21	38	31.0	30.0	0.114
3300535	R63002206	1/2	12.5	22	38	32.0	30.0	0.148
3300536	R63002408	1/2	12.5	24	45	35.0	30.0	0.154
3300537	R63002709	1/2	12.5	27	50	38.0	30.0	0.154
3300538	R63003009	1/2	12.5	30	50	41.0	30.0	0.240
3300539	R63003209	1/2	12.5	32	50	44.0	30.0	0.232

**R6300XXXX**  
IMPACT SOCKET 1/2"

hexagon, long pattern

- > Machine-operated, fixing with safety ring / pin
- > Surface phosphated
- > Acc. to DIN 3129, ISO 2725-2
- > Square drive as per DIN 3121 - G 12.5, ISO 1174
- > Chrome-molybdenum steel



Code	No.	□"	□	⊙ mm	↳ mm ↲	∅ 1	∅ 2	⚖
3300540	R63001016	1/2	12.5	10	78	17.0	25.0	0.126
3300541	R63001116	1/2	12.5	11	78	18.5	25.0	0.132
3300542	R63001216	1/2	12.5	12	78	19.5	25.0	0.144
3300543	R63001316	1/2	12.5	13	78	21.0	25.0	0.146
3300544	R63001416	1/2	12.5	14	78	22.0	25.0	0.170
3300545	R63001516	1/2	12.5	15	78	23.5	30.0	0.178
3300546	R63001616	1/2	12.5	16	78	24.5	30.0	0.218
3300547	R63001716	1/2	12.5	17	78	26.0	30.0	0.224
3300699	R63001815	1/2	12.5	18	78	27.5	30.0	0.260
3300548	R63001916	1/2	12.5	19	78	28.5	30.0	0.244
3300700	R63002015	1/2	12.5	20	78	30.0	30.0	0.280
3300549	R63002116	1/2	12.5	21	78	31.0	30.0	0.260
3300550	R63002216	1/2	12.5	22	78	32.0	30.0	0.338
3300701	R63002315	1/2	12.5	23	78	33.0	30.0	0.280
3300551	R63002416	1/2	12.5	24	78	35.0	30.0	0.350
3300703	R63002715	1/2	12.5	27	78	38.0	30.0	0.320
3300705	R63003015	1/2	12.5	30	78	41.0	30.0	0.350
3300706	R63003215	1/2	12.5	32	78	44.0	30.0	0.350

## R6304XXXX IMPACT SOCKET 1/2"



Hexagon with protective sleeve

- > Specially for fitting / removing wheels of vehicles
- > Plastic sleeves for damage-free work on aluminium wheel rims
- > Colour coding for ease in identifying the right size
- > Machine-operated, fixing with safety ring / pin
- > Surface phosphated
- > Square drive as per DIN 3121 - G 12.5, ISO 1174
- > Acc. to DIN 3129, ISO 2725-2
- > Chrome-molybdenum steel



Code	No.	□"	□	○mm	↳mm↳	Ø 1	Ø 2	Colour
3300585	R63041716	1/2	12.5	17	86	25.6	30	blue
3300586	R63041916	1/2	12.5	19	86	28.8	30	yellow
3300587	R63042116	1/2	12.5	21	86	30.8	30	red

### Impact accessories 1/2"

## R6610XXXX IMPACT EXTENSION 1/2"



- > Machine-operated, fixing with safety ring / pin
- > Surface phosphated
- > Coupler as per DIN 3121 - F 12.5, ISO 1174
- > Square drive as per DIN 3121 - G 12.5, ISO 1174
- > Chrome-molybdenum steel



Code	No.	□"	□	■"	■	↳mm↳	Ø 1	Ø 2	kg
3300570	R66100024	1/2	12.5	1/2	12.5	125	16	25	0.230
3300571	R66100049	1/2	12.5	1/2	12.5	250	16	25	0.443

## R6630 0014 IMPACT UNIVERSAL JOINT 1/2"



- > Machine-operated, fixing with safety ring / pin
- > Surface phosphated
- > Coupler as per DIN 3121 - F 12.5, ISO 1174
- > Square drive as per DIN 3121 - G 12.5, ISO 1174
- > Chrome-molybdenum steel



Code	No.	□"	□	■"	■	↳mm↳	Ø 1	Ø 2	kg
3300650	R66300014	1/2	12.5	1/2	12.5	63	34	30	0.236

## R6740 0008

### IMPACT SOCKET EXTENSION PIECE

#### 1/2" TO 3/4"



- > Machine-operated, fixing with safety ring / pin
- > Surface phosphated
- > Coupler as per DIN 3121 - F 20, ISO 1174
- > Square drive as per DIN 3121 - G 12.5, ISO 1174
- > Chrome-molybdenum steel



Code	No.	□"	□	■"	■	↳ mm ◀	Ø 1	⚖
3300573	R67400008	1/2	12.5	3/4	20	49	30	0.140

## R6760 0005

### IMPACT SOCKET REDUCER

#### 1/2" TO 3/8"



- > Machine-operated, fixing with safety ring / pin
- > Surface phosphated
- > Coupler as per DIN 3121 - F 10, ISO 1174
- > Square drive as per DIN 3121 - G 12.5, ISO 1174
- > Chrome-molybdenum steel



Code	No.	□"	□	■"	■	↳ mm ◀	Ø 1	⚖
3300572	R67600005	1/2	12.5	3/8	10	38	30	0.070

## R6398 XXXX

### SAFETY RING / 9 IN 1/2"

- > Consisting of safety ring and safety pin
- > For securing impact sockets



Code	No.	■"	■ Use	Model	⚖
3300576	R63981005	1/2	12.5 for size 8-14 mm	Pin 20 x 3 mm, ring 19 x 4 mm	0.003
3300577	R63981105	1/2	12.5 for size 15-32 mm	Pin 25 x 3 mm, ring 24 x 4 mm	0.005

## Impact sockets 3/4" drive

### R7300 XXXX SET IMPACT SOCKETS 3/4"



short

- > Machine-operated, fixing with safety ring / pin
- > Surface phosphated
- > Acc. to DIN 3129, ISO 2725-2
- > Square drive as per DIN 3121 - H 20, ISO 1174
- > Chrome-molybdenum steel



Code	No.	□"	□	⊙mm	↳mm↳	∅ 1	∅ 2	⚖
3300591	R73001909	3/4	20	19	51	32	44	0.340
3300593	R73002209	3/4	20	22	51	37	44	0.354
3300594	R73002309	3/4	20	23	51	38	44	0.340
3300595	R73002409	3/4	20	24	52	39	44	0.354
3300598	R73002710	3/4	20	27	54	43	44	0.388
3300599	R73002810	3/4	20	28	54	44	44	0.380
3300601	R73003010	3/4	20	30	54	46	44	0.428
3300602	R73003210	3/4	20	32	56	49	44	0.472
3300603	R73003310	3/4	20	33	56	50	44	0.506
3300606	R73003610	3/4	20	36	56	54	44	0.514
3300608	R73003811	3/4	20	38	58	56	44	0.564
3300609	R73004111	3/4	20	41	58	59	44	0.594
3300610	R73004611	3/4	20	46	63	65	44	0.850

### R7300 XXXX SET IMPACT SOCKETS 3/4"



long

- > Machine-operated, fixing with safety ring / pin
- > Surface phosphated
- > Acc. to DIN 3129, ISO 2725-2
- > Square drive as per DIN 3121 - H 20, ISO 1174
- > Chrome-molybdenum steel



Code	No.	□"	□	⊙mm	↳mm↳	∅ 1	∅ 2	⚖
3300612	R73001917	3/4	20	19	90	32	44	0.426
3300614	R73002117	3/4	20	21	90	35	44	0.456
3300615	R73002217	3/4	20	22	90	37	44	0.496
3300617	R73002417	3/4	20	24	90	39	44	0.470
3300620	R73002717	3/4	20	27	90	43	44	0.506
3300623	R73003017	3/4	20	30	90	49	44	0.626
3300624	R73003217	3/4	20	32	90	50	44	0.598
3300651	R73003317	3/4	20	33	90	50	44	0.780
3300652	R73003617	3/4	20	36	90	54	44	0.800
3300654	R73004117	3/4	20	41	90	59	44	0.920
3300655	R73004617	3/4	20	46	90	65	44	1.400



Impact accessories 3/4"

**R7510XXXX**  
IMPACT EXTENSION  
3/4"



- > Machine-operated, fixing with safety ring / pin
- > Surface phosphated
- > Coupler as per DIN 3121 - F 20, ISO 1174
- > Square drive as per DIN 3121 - H 20, ISO 1174
- > Chrome-molybdenum steel



Code	No.	□"	□	■"	■	↳ mm ↳	∅	⚖
3300631	R76100040	3/4	20	3/4	20.0	205		0.923
3300632	R76100059	3/4	20	3/4	20.0	300		1.223

**R7740 0011**  
IMPACT SOCKET EXTENSION PIECE  
3/4" TO 1"



- > Machine-operated, fixing with safety ring / pin
- > Surface phosphated
- > Coupler as per DIN 3121 - F 25, ISO 1174
- > Square drive as per DIN 3121 - H 20, ISO 1174
- > Chrome-molybdenum steel



Code	No.	□"	□	■"	■	↳ mm ↳	∅	⚖
3300637	R77400011	3/4	20.0	1	25	65	44	0.430

**R7760 0010**  
IMPACT SOCKET REDUCER  
3/4" TO 1/2"



- > Machine-operated, fixing with safety ring / pin
- > Surface phosphated
- > Coupler as per DIN 3121 - F 12,5, ISO 1174
- > Square drive as per DIN 3121 - H 20, ISO 1174
- > Chrome-molybdenum steel



Code	No.	□"	□	■"	■	↳ mm ↳	∅	⚖
3300633	R77600010	3/4	20.0	1/2	12.5	56	44	0.334

**R73981005**  
SAFETY RING / 9IN 3/4"



- > Consisting of safety ring and safety pin
- > For securing impact sockets



Code	No.	■"	■ Use	Model	⚖
3300634	R73981005	3/4	20 for size 17-50 mm	Pin 35 x 4 mm, ring 36 x 5 mm	0.010

## Impact sockets 1" drive

### R8300XXXX IMPACT SOCKET 1"

hexagon, short



- > Machine-operated, fixing with safety ring / pin
- > Surface phosphated
- > Acc. to DIN 3129, ISO 2725-2
- > Square drive as per DIN 3121 - H 25, ISO 1174
- > Chrome-molybdenum steel



Code	No.	□"	□	⊙ mm	↳ mm ↲	∅ 1	∅ 2	⚖
<b>3300657</b>	R83002711	1	25	27	59	46.2	54	0.690
<b>3300659</b>	R83003011	1	25	30	61	50.0	54	0.710
<b>3300660</b>	R83003211	1	25	32	62	52.5	54	0.700
<b>3300661</b>	R83003311	1	25	33	62	54.0	54	0.690

### R8300XXXX IMPACT SOCKET 1"

hexagon, long pattern



- > Machine-operated, fixing with safety ring / pin
- > Surface phosphated
- > Acc. to DIN 3129, ISO 2725-2
- > Square drive as per DIN 3121 - H 25, ISO 1174
- > Chrome-molybdenum steel



Code	No.	□"	□	⊙ mm	↳ mm ↲	∅ 1	∅ 2	⚖
<b>3300674</b>	R83002419	1	25	24	100	42.5	54	0.900
<b>3300675</b>	R83002719	1	25	27	100	46.2	54	1.000
<b>3300676</b>	R83003019	1	25	30	100	50.0	54	1.000
<b>3300677</b>	R83003219	1	25	32	100	52.5	54	1.100
<b>3300678</b>	R83003319	1	25	33	100	54.0	54	1.100
<b>3300679</b>	R83003619	1	25	36	100	57.5	54	1.200
<b>3300680</b>	R83003819	1	25	38	100	59.5	54	1.300
<b>3300681</b>	R83004119	1	25	41	100	62.0	54	1.400
<b>3300682</b>	R83004619	1	25	46	100	68.0	54	1.388

## Impact accessories 1" drive

**R8610059**  
IMPACT EXTENSION 1"

- > Machine-operated, fixing with safety ring / pin
- > Surface phosphated
- > Coupler as per DIN 3121 - F 25, ISO 1174
- > Square drive as per DIN 3121 - H 25, ISO 1174
- > Chrome-molybdenum steel



Code	No.	□"	□	■"	■	↳ mm ↳	⚖ kg
3300685	R86100059	1	25	1	25.0	300	2.030

**R83981105**  
SAFETY RING / PIN 1"

- > Consisting of safety ring and safety pin
- > For securing impact sockets



Code	No.	■"	■ Use	Model	⚖ kg
3300708	R83981105	1	25 for size 24-80mm	Pin 45 x 5 mm, ring 45 x 7 mm	0.026

# TORQUE WRENCHES

124 - 125



## RX890 XXXX TORQUE WRENCHES

### Use:

- > Controlled screw tightening from 5 to 550 N-m
- > For controlled bi-directional tightening
- > Repetition-accurate and precision-like
- > Torque triggering clearly to be heard and felt

### Features:

- > Adjustable torque wrench with square drive and integrated ratchet-head function
- > Square drive with ratchet mechanism
- > Torque is set by turning the handle
- > The set value is fixed through the lock at the end of the handle
- > Easy-to-read scale with magnifying glass for N-m, plus 1/10 scale for precision setting
- > Actuation accuracy: +/- 3 % tolerance of the scale set torque

### Scope of delivery:

- > Torque wrench with test certificate acc. to DIN EN ISO 6789
- > Operating instructions



Code	No.	Type	■ "	■	N-m	▬ N-m	◀ mm ▶	⚖ kg
3301214	R48900025	Plug-in square with knob, serrated	1/4	6.3	5-25	0.1	285	0.515
3301871	R58900050	Plug-in square with knob, serrated	3/8	10.0	10-50	2.5	335	0.540
3301216	R68900100	Plug-in square with knob, serrated	1/2	12.5	20-100	0.5	395	1.176
3301217	R68900200	Plug-in square with knob, serrated	1/2	12.5	40-200	1.0	485	1.350
3301218	R68900300	Plug-in square with knob, serrated	1/2	12.5	60-300	1.0	575	1.541
3301219	R78900400	Push-through square head with pin	3/4	20.0	80-400	1.0	685	2.390
3301220	R78900550	Push-through square head with pin	3/4	20.0	110-550	1.0	955	4.184

## Accessories

## RX899 XXXX COUPLER

- > For use with tools with a square ratchet function
- > Coupler in acc. with DIN 3120
- > Chrome-vanadium steel



Code	No.	Type	■ "	■	⚖ kg
3301221	R48990000	Plug-in square with knob, serrated	1/4	6.3	0.021
3301222	R58990000	Plug-in square with knob, serrated	3/8	10.0	0.022
3301223	R68990000	Plug-in square with knob, serrated	1/2	12.5	0.060
3301224	R78991000	Push-through square head with pin	3/4	20.0	0.133

# SCREWDRIVERS AND BITS

126 - 137



## Screwdrivers

## R3810XXXX

### 2C-SCREWDRIVER



#### Slotted

- > Acc. to DIN 5264
- > Blade of high-grade chrome-molybdenum steel, chrome-plated
- > Driven tip phosphated, corrosion-protected and low-wear
- > Moulded handle forms a firm unit with the blade
- > Dual-material handle for a hands-friendly transfer of force
- > 5-edge handle head stops it rolling off
- > Elongated hole in the handle for hanging up



Code	No.	mm	mm	mm	mm	Ø	kg
3301225	R38100315	3.0	0.5	75	145	3	0.030
3301226	R38100419	4.0	0.8	100	170	4	0.040
3301228	R38105519	5.5	1.0	100	200	5	0.080
3301233	R38106529	6.5	1.2	150	260	6	0.110
3301235	R38100829	8.0	1.2	150	272	8	0.160
3301237	R38101039	10.0	1.6	200	322	10	0.220

## R3820XXXX

### 2C-SCREWDRIVER



#### PH

- > Acc. to DIN 8764
- > Blade of high-grade chrome-molybdenum steel, chrome-plated
- > Driven tip phosphated, corrosion-protected and low-wear
- > Moulded handle forms a firm unit with the blade
- > Dual-material handle for a hands-friendly transfer of force
- > 5-edge handle head stops it rolling off
- > Elongated hole in the handle for hanging up



Code	No.	PH	mm	mm	Ø	kg
3301242	R38200011	0	75	145	3	0.040
3301245	R38200119	1	100	200	5	0.070
3301247	R38200219	2	100	210	6	0.100
3301250	R38200329	3	150	272	8	0.100

## R3830XXXX

### 2C-SCREWDRIVER



#### PZ

- > Acc. to DIN 8764
- > Blade of high-grade chrome-molybdenum steel, chrome-plated
- > Driven tip phosphated, corrosion-protected and low-wear
- > Moulded handle forms a firm unit with the blade
- > Dual-material handle for a hands-friendly transfer of force
- > 5-edge handle head stops it rolling off
- > Elongated hole in the handle for hanging up



Code	No.	PZ	mm	mm	Ø	kg
3301251	R38300119	1	100	200	5	0.080
3301252	R38300219	2	100	210	6	0.100
3301253	R38300329	3	150	272	8	0.160

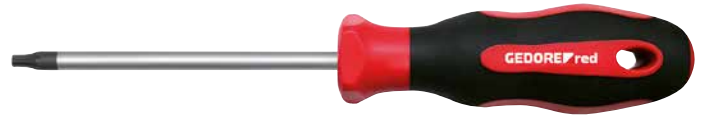
# R3840XXXX

## 2G-SCREWDRIVER



TX

- > Blade of high-grade chrome-molybdenum steel, chrome-plated
- > Driven tip phosphated, corrosion-protected and low-wear
- > Moulded handle forms a firm unit with the blade
- > Dual-material handle for a hands-friendly transfer of force
- > 5-edge handle head stops it rolling off
- > Elongated hole in the handle for hanging up



Code	No.					
		T	l - mm	l - mm	Ø	
3301262	R38401115	T10	100	200	5	0.025
3301263	R38401215	T15	100	200	5	0.039
3301264	R38401319	T20	100	200	5	0.044
3301265	R38401419	T25	100	210	6	0.062
3301266	R38401522	T27	100	210	6	0.080
3301267	R38401622	T30	100	210	6	0.101
3301268	R38401825	T40	100	210	7	0.125

# R38002006

## SCREWDRIVER SET



6 pieces

- > Acc. to DIN 5264 and DIN 8764
- > Blades of high-grade chrome-molybdenum steel, chrome-plated
- > Driven tips phosphated, corrosion-protected and low-wear
- > Moulded handles form a firm unit with the blades
- > Dual-material handles for a hands-friendly transfer of force
- > 5-edge handle heads stop them rolling off
- > Elongated holes in the handle for hanging up



Code	No.	Contents	pieces	
3301270	R38002006	Slotted screwdriver 3 5.5 6.5 mm Cross-slotted screwdriver PH 0 1 2	6	0.435



# R38002106

## SCREWDRIVER SET



6 pieces

- > Acc. to DIN 5264 and DIN 8764
- > Blades of high-grade chrome-molybdenum steel, chrome-plated
- > Driven tips phosphated, corrosion-protected and low-wear
- > Moulded handles form a firm unit with the blades
- > Dual-material handles for a hands-friendly transfer of force
- > 5-edge handle heads stop them rolling off
- > Elongated holes in the handle for hanging up



Code	No.	Contents	pieces	kg
3301271	R38002106	Slotted screwdriver 3 5.5 6.5 mm Cross-slotted screwdriver PZ 0 1 2	6	0.435

# R38002012

## SCREWDRIVER SET XXL



12 pieces

- > Blades of high-grade chrome-molybdenum steel, chrome-plated
- > Driven tips phosphated, corrosion-protected and low-wear
- > Moulded handles form a firm unit with the blades
- > Dual-material handles for a hands-friendly transfer of force
- > 5-edge handle heads stop them rolling off
- > Elongated holes in the handle for hanging up



Code	No.	Contents	pieces	kg
3301273	R38002012	Slotted screwdriver 3 4 5.5 6.5 8 mm Cross-head screwdriver PH 1 2 Cross-head screwdriver PZ PZ 1 2 VDE slotted screwdriver 2.5 mm VDE cross-head screwdriver PH 1 Voltage tester 3 mm	12	0.927

## R38402006

### SCREWDRIVER SET TX



6 pieces

- › Blades of high-grade chrome-molybdenum steel, chrome-plated
- › Driven tips phosphated, corrosion-protected and low-wear
- › Moulded handles form a firm unit with the blades
- › Dual-material handles for a hands-friendly transfer of force
- › 5-edge handle heads stop them rolling off
- › Elongated holes in the handle for hanging up



Code	No.	Contents	pieces	
3301272	R38402006	TX screwdriver T10 T15 T20 T25 T30 T40	6	0.550

## R38005906

### 2C-ELECTRONICS SCREWDRIVER SET



6 pieces

- › 2C-handles, ergonomically formed, with quick-turning end caps
- › Screwdriver blades of chrome-molybdenum steel, chrome-plated



Code	No.	Contents	pieces	
3301351	R38005906	Slotted screwdrivers 1.5 1.8 2.5 3 mm Cross-head screwdriver PH 00 0	6	0.370

## R38120312

### PHASE TESTER 105-250V



- › Integrated glow lamp and series resistor for networks from 105 to a max. 250 volt
- › Single-component handle for a hands-friendly transfer of force
- › Impact-resistant, transparent plastic
- › Metal clip for fastening



Code	No.				
3301420	R38120312	3.0	70	144	0.030

## R38121312

### PHASE TESTER MAX. 250V



- > Integrated glow lamp and series resistor for networks up to a max. 250 volt
- > Black gunmetal finished tip
- > Red plastic jacket
- > Anti-slip handle surface
- > Plastic clip for fastening
- > Triangular hole in the handle for hanging up
- > Acc. to DIN 0680-6:1977-04



Code	No.	mm $\pm$ C	mm	kg
3301419	R38121312	3.0	135	0.028

## R38120419

### PHASE TESTER 220-250V



- > Integrated glow lamp and series resistor for networks from 220 to a max. 250 volt
- > Single component handle for a hands-friendly transfer of force
- > Impact-resistant, transparent plastic
- > Metal clip for fastening



Code	No.	mm $\pm$ C	mm	kg
3301421	R38120419	4.0	190	0.036

## R38910000

### RATCHET SCREWDRIVER 1/4" WITH TELESCOPIC BLADE



- > Telescopic blade infinitely adjustable
- > Quick-grip system for hex bits as per DIN 3126 - C 6.3 + E 6.3 (1/4")
- > Reversible clockwise/anticlockwise ratchet function
- > Ratchet lock in central position
- > Dual-material handle for a hands-friendly transfer of force



Code	No.	mm	mm	mm	mm	kg
3301341	R38910000	1/4	6.3	0-100	183-287	0.223

## R3892 0000

### EXTENDABLE SHANK SCREWDRIVER 13IN1



- > The all-rounder: 13 screwdriver profiles in the magazine
- > Screwdriver handle with integrated ratchet function, reversible
- > Hex recess drive as per DIN 3126 - D 6.3 (1/4"), for bits
- > Lockable telescopic blade, continuously adjustable
- > Reversible clockwise/anticlockwise ratchet function
- > Ratchet lock in central position
- > Dual-material handle for a hands-friendly transfer of force



Code	No.	Contents	Blade length	Length of handle	pieces	
3301337	R38920000	Extendable shank screwdriver with 1/4" bits Slotted 4 4.5 5.5 mm Phillips PH 1 2 3 Cross-head PZ 1 PZ 2 TX T10 T15 T20 T25 Hexagon 4 mm	55-128	135	14	0.280

## R3895 0000

### BIT SCREWDRIVER 1/4"



- > Dual-material handle, for easy handling
- > Hex recess drive as per DIN 3126 - D 6.3 (1/4"), for bits
- > Bit holder with strong magnet
- > Elongated hole in the handle for hanging up
- > Chrome-vanadium steel



Code	No.					
3301343	R38950000	1/4	6.3	100	210	0.110

## R3895 0001

### SQUARE PLUG-IN HANDLE 1/4"



- > For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- > Dual-material handle, for easy handling
- > Matt chrome-plated
- > Coupler in acc. with DIN 3120 - A 6.3, ISO 1174, with ball locking device
- > Female square in the handle suitable for ratchet-performed drive as per DIN 3120 - C 6.3, ISO 1174, with ball retaining groove
- > Chrome-vanadium steel



Code	No.					
3301344	R38950001	1/4	6.3	62	160	0.120

## R3867XXXX

### 2GT-HANDLE CRANKED WRENCH KEY



in-hex

- > Two-way profile
- > Dual-material handle
- > Blade of chrome-vanadium steel
- > Matt chrome-plated



Code	No.	mm	Blade length 1	Blade length 2	kg
3301274	R38672509	2,5	100	52	0.050
3301275	R38670309	3	100	52	0.044
3301276	R38670409	4	150	52	0.063
3301277	R38670512	5	150	65	0.080
3301278	R38670612	6	150	65	0.108
3301279	R38670814	8	200	75	0.217
3301280	R38671015	10	200	80	0.280

## R38672006

### 2GT-HANDLE CRANKED SOCKET KEY SET



In-hex, 6 pieces

- > Two-way profile
- > Dual-material handle for a hands-friendly transfer of force
- > Blade of chrome-vanadium steel
- > Matt chrome-plated



Code	No.	Contents	pieces	kg
3301281	R38672006	Size 2.5 3 4 5 6 8 mm	6	0.731

## R3660XXXX

### CRANKED SOCKET KEY



in-hex

- > Based on DIN ISO 2936
- > Hardened throughout
- > Chrome-vanadium steel
- > Phosphated



Code	No.	mm	Blade length 1	Blade length 2	kg
3301282	R36601508	1,5	50	16	0.002
3301283	R36600209	2	56	18	0.002
3301284	R36602511	2,5	63	20	0.003
3301285	R36600311	3	70	25	0.004
3301286	R36600413	4	80	28	0.010
3301287	R36600515	5	90	32	0.018
3301288	R36600617	6	95	34	0.030
3301290	R36600819	8	100	36	0.058
3301291	R36601020	10	112	40	0.102

## R36605009

### CRANKED SOCKET KEY SET



in-hex, 9 pieces

- > Based on DIN ISO 2936
- > Hardened throughout
- > Chrome-vanadium steel
- > Phosphated
- > In the holder



Code	No.	Contents	pieces	
3301331	R36605009	Size 1.5 2 2.5 3 4 5 6 8 10	9	0.250

## R36675009

### CRANKED SOCKET KEY SET



in-hex, 9 pieces

- > Based on DIN ISO 2936
- > With ball end
- > Hardened throughout
- > Chrome-vanadium steel
- > Phosphated
- > In the holder



Code	No.	Contents	pieces	
3301335	R36675000	Size 1.5 2 2.5 3 4 5 6 8 10	9	0.404

## R36405009

### CRANKED SOCKET KEY SET



TX, 9 pieces

- > Short version
- > Hardened throughout
- > Chrome-vanadium steel
- > Phosphated
- > In the holder



Code	No.	Contents	pieces	
3301354	R36405009	T10 T15 T20 T25 T27 T30 T40 T45 T50	9	0.240

# R3850 XXXX

## 2C-SOCKET WRENCH



external hex

- > Dual-material handle for a hands-friendly transfer of force
- > With hanging hole
- > Blade matt chrome-plated
- > Chrome-vanadium steel



Code	No.	mm	mm	mm	Ø	kg
3301368	R38500417	4	90	190	6.8	0.065
3301369	R38500517	5	90	190	7.8	0.065
3301370	R38500617	6	90	190	9.8	0.070
3301371	R38500719	7	100	210	10.3	0.090
3301372	R38500819	8	100	210	11.8	0.095
3301373	R38500919	9	100	210	12.8	0.100
3301374	R38501023	10	120	240	13.8	0.100
3301375	R38501123	11	120	240	15.8	0.145
3301376	R38501223	12	120	240	16.8	0.150
3301377	R38501323	13	120	240	17.8	0.155

# R3899 0000

## (DE)MAGNETISER

- > Magnetises tools and grippers
- > Demagnetises all tools which are used on electronic devices



Code	No.	W	H	D	kg
3301340	R38990000	52	50	29	0.082

### Bits 1/4" drive

### Bit boxes

# R3300 5007

## BIT BOX 1/4"



7 pieces

- > Bit box with the usual bit sizes and drive adapter with bit locking
- > Hexagon drive acc. to DIN 3126 ISO 1173 - C 6.3
- > Machine-operated
- > Phosphated
- > In the holder



Code	No.	Contents	pieces	kg
3301345	R33005007	1/4" slotted bits 4 5 6 mm 1/4" cross-head PH 1 2 3 Drive adapter 1/4" hex x 1/4" hex, with magnet	7	0.080

## R33005009

### BIT BOX 1/4"



9 pieces

- > Bit box with the usual bit sizes and drive adapter with bit locking
- > Hexagon drive acc. to DIN 3126 ISO 1173 - C 6.3
- > Machine-operated
- > Phosphated
- > In the holder



Code	No.	Contents	pieces	
3301346	R33005009	1/4" slotted bits 4 5 6 mm 1/4" cross-head PH 3 4 5 Drive adapter 1/4" hex x 1/4" hex, with magnet	9	0.086

## R33005014

### BIT BOX 1/4"



14 pieces

- > Bit box with the usual bit sizes and drive adapter with bit locking
- > Hexagon drive acc. to DIN 3126 ISO 1173 - C 6.3
- > Machine-operated
- > Phosphated
- > In the holder



Code	No.	Contents	pieces	
3301347	R33005014	1/4" hexagon bits, size 3 4 5 mm 1/4" slotted bits 4 5 6 mm 1/4" cross-head bits PH 1 2 3 1/4" TX bits T10 T15 T20 T25 Drive adapter 1/4" hex x 1/4" hex, with magnet	14	0.110

## R33005031

### BIT BOX 1/4"



32 pieces

- > Large Bit box with usual bit sizes
- > Drive adapter with magnetic bit locking
- > Hexagon drive acc. to DIN 3126 ISO 1173 - C 6.3
- > Machine-operated
- > Phosphated
- > In clearly arranged plastic box



Code	No.	Contents	pieces	
3301338	R33005031	In-hex 3 4 5 Slotted 0.6x4.5 1.0x5.5 1.2x6.5 2 of each: Cross-head PH 1 2 3 Cross-head PZ 1 2 3 TX T10 T15 T20 T25 T30 T40 Quick change adaptor for 1/4" bits C 6.3 with magnet Bit adapter 1/4" hex x 1/4" square	32	0.250



## Impact-type screw remover

**R3800 4006**  
SCREW REMOVER SET

6 pieces

- > Hammer-actuating screw remover, for extracting stiff screws
- > Clockwise/anticlockwise rotating direction, reversible
- > 1/2" square drive in acc. with DIN 3120 - A 12.5, ISO 1174, with ball locking device for sockets
- > 1/2" adapter, snap-on with hex recess drive in acc. with DIN 3126 - D 8 (5/16") with retention spring for bits
- > In robust sheet-metal case



Code	No.	Contents	pieces	
3301399	R38004006	Bit adapter 1/2" square on 5 1/6" hex recess 5/16" slotted bit 6 8 mm 5/16" cross-head PH 2 3	6	1.022

## Bits 10mm drive

## Bit sets

**R3500 3040**  
BIT SET 10 MM SK / XZN / TX

40 pieces

- > Reinforced bits, 10 mm
- > Hand-operated
- > Hexagon drive acc. to DIN 3126 ISO 1173 - C 10
- > Bit adapter female square drive 1/2" on hex recess mounting 10mm
- > Bit adapter female square drive 3/8" on hex recess mounting 10mm
- > In rugged plastic case



Code	No.	Contents	pieces	
3301572	R35003040	Hex recess bit, size 4 5 6 8 10 12   30 mm Hex recess bit, size 4 5 6 8 10 12   75 mm TX Bit T20 T25 T30 T40 T45 T50 T55   30 mm TX Bit T20 T25 T30 T40 T45 T50 T55   75 mm XZN-Bit M5 M6 M8 M10 M12   30 mm XZN-Bit M5 M6 M8 M10 M12   75 mm Bit adapter female square drive 1/2" on hex recess mounting 10mm Bit adapter female square drive 3/8" on hex recess mounting 10mm	40	1.750

# PLIERS

138 - 145



## Pliers

## R2830XXXX

### COMBINATION PLIERS



- > Acc. to DIN ISO 5746
- > Gripping zones for flat and round stock
- > Induction-hardened cutting edges
- > Dual-material handle for a hands-friendly transfer of force
- > Chrome-vanadium steel



Code	No.	Hard wire Ø mm	l mm	kg
3301124	R28302180	1,6	180	0.240
3301125	R28302200	1,8	200	0.305

## R2842XXXX

### POWER SIDE CUTTER



- > Acc. to DIN ISO 5749
- > High cutting performance with little force applied
- > Slim head
- > Induction-hardened long cutting edges
- > Dual-material handle for a hands-friendly transfer of force
- > Chrome-vanadium steel



Code	No.	Piano wire Ø mm	l mm	kg
3301127	R28422180	1,8	180	0.230
3301128	R28422200	2,0	200	0.320

## R28402160

### SIDE CUTTER



- > Acc. to DIN ISO 5749
- > Slim head
- > Induction-hardened long cutting edges
- > Dual-material handle for a hands-friendly transfer of force
- > Chrome-vanadium steel



Code	No.	Hard wire Ø mm	l mm	kg
3301130	R28402160	1,6	160	0.191

## R2850XXXX

### BENT NOSE TELEPHONE PLIERS



straight

- > Acc. to DIN ISO 5745
- > Straight grip surfaces, lengthways-serrated
- > Induction-hardened cutting edges
- > Dual-material handle for a hands-friendly transfer of force
- > Chrome-vanadium steel



Code	No.	Hard wire Ø mm	l mm	kg
3301131	R28502160	1,6	160	0.150
3301133	R28502200	1,8	200	0.200

## R2851 XXXX

### BENT NOSE TELEPHONE PLIERS



45° angle

- > Acc. to DIN ISO 5745
- > 45% angled grip surfaces, lengthways-serrated
- > Induction-hardened cutting edges
- > Dual-material handle for a hands-friendly transfer of force
- > Chrome-vanadium steel



Code	No.	Hard wire Ø mm	l mm	kg
3301134	R28512160	1,6	160	0.166
3301136	R28512200	1,8	200	0.220

## R2820 2176

### STRIPPING PLIERS



- > Opening stop with adjustment screw and spring
- > Dual-material handle for a hands-friendly transfer of force
- > Special tool steel, forged



Code	No.	Strips wires	l mm	kg
3301844	R28022176	10 mm <sup>2</sup>   AWG 7	175	0.190

## R2800 2003

### PLIERS SET



3 pieces

- > Induction-hardened cutting edges
- > Dual-material handles for a hands-friendly transfer of force
- > Chrome-vanadium steel



Code	No.	Contents	pieces	kg
3301155	R28002003	Combination pliers 180 mm Side cutter 160 mm Telephone pliers, straight 200 mm	3	0.711

## R2890 4201

### PINCER

- > Acc. to DIN ISO 9243
- > Head ground
- > Standard heavy-duty pincers
- > Induction-hardened cutting edges
- > Dip-coated handle covers
- > Special tool steel, forged



Code	No.	Medium-hard wire Ø mm	l mm	kg
3301874	R28904201	2,0	200	0.375

## R2892XXXX TOWER PINCER

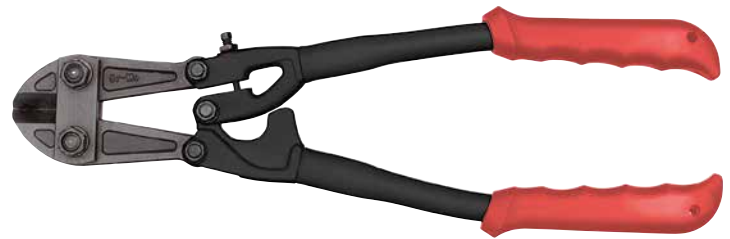
- > Acc. to DIN ISO 9242
- > Head ground
- > Standard heavy-duty pincers
- > Induction-hardened cutting edges
- > Dip-coated handle covers
- > Special tool steel, forged



Code	No.	Medium-hard wire Ø mm	l mm	kg
3301842	R28924110	2,4	250	0.395
3301843	R28924112	3,1	300	0.550

## R2880XXXX BOLT CUTTERS

- > Induction-hardened, phosphated precision cutting edges
- > Angled tubular steel leg for ease of use
- > Ergonomically formed 1-component handles
- > High quality tempered special steel



Code	No.	Cutting capacity HRC 19 Ø mm	Cutting capacity HRC 40 Ø mm	l mm	kg
3301150	R28801018	8	6	450	1.400
3301151	R28801024	9	8	600	2.500
3301152	R28801030	11	9	750	3.900
3301153	R28801036	13	10	900	5.900

### Circlip pliers

## R2760XXXX CIRCLIP PLIERS FOR EXTERNAL RETAINING RINGS

straight

- > Acc. to DIN 5254, Form A
- > Straight precision tips
- > With opening spring
- > DIN 471 for retaining rings
- > DIN 983 for shaft diameter
- > Dip-coated handle covers
- > Chrome-vanadium steel



Code	No.	Size	Tip-Ø	Ring-Ø	kg
3301137	R27604025	A1	1.3	10.0	0.098
3301138	R27604060	A2	1.8	19.0	0.180
3301139	R27604100	A3	2.3	40.0	0.234

**R2765XXXX**CIRCLIP PLIERS FOR  
EXTERNAL RETAINING RINGS

angled

- > Acc. to DIN 5254, Form B
- > 90° precision tips
- > With opening spring
- > DIN 471 for retaining rings
- > DIN 983 for shaft diameter
- > Dip-coated handle covers
- > Chrome-vanadium steel



Code	No.	Size	Tip-Ø	Ring-Ø	
<b>3301140</b>	R27654025	A11	1.3	10.0	0.097
<b>3301141</b>	R27654060	A21	1.8	19.0	0.160
<b>3301142</b>	R27654100	A31	2.3	40.0	0.230

**R2770XXXX**CIRCLIP PLIERS FOR  
INTERNAL RETAINING RINGS

straight

- > Acc. to DIN 5256 Form C
- > Straight precision tips
- > DIN 472 for retaining rings
- > DIN 984 for drill hole diameter
- > Dip-coated handle covers
- > Chrome-vanadium steel



Code	No.	Size	Tip-Ø	Ring-Ø	
<b>3301143</b>	R27704025	J1	1.3	12.0	0.081
<b>3301144</b>	R27704060	J2	1.8	19.0	0.150
<b>3301145</b>	R27704100	J3	2.3	40.0	0.208

**R2775XXXX**CIRCLIP PLIERS FOR  
INTERNAL RETAINING RINGS

angled

- > Acc. to DIN 5256 Form D
- > 90° precision tips
- > DIN 472 for retaining rings
- > DIN 984 for drill hole diameter
- > Dip-coated handle covers
- > Chrome-vanadium steel



Code	No.	Size	Tip-Ø	Ring-Ø	
<b>3301146</b>	R27754025	J11	1.3	12.0	0.082
<b>3301147</b>	R27754060	J21	1.8	19.0	0.150
<b>3301148</b>	R27754100	J31	2.3	40.0	0.208

# R28002004 CIRCLIP PLIERS SET

straight, 4 pieces

- > Circlip pliers for external retaining rings, straight and angled, Size 2
- > Circlip pliers for internal retaining rings, straight and angled, Size 2
- > Dip-coated handle covers
- > Chrome-vanadium steel



Code	No.	Contents	pieces	
3301156	R28002004	External circlip pliers straight A2 External circlip pliers angled A21 Internal circlip pliers straight J2 Internal circlip pliers angled J21	4	0.680

## Pipe/water pump pliers

# R2710XXXX PIPE WRENCH

Swedish pattern

- > Acc. to DIN 5234
- > Solid type
- > 90° jaw set
- > Teeth offset against direction of rotation
- > Jaws polished
- > Secure knurled nut
- > Chrome-vanadium steel



Code	No.	"inch	mm	↳ mm	
3301157	R27100010	1	40	320	0.780
3301158	R27100015	1.1/2	55	420	1.356
3301159	R27100020	2	67	555	2.550
3301160	R27100030	3	103	635	3.100

# R2714XXXX PIPE WRENCH

S-jaw

- > Acc. to DIN 5234
- > Solid type
- > 45° jaw set
- > Teeth offset against direction of rotation
- > Jaws polished
- > Secure knurled nut
- > Chrome-vanadium steel



Code	No.	"inch	mm	↳ mm	
3301167	R27140010	1	40	325	0.800
3301168	R27140015	1.1/2	55	420	1.460
3301169	R27140020	2	67	535	2.500
3301170	R27140030	3	103	640	4.220

## R2716XXXX

### PIPE WRENCH

American pattern

- > Stillson type
- > Hardened knurled nut fixes span width
- > Hole for hanging up
- > Forged steel



Code	No.	inch	mm	inch	mm	kg
3301203	R27160007	1.1/2	38	8	200	0.400
3301204	R27160009	1.7/8	43	10	250	0.800
3301205	R27160011	2.1/8	53	12	300	1.000
3301206	R27160012	2.3/8	58	14	350	1.400
3301207	R27160016	3	76	18	450	2.100
3301208	R27160021	3.1/2	89	24	600	3.500
3301209	R27160030	5.1/2	140	36	900	7.900

## R2810XXXX

### WATER PUMP PLIERS



7 settings

- > Acc. to DIN 8976 Form C
- > Lengthways-serrated grip surfaces
- > With box joint
- > 7 settings
- > Head and joint polished
- > Chrome-vanadium steel
- > Red powder-coating



Code	No.	mm	inch	mm	kg
3301174	R28100007	25	7	175	0.160
3301175	R28100010	33	10	250	0.300
3301176	R28100012	42	12	300	0.406

## R28154010

### WATER PUMP PLIERS



- > Acc. to DIN 8976
- > Automatic setting mechanism for one-handed operation
- > Safety-box joint, substantial stability from a double guide
- > Slender design eases access to workpiece
- > Lengthways-serrated grip surfaces
- > Head polished
- > Dip-coated handle covers
- > Chrome-vanadium steel



Code	No.	mm	inch	mm	kg
3301172	R28154010	35	10	250	0.374



Locking pliers

**R2720XXXX**  
LOCKING PLIERS



- > For clamping and gripping profile sections, round and flat stock
- > Lengthways-serrated grip surfaces
- > Adjustment screw and release lever
- > One-handed operation
- > Surface chrome-plated
- > Chrome-vanadium steel



Code	No.	mm	inch	mm	
3301177	R27200007	35	7	185	0.375
3301178	R27200010	40	10	225	0.545
3301179	R27200012	60	12	295	0.910

**R27202003**  
CURVED JAW LOCKING PLIERS SET



- > For clamping and gripping profiled, round and flat-section material
- > Lengthways-serrated grip surfaces
- > Adjustment screw and release lever
- > One-handed operation
- > Surface chrome-plated
- > Chrome-vanadium steel



Code	No.	Contents	pieces	
3301180	R27202003	Length 7" 10" 12"	3	1.950

**R27220065**  
LONG NOSE LOCKING PLIERS



- > For clamping and gripping profiled, round and flat-section material
- > Long jaws for difficult-to-reach and tight spots
- > Lengthways-serrated grip surfaces
- > Adjustment screw and release lever
- > One-handed operation
- > Surface chrome-plated
- > Chrome-vanadium steel



Code	No.	mm	inch	mm	
3301181	R27220065	50	6,5	175	0.175

# VICES

146 - 147



**R9380 0125**

## VICE

rigid

- > Centric guidance for absolutely parallel clamping
- > Vice opening to the front
- > Precise guidance
- > With anvil
- > Max. clamping force 25 kN
- > Cast-iron



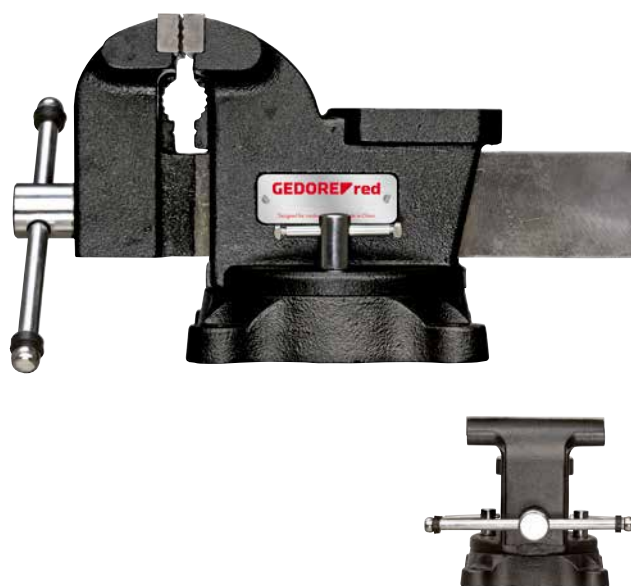
Code	No.	Type	mm	mm	kg
3301737	R93800125	rigid	125	125	19.0

**R9380 0150**

## VICE

with rotary plate

- > Centric guidance for absolutely parallel clamping
- > Vice opening to the front
- > Chuck for 13.5 - 56 mm diameter pipes
- > Precise guidance
- > With anvil
- > Max. clamping force 25 kN
- > Cast-iron



Code	No.	Type	mm	mm	kg
3301738	R93800150	with rotary plate	150	125	14.0

# STRIKING TOOLS

148-157






## Hammers

## R9210XXXX

### ENGINEERS' HAMMER

- > Drop-forged hammer head, black paint-finished, of heat-treated steel
- > Striking surfaces inductively case-hardened for tough long-term work
- > Acc. to DIN 1041
- > DIN, manufacturer and weight marked for permanence
- > Safety bevel precision-ground to 45° at striking face and pein
- > Contoured ash handle
- > Paint-finished handle end improves the surface feel
- > 360° clamping force of the tapered collar fixes the hammer head






Code	No.	g 	l mm 	kg 
3300710	R92100004	100	260	0.170
3300711	R92100008	200	280	0.264
3300712	R92100012	300	300	0.432
3300713	R92100016	400	300	0.565
3300714	R92100020	500	320	0.622
3300715	R92100032	800	350	0.950
3300716	R92100040	1000	360	1.164
3300717	R92100055	1500	380	1.720
3300718	R92100065	2000	400	2.200

## R9212XXXX

### ENGINEERS' HAMMER

- > Drop-forged hammer head, black paint-finished, of heat-treated steel
- > Striking surfaces inductively case-hardened for tough long-term work
- > Acc. to DIN 1041
- > DIN, manufacturer and weight marked for permanence
- > Practically unbreakable fibre glass handle



Code	No.	g 	l mm 	kg 
3300720	R92120012	300	300	0.480
3300722	R92120020	500	320	0.730
3300723	R92120032	800	350	1.100

## R9220XXXX CLUB HAMMER

- › Drop-forged hammer head, black paint-finished, of heat-treated steel
- › Striking surfaces inductively case-hardened for tough long-term work
- › Acc. to DIN 6475
- › DIN, manufacturer and weight marked for permanence
- › Safety bevel precision-ground to 45° at striking face
- › Contoured ash handle
- › Paint-finished handle end improves the surface feel
- › 360° clamping force of the tapered collar fixes the hammer head



Code	No.	g	↳ mm	↕ kg
3300725	R92200040	1000	260	1.164
3300726	R92200050	1250	260	1.350
3300727	R92200055	1500	280	1.690
3300728	R92200065	2000	300	2.110
3300729	R92200083	5000	810	5.500

## R9230 0083 SLEDGE HAMMER

- › Drop-forged hammer head, black paint-finished, of heat-treated steel
- › Striking surfaces inductively case-hardened for tough long-term work
- › Acc. to DIN 1042
- › DIN, manufacturer and weight marked for permanence
- › Safety bevel precision-ground to 45° at striking face
- › Ash handle
- › 360° clamping force of the tapered collar fixes the hammer head



Code	No.	g	↳ mm	↕ kg
3300737	R92300083	5000	800	5.894

## R9250XXXX RUBBER HAMMER

- › Hammer head of hard rubber
- › Acc. to DIN 5128-90
- › With two flat striking surfaces
- › Straight ash handle
- › Paint-finished handle end improves the surface feel



Code	No.	∅ mm	↳ mm	↕ kg
3300738	R92500048	48	315	0.370
3300739	R92500058	58	315	0.520

## R9250XXXX

### RUBBER HAMMER

- > Hammer head of hard rubber
- > 1 crowned face and a striking face
- > Straight ash handle



Code	No.	Ø mm	l- mm -l	kg
3300740	R92500163	63	330	0.580
3300741	R92500179	79	360	0.920

## R9260 0030

### NYLON HAMMER

- > Exchangeable heads made from impact-resistant nylon
- > Straight ash handle



Code	No.	Description	Ø mm	l- mm -l	kg
3300744	R92600030	Nylon hammer head D.30mm L.280mm ash	30	280	0.300
3300746	R92950030	Spare head D.30mm nylon f.recoilless hammer	30		0.036

## R9216XXXX

### MACHINISTS' HAMMER

- > Drop-forged hammer head of heat-treated steel
- > Precision-like ground striking face and ball
- > Contoured hickory handle
- > 360° clamping force of the tapered collar fixes the hammer head



Code	No.	lbs	g	l- mm -l	kg
3300766	R92160002	1/4	113	255	0.176
3300767	R92160003	1/2	227	290	0.340
3300768	R92160004	3/4	340	310	0.470
3300769	R92160005	1	453	330	0.940
3300770	R92160008	1.1/2	680	350	0.920
3300771	R92160010	2	907	390	1.060

## R92420023

### CLAW HAMMER, AMERICAN PATTERN

- > Forged type from special steel
- > Pein with nail extractor
- > Striking face and pein polished
- > Rounded edges
- > Practically unbreakable fibreglass handle with plastic grip



Code	No.	Ø mm	g	oz	lbs	l mm	kg
3300782	R92420023	27	570	20	1.1/4	340	0.800

## R92430023

### CLAW HAMMER, AMERICAN PATTERN

- > Forged type from special steel
- > Pein with nail extractor
- > Striking face and pein polished
- > Rounded edges
- > Tubular steel handle with plastic grip



Code	No.	Ø mm	g	oz	lbs	l mm	kg
3300783	R92430023	27	570	20	1.1/4	320	0.830

## R92402024

### CARPENTER'S HAMMER

- > Forged type, black paint-finished, from special steel
- > Rounded edges
- > Pein with magnetic nail groove
- > Tubular steel handle with plastic grip
- > Secured head



Code	No.	g	oz	lbs	l mm	kg
3300784	R92402024	600	21	1.1/4	330	0.880



## Chisels / Punches

**R9199 0000**  
PROTECTIVE HAND GUARD

For chisel

- > Impact-resistant plastic
- > Avoids injuries of the hand
- > No rolling away (rectangular shape)
- > Oil-proof



Code	No.	oval	octagonal	↳ mm ↲	⚖
3300827	R91990000	20x12 - 26x13 mm	16 - 20 mm	120	0.134

**R9114 XXXX**  
FLAT CHISEL

flat oval

- > Acc. to DIN 6453
- > Cutting edge and head ground
- > Striking end tempered
- > Shaft copper, tip paint-coated in silver
- > Made from chrome-vanadium steel



Code	No.	mm ↲	Shaft thickness	↳ mm ↲	⚖
3300785	R91140016	15	9	125	0.100
3300786	R91140021	18	11	150	0.180
3300787	R91140026	21	12	175	0.280
3300788	R91140031	24	13	200	0.400
3300789	R91140041	25	13	250	0.500
3300790	R91140051	26	13	300	0.600

**R9125 XXXX**  
BRICKLAYER'S CHISEL

octagonal

- > Acc. to DIN 7254, Form B
- > Cutting edge and head ground
- > Striking end tempered
- > Shaft copper, tip paint-coated in silver
- > Made from chrome-vanadium steel



Code	No.	mm ↲	octagonal	↳ mm ↲	⚖
3300791	R91250041	23	16	250	0.400
3300792	R91250051	23	16	300	0.470
3300793	R91250056	26	18	350	0.700
3300794	R91250061	26	18	400	0.791

## R9129XXX

### BRICKLAYER'S CHISEL



flat oval

- > Acc. to DIN 7254, Form A
- > Cutting edge and head ground
- > Striking end tempered
- > Shaft copper, tip paint-coated in silver
- > Made from chrome-vanadium steel



Code	No.	mm	octagonal	l mm	
3300795	R91290041	26	12	250	0.400
3300796	R91290051	29	13	300	0.600
3300797	R91290056	29	13	350	0.702

## R9149 0016

### CROSS-CUT CHISEL



flat oval

- > Acc. to DIN 6451
- > Cutting edge, sides and head ground
- > Striking end tempered
- > Shaft copper, tip paint-coated in silver
- > Made from chrome-vanadium steel



Code	No.	mm	Shaft thickness	l mm	
3300799	R91490016	5	9	125	0.100
3300800	R91490021	6	11	150	0.170

## R9137 0039

### SPLITTING CHISEL



flat

- > Cutting edge and head ground
- > Striking end tempered
- > Shaft copper, tip paint-coated in silver
- > Made from chrome-vanadium steel



Code	No.	mm	Shaft thickness	l mm	
3300802	R91370039	26	4	240	0.260


## R9140XXXX

### POINT CHISEL

octagonal

- > Acc. to DIN 7256
- > Cutting edge and head ground
- > Striking end tempered
- > Shaft copper, tip paint-coated in silver
- > Made from chrome-vanadium steel



Code	No.	octagonal	l- mm -l	
<b>3300803</b>	R91400041	16	250	0.380
<b>3300804</b>	R91400051	16	300	0.460
<b>3300805</b>	R91400056	18	350	0.700
<b>3300806</b>	R91400061	18	400	0.805



## R91310041

### ELECTRICIANS' CHISEL

square

- > For mortising slots, working on masonry, cutting wood and plasterboard
- > Cutting edge and head ground
- > Striking end tempered
- > Shaft copper, tip paint-coated in silver
- > Made from chrome-vanadium steel



Code	No.	mm 	square	l- mm -l	
<b>3300807</b>	R91310041	8	6	250	0.064


## R9020XXXX

### PIN PUNCH

octagonal

- > Acc. to DIN 6450
- > Striking end tempered
- > Shaft copper, tip paint-coated in silver
- > Made from chrome-vanadium steel



Code	No.	Tip diameter	Shaft diameter	l- mm -l	
<b>3300808</b>	R90200221	2	10	150	0.065
<b>3300809</b>	R90200321	3	10	150	0.065
<b>3300810</b>	R90200421	4	10	150	0.065
<b>3300811</b>	R90200521	5	10	150	0.065
<b>3300812</b>	R90200621	6	10	150	0.075
<b>3300813</b>	R90200721	7	12	150	0.105
<b>3300814</b>	R90200821	8	12	150	0.110
<b>3300815</b>	R90201021	10	12	150	0.125

## R9010XXXX DRIFT PUNCH



octagonal

- > Acc. to DIN 6458
- > Striking end tempered
- > Shaft copper, tip paint-coated in silver
- > Made from chrome-vanadium steel



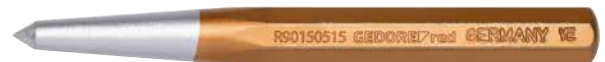
Code	No.	Tip diameter	Shaft diameter	↳ mm ↳	
3300816	R90100115	1	10	120	0.060
3300817	R90100215	2	10	120	0.060
3300818	R90100315	3	10	120	0.060
3300819	R90100415	4	12	120	0.090
3300820	R90100515	5	12	120	0.090

## R9015XXXX CENTRE PUNCH



octagonal

- > Acc. to DIN 7250
- > Striking end tempered
- > Shaft copper, tip paint-coated in silver
- > Made from chrome-vanadium steel



Code	No.	Ø	Shaft diameter	↳ mm ↳	
3300821	R90150415	4	10	120	0.080
3300822	R90150515	5	12	120	0.095

## R91901004 PROTECTING CHISEL SET

4 pieces

- > For completing decorative and window rails in a paint-saving manner
- > For the removal of adhesive weights on aluminium rims
- > Flexible chisel blades
- > Striking cap for light strikes
- > Ergonomic handle
- > Made of special plastic



Code	No.	Blade width	↳ mm ↳	pieces	
3301570	R91901004	3/4" 19 mm 7/8" 22 mm 1" 26 mm 1.1/2" 38 mm	275	4	0.525

## Sets

**R9020XXX**  
PIN PUNCH SET

6 pieces

- > Acc. to DIN 6450
- > Striking ends tempered
- > Shaft copper, tip paint-coated in silver
- > Made from chrome-vanadium steel
- > In metal case with lid



R90200106



R90200006



Code	No.	Contents	pieces	kg
3300823	R90200006	Ø 3 4 5 6 7 8 mm	6	0.800
3300824	R90200106	Ø 3 4 5 6 8 10 mm	6	0.820

**R9010 0006**  
DRIFT PUNCH SET

6 pieces

- > Acc. to DIN 6458 and DIN 7250
- > Striking ends tempered
- > Shaft copper, tip paint-coated in silver
- > Made from chrome-vanadium steel
- > In metal case with lid



Code	No.	Contents	pieces	kg
3300825	R90100006	Drift punches Ø 1 2 3 5 10 mm Centre punch Ø 4 mm	6	0.720

**R9000 0006**  
STRIKING TOOL SET

6 pieces

- > Striking ends tempered
- > Shaft copper, tip paint-coated in silver
- > Made from chrome-vanadium steel
- > In metal case with lid



Code	No.	Contents	pieces	kg
3300826	R90000006	Flat cold chisel, length 125 mm 150 mm Cross-cut chisel, length 125 mm Drift punch Ø 3 mm Centre punch Ø 4 mm Pin punch Ø 4 mm	6	0.820

# MEASURING / MARKING

158 - 161



## Spirit levels

### R9410XXXX SPIRIT LEVEL

- > Smooth aluminium rectangular profile
- > One vertical and one horizontal vial, acrylic glass, plexiglass
- > Measurement accuracy: +/- 0.5 mm/m
- > Red powder-coating
- > End caps of black, impact-resistant plastic
- > Hanging hole



Code	No.	l<mm>l	kg
3301422	R94100051	300	0.170
3301436	R94100075	600	0.260
3301423	R94100087	1000	0.480

### R9410XXXX SPIRIT LEVEL

with a movable vial, magnetic

- > Smooth aluminium rectangular profile
- > One vertical and one horizontal vial
- > Also with a third, rotating angle spirit level for ease in measuring an angle
- > Magnetic
- > Measurement accuracy: +/- 0.5 mm/m
- > Brushed aluminium
- > End caps of black, impact-resistant plastic
- > Hanging hole




Code	No.	l<mm>l	kg
3301424	R94100151	300	0.170
3301425	R94100187	1000	0.482

## Measuring

### R9450 0002 WOOD SECTIONED FOLDING RULER

- > With easy to read metric dual scale
- > Accuracy class III
- > EG-design approval for continuous mm graduation
- > Beech wood with through-riveted joints




Code	No.	↳ mm ↳	
3301426	R94500002	2000	0.086

### R9455 XXXX TAPE MEASURE

- > Housing from 2-component ABS, fitted out with metal clip
- > Nylon-coated tape measure, abrasion resistant, waterproof, yellow paint finish
- > mm-graduation in black
- > Decimals highlighted in red
- > Automatic tape rewind and lock
- > Magnetic stop
- > Accuracy class II






Code	No.	L m	mm	
3301427	R94550003	3	19	0.201
3301428	R94550005	5	19	0.265
3301429	R94550008	8	25	0.468

## Gauges

### R9442 0021 DIGITAL MEASURING CALLIPER

- > Large LCD display 30 x 10 mm, automatic shutdown
- > Reset-adjustment possible at any position
- > For outdoor, interior, stepped and depth gauging
- > Precision roller adjustment
- > mm/inch switch-over
- > With inside and outside jaws
- > Ground tips
- > In sturdy plastic case incl. spare battery
- > Operating instructions
- > Connection to PC interface
- > Adjusting screw for measured value fixing
- > Thread chart on the back



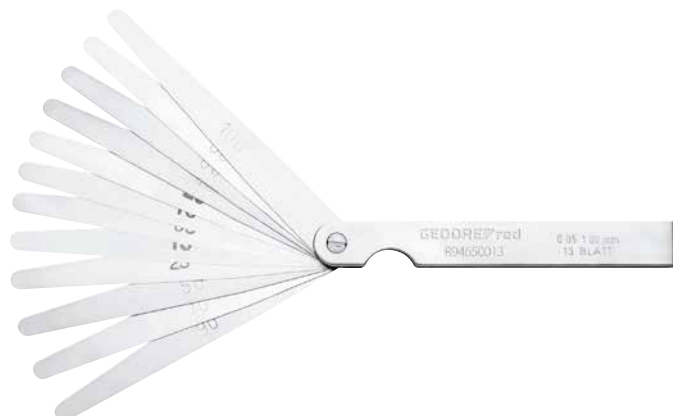
Code	No.	mm 	"inch 	
3301430	R94420021	153	6	0.340



## R9465 0013

### FEELER GAUGE SET

- > With protective handle, folding
- > For checking in-between spaces, contact intervals etc.
- > Blades tapering to a cone
- > Made of hardened spring steel
- > Individually labelled with details of sizes



Code	No.		
3301431	R94650013	5 10 15 20 25 30 40 50 60 70 80 90 100/100	0.100

## Marking

## R9095 0012

### PENCIL

Value pack

- > For drawing and marking on practically all materials
- > Oval form stops them rolling off when put down



Code	No.	« mm »	pieces	
3301432	R90950012	175	12	0.020

## R9090 0020

### CARBIDE SCRIBER WITH CLIP

- > Pencil and carbide scriber in one
- > Straight
- > Retractable nib
- > For drawing and marking on metallic and similar surfaces
- > Metal housing
- > Attaching clip



Code	No.	« mm »	
3301433	R90900020	150	0.020

# CUTTING / FILING / DRILLING

162 - 171



## Cutting

**R9321XXXX**  
HEAVY-DUTY UTILITY KNIFE

- > Multi-component handle
- > Aluminium housing
- > Quick-change mechanism
- > One-handed operation
- > For right and left-handers
- > Supplied with 1 trapezoid blade and 4 spare trapezoid blades
- > Blade cartridge
- > Sturdy design



Code	No.	Description	l mm	kg
<b>3301598</b>	R93210000	Heavy-duty utility knife 5blades Multiple C handle	165	0.310
<b>3301599</b>	R93960000	Trapezoid blades f.Cutter No.R93210000		0.040
<b>3301600</b>	R93960100	Hooked blades f.Cutter No.R93210000		0.050

**R9320XXXX**  
UTILITY KNIFE

- > Blade 9 mm wide
- > Plastic housing
- > Metal blade guide
- > One-handed operation
- > For right-handers
- > Supplied with 5 spare blades (80mm long, 0.4mm thick)
- > Blade cartridge



Code	No.	Description	l mm	mm	kg
<b>3301601</b>	R93200010	Utility knife 5blades-B.9mm	145	9	0.068
<b>3301602</b>	R93950010	Spare break-off blades B.9mm 10pcs		9	0.030

## R9320XXXX

### UTILITY KNIFE



- > Blade 18 mm wide
- > Plastic housing
- > Metal blade guide
- > One-handed operation
- > For right-handers
- > Supplied with 5 spare blades (100mm long, 0.4mm thick)
- > Blade cartridge
- > With built-in sharpener



Code	No.	Description		- mm	
3301603	R93200018	Utility knife 5blades-B.18mm + sharpener	175	18	0.160
3301604	R93950018	Spare break-off blades B.18mm 10pcs		18	0.088

## R9320XXXX

### UTILITY KNIFE



- > Practical belt clip
- > Blade 25 mm wide
- > Plastic housing
- > Metal blade guide
- > One-handed operation
- > For right-handers
- > Supplied with 5 spare blades (125mm long, 0.5mm thick)
- > Blade cartridge



Code	No.	Description		- mm	
3301605	R93200025	Utility knife 5blades-B.25mm w. clip	205	25	0.280
3301606	R93950025	Spare break-off blades B.25mm 10pcs		25	0.170

## R9325 0008

### POCKET KNIFE

- > Two-handed operation knife
- > Secure in pocket and on belt; cannot be accidentally opened
- > Blade locking feature
- > Coated blade
- > With sawing function for fibrous materials e.g ropes and textiles
- > Practical belt clip
- > Dual-material handle, for easy handling
- > Handle loop for safeguarding





Code	No.			
3301615	R93250008	87	210	0.154

## R9330 0031 UNIVERSAL SCISSORS

- > Suitable for cutting seals and other materials (paper, cardboard, plastic, leather etc.)
- > Additional small blade for thin wires and cables
- > With wire stripper for 1.0, 1.5 and 2.0 mm cables in the handle
- > For right and left-handers
- > Locking lever
- > Dual-material handle, for easy handling
- > Blade of stainless steel



Code	No.		l- mm -l	
3301607	R93300031	50	205	0.190

## R9331 XXXX IDEAL PATTERN SNIPS

- > Self-opening with installed spring, with lock
- > Induction-hardened precision cutting edges
- > Dual-material handle, for easy handling
- > Made of special tool steel




R93310041



R93310141

R93310241

Code	No.	Model	l- inch -l	l- mm -l	
3301741	R93310041	right hand cutting	10	250	0.410
3301742	R93310141	straight cutting	10	250	0.410
3301743	R93310241	left hand cutting	10	250	0.410

## R9980 0000 MULTIFUNCTION TOOL

- > Stainless steel
- > Blade locking feature
- > Ergonomic handle, for easy handling



Code	No.	
3301757	R99800000	0.210

## Saws

## R9335 0051

### MULTIFUNCTION SAW

**Multifunctional:**

- > Saw blade and bow can be turned through 90° = saw blade parallel to the wall and floor
- > Bow can be turned through 180° = low height for use in tight spaces
- > Very lightweight
- > Hand protection
- > Dual-material handle, for easy handling
- > Supplied with HSS bi-metal saw blade (24 tpi)



Code	No.	↳ mm ↳	⚖
3301608	R93350051	300	0.470

## R9335 XXXX

### HACKSAW

- > Aluminium
- > Black plastic handle
- > Easy to tension and adjust
- > Supplied with universal saw blade






Code	No.	Description	↳ mm ↳	⚖
3301609	R93350021	Hacksaw blade-L.150mm Alu.	150	0.220
3301610	R93990021	Saw blade L.150mm f.saw No. R93350021	150	0.012

Files

## R931XXXX FILES

- > Acc. to DIN 7261 Form B, C, D, E, F
- > Dual-material handle, for easy handling
- > Hanging hole
- > Made from special steel






Code	No.	Description	Model	Cut			
3301591	R93100052	Three-edged file with cut L.310mm 2C-handle	▲	2	200	310	0.184
3301592	R93120052	Flat file with cut 2 L.310mm 2C-handle	■	2	200	310	0.192
3301593	R93140052	Round file with cut 2 L.310mm 2C-handle	●	2	200	310	0.124
3301594	R93160052	Half-round file with cut 2 L.310mm 2C-handle	◐	2	200	310	0.190
3301595	R93180052	Square file with cut 2 L.310mm 2K-handle	■	2	200	310	0.124

## R9300005 FILE SET

5 pieces

- > Acc. to DIN 7261 Form B, C, D, E, F
- > Dual-material handle, for easy handling
- > Hanging hole
- > Made from special steel
- > In plastic bag






Code	No.	Contents	Model	Cut			pieces	
3301597	R93000005	Three-edged file Flat file Round file Half-round file Square file	▲ ■ ● ◐ ■	2	200	310	5	0.820

## R9300006 KEY FILE SET

6 pieces

- > With wooden handles
- > Made from special steel



Code	No.	Contents	Model			pieces	
3301596	R93000006	Three-edged file Flat file Flat tip file Round file Half-round file Square file	▲ ■ ■ ● ◐ ■	100	177	6	0.850


## Wire brushes

**R93700043**

## WIRE BRUSH

with wooden handle



Code	No.	Model	↳ mm ↲	
3301785	R93700043	3-row	260	0.085

**R93710043**

## WIRE BRUSH

with plastic handle

› carbon bristles



Code	No.			
3301786	R93710043			0.095


**R93710143**

## WIRE BRUSH

with plastic handle

› carbon bristles



Code	No.	Model		
3301787	R93710143	3-row		0.120



Drilling

# R9350 0025

## TWIST DRILL BIT SET, ROLLED



25 pieces

- > HSS Twist drill bit DIN 338, Type N
- > Right hand cutting
- > Tip angle: 118°
- > Heavy-duty steel
- > Black, steam-annealed surface
- > In a sheet steel case
- > Rugged hinges



Code	No.	Contents	pieces	
3301611	R93500025	1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0 12.5 13.0 mm	25	1.263

# R9351 0025

## TWIST DRILL BIT SET, BLANK



25 pieces

- > HSS Twist drill bit DIN 338, Type N
- > Right hand cutting
- > Tip angle: 118°
- > Heavy-duty steel
- > True running
- > Bright-finished surface
- > In a sheet steel case
- > Rugged hinges



Code	No.	Contents	pieces	
3301613	R93510025	1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0 12.5 13.0 mm	25	1.263

## R9350 0170

### TWIST DRILL BIT SET, ROLLED



170 pieces

- > HSS Twist drill bit DIN 338, Type N
- > Right hand cutting
- > Tip angle: 118°
- > Heavy-duty steel
- > Black, steam-annealed surface
- > In metal assortment box with plastic insert
- > Rugged hinges



Code	No.	Contents	pieces	
3301612	R93500170	In each instance 10x 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 mm In each instance 5x 8.5 9.0 9.5 10.0 mm	170	3.724

## R9355 0017

### SDS MASONRY DRILL BIT SET

17 pieces

- > For drilling, cutting, demolition and breaching work in masonry and concrete
- > Carbide hammer drill bits and chisels
- > SDS-plus holder
- > Made of high-grade steel for extra long service lives
- > In metal assortment box with plastic insert
- > Rugged hinges



Code	No.	Contents	pieces	
3301614	R93550017	1 of each: Carbide hammer drill bits $\emptyset$ 5x110, $\emptyset$ 6x110, $\emptyset$ 8x110, $\emptyset$ 10x110, $\emptyset$ 6x160, $\emptyset$ 8x160, $\emptyset$ 10x160, $\emptyset$ 12x160, $\emptyset$ 8x210, $\emptyset$ 10x210, $\emptyset$ 12x260, $\emptyset$ 14x260 mm 1 of each: Flat chisels 250x40, 140x20, 250x20 Point chisels 140, 250 mm	17	3.364

## Installation

## R9360 0022

### SMALL TUBE CUTTER

- > For copper tubes
- > 2 supporting rollers
- > Metal housing
- > Particularly suitable for barely accessible places
- > Knurled adjusting wheel




Code	No.	Description	$\emptyset$ mm	
3301616	R93600022	Small tube cutter Copper tube-D.3-22mm	3-22	0.140
3301618	R93980005	Spare cutting wheels for copper 5pcs		0.005

## R9360 0035

### TUBE CUTTER

- > For copper tubes
- > With retractable deburring tool
- > Exact telescope guide
- > Guiding rollers with groove for flared tubes
- > 4 supporting rollers
- > Metal housing
- > Large turning handle



Code	No.	Description	Ø mm	
3301617	R93600035	Tube cutter Copper tube D.3-35mm	3-35	0.560
3301618	R93980005	Spare cutting wheels for copper 5pcs		0.005

## R9921 0000

### CARTRIDGE CAULKING GUN

- > For processing silicon, packed in bag or cartridge form, for 310 ml contents
- > Stable aluminium tube
- > Easy to handle and clean
- > Quicker and easier cartridge change
- > Supplied with 3 tips




Code	No.	L	H	
3301753	R99210000	340	210	0.840

## R9340 0060

### SCRAPER

- > For minor improvements/repair
- > Apply, spread and smooth down
- > With wooden handle
- > Hanging hole



Code	No.	Blade width mm	
3301754	R93400060	60	0.100

# 1000 V

172 - 177



## VDE Screwdriver

**R3910XXXX**  
VDE SCREWDRIVER

for slotted head screws

- > Based on DIN 5264, DIN ISO 2380
- > VDE-insulated acc. to DIN EN 60900
- > Guaranteed protection for working under voltage up to 1000V AC (alternating current) and 1500V DC (direct current)
- > Blade of high-grade chrome-molybdenum steel
- > Driven tip phosphated, corrosion-protected and low-wear
- > Dual-material handle, for easy handling
- > Moulded handle forms a firm unit with the blade
- > 5-edge handle head stops it rolling off when put down
- > Elongated hole in the handle for hanging up



Code	No.	mm	mm	mm	mm	kg
<b>3301400</b>	R39102514	2.5	0.4	75	145	0.030
<b>3301401</b>	R39100319	3.0	0.5	100	170	0.036
<b>3301402</b>	R39100419	4.0	0.8	100	200	0.071
<b>3301403</b>	R39105524	5.5	1.0	125	225	0.091

**R3920XXXX**  
VDE SCREWDRIVER

for cross-head screws PH

- > Based on DIN 7438, DIN ISO 8764
- > VDE-insulated acc. to DIN EN 60900
- > Guaranteed protection for working under voltage up to 1000V AC (alternating current) and 1500V DC (direct current)
- > Blade of high-grade chrome-molybdenum steel
- > Driven tip phosphated, corrosion-protected and low-wear
- > Dual-material handle, for easy handling
- > Moulded handle forms a firm unit with the blade
- > 5-edge handle head stops it rolling off when put down
- > Elongated hole in the handle for hanging up



Code	No.		mm	mm	kg
<b>3301404</b>	R39200115	1	80	180	0.070
<b>3301405</b>	R39200219	2	100	210	0.105

**R3930XXXX**  
VDE SCREWDRIVER

for cross-head screws PZ

- > Based on DIN 7438, DIN ISO 8764
- > VDE-insulated acc. to DIN EN 60900
- > Guaranteed protection for working under voltage up to 1000V AC (alternating current) and 1500V DC (direct current)
- > Blade of high-grade chrome-molybdenum steel
- > Driven tip phosphated, corrosion-protected and low-wear
- > Dual-material handle, for easy handling
- > Moulded handle forms a firm unit with the blade
- > 5-edge handle head stops it rolling off when put down
- > Elongated hole in the handle for hanging up



Code	No.		mm	mm	kg
<b>3301406</b>	R39300115	1	80	180	0.070
<b>3301407</b>	R39300219	2	100	210	0.104

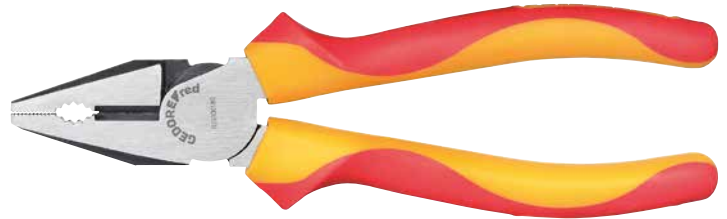
## VDE Pliers

## R2930XXXX

### VDE COMBINATION PLIERS



- > Based on DIN ISO 5748
- > Complies with VDE 0682 Part 201 and EN/IEC 60900
- > Gripping zones for flat and round stock
- > Induction-hardened long cutting edge
- > 2 dual-material handle for a hands-friendly transfer of force
- > Special tool steel, forged



Code	No.	Hard wire Ø mm	l mm	
<b>3301408</b>	R29300180	1,6	180	0.275
<b>3301409</b>	R29300200	1,8	200	0.360

## R29400180

### VDE POWER SIDE CUTTER



- > Acc. to DIN ISO 5749
- > Complies with VDE 0682 Part 201 and EN/IEC 60900
- > High cutting performance with low force
- > Slim head
- > Induction-hardened long cutting edges
- > 2 dual-material handle for a hands-friendly transfer of force
- > Special tool steel, forged



Code	No.	Piano wire Ø mm	l mm	
<b>3301410</b>	R29400180	1,6	180	0.280

## R2950 0200

### VDE TELEPHONE PLIERS



straight

- > Based on DIN ISO 5745
- > Complies with VDE 0682 Part 201 and EN/IEC 60900
- > Straight grip surfaces, lengthways-serrated
- > Induction-hardened long cutting edge
- > 2 dual-material handle for a hands-friendly transfer of force
- > Special tool steel, forged



Code	No.	Hard wire Ø mm	l mm	kg
3301411	R29500200	1,8	200	0.260

## R2951 0200

### VDE TELEPHONE PLIERS



45° angle

- > Based on DIN ISO 5745
- > Complies with VDE 0682 Part 201 and EN/IEC 60900
- > 45° angled grip surfaces, lengthways-serrated
- > Induction-hardened long cutting edge
- > 2 dual-material handle for a hands-friendly transfer of force
- > Special tool steel, forged



Code	No.	Hard wire Ø mm	l mm	kg
3301412	R29510200	1,8	200	0.260

## R2910 0010

### VDE WATER PUMP PLIERS



7 settings

- > Acc. to DIN ISO 8976 Form C
- > Complies with VDE 0682 Part 201 and EN/IEC 60900
- > Lengthways-serrated grip surfaces
- > With box joint
- > Head and joint polished
- > Chrome-vanadium steel



Code	No.	mm	inch	l mm	kg
3301413	R29100010	39	10	250	0.393

## VDE sets

**R3900 2005**

## VDE SET

5 pieces

**VDE Screwdriver:**

- > for slotted head screws: Acc. to DIN 5264, DIN ISO 2380
- > for cross-head screws PH: Acc. to DIN 7438, DIN ISO 8764
- > VDE-insulated acc. to DIN EN 60900
- > Guaranteed protection for working under voltage up to 1000V AC (alternating current) and 1500V DC (direct current)
- > Blade of high-grade chrome-molybdenum steel
- > Driven tip phosphated, corrosion-protected and low-wear
- > Dual-material handle, for easy handling
- > Moulded handle forms a firm unit with the blade
- > 5-edge handle head stops it rolling off when put down
- > Elongated hole in the handle for hanging up


**VDE Side cutter:**

- > Acc. to DIN ISO 5749
- > Complies with VDE 0682 Part 201 and EN/IEC 60900
- > Slim head
- > Induction-hardened long cutting edges
- > 2 dual-material handle for a hands-friendly transfer of force
- > Special tool steel, forged

**VDE Telephone pliers, straight pattern:**

- > Acc. to DIN ISO 5745
- > Complies with VDE 0682 Part 201 and EN/IEC 60900
- > Straight grip surfaces, lengthways-serrated
- > Induction-hardened long cutting edges
- > 2 dual-material handle for a hands-friendly transfer of force
- > Special tool steel, forged



Code	No.	Contents	pieces	
3301414	R39002005	Slotted 3, 5.5 mm Cross-slotted PH 2 VDE Side cutter 180 mm VDE Telephone pliers 200 mm, straight pattern	5	0.833

## VDE Knives

**R9322 0028**

## VDE CABLE KNIFE



- > VDE-insulated acc. to DIN EN 60900
- > Stable, straight blade
- > Straight cutting edge
- > Protective cap
- > Dual-material handle, for easy handling



Code	No.	mm	
3301415	R93220028	185	0.143



## R9322 0128

### VDE CABLE KNIFE



- > Stable, partially-insulated and replaceable blade
- > Straight cutting edge
- > Supplied with a replacement blade
- > Integrated protective cap
- > Safety handle of impact-resistant plastic



Spare blade R93970004

Code	No.	Description	↳ mm ↳	kg
3301416	R93220128	VDE-Cable knife blades-L.45mm L.185mm	185	0.095
3301417	R93970004	Cable knife blade f.R93220128 4pcs		0.100

## Voltage tester

## R3812 0000

### VOLTAGE TESTER

- > Acc. to DIN ISO 0680
- > 8 LED displays
- > DC and AC testing
- > Display 6 / 12 / 24 / 50 / 120 / 230 / 400 V AC/DC
- > Frequency range 0 - 500 Hz
- > Degree of protection IP65



Code	No.	kg
3301418	R38120000	0.120

## Lamps

## R9530 0017

### LED TORCH

- > Aluminium housing
- > Delivery **without** three AAA batteries
- > Hanger
- > 2 levels of brightness plus warning/signal function
- > 1 W LED
- > Luminous flux 55-60 lm
- > Light range 25-30 m
- > Technical specifications subject to modifications



Code	No.	↳ mm ↳	kg
3301755	R95300017	130	0.156

# AUTOMOTIVE

178 - 189



## Steering and steering geometry tools

## R11203003

### DISMANTLING AND ASSEMBLY FORK SET

5 pieces

- > For rapidly detaching track and push rod ends, steering arms and other control parts
- > Replaceable fork ends
- > Handle grip for manual hammer socket
- > Chisel adapter for compressed air chisel hammer socket
- > Special steel
- > Plastic case
- > **Note: The dismantling and assembly fork damages the rubber sleeve**



Code	No.	Contents	L	W	D	pieces	kg
3301555	R11203003	Fork end opening 17.5 mm Fork end opening 23.5 mm Fork end opening 28.5 mm Handle grip l = 200 mm Adapter l = 175 mm   Ø 10 mm	295	190	50	5	2.0

## R11201002

### UNIVERSAL BALL JOINT PULLER

- > For ejecting the ball joint journal from the steering arm, steering knuckles, anti-roll bars etc.
- > Spindle hex, width-across-flats 21 mm
- > 2-level clamping height
- > Special forged steel



Code	No.	Fork head opening	Clamping height	mm	kg
3301558	R11201002	20	50	160	1.454

## Tools for motors

## R15151000

### SET OF HOSE CLAMP PLIERS

3 pieces

- > For disconnecting flexible hose lines, Ø up to approx. 60 mm
- > Adjustable lock with stopping function
- > Temperature-resistant up to 160°
- > Made of special-purpose plastic



Code	No.	Plier lengths	For diameter	pieces	kg
3301539	R15151000	160 mm 185 mm 255 mm	Ø up to approx. 60 mm	3	0.298




## R15551000

### OIL FILTER SPANNER

12.5mm  
1/2"

- > For safe, rapid unscrewing of oil filters
- > Continuously adjustable, hand-operated
- > Drive 1/2" acc. to DIN 3120 - C 12.5, ISO 1174 and AF 19 mm
- > Holding segments stop any slipping
- > For use in tight spots



Code	No.	Model		
3301540	R15551000	65 - 120 mm Ø		0.315

## R15551001

### OIL FILTER STRAP WRENCH

12.5mm  
1/2"

- > For safe, rapid unscrewing of oil filters
- > Continuous adjustment of the filter belt
- > Drive 1/2" (12.5 mm)
- > Hand-operated



Code	No.	for diameter	l- mm -l	
3301541	R15551001	up to 152 mm	150	0.240

## R15553004


### OIL SERVICE WRENCH SET 3/8"

10mm  
3/8"

12 pieces

- > Ideal combination for fitting/removing oil draining and gear oil control screws
- > Suitable sockets for various drive types
- > Drive 3/8" acc. to DIN 3120 - C 10, ISO 1174, AF 19 or tommy bar 8 mm Ø
- > Hand-operated
- > Chrome-vanadium steel
- > In a robust plastic case



Code	No.	Contents	L	W	D	pieces	
3301544	R15553004	Socket 3/8" in-hex 8 9 3/8" (9.5 mm) 10 12 14 17 Socket 3/8" in-square 8 + 5/16" 3/8" (9.5 mm) 11 13 3/8" sliding T-handle	235	190	55	12	1.1

## R15151001

### FUEL TANK SENSOR SPANNER SET ADJUSTABLE

2 pieces

- > For loosening and tightening the plastic lock ring of the fuel sensor on fuel tanks
- > Fast gear wheel function for diameter adjustment
- > Hexagon drive, AF 24 mm
- > Hand-operated
- > Chrome-vanadium steel



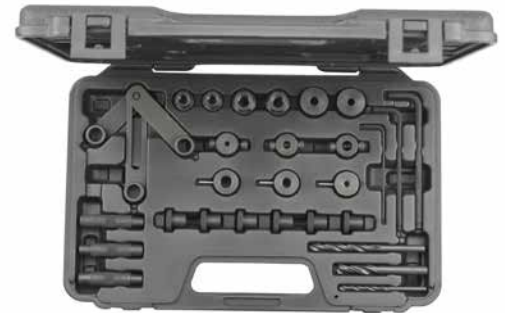
Code	No.	Contents	pieces	kg
3301585	R15151001	Fuel tank sensor spanner Ø 80 - 120 mm Fuel tank sensor spanner Ø 110 - 170 mm	2	0.800

## R15203000

### CYLINDER HEAD DRILL GAUGE SET

30 pieces

- > Considerable time saving – 2 - 4 hours – No need for cylinder head removal.
- > This adjustable universal drilling gauge set allows severed and ripped out studs - particularly at cylinder heads and exhaust flanges - to be rapidly and precisely bored without removing the cylinder head (M8 and M10 bolt threads)



Code	No.	Contents	pieces	kg
3301590	R15203000	1x drill template 3 pcs 3x centring pins conical 3x guide sleeves Ø 8 + Ø 10 2x SK collar nuts M8 + M10 1x drill sleeve with cylinder pin 4.0 6.5 8.5 mm 1x guide sleeve M8 M10 1x drill stop with cylinder head screws 4.0 6.5 8.5 mm 1x hexagon key 2 4 5 mm 1x twist drill Ø 4.0 6.5 8.5 mm	30	1.400

## Tools for gear repairing

## R17151000

### PULLER

with clamping yoke

- > Spindle with hexagon drive, AF 17 mm
- > Bow screw with hexagon drive, AF 17 mm



Code	No.	Clamping reach max.	Clamping depth	max. t	kg
3301554	R17151000	90	100	1.0	1.7



Tools for bodywork and interior trim

## R18101000 SPRAY NOZZLE NEEDLE

for adjusting and cleaning

- > Practical service tool
- > Stable, scribe-like adjusting tip with thin cleaning rod
- > Ideal for cleaning and adjusting windscreen spray nozzles and headlight spray nozzles
- > Holding clip and protective cap
- > Aluminium



Code	No.	↳ mm	
3301549	R18101000	95	0.024

## R18201000 LABEL SCRAPER

- > For quick, reliable removal of stickers, sealing strips and adhesive residues
- > Stable blade holder
- > Blades replaceable
- > Safety cap
- > Single-component handle with hole for hanging up



Code	No.	Blade width	↳ mm	
3301566	R18201000	40	165	0.100

General tools

## R9911XXXX WORK GLOVES

- > Optimum fit
- > Gripping surfaces for small and smooth parts
- > One-piece palms
- > Breathable space between the fingers
- > Adjustable wrist cuff stops the glove from slipping
- > Adhesion to smooth surfaces ensured from internal coating
- > Protection of damageable surfaces



Ill. similar

Code	No.	Size	
3301749	R99110005	M	0.080
3301750	R99110010	L	0.095
3301751	R99110015	XL	0.090
3301752	R99110020	XXL	0.090

## R1935XXXX

### STRAP WRENCH

- > Strong, non-slip fabric strap
- > Dip-insulated
- > Chrome-vanadium steel 31CrV3, chrome-plated



Code	No.	Contents	↳ mm ↲	∅ mm	⚖ kg
3301465	R19351019	Strap wrench	570	140	0.278
3301466	R19991019	Spare strap for strap wrench	490		0.080

## R19351031

### STRAP WRENCH

- > Strong, non-slip fabric strap
- > Plastic-covered handle
- > Chrome-vanadium steel 31CrV3, chrome-plated



III. similar

Code	No.	↳ mm ↲	∅ mm	⚖ kg
3301467	R19351031	810	200	0.364

## R19101000

### TELESCOPIC MAGNETIC LIFTER WITH SCRIBER

- > With clip and protective cap
- > Aluminium
- > With magnet



Code	No.	↳ mm ↲	magnet ∅	∅	⚖ kg
3301546	R19101000	150-670	7.5	300	0.046



## R19101001

### HOOK ASSORTMENT

4 pieces

- > Fitting/removing O-rings, and engine, gear, steering and hydraulic gaskets
- > For work on bodywork interior trim
- > 1-component handle



Code	No.	pieces	↳ mm	
3301548	R19101001	4	135	0.200

## R19102000

### MAGNETIC TRAY

- > Secure storage of small metal parts
- > Stainless steel
- > 2 extra strong rubber-protected magnets



Code	No.	L	W	
3301547	R19102000	240	140	0.744

## R19201000

### TIRE THREAD DEPTH GAUGE OF BRASS

- > Non-dazzle read-off
- > Tip for depth gauge (tire treads)
- > Robust hard brass type



Code	No.	↳ mm	
3301552	R19201000	100	0.060



# R19153000

## EXTRACTOR SET 3/8"



14 pieces

- > For slackening and removing bolts and damaged screws
- > Anticlockwise cutting thread with 6 cutting edges tapering together
- > Square drive acc. to DIN 3120 - C 10, ISO 1174, with ball retention groove
- > Hexagon head at the sockets as alternative drive
- > **Hand-operated**
- > Special compact design
- > Special steel
- > In a robust plastic case



Code	No.	Contents	L	W	D	pieces	kg
3301563	R19153000	Removing socket 3/8": 6.3 mm (1/4"), 8 mm (5/16") 9.5 mm (3/8"), 10 mm 11 mm (7/16"), 12 mm 12.5 mm (1/2"), 13 mm 14 mm (9/16"), 16 mm (5/8") 17 mm, 17.5 mm (11/16") 19 mm (3/4") Punch	190	110	40	14	0.730

# R68003010

## EXTRACTOR SET 1/2"



10 pieces

- > Square drive acc. to DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > For slackening and removing bolts and damaged screws
- > Anticlockwise cutting thread with 6 cutting edges tapering together
- > Hexagon head at the sockets as alternative drive
- > **Hand-operated**
- > Special compact design
- > Special steel
- > In a robust plastic case



Code	No.	Contents	L	W	D	pieces	kg
3300034	R68003010	1/2" 10 11 12 13 14 15 16 17 19 mm Punch	130	130	55	10	0.950



## R90610075

### PRY BAR

offset

- > Heavy-duty type
- > Chrome-vanadium steel



Code	No.	↳ mm ▷	📏
3301464	R90610075	610	1.340

## R19101003

### PRY BAR

- > Particularly for body and interior equipment
- > Chrome-plated blade
- > Special form
- > 1-component handle



Code	No.	↳ mm ▷	Blade width	📏
3301569	R19101003	275	26	0.175

## R19101002

### PRY BAR SET

4 pieces

**These special steel pry bars are ideal for:**

- > Pushing off jammed components
- > Positioning components
- > Holding components in position
- > Flaring press-fit bores, etc.
- > 1-component handle



Code	No.	Contents	pieces	📏
3301568	R19101002	24", 610 x 20 mm 18", 460 x 20 mm 12", 310 x 16 mm 8", 200 x 10 mm	4	1.4

Sets

# R68003013

## CROW'S FOOT SOCKET SET



13 pieces

- > Square plug-in handle with swivel square drive acc. to DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Open screw profiles for repairs on cables, for instance
- > Chrome-molybdenum steel



Code	No.	Contents	L	W	D	pieces	
3301589	R68003013	20 21 22 23 24 25 26 27 28 30 32 mm Square plug-in handle Extension 125 mm	480	195	55	13	3.000

# R6800 3075

## ASSEMBLY TOOL SET TX 1/4" + 1/2"



75 pieces

- > Coupler in acc. with DIN 3120, ISO 1174, with ball locking device
- > Square drive acc. to DIN 3120, ISO 1174, with ball retention groove
- > Socket 1/4" + 1/2", recessed TX
- > Screwdriver bit socket 1/4", TX, with pressed-in, phosphated pin
- > Bit adapter 1/4", with in-square and in-hex, for all bits and tools with a 1/4" outer hex
- > Bit adapter 1/2", with in-square and in-hex, for all bits and tools with a 10mm (3/8") outer hex
- > Bit 1/4" TX B0, for holders in acc. with DIN ISO 1173 - D 6.3
- > Bit 10mm (3/8"), TX, for holders in acc. with DIN ISO 1173 - D 10
- > Hexagon socket key set TX
- > Double-ended ring spanners TX
- > 1K screwdriver TX
- > Telescopic holder with magnet
- > Chrome-vanadium steel, matt satin chrome-plated
- > For hand-operated bolting operations
- > Plastic case in the GEDORE red Design
- > Clamp-secured tools
- > Metal hinges/lock



Code	No.	Contents	L	W	D	pieces	
3301575	R68003075	1/4" socket TX E4 E5 E6 E7 E8 E10 E11   25 mm 1/4" screwdriver bit socket TX T7 T8 T9 T10 T15 T20 T25 T27 T30 T40   37 mm 1/4" bit adapter square x hex   25 mm 1/4" bits TX with hole T7 T8 T9 T10 T15 T20 T25 T27 T30 T40   25 mm  1/2" socket TX E12 E14 E16 E18 E20 E22 E24 Bit adapter 1/2" 4kt x 10 mm 6kt   38 mm 10mm bits TX T40 T45 T50 T55 T60   30 mm 10mm bits TX T15 T20 T25 T30 T40 T45 T50 T55 T60   75 mm  Screwdriver TX T8x60 T10x80 T15x80 T20x100 T25x100 T27x125 T30x125 T40x150 mm Double-ended ring spanner TX E6xE8 E10xE12 E14xE18 E20xE24 Hexagon socket key TX T8 T10 T15 T20 T25 T27 T30 T40 T45 T50 T55 T60 Telescopic magnetic lifter with scriber 126 - 636 mm	383	272	80	75	3.5



# R58003002

## SCREWDRIVER BIT SOCKET SET

### 3/8" TX



10 pieces

- > Screwdriver bit socket 3/8", for recessed TX screws, square drive in acc. with DIN 3120 - C 10, ISO 1174, with ball retention groove
- > Long blades
- > Matt chrome-plated
- > Chrome-vanadium steel
- > Clamp-secured tools
- > Sturdy plastic case



Code	No.	Contents	L	W	D	pieces	
3301576	R58003002	Screwdriver bit socket TX T10 T15 T20 T25 T27 T30 T40 T45 T50 T55   200 mm	295	195	54	10	0.800

# R68003026

## SCREWDRIVER BIT SOCKET SET

### 1/2" XZN



26 pieces

- > Square drive acc. to DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Screwdriver bit socket 1/2", XZN, with pressed-in, phosphated pin, non-slip knurled head, brightly polished on the drive side
- > Chrome-vanadium steel, matt satin chrome-plated
- > For hand-operated bolting operations
- > Plastic case in the GEDORE red Design
- > Clamp-secured tools
- > Metal hinges/lock



Code	No.	Contents	L	W	D	pieces	
3301574	R68003026	Screwdriver bit socket XZN M5 M6 M8 M9 M10 M12 M14 M16   55 mm Screwdriver bit socket XZN M5 M6 M8 M9 M10 M12 M14   100 mm Screwdriver bit socket XZN M5 M6 M8 M9 M10 M12 M14   140 mm Screwdriver bit socket XZN M8 M10 M12 M14   200 mm	425	320	52	26	5.4

# R68003032

## SCREWDRIVER BIT SOCKET SET

### 1/2" TX



32 pieces

- > Square drive acc. to DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Screwdriver bit socket 1/2", TX, with pressed-in, phosphated pin, non-slip knurled head, brightly polished on the drive side
- > Chrome-vanadium steel, matt satin chrome-plated
- > For hand-operated bolting operations
- > Plastic case in the GEDORE red Design
- > Clamp-secured tools
- > Metal hinges/lock



Code	No.	Contents	L	W	D	pieces	
3301577	R68003032	Screwdriver bit socket TX T20 T25 T27 T30 T40 T45 T50 T55 T60 T70   55 mm Screwdriver bit socket TX T20 T25 T27 T30 T40 T45 T50 T55 T60 T70   100 mm Screwdriver bit socket TX T40 T45 T50 T55 T60 T70   140 mm Screwdriver bit socket TX T40 T45 T50 T55 T60 T70   200 mm	425	320	52	32	5.4

# R68003030

## SCREWDRIVER BIT SOCKET SET

### 1/2" IN



30 pieces

- > Square drive acc. to DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Screwdriver bit socket 1/2", hex, metric, with pressed-in, phosphated pin, non-slip knurled head, brightly polished on the drive side, design based on DIN 7422
- > Chrome-vanadium steel, matt satin chrome-plated
- > For hand-operated bolting operations
- > Plastic case in the GEDORE red Design
- > Clamp-secured tools
- > Metal hinges/lock



Code	No.	Contents	L	W	D	pieces	
3301573	R68003030	Screwdriver bit socket in-hex, 5 6 7 8 10 12 14 17 19   55 mm Screwdriver bit socket, in-hex 5 6 7 8 10 11 12 13   100 mm Screwdriver bit socket in-hex 5 6 7 8 10 12 14   140 mm Screwdriver bit socket in-hex, 5 6 7 8 10 12   200 mm	425	320	52	30	5.4



**A**

Adapter and extension set 6in2.....	086
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**B**

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Bit adapter 1/2" .....	086
Bit box 1/4" .....	135, 136
Bit holder .....	074
Bit ratchet 1/4".....	068
Bit ratchet set 1/4" with adaptor compact .....	095
Bit screwdriver 1/4" .....	073, 132
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Cartridge caulking gun .....	171
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Circlip pliers set .....	143
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Combination spanner set.....	063, 064
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Combination spanners .....	062, 063
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Cranked socket key set .....	134
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Cylinder head drill gauge set.....	181

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Half-moon ring spanner .....	060
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Impact extension 1/2".....	118	Phase tester 105-250V.....	130
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		Reducer 1/2" x 3/8".....	086
		Reducer 3/4" x 1/2".....	089

## R

Reducer 3/8" to 1/4" .....	077	Sledge hammer .....	150
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2C swivel head reversible ratchet 1/2" .....	078	Socket 3/4" .....	087
2C swivel head reversible ratchet 1/4" .....	068	Socket 3/8" .....	076
2C swivel head reversible ratchet 3/8" .....	075	Socket extension 1/2" .....	085
2C swivel-head telescopic ratchet .....	079	Socket extension 1/4" .....	072
Safety ring / 9in 1/2" .....	119	Socket extension 3/4" .....	088
Safety ring / 9in 3/4" .....	121	Socket extension 3/8" .....	077
Safety ring / pin 1" .....	123	Socket extension piece 1/2" x 3/4" .....	086
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Passionate  
about precision

**GEDORE**  
TOOLS FOR LIFE



Karen and  
Christian Dowidat



# Inspiring through quality and service

There is a name for premium-quality tools: GEDORE.

For almost 100 years, GEDORE in Remscheid has been manufacturing high-quality professional hand and special tools: tools for life. From our beginnings in 1919 as a small forge right through to today, our actions have been characterised by uncompromising quality and proximity to our customers – and this forms the basis for our success.

Our aim is for people all over the world to be able to work more safely and efficiently with our tools. This is what motivates us. Our focus is on your individual requirements. And this is what we invest our entire strength, prudence and passion in. After all, we want to inspire you in the form of our strong brands, innovative ideas, the very best products, and solutions which will really give you an edge. It goes without saying that we also want to offer you the very best service in the form of competent contact persons, short paths and tailored solutions to match your individual requirements.

GEDORE has remained exclusively within the original founding family for the past three generations. As an owner-managed company, we rely on sustainably successful growth. We think in the long term and economise soundly. In order to continue to safeguard our success for the future, we pre-occupied ourselves with the issue of company succession at an early stage.

So you can continue to count on having us as a reliable partner in the future.

GEDORE: One Brand, two strong ranges.

OCHSENKOPF: The brand for excellent forestry tools.



Brands of the GEDORE Group

## We bundle our competencies.

To ensure that you always receive the appropriate solution.

We are successful because we offer you the exact tools and services enabling you to work more efficiently and safely. In doing so, we draw on the extensive experience and diversified expertise available within our group of companies. In order to act even more effectively and strengthen the perception of our brands even further, we have

bundled our competencies, e.g. in the areas of Automotive, Special Solutions and Torque Technology.

Thanks to our brand GEDORE, with the two strong product ranges and the additional strategic brand OCHSENKOPF, we are immediately capable of delivering the right solution to any requirement.

## Brands professionals rely on.

Let yourself be inspired.



**GEDORE** is one of the world's leading brands for premium tools. GEDORE inspires in the form of high quality, innovative strength, high performance, reliability and optimum service.



GEDORE stand for the art of engineering on the highest level, and are committed to German manufacturing and quality standards. GEDORE offers high-end tools and customised solutions for professional industrial and trade use, and is positioned in the high end of the market.



GEDORE red stands for solid profession tools in the upper medium price segment, and combines the quality claim of Germany standards (DIN) with the cost benefits of global production options for an offer with a superior price/performance ratio. For semi-professionals and professionals who want tools with a higher price sensitivity that are a smart alternative to GEDORE.

**OCHSENKOPF**  
BY GEDORE

**OCHSENKOPF** is a leading international brand for excellent forestry tools. For more than 230 years, these tools have been produced in Germany's oldest axe forge. OCHSENKOPF stands for high quality and innovative products, e.g. our forestry tools featuring the ROTBAND-PLUS SYSTEM.

# ACROSS THE WORLD CLOSE AT HAND



You will find us wherever you are.

Whether in Brazil, China, South Africa or the USA: wherever you need our premium tools and service, we are close at hand.

More than 50 years ago, we already established branches abroad and now avail of extensive experience in international operations. We have six manufacturing facilities in Germany as well as sites in Brazil, England, Austria and South Africa. We distribute our hand and special tools in more than 70 countries via our own branches along with an international network of dealers. So you benefit from short paths, fast delivery times and extensive local services.

We are your strong partner. Wherever you need us.

# 2500

EMPLOYEES



16000

PRODUCTS

70

COUNTRIES

# High quality down to the last detail

Exercising the greatest care, well-conceived ergonomics and the very best materials, we manufacture tools for life.

Anyone who has ever used our tools is impressed by their superior quality. After all, they fulfil maximum demands on precision, function, material, finish, ergonomics, durability and industrial safety. Even under rough conditions and in the case of major challenges.

With a total of 16,000 tools, we offer the widest range of any European tool manufacturer. Our extensive range of premium tools includes pullers, screwdrivers, torque tools, workshop equipment and pliers. But we also produce tailored special solutions for your individual requirements. And to enable you to plan better and invest more reliably, we attach great importance to sustainable range design.

We pay attention to even the smallest detail in every single tool. We invest a great deal of work in intelligent designs offering you maximum benefits. And we use first-class materials which are processed carefully by our employees using state-of-the-art production methods. Many of our tools are drop-forged making them particularly durable, strong and precise.

Our manufacturing and quality processes are subject to numerous tests and audits. We have introduced a management system which complies with the requirements of the DIN EN ISO 9001:2015 standard. The same also applies to our DAkkS-certified calibration laboratory. We not only meet quality standards – wherever possible, we go one step further which is why many of our premium tools exceed DIN/ISO requirements.

We always do our very best for you.  
You can rely on that.



GEDORE DREMASTER®  
Award-winning Torque Wrench











# Competent at the heart of where it's happening

Tried and tested for many years -  
and ready for the future.

Whether apprentices or engineers: professionals from industry and trade rely on our tools for life – often for many generations – and for good reason, too. After all, our premium tools have proven their value for many years wherever maximum quality, precision, reliability and intelligent solutions are required.

And in order to keep justifying this trust, we keep developing our competencies and ranges further. Whether new materials or process techniques, increasing demands on ergonomics and mobility, or revolutionary developments such as Industry 4.0 – we are eminently familiar with the latest trends and technologies. And this is the basis on which we manufacture our tool solutions enabling you to be perfectly equipped for future challenges. For example, intelligent torque wrenches with multiple measurement and analysis functions as well as efficient software for optimum data management support.

For our core sectors of industry, agricultural technology, automotive and regenerative energies, we also manufacture particularly robust, high-precision tools which work reliably and safely even under the toughest conditions, as well as special tools for tight working environments. Whether pulling, storing, bending, impacting or screwing: we always have the right solution for you.

We aren't satisfied until you are. Challenge us.

# Excellent Always more innovative

We want to get better and better. After all,  
this is the only way to stay on top.

What do the Alu-DREMOMETER, the 1B combination spanner, the impact sockets with ImpactFix lock and the LDB-10 railway track wrench all have in common?

Thanks to their function and precision, all of these tools have set standards in the tool industry. They are inspiring because they make complex tasks easier and safer – and they are made by GEDORE.

We have written tool history with such products. Because we have created real innovations and not only complied with the requests by numerous users in industry and trade – but even exceeded them. And we will continue to do so. Which is why we are constantly investing in research and development.



We are passionate about driving solutions for technology trends such as mobility, individual tools and Industry 4.0 – to enable you to handle your tasks even more efficiently, productively and safely.

We are regularly rewarded for our innovations, e.g. we have received the EISEN Award and the Red Dot Award for outstanding product design several times

as well as the Competence Prize for Innovation and Quality from the state of Baden-Württemberg.

We are proud of these distinctions. And they motivate us to go that extra mile.

# Perfect fit for your individual requirements

We genuinely support our customers  
and offer you excellent service.

With our support, your tools are ready for use at all times. Competent maintenance enables us to improve safety and durability. And when necessary, we take care of fast and professional repairs. You can rely on our accredited laboratories when it comes to calibrating your torque tools. In the form of certified tests, we can guarantee that your torque tools, torque wrenches, planet gear wrenches and torque multipliers always work perfectly and safely.

But we also offer you many other services over and beyond tool services: e.g. attractive terms and conditions for financing your tool pool or comprehensive training to ensure your personnel is always up to date.

We would be delighted to advise you at your premises. This enables us to discover your specific requirements and offer you tailored solutions – from individual sizes, colours and coatings to special customised designs. Whatever tool solution you require – we have it.

How can we be of service?





**GEDORE**   
TOOLS FOR LIFE



# CERTIFICATE

The AGQS Qualitäts- und Umweltmanagement GmbH hereby certifies that the company



**GEDORE** Gruppe

for the scope

development, manufacture, sale and logistical service of hand tools, workshop furniture, torque tools and torque tester including accessories and services, high torque wrenches, workshop furniture, specialist tools for vehicle repair as well as the production of forging parts according to customer requirements

has implemented and maintains a management system. An audit, documented in a report, has verified that this management system fulfils the requirements of the following standard:

**DIN EN ISO 9001:2015**

A handwritten signature in black ink, appearing to be 'J. G. G.', written over a horizontal line.

Remscheid, 2018-05-11