

AUTOMOTIVE TOOLS / QUALITY MADE BY GEDORE

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GEDORE Automotive GmbH

GEDORE Automotive GmbH,
part of the **GEDORE** Group.

We are a medium-sized, internationally operating company, based in Donaueschingen/Germany, and specialise in the development and manufacture of innovative, high-quality specialist tools for the Automotive Industry and Aftermarket.

The **GEDORE Automotive GmbH** was founded under the name **KLANN Spezial-Werkzeugbau GmbH** in Donaueschingen in 1978.

We have been part of the **GEDORE** Group since 2002. Since 1 January 2016, in the course of the brand integration into the **GEDORE** Group, **KLANN Spezial-Werkzeugbau GmbH** has become **GEDORE Automotive GmbH**.

With around 100 patents and utility models at home and abroad, **GEDORE Automotive GmbH** is one of the world's leading manufacturers of specialist automotive tools.

No matter whether it is about vehicle assembly, maintenance or repairs...
specialist tools have become indispensable in today's assembly lines and workshops!

When it comes to facilitating and optimising professional vehicle repairs, **GEDORE Automotive's** specialist tools are the tools of choice – worldwide. Our primary objective is to provide solutions that make repairs safer, easier and also faster, and as a result, cheaper. To achieve this goal, we continuously design and develop innovative specialist tools for all types of vehicles in our fully equipped experimental workshop.

We are well aware that an immediate response to market requirements and customer needs is of vital importance. 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.

Good vocational education and training provide the key to a successful career!

For more than 20 years, we have been training young people at our location in Donaueschingen – thus providing them with a solid foundation for a successful start into their professional life.

At GEDORE Automotive GmbH, we are committed to manufacturing specialist tools for life.



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MODULO Workshop Trolley/Workbench



KL-4999-120 A MODULO Workshop Trolley

MODULO Workshop Trolley/Workbench, 4 Drawers

The sturdy MODULO **KL-4999-120 A** workshop trolley/workbench (GEDORE 1507 XL) features a large, solid (30mm thick) beech multiplex worktop and four full-width drawers. Designed as a modular concept, it offers various options for different applications.

For example, combined with the **KL-5501 B** stationary spring compressor and the wheel bearing/silentbloc tools/modules of our **KL-0039-Series**, it will provide you with a professional and mobile workplace for proper and cost-effective chassis and axle repairs/maintenance work in situ on or next to the vehicle.

KL-4999-121 A MODULO Workshop Trolley

MODULO Workshop Trolley/Workbench, 5 Drawers

The sturdy MODULO **KL-4999-121 A** workshop trolley/workbench (GEDORE 1507 XL) features a large, solid (30mm thick) beech multiplex worktop and five full-width drawers. Designed as a modular concept, it offers various options for different applications.

For example, equipped with our universal glow plug tool set, injector nozzle puller set, counter-hold tool kit and drive tool kit, it will provide you with a highly functional and mobile workplace for professional and cost-effective maintenance work and repairs to internal combustion engines in situ on the vehicle.





1. Springs and Shock Absorbers

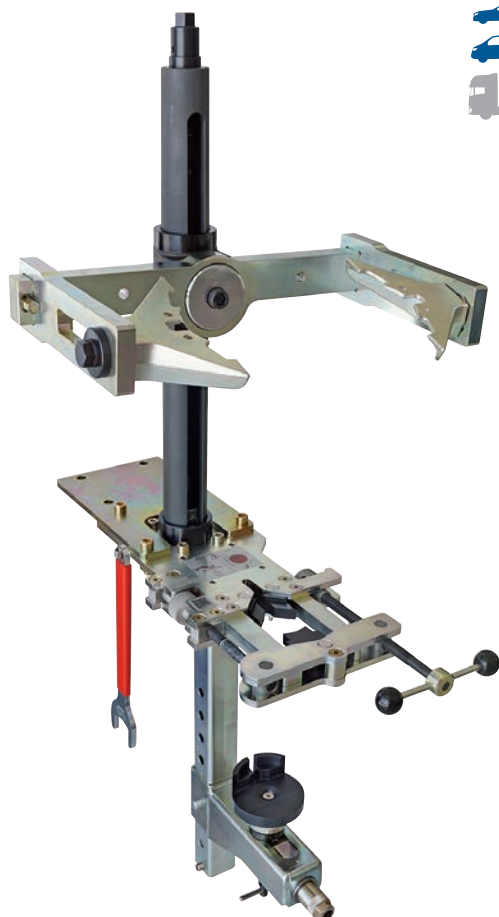




KL-5501 B

(Code 3230503) (Patented)

Spring Compressor, Stationary



Universally applicable to virtually all MacPherson suspension strut and shock absorber designs with coil springs, such as right-hand-coiled springs, left-hand-coiled springs, eccentric springs/spring plates, conical springs, springs with a small number of windings, long-pitch springs or variable-pitch springs.

Also suitable for use on shock absorber designs with rebound buffer springs, shock absorbers on which the hardness is electronically adjustable as well as magnetorheological shock absorbers.

Alternative tool: VAS 6908/1

The stationary spring compressor is the ultimate solution when it comes to compressing the MacPherson-type struts/shock absorbers that are commonly used in today's vehicle suspension systems.

Special features, such as the variable spring plate-clamping device, the adjustable support column assembly, and the strut-holding device with one-hand operation, make the **KL-5501 B** a very versatile spring compressor that satisfies the highest Health and Safety Standards. Thanks to a special technique, the spring is compressed via the upper spring plate against the lower spring plate, hence spring shape and spring pitch are no longer an issue. Comes with a mounting plate that allows the spring compressor to be easily fixed to an appropriate workshop trolley or workbench.

Recommended Accessory:

KL-5501-40 Hand Crank,

KL-0056-11 E Shock Absorber Piston Rod Tool Set,

1993 U-20 Reversible Ratchet 1/2"

Advantages:

Universal application!

Thanks to the wide range of adjustment possibilities, the spring compressor is applicable to virtually any MacPherson suspension strut and shock absorber design commonly used in today's vehicle suspension systems.

Maximum safety!

The sophisticated and solid overall design of the stationary spring compressor as well as its simple and user-friendly operation provide a maximum level of safety.

Applicable to many different spring designs!

With this spring compressor, the design of the spring - no matter whether it is about right-hand-coiled springs, left-hand-coiled springs, conical springs, eccentric springs, springs with a small number of windings, long-pitch springs or variable-pitch springs - is no longer an issue. This is thanks to the special compression technique which allows the spring to be compressed via the upper spring plate against the lower spring plate.

Applicable to shock absorbers with rebound buffer spring!

Thanks to the large opening width of 570mm and a compression force of up to max. 15,000N, even shock absorbers with rebound buffer springs that require a high pre-load on the spring are not an issue.

No damage to the strut/shock tube!

The clamping bars of the strut-holding device can properly and quickly be aligned and adjusted to the respective strut tube diameter by means of a knurled nut. Plastic clamping jaws prevent damage to the strut tube.

Allows for one-person operation!

Thanks to the strut-holding device with quick-action clamping and one-hand-operation mechanism, the entire process can be carried out by just one person.

Mobile use - in conjunction with a workshop trolley/workbench!

The stationary spring compressor comes with a mounting plate that enables it to be fixed to an appropriate workshop trolley/workbench.

To attach the spring compressor to the **MODULO KL-4999-120 A**, **KL-4999-121 A** workshop trolley/workbench or to a vertical wall, the special **MODULO** mounting kit **KL-5501-211** (available separately as accessory) is needed. This allows the user to carry out repairs more quickly, more efficiently and more flexibly, also next to the vehicle.

Technical Data:

Drive:	24mm waf
Breaking point:	60,000N
Max. load capacity:	15,000N
Weight without trolley:	46kg
Max. span (opening width):	570mm
For spring plate Ø:	125-220mm



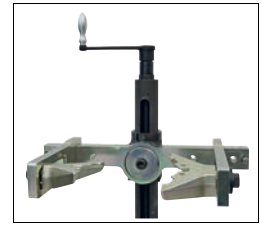
KL-5501-40 [Code 3402444]

Hand Crank, size (waf) 24mm

The hand crank enables an amazingly simple and fast drive of the stationary spring compressor - **KL-5501** or **KL-5501 B** when tensioning and releasing a McPherson strut. For this purpose, the crank handle is simply attached to the spring compressor via the 24mm drive hexagon.

Technical Data:

Drive:	Hexagonal / 24mm
Length:	195mm



KL-5501-211 [Code 3259439]

MODULO and Wall Bracket, short

Suitable for KL-5501 B (NOT for KL-5501).

The mounting kit allows the **KL-5501 B** spring compressor to be safely and securely fixed to the MODULO workshop trolley/workbench **KL-4999-120 A** or **KL-4999-121 A** (GEDORE 1507 XL) as well as to an appropriate vertical wall.

Also suitable for space-saving mounting on a vertical wall. However, due to the proximity to the wall, the use of a hand ratchet is only possible up to a return angle of approx. 180°. Using the hand crank - **KL-5501-40** is excluded. As an alternative, use the long wall bracket - **KL-5501-212**.

Technical Data:

Distance to the wall:	105mm (middle drive)
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6 pcs.



KL-5501-212 [Code 3402169]

Wall Bracket, long

Suitable for KL-5501 B (NOT for KL-5501).

The long wall bracket enables stable mounting of the stationary spring compressor - **KL-5501 B** on a vertical wall. Here, the using the hand ratchet as well as the hand crank - **KL-5501-40** is possible without problems.

Recommended Accessories:

KL-5501-40 Hand crank

Technical Data:

Distance to the wall:	245mm (middle drive)
-----------------------	----------------------

4 pcs.



KL-5501-191 [Code 3244032]

Conversion Kit, Strut-Holding Clamp, long

The **KL-5501-191** conversion kit upgrades the stationary spring compressor **KL-5501** by making it also suitable for use on complex suspension strut systems where the damper tube has a very small contact surface.

Note:

By using **KL-5501-191** and **KL-5501-192**, **KL-5501** can be converted to **KL-5501 B**.

10 pcs.



KL-5501-192 [Code 3244059]

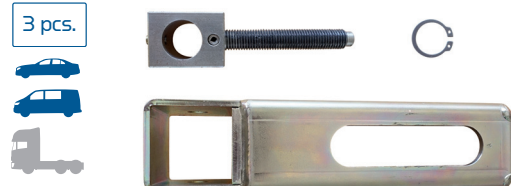
Conversion Kit for Supporting Column Assembly

The conversion kit **KL-5501-192** upgrades the **KL-5501** stationary spring compressor by extending the adjustment range of the supporting column assembly.

Note:

By using **KL-5501-191** and **KL-5501-192**, **KL-5501** can be converted to **KL-5501 B**.

3 pcs.





9 pcs.



KL-9002 SP

(Code 2480115)

Spring Compressor

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.

Alternative tools: W 203 589 01 31 00, 31 3 340, VAS 6046

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 with protective inserts in size 1 and 2 designed for spring diameters of from 85 (inside) - 170 (outside) mm.

Additional jaws for spring Ø of 60 (inside) - 205 (outside) mm 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 spring compressor

- which, due to a **special latching system**, allows the span (distance between jaws) to be adjusted from a minimum distance of **40mm** to a maximum distance 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. on 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 decompression process once the maximum end of travel has been reached - thus eliminating the risk of damage to the spring compressor;
- which enables the **plastic protective inserts** protecting the coating of the spring to be screw-connected to the jaws. This is very important to prevent spring failure/breakage caused by notches and corrosion;
- which is suitable for almost any MacPherson suspension/damper strut systems, as well as for many other wishbone suspensions - thanks to a wide range of jaws available.

Thanks to the interaction of special high-precision components and the use of wear-resistant nitrided steel, the compressor 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.

Recommended Accessory:

KL-4999-1322 Foam Insert, **KL-4999-1395** Plastic Storage Case (without Foam Insert)

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.
- Comes with plastic protective inserts.

Note:

KL-9002 Spring Compressor

Like the **KL-9002 SP**, however, supplied without plastic protective inserts



Technical Data:

Cylinder 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 (waf)	24mm
	Weight of compressor base body	6.9kg
	Weight of compressor base body with jaws size 1 and 2	13.4kg

Note: Additional jaws for springs with a Ø of from 60 (inside) to 205 (outside) mm are available as accessories.

Scope of Delivery: KL-9002 SP 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



4 pcs.



KL-9001-13 SP

(Code 2480085)

Pair of Jaws, Size 3

Universal application.

For example MAN TGE, TGL (Transporter).

Front axle: Mercedes V-Klasse (W447); VW-Crafter; Chrysler PT Cruiser; etc.

Rear axle: Mercedes V-Klasse (W447); etc.

Alternative tool: 99409H

Pair of special jaws with closed attachment ring.

The anti-slip protective inserts prevent the spring from unwinding itself out of the spring compressor and also avoid damage to the sensitive coating of the spring.

Technical Data:

For spring Ø from:	125mm (inside)
For spring Ø up to:	205mm (outside)

Necessary Accessories:

KL-9002-100 Compressor Base Body (included in **KL-9002 SP**)

KL-0055-60

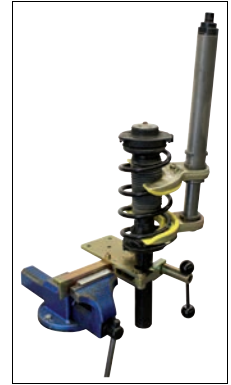
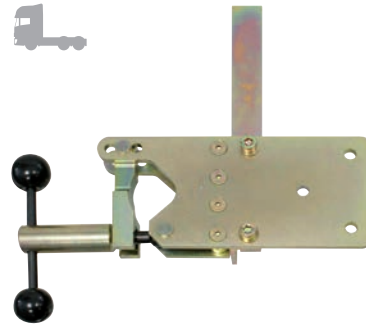
(Code 2380471)

Holding Fixture for Suspension Struts

Suitable for MacPherson suspension struts, shock absorbers and steering gears.

Alternative tool: KM-6066, VAS 1752/20

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. Suspension struts should NEVER be directly clamped in a vice for servicing and assembly work! (Risk of deformation).



KL-4999-120 A

(Code 3254313)

MODULO Workshop Trolley/Workbench, 4 Drawers

Designed as a modular concept, the sturdy **MODULO KL-4999-120 A** workshop trolley/workbench offers various options for different applications.

For example, combined with the stationary spring compressor **KL-5501 B** and the wheel bearing/silentbloc tools of the **KL-0039-Series**, it provides you with a professional and mobile workplace for accurate and quick chassis and axle repairs/maintenance work in situ on or next to the vehicle.

The workbench, with its large and 30mm thick beech multiplex worktop, offers the ideal work surface. Four full-width drawers provide for a lot of storage space. The lateral push handle and the two smooth-running, ball-bearing-mounted swivel castors (125mm) with total brake, ensure the easy and mobile use of the trolley/workbench.

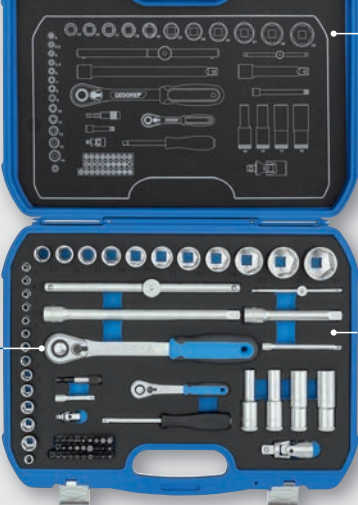
The 4 drawers feature a soft-close mechanism and a central lock designed to prevent any unintentional opening. Each of the drawers has a load capacity of up to 70kg and is fully extendable to allow for easy access to the tools. The sophisticated "one-drawer-at-a-time" interlock mechanism prevents the simultaneous opening of several drawers and, as a result, the trolley from tilting/tipping over.

Technical Data:

Dimensions:	W 1,200 x H 985 x D 635mm
Worktop:	W 1,200 x H 30 x D 635mm
Drawer (1x):	W 998 x H 90 x D 474mm
Drawer (2x):	W 998 x H 145 x D 474mm
Drawer (1x):	W 998 x H 195 x D 474mm
Max. load per drawer:	70kg
Steering castor with brake (2x):	Ø 125mm
Fixed castor (2x):	Ø 200mm
Max. load (total):	700kg
Max. load (movable):	500kg
Weight:	125kg





- 
- 1 **High quality insole**
 - ▶ The new GEDORE plastic ratchet case is for industry, the automotive field, do-it-yourselfers & hobby mechanics. It is fitted out with a black/blue plastic Check-Tool insert for pointing out any missing tools.
 - 2 **Ergonomics**
 - ▶ The droplet-like head of the reversible ratchets make this set ideal for the tightest of bolting positions.
 - 3 **2-Components**
 - ▶ The reversible ratchets feature a dual material handle, lever change and press-button release for easy, rapid and safe working.
 - 4 **Basic configuration**
 - ▶ 1/4" and 1/2" socket wrench hexagon set with all metric sizes from 4-32 mm and bit set for the most popular drives, such as slot, PH, PZ, TX, XZN & in-hex.

GEDORE ESSENTIALS

SOCKET WRENCH SET 19 BMC 20

The new GEDORE 1/4"+1/2" **socket wrench set** ideal for industry, the automotive field, do-it-yourselfers & hobby mechanics.

The **droplet-like head** of the reversible ratchets make this set ideal for the tightest of bolting positions.

The reversible ratchets feature a **dual material handle, lever change and press-button release** for easy, rapid and safe working.

A multitude of applications possible thanks to the diversity of the 1/4" and 1/2" socket wrench hexagon set with all metric sizes from 4-32 mm and bit set for the **most popular drives**, such as slot, PH, PZ, TX, XZN & in-hex.



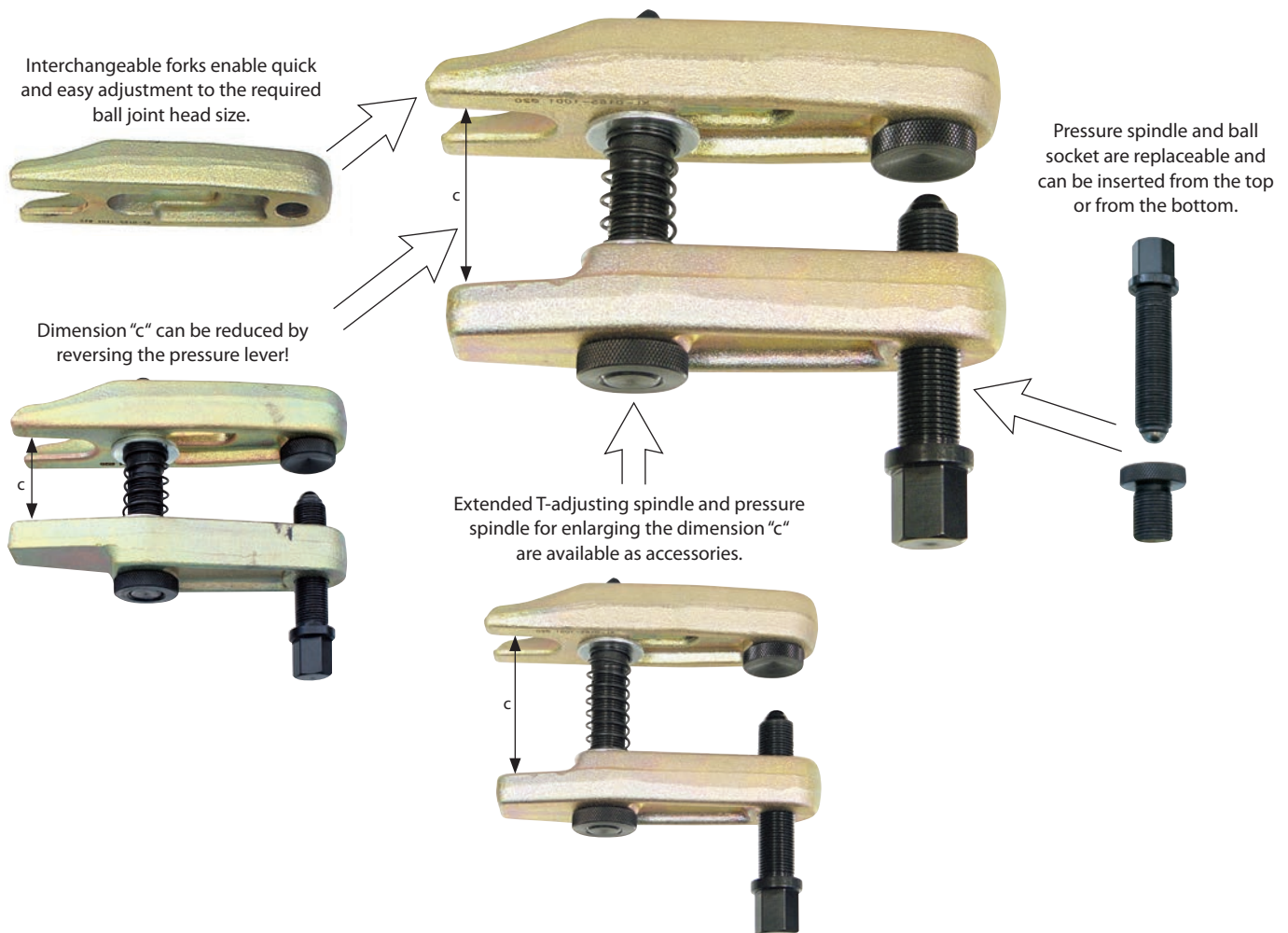


2. Axle Repair Tools (Steering, Support Joints, Wheel Bearings, etc.)



KL-0165-Series

Ball Joint Extractors (Patented)



Advantages:

- ☑ 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.
- ☑ Forged pressure lever and fork.
- ☑ Infinitely adjustable to the required pivot pin height.
- ☑ Pressure spindle driven by a 19mm hexagon and provided with a safety shoulder to prevent spanner from slipping.
- ☑ A wide range of forks for the most different kinds of ball joint connections is available as accessories.

2.1 Steering and Steering Geometry

KL-0165-1 (Code 1753592) Ball Joint Extractor Set, Size 1 and 2

Universally applicable to HGV and light commercial vehicles/vans like VW-Audi, Seat, Škoda, Mercedes, BMW, Renault, Peugeot, Fiat, Opel, Ford, Porsche etc.

Alternative tool: W 124 589 02 33 00, W 201 589 01 33 00, W 201 589 14 33 00, W 202 589 02 33 00, W 124 589 03 33 00, W 140 589 00 63 00, 31 3 240

An indispensable tool set for the quick and easy separation of ball joint connections in axle/suspension and steering systems.

Advantage:

- Variable through separator forks
- High stability
- Ideal release pressure point and adjustable tilting adjustment

Recommended Accessory: 1993 U-20 Reversible Ratchet 1/2"

Technical Data:

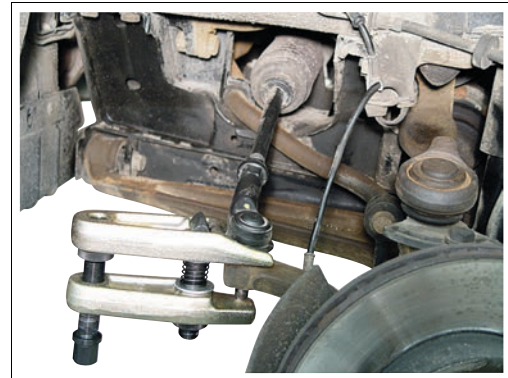
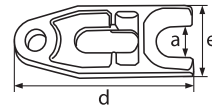
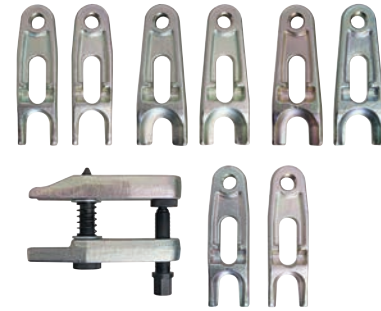
Weight:	10.5kg
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Scope of Delivery:

KL-0165-1 Ball Joint Extractor Set

Part No.	Description	Qty
KL-0165-100	Base Tool without Fork	1
KL-0165-1001	Fork - a=20mm - e=50mm - d=165mm (results KL-0165-10)	1
KL-0165-1101	Fork - a=22mm - e=50mm - d=165mm (results KL-0165-11)	1
KL-0165-1201	Fork - a=24mm - e=50mm - d=165mm (results KL-0165-12)	1
KL-0165-1301	Fork - a=27mm - e=50mm - d=165mm (results KL-0165-13)	1
KL-0165-1401	Fork - a=30mm - e=50mm - d=165mm (results KL-0165-14)	1
KL-0165-2001	Fork - a=22mm - e=60mm - d=165mm (results KL-0165-20)	1
KL-0165-2101	Fork - a=24mm - e=60mm - d=165mm (results KL-0165-21)	1
KL-0165-2201	Fork - a=26mm - e=60mm - d=165mm (results KL-0165-22)	1
KL-0165-2301	Fork - a=30mm - e=60mm - d=165mm (results KL-0165-23)	1
KL-0165-1090	Plastic Storage Case	1

10 pcs.



KL-0165-3 KA (Code 2801817) Ball Joint Extractor Set (with 6 Forks)

Universally applicable to HGV and light commercial vehicles/vans like MAN, Mercedes, VW, Ford, Scania, Volvo, Landini, John Deere etc.

An indispensable tool set for the quick and easy separation of ball joint connections in axle/suspension and steering systems.

Advantage:

- Variable through separator forks
- High stability
- Ideal release pressure point and adjustable tilting adjustment

Recommended Accessory:

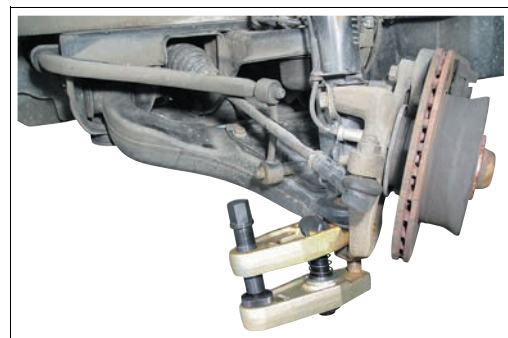
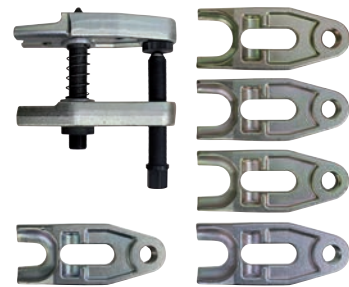
1993 U-20 Reversible Ratchet 1/2"

Scope of Delivery:

KL-0165-3 KA Ball Joint Extractor Set (with 6 Forks)

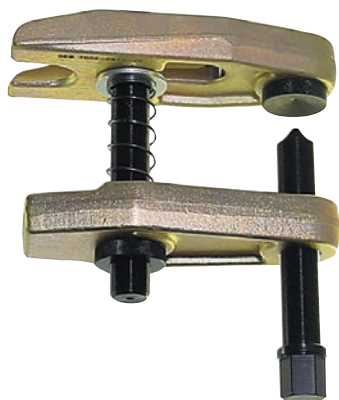
Part No.	Description	Qty
KL-0165-300	Base Tool without Fork	1
KL-0165-3001	Fork Size 3 - a=30mm - e=80mm - d=200mm (results KL-0165-30)	1
KL-0165-3101	Fork Size 3 - a=34mm - e=80mm - d=200mm (results KL-0165-31)	1
KL-0165-3201	Fork Size 3 - a=40mm - e=80mm - d=200mm (results KL-0165-32)	1
KL-0165-3301	Fork Size 3 - a=42mm - e=80mm - d=200mm (results KL-0165-33)	1
KL-0165-3401	Fork Size 3 - a=47mm - e=80mm - d=200mm (results KL-0165-34)	1
KL-0165-3501	Fork Size 3 - a=33mm - e=80mm - d=200mm (results KL-0165-35)	1
KL-0165-3090 A	Plastic Storage Case	1

7 pcs.



2. Axle Repair Tools

2.1 Steering and Steering Geometry



2 pcs.



KL-0165-35 (Code 1753614) Ball Joint Extractor

Suitable for use on 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)

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-0165-36 (Code 2822997) Ball Joint Extractor

Suitable for the thrust rod on the reversing lever at the front axle of MAN Buses A21. (Fork opening a=40mm)

Scope of Delivery: KL-0165-36 Ball Joint Extractor, Size 3

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-.. Ball Joint Extractor, Size 3

The **KL-0165-30** ball joint extractor is the ideal tool for separating ball joint connections in axle/suspension and steering systems.

Recommended Accessory: 1993 U-20 Reversible Ratchet 1/2"

KL-0165-30 (Code 2401959) Ball Joint Extractor

Suitable for use on MAN, Landini tractors, etc. (fork opening a=30mm)

Scope of Delivery: KL-0165-30 Ball Joint Extractor, Size 3

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	1

KL-0165-31 (Code 2402076) Ball Joint Extractor

Suitable for use on MAN, Mercedes, Ford, etc.; for example Mercedes Actros thrust rods.

(Fork opening a=34mm)

Scope of Delivery: KL-0165-31 Ball Joint Extractor, Size 3

Part No.	Description	Qty
KL-0165-300	Base Tool without Fork (Spindle M24x1.5)	1
KL-0165-3101	Fork - a=34mm - e=80mm - d=200mm	1

KL-0165-32 (Code 1810960) Ball Joint Extractor

Suitable for use on Mercedes, MAN, Scania, Volvo, etc.; for example Mercedes Actros drop arm.

(Fork opening a=40mm)

Scope of Delivery: KL-0165-31 Ball Joint Extractor, Size 3

Part No.	Description	Qty
KL-0165-300	Base Tool without Fork (Spindle M24x1.5)	1
KL-0165-3201	Fork - a=40mm - e=80mm - d=200mm	1

KL-0165-33 (Code 1878115) Ball Joint Extractor

Suitable for use on Mercedes, MAN, Scania, Volvo, etc. and John Deere tractors. (Fork opening a=42mm)

Scope of Delivery: KL-0165-33 Ball Joint Extractor, Size 3

Part No.	Description	Qty
KL-0165-300	Base Tool without Fork (Spindle M24x1.5)	1
KL-0165-3301	Fork - a=42mm - e=80mm - d=200mm	1

KL-0165-34 (Code 1796208) Ball Joint Extractor

Suitable for use on Mercedes buses, etc. (fork opening a=47mm)

Scope of Delivery: KL-0165-34 Ball Joint Extractor, Size 3

Part No.	Description	Qty
KL-0165-300	Base Tool without Fork (Spindle M24x1.5)	1
KL-0165-3401	Fork - a=47mm - e=80mm - d=200mm	1

2.1 Steering and Steering Geometry

KL-0165-37 (Code 3036715)

Ball Joint Extractor, Setra

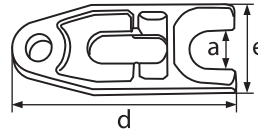
Suitable for use on ball joints found at steering column control stalks on Mercedes-Benz/Setra buses such as MB Travego RHD L (O 580) and Setra S 417 UL.

The KL-0165-37 ball joint extractor is the ideal tool for separating ball joint connections in axle/suspension and steering systems.

Recommended Accessory: 1993 U-20 Reversible Ratchet 1/2"

Scope of Delivery: KL-0165-37 Ball Joint Extractor, Setra

Part No.	Description	Qty
KL-0165-3005	Ball Socket	1
KL-0165-3009	Knurled Nut, M24x1.5	1
KL-0165-3007	Spring	1
KL-0165-3008	Plain Washer	2
KL-0165-3014	Pressure Spindle, M24x1.5x135mm	1
KL-0165-3301	Fork, 42mm	1
KL-0165-3701	Pressure Lever, Setra	1
KL-0165-3702	Adjusting Spindle, M24x1.5x129mm	1



Technical Data:

a:	42mm
e:	80mm
d:	200mm

KL-0169-60 (Code 3230295)

Toe Measuring Gauge

Universally applicable to passenger cars, HGVs, LCVs etc.

Allows for quick and simple toe measurement via the inner rim flange or wheel. Telescopic design allows measurement range to be easily adjusted of from 950 to max 1,500mm (expandable to max 2,150mm). Easy-to-read graduated toe scale of from 0 to 40mm.

Recommended Accessory: KL-0169-61 Extension

Technical Data:

Toe scale:	0-40mm
Measurement range:	950-1,500mm
Measurement range with KL-0169-61:	max. 2,150mm

Scope of Delivery: KL-0169-60 Toe Measuring Gauge

Part No.	Description	Qty
KL-0169-601	Inner Tube with Adjustment Unit	1
KL-0169-602	Outer tube with Setting Unit	1
KL-0169-603	Thrust Piece, round	2



KL-0169-61 (Code 3230317)

Extension

For extending the measurement range of the KL-0169-60 toe measuring gauge to 2,150mm.

Necessary Accessories: KL-0169-60 Toe Measuring Gauge



KL-0167-30 (Code 3292754) (German Utility Model)

Eccentric Spanner to Remove / Install the Inner Track Rod Joint

Universally suitable for cars and vans, e.g. Audi, BMW, Citroen, Dacia, Ford, Hyundai, Kia, Mazda, Mercedes, Mini, Nissan, Opel/Vauxhall, Peugeot, Porsche, Renault, Seat, Skoda, Toyota, Volvo, VW and many more.

For a quick removal and installation of internal track rod joint or axial joints with a diameter of 30 to 43mm, directly on the vehicle without removing the steering gear.

The unique open design makes it easy to fit the spanner directly onto the track rod without first having to dismantle the outer, usually seized part of the track rod. The outer profile on the track rod or axial joint (e.g. 2-sided, 4-sided, 6-sided or round) is irrelevant. The track rod eccentric spanner is driven by a 1/2" square socket.

Technical Data:

Drive:	1/2"
For Ø:	30-43mm

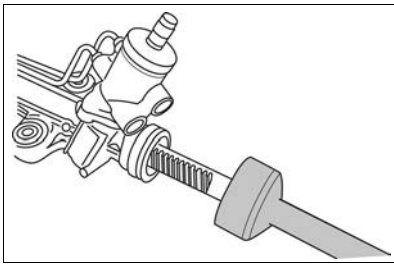


2. Axle Repair Tools

2.1 Steering and Steering Geometry



2 pcs.



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-0167-15 A

[Code 2877287]

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.

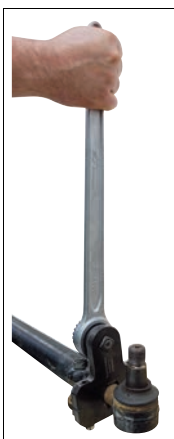
Recommended Accessory: 1993 U-20 Reversible ratchet 1/2"

Advantages:

- Universal tool, thanks to its very small outer diameter and large working range from 30-43mm.
- High-grade metal rollers and steel cage ensure long service life of the tool.
- Exchangeable roller inserts.

Technical Data:

Drive:	1/2"
Length:	480mm



4 pcs.



KL-0169-81

[Code 3245810]

Track Rod Socket, 34mm waf

Applicable to track rods, drag links respectively, with a 34mm (waf) hex nut on the adjusting thread as found on MAN, Mercedes, DAF, Evobus, Iveco, Neoplan, Renault, Scania, Solaris and Volvo HGVs/commercial vehicles. Particularly useful tool for 4x4 vehicles with offset track rods, drag links respectively.

Designed to facilitate the loosening and adjustment of stiff track rods and drag links respectively. Necessary when adjusting the track rod or changing the track rod end for example.

Its unique two-part design allows the tool to embrace the adjustment hex nut of the track rod/drag link completely. This ensures that the applied force is distributed evenly across the entire hex nut. As a result, the nut is securely held and the risk of the tool slipping/spinning is eliminated.

Thanks to this tool, the expensive replacement of the complete track rod and drag link respectively, is no longer necessary.

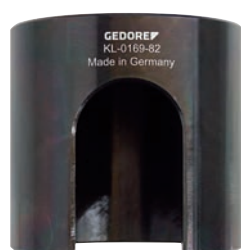
Recommended Accessory: 3293 U-2 Reversible Ratchet 3/4"

Technical Data:

Size (waf):	34mm
Drive:	3/4"

Spare Parts:

Part No.	Description	Qty
KL-0169-8101	Socket, Half 2	1
KL-0169-8102	Socket, Half 1 with 3/4" square drive	1
KL-0282-5106	Cheese Head Screw, M8x45mm	2



KL-0169-82

[Code 3267806]

Track Rod End Removal Socket

Universally applicable to track rod ends found in HGVs/LGVs, buses and tractors. For example: MAN, Mercedes-Benz, Neoplan, Renault Trucks, Iveco, Scania, Volvo, DAF, Deutz-Fahr, IHC, Case IH, JCB, Evobus and Kässbohrer.

For the quick and professional removal and installation of track rod ends. Required to loosen and release the track rod end from the track rod properly when adjusting/changing the track rod end for example.

The heavy-duty socket slips over the complete track rod end, thus enabling a great amount of force to be applied with the aid of a 3/4" ratchet. Thus, even stiff or corroded track rod ends are no longer an issue. Thanks to this tool, the expensive replacement of the complete track rod / drag link can be avoided.

Technical Data:

Drive:	3/4"
Height (internal):	70mm
Diameter (internal):	80mm
U-shaped slot:	65 x 40mm
Height (external):	90mm
Diameter (external):	95mm

THE TORQUE MULTIPLIER

SERIES LKV, 100 - 2800 Nm

Lightweight, high-performance aluminium housing is 30 % lighter than a steel one



Fixed reaction arm in straight or cranked version



Output square as overload protection for gear unit protection



Supplied with individual GEDORE factory calibration certificate



Series LKV-20L/ 28L



Scope of delivery

- › Device
- › Reaction arm cranked or straight (screwed to the device)
- › Tool box
- › Operating Instructions
- › Factory calibration certificate
- › Torque calculator



Replacement parts

- › Replacement square drive for LKV-20
- › Replacement square drive for LKV-28



The GEDORE Automotive Silenbloc Tool KL-0039-Series

The big advantages of the unrivalled KL-0039-.. Tool Series are:

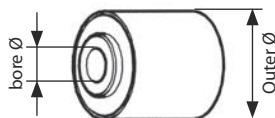
- ☑ Modular system with universally combinable pressure- / support sleeves.
- ☑ Possibility to complement the tool set universally with additional pressure- / support sleeves. Two possible drives (mechanical or hydraulic). Optional use of centring- / pressure rings and press frames.

Silenbloc removal / installation using a pull spindle

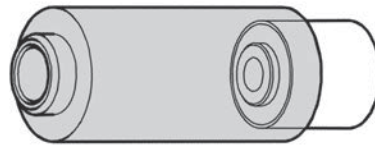
Identification of the necessary parts and assembling the tool:

- ⇒ Measuring the \varnothing of the silenbloc and retaining bore.
- ⇒ Determination of spindle, pressure and support sleeve.

Measure bore \varnothing and silenbloc outer \varnothing

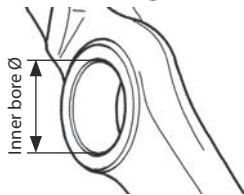


Identify support sleeve (with dimension silenbloc outer \varnothing)

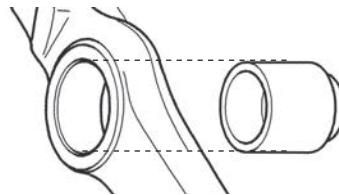


Support sleeve inner \varnothing → greater than → silenbloc outer \varnothing

Measure inner bore \varnothing of retaining bore.

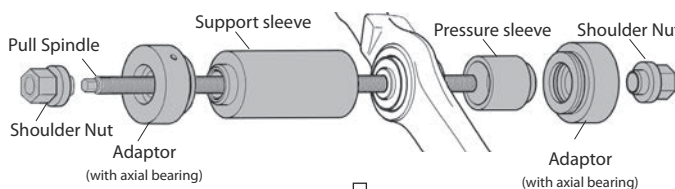


Identify pressure sleeve (with dimension bore inner \varnothing)

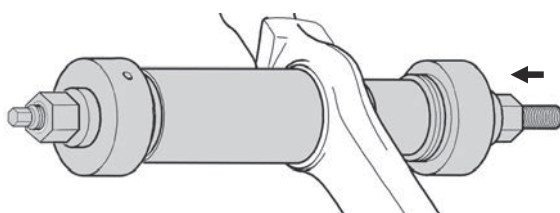


Pressure sleeve outer \varnothing → greater than → bore inner \varnothing

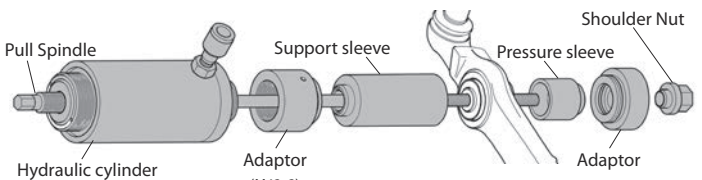
Mounting the silenbloc tool (mechanical drive)



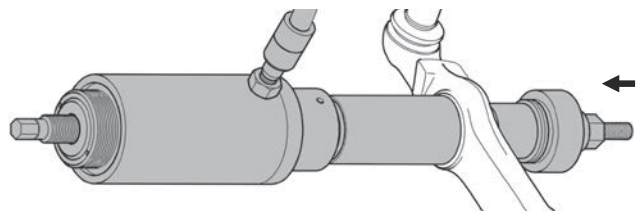
Extracting the silenbloc (mechanically)
[Insertion follows the same principle]



Mounting the silenbloc tool (hydraulic drive)



Extracting the silenbloc (hydraulically)
[Insertion follows the same principle]



2.2 Support Joints, Bearings and Bushings

The GEDORE Automotive Silenbloc Tool KL-0039-Series

The big advantages of the unrivalled KL-0039- Tool Series are:

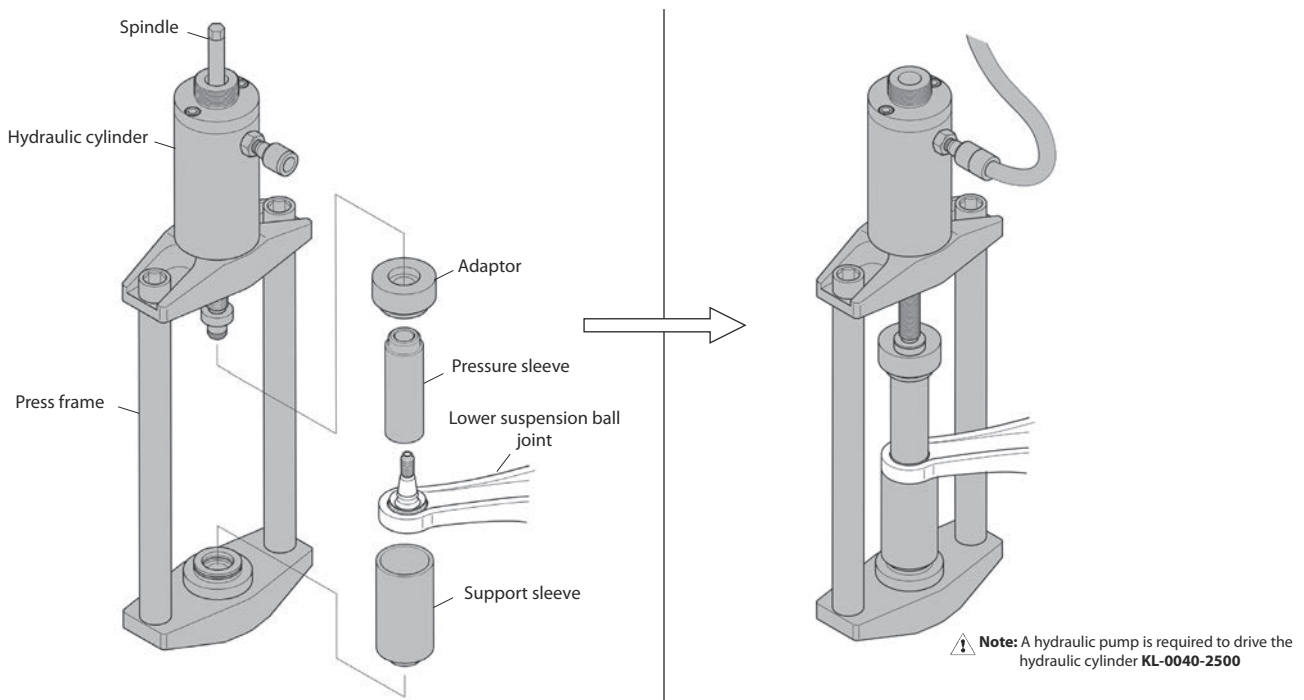
- ☑ Universal use of the tool.
- ☑ Substantial time and cost savings as the required tool can easily and universally be assembled as needed.



Silentbloc / Suspension Ball Joint / Removal / Installation using a press frame

Identification of the necessary parts and assembling the tool:

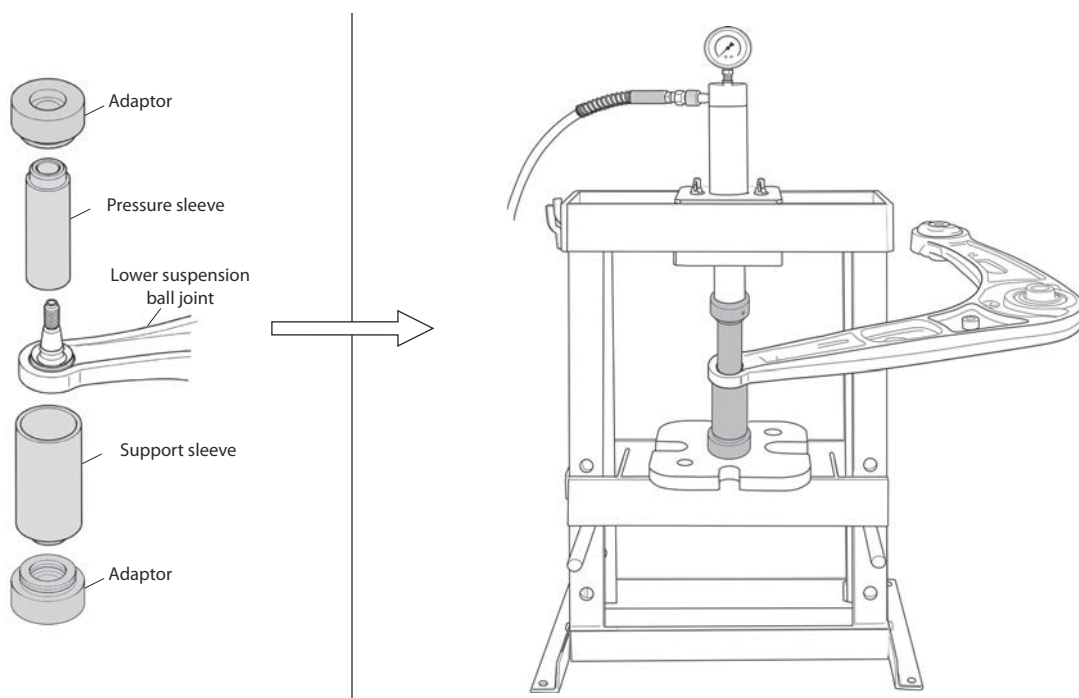
⇒ Mount the tool and press out the silentbloc / suspension ball joint. (Installation follows the same principle)



Silentbloc / 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 silentbloc / suspension ball joint. (Installation follows the same principle)



2. Axle Repair Tools

2.2 Support Joints, Bearings and Bushings



KL-1340-401

[Code 3249255]

Special Socket, 44mm waf, PSA

Applicable to screw-in type suspension ball joints having a waf size of 44mm as found at the front axle of Citroën, Peugeot and Toyota vehicles. For example: Toyota PROACE II, PROACE VERSO; Citroën Jumpy III, Spacetourer; Peugeot Expert III.

For the professional loosening and tightening of front wishbone screw-in type suspension ball joints. An indispensable tool when replacing damaged or worn suspension ball joints in these applications.

Recommended Accessory:

1993 U-20 Reversible ratchet 1/2"

Technical Data:

Waf size:	44mm
Drive:	1/2"
Length:	85mm
Profile:	special hex profile



KL-1220-246

[Code 2686295]

Socket, Size (waf) 46mm, Fiat Ducato/Citroën Jumper/Peugeot Boxer

Applicable to Fiat Ducato, Citroën Jumper and Peugeot Boxer.

For loosening and tightening the drive shaft fastening nut.

Recommended Accessory:

1993 U-20 Reversible Ratchet 1/2"

Technical Data:

Size (waf):	46mm
Profile:	bi-hex
Drive:	1/2"
Length:	100mm



9 pcs.



KL-0039-7533

[Code 2489708]

Sleeve Set, Mercedes Sprinter / VW Crafter

Applicable to lower ball joints on front axle wishbones as found in: Mercedes Sprinter (W901, W902, W903, W904, W906, W907) as well as VW Crafter (2E/2F), VW LT (2D).

Used in conjunction with the necessary drive parts, the sleeve set enables the suspension ball joints to be quickly and properly pressed out/into the lower wishbone in situ on the vehicle.

No need to dismantle and re-install the wishbone!

Necessary Drive Parts (cf. Chapter Drives):

Hydraulic Drive:

KL-0040-2500 Hydraulic Cylinder (17t), **KL-0040-35** M25 Hydraulic Pump, **KL-0039-1930** Pressure Spindle (M20x350), **KL-0039-1002** Adaptor, **KL-0039-1140** Press Frame

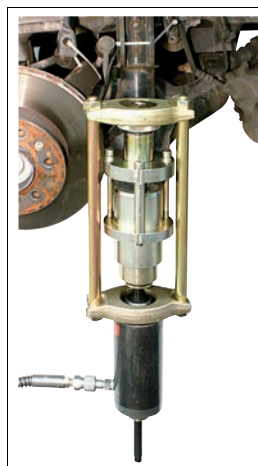
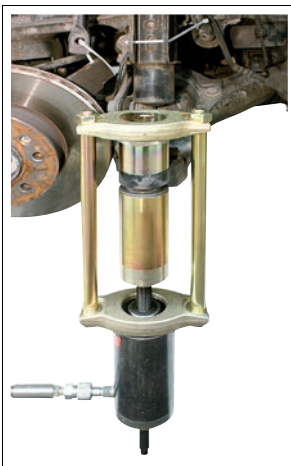
Mechanical Drive:

KL-0174-831 Spindle, **KL-0039-1140** Press Frame, **KL-0039-1002** Retaining Adaptor

Scope of Delivery:

KL-0039-7533 Sleeve Set, Mercedes Sprinter / VW Crafter

Part No.	Description	Qty
KL-0039-7534	Support Sleeve with Clamping Washer	1
KL-0039-1829	Press Sleeve	1
KL-0039-1762	Press Sleeve, Ø 62mm, long	1
KL-0039-1662	Support Sleeve, Ø 62mm, short	1



2.2 Support Joints, Bearings and Bushings

KL-0039-7535 [Code 2489686]

Upgrade Kit for KL-0039-750, Mercedes Sprinter / VW Crafter

Suitable for Mercedes Sprinter (W906, W907) 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, W907) models from 2006 onwards and VW Crafter (2E/2F) models from 2006 onwards.

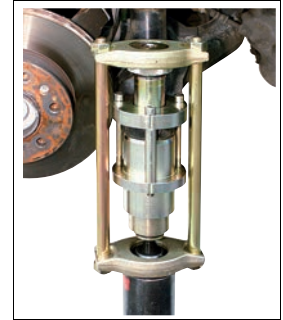
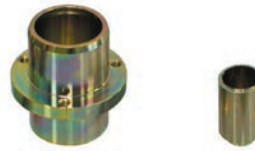
Necessary Accessories:

KL-0039-750 Pressing Device or **KL-0039-7503** Sleeve Set (+ Drive Parts)

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	Press Sleeve	1

2 pcs.



KL-0039-732 [Code 2364921]

Sleeve Set, Lower Suspension Ball Joint, Renault Master II / Opel/Vauxhall Movano I

Suitable for Renault Master II ('98 onwards) and Opel/Vauxhall Movano I ('98 onwards).

The **KL-0039-732** sleeve set allows for the quick, professional and safe removal and installation of suspension ball joints on the front lower wishbone. This tool enables even heavily corroded ball joints to be pushed out and pressed in within just a few minutes. No need to dismantle the lower wishbone.

Necessary Drive Parts (cf. Chapter Drives):

Hydraulic Drive:

KL-0040-2500 Hydraulic Cylinder (17t), **KL-0215-35 M25** Hydraulic Pump,

KL-0039-1140 Press Frame, **KL-0039-1930** Pressure Spindle,

KL-0039-1002 Retaining Adaptor

Mechanical Drive:

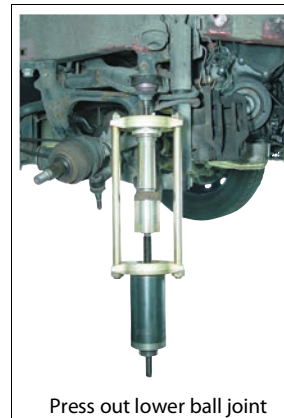
KL-0174-831 Mechanical Drive Set, **KL-0039-1140** Press Frame,

KL-0039-1002 Retaining Adaptor

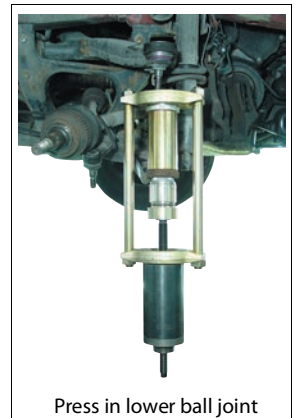
Scope of Delivery: KL-0039-732 Sleeve Set, Lower Suspension Ball Joint

Part-No.	Description	Qty
KL-0039-1821	Press/Support Sleeve	1
KL-0039-1658	Press/Support Sleeve, short, Ø 58mm	1
KL-0039-1652	Press/Support Sleeve, short, Ø 52mm	1
KL-0039-1822	Press/Support Sleeve	1

4 pcs.



Press out lower ball joint



Press in lower ball joint

KL-0039-722 [Code 2364565]

Sleeve Set, Upper Suspension Ball Joint, Renault Master II / Opel/Vauxhall Movano I

Suitable for Renault Master II (1998 onwards) and Opel/Vauxhall Movano I (1998 onwards), front axle upper suspension ball joint.

The sleeve set **KL-0039-722** allows the quick, professional and safe removal and installation of the specified suspension ball joints on the front upper wishbone. This tool enables even heavily corroded ball joints to be pushed out and replaced within just a few minutes. The removal of the upper wishbone is not necessary.

Necessary Drive Parts (cf. Chapter Drives):

Hydraulic Drive:

KL-0215-35 M25 Hydraulic Pump, **KL-0040-2500** Hydraulic Cylinder (17t),

KL-0039-1140 Press Frame, **KL-0039-1930** Pressure Spindle,

KL-0039-1002 Retaining Adaptor

Mechanical Drive:

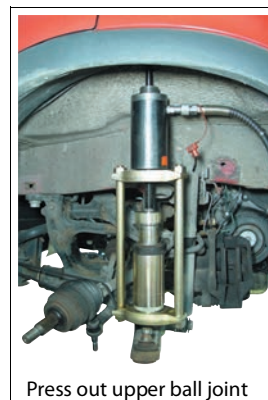
KL-0174-831 Mechanical Drive Set, **KL-0039-1140** Press Frame,

KL-0039-1002 Retaining Adaptor

Scope of Delivery: KL-0039-722 Sleeve Set, Upper Suspension Ball Joint

Part No.	Description	Qty
KL-0039-1644	Press/Support Sleeve, short, Ø 44mm	1
KL-0039-1764	Press/Support Sleeve, long, Ø 64mm	1
KL-0039-1820	Support Sleeve for Renault Master	1
KL-0039-1758	Press/Support Sleeve, long, Ø 58mm	1

4 pcs.



Press out upper ball joint



Press in upper ball joint

2. Axle Repair Tools

2.2 Support Joints, Bearings and Bushings



15 pcs.



KL-1000-20 A

[Code 3091600]

King Pin Press (65t), with Sleeve Set

Universally suitable for use on HGVs.

Alternative tools: W 739 589 00 33 00

Designed for the quick and professional pressing out/pressing in of king pins as found on HGVs.

The king pin press with its adjustable press frame has been developed and adapted to satisfy the latest safety requirements. Thanks to its compact and ingenious design, the king pin press not only saves a lot of time but also allows for easy and, above all, safe operation.

The heavy-duty 65t hydraulic cylinder with integrated hand pump and the pneumatic quick-stroke 'extend/retract' valve enable even severely seized king pins to be extracted with ease.

Advantages:

- Developed in accordance with the latest safety standards and requirements.
- Universal use - in situ on the vehicle as well as in a free-standing position.
- Saves a lot of time.
- Universally adjustable press frame can be rotated 180°.
- The three-axle quick adjustment mechanism allows for the quick and easy positioning of the press on the vehicle.

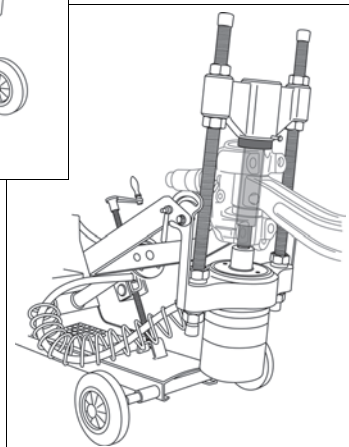
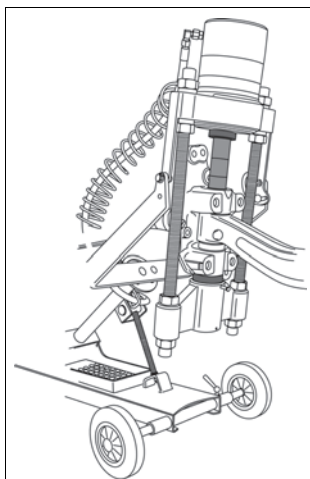
Technical Data:

Press capacity:	65t
Clear width between threaded bolts:	290mm
Clear height (max.):	480mm
Stroke:	120mm
Nominal pressure:	420bar
Compressed air connection:	max. 13 bar
Weight:	approx. 130kg
Oil fill volume:	approx. 3.5 litre

Scope of Delivery:

KL-1000-20 A King Pin Press (65t), with Sleeve Set

Part No.	Description	Qty
KL-1000-200 A	King Pin Press (65t), without Sleeve Set	1
KL-1000-230 A	Sleeve Set	1



KL-1000-2055

[Code 2996553]

Sleeve, Ø 69mm, Length 74mm

Suitable for MAN HGVs.

Necessary for pressing out/pressing in the king pins found at the front axle of MAN HGVs/commercial vehicles. The sleeve is used in conjunction with the **KL-1000-20 A** king pin press.

2.2 Support Joints, Bearings and Bushings

KL-0039-160 E (Code 2840723)

Press/Support Sleeve Set, Ø 30-90mm, short, 45mm, in a Foam Insert

Indispensable tool set for pressing in and pressing out silentblocks, shafts, bushings etc. The sleeves are used in conjunction with the tools of the **KL-0039-.. Series**.

Necessary Drive Parts (cf. Chapter Drives):

Hydraulic Drive:

KL-0040-2500 Hydraulic Cylinder (17t), **KL-0215-35 M25** Hydraulic Pump, **KL-0039-1002** Retaining Adaptor, **KL-0039-1003** Retaining Adaptor, **KL-0039-21.. Series** Pull Spindle

Hydraulic Press Frame (optional):

KL-0039-1140 Press Frame, **KL-0039-1930** Pressure Spindle

Mechanical Drive:

KL-0039-1011 Retaining Adaptor, **KL-0039-1002** Retaining Adaptor, **KL-0039-22.. Series** Pull Spindle

Mechanical Press Frame (optional):

KL-0039-1140 Press Frame, **KL-0174-831** Mechanical Drive Set

Scope of Delivery: KL-0039-160 E Press/Support Sleeve Set, Ø 30-90mm, short, 45mm

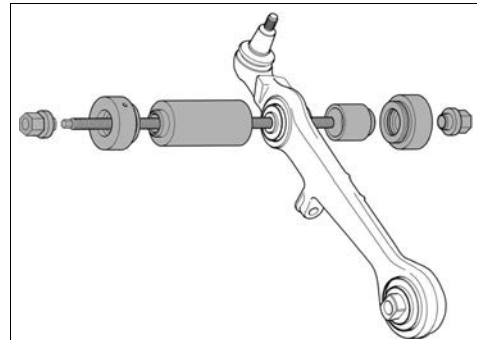
Part No.	Description	Qty	Part No.	Description	Qty
KL-0039-1630	Ø 30/22mm	1	KL-0039-1662	Ø 62/54mm	1
KL-0039-1632	Ø 32/24mm	1	KL-0039-1664	Ø 64/56mm	1
KL-0039-1634	Ø 34/26mm	1	KL-0039-1666	Ø 66/58mm	1
KL-0039-1636	Ø 36/28mm	1	KL-0039-1668	Ø 68/60mm	1
KL-0039-1638	Ø 38/30mm	1	KL-0039-1670	Ø 70/62mm	1
KL-0039-1640	Ø 40/32mm	1	KL-0039-1672	Ø 72/64mm	1
KL-0039-1642	Ø 42/34mm	1	KL-0039-1674	Ø 74/66mm	1
KL-0039-1644	Ø 44/36mm	1	KL-0039-1676	Ø 76/68mm	1
KL-0039-1646	Ø 46/38mm	1	KL-0039-1678	Ø 78/70mm	1
KL-0039-1648	Ø 48/40mm	1	KL-0039-1680	Ø 80/72mm	1
KL-0039-1650	Ø 50/42mm	1	KL-0039-1682	Ø 82/74mm	1
KL-0039-1652	Ø 52/44mm	1	KL-0039-1684	Ø 84/76mm	1
KL-0039-1654	Ø 54/46mm	1	KL-0039-1686	Ø 86/78mm	1
KL-0039-1656	Ø 56/48mm	1	KL-0039-1688	Ø 88/80mm	1
KL-0039-1658	Ø 58/50mm	1	KL-0039-1690	Ø 90/82mm	1
KL-0039-1660	Ø 60/52mm	1	KL-4999-1312	Foam Insert	1

31 pcs.



Tool Storage System:

KL-4999-1391 Plastic Storage Case



KL-0039-170 E (Code 2840693)

Press/Support Sleeve Set, Ø 30-90mm, long, 115mm, in a Foam Insert

Indispensable tool set for pressing in and pressing out silentblocks, shafts, bushings etc. The sleeves are used in conjunction with the tools of the **KL-0039-.. Series**.

Necessary Drive Parts (cf. Chapter Drives):

Hydraulic Drive:

KL-0040-2500 Hydraulic Cylinder (17t), **KL-0215-35 M25** Hydraulic Pump, **KL-0039-1002** Retaining Adaptor, **KL-0039-1003** Retaining Adaptor, **KL-0039-21.. Series** Pull Spindle

Hydraulic Press Frame (optional):

KL-0039-1140 Press Frame, **KL-0039-1930** Pressure Spindle

Mechanical Drive:

KL-0039-1011 Retaining Adaptor, **KL-0039-1002** Retaining Adaptor, **KL-0039-22.. Series** Pull Spindle

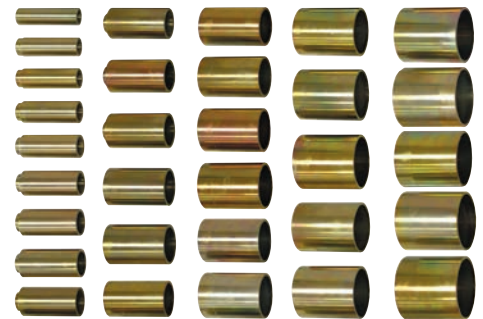
Mechanical Press Frame (optional):

KL-0039-1140 Press Frame, **KL-0174-831** Mechanical Drive Set

Scope of Delivery: KL-0039-170 E Press/Support Sleeve Set, Ø 30-90mm, long, 115mm

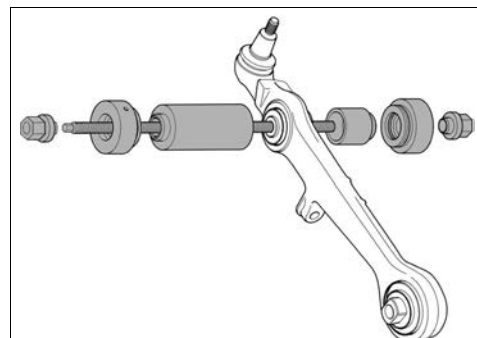
Part No.	Description	Qty	Part No.	Description	Qty
KL-0039-1730	Ø 30/22mm	1	KL-0039-1762	Ø 62/54mm	1
KL-0039-1732	Ø 32/24mm	1	KL-0039-1764	Ø 64/56mm	1
KL-0039-1734	Ø 34/26mm	1	KL-0039-1766	Ø 66/58mm	1
KL-0039-1736	Ø 36/28mm	1	KL-0039-1768	Ø 68/60mm	1
KL-0039-1738	Ø 38/30mm	1	KL-0039-1770	Ø 70/62mm	1
KL-0039-1740	Ø 40/32mm	1	KL-0039-1772	Ø 72/64mm	1
KL-0039-1742	Ø 42/34mm	1	KL-0039-1774	Ø 74/66mm	1
KL-0039-1744	Ø 44/36mm	1	KL-0039-1776	Ø 76/68mm	1
KL-0039-1746	Ø 46/38mm	1	KL-0039-1778	Ø 78/70mm	1
KL-0039-1748	Ø 48/40mm	1	KL-0039-1780	Ø 80/72mm	1
KL-0039-1750	Ø 50/42mm	1	KL-0039-1782	Ø 82/74mm	1
KL-0039-1752	Ø 52/44mm	1	KL-0039-1784	Ø 84/76mm	1
KL-0039-1754	Ø 54/46mm	1	KL-0039-1786	Ø 86/78mm	1
KL-0039-1756	Ø 56/48mm	1	KL-0039-1788	Ø 88/80mm	1
KL-0039-1758	Ø 58/50mm	1	KL-0039-1790	Ø 90/82mm	1
KL-0039-1760	Ø 60/52mm	1	KL-4999-1311	Foam Insert	1

31 pcs.



Tool Storage System:

KL-4999-1390 Plastic Storage Case



2. Axle Repair Tools

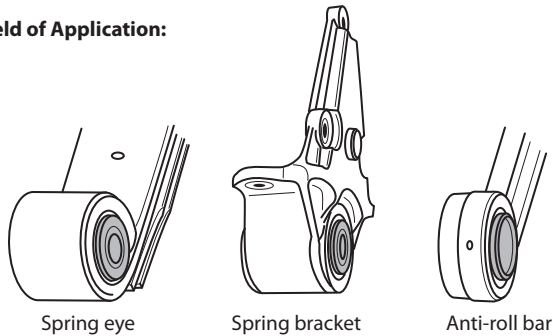
2.2 Support Joints, Bearings and Bushings

KL-1010-Series Pulling Devices for HGV Silentblocs

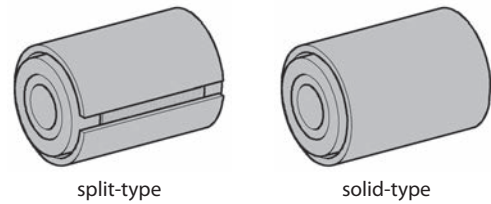
[German Utility Model]



Field of Application:



Silentblocs:



The replacement of split-type silentblocs is still a challenging task for the automotive mechanic as this type of silentbloc not only is difficult to remove but also needs to be installed under high preload conditions.

The GEDORE Automotive pulling devices for HGV silentblocs of the **KL-1010-Series** allow for the quick, professional and safe removal and replacement of split-type silentblocs as found on stabilizers, thrust rods, leaf spring eyes, spring brackets and other axle suspension components. The pulling devices are designed to be used in conjunction with a hydraulic pump such as the **KL-0215-35 M25** (with hose, coupling, adaptor and pressure gauge included).

The removal and installation of the silentblocs can be carried out at a work bench or in situ on the vehicle if space conditions allow.

Based on the tried and tested GEDORE Automotive Modular System, the pulling devices are each composed of a set of sleeves and the corresponding drive tool kit.

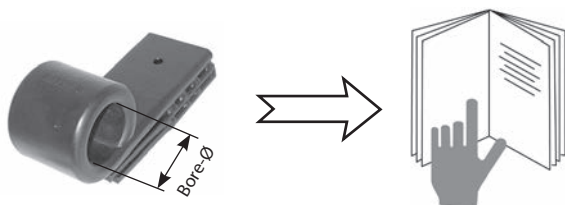
The big advantage of the unique GEDORE Automotive Modular System is that it requires substantially fewer single parts for more diameters and applications than conventional silentbloc tools (==> high cost savings).

Advantages:

- Substantial time and cost savings
- Tools are easy to use.
- The **KL-0040-2500** (17t) hydraulic cylinder can universally be used on other GEDORE Automotive tools.

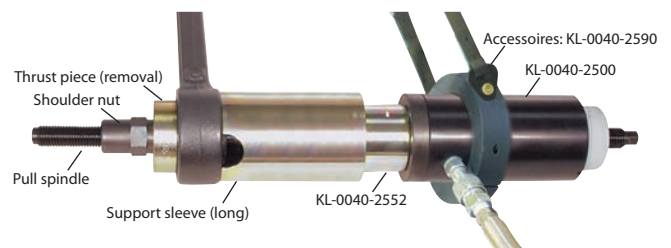
Application example / procedure:

1. Identify bore diameter and select the appropriate tool from the table:



2. Silentbloc Removal:

Assemble/mount pulling device as shown below and extract silentbloc by operating the hydraulic pump.



3. Silentbloc Installation ==> pre-tensioning the new silentbloc:

Assemble/mount pulling device and insert new silentbloc into conical sleeve. Silentbloc will be pre-tensioned via the sleeve inner cone. The spring-loaded thrust piece ensures accurate support throughout the whole working process.



4. Silentbloc Installation:

Assemble/mount pulling device and insert pre-tensioned silentbloc into bore.



2.2 Support Joints, Bearings and Bushings

KL-4043-4232

[Code 2910748]

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.

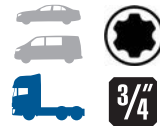
Alternative tools: W 963 589 00 09 00

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.

Recommended Accessory: 3293 U-2 Reversible Ratchet 3/4"

Technical Data:

Drive:	3/4"
Length:	90mm
Size (waf):	EP32



KL-1011-111

[Code 2450178]

Set of Sleeves for SAF HGV Silentbloc Ø 139mm

Suitable for silentblocs with Ø of 139mm as found on SAF INTRADISC plus air suspension axles.

The sleeve set **KL-1011-111** allows the quick, professional and safe removal and installation of the specified silentblocs on axle suspensions.

Necessary Drive Parts (cf. Chapter Drives):

Hydraulic Drive (28t):

KL-0040-2800 Hydraulic Cylinder 28t, **KL-0215-35 M28** Hydraulic Pump,
KL-0040-2841 Pull Spindle with Nut

Hydraulic Drive (17t):

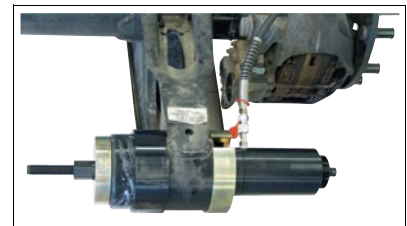
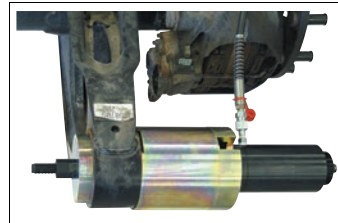
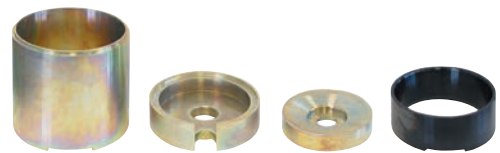
KL-0040-2500 Hydraulic Cylinder 17t, **KL-0215-35 M25** Hydraulic Pump,
KL-0039-1920-1 Pull Spindle, **KL-0040-3009** Clamping Nut,
KL-0039-1002 Retaining Adaptor, **KL-0039-1340** Centring Ring

Scope of Delivery:

KL-1011-111 Set of Sleeves for SAF HGV silentbloc Ø 139mm

Part No.	Description	Qty
KL-1011-1101	Conical Sleeve, Ø 139mm	1
KL-1011-1102 A	Thrust Piece	1
KL-1011-1103	Support Sleeve	1
KL-1011-1104	Cap	1

4 pcs.



KL-1001-101 A

[Code 3289184]

Sleeve set for commercial vehicle silent blocks Ø 57 + 68mm

Suitable for silent blocks with bores of Ø 57 + 68mm. Particularly suitable e.g. for parabolic control arms on ROR, SAF, Trailer trailers and semi-trailers, and BPW semi-trailers with ECO PLUS 2 axle and compressed-air suspension.

The sleeve set enables the quick and professional removal and installation of closed silent blocks, e.g. on parabolic control arms, stabilisers, thrust struts, leaf spring eyes, spring brackets, and other axle suspension parts.

Recommended Accessory:

KL-1010-1205 Thrust piece 59mm Ø (for BPW silent blocks with 60mm bore diameter and M24 screw)

Necessary Drive Parts (cf. Chapter Drives):

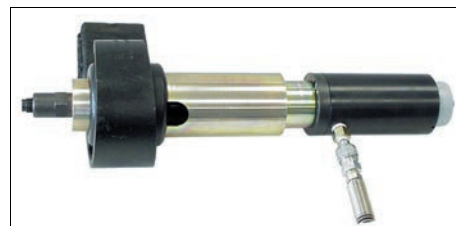
KL-0040-2500 Hydraulic Cylinder (17t), **KL-0215-35 M25** Hydraulic Pump,
KL-0039-1003 Retaining Adaptor, **KL-0039-2120** Pull Spindle + Quick-Action Clamping Nut

Scope of Delivery:

KL-1001-101 A Sleeve set for commercial vehicle silent blocks 57 + 68mm Ø

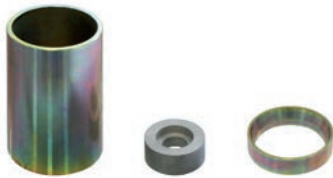
Part No.	Description	Qty
KL-1010-1001	Support sleeve, long (removal)	1
KL-1010-1006	Support sleeve, short (installation)	1
KL-1001-1003	Thrust piece 66mm Ø	1
KL-1001-1013	Thrust piece 55mm Ø	1

4 pcs.



2. Axle Repair Tools

2.2 Support Joints, Bearings and Bushings



3 pcs.



KL-1001-251 A

[Code 2546507]

Set of Sleeves for Drawbar Silentbloc

Suitable for silentblocs with Ø of 57mm as found on "Regensburger" HGV trailer drawbars.

The **KL-1001-251 A** sleeve set allows for the quick and easy removal and replacement of HGV trailer drawbar silentblocs.

Necessary Drive Parts (cf. Chapter Drives):

Hydraulic Drive (28t):

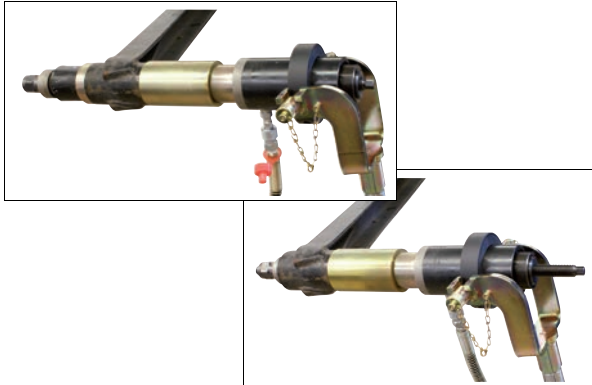
KL-0040-2800 Hydraulic Cylinder (28t), **KL-0215-35 M28** Hydraulic Pump, **KL-0040-2846-1** Pull Spindle, **KL-0039-2120-2** Quick-Action Clamping Nut, **KL-0039-1003** Retaining Adaptor

Hydraulic Drive (17t):

KL-0040-2500 Hydraulic Cylinder (17t), **KL-0215-35 M25** Hydraulic Pump, **KL-0039-2120** Pull Spindle with Quick-Action Clamping Nut, **KL-0039-1003** Retaining Adaptor

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



7 pcs.



KL-1002-221

[Code 2727978]

Pressure Piece/Sleeve Set, Ø 40mm

Suitable for silentblocs with 40mm Ø (bead Ø 50mm).

For example: Renault silentblocs (No. 50 10 294 961 and 50 00 448 404) as found on Renault Midlum/D, 4x4 Midlum/D leaf spring eye, bearing bracket etc.

Alternative tool: 74 88 840 165

The **KL-1002-221** pressure piece/sleeve set allows for the quick, safe and professional replacement of silentblocs.

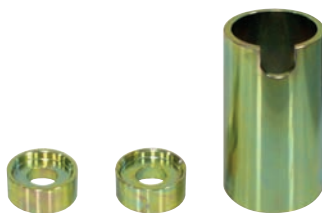
The removal and installation of the silentblocs can be carried out on a workbench or in situ on the vehicle if space conditions allow.

Necessary Drive Parts (cf. Chapter Drives):

KL-0040-2500 Hydraulic Cylinder (17t), **KL-0215-35 M25** Hydraulic Pump, **KL-0039-1916-1** Pull Spindle, **KL-0039-1916-3** Shoulder Nut, **KL-0039-1003** Retaining Adaptor

Scope of Delivery: KL-1002-221 Pressure Piece/Sleeve Set, Ø 40mm

Part No.	Description	Qty
KL-0039-1762	Pressure-/Support Sleeve, long, Ø 62mm	1
KL-0039-1760	Pressure-/Support Sleeve, long, Ø 60mm	1
KL-1002-2201	Pressure Piece	1
KL-1002-2202-1	Support Sleeve, short, Ø 40mm	1
KL-1002-2202-2	Support Sleeve, long, Ø 40mm	1
KL-1002-2203	Centring Ring, Ø 40mm	1
KL-1002-2204	Support Sleeve, short, Ø 62mm	1



3 pcs.



KL-1002-251

[Code 2727889]

Pressure Piece/Sleeve Set, Ø 50mm

Suitable for solid-type metal silentblocs with 50mm Ø as found on Renault Midlum/D, Premium/T, Magnum/T; Volvo FE, FM, FH.

Alternative tool: 74 88 840 168

The **KL-1002-251** pressure piece/sleeve set allows for the quick, safe and professional replacement of solid-type metal silentblocs with 50mm Ø.

The removal and installation of the silentblocs can be carried out on a workbench or in situ on the vehicle if space conditions allow.

Necessary Drive Parts (cf. Chapter Drives):

Hydraulic Drive (17t):

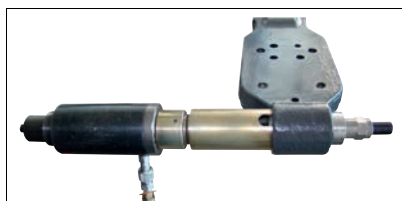
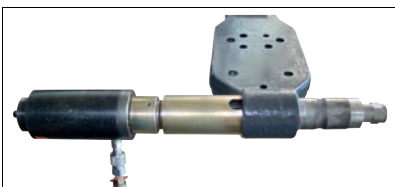
KL-0040-2500 Hydraulic Cylinder (17t), **KL-0215-35 M25** Hydraulic Pump, **KL-0039-2120** Pull Spindle + Quick-Action Clamping Nut, **KL-0039-1003** Retaining Adaptor

Hydraulic Drive (28t):

KL-0040-2800 Hydraulic Cylinder (28t), **KL-0215-35 M28** Hydraulic Pump, **KL-0040-2846-1** Pull Spindle, **KL-0039-2120-2** Quick-Action Clamping Nut, **KL-0039-1003** Retaining Adaptor

Scope of Delivery: KL-1002-251 Pressure Piece/Sleeve Set, Ø 50mm

Part No.	Description	Qty
KL-1002-2501	Pressure Piece, Ø 40.5mm	1
KL-1002-2502	Pressure Piece, Ø 42.3mm	1
KL-1011-1001	Support Sleeve, long, Ø 62mm	1



2.2 Support Joints, Bearings and Bushings

KL-1002-211 (Code 2727617) Pressure Piece/Sleeve Set, Ø 64mm

Applicable to: Renault Magnum/T, Premium/T, Midlum/D.

Alternative tool: 74 88 840 077

The **KL-1002-211** pressure piece/sleeve set allows for the quick, safe and professional replacement of silentblocs with 64mm Ø as found on leaf spring bearing brackets. The removal and installation of the silentblocs can be carried out on a workbench or in situ on the vehicle if space conditions allow.

Necessary Drive Parts (cf. Chapter Drives):

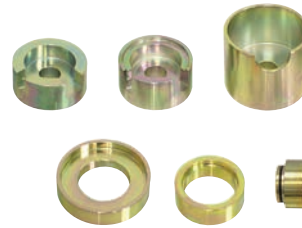
Hydraulic Drive (17t):

KL-0040-2500 Hydraulic Cylinder (17t), **KL-0215-35 M25** Hydraulic Pump, **KL-0039-2120** Pull Spindle + Quick-Action Clamping Nut, **KL-0039-1003** Retaining Adaptor

Hydraulic Drive (28t):

KL-0040-2800 Hydraulic Cylinder (28t), **KL-0215-35 M28** Hydraulic Pump, **KL-0040-2846-1** Pull Spindle, **KL-0039-2120-2** Quick-Action Clamping Nut, **KL-0039-1003** Retaining Adaptor

6 pcs.



Scope of Delivery:

KL-1002-211 Pressure Piece/Sleeve Set, Ø 64mm

Part No.	Description	Qty
KL-1002-2101 A	Pressure Piece	1
KL-1002-2102	Support Ring	1
KL-1002-2103	Pressure Piece	1
KL-1002-2104 A	Support Sleeve, short	1
KL-1002-2105	Pressure Piece	1
KL-0039-1002	Retaining Adaptor for Clamping Nut M20	1

KL-1010-120 A (Code 3292592) Pressure Piece/Sleeve Set, Ø 60mm

Suitable for split-type silentblocs with 60mm Ø (removed 62mm Ø); e.g. Mercedes Actros leaf spring front silentbloc and Renault silentblocs (No. 74 82 054 079, 50 10 557 875, 74 20 839 455, 74 21 622 369, 74 21 646 217 and 74 20 929 989) as found on Renault Midlum / D, Premium / T, Magnum / T, Kerax / C; DAF 65 CF, 75 CF, 85 CF, LF55; Volvo FE, FM, FH, FMX Leaf spring and bearing bracket.

The pressure piece/sleeve set allows for the fast, professional and safe replacement of split-type and solid-type silentblocs on anti-roll bars.

Necessary Drive Parts (cf. Chapter Drives):

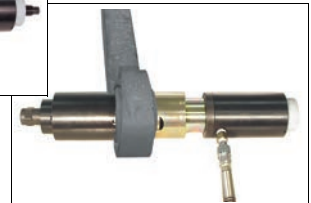
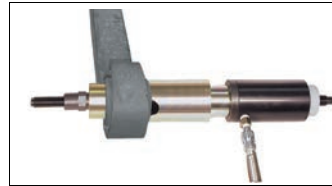
Hydraulic Drive (17t):

KL-0040-2500 Hydraulic Cylinder (17t), **KL-0215-35 M25** Hydraulic Pump, **KL-0039-1920-1** Pull Spindle, **KL-0039-2120-2** Quick-Action Clamping Nut, **KL-0039-1003** Retaining Adaptor, **KL-1010-1010** Drive Sleeve Set (Ø 70mm)

Hydraulic Drive (28t):

KL-0040-2800 Hydraulic Cylinder (28t), **KL-0215-35 M28** Hydraulic Pump, **KL-0040-2846-1** Pull Spindle (M20x590), **KL-0039-2120-2** Quick-Action Clamping Nut, **KL-0039-1003** Retaining Adaptor, **KL-1010-1010** Drive Sleeve Set (Ø 70mm)

2 pcs.



Scope of Delivery:

KL-1010-120 A Pressure Piece/Sleeve Set, Ø 60mm

Part No.	Description	Qty
KL-1010-1201	Conical Sleeve, Ø 60mm	1
KL-1010-1205	Pressure Piece (removal), Ø 60mm	1

KL-1010-130 A (Code 3292614) Pressure Piece/Sleeve Set, Ø 63mm

Suitable for split-type silentblocs with Ø of 63mm (removed 65mm); e.g. MAN TGA front spring bracket rear silentbloc.

The **KL-1010-130 A** pressure piece/sleeve set allows for the fast, professional and safe replacement of split-type and solid-type silentblocs on anti-roll bars.

The removal and installation of the silentblocs can be carried out on a workbench or in situ on the vehicle if space conditions allow.

Necessary Drive Parts (cf. Chapter Drives):

Hydraulic Drive (17t):

KL-0040-2500 Hydraulic Cylinder (17t), **KL-0215-35 M25** Hydraulic Pump, **KL-0039-2120** Pull Spindle with Quick-Action Clamping Nut, **KL-0039-1003** Retaining Adaptor, **KL-1010-1010** Drive Sleeve Set (Ø 70mm)

Hydraulic Drive (28t):

KL-0040-2800 Hydraulic Cylinder (28t), **KL-0215-35 M28** Hydraulic Pump, **KL-0040-2846-1** Pull Spindle (M20x590), **KL-0039-2120-2** Quick-Action Clamping Nut, **KL-1010-1010** Drive Sleeve Set (Ø 70mm)

2 pcs.



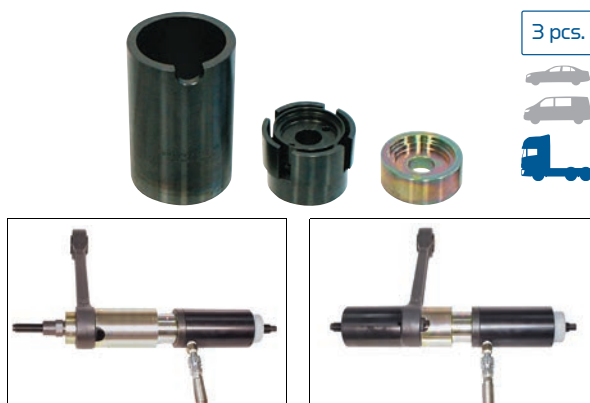
Scope of Delivery:

KL-1010-130 A Pressure Piece/Sleeve Set, Ø 63mm

Part No.	Description	Qty
KL-1010-1301	Conical Sleeve, Ø 63mm	1
KL-1010-1305	Pressure Piece (removal), Ø 63mm	1

2. Axle Repair Tools

2.2 Support Joints, Bearings and Bushings



Scope of Delivery:

KL-1010-140 B 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-1010-1406	Pressure Piece (removal), Ø 65mm	1

KL-1010-140 B

[Code 3292630]

Pressure Piece/Sleeve Set, Ø 65mm

Suitable for split-type silentbloks with Ø of 65mm (removed 70mm) as found on Mercedes Actros front axle anti-roll bars.

The pressure piece / sleeve set **KL-1010-140 B** allows for the quick, professional and safe replacement of split-type and solid-type silentbloks on anti-roll bars. The removal and installation of the silentbloks can be carried out on a workbench or in situ on the vehicle if space conditions allow.

Necessary Drive Parts (cf. Chapter Drives):

Hydraulic Drive (17t):

KL-0040-2500 Hydraulic Cylinder (17t), **KL-0215-35 M25** Hydraulic Pump, **KL-0039-2120** Pull Spindle with Quick-Action Clamping Nut, **KL-0039-1003** Retaining Adaptor, **KL-1010-1010** Drive Sleeve Set (Ø 70mm)

Hydraulic Drive (28t):

KL-0040-2800 Hydraulic Cylinder (28t), **KL-0215-35 M28** Hydraulic Pump, **KL-0040-2846-1** Pull Spindle (M20x590), **KL-0039-2120-2** Quick-Action Clamping Nut, **KL-0039-1003** Retaining Adaptor, **KL-1010-1010** Drive Sleeve Set (Ø 70mm)



Scope of Delivery:

KL-1010-220 A 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-1010-2205	Pressure Piece (removal), Ø 75mm	1

KL-1010-220 A

[Code 3292649]

Pressure Piece/Sleeve Set, Ø 75mm

Suitable for split-type silentbloks with Ø of 75mm (removed 80mm) as found on Mercedes Actros and Atego rear axle anti-roll bars.

The **KL-1010-220 A** pressure piece/sleeve set allows for the fast, professional and safe replacement of split-type and solid-type silentbloks on anti-roll bars. The removal and installation of the silentbloks can be carried out on a workbench or in situ on the vehicle if space conditions allow.

Necessary Drive Parts (cf. Chapter Drives):

Hydraulic Drive (17t):

KL-0040-2500 Hydraulic Cylinder (17t), **KL-0215-35 M25** Hydraulic Pump, **KL-0039-2120** Pull Spindle with Quick-Action Clamping Nut, **KL-0039-1003** Retaining Adaptor, **KL-1010-1030** Drive Sleeve Set (Ø 90mm)

Hydraulic Drive (28t):

KL-0040-2800 Hydraulic Cylinder (28t), **KL-0215-35 M28** Hydraulic Pump, **KL-0040-2846-1** Pull Spindle (M20x590), **KL-0039-2120-2** Quick-Action Clamping Nut, **KL-0039-1003** Retaining Adaptor, **KL-1010-1030** Drive Sleeve Set (Ø 90mm)



Scope of Delivery:

KL-1010-240 A Pressure Piece/Sleeve Set, Ø 51mm

Part No.	Description	Qty
KL-1010-2401	Conical Sleeve, Ø 51mm	1
KL-1010-2404	Pressure Piece, Ø 50mm	1

KL-1010-240 A

[Code 3292657]

Pressure Piece/Sleeve Set, Ø 51mm

Applicable to both split-type and solid-type silentbloks with 51mm Ø (removed with Ø of 52mm) as found on Volvo FM, FH and Renault etc.

The **KL-1010-240 A** pressure piece/sleeve set allows for the quick and professional replacement of both split-type and solid-type silentbloks on leaf springs. The removal and installation of the silentbloks can be carried out on a workbench or in situ on the vehicle if space conditions allow.

Necessary Drive Parts (cf. Chapter Drives):

Hydraulic Drive (17t):

KL-0040-2500 Hydraulic Cylinder (17t), **KL-0215-35 M25** Hydraulic Pump, **KL-0039-2120** Pull Spindle with Quick-Action Clamping Nut, **KL-0039-1003** Retaining Adaptor, **KL-1010-1010** Drive Sleeve Set (Ø 70mm)

Hydraulic Drive (28t):

KL-0040-2800 Hydraulic Cylinder (28t), **KL-0215-35 M28** Hydraulic Pump, **KL-0040-2846-1** Pull Spindle (M20x590), **KL-0039-2120-2** Quick-Action Clamping Nut, **KL-0039-1003** Retaining Adaptor, **KL-1010-1010** Drive Sleeve Set (Ø 70mm)

HIGH-QUALITY SPECIALIST TOOLS

Durable, safe and innovative.

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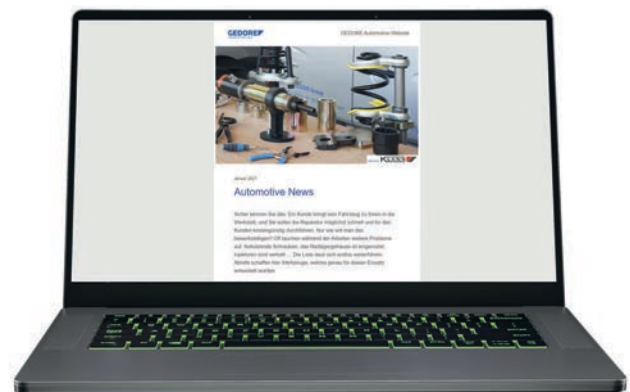


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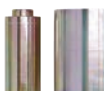
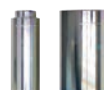


2. Axle Repair Tools

2.2 Support Joints, Bearings and Bushings



12 pcs.



KL-1039-111

[Code 3275299]

HGV Press Frame 28t

Universally fits commercial vehicles, construction machines, agricultural machines, trailers and semitrailers.

The **KL-1039-111** press frame is designed for simple, fast and safe pressing in and removal of bushes, bearings and bolts in the commercial vehicle sector.

For example, on extension arms, tippers, deposit tippers, lifting arms, hook lift systems, chassis parts and much more. With additional pressure/support sleeves from the **KL-0039 Series** this can easily be supplemented with further diameters.

The bearing base included in the scope of delivery also allows the mobile NFZ press frame to be placed e.g. on a workbench, as well as for stationary use as a light-weight stand press for on the road, e.g. in commercial vehicle service or repair vehicles.

The length and width of the NFZ press frame can also be quickly adjusted using the extension rods and the holes in the base plates.

Required Drive Parts:

KL-0215-35 M28 Hydraulic Pump, **KL-0040-2800** Hydraulic Cylinder 28t, **KL-0040-2812-1** Tension / Compression Spindle, **KL-0039-1002** Mounting adapter, **KL-0040-2812-5** Thrust Nut

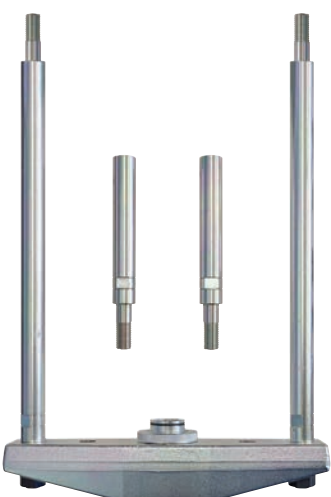
Technical Data:

Inner width 1:	180mm
Inner width 2:	250mm
Inner width 3:	320mm
Inner length 1:	500mm
Inner length 2:	700mm
Load max.:	28t
Cylinder mounting thread:	2 3/4"-16 UN

Scope of Delivery:

KL-1039-111 Press Frame 28t

Part-No.	Description	Qty
KL-1039-1101	Base plate 2 3/4"-16 UN	1
KL-1005-1011	Base plate 2 3/4"-16 UN	1
KL-1039-1102	Pull rod M22	2
KL-1005-1014	Hex collar nut M22	4
KL-1039-1105	Adapter 2 3/4"-16 UNS to 30mm diameter	1
KL-1039-1103	Extension for pull rod M22	2
KL-1039-1106	Extension for thrust nut M22	1
KL-1039-1107	Bearing base	1
KL-1039-7110	Pressure/support sleeve, long, 110/102mm diameter	1
KL-0039-1790	Pressure/support sleeve, long, 90/82mm diameter	1
KL-0039-1770	Pressure/support sleeve, long, 70/62mm diameter	1
KL-0039-1750	Pressure/support sleeve, long, 50/42mm diameter	1
KL-0039-1740	Pressure/support sleeve, long, 40/32mm diameter	1
KL-0039-1730	Pressure/support sleeve, long, 30/22mm diameter	1



12 pcs.



KL-1039-1111

[Code 3275280]

Supplement KL-1005-100 A to HGV Press Frame 28t

Description see **KL-1039-111**.

Required parts from KL-1005-100 A:

KL-1005-1011 Base plate, **2x KL-1005-1014** SK collar nut.

Required drive parts:

KL-0215-35 M28 Hydraulic pump, **KL-0040-2800** Hydraulic cylinder 28t, **KL-0040-2812-1** Traction / pressure spindle, **KL-0040-2812-5** Pressure nut, **KL-0039-1002** Mounting adapter

2.3 Wheel Bearings, Wheel Hubs and Drive Shafts

KL-1005-100 A [Code 3283666] Wheel Hub Puller Kit, HGV

Universally suitable for use on HGV wheel hubs (as well as on wheel hubs with integrated compact wheel bearing) with removable hubcap on axle systems with pitch circle Ø of 8x275mm, and 10x335mm respectively, at front and rear axle systems from BPW, SAF, ZF.

Applications: Mercedes-Benz (Actros [rear axle only]) (Citaro Bus [ZF axle]), MAN (TGA [rear axle only]), Renault, Volvo, Iveco, Scania, DAF etc.

This wheel hub puller kit allows you to professionally pull the wheel hub off the drive axle.

The removal of the wheel hub takes place via the wheel studs. The different pressure pieces are used to provide central support via the axle tube.

The kit allows even heavily seized/stuck wheel hubs to be pulled off with ease. For this, the 28t hydraulic cylinder and hand pump (accessories) are needed in addition.

Necessary Drive Parts (cf. Chapter Drives):

KL-0040-2812-1 Pressure Spindle (M24), **KL-0040-2812-5** Clamping Nut, **KL-0039-1002** Retaining Adaptor, **KL-0040-2800** Hydraulic Cylinder (28t), **KL-0215-35 M28** Hydraulic Pump

Technical Data:

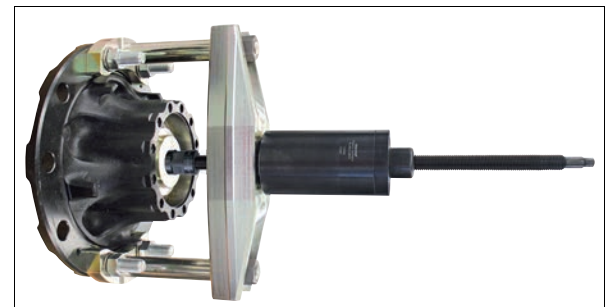
Max. load capacity of base frame:	28t
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Scope of Delivery:

KL-1005-100 A Wheel Hub Puller Kit, HGV

Part No.	Description	Qty
KL-1005-101 A	Base Frame	1
KL-1005-1021	Thrust Piece	1
KL-1005-1022	Press-/Support Sleeve, short, Ø 103/90mm	1
KL-1005-1023	Press-/Support Sleeve, longt, Ø 73/59mm	1

4 pcs.



KL-1005-111 [Code 3257258] Wheel Hub Puller Basic Tool Set

Universally suitable for commercial vehicle wheel hub/bearing units with removable hub cover, for axle systems with a hole circle diameter on the hub of 10x120, 10x122, 10x143, 10x165, 10x168, 12x144, 12x145, 12x164, 12x168, 14x138, 14x144 and for low-loaders on the wheel hub of 10x225. Installed for example for tractors, semi-trailers and low-loaders, such as Mercedes Actros, Antos, Atego, Axor, Econic; Neoplan; MAN F2000, L2000, M2000L, M2000M, TGA, TGM, TGS, TGL, TGX; Renault Magnum, Midlum, Midlum Premium, Midliner CE, M, ME, MS, S, SE; DAF LF45, LF55, LF (Euro 6); Iveco Eurocargo; Volvo FL; VDL Bova bus, city bus; Gigant Protec DNOKH2, Krone; Kögel KTA; low-loader: BPW, Gigant, SAF; SAF Holland axle series SKRLB 9019 W, SKRB 10022; GFA rigid axles; trailers/semitrailers by Kögel, Schmitz Cargobull, Wielton, ZF etc.

The wheel hub puller permits quick and professional removing of wheel hub/bearing units with removable hub caps.

After the hub cap has been removed, the unit is removed via the threaded holes on the hub or, in the case of low-loaders, via the wheel bolts on the wheel hub. Support is provided centrally via the axle tube, using the different thrust discs. The special adapter plate offers universal adaptation to a large number of bolt hole circles that are available on the market.

The 28t hydraulic cylinder, which is available as an accessory, allows even heavily jammed wheel hubs to be removed quickly and easily.

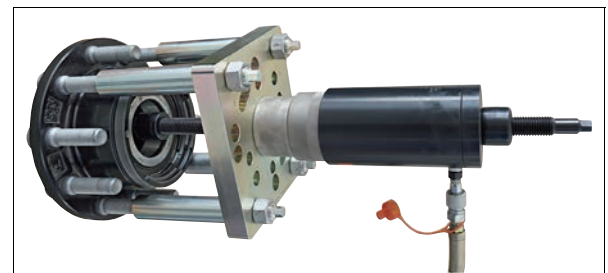
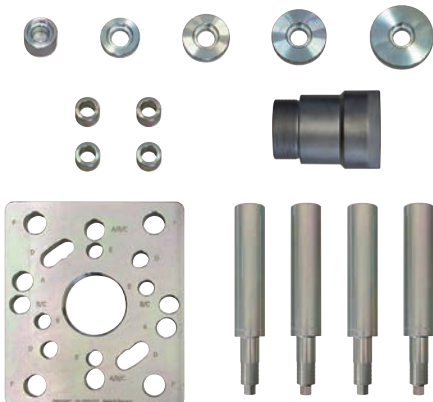
Necessary Drive Parts (cf. Chapter Drives):

KL-0215-35 M28 Hand Pump, **KL-0040-2800** Hydraulic Cylinder 28t, **KL-0040-2812-5** Thrust Nut M24, **KL-0040-2812-1** Pressure Spindle M24

Technical Data:

Max. load:	28t
Hub hole circle:	10x120, 10x122, 10x143, 10x165, 10x168, 12x144, 12x145, 12x164, 12x168, 14x138, 14x144
Wheel hub hole circle for low-loaders:	10x225

15 pcs.



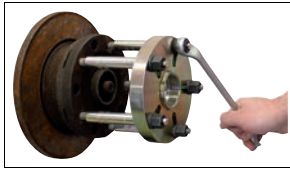
Scope of Delivery:

KL1005-111 Wheel Hub Puller Basic Tool Set

Part No.	Description	Qty
KL-1005-1111	Adapter plate	1
KL-1005-1112	Extension 2 3/4"	1
KL-1005-1113	Adapter spindle low-loader M22x1.5	4
KL-1005-1114	Intermediate sleeve	4
KL-1005-1115	Thrust disc short	1
KL-1005-1116	Thrust disc diameter 48mm	1
KL-1005-1117	Thrust disc diameter 58mm	1
KL-1005-1118	Thrust disc diameter 68mm	1
KL-1005-1119	Thrust disc diameter 78mm	1

2. Axle Repair Tools

2.3 Wheel Bearings, Wheel Hubs and Drive Shafts



12 pcs.



KL-0174-371

[Code 3069680]

Puller Plate Kit, Ford Transit

Applicable to Ford Transit vehicles (model year 2006-2013 + model year 2014-..) equipped with **front-wheel drive**. Suitable for use on front and rear axle (with pitch circle Ø of 160mm).

The hole disc set allows you to quickly and professionally pull a fix wheel hub with brake disc from the kingpin at the rear axle as well as pressing a fix U shaft out of the wheel hub at the front axle. This is for example necessary for renewing the wheel bearing and the brake disc at the rear axle, because these are situated behind the wheel hub. Any work can be carried out directly on the vehicle within a few minutes.

Scope of Delivery: KL-0174-371 Puller Plate Kit, Ford Transit

Part No.	Description	Qty
KL-0174-330	Puller Plate, Size 3	1
KL-0174-767	Puller Bolt, Type M, M14 (l=100)	5
KL-0174-701	Hex Shoulder Nut, M14	5
KL-0174-572	Adaptor, 2 1/4" to 2 3/4", 28t	1

Necessary Drive Parts (cf. Chapter Drives):

KL-0040-2800 Hydr. Cylinder (28t),

KL-0215-35 M28 Hydr. Pump,

KL-0040-2812-1 Pull/Pressure Spindle (M24x590),

KL-0040-2812-5 Pressure Nut (M24),

KL-0174-3701 Pressure Piece (short)



12 pcs.



KL-0174-372

[Code 3292762]

Supplementary Kit for Closed Wheel Bearings, Ford Transit

Fits with the front axle on Ford Trans-it/Tourneo (2006-2014 / 2014 onwards) with rear-wheel drive and a pitch circle Ø of 97.5mm and 111mm of the brake disc fixing screws. Particularly suitable for vehicles with wheel bearing units without centre bore in closed design on the front axle.

This supplementary kit enables quick and professional removal of the bolted wheel bearing unit with wheel hub and brake disc on the front axle, as well as subsequent removal and insertion of the wheel hub on the wheel bearing unit, especially for closed wheel bearings without centre bore. For example, this is required when replacing the wheel bearing and brake discs, as these are located behind the wheel hub. All work can be carried out directly on the vehicle within a few minutes. Time-consuming removal and installation of the wheel bearing housing and a subsequent wheel alignment are not necessary.

Scope of Delivery: Supplementary Kit for Closed Wheel Bearings, Ford Transit

Part No.	Description	Qty
KL-0040-8501 A	Thrust ring	1
KL-0040-8621	Thrust adapter	1
KL-0039-1823-4	Cap screw M10x12	5
KL-0186-9000-3	Cap screw M10x75	5

Required Set of Tools + Drive Parts:

KL-0174-370 Puller Set, Ford Transit,

KL-0040-2800 Hydraulic Cylinder (28t),

KL-0215-35 M28 Hydraulic Pump



13 pcs.



KL-0040-860

[Code 2372290]

Wheel Bearing Tool Set, Ford Transit

Applicable to all Ford Transit/Tourneo (Models 2000-2006 / 2006-2014 / from 2014-..) with brake disc fastening screws, pitch circle diameter 97.5mm and 111mm; also suitable for use on the front axle of Tourneo vehicles with front-wheel drive and rear-wheel drive respectively.

The wheel bearing tool set enables wheel bearings on the front axle to be removed and installed quickly and without any trouble.

To replace a brake disc or a wheel bearing, it is usually necessary to pull the wheel bearing along with the hub and brake disc from the steering knuckle.

Thanks to this tool, the removal and installation of the wheel bearing can be carried out in situ on the vehicle within just a few minutes, without having to dismantle the suspension strut.

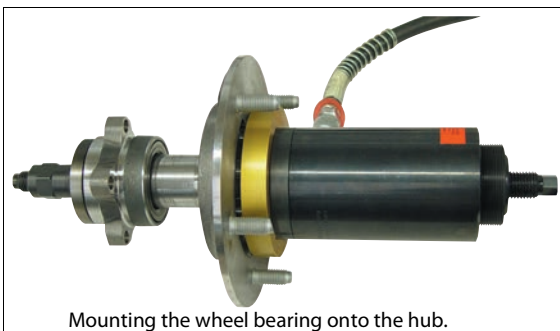
Necessary Drive Parts (cf. Chapter Drives):

KL-0040-2800 Hydraulic Cylinder (28t), **KL-0215-35 M28** Hydraulic Pump,

KL-0040-2812-1 Pull/Pressure Spindle (M24x590), **KL-0040-2812-2** Clamping Nut

Scope of Delivery: KL-0040-860 Wheel Bearing Tool Set, Ford Transit

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



Mounting the wheel bearing onto the hub.

2.3 Wheel Bearings, Wheel Hubs and Drive Shafts

KL-0040-861 [Code 2700972] Upgrade Kit, Ford Transit Rear Axle

Fits with the front axle on Ford Transit/Tourneo (2000-2006 / 2006-2014 / 2014 onwards) with front-wheel drive and a pitch circle Ø of 160mm of the brake disc fixing bolts.

The supplementary kit enables the wheel hub bearing unit on the brake disc of the rear axle to be forced off quickly and professionally. For example, this is required when replacing the wheel bearing and brake discs, as these are located behind the wheel hub.

Required Tool Kit + Drive Parts:

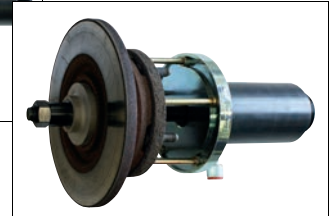
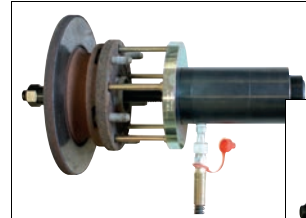
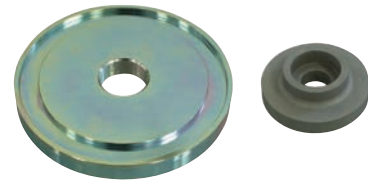
KL-0040-860 Wheel Bearing Tool Set, Ford Transit, **KL-0040-2800** Hydr. Cyl. (28t), **KL-0215-35 M28** Hydraulic Pump, **KL-0040-2812-1** Pull/Pressure Spindle (M24x590), **KL-0040-2812-2** Clamping Nut

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 A	Pressure Ring, Ø 210mm	1

2 pcs.



KL-0040-862 [Code 3292770] Upgrade Kit Ford Transit; Closed Wheel Bearings

Fits with the front axle on Ford Transit/Tourneo (2006-2014 / 2014 onwards) with rear-wheel drive and a pitch circle Ø of 97.5mm and 111mm of the brake disc fixing bolts. Particularly suitable for vehicles with wheel bearing units without centre bore in closed design on the front axle.

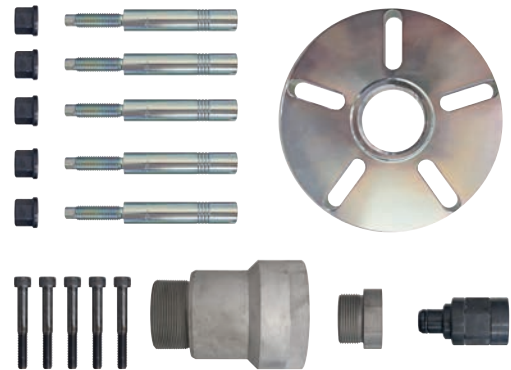
This supplementary kit enables the removal of the bolted wheel bearing unit with wheel hub and brake disc on the front axle, especially for wheel bearings without centre bore in closed design, and subsequently the removal and pressing in of the wheel hub on the wheel bearing unit. Required, for example, when replacing the wheel bearing and brake discs, as these are located behind the wheel hub.

Scope of Delivery:

KL-0040-862 Upgrade Kit Ford Transit; Closed Wheel Bearings

Part No.	Description	Qty
KL-0174-330	Hole disc size 3 (5-hole)	1
KL-0040-2812-5	Thrust nut M24	1
KL-0040-8621	Thrust adapter	1
KL-0174-572	Adapter 2¼" to 2¾"	1
KL-0174-764 A	Draw bolt type M, M14x1.5mm	5
KL-0174-701	SK collar nut M14	5
KL-0186-9000-3	Cap screw M10x75	5

19 pcs.



Required Set of Tools + Drive Parts:

KL-0040-860 Wheel Hub Tool Set; Ford Transit, **KL-0040-2800** Hydraulic Cylinder 28t, **KL-0215-35 M28** Hydraulic Pump, **KL-0040-2812-1** Draw/Thrust Spindle M24x590, **KL-0040-2812-2** Tensioning Nut

KL-0041-800 [Code 3087263] Wheel Bearing Tool Set, Iveco Daily

Applicable to the front axle of Iveco Daily VI vehicles (from 2014 onwards) with rear-wheel drive.

Used in conjunction with an appropriate workshop press, the **KL-0041-800** wheel bearing tool set allows for the quick and professional removal and installation of wheel hubs as well as wheel bearing units on the front axle of Iveco Daily vehicles.

Recommended Accessory: KL-0041-803 Holding Fixture

Technical Data:

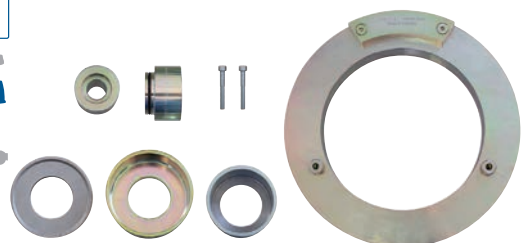
Max. load capacity:	17t
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Scope of Delivery:

KL-0041-800 Wheel Bearing Tool Set, Iveco Daily

Part No.	Description	Qty
KL-0041-801	Base Plate	1
KL-0041-802	Sleeve Set	1
KL-0041-7106	Cheese Head Screw, M6x45	2

8 pcs.



2. Axle Repair Tools

2.3 Wheel Bearings, Wheel Hubs and Drive Shafts

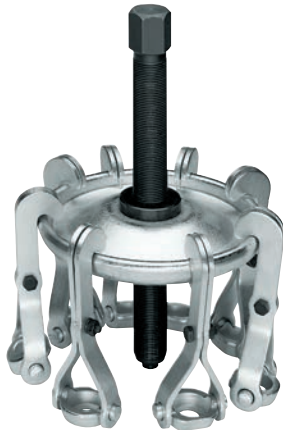


KL-0041-803 Holding Fixture

[Code 3089355]

Applicable to the front axle of Iveco Daily VI vehicles with rear-wheel drive (from 2014 onwards).

The **KL-0041-803** holding fixture allows the wheel hub to be professionally counter-held while loosening/tightening the central fastening nut. The holding fixture needs to be attached to a workbench suitable for this purpose.



1.62/8 Wheel Hub Puller

[Code 8026030]

- For hole pitch diameters between 150 and 350mm
- With wheel stud protection using rotating nut apertures that always lie flat to the hub for Ø 22mm and suitable reduction bushing Ø 14 and 18mm
- 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 hook

Technical Data:

Number of hooks:	8
Spindle:	G1x310
Drive Size (waf):	36mm
Weight:	12.6kg



KL-0041-510 Wheel Bearing Tool Kit, Mercedes-Benz Vito/Viano/Sprinter, VW Crafter

[Code 3283690]

Designed for the front axle of Mercedes-Benz Vito/Viano (W639), Sprinter (906), and VW Crafter (2E/2F) vehicles equipped with rear-wheel drive.

For removing and installing wheel hub bearing units at the front axle in situ on the vehicle.

Due to the particular design of these wheel hub bearing units, conventional removal and installation procedures are no longer feasible. This is because the wheel hub comes without a centre bore and, in addition, covers the outer race of the wheel bearing.

The unique composition and design of this tool kit allows the professional replacement of wheel hub bearing units to be performed in situ on the vehicle. When installing a wheel hub bearing unit, the tool ensures that the pressure is evenly exerted on the bearing outer race only. This eliminates the risk of damaging the wheel bearing.

Necessary Drive Parts (cf. Chapter Drives):

KL-0040-2500 Hydraulic Cylinder (17t), **KL-0215-35 M25** Hydraulic Pump

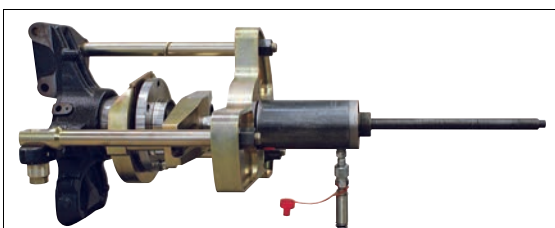
Tool Storage System:

KL-0041-5090 Plastic Storage Case

Scope of Delivery:

KL-0041-510 Wheel Bearing Tool Kit, MB Vito/Viano/Sprinter, VW Crafter

Part No.	Description	Qty
KL-0041-501	Wheel Bearing Tool Kit without Cylinder	1
KL-0041-502	Pull/Pressure Plate Kit with Bridge, for Bearing Ø 96mm	1
KL-0041-5030	Upgrade Kit, Pull/Pressure Plate for Bearing-Ø 92mm	1



2.3 Wheel Bearings, Wheel Hubs and Drive Shafts

KL-1021-12 (Code 2883635) Oil Drain Pan for Drive Axle

Universally suitable for use on HGV full-floating axles as found on Mercedes, MAN, Volvo, DAF, Scania, Iveco commercial vehicles/trucks etc.

Temperature- and chemical-resistant oil drain pan for collecting waste oil when performing repair work on axles or when removing full-floating axles/drive shafts. The drain pan features a lateral spout to allow waste oil to be safely poured into a suitable container for adequate disposal.

Technical Data:

Suitable for temperature range of:	-40°C to +80°C
For rim-Ø:	min. 350mm
Capacity:	3 litres



KL-1020-24 (Code 2450550) 6-Pin Lock Nut Socket, Ø 87mm, with 2 Guide Tubes

Applicable to A 970 353 00 26 lock nuts found in Mercedes vehicles; e.g. on ATEGO Pinion Axles: HL2/43, 741.980, 742.503/504/505/506/509, 744.8, 745.8, 742.550.

Alternative tool: W 742 589 01 07 00

Ideal for loosening and tightening lock nuts, for example those on front and rear axles as well as on gearbox and differential flanges.

Advantages:

- Substantial time and cost savings.
- Universal application.

Recommended Accessory:

KL-4007-411 Swivel Head Breaker Bar, 980mm,
8571-01 Torque Wrench, 520-1,000Nm

Scope of Delivery:

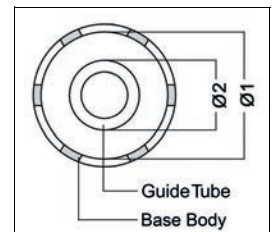
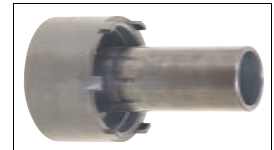
KL-1020-24 6-Pin Lock Nut Socket, Ø 87mm, with 2 Guide Tubes

Part No.	Description	Qty	Ø 1 (mm)	Ø 2 (mm)	Length (mm)	Pin	
						Number	Width
KL-1020-240	Base Body	1	87		65	6	10mm
KL-1020-2908	Guide Tube	1		49	150		
KL-1020-2909	Spacer Tube	1		57	140		

3 pcs.



3/4"



Modular System:

Allows base tool and guide tubes to be combined universally. (observe connection thread)

Technical Data:

Drive:	3/4"
Connection thread:	M48x1.5
Weight:	3.2kg

KL-1020-38 (Code 1919202) 6-Pin Lock Nut Socket, Ø 117mm, with Guide Tube

Applicable to A 946 356 02 26 lock nuts found in Mercedes vehicles; e.g. on ACTROS rear axles HL/ HL8

Alternative tool: W 748 589 00 07 00

Ideal for loosening or tightening lock nuts, for example those on front and rear axles as well as on gearbox and differential flanges.

Advantages:

- Substantial time and cost savings.
- Universal application.

Recommended Accessory:

KL-4007-411 Swivel Head Breaker Bar, 980mm,
8571-01 Torque Wrench, 520-1,000Nm

Scope of Delivery:

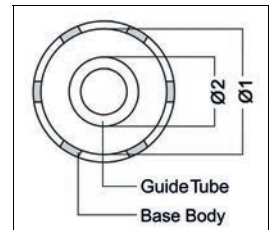
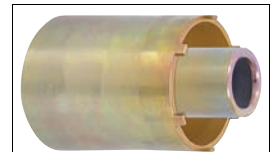
KL-1020-38 6-Pin Lock Nut Socket, Ø 117mm, with Guide Tube

Part No.	Description	Qty	Ø 1 (mm)	Ø 2 (mm)	Length (mm)	Pin	
						Number	Width
KL-1020-380	Base Body	1	117		180	6	9.8mm
KL-1020-3911	Guide Tube	1		60	195		

2 pcs.



3/4"



Modular System:

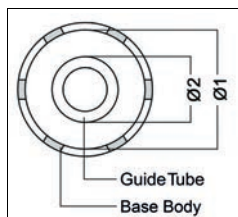
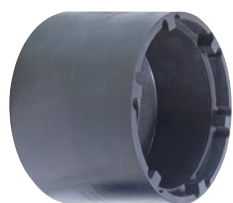
Allows base tool and guide tubes to be combined universally. (observe connection thread)

Technical Data:

Drive:	3/4"
Connection thread:	M56x1.5
Weight:	6.8kg

2. Axle Repair Tools

2.3 Wheel Bearings, Wheel Hubs and Drive Shafts



2 pcs.



3/4"

KL-1020-40

(Code 2451123)

6-Pin Lock Nut Socket, Ø 91mm, with Guide Tube

Applicable to Mercedes and MAN, e.g. Mercedes Atego, Vans and Buses with grooved nut (A976 356 00 26). The base body can be used without the guide tube on the following vehicles: e.g. MAN Bus (Type A, J, P, R) and HGV/lorries (Type H, L, M, N and 1) with grooved nut (81.90620-0086).

Alternative tool: W 745 589 02 07 00, 80.99603-0253

Ideal for loosening or tightening lock nuts, for example those on front and rear axles as well as on gearbox and differential flanges.

Advantages:

- Substantial time and cost savings.
- Universal application.

Recommended Accessory:

KL-4007-411 Swivel Head Breaker Bar, 980mm,

8571-01 Torque Wrench, 520-1,000Nm

Scope of Delivery: KL-1020-40 6-Pin Lock Nut Socket, Ø 91mm, with Guide Tube

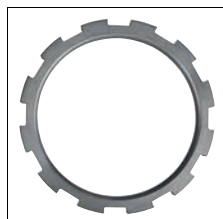
Part No.	Description	Qty	Ø 1 (mm)	Ø 2 (mm)	Length (mm)	Pin	
						Number	Width
KL-1020-400	Base Body	1	91		98	6	7.5mm
KL-1020-3905	Guide Tube	1		58	110		

Modular System:

Allows base tool and guide tubes to be combined universally. (observe connection thread)

Technical Data:

Drive:	3/4"
Connection thread:	M56x1.5
Weight:	3.2kg



3/4"

KL-1020-230 A

(Code 3403165)

12-Pin Lock Nut Socket, Ø 117mm

Fits Mercedes commercial vehicles with locknut A9423560026 / A9423560126. For example, installed on Actros, Arocs, Atego, Axor outer planetary axles with drum brake; for outer planetary rear axles (Europe axles) 10 t + 13 t: HL7/1, HL7/2, HL7/18, HO7/8, HO7/9, HL7/0, HL7/015, HL7/021, HL7/3, HD7/2, HD7/19DG, HD7/016DG; outer planetary front axles 7 t: AL7/1 and trailing axles NR7/4.

Alternative tool: 80.99603-6008

Ideal for loosening or tightening lock nuts, for example those on front and rear axles as well as on gearbox and differential flanges.

Recommended Accessory:

KL-4007-411 Swivel Head Breaker Bar, 980mm, 8571-01 Torque Wrench, 520-1,000 Nm

Scope of Delivery: KL-1020-40 6-Pin Lock Nut Socket, Ø 91mm, with Guide Tube

Part No.	Description	Qty	Ø 1 (mm)	Length (mm)	Pin	
					Number	Width
KL-1020-400	Lock Nut Socket	1	102	140	12	11.4mm

Modular System:

Allows base tool and guide tubes to be combined universally. (observe connection thread)

Technical Data:

Drive:	3/4"
Weight:	7.5kg



2 pcs.



3/4"

KL-1020-41 A

(Code 2691809)

6-Pin Lock Nut Socket, Ø 117mm

Applicable to 81.90620-0092 lock nuts found in MAN vehicles; e.g. on TGA rear axle HY 1350.

Alternative tool: 80.99603-6008

Ideal for loosening and tightening lock nuts as found on front and rear axles.

Modular System:

Allows base tool and guide tubes to be combined universally. (observe connection thread)

Advantages:

- Substantial time and cost savings.
- Universal application.

Recommended Accessory:

KL-4007-411 Swivel Head Breaker Bar, 980mm,

8571-01 Torque Wrench, 520-1,000Nm

Scope of Delivery: KL-1020-41 A 6-Pin Lock Nut Socket, Ø 117mm

Part No.	Description	Qty	Ø 1 (mm)	Ø 2 (mm)	Length (mm)	Pin	
						Number	Width
KL-1020-410 A	Base Body	1	117		111	6	11.6mm
KL-1020-3913	Guide Tube	1		66.5	175		

Technical Data:

Drive:	3/4"
Connecting thread:	M56x1.5
Weight:	7.5kg

2.3 Wheel Bearings, Wheel Hubs and Drive Shafts

KL-1020-42 (Code 3221385) 6-Pin Lock Nut Socket (with extension), Ø 122.5mm, ZF axles

Applicable to ZF axles (Ø 125mm / Ø 139mm) with lock nuts A 000 990 32 60 as found in Mercedes vehicles.

Alternative tools: 5870 401 146, W 400 589 01 07 00

For loosening and tightening the axle nut.

Recommended Accessory:

KL-4007-411 Swivel Head Breaker Bar, 980mm,
8571-01 Torque Wrench, 520-1,000Nm

Technical Data:

External Ø:	138.5mm
Internal Ø:	122.5mm
Number of pins:	6
Pin width:	10.5mm
Drive (lock nut socket):	1"
Drive (extension):	3/4" to 1"
Weight:	5.3kg

Scope of Delivery:

KL-1020-42 6-Pin Lock Nut Socket, Ø 122.5mm, ZF axles

Part No.	Description	Qty
KL-1020-4201	Base Body	1
KL-1020-4202	Extension, Ø 38mm, 3/4"-1"	1
KL-1020-4203	Guide Plate	1
KB 2175 (Code 6657700)	Locking Pin	1
KB 2170 (Code 6657620)	Retaining Ring	1

5 pcs.



3/4"

1"



KL-1023-9095 (Code 3093107) Axle Nut Socket, Size 95mm waf, special-profile with rounded-corner hexagon

Applicable to Mercedes-Benz axle nuts with 95mm waf size and a special profile with rounded-corner hexagon. For example, found on Mercedes-Benz Discos Trailer axles (from 05/2000 onwards) with hub c/w bearings etc.

The ideal tool for the professional loosening and tightening of axle nuts having a special profile with rounded-corner hexagon.

Comparable competitor products that are currently available on the market come with a conventional hex profile. With these tools, however, there is a risk of the socket slipping off the nut and causing damage to the nut and other parts.

Thanks to its special profile featuring a hexagon with rounded corners, the **KL-1023-9095** axle nut socket ensures that the nut is securely held, thus allowing even heavily seized axle nuts to be loosened and tightened without risk of damage.

Recommended Accessory:

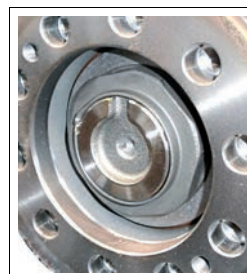
KL-4007-411 Swivel Head Breaker Bar, 980mm,
8571-01 Torque Wrench, 520-1,000Nm

Technical Data:

Size (waf):	95mm
Special profile:	rounded-corner hexagon
Drive:	3/4"



3/4"



2. Axle Repair Tools

2.3 Wheel Bearings, Wheel Hubs and Drive Shafts



KL-1023-...

Axle Nut Socket, 65mm waf, bi-hex

This tool allows for the professional loosening and tightening of hub caps and axle nuts.

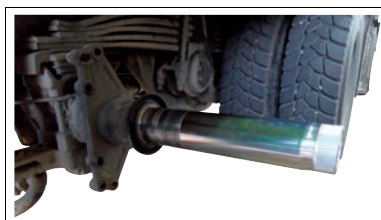
Recommended Accessories:

8581-01 Torque Wrench, 600-1,500Nm

Technical Data:

Profil:	65mm
Drive:	1"
Height:	75mm

Part No.	Description	Suitable for	Code
KL-1023-4065	Axle Nut Socket (waf) 65mm	Applicable to IVECO HGVs/commercial vehicles (Axle Nut 7180039).	3134857
KL-1023-4080	Axle Nut Socket (waf) 80mm	Applicable to DAF, Mercedes, Renault and Volvo HGVs/commercial vehicles. For example, Mercedes vehicles with A 975 332 00 72 lock nuts Alternative tools: 999-6970	3135845
KL-1023-4085	Axle Nut Socket (waf) 85mm	Applicable to IVECO HGVs/commercial vehicles. Alternative tools: 99357071, 99357076	3135853
KL-1023-4090	Axle Nut Socket (waf) 90mm	Applicable to IVECO HGVs/commercial vehicles. Alternative tools: 99355177	3134865
KL-1023-4095	Axle Nut Socket (waf) 95mm	Applicable to IVECO, Renault and Volvo HGVs/commercial vehicles as well as to K��gel axle systems. Alternative tools: 99355182, 999-6735	3221199
KL-1023-4105	Axle Nut Socket (waf) 105mm	Applicable to DAF, IVECO, Renault and Volvo HGVs/commercial vehicles. For example, suitable for vehicles with 7184036 lock nuts (IVECO) or with 1076335 lock nuts (VOLVO). Alternative tools: 1329466, 99355180, 999-8457	3134881
KL-1023-4115	Axle Nut Socket (waf) 115mm	Applicable to IVECO HGVs/commercial vehicles. Alternative tools: 99355167	3135861



KL-1027-100

(Code 2803135)

Wheel Bearing Centring Sleeve,   105mm

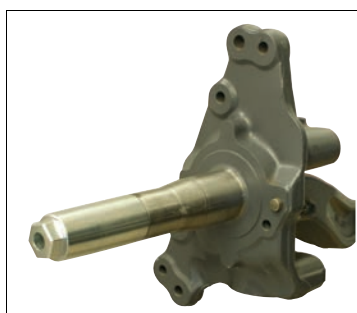
Applicable to MAN HY 1350 rear axles, e.g. at TGA, TGX etc.

Alternative tool: 80.99606-0534

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 any risk of jamming.

Technical Data:

Connection thread:	M100x1.5mm
Outer �:	105mm
Length:	360mm



KL-1027-4560

(Code 2672588)

Wheel Bearing Centring Sleeve,   60mm

Applicable to the Mercedes front axle 730.714 F, 730.715 F, 730.719 F, 730.720 S, 730.026, 730.027, 730.028, e.g. on Atego etc.

Designed to install compact wheel bearings with wheel hub. Allows the user to slide the bearing on the axle tube - accurately and without any risk of jamming.

Technical Data:

Connection thread:	M45x1.5
Size (waf):	41mm
Length:	145mm
External �:	60mm

2.3 Wheel Bearings, Wheel Hubs and Drive Shafts

KL-1027-4582 (Code 2991519) Wheel Bearing Centring Sleeve, Ø 82mm

Applicable to SAF axles both with right-hand and left-hand thread.

Designed to install compact wheel bearings with wheel hub. Allows the user to slide the bearing on the axle tube - accurately and without any risk of jamming.

Technical Data:

Connection thread:	M75x1.5 (right- and left-hand thread)
Length:	150mm
External Ø:	82mm



KL-1027-4588 (Code 2991527) Wheel Bearing Centring Sleeve, Ø 88mm

Applicable to SAF axles both with right-hand and left-hand thread.

Designed to install compact wheel bearings with wheel hub. Allows the user to slide the bearing on the axle tube - accurately and without any risk of jamming.

Technical Data:

Connection thread:	M75x1.5 (right- and left-hand thread)
Length:	150mm
External Ø:	88mm



KL-1027-7578 (Code 2746026) 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 any risk of jamming.

Technical Data:

Connection thread:	M75x1.5
Size (waf):	41mm
Length:	186mm
External Ø:	78mm



KL-1027-7582 (Code 2746042) 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 bearing on the axle tube - accurately and without any risk of jamming.

Technical Data:

Connection thread:	M75x1.5
Size (waf):	41mm
Length:	197mm
External Ø:	82mm



KL-1025-105 (Code 3089304) Shaft Seal Installation Tool, Ø 105mm

Applicable to inner and outer shaft seals both with and without pole wheel as found on MAN TGA, TGM, TGS and TGX rear axles.

Alternative tools: 80.99604-0225, 80.99604-0226

The **KL-1025-105** shaft seal installation tool allows for the professional installation of both the outer shaft seal and the inner shaft seal with pole wheel at the rear axle. Faulty mounting of the shaft seal may lead to leakage and ABS failure resulting in loss of braking power.

Recommended Accessory:

248 ST-50 Recoilless Hammer

Technical Data:

Ø:	105mm
Weight:	3kg

3 pcs.



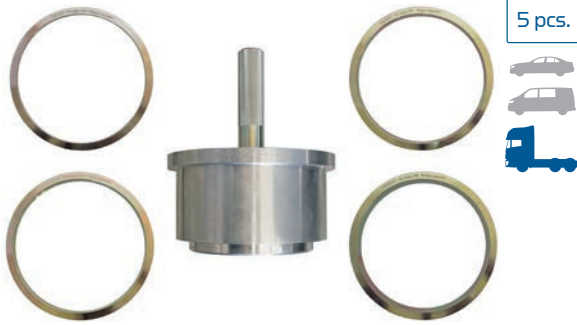
Scope of Delivery:

KL-1025-105 Shaft Seal Installation Tool, Ø 105mm

Part No.	Description	Qty
KL-1025-1051	Thrust Ring, Ø 105mm, outer shaft seal	1
KL-1025-1052	Thrust Ring, Ø 105mm, inner shaft seal	1
KL-1025-1053	Tool Handle	1

2. Axle Repair Tools

2.3 Wheel Bearings, Wheel Hubs and Drive Shafts



KL-1025-175 A

[Code 3282708]

Shaft Seal Installation Tool, Ø 175mm

Fits Mercedes ACTROS and ATEGO rear axle shaft seal rings (including ACTROS with 11.5 t; 13 t, and 16 t AP axles).

(For example, ACTROS rear axle MB nos. - 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 9 t rear axle MB nos. - 770.003_F, - 770.002_F, - 770.000_F.)

Alternative tool: W 748 589 04 15 00

The sealing ring inserter **KL-1025-175 A** is required for the professional installation of the sealing rings on Mercedes ACTROS and ATEGO rear axles.

Note:

- Rings **KL-1025-1752 A** and **KL-1025-1753 A** are required for rear axle series **746.21** and **748.59** with double seals.
- Rings **KL-1025-1754** and **KL-1025-1755** are required for AP axles.

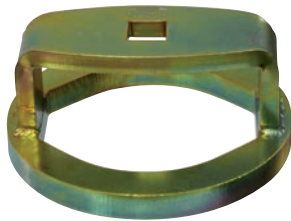
Recommended Accessories: **248 ST-50** Plastic Hammer

Technical Data:

Ø:	175mm
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Scope of Delivery: KL-1025-175 A Shaft Seal Installation Tool

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-1025-1754	Ring, 20mm	1
KL-1025-1755	Ring, 36mm	1



3/4"

KL-1022-110 A

[Code 2479583]

Hub Cap and Axle Nut Socket

For hub caps with oval 110mm waf size (ECO- und ECO^{Plus} axles).

Alternative tool: 03.364.29.03.0

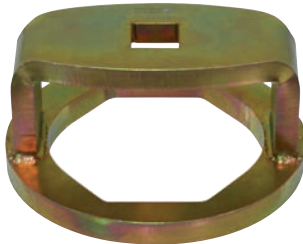
The socket facilitates the professional loosening and tightening of flat oval hub caps and axle nuts as found on BPW axles.

Recommended Accessory:

KL-4007-411 Swivel Head Breaker Bar, 980mm, **8571-01** Torque Wrench, 520-1,000Nm

Technical Data:

Size:	waf 110mm
Drive:	3/4"



3/4"

KL-1022-120 A

[Code 2479591]

Hub Cap and Axle Nut Socket

For hub caps with oval 120mm waf size (ECO axle).

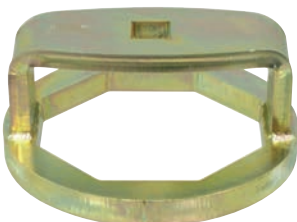
The socket facilitates the professional loosening and tightening of flat oval hub caps and axle nuts as found on BPW axles.

Recommended Accessory:

KL-4007-411 Swivel Head Breaker Bar, 980mm, **8571-01** Torque Wrench, 520-1,000Nm

Technical Data:

Size (waf):	120mm
Drive:	3/4"



3/4"

KL-1023-080

[Code 2713942]

Hub Cap and Axle Nut Socket, 80mm waf, octagonal

Applicable to Scania 4-Series HGVs/trucks (models from 1996 onwards/from 16t onwards); e.g., to AM front axles (AM 740, AMA 740, AM 740D, AMA 740D).

This tool allows for the easy and professional loosening and tightening of hub caps and axle nuts.

Recommended Accessory:

KL-4007-411 Swivel Head Breaker Bar, 980mm, **8571-01** Torque Wrench, 520-1,000Nm

Technical Data:

Size (octagon):	80mm
Drive:	3/4"
Weight:	1.4kg

2.3 Wheel Bearings, Wheel Hubs and Drive Shafts

KL-1023-100 (Code 2714027)

Hub Cap and Axle Nut Socket, 100mm waf, octagonal

Applicable to Scania 4-Series trucks (models from 1996 onwards/from 16t onwards), e.g., to AD/ADA (1100, 1300) rear axles .

This tool allows for the easy and professional loosening and tightening of hub caps and axle nuts.

Recommended Accessory:

KL-4007-411 Swivel Head Breaker Bar, 980mm, **8571-01** Torque Wrench, 520-1,000Nm

Technical Data:

Size (octagon):	100mm
Drive:	3/4"
Weight:	2.6kg



KL-1023-115 (Code 2685752)

Hub Cap and Axle Nut Socket, 115mm waf, octagonal

Applicable to Volvo FH 12 and FH 16 (models from 1993 onwards/16t onwards), as well as Renault Premium DXI, front axle.

Alternative tools: 999-6773

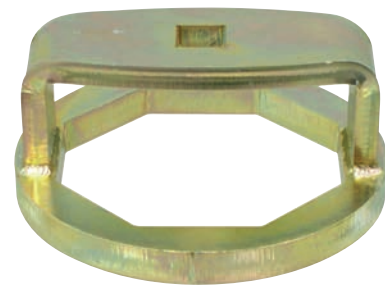
This tool allows for the easy and professional loosening and tightening of hub caps and axle nuts.

Recommended Accessory:

KL-4007-411 Swivel Head Breaker Bar, 980mm, **8571-01** Torque Wrench, 520-1,000Nm

Technical Data:

Size (octagonal):	115mm
Drive:	3/4"
Weight:	2.64kg



KL-1023-2085 (Code 3036367)

Hub Cap and Axle Nut Socket, 85mm waf, hexagonal

Applicable to SAF Holland axle systems.

This tool allows for the professional loosening and tightening of wheel capsules/axle nuts.

Technical Data:

Size:	85mm waf/hexagonal
Drive:	36mm waf



KL-1023-2095 (Code 2451913)

Hub Cap and Axle Nut Socket, 95mm waf, octagonal

Applicable to BPW axle systems, e.g. as found on BPW EH.. (6.5-9t); EH.. (6t); EH.. (8-9t); ZR.. (8-9t); H.. (6.5-9t) Konv. / ECO; K.. (8-9t) Konv. / ECO; N.. (6-9t) Konv. / ECO; K.. (6.5t) Konv. / ALU hub; H.. (6-9t) oil lub.

This tool allows for the easy and professional loosening and tightening of hub caps and axle nuts.

Recommended Accessory:

KL-4007-411 Swivel Head Breaker Bar, 980mm,
8571-01 Torque Wrench, 520-1,000Nm

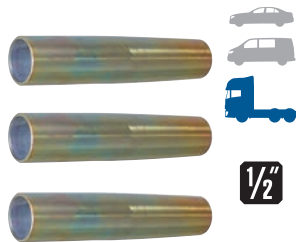
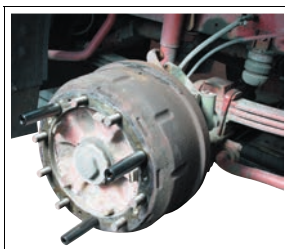
Technical Data:

Size (octagon):	95mm (waf)
Drive:	3/4"
Weight:	2.27kg



2. Axle Repair Tools

2.3 Wheel Bearings, Wheel Hubs and Drive Shafts



KL-1028-...

Set of Centring Sleeves

The centring sleeve set allows for the easy and trouble-free fitting of HGV wheels. Any standard 1/2" reversible ratchet can be used to screw on and unscrew the centring sleeves.

Recommended Accessory:

1993 U-20 Reversible Ratchet, 1/2"

KL-1028-2226

(Code 1805134)

Set of Centring Sleeves

Applicable to DAF, MAN, Mercedes, Ford, Renault, Scania, Volvo.

Technical Data:

For rim hole Ø:	26mm
For bolt thread:	M22x1.5

KL-1028-2232

(Code 1901753)

Set of Centring Sleeves

Suitable for use on aluminium rims found on Mercedes, MAN.

Technical Data:

For rim hole Ø:	32mm
For bolt thread:	M22x1.5

KL-1028-7826

(Code 1901761)

Set of Centring Sleeves

Suitable for use on aluminium rims found on Scania.

Technical Data:

For rim hole Ø:	26mm
For bolt thread:	7/8"-11BSF

KL-1028-1821

(Code 1805126)

Set of Centring Sleeves

Applicable to DAF, Unimog, Iveco, MAN, Renault, Volvo.

Technical Data:

For rim hole Ø:	21mm
For bolt thread:	M18x1.5

KL-1028-2023

(Code 2452243)

Set of Centring Sleeves

Applicable to Mercedes.

Technical Data:

For rim hole Ø:	23mm
For bolt thread:	M20x1.5

KL-1028-2026

(Code 2452286)

Set of Centring Sleeves

Applicable to Scania.

Technical Data:

For rim hole Ø:	26mm
For bolt thread:	M20x1.5



5 pcs.



KL-1029-20 K

(Code 2883627)

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 with the **KL-0215-35** hydraulic hand pump (accessory), thus allowing for the safe loosening/removal of stuck wheels/rims 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.

Scope of Delivery:

- Hydraulic Cylinder
- Coupling half 1/4"NPT (cylinder-side)
- Adaptor 3/8"NPT to 1/4"NPT
- Support Plate
- Thrust Piece 1 (25mm long)
- Thrust Piece 2 (50mm long)
- Thrust Piece 3 (75mm long)

Required Drive Parts:

KL-0215-35 M28 or M25 Hydraulic Pump

Technical Data:

Maximum load capacity of the hydr. 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

2.3 Wheel Bearings, Wheel Hubs and Drive Shafts

KL-0100-6..

Socket, 32mm waf, 400mm, 3/4"

Suitable for wheel nuts found on HGVs/commercial vehicles.

Very useful tool for loosening and tightening wheel nuts on HGVs/commercial vehicles.

Recommended Accessory:

KL-4007-411 Swivel Head Breaker Bar, 980mm, **8571-01** Torque Wrench, 520-1,000 Nm

KL-0100-632

(Code 2874229)

Socket, 32mm waf

Technical Data:

Size (waf):	32mm
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KL-0100-633

(Code 2874237)

Socket, 33mm waf

Technical Data:

Size (waf):	33mm
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3/4"



8563-10

(Code 7691500)

Torque Wrench DREMOMETER

- Controlled screw tightening in the most common range of 155-760Nm / 115-560 lbf-ft
- Classified according to DIN EN ISO 6789-2:2017 Type II Class A, incl. traceable test certificate
- 3/4" square drive with pin-locking mechanism DIN 3120 - B 20, ISO 1174
- Dual scale with a scale graduation of 10Nm and 10 lbf-ft

3/4"



KL-0100-...

Torque-Limiting Socket, HGV

This AccuTorq Torque-Limiting Socket is designed for use with an impact wrench. It works by absorbing excess torque generated by the impact wrench between the 1" drive and the hexagon end into the torsion bar, once the correct torque has been reached.

The AccuTorq Torque-Limiting Socket ensures that no torque greater than the torque value indicated on the socket will be transmitted.

Technical Data:

Drive:	1"
Length:	305mm



1"



KL-0100-36

(Code 1792857)

Torque-Limiting Socket, Size (waf) 32mm/600Nm

KL-0100-37

(Code 1790072)

Torque-Limiting Socket, Size (waf) 32mm/650Nm

KL-0100-41

(Code 2382873)

Torque-Limiting Socket,
Size (waf) 32mm/650Nm

8581-01

(Code 2311267)

Torque Wrench DREMOMETER

- Controlled screw tightening in the range from 600-1,500Nm
- Classified according to DIN EN ISO 6789-2:2017 Type II Class A, incl. traceable test certificate
- 1" square drive with pin-locking mechanism DIN 3120 - B 25, ISO 1174
- Single scale with a scale graduation of 25Nm

1"





1

Clockwise tightening

- ▶ Controlled clockwise tightening; 3/4" output drive; plus clockwise rotating 3/4" add-on ratchet

2

DIN Norm

- ▶ Classified as per DIN EN ISO 6789-2:2017; adjusted to a maximum permissible $\pm 3\%$ deviation and thus with a greater precision than the standard-stipulated $\pm 4\%$

3

Test certificate

- ▶ Torque wrench in the 155-760 N-m tightening range with test certificate; with extension tube

4

Precision

- ▶ Vernier scale - resolution 1.0 N-m

**GEDORE ESSENTIALS**

DREMOMETER SET 8563-N-05

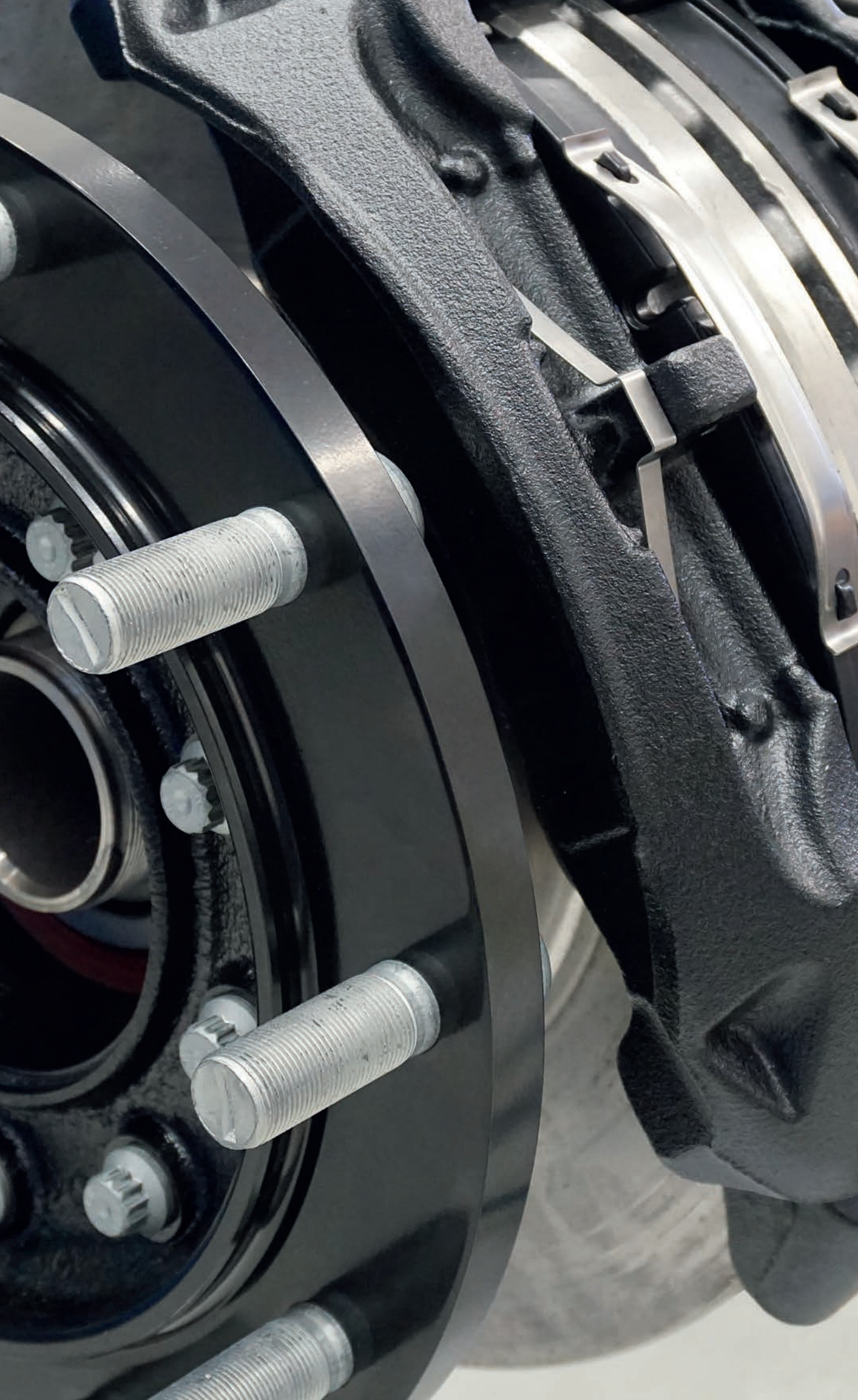
The GEDORE 3/4" torque wrench with extension tube and with a DIN EN ISO 6789:2017-based test certificate permits controlled screw tightening from 155 to 760 N-m and is an optimum drive tool for socket wrench sets. The easy-to-operate torque setting to be fixed to the handle end ensures **precision work**.

Repetition-accurate and precise - thanks to **vernier scale** with magnifying glass and a 1/10 display from which the set torque value can be read off at a glance

Controlled retightening with fixed 3/4" output drive together with clockwise-rotating 3/4" add-on ratchet.

With a $\pm 3\%$ **working accuracy tolerance** from the scale value set, GEDORE DREMOMETER lie above the $\pm 4\%$ requirements of DIN EN ISO 6789-2:2017.





3. Brake Service/Repairs





6 pcs.



3/4"

KL-1070-11

(Code 3281590)

Set of Hex Slogging Spanners

Suitable for use on brake calliper bolts with hex profile as found at the front and rear axle of: Mercedes Benz Atego and Actros; MAN TGL; DAF 105 and DAF 106; Renault 12t; Volvo; Iveco Stralis, Daily and Eurocargo; Scania as well as on Kässbohrer buses.

The hex slogging spanner set is designed to ease the loosening/tightening of brake calliper bolts, even in areas difficult to access. The slogging spanners feature a 3/4" square socket and are engraved with a torque conversion formula (necessary due to the extended lever), thus, allowing the user to tighten brake calliper bolts, with the aid of a suitable 3/4" torque wrench, quickly and easily according to manufacturer specifications.

Recommended Accessory:

8563-10 Torque Wrench, 155-760Nm,
600 H-2000 Engineer's Hammer, 2,000g

Technical Data:

Waf size:	18mm, 22mm, 24mm, 26mm, 27mm, 30mm
Profile:	Hex
Square socket:	3/4"

Scope of Delivery:

KL-1070-11 Set of Hexagonal Slogging Spanners

Part No.	Description	Qty
KL-1070-1118	Hex Slogging Spanner, 18mm waf	1
KL-1070-1122	Hex Slogging Spanner, 22mm waf	1
KL-1070-1124	Hex Slogging Spanner, 24mm waf	1
KL-1070-1126 B	Hex Slogging Spanner, 26mm waf	1
KL-1070-1127	Hex Slogging Spanner, 27mm waf	1
KL-1070-1130	Hex Slogging Spanner, 30mm waf	1



KL-1070-12 (Code 3281604)

Set of Bi-Hex Slogging Spanners

Suitable for use on bolted connections with bi-hex profile at the cardan shaft as found on MAN, Mercedes-Benz, Renault, Volvo and DAF.
Also applicable to brake calliper bolts with bi-hex profile on BPW and SAF axles.

The slogging spanners are designed to ease the loosening/tightening of bolted connections at cardan shafts and brake callipers. The ideal tools for applications where access is difficult.

The slogging spanners feature a 3/4" square socket and are engraved with a torque conversion formula (necessary due to the extended lever), thus, allowing the user to tighten the bolts - by means of a suitable 3/4" torque wrench - quickly and professionally in accordance with the manufacturer's specifications.

Recommended Accessory:

8563-10 Torque Wrench, 155-760Nm,
600 H-2000 Engineer's Hammer, 2,000g

Technical Data:

Waf size (bi-hex):	19mm, 21mm, 24mm
Profile:	Hex
Square socket:	3/4"

Scope of delivery:

KL-1070-12 Set of Bi-Hex Slogging Spanners

Part No.	Description	Qty
KL-1070-1219	Bi-Hex Slogging Spanner, 19mm waf	1
KL-1070-1221	Bi-Hex Slogging Spanner, 21mm waf	1
KL-1070-1224	Bi-Hex Slogging Spanner, 24mm waf	1

3 pcs.



3/4"



KL-1070-10 B (Code 2968924)

External Hexalobular Slogging Spanner Set

Suitable for use on brake calliper bolts (with Torx Profile) as found at the front and trailer axle of Mercedes-Benz Atego (BR 967); MAN TGA, TGS, TGL, TGM and TGX.

The slogging spanner set is designed to facilitate the loosening and tightening of brake caliper screws - even in hard-to-reach areas. The slogging spanners feature a 3/4" square socket and are engraved with a torque conversion formula (necessary due to the extended leverage). This allows the user to tighten brake caliper screws - by means of a suitable 3/4" torque wrench - quickly and easily in accordance with the manufacturer's specifications.

Using this tool, dismantling the track rod lever is not necessary.

Recommended Accessory:

8563-10 Torque Wrench, 155-760Nm,
600 H-2000 Engineer's Hammer, 2,000g

Technical Data:

Size (waf):	E18, E20, E24
Profile:	External hexalobular
Square socket:	3/4"

Scope of Delivery:

KL-1070-10 B External Hexalobular Slogging Spanner Set

Part No.	Description	Qty
KL-1070-1018 B	External Hexalobular Slogging Spanner E18	1
KL-1070-1020 B	External Hexalobular Slogging Spanner E20	1
KL-1070-1024 B	External Hexalobular Slogging Spanner E24	1

3 pcs.



3/4"





KL-4007-411

[Code 2941554]

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
Max load:	1,050Nm

Technical Data:

Width across flats:	14mm
Profile:	internal hexagon
Tip length:	100mm
Total length:	155mm
Drive:	3/4"
Weight:	452g



IN 32 L 14-155

[Code 2003503]

Screwdriver Bit Socket, internal hexagon, 3/4"

Universally applicable to HGV brake calliper fastening bolts with 14mm waf size / hex socket.

For the professional loosening and tightening of brake calliper fastening bolts.
The long design (155mm) allows even deep-seated brake calliper bolts to be reached with ease.

Recommended Accessory:

8563-10 Torque Wrench

KL-4007-411 Swivel Head Breaker Bar, 3/4", 980mm



KL-1071-1013

[Code 3080536]

Socket, 13mm waf, bi-hex, 1/2"

Suitable for use on HGVs with SAF axle.

Necessary for the loosening and tightening of the bolted connections of brake discs on SAF axles.

- Reinforced design
- Suitable for use with an impact wrench

Technical Data:

Drive:	1/2"
Size (waf):	13mm
Profile:	bi-hex
Length:	38mm



KL-4047-2024

[Code 3036340]

Socket, E24, 3/4"

Suitable for brake disc screws with E24 Torx® Profile, as found in MAN and SAF axle systems.

For the professional loosening and tightening of brake disc screws with E24 Torx® Profile on axle systems.

The socket features an extra-large 3/4" square drive (*standard sockets usually only have a 1/2" drive*) designed to prevent it from shearing off the breaker bar for example when loosening very tight-fitting/stuck brake disc retaining screws.

Technical Data:

Size (waf):	E24
Drive:	3/4"
Length:	56mm

Recommended Accessory:

8563-10 Torque Wrench, 155-760Nm

KL-4007-411 Swivel Head Breaker Bar, 3/4", 980mm

KL-0190-55 [Code 3036324]

Locking Pliers for Air Lines

Universally suitable for use on plastic compressed air lines having an external Ø of 6, 8, 10, 12 or 16mm as found on HGVs and buses.

The pliers allow plastic compressed air lines to be securely held without any risk of damage, for example, when mounting line connectors/fittings that need to be hammered down into the air brake line.

Technical Data:

For air line Ø:	6, 8, 10, 12, 16mm
Length:	280mm



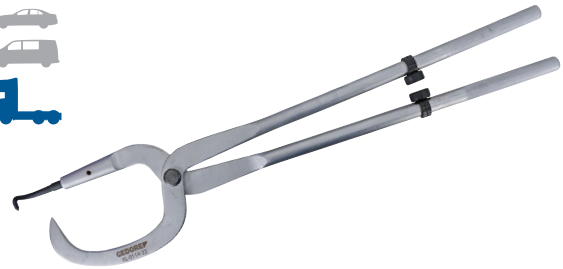
KL-0114-22 [Code 1858076]

Brake Shoe Spring Pliers, HGV

Heavy-duty design. Suitable for HGV pneumatic and hydraulic drum brake systems. Designed for the removal and installation of brake shoe return springs.

Technical Data:

Length:	535mm
Weight:	1,150g



8726 [Code 6770780]

Brake Calliper File

For cleaning brake callipers before installing new brake pads. The file features one rough, diagonally milled side with bevelled edges.

Technical Data:

Length:	260mm
---------	-------



643 [Code 6531440]

Brake Calliper Brush

For cleaning brake callipers before installing new brake pads.

Technical Data:

Length:	220mm
Bristle length:	21mm
Weight:	94g



8000 A ... Circlip Pliers

Universally suitable for commercial vehicle air brake lines with Raufoss® ABC connectors.

For professional and damage-free unlocking of Raufoss® ABC connectors. Required e.g. when removing and installing the air brake lines.



8000 A 12 Circlip Pliers

Available Sizes:

Part No.	Description	Code
8000 A 12	Circlip pliers 45°	2015048

8000 A 11 Circlip Pliers

Available Sizes:

Part No.	Description	Code
8000 A 11	Circlip pliers 90°	6702350

8000 A 1 Circlip Pliers

Available Sizes:

Part No.	Description	Code
8000 A 1	Circlip pliers straight	6701460

Made by **GEDORE Automotive GmbH**



TOOLS FOR THE PROFESSIONALS

PERFECTLY TAILORED TO KNORR-BREMSE SYSTEMS AND COMPONENTS.

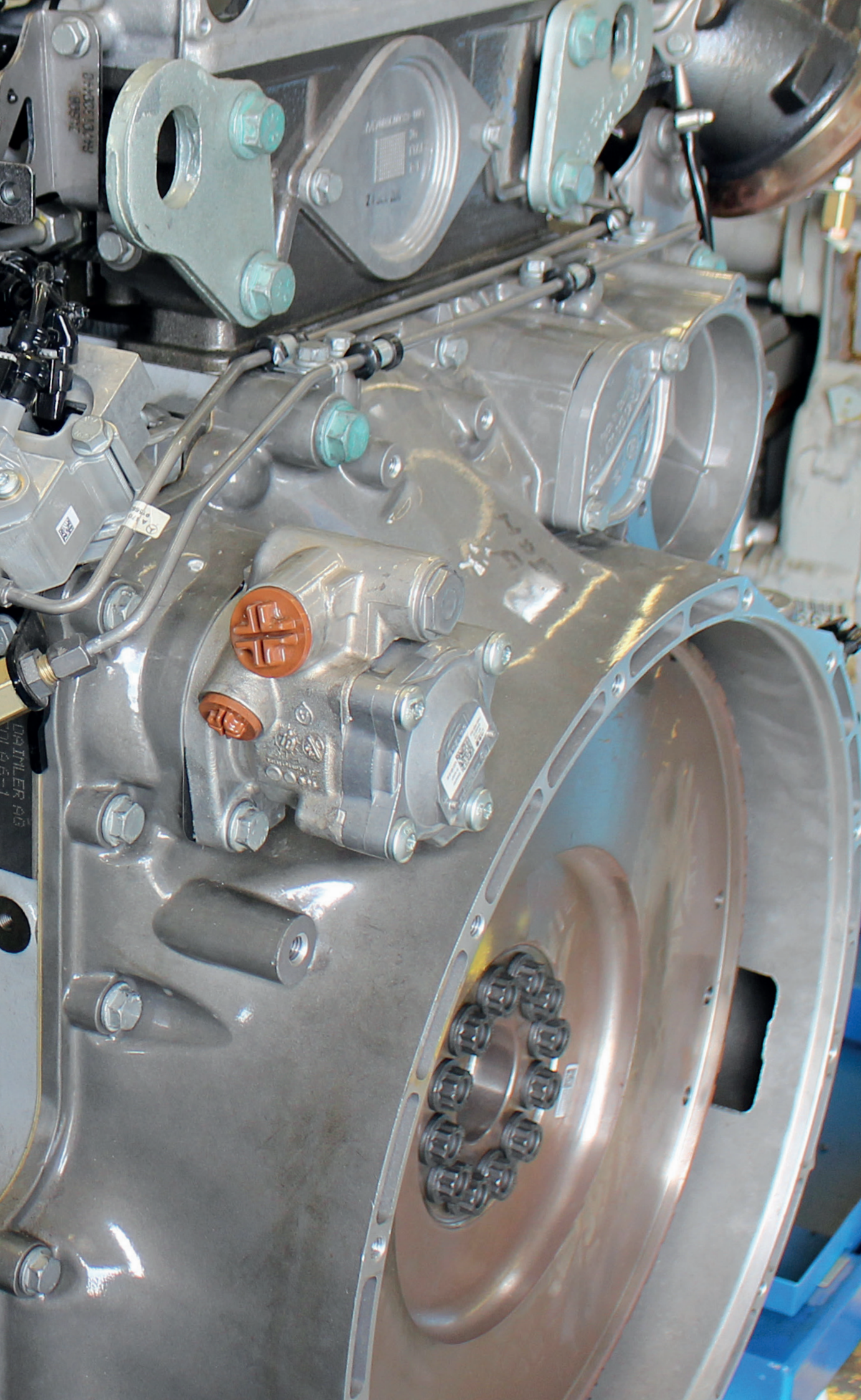
A custom-made tool for every service application – with Knorr-Bremse TruckServices, this vision is now within your grasp. Special tools help you to perform a variety of repair and maintenance operations even faster, more efficiently and safely. The range encompasses everything from a disc brake maintenance and repair tool kit to a smart individual tool for releasing and tightening bayonet cartridges. All the tools have been developed in cooperation with leading specialist tool manufacturers. As part of our commitment to top-quality, user-friendly solutions, we are constantly working with our development partner GEDORE to expand the range.

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EVERY VEHICLE TELLS ITS STORY.
KEEP IT RUNNING

TRUCKSERVICES





4. Engine Maintenance/Repairs





Technical Data:

Clamp Ø:	18-53mm
Length:	273mm
Weight:	390g

KL-0121-22

[Code 1752529]

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:	285mm
Clamp Angle:	110°
Weight:	425g

KL-0121-23

[Code 1752537]

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:

For clamp Ø:	18-53mm
Length:	225mm
Clamp Angle:	90°
Weight:	403g

KL-0121-25

[Code 1752545]

Hose Clamp Pliers, with Remote Action and 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.

Alternative tools: KM-6182-4, T20174, VAS 5024 A

This tool is designed to open self-tensioning hose clips, for example when replacing fuel hoses, oil hoses, radiator and heater hoses.

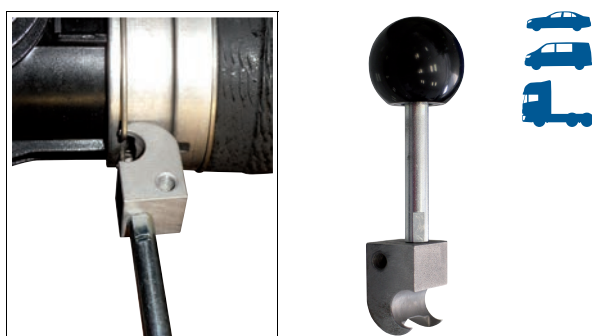
The long flexible cable with remote-action mechanism enables even hose clips in hard-to-access areas to be reached easily and without any trouble. The special design of the pliers ensures that the clip is safely gripped and securely held.



KL-0121-2501

[Code 1797352]

Bowden Cable (Spare)



KL-0124-59

[Code 2961830]

Removal Tool for HENN® Clamps

Universally suitable for HENN® Clamps as found on coolant hoses/charge air hoses. For example, fitted to Mercedes Actros MP4 etc.

Designed for the professional loosening/opening of HENN® Clamps as found on coolant hoses/charge air hoses in HGV/commercial vehicles. 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-0121-38 B Fuel Line Pliers

[Code 3257223]

Universally suitable for quick-release couplings as found on fuel lines in vehicles from VW-Audi, SEAT, ŠKODA, Mercedes, BMW, Renault, Peugeot, Opel/Vauxhall, Chrysler, Fiat etc.

Alternative tools: W 163 589 00 37 00

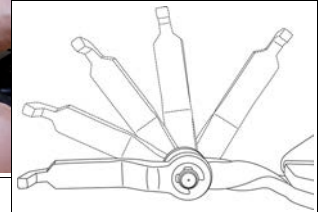
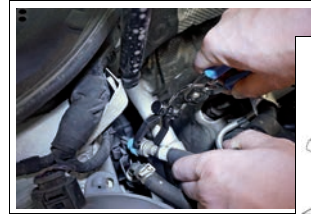
Allows you to unlatch quick-release couplings on fuel lines professionally.
An indispensable tool when changing the fuel filter or performing repairs to the fuel system for example.

Today's fuel lines generally feature quick-release couplings having very small release lugs. The use of conventional pliers is not appropriate, since the size of the clamping jaws is simply too large to fit these lugs.

The adjustable fuel line pliers from GEDORE Automotive is the perfect solution here - the ingenious design of the pliers' gripping jaws, which can be swivelled by up to 90 degrees, allows even hard-to-reach couplings to be released without any damage.

Technical Data:

Swivel range:	90°
Length:	172mm



KL-0122-703 Fuel Filter Socket, Ø 115mm, Ford Transit

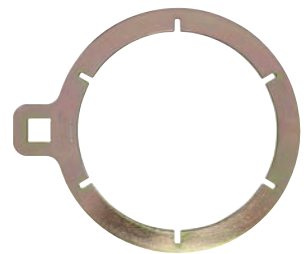
[Code 3087573]

Applicable to fuel filter housings (Ford No. 1 781 617), as fitted to Ford Transit Custom (from 2012 onwards), Tourneo Custom (from 2012 onwards), Transit (2006-2014) and Transit (from 2014 onwards).

Required when changing the fuel filter cartridge.
The compact design of the socket allows the fuel filter cap to be loosened and tightened with ease, even on vehicles where space is at a premium.

Recommended Accessory:

1993 U-20 Reversible Ratchet 1/2"



Technical Data:

Drive:	1/2"
Inner diameter:	115mm
Grooves:	6 Grooves

KL-0122-51 Filter Socket, Size (waf) 32mm

[Code 1807390]

Suitable for use on DAF, IVECO, MAN, Mercedes-Benz, Renault and Volvo.

The filter key is required to remove and install the filter cover when changing the AdBlue® filter insert.

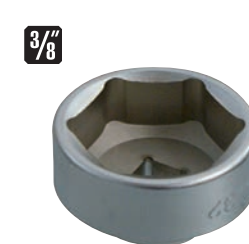
Recommended Accessories: 3093 U-20 Reversible Ratchet 3/8"

Technical Data:

Drive:	3/8"
Size (waf):	32mm

BlueTec® = registered trademark of Daimler AG

AdBlue® = registered trademark of Verband der Automobilindustrie e.V (VDA)



KL-0122-53 Filter Socket, Size (waf) 46mm

[Code 2486059]

Suitable for Mercedes BlueTec® HGV engines. For example: Actros, Atego, Axor, Eonic.

This filter socket is designed to remove and install the filter cap. Indispensable tool when replacing the AdBlue®-Filter Cartridge.

Recommended Accessories: 3093 U-20 Reversible Ratchet 3/8"

Technical Data:

Drive:	3/8"
Size (waf):	46mm

BlueTec® = registered trademark of Daimler AG

AdBlue® = registered trademark of Verband der Automobilindustrie e.V (VDA)





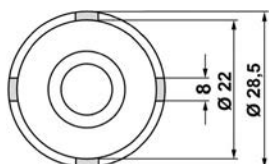
KL-0369-601

(Code 1902059)

Special 4-Pin Socket with Lock Nut

Suitable for MAN and Mercedes HGV engines.

Alternative tool: 80.99603-0121



Designed to unscrew/screw in and re-tighten the pressure nut at the nozzle holder. By tightening the hex lock nut (with retaining thread M14x1.5) on the injector, the socket is prevented from slipping off.

Technical Data:

Drive:	waf 32 (lock nut waf 22mm)
Length:	70mm



43 pcs.



KL-0186-14 EA (Code 3293793) (German Utility Model)

Universal Injector Nozzle Puller Set, in a Foam Insert

Universally suitable for diesel engines, especially for BOSCH injectors with M14x1.5 external thread as well as M17x1 internal thread, and also for DELPHI injectors with M14x1.5 external thread.

Particularly suitable for Mercedes, for example:

- Mercedes: OM611, OM612, OM613, OM628**, OM629**, OM639, OM640, OM642**, OM646, OM646 EVO, OM647, OM648 (**V-engines: engine removal may be necessary for space reasons)
- Peugeot, Citroën, Fiat, Lancia, Suzuki: DV6 16V (not on Euro 5 [8V] engines)
- Ford: 1.6 TDCi (G8DA, G8DB, HHDA, HHJA, HHJB)
- VW-Audi: 2.0, 2.5, 2.7, 3.0 Common Rail TDI
- Volvo: 1.6 D (D4164T), 2.2 D
- Mazda: Y6 DV6 16V (not on Euro 5 [8V] engines)

The injector extractor kit enables fast and professional removal of severely stuck injectors directly on the vehicle without removing the cylinder head. For this purpose, screw the 4 support pins with M6x1 mounting thread into the valve cover mounting holes on the cylinder head and place the special pull-off bridge over them afterwards. The spacer nuts included in the scope of delivery enable height compensation of the support pins. By using the appropriate draw spindle, the stuck injector can now be taken out.

Note: The injector extractor can also be used for many other common rail diesel engines by using the optionally available support pins, draw spindles and supplementary kits. For example: 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); Toyota 2.2 (2AD-FHV, 2AD-FTV).

Recommended Drive Parts (cf. Chapter Drives):

KL-0040-175 B Hydraulic Drive Tool Kit with Safety Belt

KL-0215-35 M25 Hydraulic Hand Pump

Storage System:

KL-4990-9474 Plastic Storage Case

Recommended Accessory:

KL-0121-75 Set of Vacuum Line Plug

Scope of Delivery:

KL-0186-14 EA Universal Injector Nozzle Puller Set, in a Foam Insert

Part No.	Description	Qty
KL-0186-121 A	Extraction Bridge (Base Tool)	1
KL-0186-1231-11	Support Bolt 110mm	4
KL-0186-1235-3	Set Screw, M6x45mm	4
KL-0186-1235-2	Set Screw, M6x25mm	4
KL-0583-1005 A	Pull Spindle, M17x1, with Union Nut	1
KL-0186-1215	Nut, M16x1.5	1
KL-0583-1032	Pull Spindler, M14x1.5	1
KL-0369-4505 A	Special Bit Insert, Size (waf) 10mm	1
KL-0369-461 A	Special Socket, Size (waf) 29mm	1
KL-0186-1251	Set of Spacer Nuts, 5mm	1
KL-0186-1252	Set of Spacer Nuts, 10mm	1
KL-0186-1253	Set of Spacer Nuts, 15mm	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-4990-2001	Plastic Box	2
KL-0186-1492 A	Foam Insert	1

KL-0186-14 KA Injector Nozzle Puller Set
Like **KL-0186-14 EA**, but in a Plastic Suitcase

KL-0186-130 A (Code 3293882) Support Bolt Kit for KL-0186-14 EA

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 [F1CE 3481D, F1CE 3481DM, F1CE 3481E, F1CE 3481N] also Euro 5), as well as Alfa Romeo 1.9 JTD (Engine code: 937A5.000).

By using the support bolt kit, the injector extractor **KL-0186-14 EA** also fits the above-mentioned engines.

Note: For 3.0 JTD/HDI (Euro 5) engines with extremely tight-fitting injectors, use the supplementary kit - KL-0186-132.

Necessary Accessories:

KL-0186-14 EA Injector Extractor Kit; depending on the injector, the Supplementary Kit **KL-0186-128..** may be required.

Scope of Delivery:

KL-0186-130 A Support Bolt Kit for KL-0186-14 EA

Part No.	Description	Qty
KL-0186-1232-1	Support Bolt, 120mm	4
KL-0186-1261-1	Spacer Nut, 10mm	4

8 pcs.



KL-0186-132 (Code 2938014) Support Bolt / Supplementary Kit for KL-0186-14 EA

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)

By using the support bolt / supplementary kit, the injector extractor **KL-0186-14 EA** also fits the above-mentioned engines, particularly for tight-fitting injectors.

By using the special draw hook in addition to the pulling spindle, force is not only applied to the injector via the draw spindle but also via the draw hook when removing. In this way, the injector is unlikely to break and can be removed in one piece.

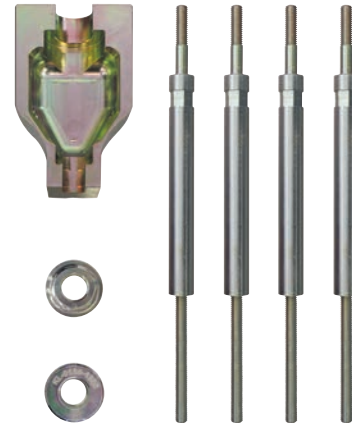
Necessary Accessories:

KL-0186-14 EA Injector Extractor Kit; depending on the injector, the Supplementary Kit **KL-0186-128..** may be required.

Note:

Before re-installing an opened injector nozzle, read and observe the injector nozzle manufacturer's directions and specifications. If necessary, have the injector nozzle tested and checked by an authorized workshop.

7 pcs.



Scope of Delivery: KL-0186-132 Support Bolt/Supplementary Kit

Part No.	Description	Qty
KL-0186-1232-1 L	Support Bolt, 175mm	4
KL-0186-1321	Special Injector Puller Claw	1
KL-0186-1322	Knurled Nut	1
KL-0186-1323	Hex Nut	1

KL-0121-75 (Code 1892614) Set of Vacuum Line Plugs

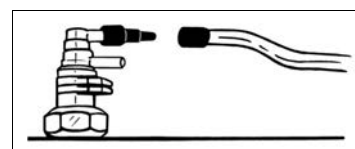
Universally suitable for pressure, vacuum and fuel lines.

Alternative tools: 0188-T, 0189-Q, 0194-T, 1617-J

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").

The set is often used in conjunction with the **KL-0186-14 EA** injector nozzle puller set.

48 pcs.





12 pcs.



KL-0186-95 K

(Code 3296873)

Injector Extractor Set (VM-Motori/HATZ-Diesel/Iveco)

Universally fits agricultural machines, construction machines, and municipal vehicles with engines from VM-Motori as well as HATZ-Diesel and Iveco. For example, the motor series: VM-Motori R754 (Euro 5 + Euro 6), R756 (Euro 6); HATZ-Diesel H-Serie 3H50 TIC, 4H50 TIC; Iveco F1CE3 (Euro 5), 8140.43 (Euro 3).

For example, installed at Aebi, Boki, Boschung, Bulmor, Bucher, Hako, Hansa, Kärcher, Ladog, Lindner, Meili, MFH, Reform, Schell, Schmidt, Triletty.

For quick and professional extraction of stuck injectors from the cylinder head, in conjunction with an impact extractor (mounting thread: M18x2.5). It is required when removing the valve cover, for example, and when renewing the injectors.

The special design of the injector extractor allows the injector to be pulled out without having to open it, directly above the fuel connection. Injectors that have been opened must be sent in for repair according to the manufacturer's instructions.

Required Drive Parts (see Chapter Drives):

KL-0369-4100 Impact Extractor 1.5kg,

KL-0049-300 Impact Extractor 4.8kg

Scope of Delivery:

KL-0186-95 K Injector Extractor Set

Part No.	Description	Qty
KL-0186-951	Injector extractor HATZ H-series	1
KL-0186-952	Injector extractor VM-Motori	1
KL-0186-9000-1	Nozzle extractor Head plate	1
KL-0186-9000-2	Cheese-head screw M8x35mm	2
KL-0186-9090	Plastic suitcase	1



14 pcs.



KL-0186-91 EA

(Code 3283992)

Injector Nozzle Puller Set, in a Foam Insert

Universally suitable for Denso injector nozzles with high-pressure fuel line connector having an M12x1.5 / 30° external thread. Also suitable for Bosch und Siemens/VDO injector nozzles with detachable high-pressure fuel line connector having an M12x1 / 45° internal thread. For example, fitted to: BMW, Mercedes, Chrysler, Chevrolet, Citroen, Fiat, Hyundai, Iveco, Lancia, Opel/ Vauxhall, PSA, Peugeot, Renault, Saab, Suzuki, Toyota.

Alternative tool: T10415

For the quick and easy extraction of tight-fitting or seized injector nozzles. An indispensable tool set when removing the valve cover or replacing injector nozzles.

Thanks to the special bolts that come with the set, the puller can be fixed via the high-pressure fuel line connector. This eliminates the need for opening the injector nozzle. The special design of the tool also ensures optimum and damage-free power transmission.

Necessary Drive Parts (cf. Chapter Drives):

KL-0369-4100 (1.5kg) or **KL-0049-300** (4.8kg) Slide Hammer Puller

Recommended Accessory:

KL-0186-9101 A Upgrade Kit, M14 / 45°

KL-0186-9301 Upgrade Kit, Denso, M14x1.5 / 30°

KL-0186-9401 Upgrade Kit, M12x1 / 20°

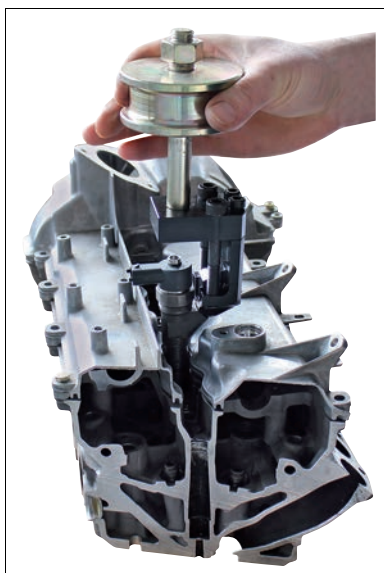
Tool Storage System:

KL-4990-9326 Plastic Storage Case

Scope of Delivery:

KL-0186-91 EA Injector Nozzle Puller Set, in a Foam Insert

Part No.	Description	Qty
KL-0186-9000 A	Head plate with Cheese-Head Screw	1
KL-0186-9001 A	Injector extractor M12x1 / 45°	1
KL-0186-9201 A	Injector extractor M12x1,5 / 30°	1
KL-0186-950	Tension Joint M18	1
KL-0186-9090-2 A	Foam Insert	1



KL-0186-9101 A (Code 3283836)

Upgrade Kit, M14 / 45°

Universally applicable to Bosch injector nozzles equipped with a detachable high-pressure fuel line connector having an M14x1.5 and M14x1 internal thread (45° angled). For example, fitted to: VW-Audi, Seat, Skoda, Citroën, Fiat, Iveco, PSA, Peugeot. Particularly suitable with Fiat Ducato, IVECO Daily 2.8 JTD; VW Golf 6, Tiguan, Touran 2.0 TDI (engine code CFFB); Industrial diesel engines HATZ 4H50TIC.

For the quick and easy extraction of tight-fitting or seized injector nozzles. Indispensable tools when removing the valve cover and replacing injector nozzles.

Necessary Accessories:

KL-0186-91 EA Injector Nozzle Puller Set

KL-0369-4100 (1.5kg) or KL-0049-300 (4.8kg) Slide Hammer Puller

3 pcs.



Scope of Delivery: KL-0186-9101 A Upgrade Kit, M14 / 45°

Part No.	Description	Qty
KL-0186-9101-1	Adaptor Plate, M14x1.5 / 45°	1
KL-0186-9101-2	Special Bolt, M14x1.5	1
KL-0186-9101-3	Special Bolt, M14x1	1

KL-0186-9301 (Code 3133273)

Upgrade Kit, Denso, M14x1.5 / 30°

Universally applicable to Denso injector nozzles equipped with a high-pressure fuel line connector having an M14x1.5 external thread (30° angled). For example, fitted to: Opel/Vauxhall.

For the quick and easy extraction of tight-fitting or seized injector nozzles. Indispensable tools when removing the valve cover and replacing injector nozzles.

Necessary Accessories:

KL-0186-91 EA Injector Nozzle Puller Set

KL-0369-4100 (1.5kg) or KL-0049-300 (4.8kg) Slide Hammer Puller

2 pcs.



Scope of Delivery:

KL-0186-9301 Upgrade Kit, Denso M14x1.5 / 30°

Part No.	Description	Qty
KL-0186-9301-1	Adaptor Plate, Denso M14x1.5 / 30°	1
KL-0186-9301-2	Threaded Sleeve, M14x1.5	1

KL-0186-9401 (Code 3133311)

Upgrade Kit, M12x1 / 20°

Universally applicable to Bosch and Siemens/VDO injector nozzles equipped with a detachable high-pressure fuel line connector having an M12x1 internal thread (20° angled).

For example, fitted to: Citroën, Ford, Jaguar, PSA, Peugeot.

For the quick and easy extraction of tight-fitting or seized injector nozzles. Indispensable tools when removing the valve cover and replacing injector nozzles.

Necessary Accessories:

KL-0186-91 EA Injector Nozzle Puller Set

KL-0369-4100 (1.5kg) or KL-0049-300 (4.8kg) Slide Hammer Puller

4 pcs.



Scope of Delivery: KL-0186-9401 Upgrade Kit, M12x1 / 20°

Part No.	Description	Qty
KL-0186-9001-2	Special Bolt, M12x1	1
KL-0186-9001-3	Special Bolt, M12x1, long	1
KL-0186-9001-4	Sleeve	1
KL-0186-9401-1	Adaptor Plate, M12x1 / 20°	1

KL-0369-900 KC (Code 3242757)

Set of Glow Plug/Spark Plug Sockets

Universal suitable.

Alternative tools: W 001 589 78 09 00, 3220, U-40082

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 on the inside with a retaining rubber to prevent the spark plug/glow plug from falling out unintentionally.

The long and slim design of the 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, the protective cap (supplied with the tool set) must always be used in order to protect the plug connector against dirt and electrostatic charging.

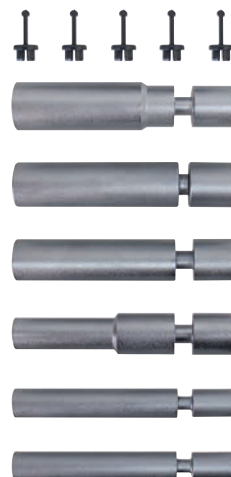
Scope of Delivery: KL-0369-900 KC Set of Glow Plug/Spark Plug Sockets with Joint

Part No.	Description	Qty
KL-0369-9001 A	Glow Plug Socket with Joint, Size (waf) 8mm	1
KL-0369-9002 A	Glow Plug Socket with Joint, Size (waf) 9mm	1
KL-0369-9003 A	Glow Plug Socket with Joint, Size (waf) 10mm	1
KL-0369-9007 A	Glow Plug Socket with Joint, Size (waf) 12mm, for 'PSG' Glow Plug	1
KL-0127-48	Spark Plug Socket with Joint, Size (waf) 14mm	1
KL-0369-9006 A	Spark Plug Socket with Joint, Size (waf) 16mm	1
KL-0369-9007-10	Protective Cap for 'PSG' Glow Plug	5
KL-0369-9090 C	Plastic Storage Case	1

11 pcs.



3/8"
1/4"



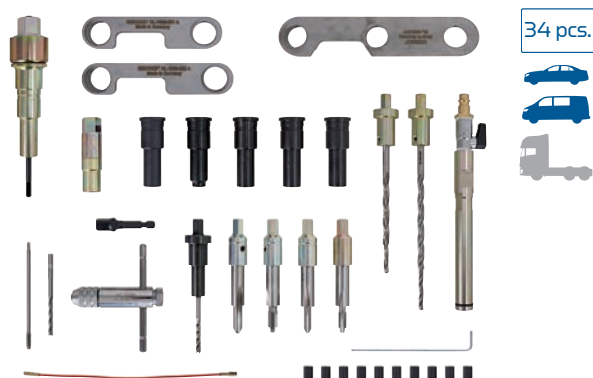
Recommended Accessory:

3093 U-20 Reversible Ratchet, 3/8", 3020 Reducer, 3/8" to 1/4"

4549-05 Torque Wrench, 10-50Nm

Technical Data:

Size (waf):	8, 9, 10, 12, 14, 16mm
Drive:	1/4" + 3/8"
Length:	85mm



34 pcs.



KL-1683-22 K

[Code 3254453]

Glow Plug Tool Set, M8x1

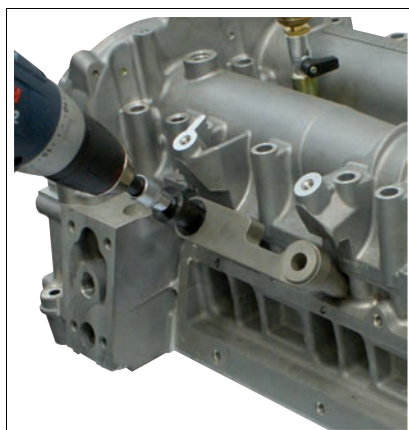
Suitable for use on Fiat, Alfa and Lancia 1.3 JTD (Euro 4) as well as 2.3 and 3.0 JTD / HDI Common Rail Diesel engines having an M8x1 glow plug retaining thread; as fitted to: Fiat 500 / 500C, Ducato, Doblo, Doblo Cargo, Doblo Work Up, Fiorino, Grande Punto, Idea, Linea, Panda, Punto, Punto Evo, Qubo, Strada Pick-up; Alfa MiTo; Lancia Musa, Ypsilon; IVECO Daily; Citroën Jumper; Peugeot Boxer.

The glow plug tool set includes all the tools required for the accurate removal/drilling out of broken-off and stuck glow plugs as well as for re-tapping and cleaning the original M8x1 glow plug retaining 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 an M10x1 to M8x1 threaded sleeve (also included) can be screwed into the cylinder head. With the aid of the compressed air adaptor, air can be injected into the combustion chamber so as to prevent dirt and swarf from entering the latter.

Scope of Delivery: KL-1683-22 K - Glow Plug Tool Set, M8x1

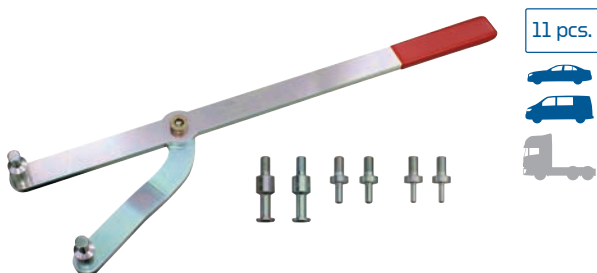
Part No.	Description	Qty
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-1683-2012	Centring Sleeve	1
KL-1683-201	Base Mounting Plate, 2.3 JTD	1
KL-1683-202	Base Mounting Plate, 3.0 JTD	1
KL-1683-2031	Guide Sleeve for Milling Cutter	1
KL-4007-2510	Adaptor for Power Drill, 3/8"	1
KL-1683-2032	Milling Cutter for Glow Plugs	1
KL-1683-2041	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 M10	1
KL-0283-7022	Screw Tap, M10x1	1
KL-1683-2063	Set of Threaded Sleeves, M8x1, 13mm long (10-pc.)	1
KL-0369-306	Tap Wrench with Square Socket, 2.4-5.5mm	1
KL-1683-207	Puller Kit for Glow Plug Body	1
KL-0369-56 B	Compressed Air Adaptor, M10x1	1
KL-1683-2081	Guide Sleeve for Reamer	1
42 KEL 2,5	Hex Socket Key, 2.5mm waf	1
KL-1683-2082	Reamer, Ø 6.9mm, Ø 4.9mm	1
KL-0126-221	Magnetic Valve Collet Lifter (flexible)	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare) (Ersatzfräser)	1
KL-1683-211	Base Mounting Plate, 1.3 JTD	1
KL-1683-2112	Guide Sleeve	2
KL-1683-212	Reamer, Ø 6.9mm, Ø 4.9mm	1
KL-1683-2090 A	Plastic Storage Case	1

(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, F1A, F1C, F30 DT)



Technical Data:

For glow plug retaining thread:	M8x1
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11 pcs.



KL-0282-35 B

[Code 2871300]

Reaction Wrench Kit (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.

Alternative tool: 3036, 0606-A1, 0606-A1Y, 0606-A2, 09917-68221, 1.860.831.000, 1.860.831.001, 1.860.831.002, 1.860.885.000, 1.870.815.000, 1.870.836.000, 15-030 A, 18G 1521, 205-072, 49 D011 102, 49 G011 103, 49 S120 710, 6016-T, 6310-T, EN-47634, EN-49979, KM-6245, KM-6347, MD998747, Mot.799, Mot.799-01, MP-1-216, T10172, T10172/1, T10172/2, T10172/4, T10172A, T20018, T20018A, T20018B, T20018B/1, T20018B/2, T20018B/3, T30004, T97T-6256-B

Designed to counter-hold timing belt sprockets on camshafts, injection pumps etc., for example, when loosening/tightening the central fastening bolt. The different interchangeable pins and the adjustable lever allow the tool to be adapted to various hole diameters and PCDs. Thanks to these features, the wrench is virtually universally applicable.

Scope of Delivery: KL-0282-35 B Reaction Wrench Kit (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-0184-021 (Code 2814536)

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 in: VW Crafter, T4.

Engine codes: AJA, BJJ, BJK, BJL, BJM, CEBA, CEBB, CECA, CECB

Alternative tools: 2066, 2079, 3248, 3256, 3419, 3099, 3248A, MP-1-310, T10025

This tool is designed to counter-hold the crankshaft pulley when loosening/tightening the crankshaft central screw.

An indispensable tool when replacing timing belts, sealing rings or flywheels and for engine repairs.

Technical Data:

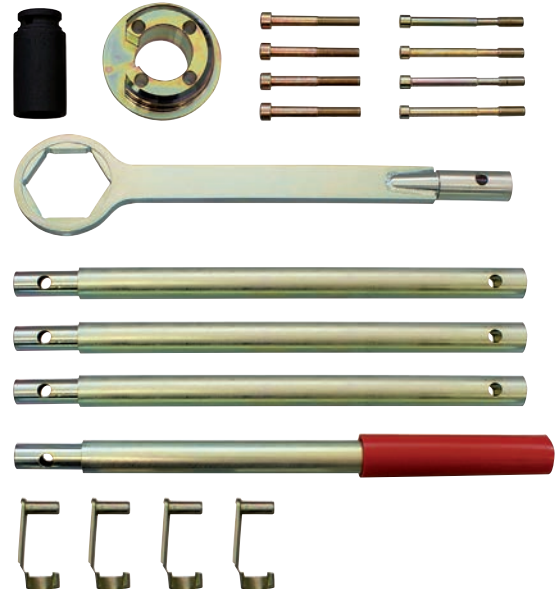
Overall length (assembled tool):	1.8m
Length of extension tube:	400mm
Length of extension tube with protective handle:	403mm
Length of base tool:	401mm
Drive of hex socket:	1/2"

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

19 pcs.



KL-1682-26 KA (Code 2900254)

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.

(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)

Alternative tool: 0194-C, 99395214, KM-6031, Mot.1054, 1.870.765.001, 1.860.617.000, 99360608, Mot. 910, 1.860.638.000, 0191-H, 99360614, 0191-B, 0191-2B, 0192-B, 2.000.018.200, 99360615, 0192-A, 0191-A, 0191-2A, 4533-TAD, 1.870.900.100, 0189-K, 0188-K, 0187-J, 0153-AK, 0132-AK

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

9 pcs.





22 pcs.



KL-1380-26 KC

[Code 2916371]

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.

(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, DW12TED4, DW12TED4/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, RHY, RHZ, T1BA/B/C, TZJA, Y6)

Alternative tool: 0188-Y, 0153N, 1.860.863.000, 1.870.827.000, 7104-TJ, 9767.34, 0188-D, 7017-TR, 0288-D, 0188-M, 9766.98, 0178-A, 0132-AJ1, 5711-TA, 7014-TN, 2.000.023.200, 0153-AL, 0188-F, 0134-AF, 9044-T, 0188-X

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

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 B	Locking Pin, Ø 8mm	1
KL-1380-2690 A	Plastic Storage Case	1



1.37/2

[Code 8017200]

Cylinder Liner Puller

Fits passenger car and commercial vehicle cylinder liners with a diameter of 60-160mm. Installed, for example, on commercial vehicles from Mercedes-Benz and MAN, etc.

The extractor enables simple and professional extraction of wet cylinder liners.

Mode of 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. By turning the spindle, all three jaws quickly and easily spread tightly under the edge of the bushing due to the novel spreading system. Then tighten the nut of the counter support.

Technical Data:

Spreading range:	60-160mm
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KL-0363-2 A

[Code 3036421]

Flywheel-Rotating Tool with 2 Gear Wheels

Suitable for Mercedes lorries equipped with either a 6-, 8- or 10-cylinder engine; MAN lorries equipped with a 12-cylinder engine.

(Engine codes: Mercedes OM401, OM402, OM403, OM409, OM421, OM422, OM423, OM429, OM441, OM442, OM444, OM446, OM447, OM457, OM489, OM541, OM542; MAN D2842)

Alternative tools: W 407 589 00 63 00, 80.99626-6008

This tool allows you to accurately rotate the engine for valve setting or other maintenance and service work.

Technical Data:

Drive:	1/2"
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Recommended Accessory: 1993 U-20 Reversible Ratchet, 1/2"

KL-0363-3 A [Code 3036456] Flywheel-Rotating Tool with 3 Gear Wheels

Suitable for Mercedes lorries equipped with either a 4-, 6- or 8-cylinder engine; MAN lorries equipped with either a 5-, 6- or 8-cylinder engine.
(Engine codes: Mercedes OM457, OM541, OM542, OM902, OM904, OM906, OM924, OM926; MAN D25, D28)

Alternative tool: W 904 589 04 63 00

This tool allows the user to accurately rotate the engine for valve setting or other maintenance and service work.

Recommended Accessory: 1993 U-20 Reversible Ratchet, 1/2"



Technical Data:

Drive:	1/2"
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KL-0363-4 [Code 2432366] Flywheel-Rotating Tool with 1 Gear Wheel

Suitable for MAN lorries equipped with either a 6- or 8-cylinder engine.
(Engine codes: D20, D25, D26, D28)

This tool allows you to accurately rotate the engine for valve setting or other maintenance and service work.

Recommended Accessory: 1993 U-20 Reversible Ratchet, 1/2"



Technical Data:

Drive:	1/2"
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KL-0363-5 [Code 3036359] Flywheel-Rotating Tool, Volvo

Suitable for Volvo and Renault lorries equipped with a 6-cylinder engine.
(Engine codes: Volvo D9A, D11B, D12, D16C; Renault DXi11, DXi12)

Alternative tool: 999-6956

This tool allows the user to accurately rotate the engine for valve setting or other maintenance and service work.

Recommended Accessory: 1993 U-20 Reversible Ratchet, 1/2"



Technical Data:

Drive:	1/2"
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KL-0363-7 [Code 3036383] Flywheel-Rotating Tool, Scania

Suitable for Scania lorries equipped with either a 5-, 6- or 8-cylinder engine.
(Engine codes: DC 12, DC 13, DC 16)

This tool allows the user to accurately rotate the engine for valve setting or other maintenance and service work.

Recommended Accessory: 1993 U-20 Reversible Ratchet, 1/2"



Technical Data:

Drive:	1/2"
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KL-0363-8 [Code 3036413] Flywheel-Rotating Tool, Volvo

Suitable for Volvo and Renault lorries equipped with a 6-cylinder engine.
(Engine codes: Volvo D13; Renault DXi13)

This tool allows the user to accurately rotate the engine for valve setting or other maintenance and service work.

Recommended Accessory: 1993 U-20 Reversible Ratchet 1/2"



Technical Data:

Drive:	1/2"
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KL-0363-9 A [Code 3282872] Flywheel-Rotating Tool, DAF

Suitable for DAF lorries equipped with a 6-cylinder (Euro 5 & 6) engine. Engines fitted to DAF XF 105 (Euro 5) for example.
(Engine codes: MX300, MX340, MX375)

This tool allows the user to accurately rotate the engine for valve setting or other maintenance and service work.

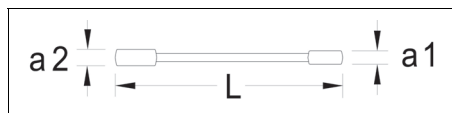
Recommended Accessory: 1993 U-20 - Reversible Ratchet 1/2"



Technical Data:

Drive:	1/2"
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304.. Series Half Moon Ring Spanner



Universal application.

Required for the correct loosening and tightening of the turbocharger fastening screws. With extra thin-walled rings, particularly necessary in very tight spaces.

Available Sizes:

Part No.	L (mm)	a1 (mm)	a2 (mm)	Size1/Size2	Code-No.
304 11x13	150	7.0	7.5	11/13	6470040
304 13x15	185	8.5	8.5	13/15	6470630
304 13x17	185	8.5	8.5	13/17	6470120
304 14x16	185	8.5	8.5	14/16	6470200
304 14x17	185	8.5	8.5	14/17	6470390
304 15x17	185	8.5	8.5	15/17	6470470
304 16x18	185	8.5	8.5	16/18	6567550
304 19x22	230	10.0	10.5	19/22	6470550



1/2"

KL-0122-192 (Code 2967421) Oil Filter Socket (universal), Ø 80-110mm

Universally suitable for use on oil filters with Ø of 80-110mm as found in passenger cars.

The socket allows you to loosen oil filters quickly and safely. Retaining jaws grip the filter without any risk of slipping. The ideal tool when space is at a premium.

Recommended Accessory: 1993 U-20 Reversible Ratchet, 1/2"

Technical Data:

Clamping range:	Ø 80-110mm
Drive (square):	1/2" or 22mm waf



1/2"

KL-0122-193 (Code 2967448) Oil Filter Socket (universal), Ø 110-145mm

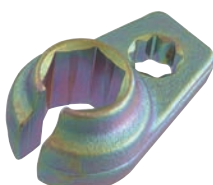
Universally suitable for use on oil filters and air dryer cartridges with Ø of 110-145mm as found in HGVs.

The socket allows you to loosen oil filters and air dryer cartridges quickly and safely. The special design of the tool and of the retaining jaws ensures 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.

Recommended Accessory: 1993 U-20 Reversible Ratchet, 1/2"

Technical Data:

Clamping range:	Ø 110-145mm
Retaining depth:	65mm
Drive (square):	1/2" or 24mm waf



1/2"

KL-0132-6 (Code 1753223) Angle Socket Wrench, 22mm waf

Applications: VW-Audi, BMW, Mercedes, Ford, Opel/Vauxhall, Peugeot, Citroën, Renault, Seat, Škoda, Japanese cars, etc.

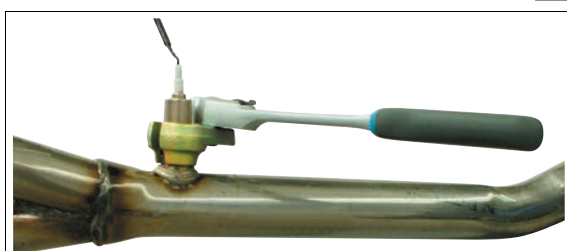
Alternative tool: J-39194-C

Facilitates the removal and installation of hard-to-reach Lambda sensors. Sturdy, forged design.

Recommended Accessory: 1993 U-20 Reversible Ratchet 1/2"

Technical Data:

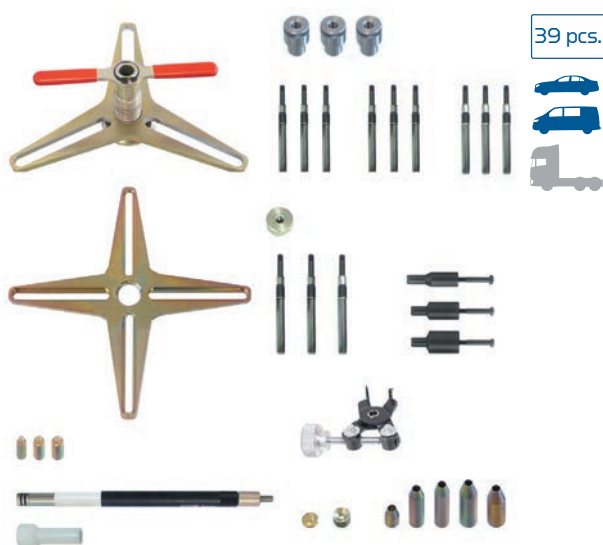
Size (waf):	22mm
Drive:	1/2", axially displaced
Length:	110mm
Weight:	234g





5. Clutch and Gearbox Repairs





39 pcs.



KL-0500-45 KA (Code 2288508) (Patented) Clutch Tool Set (SAC), in a Plastic Storage Case

Fits universally for almost all SAC couplings with 3- and 4-hole pitch available on the market. For example, installed at VW-Audi, BMW, Mercedes, Volvo, Opel, Renault, etc.

Alternative tool: 1.871.003.100, LuK 400 0237 10

This SAC clutch tool kit is absolutely necessary for professional and damage-free removal and installation of SAC clutches (Self-Adjusting Clutch), and it also enables resetting of the SAC adjusting ring in the clutch pressure plate.

Damage-free removal and installation is almost impossible without a SAC clutch tool, as the coupling can be strained or damaged in the process. This inevitably leads to a malfunction or defect of the clutch, and it must be replaced.

The clutch centring tool included in the scope of delivery enables centring of clutch discs with a hub diameter of 15-28mm and a guide bearing or crankshaft hole diameter of 12-28mm. Vehicles without guide bearings in the crankshaft are also not a problem.

The two clamping / centring elements ensure precise centring in the clutch disc on the first clamping element, and precise entering in the guide bearing or crankshaft hole on the second clamping element. Even clutches with crankshaft hole diameter exceeding the clutch hub diameter can be centred cleanly and precisely.

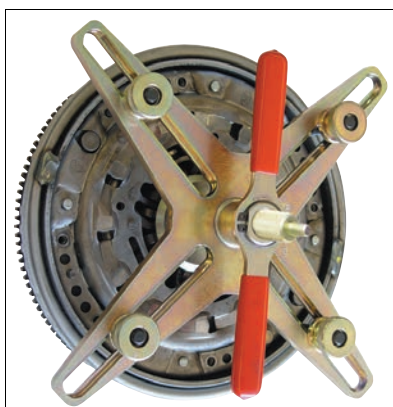
Advantages:

- Professional and damage-free disassembly and assembly of the coupling!
- Precise centring of the clutch disc on vehicles without pilot bearings!
- Centring of the clutch disc towards the pilot bearing or towards the pressure plate is possible!
- The clutch centring tool included in the scope of delivery enables centring of clutch discs with a hub diameter of 15-28mm and a guide bearing or crankshaft hole diameter of 12-28mm.
- Resetting the adjusting ring is possible with the special reset tool!

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



KIS

KLANN Information System

Now you have convenient access to our „KIS“ also with your mobile phone. So you can convert OE tool numbers to our article numbers at any time and wherever you are.



KIS goes mobile ...



KL-1030-10 (Code 2944863)

Clutch Mounting Device

Universally applicable to virtually all common HGV clutch pressure plates.

Alternative tool: W 934 589 00 31 00

The clutch mounting device allows for the safe support and positioning of the clutch pressure plate during removal/installation of the clutch. It is designed to be used in conjunction with either a crane, pit lift or transmission jack depending on application. Thanks to the adjustable retaining rollers of the base tool, virtually all common HGV clutch pressure plates can be safely held in the device. The pivoting retaining rollers and the adjustable inclination angle (+/-10°) 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 fastening pins (Ø 35, 45, 55mm) which enable it to be used with either a crane, pit lift or transmission jack as needed.

Note:

The application range of the **KL-1030-10** clutch mounting device can be further enhanced thanks to the various adaptors available as accessories. Thus, the device is also suitable for the removal/installation of flywheels and die-cast clutch pressure plates.

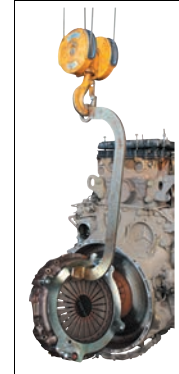
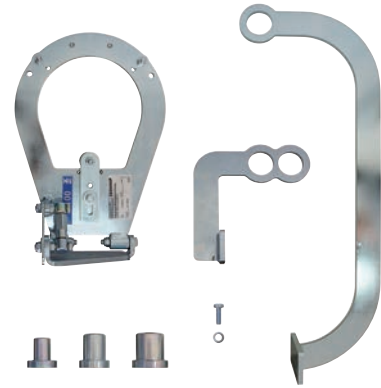
Technical Data:

Height of basic unit with retaining pin:	540mm
Retaining pin Ø:	35, 45, 55mm
Adjustable inclination angle:	+/-10°
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	Basic unit	1
KL-1030-1001	Mounting pin (35mm)	1
KL-1030-1002	Mounting pin(45mm)	1
KL-1030-1003	Mounting pin (55mm)	1
KL-1030-1004	Mounting pin (55mm)	1
KL-1030-1005	Mounting arm	1

8 pcs.



Recommended Accessory:

KL-1030-102 Adaptor for Flywheel
KL-1030-103 Adaptor for Die-Cast Cover
KL-1030-104 Upgrade Kit for EvoBus
KL-1030-106 -C-Clamp

KL-1030-102 (Code 2944871)

Adaptor for Flywheel

Suitable for all common types of HGV flywheels having a pitch circle Ø of 375, 410 or 450mm.

The ideal tool for Mercedes-Benz Actros MP4 (OM 470, 471, 472 and 473).

This adaptor is needed to retain HGV flywheels in the **KL-1030-10** clutch mounting device safely and securely.

Technical Data:

Max. load capacity:	100kg
---------------------	-------



KL-1030-103 (Code 2944898)

Adaptor for Die-Cast Cover

Suitable for Mercedes-Benz HGV clutch pressure plates (A 007 250 14 04, A 007 250 52 04); as fitted to Mercedes-Benz Actros (MP1, MP2, MP3), Atego (1998-2004) and Axor 2.

This adaptor is needed to safely retain HGV clutch pressure plates fitted with a die-cast cover in the **KL-1030-10** clutch-mounting device.

Thanks to the locking mechanism engaging the diaphragm spring, the clutch pressure plate is securely locked.

Technical Data:

Max. load capacity:	100kg
---------------------	-------





3 pcs.



KL-1030-104

[Code 2944901]

Upgrade Kit for EvoBus

Suitable for Mercedes-Benz EvoBus clutch pressure plates.

This upgrade kit is needed to retain EvoBus clutch pressure plates in the **KL-1030-10** clutch-mounting device safely and securely.

For this, simply replace the standard rollers of the **KL-1030-10** device with those from the **KL-1030-104** upgrade kit for EvoBus.

Technical Data:

Max. load capacity:	100kg
---------------------	-------



KL-1030-106

[Code 2944936]

C-Clamp

Suitable for use on HGVs with limited space at the gearbox area.

This C-clamp is needed for the removal/installation of clutch pressure plates and flywheels on vehicles where space around the gearbox is limited (by crossbeams for example).

The C-clamp is used in conjunction with a pit lift and the **KL-1030-10** clutch-mounting device.

Technical Data:

Max. load capacity:	80kg
---------------------	------



14 pcs.



KL-0069-67 E

[Code 3279898]

Clutch Aligner Kit, in a Foam Insert

Intended for use on Vans/LCVs, HGVs and agricultural machinery equipped with either a single-disc clutch or a double-disc clutch (hub inner Ø 23-51mm).

Alternative tools: W 677 589 00 61 00, W 906 589 00 61 00, W 950 589 00 61 00

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.

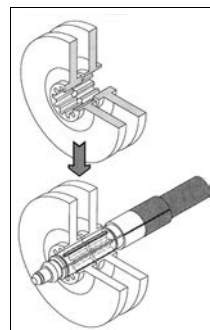
Tool Storage System:

KL-4990-9324 Plastic Storage Case

Scope of Delivery:

KL-0069-67 E Clutch Aligner Kit, in a Foam Insert

Part No.	Description	Qty
KL-0069-710 R	Clutch-Centring Pin, Ø 23-35mm	1
KL-0069-610 A	Clutch-Centring Pin, Size 1, Ø 36-44mm	1
KL-0069-620 A	Clutch-Centring Pin, Size 2, Ø 42-51mm	1
KL-0069-5011	Threaded pin M8x35mm	1
KL-0069-7001	Centring Sleeve, Ø 15mm	1
KL-0069-7002	Centring Sleeve, Ø 16mm	1
KL-0069-7003	Centring Sleeve, Ø 17mm	1
KL-0069-7004	Centring Sleeve, Ø 18mm	1
KL-0069-7005	Centring Sleeve, Ø 19mm	1
KL-0069-7006	Centring Sleeve, Ø 20mm	1
KL-0069-7008	Centring Sleeve, Ø 25mm	1
KL-0069-6001	Centring Piece, Ø 20mm	1
KL-0069-6002	Centring Piece, Ø 25mm	1
KL-0069-6003	Centring Piece, Ø 27mm	1
KL-0069-6004	Centring Piece, Ø 30mm	1
KL-0069-1090-1	Foam Insert	1



Technical Data:

Clutch-Centring Pin KL-0069-710 R:	Ø 23-35mm
Clutch-Centring Pin KL-0069-610 A:	Ø 36-44mm
Clutch-Centring Pin KL-0069-620 A:	Ø 42-51mm

KL-0124-43 (Code 2871726)

Oil Pump with 12 Litre Reservoir

Universal field of application.

Ideal for use on gearboxes as found in VW-Audi, Ford, BMW, Honda, Nissan, Toyota, Mercedes, Volvo vehicles.

The oil pump with 12 litre reservoir is designed to facilitate 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.

Recommended Accessories:

KL-0124-433 Reservoir with lid (12l)

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-0124-4312	Hook	1
KL-0124-4313	Filling Hose with Ball Valve	1
KL-0124-432 K	Adaptors in a Storage Case	1
• KL-0124-4358-0	Adaptor for Ford 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

11 pcs.



Technical Data:

Reservoir capacity (with pump):	12 litre
Cracking pressure of the pressure relief valve:	1 bar (14 psi)
Maximum pressure:	2.5 bar (35 psi)

Note:

Additional reservoir with lid available as accessory (to be ordered separately).

KL-0124-433 (Code 2871874)

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-0190-94 (Code 1961314)

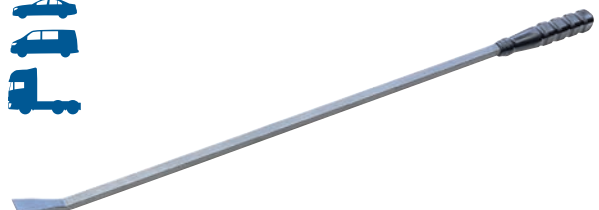
Pry Bar

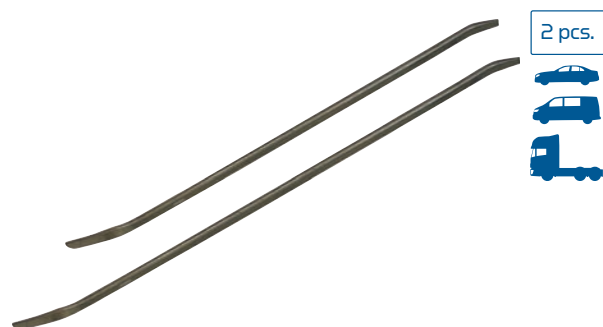
This pry bar made of special steel is ideal for:

- Dismantling stubborn components.
- Positioning and holding components in position.
- Spreading clamping bores, etc.

Technical Data:

Length:	900mm
Blade width:	24mm





2 pcs.



KL-0193-95

(Code 1754092)

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:

Part No.	Length	Blade width 1 / 2	Weight
KL-0193-951	730mm	24/33mm	1,600g
KL-0193-953	900mm	24/33mm	1,900g



KL-0149-131

(Code 1753312)

Pin-Type Face Spanner, Ø 14-100mm, Pin Ø 5mm

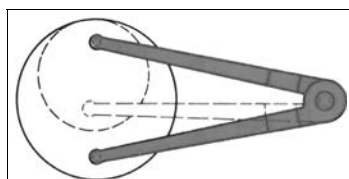
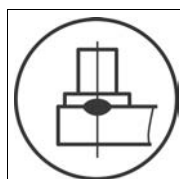
Universal fit for two-hole nuts with 5mm hole diameter as well as for belt pulleys; for example on VW-Audi engines with 1.9 TDI / PD, 2.0 TDI / PD, 2.5 TDI, 2.7 Turbo, 3.0 TFSI / TSI, etc.

Made of special steel and burnished, the face spanner with fixed spigot (not replaceable) can be used for many applications such as:

- Counterholding the pulley when removing and installing the Visco fan on many VW-Audi engines.
- Removing the preload ring when installing a new SAC clutch on Audi, Fiat, etc..

Technical Data:

Ø:	14-100mm
Pin Ø:	5mm
Pin height:	6mm
Overall length:	215mm
Weight:	300g



3 pcs.



1.04/ST-HP-B

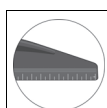
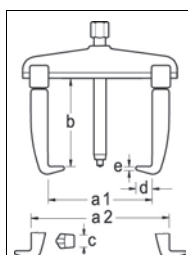
(Code 2300044)

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)

Technical Data:

Pullers:	1.04/HP1A-B	1.04/HP2A-B	1.04/HP3A-B
a1:	130mm	200mm	350mm
a2 min.:	70mm	110mm	150mm
a2 max.:	170mm	260mm	420mm
b:	100mm	100mm	200mm
c:	22mm	30mm	36mm
d:	15mm	24mm	32mm
e:	3.0mm	3.5mm	5.0mm
Max. Load	5t	10t	15t
Thread	M14x1,5 x 140	G 1/2 x 210	G 3/4 x 280
Drive (waf):	17	22	27
Weight	1.2kg	3.4kg	7.7kg





6. Vehicle Body and Interior Fittings





4 pcs.



KL-0194-130 A

[Code 2478536]

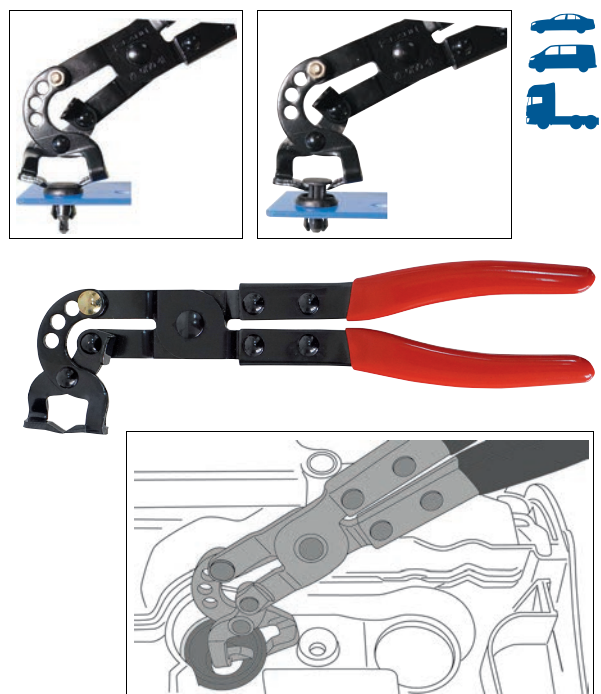
Set of Plastic Wedges

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

Part No.	Description	Weight (g)	Dimensions (mm) LxWxH
KL-0194-13 A	Plastic Wedge, with Felt	75	255x20x25
KL-0194-14 A	Plastic Wedge, with Straight and Sloping Tip	35	250x20x10
KL-0194-15 A	Plastic Wedge	75	200x30x25
KL-0194-16 A	Plastic Wedge, Angled, with Cutout and Pin (for door clips)	55	230x22x8



KL-0190-41 A

[Code 3236579]

Release/Removal Pliers

Fits VW-Audi 1.6 and 2.0 common rail Diesel engines. For example, installed on Audi A1 (8X), A3 (8V), A4 (B9, 8W), A5 (8F), A6 (C7, 4G), Q3 (8U), Q5 (8R), TT (FV, 8S); VW Golf VII (AU, 5G), Passat (B8, 3G), Scirocco III (13), etc.

Plastic rivets for example on the wishbone of Audi A4, A5, A6.

Alternative tool: VAS 211 007, T40195

For removing press-fit injector seal rings from the cylinder head quickly and with ease.

The pliers are also designed to unlock and pull out the re-usable two-part plastic body-bound rivets from door and underbody panels.

The pliers head can be adjusted up to an angle of 90°, thus allowing you to work even in hard-to-reach areas.

Technical Data:

Length:	240mm
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KL-0190-50

[Code 1804898]

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-0190-30

(Code 1859501)

Test Lamp

The test lamp is suitable for testing electric circuits up to 24V. Facilitates locating open and short circuits.
The probe-tip is protected by a screw-cap.

Technical Data:

Weight:	60g
---------	-----



KL-0190-28 K

(Code 2004119)

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:

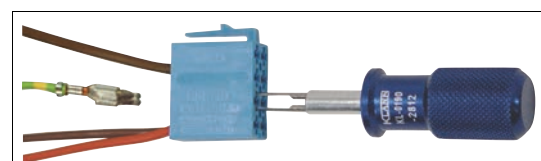
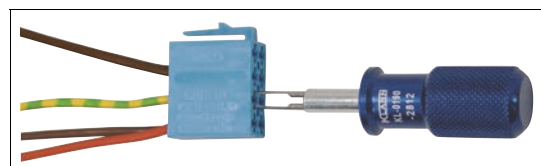
- The tool is easy to operate.
- Substantial time savings.
- Professional and safe working.

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

19 pcs.



252 - 288

Planishing hand anvils

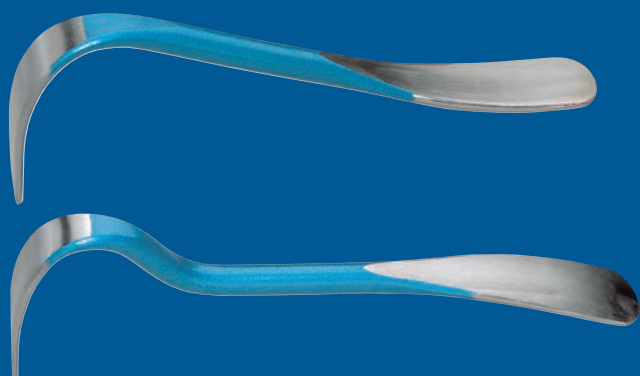
- › Enamelled, with ground faces
- › Painted blue, worktops sanded



292 - 293

Prybar

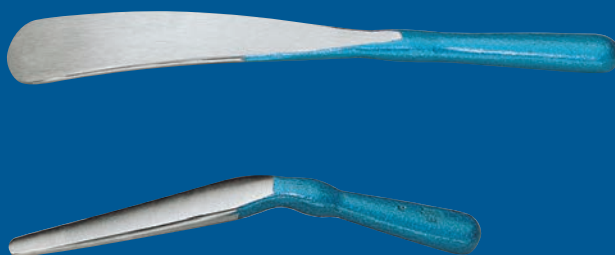
- › Enamelled, with ground faces
- › Painted blue, worktops sanded



289 - 291

Bodywork spoon

- › Enamelled, with ground faces
- › Painted blue, worktops sanded



261

Planishing Hammer

- › Made from hardened and tempered steel to EN 10083
- › Enamelled, with ground faces
- › Painted blue, worktops sanded



7. Drives and Accessories





KL-0369-4100

[Code 2320754]

Slide Hammer Puller Base Tool, 1.5kg

Alternative tool: W 355 589 01 63 00

This tool is designed to extract tight-fitting and seized components such as Injectors etc. It is used in conjunction with the respective corresponding adaptors.

Technical Data:

Hammer weight:	1.5kg
Connecting thread:	M18



KL-0049-300

[Code 2379228]

Slide Hammer Puller Base Tool, 4.8kg

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.

Recommended Accessory:

KL-0049-3020 Hook

Technical Data:

Hammer weight:	4.8kg
Connection thread:	M18



KL-0174-545

[Code 1920685]

Adaptor, 2 1/4"-14 UNS to M18

Component for the assembly of a Puller from the **KL-0174-...** Puller-Series.



KL-0049-3020

[Code 1881620]

Hook

Used in conjunction with the slide hammer puller **KL-0049-31** / **KL-0049-300** for pulling chassis parts.



3 pcs.

KL-0174-831

[Code 2723190]

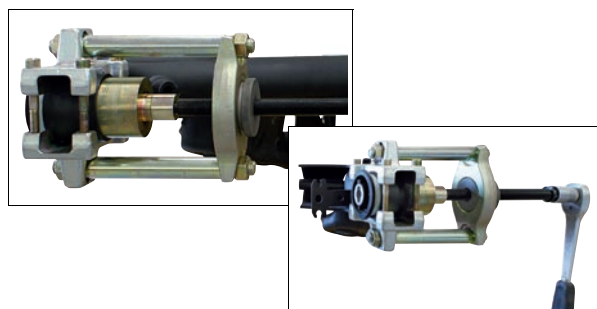
Mechanical Drive Set

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, M20x2x230	1
KL-0174-547	Adaptor, 2 1/4"-14 UNS to M20x2	1
KL-0174-853	Thrust Piece for Mechanical Spindle	1

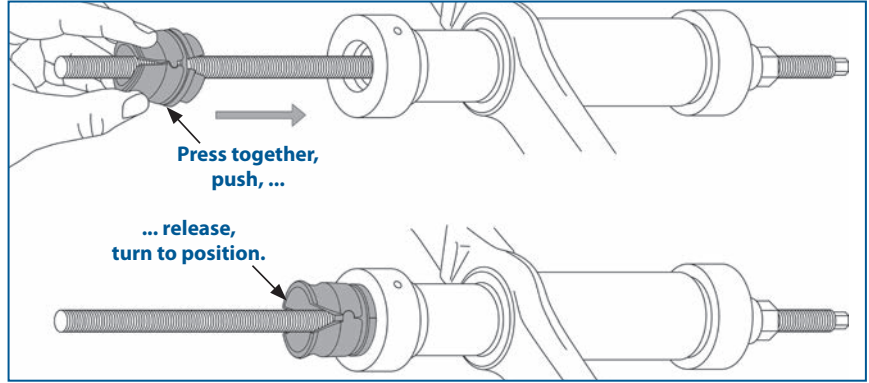


KL-0039-21.. QUICK-ACTION CLAMPING NUT

Universally suitable for the tools of the KL-0039-.. Series Wheel Bearing/Silenbloc Tool 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 with ease - simply by sliding them on the pull spindle without any rotational movement. This allows for short assembly/clamping times as well as for quick and easy adjustment and simple operation of the tool.

Note: To prevent the quick-release nut from opening under load, secure it by the collar together with a suitable pressure/support sleeve, an adaptor, or a retaining ring.



KL-0039-23 (Code 3022269) (German Utility Model) Set of Quick-Action Clamping Nuts

5 pcs.

Recommended Accessory:

KL-0039-2190 Retaining Ring for M10, M12 and M14 Quick-Action Clamping Nuts

KL-0039-2191 Retaining Ring for M16 and M20 Quick-Action Clamping Nuts

KL-0039-2192 Conical Adaptor for M20 Quick-Action Clamping Nut

Scope of Delivery: KL-0039-23 Set of Quick-Action Clamping Nuts

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-0039-2190 (Code 3087026) Retaining Ring for M10, M12 and M14 Quick-Action Clamping Nuts

The retaining ring is needed when a quick-action clamping nut having either an M10, M12 or M14 retaining thread is to be used without the **KL-0039-1011** adaptor. Thanks to this ring, the respective clamping nut can quickly be adjusted on an M10, M12 or M14 pull spindle - simply by sliding it on the spindle without any rotational movement.



KL-0039-2191 (Code 3086992) Retaining Ring for M16 and M20 Quick-Action Clamping Nuts

The retaining ring is needed when a quick-action clamping nut having either an M16 or M20 retaining thread is to be used without the **KL-0039-1002** adaptor. Thanks to this ring, the respective clamping nut can quickly be adjusted on an M16 or M20 pull spindle - simply by sliding it on the spindle without any rotational movement.



KL-0039-2192 (Code 3087034) Conical Adaptor for M20 Quick-Action Clamping Nut

The conical adaptor allows the **KL-0039-2120-2** quick-action clamping nut to be quickly adjusted on the **KL-0039-1920-1** pull spindle - simply by sliding it on the spindle without any rotational movement. A very useful complement to the **KL-0041-380 EA** wheel hub puller and **KL-0041-740 E** wheel bearing tool set.



Overview Spindle, Quick-Action Clamping Nut, Clamping-/Pressure Nut



Spindles for Cardan Shafts KL-0174-Series

KL-No.	Code	Thread	Type	Overall length	L-/Ø-operating	Max.	Drive
KL-0174-610	2404559	M14x1,5	Pressure Spindle	175mm	150mm	9t	mechanical
KL-0174-812	1817140	M16x1,5	Pressure Spindle	175mm	150mm	13t	mechanical
KL-0174-611	1903136	M16x1,5	Pressure Spindle	69mm	50mm	13t	mechanical
KL-0174-817	2261995	M20x1,5	Pressure Spindle	180mm	150mm	20t	mechanical
KL-0174-620	2173131	M20x2	Pressure Spindle	260mm	230mm	20t	mechanical



Spindles for Silent Blocks and Wheel Bearings KL-0039- / KL-0040-Series

KL-No.	Code	Thread	Type	Overall length	L-/Ø-operating	Max.	Drive
KL-0039-2010-1	2274418	M10x1,25	Pull Spindle	395mm	-	5t	mechanical
KL-0039-1910-1	2201534	M10x1,25	Pull Spindle	590mm	390mm	5t	hydraulic 17t
KL-0039-2012-1	2361760	M12	Pull Spindle	395mm	-	7t	mechanical
KL-0039-1912-1	2201542	M12	Pull Spindle	590mm	390mm	7t	hydraulic 17t
KL-0039-2014-1	2361884	M14	Pull Spindle	395mm	-	9t	mechanical
KL-0039-1914-5	2861259	M14	Pull Spindle	470mm	270mm	9t	hydraulic 17t
KL-0039-1914-1	2360667	M14	Pull Spindle	590mm	390mm	9t	hydraulic 17t
KL-0039-2016-1	2362120	M16	Pull Spindle	395mm	-	13t	mechanical
KL-0040-2241	2369826	M16	Pressure Spindle	350mm	Ø 20,5	13t	hydraulic 10t
KL-0040-2242-1	2369850	M16	Pull Spindle	590mm	380mm	13t	hydraulic 10t
KL-0039-1916-1	2360918	M16	Pull Spindle	590mm	390mm	13t	hydraulic 17t
KL-0039-2018-1	2362252	M18	Pull Spindle	395mm	-	16t	mechanical
KL-0040-2545-1	2016885	M18	Pull Spindle	650mm	450mm	16t	hydraulic 17t
KL-0039-2020-1	2694468	M20	Pull Spindle	395mm	-	20t	mechanical
KL-0039-1930	2088185	M20	Pressure Spindle	350mm	Ø 20,5	20t	hydraulic 17t
KL-0039-1931	2088223	M20	Pressure Spindle	405mm	Ø 20,5	20t	hydraulic 17t
KL-0040-3008	1751603	M20	Pull Spindle	290mm	-	20t	mechanical
KL-0039-2030	2362376	M20	Pull Spindle	420mm	-	20t	mechanical
KL-0039-1920-1	1984330	M20	Pull Spindle	590mm	390mm	20t	hydraulic 17t
KL-0040-2846-1	2370972	M20	Pull Spindle	590mm	370mm	20t	hydraulic 28t
KL-0040-2812-1	2370824	M24	Pull-/Pressure Spindle	590mm	370mm	28t	hydraulic 28t
KL-0040-2841-1	2370948	M24	Pull Spindle	650mm	430mm	28t	hydraulic 28t

Quick-Action Clamping Nut

KL-No.	Code	Thread	Type	Overall length
KL-0039-2110-2	2915286	M10x1,25	Quick-Action Clamping Nut	35mm
KL-0039-2112-2	2915367	M12	Quick-Action Clamping Nut	35mm
KL-0039-2114-2	2915502	M14	Quick-Action Clamping Nut	35mm
KL-0039-2116-2	2915669	M16	Quick-Action Clamping Nut	40mm
KL-0039-2120-2	2915758	M20	Quick-Action Clamping Nut	40mm



Clamping- / Pressure Nut

KL-No.	Code	Thread	Type	Overall length
KL-0039-1910-2	2360438	M10x1,25	Clamping Nut	31mm
KL-0039-1912-3	2705664	M12	Clamping Nut	15,5mm
KL-0039-1912-2	2360543	M12	Clamping Nut	31mm
KL-0043-1105	1860739	M14	Clamping Nut	17mm
KL-0039-1914-2	2360780	M14	Clamping Nut	31mm
KL-0040-2543-2	1858629	M14	Clamping Nut	31mm
KL-0039-1916-2	2361027	M16	Clamping Nut	35mm
KL-0039-1916-3	2727633	M16	Clamping Nut	65mm
KL-0039-1918-2	2361140	M18	Clamping Nut	35mm
KL-0040-3009	1751611	M20	Clamping Nut	50mm
KL-0041-3812	2372886	M20	Conical Clamping Nut	70mm
KL-0039-1920-4	2361264	M20	Conical Clamping Nut	80mm
KL-0040-2812-3	2370832	M24	Clamping Nut	53mm
KL-0040-2812-2	2144700	M24	Conical Clamping Nut	70mm
KL-0040-2812-5	3052346	M24	Clamping Nut	73mm



Use of Spindle Spindle, Quick-Action Clamping Nut, Clamping-/Pressure Nut



		Drive (Spindle and Nut)															
Part No.	Thread	Hydraulic Drive										Mechanical Drive					
Pull Spindle		KL-0039-1910	KL-0039-2110	KL-0039-2112	KL-0039-2114	KL-0039-2116	KL-0040-2242	KL-0039-2120	KL-0039-1920	KL-0040-2812	KL-0040-2841	KL-0039-2210	KL-0039-2212	KL-0039-2214	KL-0039-2216	KL-0039-2018	KL-0039-2220
KL-0039-1910-1	M10x1.25	X	X														
KL-0039-2010-1	M10x1.25											X					
KL-0039-1912-1	M12			X													
KL-0039-2012-1	M12												X				
KL-0039-1914-1	M14				X												
KL-0039-2014-1	M14													X			
KL-0039-1916-1	M16					X											
KL-0039-2016-1	M16														X		
KL-0040-2242-1	M16						X										
KL-0039-2018-1	M18															X	
KL-0039-1920-1	M20							X	X								
KL-0039-2020-1	M20																X
KL-0040-2812-1	M24									X							
KL-0040-2841-1	M24										X						
Quick-Action Clamping Nut																	
KL-0039-2110-2	M10x1.25		X									X					
KL-0039-2112-2	M12			X									X				
KL-0039-2114-2	M14				X									X			
KL-0039-2116-2	M16					X									X		
KL-0039-2120-2	M20							X									X
Clamping Nut																	
KL-0039-1910-2	M10x1.25	X										X					
KL-0039-1912-2	M12												X				
KL-0039-1914-2	M14													X			
KL-0039-1916-2	M16						X								X		
KL-0039-1918-2	M18															X (2)	
KL-0040-3009	M20								X								X
KL-0040-2812-3	M24									X	X						

KL-0040-2812-5 [Code 3052346]

Pressure Nut, M24, Ø 20.5mm



KL-0174-3701 [Code 3066096]

Thrust piece, short

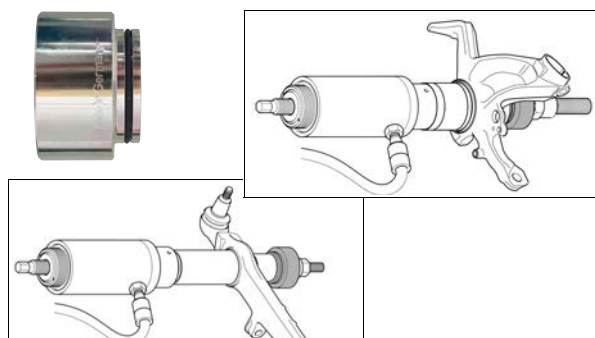
Suitable for Pressure Nut KL-0040-2812-5.

The thrust piece is needed to push cardan shafts out of the wheel hub.

Technical Data:

Overall length:	34.5mm
External Ø:	30mm
Internal Ø:	20.5mm





KL-0039-1002

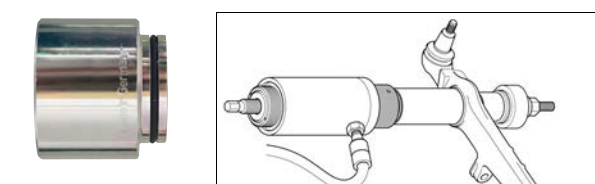
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Retaining Adaptor, for Clamping Nut and Pressure Spindle

This adaptor is needed to use the clamping nut and pressure spindle in conjunction with the various press/support sleeves of the **KL-0039-..** and **KL-0043-.. Series**.
Retaining Ø for clamping nut or pressure spindle: 20mm.

Scope of Delivery: KL-0039-1002 Retaining Adaptor

Part No.	Description	Qty
KL-0039-1002-1	Retaining Adaptor without O-Ring, for Clamping Nut and Pressure Spindle	1
KL-0039-1001-2	O-Ring, Ø 37x2.5mm	1
KL-0043-8205	O-Ring, Ø 30x3mm	1



KL-0039-1003

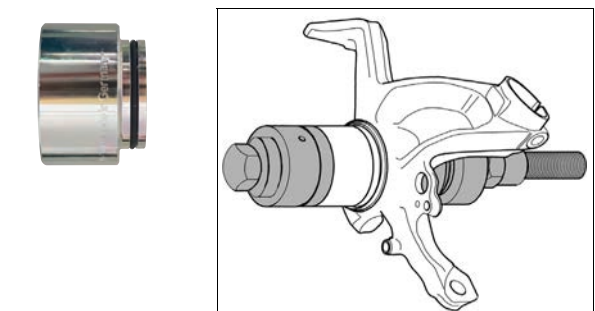
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Retaining Adaptor, for Hydraulic Cylinder

This adaptor is needed to use the **KL-0040-2500** hydraulic cylinder in conjunction with the various press/support sleeves of the **KL-0039-..** and **KL-0043-..Series**.

Scope of Delivery: KL-0039-1003 Retaining Adaptor, for Hydraulic Cylinder

Part No.	Description	Qty
KL-0039-1003-1	Retaining Adaptor without O-Rings, for Hydraulic Cylinder	1
KL-0039-1001-2	O-Ring, Ø 37x2.5mm	1
KL-0043-8205	O-Ring, Ø 30x3mm	1



KL-0039-1011

[Code 2179202]

Retaining Adaptor for Mechanical Spindle

This adaptor is needed to use the mechanical drive in conjunction with the various press/support sleeves of the **KL-0039-..** and **KL-0043-.. Series**.

The built-in ball bearing allows for accurate and professional working, even under intensive load.



3 pcs.

KL-1002-1010

[Code 2447509]

Drive Set M20 for Hydr. Cyl. with 89mm

Required if a GEDORE Automotive tool is to be driven with an alternative hydraulic cylinder from a third-party manufacturer (such as NIKE® hydraulics) instead of our 17t hydraulic cylinder **KL-0040-2500**.

Scope of Delivery: KL-1002-1010 Drive Set M20 for Hydr. Cyl. with 89mm

Part No.	Description	Qty
KL-1002-1011	Mounting adapter for hydr. cyl. with 89mm mounting diameter	1
KL-1002-1012-1	Draw spindle M20 to UNC 1"-8	1
KL-0040-3009	Clamping nut M20	1

Technical Data:

Max. load:	20t
Length of draw spindle:	590mm
Thread of draw spindle:	M20 to UNC 1"-8



3 pcs.

KL-1002-1020

[Code 2727641]

Drive Set M16 for Hydr. Cyl. with 89mm

Required if a GEDORE Automotive tool is to be driven with an alternative hydraulic cylinder from a third-party manufacturer (e.g. NIKE® hydraulics) instead of our 17t hydraulic cylinder **KL-0040-2500**.

Scope of Delivery: KL-1002-1020 Drive Set M16 for Hydr. Cyl. with 89mm

Part No.	Description	Qty
KL-1002-1011	Mounting adapter for hydr. cyl. with 89mm mounting diameter	1
KL-1002-1016-1	Draw spindle M16 to UNC 1"-8	1
KL-0039-1916-3	Clamping nut M16	1

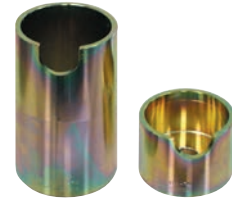
Technical Data:

Max. load:	13t
Length of draw spindle:	590mm
Thread of draw spindle:	M16 to UNC 1"-8

KL-1010-1010 (Code 2448114)

Drive Sleeve Set, Ø 70mm

2 pcs.



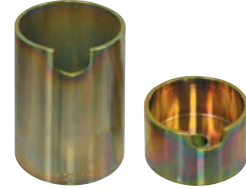
Scope of Delivery: KL-1010-1010 Drive Sleeve Set, Ø 70mm

Part No.	Description	Qty	External Ø	Internal Ø
KL-1010-1001	Support Sleeve, long, Ø 70mm	1	79.5mm	70mm
KL-1010-1006	Support Sleeve, short, Ø 70mm	1	79.5mm	70mm

KL-1010-1030 (Code 2448130)

Drive Sleeve Set, Ø 90mm

2 pcs.



Scope of Delivery: KL-1010-1030 Drive Sleeve Set, Ø 90mm

Part No.	Description	Qty	External Ø	Internal Ø
KL-1010-1003	Support Sleeve, long, Ø 90mm	1	99.5mm	90mm
KL-1010-1004	Support Sleeve, short, Ø 90mm	1	99.5mm	90mm

KL-0040-175 B (Code 2933292)

Hydraulic Drive Tool Kit with Safety Belt

6 pcs.

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 EA** and a hydraulic pump equipped with a GEDORE Automotive pressure gauge. The hydraulic cylinder with shoulder nut 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 of the hydraulic pump allows the applied force to be monitored during the extraction process. The safety belt included in the kit is fixed to the vehicle and to the hydraulic cylinder to secure the latter against falling.

Technical Data: KL-0040-1700

Maximum admissible force:	170kN (17t)
Maximum stroke:	15mm
Maximum oil volume:	41cm ³
Maximum oil pressure:	700bar
Piston area:	27cm ²
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

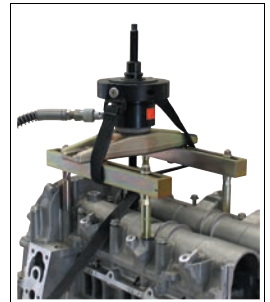
Technical Data: KL-0583-1032 H

Connection thread:	M14x1.5
Length:	315mm



Necessary Accessories:

KL-0215-35 M25 Hydraulic Pump



Scope of Delivery:

KL-0040-175 B Hydraulic Drive Tool Kit with Safety Belt

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-0583-1005 HA	Pull Spindle, M17x1, with Nut, 315mm long	1
KL-0583-1032 H	Pull Spindle, M14x1.5, 315mm long	1

Hydraulic Cylinder 17t + Accessories

KL-0040-2500 (Code 1751441)

Hydraulic Cylinder, 17t

17 t

Thanks to its special design as a hollow piston cylinder, the **KL-0040-2500** hydr. cyl. (17t) can be used to perform pulling as well as pushing operations, in conjunction with the corresponding spindle (available separately as accessories).

Technical Data:

Maximum admissible force:	170kN (17t)
Maximum stroke:	45mm
Maximum oil pressure:	700bar
Maximum volume of oil:	122cm ³
Piston area:	27cm ²
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



Range of Use:

In conjunction with various GEDORE Automotive tools, the 17t hydraulic cylinder **KL-0040-2500** can be used for the removal and installation of drive shafts, wheel hubs, wheel bearings, silentblobs and suspension ball joints.

Necessary Drive Parts:

KL-0215-35 M25 Hydraulic Pump



17 t

KL-0040-2520

[Code 1787136]

Adaptor, 3/8", NPT to 1/4" NPT

Suitable for GEDORE Automotive, Longus, Rodcraft etc.

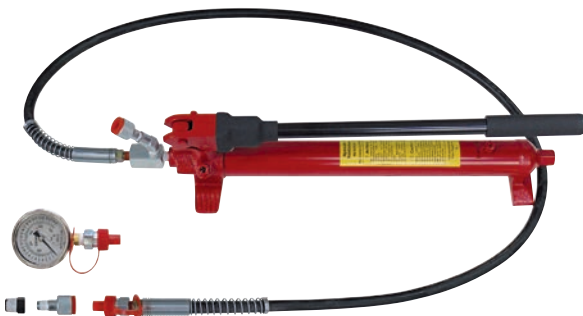


17 t

KL-0215-321

[Code 1880462]

Coupling Half, 1/4" (Hose Side)



17 t

5 pcs.

KL-0215-35 M25

[Code 2478641]

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-0040-1700** (included in **KL-0040-175 B**) respectively.

When operating the pump, the hydraulic pressure and necessary force can be monitored at pressure gauge (supplied with the tool set). The pressure gauge features an additional tonne scale specifically adapted to our 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:	700 bar



17 t

5 pcs.

KL-0215-36 M25

[Code 2478706]

Hydraulic Pump (Pneumatic)

The pneumatic hydraulic pump **KL-0215-36 M25** can be used to drive a hydraulic cylinder.

Compressed air is used to power the hydraulic pump.

The pump is operated by a foot pedal with 3 functions for: advance/hold/retract.

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:	700 bar
Operating Pressure:	8-12 bar
Weight:	8kg



17 t

KL-0040-258 A

[Code 2707497]

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.

Recommended Accessory:

KL-0040-2881 Clamp Ring (to extend the use of the device to hydra. cyl. **KL-0040 2800**)

KL-0040-2571 Adaptor Sleeve, Ø 25mm

Technical Data:

Retaining Ø:	30mm
Weight:	2.6kg

Scope of Delivery: KL-0040-258 A Retaining Device for Hydr. Cyl. 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

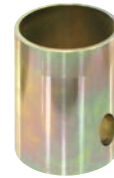


KL-0040-2571 (Code 2915103)

Adaptor Sleeve, Ø 25mm

This adaptor is needed to use the retaining device **KL-0040-258 A** or the supporting device for control arm **KL-0145-120 A** in conjunction with a transmission jack having a plunger with Ø of 25mm.

17 t

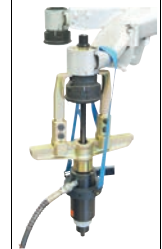


KL-0040-2590 (Code 1804073)

Safety Belt for Hydraulic Cylinder (17t)

Thanks to the **KL-0040-2590** safety belt which is fastened to the vehicle and to the **KL-0040-2500** hydraulic cylinder, the latter can be secured against falling.

17 t



Hydraulic Cylinder 28t + Accessories

KL-0040-2800 (Code 2016893)

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 as well as pushing operations, in conjunction with the corresponding spindles available as accessories.

Technical Data:

Maximum admissible force:	285kN (28t)
Maximum stroke:	50mm
Maximum volume of oil:	216.3cm ³
Maximum oil pressure:	700 bar
Piston area:	40.6cm ²
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

28 t



Range of Applications:

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.

Required Accessories: KL-0215-35 M28 Hydraulic Pump

KL-0215-35 M28 (Code 2478676)

Hydraulic Hand Pump

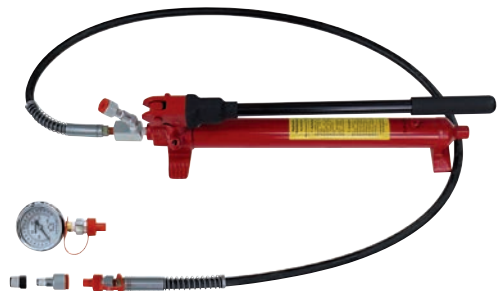
The **KL-0215-35 M28** hydraulic hand pump is designed to be used as a drive for the hydr. cyl. **KL-0040-2800**. While operating the pump, the hydraulic pressure and necessary force can be monitored at pressure gauge (supplied with the tool set). The pressure gauge features an additional tonne scale which is specifically adapted to our hydr. cyl. (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

5 pcs.

28 t



Technical Data:

Weight:	7.5kg
Max. Pressure:	700 bar

KL-0215-36 M28 (Code 2478730)

Hydraulic Pump (Pneumatic)

The pneumatic hydraulic pump **KL-0215-36 M28** is designed to be used as a drive for hydraulic cylinder. 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.

Scope of Delivery: KL-0215-36 M28 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-0127-1002	Fitting	1
KL-0040-2829	Pressure Gauge	1

5 pcs.

28 t



Advantage: Both hands free to work.

Technical Data:

Maximum Pressure:	700 bar
Operating Pressure:	8-12 bar
Weight:	8kg



28 t

KL-0040-2881

[Code 2922843]

Clamp Ring for Hydraulic Cylinder KL-0040-2800

The **KL-0040-2881** clamp ring is needed for using the **KL-0040-2800** hydraulic cylinder.

Required Accessory: **KL-0040-258 A** Retaining Device for Hydraulic Cylinder



28 t

KL-0040-2890

[Code 2371049]

Safety Belt for Hydraulic Cylinder (28t)

Thanks to the **KL-0040-2890** safety belt which is fastened to the vehicle and the **KL-0040-2800** hydraulic cylinder, the latter can be secured against falling.



KL-0039-1140

[Code 2178923]

Press Frame (Lightweight, Short Design)

Short design, without drive.

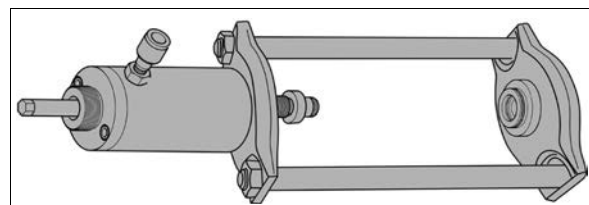
Recommended Accessory: **KL-0039-115** Frame Bars (Pair), 350mm long

Technical Data:

Inner width:	115mm
Inner length:	275mm
Maximum load capacity:	12t
Cylinder connection thread:	2 1/4"-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, 2 1/4"-14 UNS	2
KL-0039-1105	Adaptor with O-Ring, 2 1/4"-14 UNS to Ø 30mm	1



6 pcs.

KL-0039-115

[Code 2293889]

Frame Bars (Pair), 350mm long, with Hex Nuts

Used to adjust the press frame **KL-0039-1140** to an internal length of 350mm. Required, for example, when using a long press sleeve and a long support sleeve of the **KL-0039-17.. Series**.

See chapter 2.2.

KL-1039-111

[Code 3275299]

HGV Press Frame 28t



Retaining thread of
hydraulic cylinder

Retaining thread
of tool set

KL-0040-2855

[Code 2371030]

Adaptor, 2 1/4"-14 UNS to 2 3/4"-16 UN

The adaptor is needed to use the **KL-0040-2800** hydraulic cylinder (or any other hydraulic cylinder having a 2 3/4"-16 UN retaining thread) as a drive for the GEDORE Automotive hydraulic tools featuring a 2 1/4"-14 UNS thread.

Technical Data:

External thread:	2 1/4"-14 UNS
Internal thread:	2 3/4"-16 UN

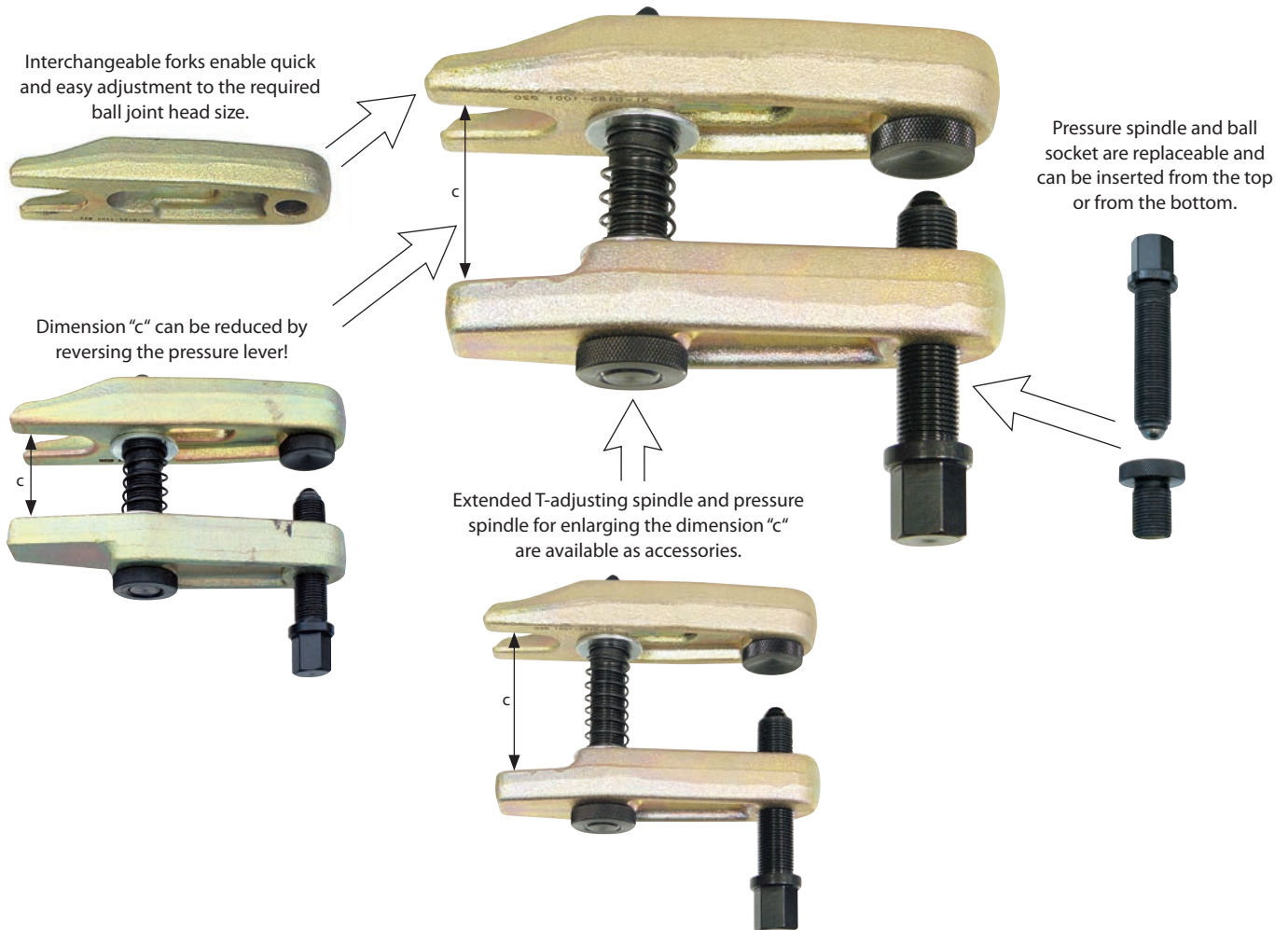
Note: The external thread 2 1/4"-14 UNS measured on the tool set features an internal Ø of 55.15mm. The internal thread 2 3/4"-16 UN measured on the hydraulic cylinder to be screwed in features an external Ø of 69.65mm



Agriculture

KL-0165-Series

Ball Joint Extractors (Patented)



Advantages:

- ☑ 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.
- ☑ Forged pressure lever and fork.
- ☑ Infinitely adjustable to the required pivot pin height.
- ☑ Pressure spindle driven by a 19mm hexagon and provided with a safety shoulder to prevent spanner from slipping.
- ☑ A wide range of forks for the most different kinds of ball joint connections is available as accessories.

KL-0165-3 KA (Code 2801817) Ball Joint Extractor Set (with 6 Forks)

Universally applicable to HGV and light commercial vehicles/vans like MAN, Mercedes, VW, Ford, Scania, Volvo, Landini, John Deere etc.

An indispensable tool set for the quick and easy separation of ball joint connections in axle/suspension and steering systems.

Advantage:

- Variable through separator forks
- High stability
- Ideal release pressure point and adjustable tilting adjustment

Recommended Accessory:

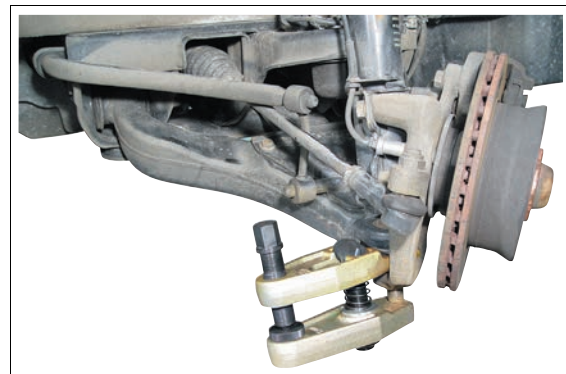
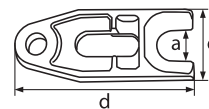
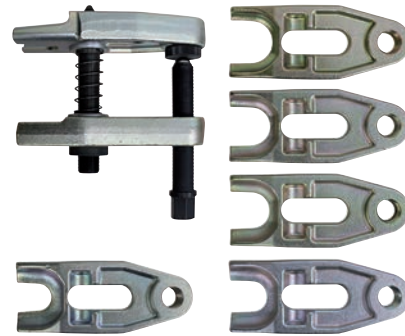
1993 U-20 Reversible Ratchet 1/2"

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	1
KL-0165-3001	Fork Size 3 - a=30mm - e=80mm - d=200mm (results KL-0165-30)	1
KL-0165-3101	Fork Size 3 - a=34mm - e=80mm - d=200mm (results KL-0165-31)	1
KL-0165-3201	Fork Size 3 - a=40mm - e=80mm - d=200mm (results KL-0165-32)	1
KL-0165-3301	Fork Size 3 - a=42mm - e=80mm - d=200mm (results KL-0165-33)	1
KL-0165-3401	Fork Size 3 - a=47mm - e=80mm - d=200mm (results KL-0165-34)	1
KL-0165-3501	Fork Size 3 - a=33mm - e=80mm - d=200mm (results KL-0165-35)	1
KL-0165-3090 A	Plastic Storage Case	1

7 pcs.



KL-0165-30 (Code 2401959) Ball Joint Extractor, Size 3

Suitable for use on MAN, Landini tractors, etc.
(Fork opening a=30mm)

The KL-0165-30 ball joint extractor is the ideal tool for separating ball joint connections in axle/suspension and steering systems.

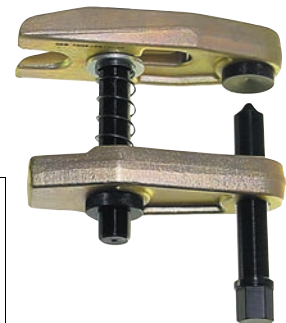
Recommended Accessory: 1993 U-20 Reversible Ratchet 1/2"

Scope of Delivery:

KL-0165-30 Ball Joint Extractor, Size 3

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	1

2 pcs.



KL-0165-31 (Code 2402076) Ball Joint Extractor, Size 3

Suitable for use on MAN, Mercedes, Ford, etc.; for example Mercedes Actros thrust rods. (Fork opening a=34mm)

The KL-0165-31 ball joint extractor is the ideal tool for separating ball joint connections in axle/suspension and steering systems.

Recommended Accessory: 1993 U-20 Reversible Ratchet 1/2"

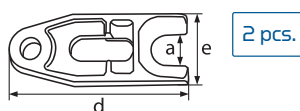
Scope of Delivery:

KL-0165-31 Ball Joint Extractor, Size 3

Part No.	Description	Qty
KL-0165-300	Base Tool without Fork (Spindle M24x1.5)	1
KL-0165-3101	Fork - a=34mm - e=80mm - d=200mm	1

2 pcs.





KL-0165-32 [Code 1810960]

Ball Joint Extractor, Size 3

Suitable for use on Mercedes, MAN, Scania, Volvo, etc.; for example Mercedes Actros drop arm. (Fork opening a=40mm)

The **KL-0165-32** ball joint extractor is the ideal tool for separating ball joint connections in axle/suspension and steering systems.

Recommended Accessory: 1993 U-20 Reversible Ratchet 1/2"

Scope of Delivery: KL-0165-31 Ball Joint Extractor, Size 3

Part No.	Description	Qty
KL-0165-300	Base Tool without Fork (Spindle M24x1.5)	1
KL-0165-3201	Fork - a=40mm - e=80mm - d=200mm	1



KL-0165-33 [Code 1878115]

Ball Joint Extractor, Size 3

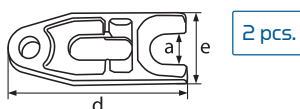
Suitable for use on Mercedes, MAN, Scania, Volvo, etc. and John Deere tractors. (Fork opening a=42mm)

The **KL-0165-33** ball joint extractor is the ideal tool for separating ball joint connections in axle/suspension and steering systems.

Recommended Accessory: 1993 U-20 Reversible Ratchet 1/2"

Scope of Delivery: KL-0165-33 Ball Joint Extractor, Size 3

Part No.	Description	Qty
KL-0165-300	Base Tool without Fork (Spindle M24x1.5)	1
KL-0165-3301	Fork - a=42mm - e=80mm - d=200mm	1



KL-0165-34 [Code 1796208]

Ball Joint Extractor, Size 3

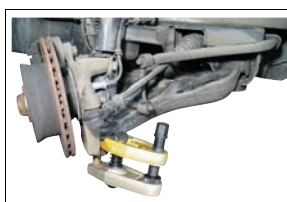
Suitable for use on Mercedes buses, etc. (Fork opening a=47mm)

The **KL-0165-34** ball joint extractor is the ideal tool for separating ball joint connections in axle/suspension and steering systems.

Recommended Accessory: 1993 U-20 Reversible Ratchet 1/2"

Scope of Delivery: KL-0165-34 Ball Joint Extractor, Size 3

Part No.	Description	Qty
KL-0165-300	Base Tool without Fork (Spindle M24x1.5)	1
KL-0165-3401	Fork - a=47mm - e=80mm - d=200mm	1



KL-0165-35 [Code 1753614]

Ball Joint Extractor, Size 3

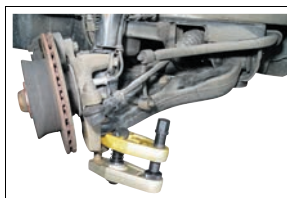
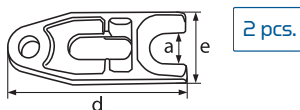
Suitable for use on suspension ball joints found on Mercedes Sprinter (1995 onwards) and VW LT (1998 onwards); upper ball joints on VW T4, stabiliser ball joints on Mercedes Citaro EvoBus O 530 etc. (Fork opening a=33mm)

The **KL-0165-35** ball joint extractor is the ideal tool for separating ball joint connections in axle/suspension and steering systems.

Recommended Accessory: 1993 U-20 Reversible Ratchet 1/2"

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-0165-36 [Code 2822997]

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=40mm)

The **KL-0165-36** ball joint extractor is the ideal tool for separating ball joint connections in axle/suspension and steering systems.

Recommended Accessory: 1993 U-20 Reversible Ratchet 1/2"

Scope of Delivery: KL-0165-36 Ball Joint Extractor, Size 3, 40mm

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-0169-60

(Code 3230295)

Toe Measuring Gauge

Universally applicable to passenger cars, HGVs, LCVs etc.

Allows for quick and simple toe measurement via the inner rim flange or wheel. Telescopic design allows measurement range to be easily adjusted of from 950 to max 1,500mm (expandable to max 2,150mm). Easy-to-read graduated toe scale of from 0 to 40mm.

Recommended Accessory:

KL-0169-61 Extension

Technical Data:

Toe scale:	0-40mm
Measurement range:	950-1,500mm
Measurement range with KL-0169-61:	max. 2,150mm



KL-0169-61

(Code 3230317)

Extension

For extending the measurement range of the **KL-0169-60** toe measuring gauge to 2,150mm.

Necessary Accessories: **KL-0169-60** Toe Measuring Gauge



KL-0169-81

(Code 3245810)

Track Rod Socket, 34mm waf

Applicable to track rods, drag links respectively, with a 34mm (waf) hex nut on the adjusting thread as found on MAN, Mercedes, DAF, Evobus, Iveco, Neoplan, Renault, Scania, Solaris and Volvo HGVs/commercial vehicles.

Particularly useful tool for 4x4 vehicles with offset track rods, drag links respectively.

Designed to facilitate the loosening and adjustment of stiff track rods and drag links respectively. Necessary when adjusting the track rod or changing the track rod end for example.

Its unique two-part design allows the tool to embrace the adjustment hex nut of the track rod/drag link completely. This ensures that the applied force is distributed evenly across the entire hex nut. As a result, the nut is securely held and the risk of the tool slipping/spinning is eliminated.

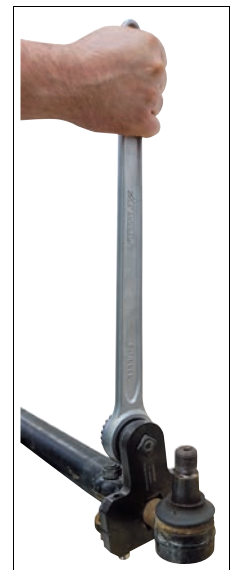
Thanks to this tool, the expensive replacement of the complete track rod and drag link respectively, is no longer necessary.

Recommended Accessory: **3293 U-2** Reversible Ratchet 3/4"

Technical Data:

Size (waf):	34mm
Drive:	3/4"

4 pcs.



KL-0169-82

(Code 3267806)

Track Rod End Removal Socket

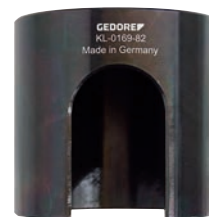
Universally applicable to track rod ends found in HGVs/LGVs, buses and tractors. For example: MAN, Mercedes-Benz, Neoplan, Renault Trucks, Iveco, Scania, Volvo, DAF, Deutz-Fahr, IHC, Case IH, JCB, Evobus and Kässbohrer.

For the quick and professional removal and installation of track rod ends. Required to loosen and release the track rod end from the track rod properly when adjusting/changing the track rod end for example.

The heavy-duty socket slips over the complete track rod end, thus enabling a great amount of force to be applied with the aid of a 3/4" ratchet. Thus, even stiff or corroded track rod ends are no longer an issue.

Thanks to this tool, the expensive replacement of the complete track rod / drag link can be avoided.

Recommended Accessory: **3293 U-2** Reversible Ratchet 3/4"



Technical Data:

Drive:	3/4"
Height (internal):	70mm
Diameter (internal):	80mm
U-shaped slot:	65 x 40mm
Height (external):	90mm
Diameter (external):	95mm

THE TORQUE MULTIPLIER

SERIES LKV, 100 - 2800 Nm

Lightweight, high-performance aluminium housing is 30 % lighter than a steel one



Fixed reaction arm in straight or cranked version



Output square as overload protection for gear unit protection



Supplied with individual GEDORE factory calibration certificate



Series LKV-20L/ 28L



Scope of delivery

- › Device
- › Reaction arm cranked or straight (screwed to the device)
- › Tool box
- › Operating Instructions
- › Factory calibration certificate
- › Torque calculator



Replacement parts

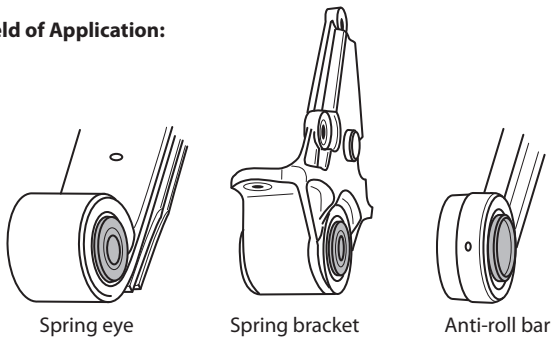
- › Replacement square drive for LKV-20
- › Replacement square drive for LKV-28



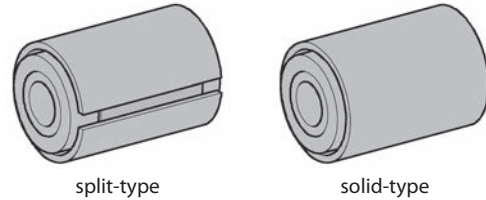
KL-1010-Series Pulling Devices for HGV Silentblocs

(German Utility Model)

Field of Application:



Silentblocs:



The replacement of split-type silentblocs is still a challenging task for the automotive mechanic as this type of silentbloc not only is difficult to remove but also needs to be installed under high preload conditions.

The GEDORE Automotive pulling devices for HGV silentblocs of the **KL-1010-Series** allow for the quick, professional and safe removal and replacement of split-type silentblocs as found on stabilizers, thrust rods, leaf spring eyes, spring brackets and other axle suspension components. The pulling devices are designed to be used in conjunction with a hydraulic pump such as the **KL-0215-35 M25** (with hose, coupling, adaptor and pressure gauge included).

The removal and installation of the silentblocs can be carried out at a work bench or in situ on the vehicle if space conditions allow.

Based on the tried and tested GEDORE Automotive Modular System, the pulling devices are each composed of a set of sleeves and the corresponding drive tool kit.

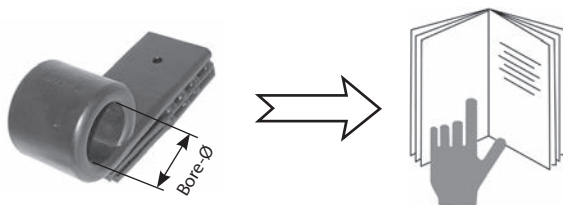
The big advantage of the unique GEDORE Automotive Modular System is that it requires substantially fewer single parts for more diameters and applications than conventional silentbloc tools (==> high cost savings).

Advantages:

- Substantial time and cost savings
- Tools are easy to use.
- The **KL-0040-2500** (17t) hydraulic cylinder can universally be used on other GEDORE Automotive tools.

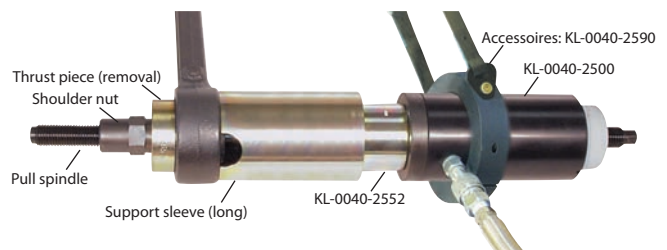
Application example / procedure:

1. Identify bore diameter and select the appropriate tool from the table:



2. Silentbloc Removal:

Assemble/mount pulling device as shown below and extract silentbloc by operating the hydraulic pump.



3. Silentbloc Installation ==> pre-tensioning the new silentbloc:

Assemble/mount pulling device and insert new silentbloc into conical sleeve. Silentbloc will be pre-tensioned via the sleeve inner cone. The spring-loaded thrust piece ensures accurate support throughout the whole working process.



4. Silentbloc Installation:

Assemble/mount pulling device and insert pre-tensioned silentbloc into bore.




3/4"


Recommended Accessory:
3293 U-2 Reversible Ratchet 3/4"

KL-4043-4232

(Code 2910748)

Socket, EP32, 90mm

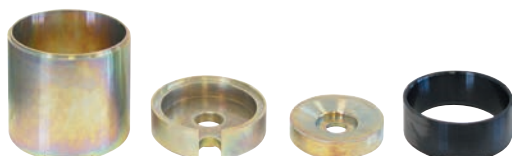
Suitable for screw-fitted connections (with Torx-Plus® Profile) on axle components at Mercedes HGVs/commercial vehicles. Can be found, for example, in Actros MP4 etc.

Alternative tools: W 963 589 00 09 00

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



4 pcs.

KL-1011-111

(Code 2450178)

Set of Sleeves for SAF HGV Silentbloc Ø 139mm

Suitable for silentblocs with Ø of 139mm as found on SAF INTRADISC plus air suspension axles.

The sleeve set **KL-1011-111** allows the quick, professional and safe removal and installation of the specified silentblocs on axle suspensions.

Necessary Drive Parts (cf. Chapter Drives):

Hydraulic Drive (28t):

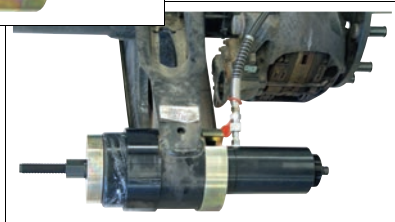
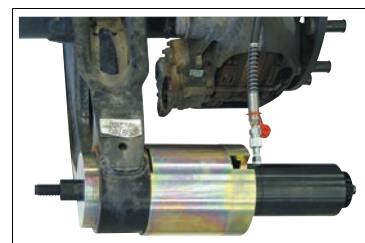
KL-0040-2800 Hydraulic Cylinder 28t, **KL-0215-35 M28** Hydraulic Pump, **KL-0040-2841** Pull Spindle with Nut

Hydraulic Drive (17t):

KL-0040-2500 Hydraulic Cylinder 17t, **KL-0215-35 M25** Hydraulic Pump, **KL-0039-1920-1** Pull Spindle, **KL-0040-3009** Clamping Nut, **KL-0039-1002** Retaining Adaptor, **KL-0039-1340** Centring Ring

Scope of Delivery: KL-1011-111 Set of Sleeves for SAF HGV silentbloc Ø 139mm

Part No.	Description	Qty
KL-1011-1101	Conical Sleeve, Ø 139mm	1
KL-1011-1102 A	Thrust Piece	1
KL-1011-1103	Support Sleeve	1
KL-1011-1104	Cap	1



4 pcs.

KL-1001-101 A

(Code 3289184)

Sleeve Set for Commercial Vehicle Silent Blocks 57 + 68mm Ø

Suitable for silent blocks with bores of 57 + 68mm diameter. Particularly suitable e.g. for parabolic control arms on ROR, SAF, Trailer trailers and semi-trailers, and BPW semi-trailers with ECO PLUS 2 axle and compressed-air suspension.

The sleeve set enables the quick and professional removal and installation of closed silent blocks, e.g. on parabolic control arms, stabilisers, thrust struts, leaf spring eyes, spring brackets, and other axle suspension parts.

Recommended Accessory:

KL-1010-1205 Thrust piece 59mm Ø (for BPW silent blocks with 60mm bore diameter and M24 screw)

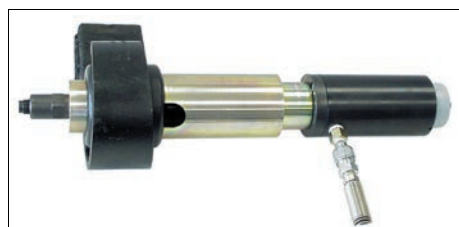
Necessary Drive Parts (cf. Chapter Drives):

KL-0040-2500 Hydraulic Cylinder (17t), **KL-0215-35 M25** Hydraulic Pump, **KL-0039-1003** Retaining Adaptor, **KL-0039-2120** Pull Spindle + Quick-Action Clamping Nut

Max. load of sleeve set:	20t
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Scope of Delivery: KL-1001-101 A Sleeve set for commercial vehicle silent blocks

Part No.	Description	Qty
KL-1010-1001	Support sleeve, long (removal)	1
KL-1010-1006	Support sleeve, short (installation)	1
KL-1001-1003	Thrust piece 66mm Ø	1
KL-1001-1013	Thrust piece 55mm Ø	1



KL-1001-251 A (Code 2546507) Set of Sleeves for Drawbar Silentbloc

Suitable for silentblocs with Ø of 57mm as found on "Regensburger" HGV trailer drawbars.

The **KL-1001-251 A** sleeve set allows for the quick and easy removal and replacement of HGV trailer drawbar silentblocs.

Necessary Drive Parts (cf. Chapter Drives):

Hydraulic Drive (28t):

KL-0040-2800 Hydraulic Cylinder (28t), **KL-0215-35 M28** Hydraulic Pump, **KL-0040-2846-1** Pull Spindle, **KL-0039-2120-2** Quick-Action Clamping Nut, **KL-0039-1003** Retaining Adaptor

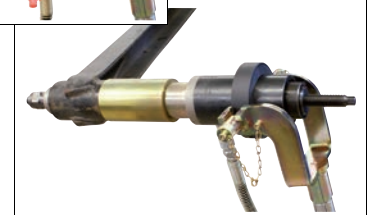
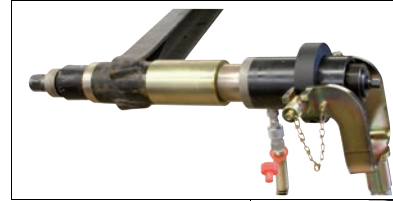
Hydraulic Drive (17t):

KL-0040-2500 Hydraulic Cylinder (17t), **KL-0215-35 M25** Hydraulic Pump, **KL-0039-2120** Pull Spindle + Quick-Action Clamping Nut, **KL-0039-1003** Retaining Adaptor

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

3 pcs.



KL-1010-120 A (Code 3292592) Pressure Piece/Sleeve Set, Ø 60mm

Suitable for split-type silentblocs with 60mm Ø (removed 62mm Ø); e.g. Mercedes Actros leaf spring front silentbloc and Renault silentblocs (No. 74 82 054 079, 50 10 557 875, 74 20 839 455, 74 21 622 369, 74 21 646 217 and 74 20 929 989) as found on Renault Midlum / D, Premium / T, Magnum / T, Kerax / C; DAF 65 CF, 75 CF, 85 CF, LF55; Volvo FE, FM, FH, FMX Leaf spring and bearing bracket.

The pressure piece/sleeve set allows for the fast, professional and safe replacement of split-type silentblocs on anti-roll bars.

Necessary Drive Parts (cf. Chapter Drives):

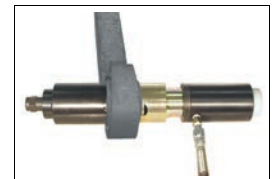
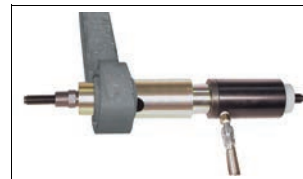
Hydraulic Drive (17t):

KL-0040-2500 Hydraulic Cylinder (17t), **KL-0215-35 M25** Hydraulic Pump, **KL-0039-1920-1** Pull Spindle, **KL-0039-2120-2** Quick-Action Clamping Nut, **KL-0039-1003** Retaining Adaptor, **KL-1010-1010** Drive Sleeve Set (Ø 70mm)

Hydraulic Drive (28t):

KL-0040-2800 Hydraulic Cylinder (28t), **KL-0215-35 M28** Hydraulic Pump, **KL-0040-2846-1** Pull Spindle (M20x590), **KL-0039-2120-2** Quick-Action Clamping Nut, **KL-0039-1003** Retaining Adaptor, **KL-1010-1010** Drive Sleeve Set (Ø 70mm)

2 pcs.



Scope of Delivery:

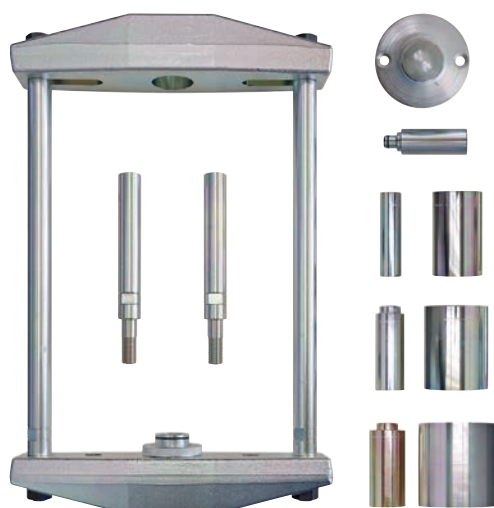
KL-1010-120 A Pressure Piece/Sleeve Set, Ø 60mm

Part No.	Description	Qty
KL-1010-1201	Conical Sleeve, Ø 60mm	1
KL-1010-1205	Pressure Piece (removal), Ø 60mm	1

Note:

Further thrust piece/sleeve sets can be found in chapter 2.2 (suspension joints, bearings, and bushings) from page 16 onwards.





12 pcs.

KL-1039-111

(Code 3275299)

HGV Press Frame 28t

Universally fits commercial vehicles, construction machines, agricultural machines, trailers and semitrailers.

The **KL-1039-111** press frame is designed for simple, fast and safe pressing in and removal of bushes, bearings and bolts in the commercial vehicle sector.

For example, on extension arms, tippers, deposit tippers, lifting arms, hook lift systems, chassis parts and much more. With additional pressure/support sleeves from the **KL-0039 Series** this can easily be supplemented with further diameters.

The bearing base included in the scope of delivery also allows the mobile NFZ press frame to be placed e.g. on a workbench, as well as for stationary use as a light-weight stand press for on the road, e.g. in commercial vehicle service or repair vehicles.

The length and width of the NFZ press frame can also be quickly adjusted using the extension rods and the holes in the base plates.

Required Drive Parts:

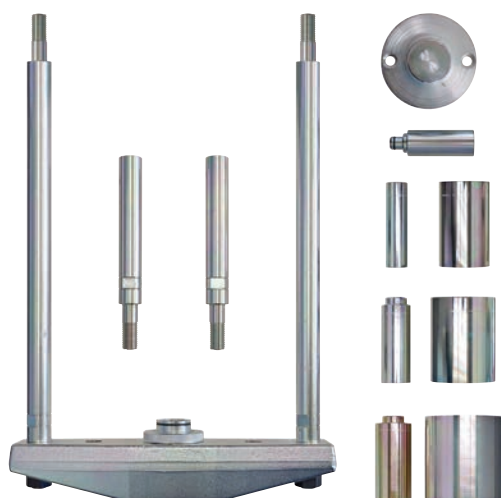
KL-0215-35 M28 Hydraulic Pump, **KL-0040-2800** Hydraulic Cylinder 28t, **KL-0040-2812-1** Tension / Compression Spindle, **KL-0039-1002** Mounting adapter, **KL-0040-2812-5** Thrust Nut

Technical Data:

Inner width 1:	180mm
Inner width 2:	250mm
Inner width 3:	320mm
Inner length 1:	500mm
Inner length 2:	700mm
Load max.:	28t
Cylinder mounting thread:	2 3/4"-16 UN

Scope of Delivery:KL-1039-111 Press Frame 28t

Part-No.	Description	Qty
KL-1039-1101	Base plate 2 3/4"-16 UN	1
KL-1005-1011	Base plate 2 3/4"-16 UN	1
KL-1039-1102	Pull rod M22	2
KL-1005-1014	Hex collar nut M22	4
KL-1039-1105	Adapter 2 3/4"-16 UNS to 30mm diameter	1
KL-1039-1103	Extension for pull rod M22	2
KL-1039-1106	Extension for thrust nut M22	1
KL-1039-1107	Bearing base	1
KL-1039-7110	Pressure/support sleeve, long, 110/102mm diameter	1
KL-0039-1790	Pressure/support sleeve, long, 90/82mm diameter	1
KL-0039-1770	Pressure/support sleeve, long, 70/62mm diameter	1
KL-0039-1750	Pressure/support sleeve, long, 50/42mm diameter	1
KL-0039-1740	Pressure/support sleeve, long, 40/32mm diameter	1
KL-0039-1730	Pressure/support sleeve, long, 30/22mm diameter	1



12 pcs.

KL-1039-1111

(Code 3275280)

Supplement KL-1005-100 A to HGV Press Frame 28t

Description see **KL-1039-111**.

Required parts from KL-1005-100 A:

KL-1005-1011 Base plate, **2x KL-1005-1014** SK collar nut.

Required drive parts:

KL-0215-35 M28 Hydraulic pump, **KL-0040-2800** Hydraulic cylinder 28t, **KL-0040-2812-1** Traction / pressure spindle, **KL-0040-2812-5** Pressure nut, **KL-0039-1002** Mounting adapter

KL-1005-100 A [Code 3283666] Wheel Hub Puller Kit, HGV

Universally suitable for use on HGV wheel hubs (as well as on wheel hubs with integrated compact wheel bearing) with removable hubcap on axle systems with pitch circle Ø of 8x275mm, and 10x335mm respectively, at front and rear axle systems from BPW, SAF, ZF.

Applications: Mercedes-Benz (Actros [rear axle only]) (Citaro Bus [ZF axle]), MAN (TGA [rear axle only]), Renault, Volvo, Iveco, Scania, DAF etc.

This wheel hub puller kit allows you to professionally pull the wheel hub off the drive axle.

The removal of the wheel hub takes place via the wheel studs. The different pressure pieces are used to provide central support via the axle tube.

The kit allows even heavily seized/stuck wheel hubs to be pulled off with ease. For this, the 28t hydraulic cylinder and hand pump (accessories) are needed in addition.

Necessary Drive Parts:

KL-0040-2812-1 Pressure Spindle (M24), **KL-0040-2812-5** Clamping Nut, **KL-0039-1002** Retaining Adaptor, **KL-0040-2800** Hydraulic Cylinder (28t), **KL-0215-35 M28** Hydraulic Pum

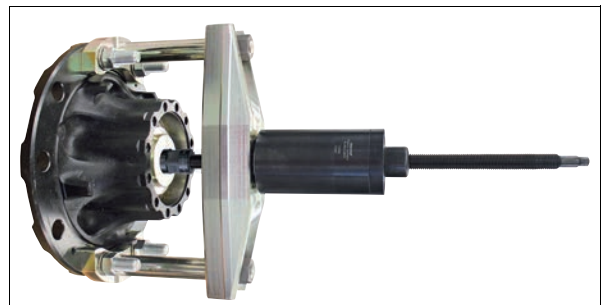
Technical Data:

Max. load capacity of base frame:	28t
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Scope of Delivery: KL-1005-100 A Wheel Hub Puller Kit, HGV

Part No.	Description	Qty
KL-1005-101 A	Base Frame	1
KL-1005-1021	Thrust Piece	1
KL-1005-1022	Press-/Support Sleeve, short, Ø 103/90mm	1
KL-1005-1023	Press-/Support Sleeve, longt, Ø 73/59mm	1

4 pcs.



KL-1005-111 [Code 3257258] Wheel Hub Puller Basic Tool Set

Universally suitable for commercial vehicle wheel hub/bearing units with removable hub cover, for axle systems with a hole circle diameter on the hub of 10x120, 10x122, 10x143, 10x165, 10x168, 12x144, 12x145, 12x164, 12x168, 14x138, 14x144 and for low-loaders on the wheel hub of 10x225. Installed for example for tractors, semi-trailers and low-loaders, such as Mercedes Actros, Antos, Atego, Axor, Econic; Neoplan; MAN F2000, L2000, M2000L, M2000M, TGA, TGM, TGS, TGL, TGX; Renault Magnum, Midlum, Midlum Premium, Midliner CE, M, ME, MS, S, SE; DAF LF45, LF55, LF (Euro 6); Iveco Eurocargo; Volvo FL; VDL Bova bus, city bus; Gigant Protec DNOKH2, Krone; Kögel KTA; low-loader: BPW, Gigant, SAF; SAF Holland axle series SKRLB 9019 W, SKRB 10022; GFA rigid axles; trailers/semitrailers by Kögel, Schmitz Cargobull, Wielton, ZF etc.

The wheel hub puller permits quick and professional removing of wheel hub/bearing units with removable hub caps.

After the hub cap has been removed, the unit is removed via the threaded holes on the hub or, in the case of low-loaders, via the wheel bolts on the wheel hub. Support is provided centrally via the axle tube, using the different thrust discs. The special adapter plate offers universal adaptation to a large number of bolt hole circles that are available on the market.

The 28t hydraulic cylinder, which is available as an accessory, allows even heavily jammed wheel hubs to be removed quickly and easily.

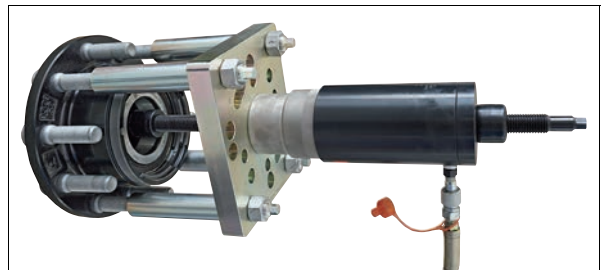
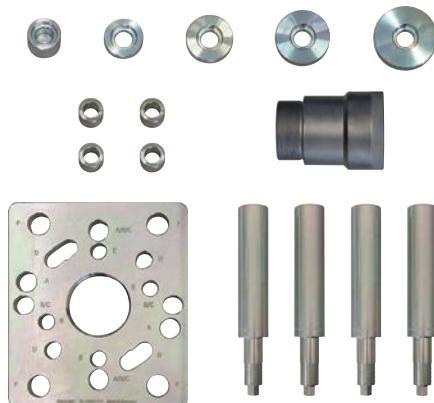
Necessary Drive Parts (cf. Chapter Drives):

KL-0215-35 M28 Hand Pump,
KL-0040-2800 Hydraulic Cylinder 28t,
KL-0040-2812-5 Thrust Nut M24,
KL-0040-2812-1 Pressure Spindle M24

Technical Data:

Max. load:	28t
Hub hole circle:	10x120, 10x122, 10x143, 10x165, 10x168, 12x144, 12x145, 12x164, 12x168, 14x138, 14x144
Wheel hub hole circle for low-loaders:	10x225

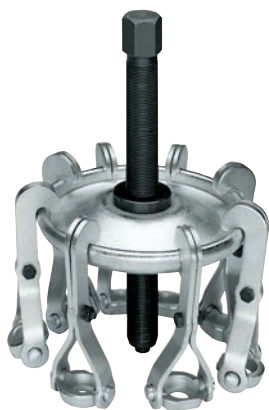
15 pcs.



Scope of Delivery:

KL1005-111 Wheel Hub Puller Basic Tool Set

Part No.	Description	Qty
KL-1005-1111	Adapter plate	1
KL-1005-1112	Extension 234"	1
KL-1005-1113	Adapter spindle low-loader M22x1.5	4
KL-1005-1114	Intermediate sleeve	4
KL-1005-1115	Thrust disc short	1
KL-1005-1116	Thrust disc diameter 48mm	1
KL-1005-1117	Thrust disc diameter 58mm	1
KL-1005-1118	Thrust disc diameter 68mm	1
KL-1005-1119	Thrust disc diameter 78mm	1



1.62/8

[Code 8026030]

Wheel Hub Puller

- For hole pitch diameters between 150 and 350mm
- With wheel stud protection using rotating nut apertures that always lie flat to the hub for Ø 22mm and suitable reduction bushing Ø 14 and 18mm
- 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 hook

Technical Data:

Number of hooks:	8
Spindle:	G1x310
Drive Size (waf):	36mm
Weight:	12.6kg



KL-1021-12

[Code 2883635]

Oil Drain Pan for Drive Axle

Universally suitable for use on HGV full-floating axles as found on Mercedes, MAN, Volvo, DAF, Scania, Iveco commercial vehicles/trucks etc.

Temperature- and chemical-resistant oil drain pan for collecting waste oil when performing repair work on axles or when removing full-floating axles/drive shafts. The drain pan features a lateral spout to allow waste oil to be safely poured into a suitable container for adequate disposal.

Technical Data:

Suitable for temperature range of:	-40°C to +80°C
For rim-Ø:	min. 350mm
Capacity:	3 litres

3/4"

KL-1023-2095

[Code 2451913]

Hub Cap and Axle Nut Socket,
95mm waf, octagonal

Technical Data:

Weight:	2.27kg
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Applicable to BPW axle systems, e.g. as found on BPW EH.. (6.5-9t); EH.. (6t); EH.. (8-9t); ZR.. (8-9t); H.. (6.5-9t) Konv. / ECO; K.. (8-9t) Konv. / ECO; N.. (6-9t) Konv. / ECO; K.. (6.5t) Konv. / ALU hub; H.. (6-9t) oil lub.

This tool allows for the easy and professional loosening and tightening of hub caps and axle nuts.

Recommended Accessory:

KL-4007-411 Swivel Head Breaker Bar, 980mm, **8571-01** Torque Wrench, 520-1,000Nm

5 pcs.

KL-1029-20 K

[Code 2883627]

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 with the **KL-0215-35** hydraulic hand pump (accessory), thus allowing for the safe loosening/removal of stuck wheels/rims 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.

Scope of Delivery:

- Hydraulic Cylinder
- Coupling half 1/4"NPT (cylinder-side)
- Adaptor 3/8"NPT to 1/4"NPT
- Support Plate
- Thrust Piece 1 (25mm long)
- Thrust Piece 2 (50mm long)
- Thrust Piece 3 (75mm long)

Required Drive Parts: KL-0215-35 M28 or M25 Hydraulic Pump

Technical Data:

Maximum load capacity of the hydraulic cylinder:	10t
Connection thread for hydraulic coupling:	3/8"NPT

KL-0100-6..

Socket, 32mm waf, 400mm, 3/4"

Suitable for wheel nuts found on HGVs/commercial vehicles.

Very useful tool for loosening and tightening wheel nuts on HGVs/commercial vehicles.

Recommended Accessory:

KL-4007-411 Swivel Head Breaker Bar, 980mm, **8571-01** Torque Wrench, 520-1,000Nm

KL-0100-632

[Code 2874229]

Socket, 32mm waf, 400mm, 3/4"

Technical Data:

Size (waf):	32mm
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KL-0100-633

[Code 2874237]

Socket, 33mm waf, 400mm, 3/4"

Technical Data:

Size (waf):	33mm
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3/4"



8563-10

[Code 7691500]

Torque Wrench DREMOMETER

- Controlled screw tightening in the most common range of 155-760Nm / 115-560 lbf-ft
- Classified according to DIN EN ISO 6789-2:2017 Type II Class A, incl. traceable test certificate
- 3/4" square drive with pin-locking mechanism DIN 3120 - B 20, ISO 1174
- Dual scale with a scale graduation of 10Nm and 10 lbf-ft

3/4"



KL-0100-...

Torque-Limiting Socket, HGV

This AccuTorq Torque-Limiting Socket is designed for use with an impact wrench. It works by absorbing excess torque generated by the impact wrench between the 1" drive and the hexagon end into the torsion bar, once the correct torque has been reached.

The AccuTorq Torque-Limiting Socket ensures that no torque greater than the torque value indicated on the socket will be transmitted.

Technical Data:

Drive:	1"
Length:	305mm

KL-0100-36

[Code 1792857]

Torque-Limiting Socket, Size (waf) 32mm/600Nm

KL-0100-37

[Code 1790072]

Torque-Limiting Socket, Size (waf) 32mm/650Nm



1"



KL-0100-41

[Code 2382873]

Torque-Limiting Socket,
Size (waf) 32mm/650Nm

8581-01

[Code 2311267]

Torque Wrench DREMOMETER

- Controlled screw tightening in the range from 600-1,500Nm
- Classified according to DIN EN ISO 6789-2:2017 Type II Class A, incl. traceable test certificate
- 1" square drive with pin-locking mechanism DIN 3120 - B 25, ISO 1174
- Single scale with a scale graduation of 25Nm

1"





1

Clockwise tightening

- ▶ Controlled clockwise tightening; 3/4" output drive; plus clockwise rotating 3/4" add-on ratchet

2

DIN Norm

- ▶ Classified as per DIN EN ISO 6789-2:2017; adjusted to a maximum permissible $\pm 3\%$ deviation and thus with a greater precision than the standard-stipulated $\pm 4\%$

3

Test certificate

- ▶ Torque wrench in the 155-760 N-m tightening range with test certificate; with extension tube

4

Precision

- ▶ Vernier scale - resolution 1.0 N-m

**GEDORE ESSENTIALS**

DREMOMETER SET 8563-N-05

The GEDORE 3/4" torque wrench with extension tube and with a DIN EN ISO 6789:2017-based test certificate permits controlled screw tightening from 155 to 760 N-m and is an optimum drive tool for socket wrench sets. The easy-to-operate torque setting to be fixed to the handle end ensures **precision work**.

Repetition-accurate and precise - thanks to **vernier scale** with magnifying glass and a 1/10 display from which the set torque value can be read off at a glance

Controlled retightening with fixed 3/4" output drive together with clockwise-rotating 3/4" add-on ratchet.

With a $\pm 3\%$ **working accuracy tolerance** from the scale value set, GEDORE DREMOMETER lie above the $\pm 4\%$ requirements of DIN EN ISO 6789-2:2017.



KL-1070-11 (Code 3281590)

Set of Hex Slogging Spanners

Suitable for use on brake calliper bolts with hex profile as found at the front and rear axle of: Mercedes Benz Atego and Actros; MAN TGL; DAF 105 and DAF 106; Renault 12t; Volvo; Iveco Stralis, Daily and Eurocargo; Scania as well as on Kässbohrer buses.

The hex slogging spanner set is designed to ease the loosening/tightening of brake calliper bolts, even in areas difficult to access. The slogging spanners feature a 3/4" square socket and are engraved with a torque conversion formula (necessary due to the extended lever), thus, allowing the user to tighten brake calliper bolts, with the aid of a suitable 3/4" torque wrench, quickly and easily according to manufacturer specifications.

Recommended Accessory:

8563-10 Torque Wrench, 155-760Nm,
600 H-2000 Engineer's Hammer, 2,000g

Technical Data:

Waf size:	18mm, 22mm, 24mm, 26mm, 27mm, 30mm
Profile:	Hex
Square socket:	3/4"

Scope of Delivery:

KL-1070-11 Set of Hexagonal Slogging Spanners

Part No.	Description	Qty
KL-1070-1118	Hex Slogging Spanner, 18mm waf	1
KL-1070-1122	Hex Slogging Spanner, 22mm waf	1
KL-1070-1124	Hex Slogging Spanner, 24mm waf	1
KL-1070-1126 B	Hex Slogging Spanner, 26mm waf	1
KL-1070-1127	Hex Slogging Spanner, 27mm waf	1
KL-1070-1130	Hex Slogging Spanner, 30mm waf	1

6 pcs.

3/4"



KL-1070-12 (Code 3281604)

Set of Bi-Hex Slogging Spanners

Suitable for use on bolted connections with bi-hex profile at the cardan shaft as found on MAN, Mercedes-Benz, Renault, Volvo and DAF.

Also applicable to brake calliper bolts with bi-hex profile on BPW and SAF axles.

The slogging spanners are designed to ease the loosening/tightening of bolted connections at cardan shafts and brake callipers. The ideal tools for applications where access is difficult.

The slogging spanners feature a 3/4" square socket and are engraved with a torque conversion formula (necessary due to the extended lever), thus, allowing the user to tighten the bolts - by means of a suitable 3/4" torque wrench - quickly and professionally in accordance with the manufacturer's specifications.

Recommended Accessory:

8563-10 Torque Wrench, 155-760Nm,
600 H-2000 Engineer's Hammer, 2,000g

Technical Data:

Waf size (bi-hex):	19mm, 21mm, 24mm
Profile:	Hex
Square socket:	3/4"

Scope of delivery:

KL-1070-12 Set of Bi-Hex Slogging Spanners

Part No.	Description	Qty
KL-1070-1219	Bi-Hex Slogging Spanner, 19mm waf	1
KL-1070-1221	Bi-Hex Slogging Spanner, 21mm waf	1
KL-1070-1224	Bi-Hex Slogging Spanner, 24mm waf	1

3 pcs.

3/4"




3/4"

KL-4007-411

[Code 2941554]

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
Max load:	1,050Nm



Technical Data:

For air line Ø:	6, 8, 10, 12, 16mm
Length:	280mm

KL-0190-55

[Code 3036324]

Locking Pliers for Air Lines

Universally suitable for use on plastic compressed air lines having an external Ø of 6, 8, 10, 12 or 16mm as found on HGVs and buses.

The pliers allow plastic compressed air lines to be securely held without any risk of damage, for example, when mounting line connectors/fittings that need to be hammered down into the air brake line.



Technical Data:

Length:	535mm
Weight:	1,150g

KL-0114-22

[Code 1858076]

Brake Shoe Spring Pliers, HGV

Heavy-duty design. Suitable for HGV pneumatic and hydraulic drum brake systems. Designed for the removal and installation of brake shoe return springs.



Technical Data:

Length:	260mm
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8726

[Code 6770780]

Brake Calliper File

For cleaning brake callipers before installing new brake pads. The file features one rough, diagonally milled side with bevelled edges.



Technical Data:

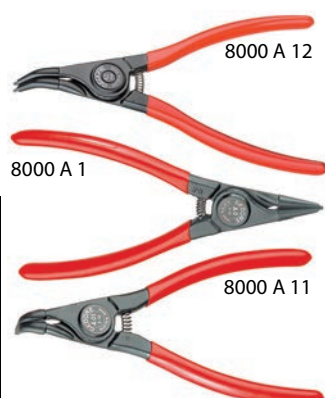
Length:	220mm
Bristle length:	21mm

643

[Code 6531440]

Brake Calliper Brush

For cleaning brake callipers before installing new brake pads.



8000 A..

Circlip pliers

Universally suitable for commercial vehicle air brake lines with Raufoss® ABC connectors.

For professional and damage-free unlocking of Raufoss® ABC connectors. Required e.g. when removing and installing the air brake lines.

Available Sizes:

Part No.	Description	Length	Code
8000 A 12	Montagezange 45°	139mm	2015048
8000 A 11	Montagezange 90°	130mm	6702350
8000 A 1	Montagezange gerade	141mm	6701460

KL-0186-95 K

[Code 3296873]

Injector Extractor Set (VM-Motori/HATZ-Diesel/Iveco)

Universally fits agricultural machines, construction machines, and municipal vehicles with engines from VM-Motori as well as HATZ-Diesel and Iveco. For example, the motor series: VM-Motori R754 (Euro 5 + Euro 6), R756 (Euro 6); HATZ-Diesel H-Serie 3H50 TIC, 4H50 TIC; Iveco F1CE3 (Euro 5), 8140.43 (Euro 3).

For example, installed at Aebi, Boki, Boschung, Bulmor, Bucher, Hako, Hansa, Kärcher, Ladog, Lindner, Meili, MFH, Reform, Schell, Schmidt, Triletty.

For quick and professional extraction of stuck injectors from the cylinder head, in conjunction with an impact extractor (mounting thread: M18x2.5). It is required when removing the valve cover, for example, and when renewing the injectors.

The special design of the injector extractor allows the injector to be pulled out without having to open it, directly above the fuel connection. Injectors that have been opened must be sent in for repair according to the manufacturer's instructions.

Required Drive Parts (see Chapter Drives):

KL-0369-4100 Impact Extractor 1.5kg,

KL-0049-300 Impact Extractor 4.8kg

12 pcs.



Scope of Delivery:

KL-0186-95 K Injector Extractor Set

Part No.	Description	Qty
KL-0186-951	Injector extractor HATZ H-series	1
KL-0186-952	Injector extractor VM-Motori	1
KL-0186-9000-1	Nozzle extractor Head plate	1
KL-0186-9000-2	Cheese-head screw M8x35mm	2
KL-0186-9090	Plastic suitcase	1

1.37/2

[Code 8017200]

Cylinder Liner Puller

Fits passenger car and commercial vehicle cylinder liners with a diameter of 60-160mm. Installed, for example, on commercial vehicles from Mercedes-Benz and MAN, etc.

The extractor enables simple and professional extraction of wet cylinder liners.

Mode of 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.

By turning the spindle, all three jaws quickly and easily spread tightly under the edge of the bushing due to the novel spreading system. Then tighten the nut of the counter support.

Technical Data:

Spreading range:	60-160mm
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304.. Serie

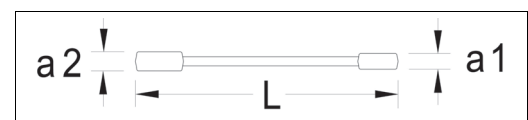
Half Moon ring Spanner

Universal application.

Required for the correct loosening and tightening of the turbocharger fastening screws. With extra thin-walled rings, particularly necessary in very tight spaces.

Available Sizes:

Part No.	L (mm)	a1 (mm)	a2 (mm)	Size1/Size2	Code-No.
304 11x13	150	7.0	7.5	11/13	6470040
304 13x15	185	8.5	8.5	13/15	6470630
304 13x17	185	8.5	8.5	13/17	6470120
304 14x16	185	8.5	8.5	14/16	6470200
304 14x17	185	8.5	8.5	14/17	6470390
304 15x17	185	8.5	8.5	15/17	6470470
304 16x18	185	8.5	8.5	16/18	6567550
304 19x22	230	10.0	10.5	19/22	6470550





KL-0122-192

[Code 2967421]

Oil Filter Socket (universal), Ø 80-110mm

Universally suitable for use on oil filters with Ø of 80-110mm as found in passenger cars.

The socket allows you to loosen oil filters quickly and safely. Retaining jaws grip the filter without any risk of slipping. The ideal tool when space is at a premium.

Recommended Accessory: 1993 U-20 Reversible Ratchet, 1/2"

Technical Data:

Clamping range:	Ø 80-110mm
Drive (square):	1/2" or 22mm waf



KL-0122-193

[Code 2967448]

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.

The socket allows you to loosen oil filters and air dryer cartridges quickly and safely. The special design of the tool and of the retaining jaws ensures 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.

Recommended Accessory: 1993 U-20 Reversible Ratchet, 1/2"

Technical Data:

Clamping range:	Ø 110-145mm
Drive (square):	1/2" or 24mm waf



11 pcs.

KL-0124-43

[Code 2871726]

Oil Pump with 12 Litre Reservoir

Universal field of application.

Ideal for use on gearboxes as found in VW-Audi, Ford, BMW, Honda, Nissan, Toyota, Mercedes, Volvo vehicles.

The oil pump with 12 litre reservoir is designed to facilitate 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.

Recommended Accessories:

KL-0124-433 Reservoir with lid (12l)

Note: Additional reservoir with lid available as accessory (to be ordered separately).

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-0124-4312	Hook	1
KL-0124-4313	Filling Hose with Ball Valve	1
KL-0124-432 K	Adaptors in a Storage Case	1
• KL-0124-4358-0	Adaptor for Ford Gearbox	1
• KL-0124-4358-1	Adaptor for Toyota Gearbox	1
• KL-0124-4358-2	Adaptor BMW, Honda, Nissan	1
• KL-0124-4358-3	Adaptor (short) for VW Gearbox	1
• KL-0124-4358-4	Adaptor (long), for VW Gearbox	1
• KL-0124-4358-5	Adaptor for VW Gearbox (M10x1.0)	1
• KL-0124-4358-6	Adaptor 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

Technical Data:

Reservoir capacity (with pump):	12 litre
Cracking pressure of the pressure relief valve:	1 bar (14 psi)
Maximum pressure:	2.5 bar (35 psi)

KL-0124-433 (Code 2871874)

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-0190-94 (Code 1961314)

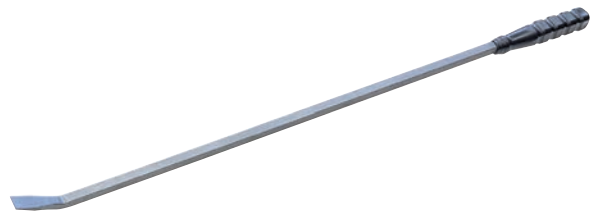
Pry Bar

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-0194-130 A (Code 2478536)

Set of Plastic Wedges

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

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

4 pcs.



KL-0190-41 A (Code 3236579)

Release/Removal Pliers

Fits VW-Audi 1.6 and 2.0 common rail Diesel engines. For example, installed on Audi A1 (8X), A3 (8V), A4 (B9, 8W), A5 (8F), A6 (C7, 4G), Q3 (8U), Q5 (8R), TT (FV, 8S); VW Golf VII (AU, 5G), Passat (B8, 3G), Scirocco III (13), etc.

Plastic rivets for example on the wishbone of Audi A4, A5, A6

Alternative tool: VAS 211 007, T40195

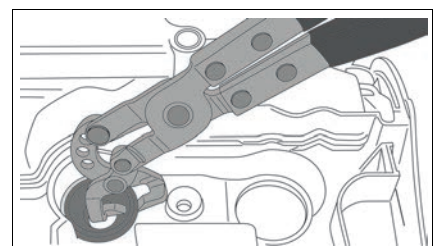
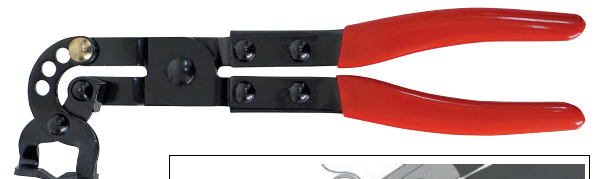
For removing press-fit injector seal rings from the cylinder head quickly and with ease.

The pliers are also designed to unlock and pull out the re-usable two-part plastic body-bound rivets from door and underbody panels.

The pliers head can be adjusted up to an angle of 90°, thus allowing you to work even in hard-to-reach areas.

Technical Data:

Length:	240mm
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KL-0190-50

[Code 1804898]

Hog Ring/Pliers Kit

For installing upholstery hog rings on vehicle seats (various makes).

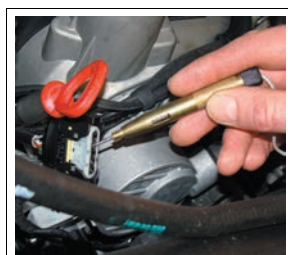
Technical Data:

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-0190-30

[Code 1859501]

Test Lamp

The test lamp is suitable for testing electric circuits up to 24V. Facilitates locating open and short circuits.

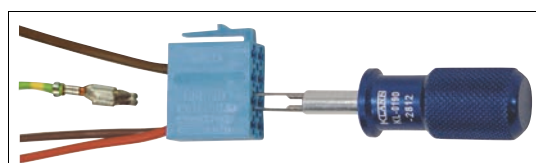
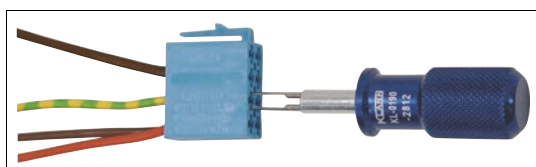
The probe-tip is protected by a screw-cap.

Technical Data:

Weight:	60g
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19 pcs.



KL-0190-28 K

[Code 2004119]

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

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KL-0039-1011	Retaining Adaptor for Mechanical Spindle	76
KL-0039-1140	Press Frame (Lightweight, Short Design)	80
KL-0039-115	Frame Bars (Pair), 350mm Long, with Hex Nuts	80
KL-0039-160 E	Pressure/Support Sleeve Set, Ø 30-90mm, short, 45mm, in a Foam Insert	21
KL-0039-170 E	Pressure/Support Sleeve Set, Ø 30-90mm, long, 115mm, in a Foam Insert	21
KL-0039-1910	Pull Spindle, M10x1.25, with Nut	75
KL-0039-1910-1	Pull Spindle, M10x1.25	74
KL-0039-1910-2	Shoulder Nut, M10x1.25	74
KL-0039-1912-1	Pull Spindle, M12	74
KL-0039-1912-2	Shoulder Nut, M12	74
KL-0039-1912-3	Shoulder Nut (M12), flat, 19mm waf	74
KL-0039-1914-1	Pull Spindle, M14	74
KL-0039-1914-2	Shoulder Nut, M14	74
KL-0039-1914-5	Pull Spindle (Short Design), M14	74
KL-0039-1916-1	Pull Spindle, M16	74
KL-0039-1916-2	Shoulder Nut, M16	74
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KL-0039-1930	Pressure Spindle with O-Ring, M20x350mm	74
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KL-0039-2018-1	Pull Spindle, M18	74
KL-0039-2020-1	Pull Spindle, M20	74
KL-0039-2030	Pull Spindle M20	74
KL-0039-2110	Pull Spindle M10, with Quick-Action Clamping Nut	75
KL-0039-2110-2	Quick-Action Clamping Nut, M10x1.25	74
KL-0039-2112	Pull Spindle M12, with Quick-Action Clamping Nut	75
KL-0039-2112-2	Quick-Action Clamping Nut, M12	74
KL-0039-2114	Pull Spindle M14, with Quick-Action Clamping Nut	75
KL-0039-2114-2	Quick-Action Clamping Nut, M14	74
KL-0039-2116	Pull Spindle M16, with Quick-Action Clamping Nut	75
KL-0039-2116-2	Quick-Action Clamping Nut, M16	74
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KL-0039-2210	Pull Spindle M10, with Shoulder Nut and Quick-Action Clamping Nut	75
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KL-0039-2214	Pull Spindle M14, with Shoulder Nut and Quick-Action Clamping Nut	75
KL-0039-2216	Pull Spindle M16, with Shoulder Nut and Quick-Action Clamping Nut	75
KL-0039-2220	Pull Spindle M20, with Shoulder Nut and Quick-Action Clamping Nut	75
KL-0039-23	Set of Quick-Action Clamping Nuts (5-pc.)	73

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KL-0039-7533	Sleeve Set, Mercedes Sprinter (W906); VW Crafter (2E/2F)	18
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KL-0040-2242-1	Pull Spindle, M16, with Nut	74
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KL-0040-2812-2	Clamping Nut, M24/Ø 42mm	74
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