

AUTOMOTIVE TOOLS / QUALITY MADE BY GEDORE

EN | 5.2

HGV CATALOGUE

Including
novelties
2022!



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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GEDORE



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.



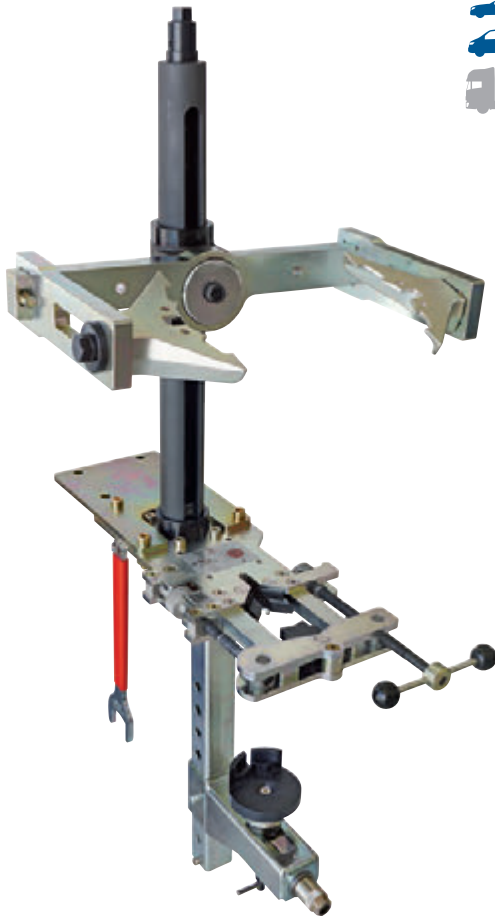


1. Springs and Shock Absorbers





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 |





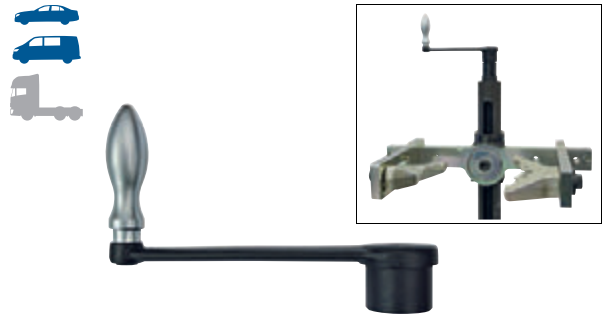
KL-5501-40 [Code 3402444]

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

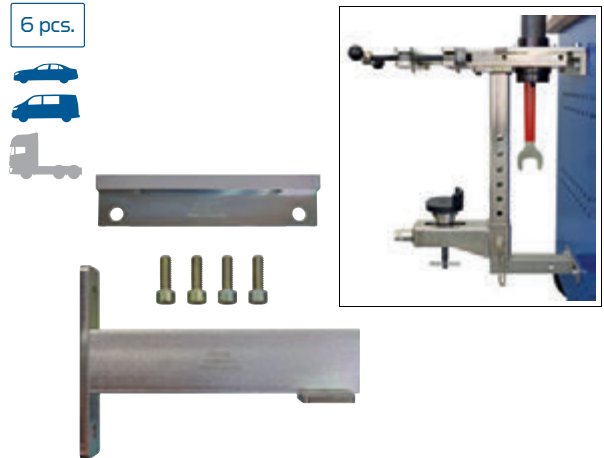
Suitable for KL-5501 B (NOT for KL-5501).

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) |
|-----------------------|----------------------|



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) |
|-----------------------|----------------------|



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**.



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**.





9 pcs.



KL-9002 SP Spring Compressor

(Code 2480115)

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 Pair of Jaws, Size 3

(Code 2480085)

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

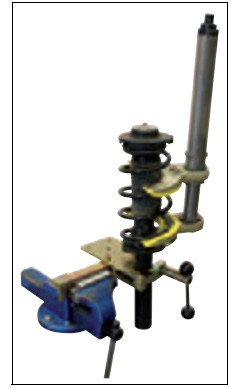
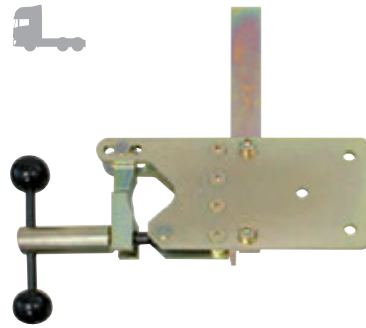
Suitable for MacPherson suspension struts, shock absorbers and steering gears.

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.



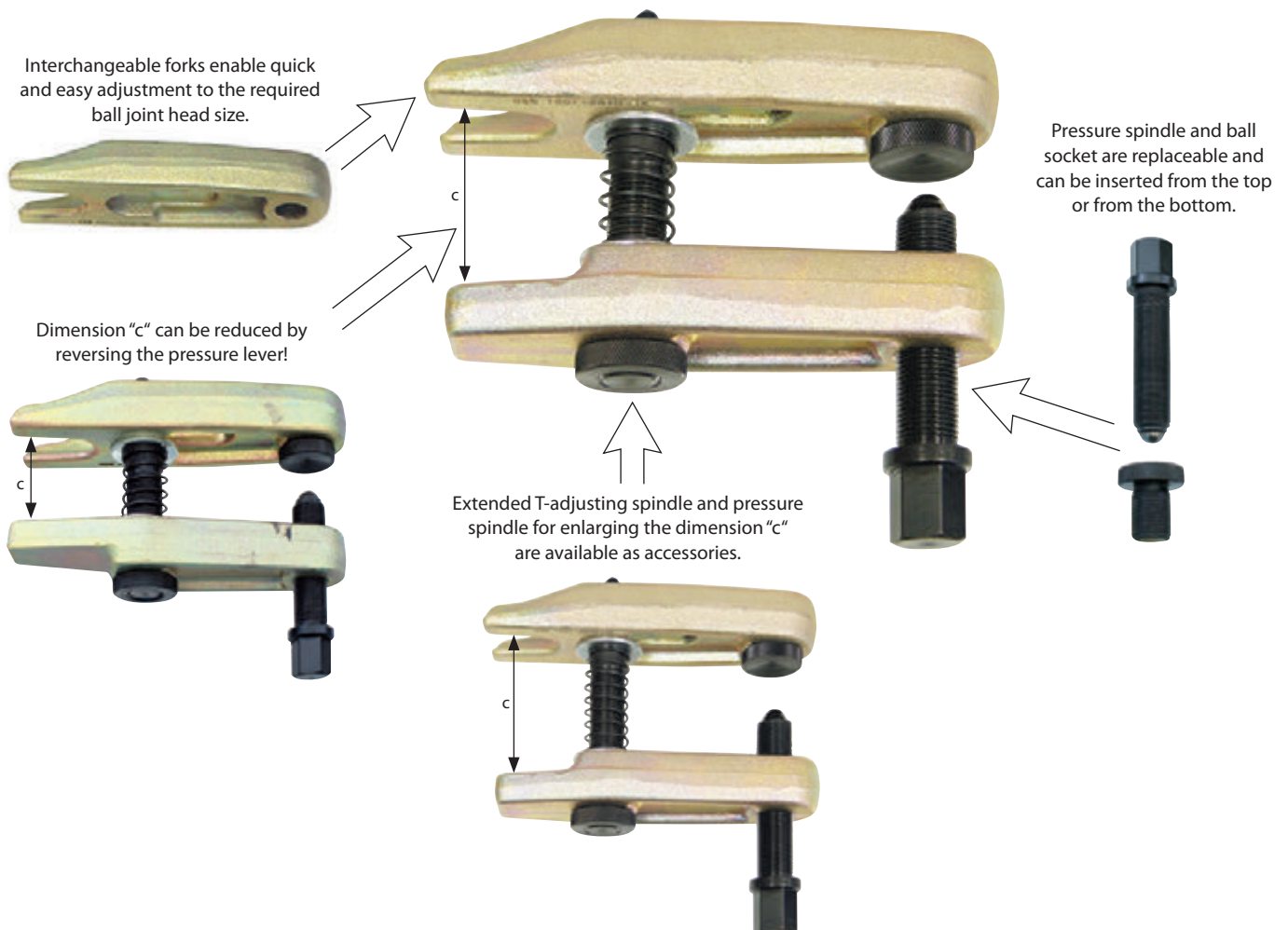


2. Axle Repair Tools (Steering, Support Joints, Wheel Bearings, etc.)



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 |
|---------|--------|

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 |



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

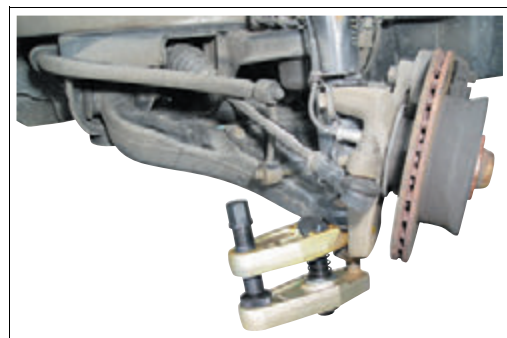
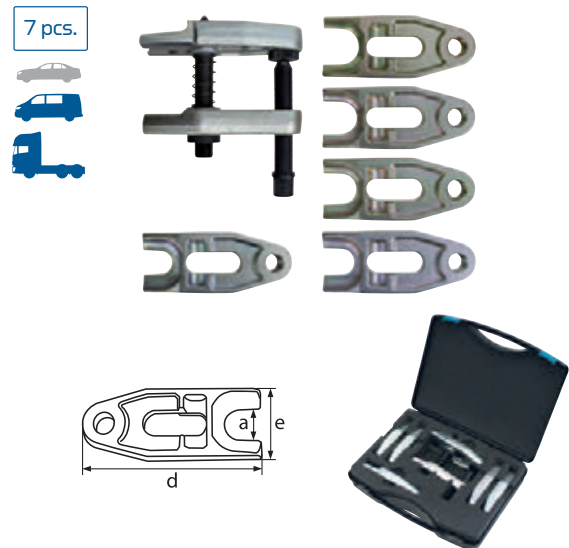
Recommended Accessory:

1993 U-20 Reversible Ratchet 1/2"

Scope of Delivery:

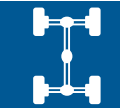
KL-0165-3 KA Ball Joint Extractor Set (with 6 Forks)

| 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 |

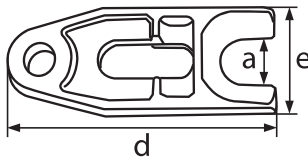


2. Axle Repair Tools

2.1 Steering and Steering Geometry



2 pcs.



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-0165-35

(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-0165-33

(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

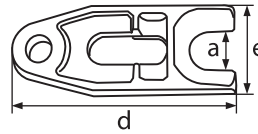
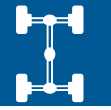
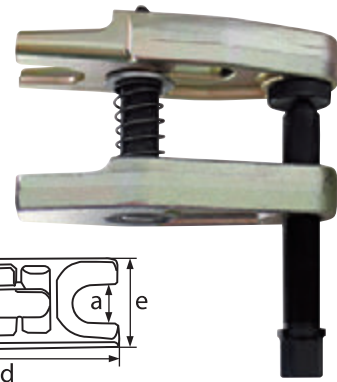
Suitable for use on ball joints found at steering column control stalks on Mercedes-Benz/Setra buses such as MB Travego RHD L (O 580) and Setra S 417 UL.

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 |

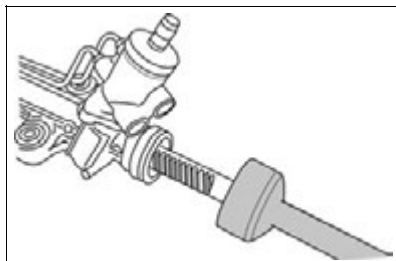


2. Axle Repair Tools

2.1 Steering and Steering Geometry



2 pcs.



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:

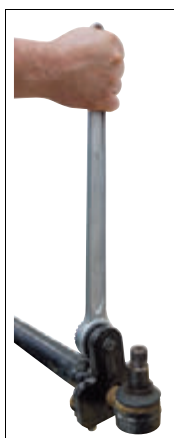
- Universal tool, thanks to its very small outer diameter and large working range from 30-43mm.
- High-grade metal rollers and steel cage ensure long service life of the tool.
- Exchangeable roller inserts.

Technical Data:

| | |
|---------|-------|
| Drive: | 1/2" |
| Length: | 480mm |

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 |



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 |

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

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



2. Axle Repair Tools

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:

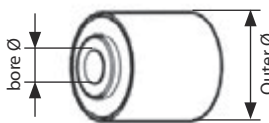
- ☑ Modular system with universally combinable pressure- / support sleeves.
- ☑ Possibility to complement the tool set universally with additional pressure- / support sleeves. Two possible drives (mechanical or hydraulic). Optional use of centring- / pressure rings and press frames.

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

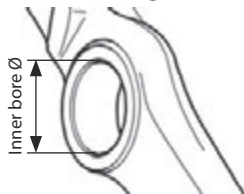


Identify support sleeve (with dimension silenbloc outer \varnothing)

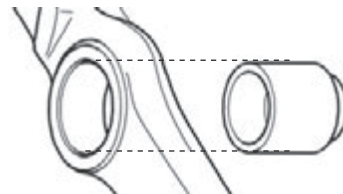


Support sleeve inner $\varnothing \rightarrow$ greater than \rightarrow silenbloc outer \varnothing

Measure inner bore \varnothing of retaining bore.



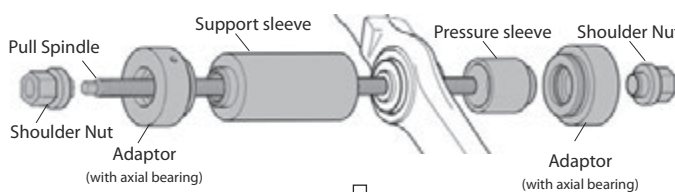
Identify pressure sleeve (with dimension bore inner \varnothing)



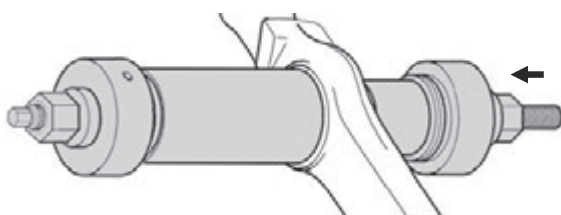
Pressure sleeve outer $\varnothing \rightarrow$ greater than \rightarrow bore inner \varnothing



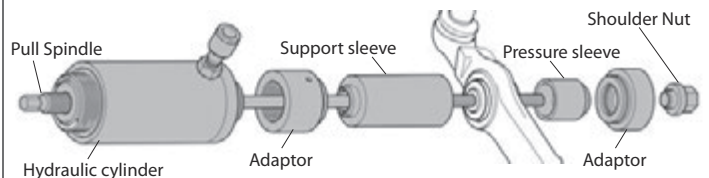
Mounting the silenbloc tool (mechanical drive)



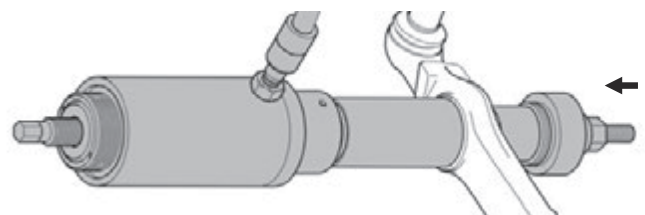
Extracting the silenbloc (mechanically)
[Insertion follows the same principle]



Mounting the silenbloc tool (hydraulic drive)



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

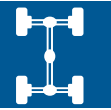


2.2 Support Joints, Bearings and Bushings

The GEDORE Automotive Silenbloc Tool KL-0039-Series

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

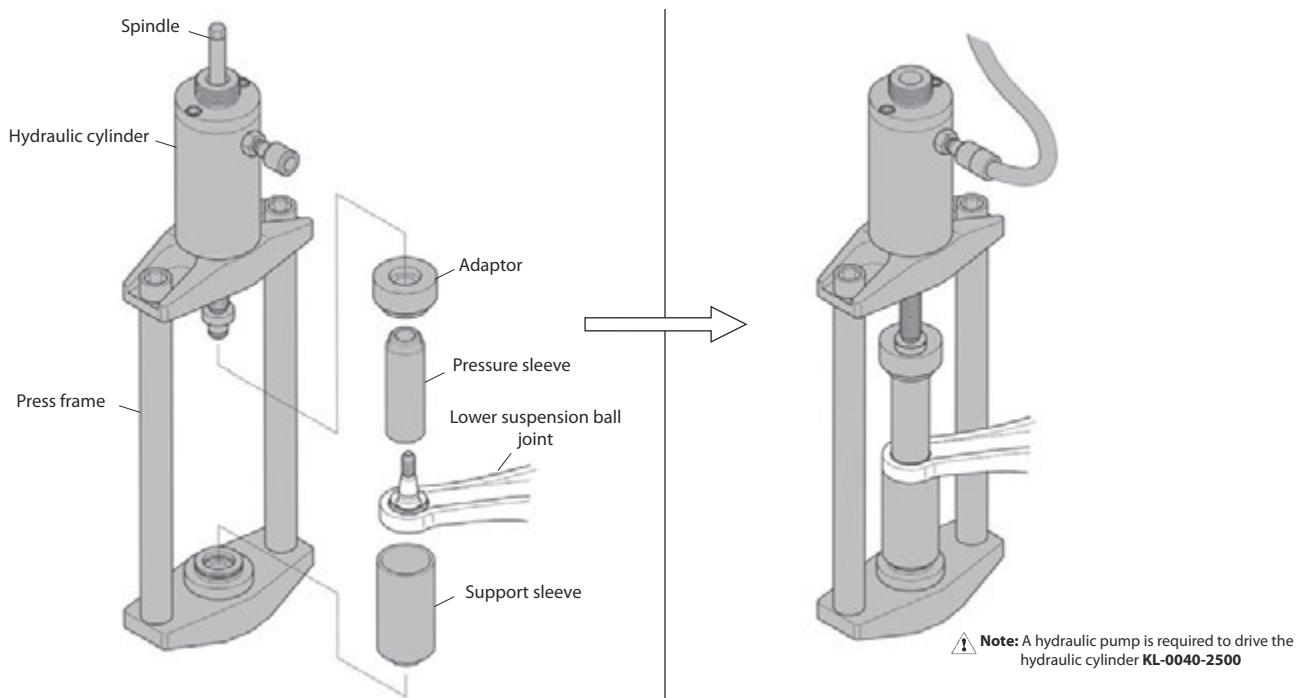
- ☑ Universal use of the tool.
- ☑ Substantial time and cost savings as the required tool can easily and universally be assembled as needed.



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

Identification of the necessary parts and assembling the tool:

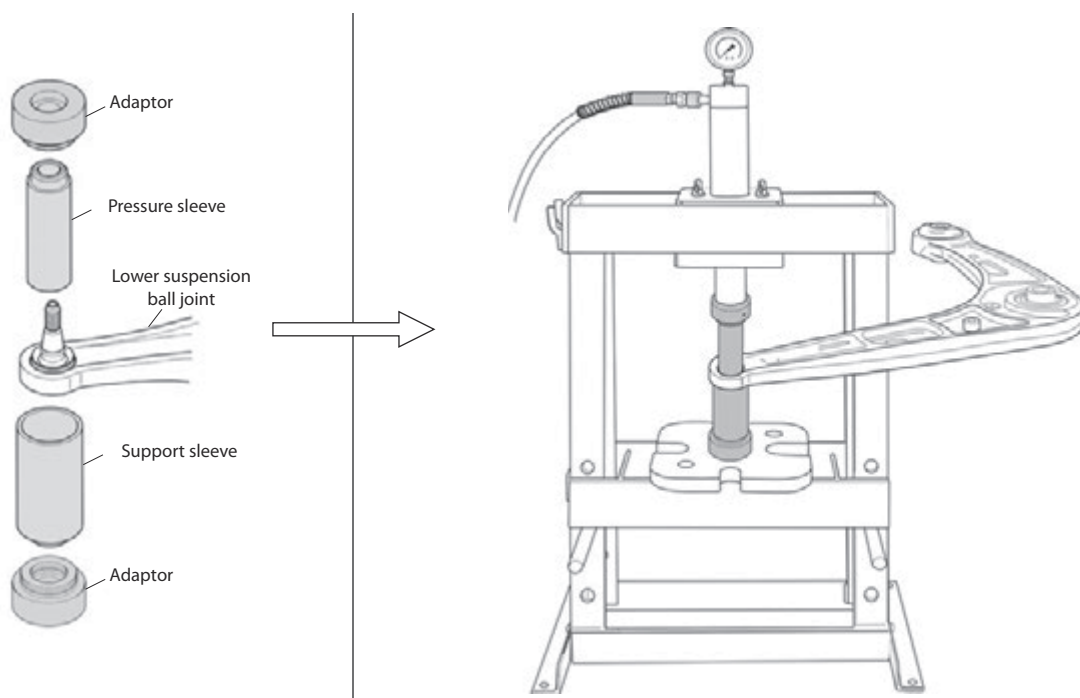
⇒ Mount the tool and press out the silentbloc / suspension ball joint. (Installation follows the same principle)



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

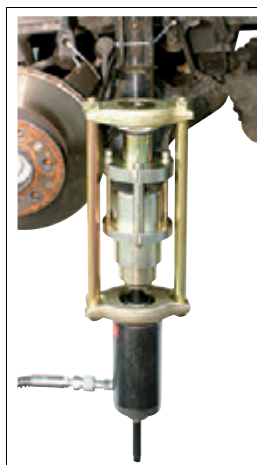
Mechanical Drive:

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.

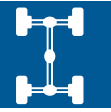
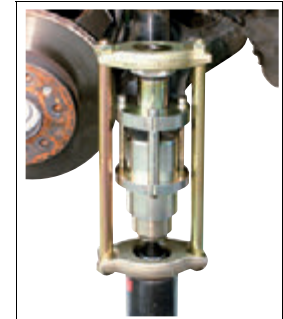
Necessary Accessories:

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

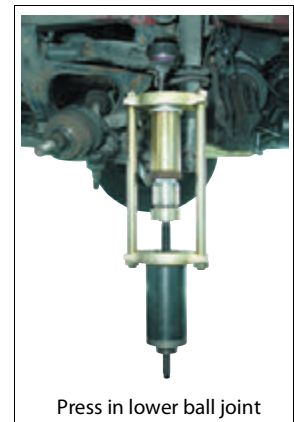
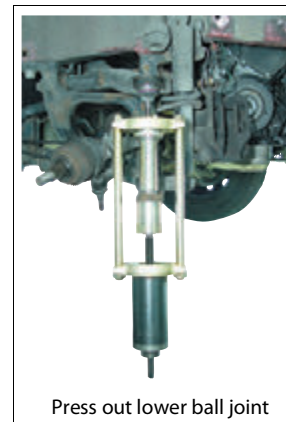
Mechanical Drive:

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.



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

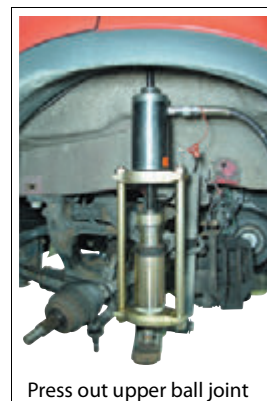
Mechanical Drive:

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

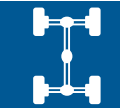
| Part No. | Description | Qty |
|--------------|-------------------------------------|-----|
| KL-0039-1644 | Press/Support Sleeve, short, Ø 44mm | 1 |
| KL-0039-1764 | Press/Support Sleeve, long, Ø 64mm | 1 |
| KL-0039-1820 | Support Sleeve for Renault Master | 1 |
| KL-0039-1758 | Press/Support Sleeve,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

4 pcs.



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.

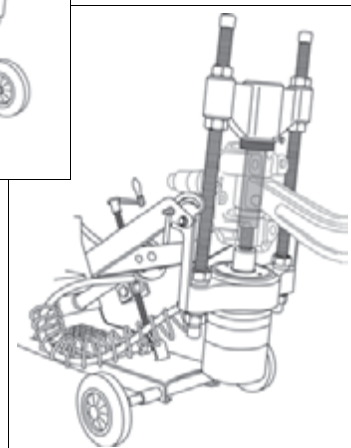
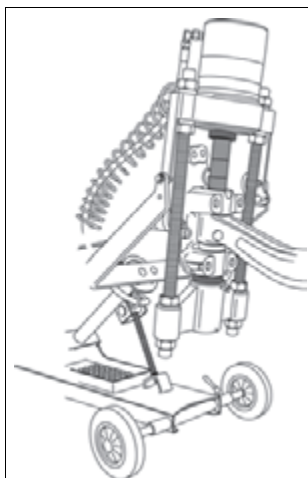
Technical Data:

| | |
|-------------------------------------|-------------------|
| 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 silentblochs, 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

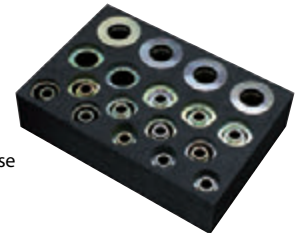
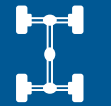
Mechanical Press Frame (optional):

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

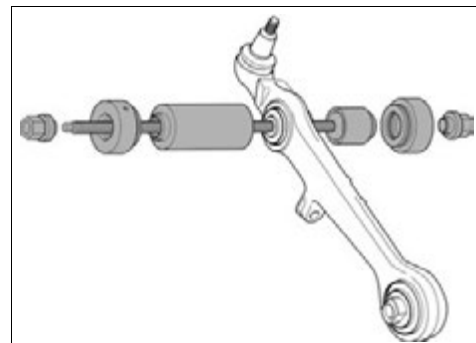
| Part No. | Description | Qty | Part No. | Description | Qty |
|--------------|-------------|-----|--------------|-------------|-----|
| KL-0039-1630 | Ø 30/22mm | 1 | KL-0039-1662 | Ø 62/54mm | 1 |
| KL-0039-1632 | Ø 32/24mm | 1 | KL-0039-1664 | Ø 64/56mm | 1 |
| KL-0039-1634 | Ø 34/26mm | 1 | KL-0039-1666 | 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 silentblochs, 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

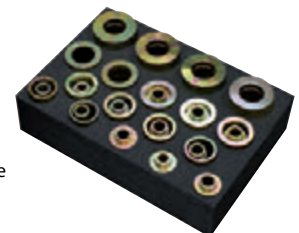
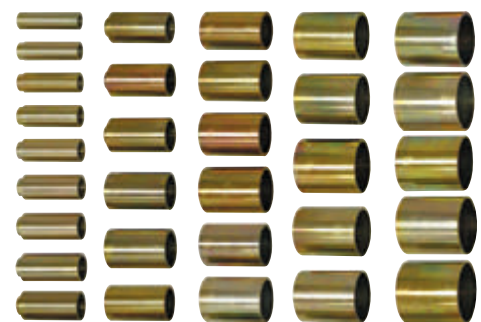
Mechanical Press Frame (optional):

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

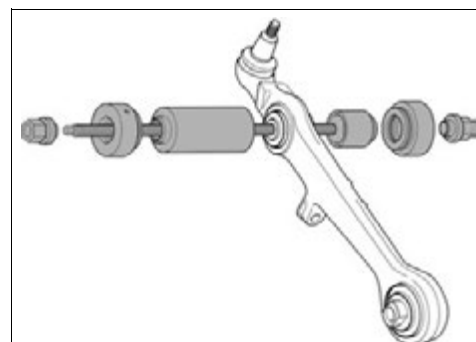
| Part No. | Description | Qty | Part No. | Description | Qty |
|--------------|-------------|-----|--------------|-------------|-----|
| KL-0039-1730 | Ø 30/22mm | 1 | KL-0039-1762 | Ø 62/54mm | 1 |
| KL-0039-1732 | Ø 32/24mm | 1 | KL-0039-1764 | Ø 64/56mm | 1 |
| KL-0039-1734 | Ø 34/26mm | 1 | KL-0039-1766 | 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

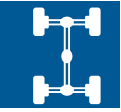


2. Axle Repair Tools

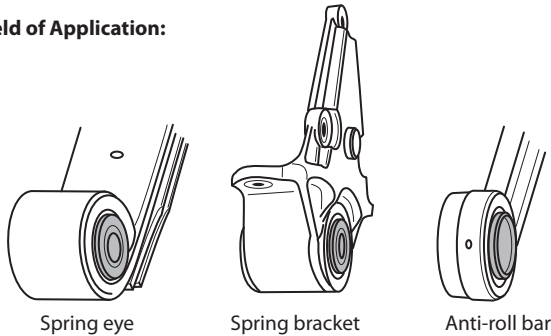
2.2 Support Joints, Bearings and Bushings

KL-1010-Series Pulling Devices for HGV Silentblocs

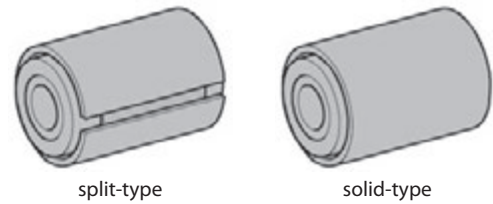
[German Utility Model]



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.

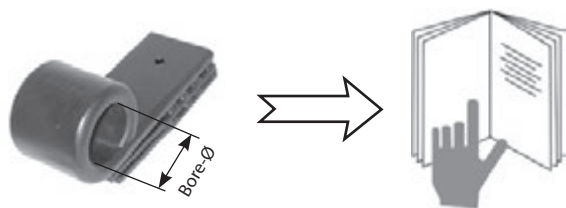
The big advantage of the unique GEDORE Automotive Modular System is that it requires substantially fewer single parts for more diameters and applications than conventional silentbloc tools (==> high cost savings).

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.

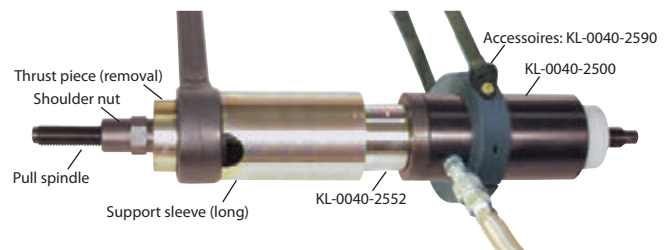
Application example / procedure:

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.

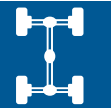
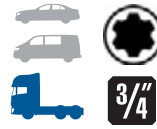
Alternative tools: W 963 589 00 09 00

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):

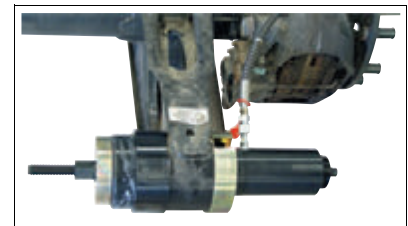
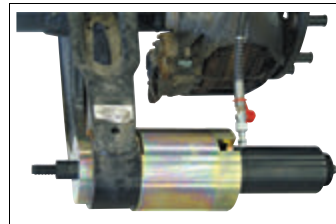
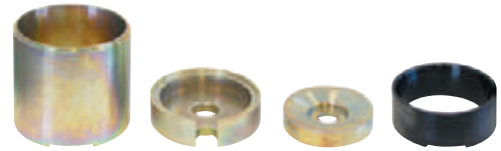
KL-0040-2500 Hydraulic Cylinder 17t, KL-0215-35 M25 Hydraulic Pump, KL-0039-1920-1 Pull Spindle, KL-0040-3009 Clamping Nut, KL-0039-1002 Retaining Adaptor, KL-0039-1340 Centring Ring

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 \varnothing 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):

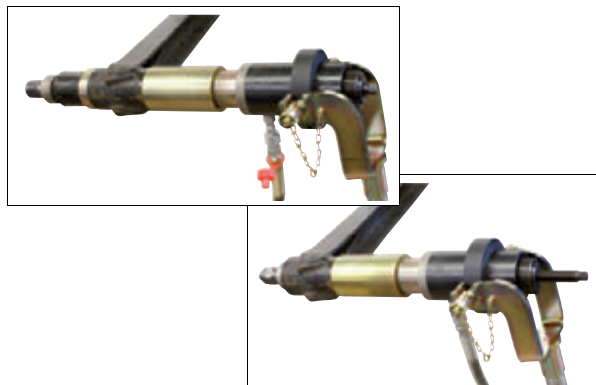
KL-0040-2800 Hydraulic Cylinder (28t), **KL-0215-35 M28** Hydraulic Pump, **KL-0040-2846-1** Pull Spindle, **KL-0039-2120-2** Quick-Action Clamping Nut, **KL-0039-1003** Retaining Adaptor

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) \varnothing 72mm | 1 |
| KL-1001-2502 | Conical Sleeve | 1 |



7 pcs.



KL-1002-221

(Code 2727978)

Pressure Piece/Sleeve Set, \varnothing 40mm

Suitable for silentblocs with 40mm \varnothing (bead \varnothing 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.

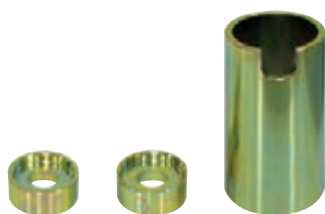
The removal and installation of the silentblocs can be carried out on a workbench or in situ on the vehicle if space conditions allow.

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, \varnothing 40mm

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



3 pcs.



KL-1002-251

(Code 2727889)

Pressure Piece/Sleeve Set, \varnothing 50mm

Suitable for solid-type metal silentblocs with 50mm \varnothing 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 \varnothing .

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):

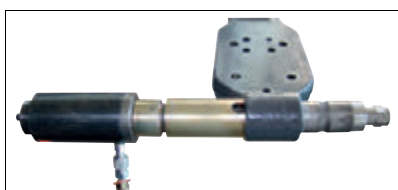
KL-0040-2500 Hydraulic Cylinder (17t), **KL-0215-35 M25** Hydraulic Pump, **KL-0039-2120** Pull Spindle + Quick-Action Clamping Nut, **KL-0039-1003** Retaining Adaptor

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, \varnothing 50mm

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



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.

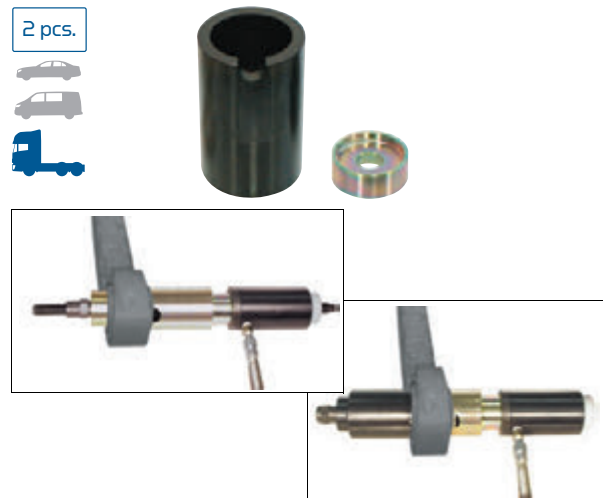
Necessary Drive Parts (cf. Chapter Drives):

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)



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)



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



3 pcs.



KL-1010-140 B [Code 3292630] Pressure Piece/Sleeve Set, Ø 65mm

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

The pressure piece / sleeve set **KL-1010-140 B** allows for the quick, 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-0039-1003** Retaining Adaptor, **KL-1010-1010** Drive Sleeve Set (Ø 70mm)



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 |



3 pcs.



KL-1010-220 A [Code 3292649] Pressure Piece/Sleeve Set, Ø 75mm

Suitable for split-type silentblocs 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 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.

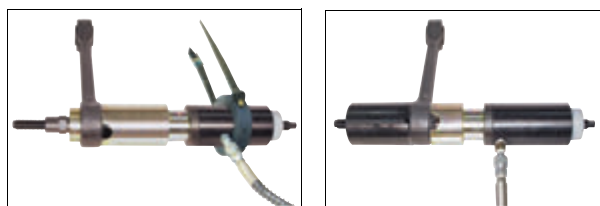
Necessary Drive Parts (cf. Chapter Drives):

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-1010-1030** 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-1010-220 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 |



2 pcs.



KL-1010-240 A [Code 3292657] Pressure Piece/Sleeve Set, Ø 51mm

Applicable to both split-type and solid-type silentblocs 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 silentblocs on leaf springs. 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-0039-1003** Retaining Adaptor, **KL-1010-1010** Drive Sleeve Set (Ø 70mm)

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 |

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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:

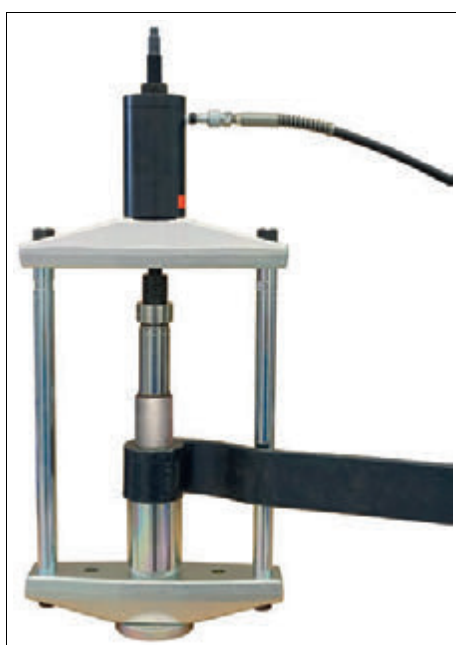
KL-0215-35 M28 Hydraulic Pump, **KL-0040-2800** Hydraulic Cylinder 28t,

KL-0040-2812-1 Tension / Compression Spindle, **KL-0039-1002** Mounting adapter,

KL-0040-2812-5 Thrust Nut

Technical Data:

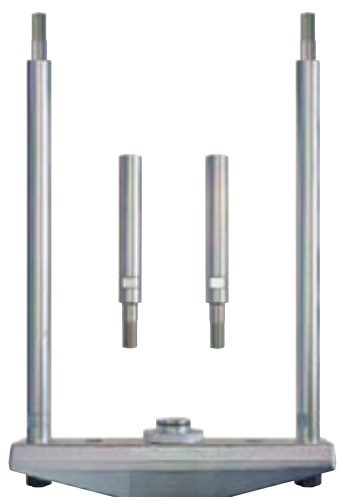
| | |
|---------------------------|-----------|
| Inner width 1: | 180mm |
| Inner width 2: | 250mm |
| Inner width 3: | 320mm |
| Inner length 1: | 500mm |
| Inner length 2: | 700mm |
| Load max.: | 28t |
| Cylinder mounting thread: | 2¾"-16 UN |



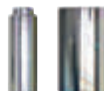
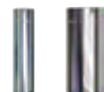
Scope of Delivery:

KL-1039-111 Press Frame 28t

| Part-No. | Description | Qty |
|--------------|---|-----|
| KL-1039-1101 | Base plate 2¾"-16 UN | 1 |
| KL-1005-1011 | Base plate 2¾"-16 UN | 1 |
| KL-1039-1102 | Pull rod M22 | 2 |
| KL-1005-1014 | Hex collar nut M22 | 4 |
| KL-1039-1105 | Adapter 2¾"-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:

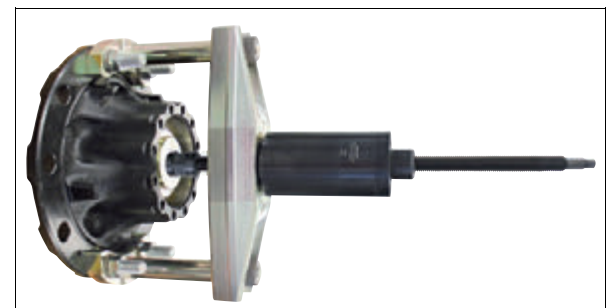
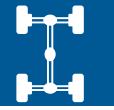
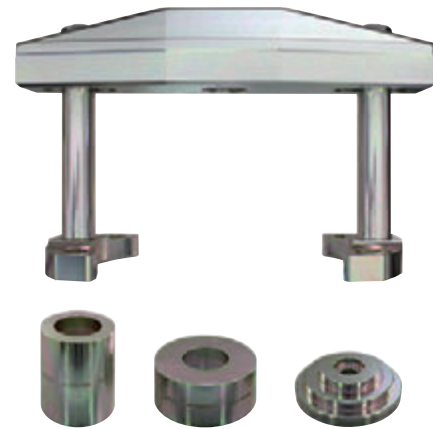
| | |
|-----------------------------------|-----|
| Max. load capacity of base frame: | 28t |
|-----------------------------------|-----|

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):

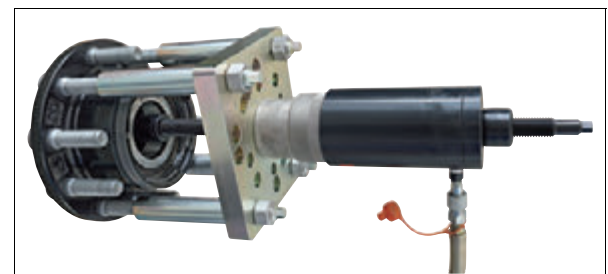
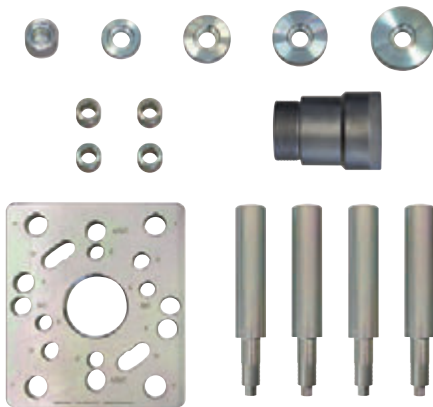
KL-0215-35 M28 Hand Pump, **KL-0040-2800** Hydraulic Cylinder 28t,

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.



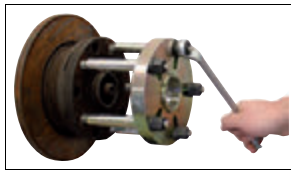
Scope of Delivery:

KL-1005-111 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, 2¼" to 2¾", 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.

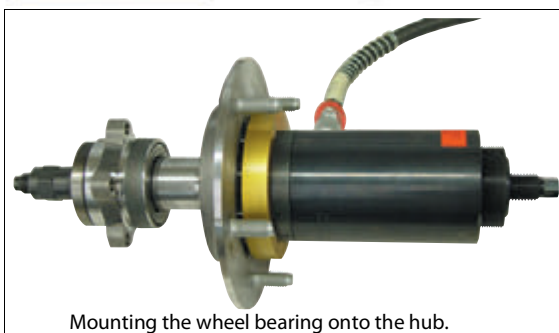
Thanks to this tool, the removal and installation of the wheel bearing can be carried out in situ on the vehicle within just a few minutes, without having to dismantle the suspension strut.

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:

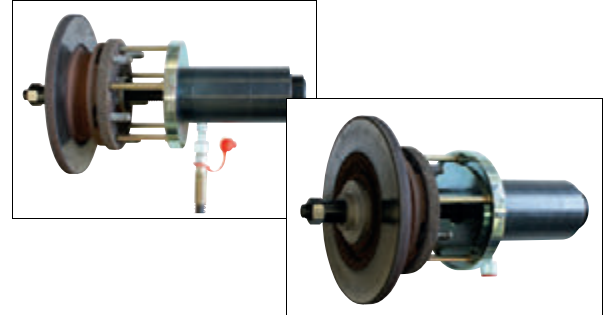
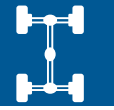
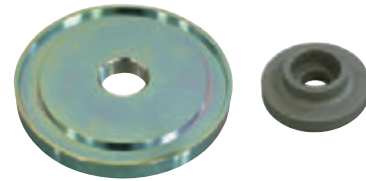
KL-0040-860 Wheel Bearing Tool Set, Ford Transit, KL-0040-2800 Hydr. Cyl. (28t), KL-0215-35 M28 Hydraulic Pump, KL-0040-2812-1 Pull/Pressure Spindle (M24x590), KL-0040-2812-2 Clamping Nut

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.

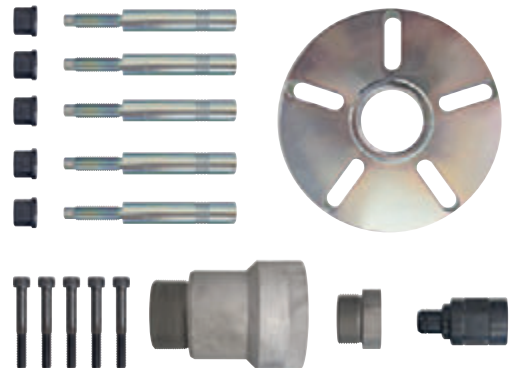
This supplementary kit enables the removal of the bolted wheel bearing unit with wheel hub and brake disc on the front axle, especially for wheel bearings without centre bore in closed design, and subsequently the removal and pressing in of the wheel hub on the wheel bearing unit. Required, for example, 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:

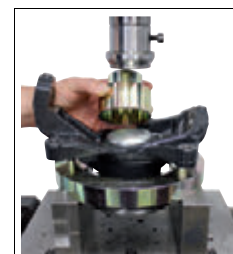
| | |
|---------------------|-----|
| Max. load capacity: | 17t |
|---------------------|-----|

Scope of Delivery:

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

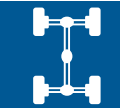
| Part No. | Description | Qty |
|--------------|--------------------------|-----|
| KL-0041-801 | Base Plate | 1 |
| KL-0041-802 | Sleeve Set | 1 |
| KL-0041-7106 | Cheese Head Screw, M6x45 | 2 |

8 pcs.



2. Axle Repair Tools

2.3 Wheel Bearings, Wheel Hubs and Drive Shafts

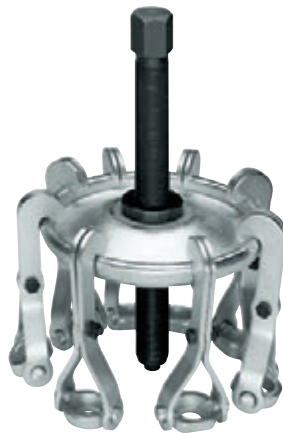


KL-0041-803 Holding Fixture

[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

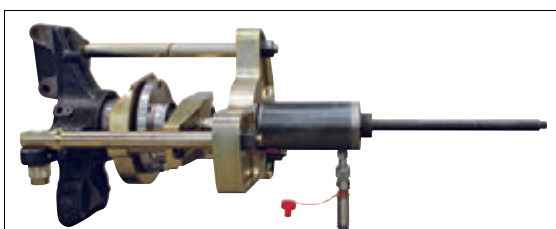
Tool Storage System:

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

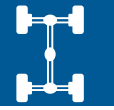
KL-1021-12 (Code 2883635) Oil Drain Pan for Drive Axle

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:

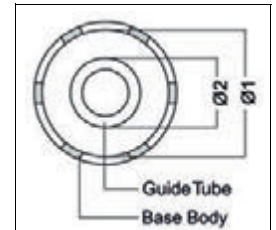
KL-1020-24 6-Pin Lock Nut Socket, Ø 87mm, with 2 Guide Tubes

| 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:

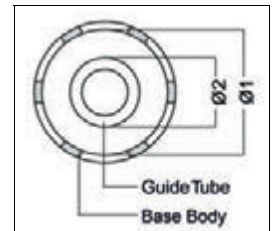
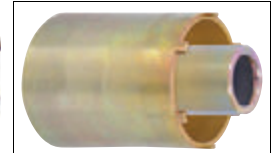
KL-1020-38 6-Pin Lock Nut Socket, Ø 117mm, with Guide Tube

| 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:

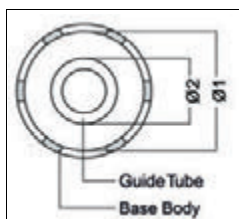
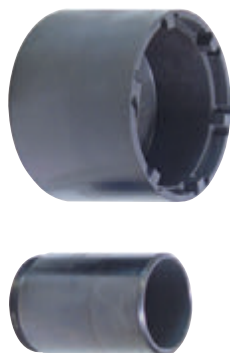
Allows base tool and guide tubes to be combined universally. (observe connection thread)

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

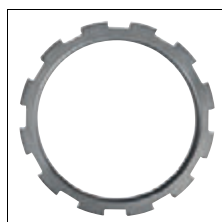
| Part No. | Description | Qty | Ø 1 (mm) | Ø 2 (mm) | Length (mm) | Pin | |
|--------------|-------------|-----|----------|----------|-------------|--------|-------|
| | | | | | | Number | Width |
| KL-1020-400 | Base Body | 1 | 91 | | 98 | 6 | 7.5mm |
| KL-1020-3905 | Guide Tube | 1 | | 58 | 110 |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

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

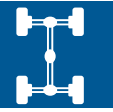
| Part No. | Description | Qty |
|------------------------|----------------------------|-----|
| KL-1020-4201 | Base Body | 1 |
| KL-1020-4202 | Extension, Ø 38mm, 3/4"-1" | 1 |
| KL-1020-4203 | Guide Plate | 1 |
| KB 2175 (Code 6657700) | Locking Pin | 1 |
| KB 2170 (Code 6657620) | Retaining Ring |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

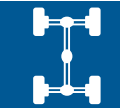


3/4"



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.

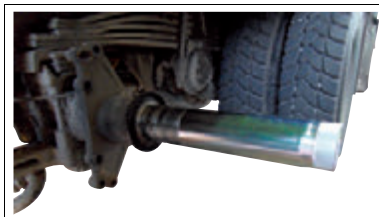
Recommended Accessories:

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 Kögel 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, Ø 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 Ø: | 105mm |
| Length: | 360mm |



KL-1027-4560

(Code 2672588)

Wheel Bearing Centring Sleeve, Ø 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 Ø: | 60mm |

2.3 Wheel Bearings, Wheel Hubs and Drive Shafts

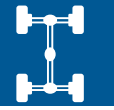
KL-1027-4582 (Code 2991519) Wheel Bearing Centring Sleeve, Ø 82mm

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 |



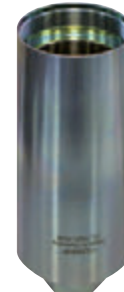
KL-1027-7578 (Code 2746026) Wheel Bearing Centring Sleeve, Ø 78mm

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.



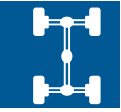
Scope of Delivery:

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



5 pcs.



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.

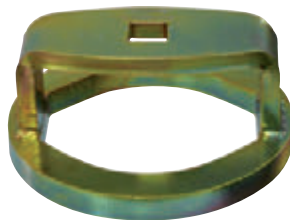
Recommended Accessories: 248 ST-50 Plastic Hammer

Technical Data:

| | |
|----|-------|
| Ø: | 175mm |
|----|-------|

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

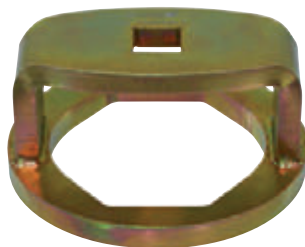
The socket facilitates the professional loosening and tightening of flat oval hub caps and axle nuts as found on BPW axles.

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 .

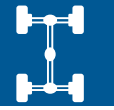
This tool allows for the easy and professional loosening and tightening of hub caps and axle nuts.

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

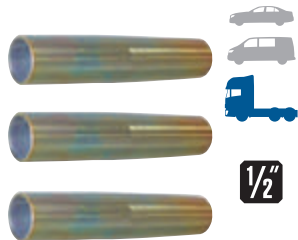
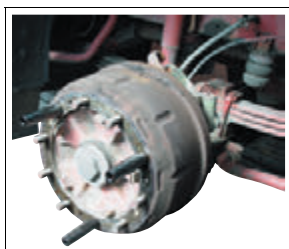
Technical Data:

| | |
|-----------------|------------|
| 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 |
|-------------|------|

KL-0100-633

[Code 2874237]

Socket, 33mm waf

Technical Data:

| | |
|-------------|------|
| Size (waf): | 33mm |
|-------------|------|



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 +/-3% deviation and thus with a greater precision than the standard-stipulated +/-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**

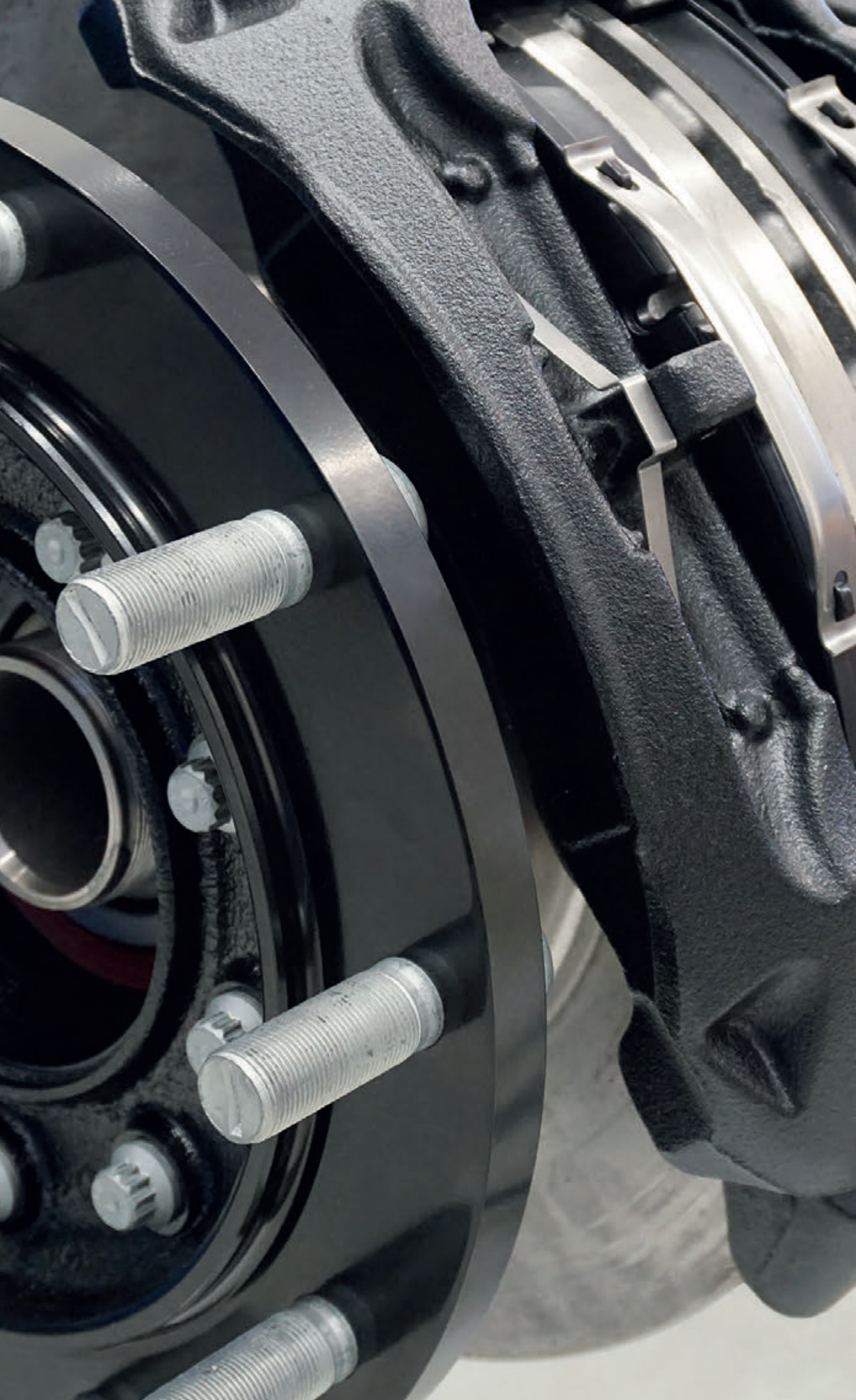
The GEDORE 3/4" torque wrench with extension tube and with a DIN EN ISO 6789:2017-based test certificate permits controlled screw tightening from 155 to 760 N-m and is an optimum drive tool for socket wrench sets. The easy-to-operate torque setting to be fixed to the handle end ensures **precision work**.

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





3. Brake Service/Repairs





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 |



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

Technical Data:

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



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.

Recommended Accessory:

- 8563-10 Torque Wrench, 155-760Nm
- KL-4007-411 Swivel Head Breaker Bar, 3/4", 980mm

Technical Data:

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

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 |



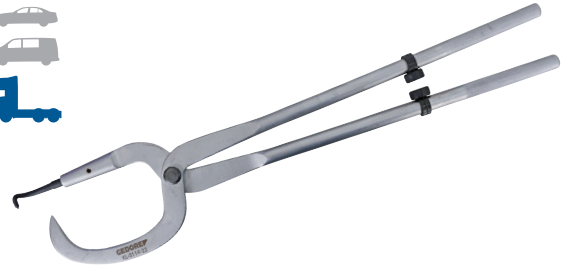
KL-0114-22 [Code 1858076]

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:

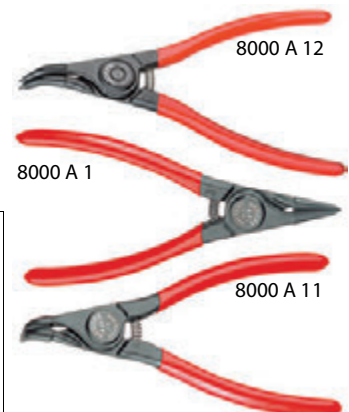
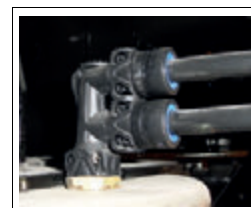
| | |
|-----------------|-------|
| Length: | 220mm |
| Bristle length: | 21mm |
| Weight: | 94g |



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.

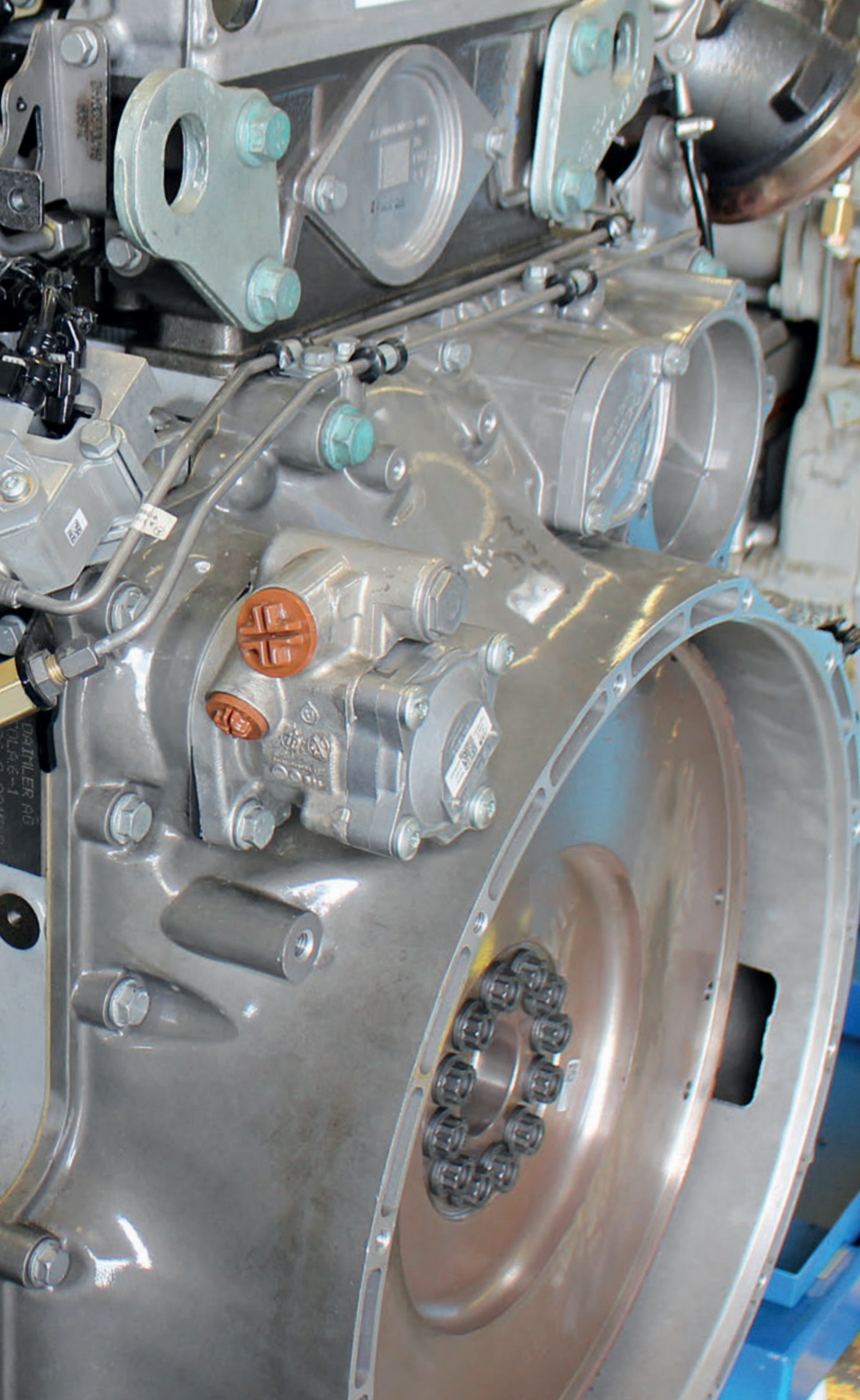
A custom-made tool for every service application – with Knorr-Bremse TruckServices, this vision is now within your grasp. Special tools help you to perform a variety of repair and maintenance operations even faster, more efficiently and safely. The range encompasses everything from a disc brake maintenance 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.

| www.knorr-bremseCVS.com |

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TRUCKSERVICES





4. Engine Maintenance/Repairs



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: | 273mm |
| Weight: | 390g |



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:

| | |
|--------------|---------|
| Clamp Ø: | 18-53mm |
| Length: | 285mm |
| Clamp Angle: | 110° |
| Weight: | 425g |



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.

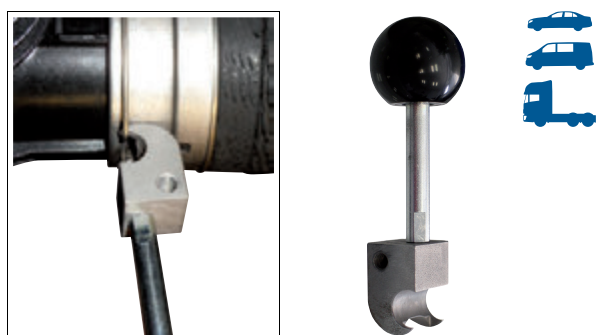
Technical Data:

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



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

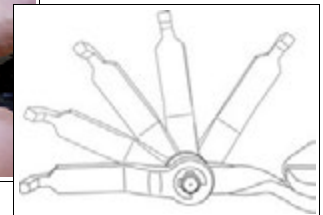
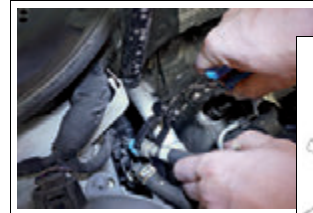
Allows you to unlatch quick-release couplings on fuel lines professionally. An indispensable tool when changing the fuel filter or performing repairs to the fuel system for example.

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

[Code 3087573]

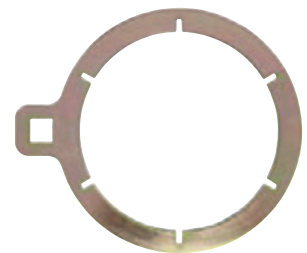
Fuel Filter Socket, Ø 115mm, Ford Transit

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

[Code 1807390]

Filter Socket, Size (waf) 32mm

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)



3/8"



KL-0122-53

[Code 2486059]

Filter Socket, Size (waf) 46mm

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

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)



3/8"



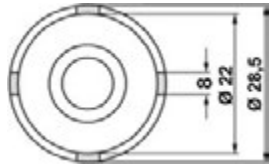


KL-0369-601 [Code 1902059] Special 4-Pin Socket with Lock Nut

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:

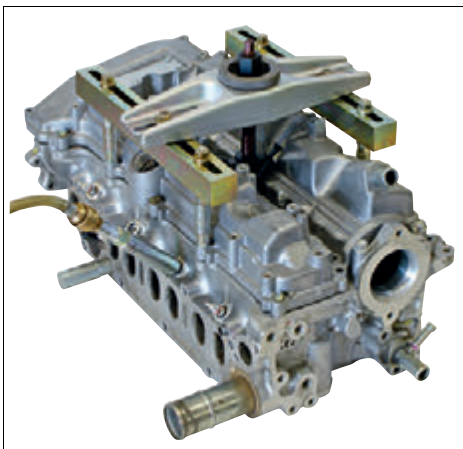
KL-0121-75 Set of Vacuum Line Plug

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

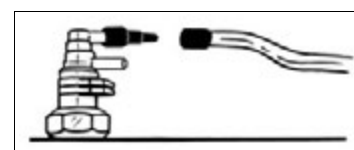
Universally suitable for pressure, vacuum and fuel lines.

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, Trilety.

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°

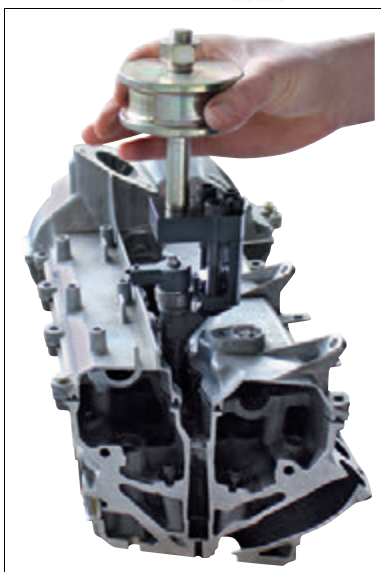
Tool Storage System:

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



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



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 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



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

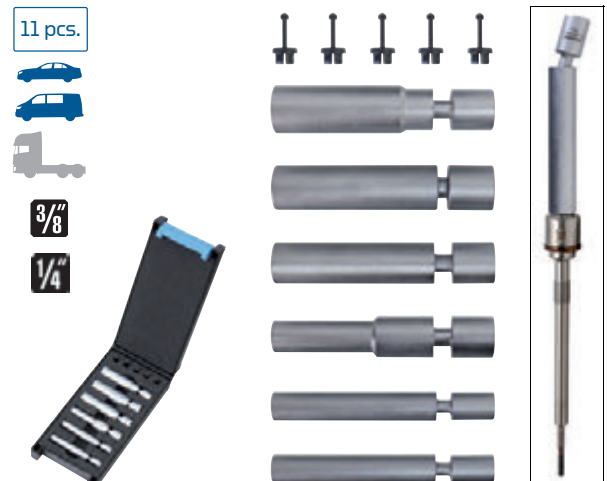
An indispensable tool set for the professional and damage-free removal and installation of spark plugs, glow plugs as well as 'PSG' glow plugs (pressure sensor glow plugs). The sockets are provided on the inside with a retaining rubber to prevent the spark plug/glow plug from falling out unintentionally.

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 |

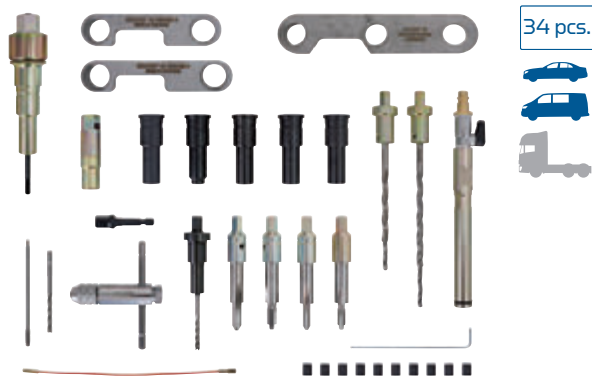


Recommended Accessory:

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

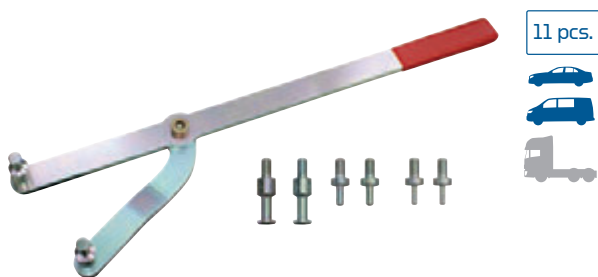
| Part No. | Description | Qty |
|----------------|---|-----|
| KL-0369-300 A | Roller-Type Stud Removal Socket | 1 |
| KL-1683-2012 | Centring Sleeve | 1 |
| KL-1683-201 | Base Mounting Plate, 2.3 JTD | 1 |
| KL-1683-202 | Base Mounting Plate, 3.0 JTD | 1 |
| KL-1683-2031 | Guide Sleeve for Milling 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 |
|---------------------------------|------|



11 pcs.



KL-0282-35 B [Code 2871300]

Reaction Wrench Kit (470mm long, adjustable)

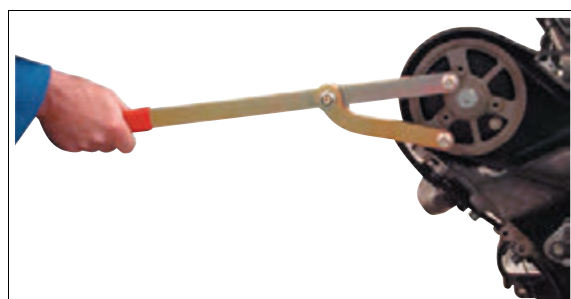
Universally suitable for use on perforated timing belt sprockets with a hole Ø not smaller than 6.5mm as found in: VW-Audi, Seat, Škoda, Alfa, Fiat, Lancia, Dacia, MG, Nissan, Ford, Opel/Vauxhall, Peugeot, Renault, Citroën, Rover, Volvo, Suzuki, Isuzu, Japanese vehicles, etc.

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)

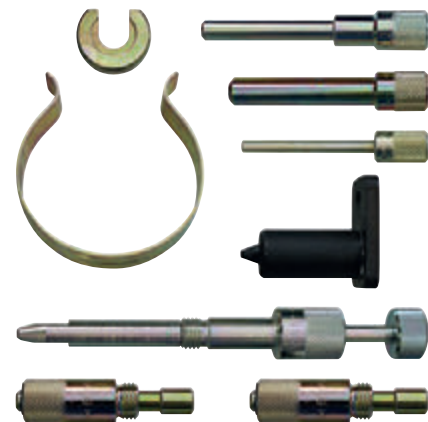
Alternative tool: 0194-C, 99395214, KM-6031, Mot.1054, 1.870.765.001, 1.860.617.000, 99360608, Mot. 910, 1.860.638.000, 0191-H, 99360614, 0191-B, 0191-2B, 0192-B, 2.000.018.200, 99360615, 0192-A, 0191-A, 0191-2A, 4533-TAD, 1.870.900.100, 0189-K, 0188-K, 0187-J, 0153-AK, 0132-AK

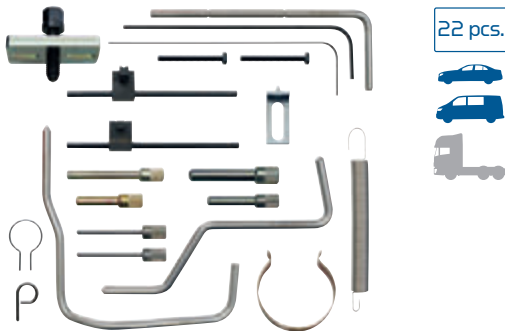
Designed for the locking/positioning of the injection pump shaft, camshafts and crankshaft. The kit also includes tools to lock the timing belt tensioner and to fix the timing belt during installation. An indispensable tool set when replacing a timing belt or performing an engine repair.

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, DW10UTD4, 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 |
|------------------|----------|



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" |
|--------|------|

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" |
|--------|------|

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" |
|--------|------|

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" |
|--------|------|

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" |
|--------|------|

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" |
|--------|------|

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" |
|--------|------|

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

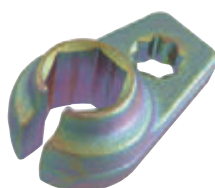
Universally suitable for use on oil filters and air dryer cartridges with Ø of 110-145mm as found in HGVs.

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.

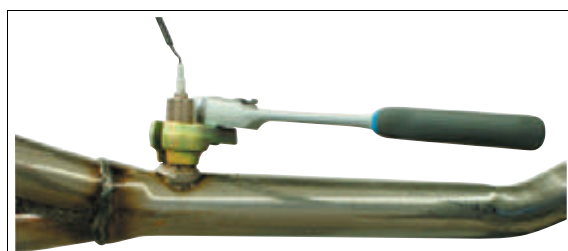
Alternative tool: J-39194-C

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.

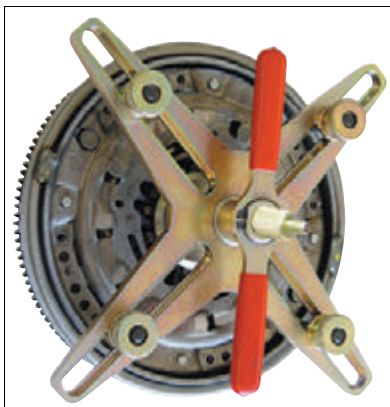
Advantages:

- 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

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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:

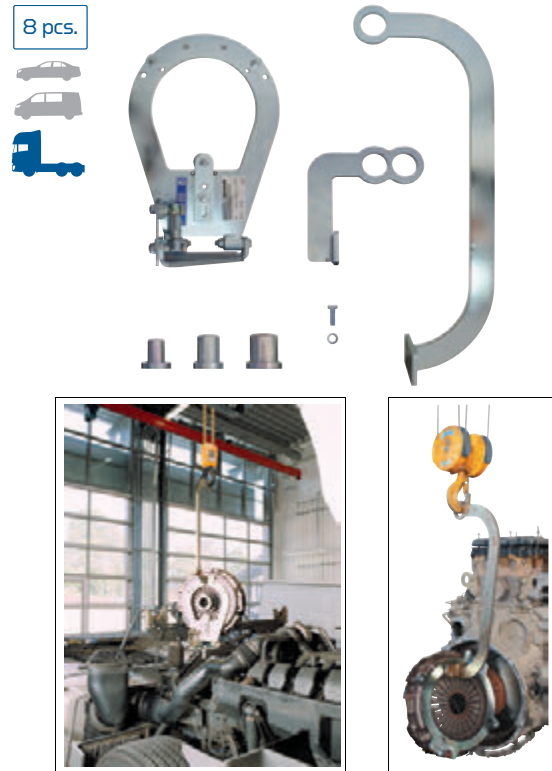
The application range of the **KL-1030-10** clutch mounting device can be further enhanced thanks to the various adaptors available as accessories. Thus, the device is also suitable for the removal/installation of flywheels and die-cast clutch pressure plates.

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 |



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

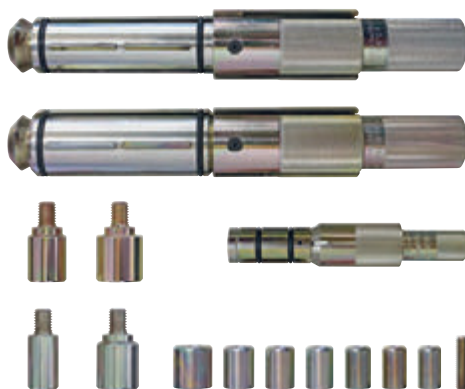
Suitable for use on HGVs with limited space at the gearbox area.

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.

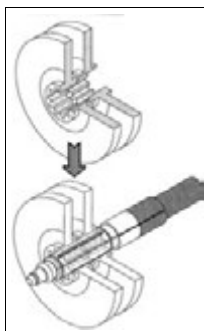
Tool Storage System:

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 |



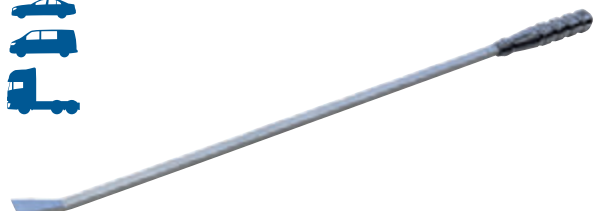
KL-0190-94 (Code 1961314) Pry Bar

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 silentblocs.

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

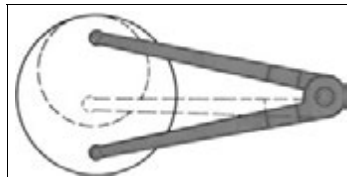
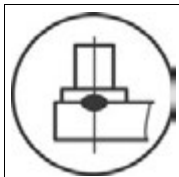
Universal fit for two-hole nuts with 5mm hole diameter as well as for belt pulleys; for example on VW-Audi engines with 1.9 TDI / PD, 2.0 TDI / PD, 2.5 TDI, 2.7 Turbo, 3.0 TFSI / TSI, etc.

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

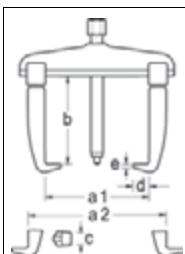
(Code 2300044)

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

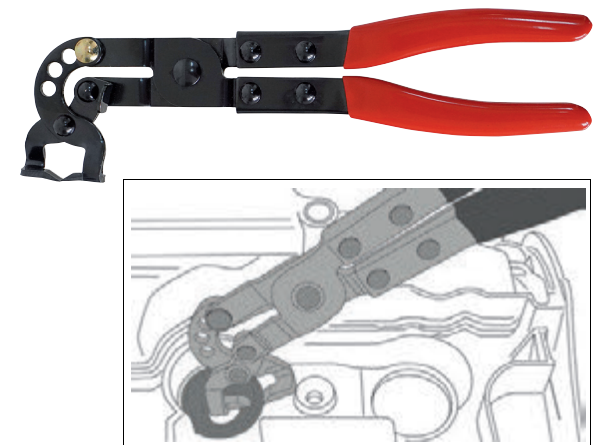
For removing press-fit injector seal rings from the cylinder head quickly and with ease.

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 |
|---------|-------|



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)

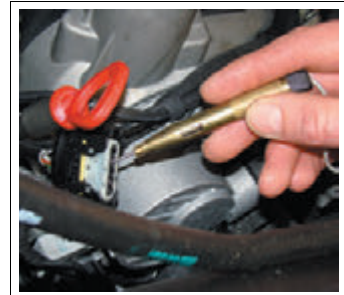
Test Lamp

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:

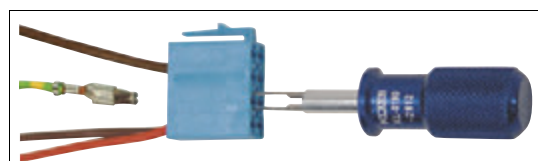
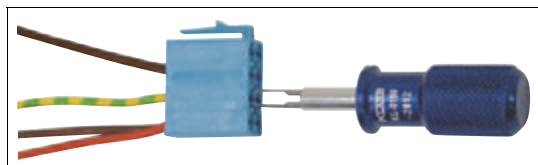
- The tool is easy to operate.
- Substantial time savings.
- Professional and safe working.

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 |

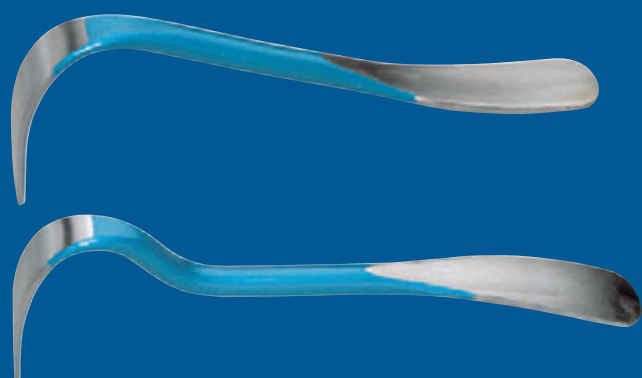
19 pcs.



252 - 288

Planishing hand anvils

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



292 - 293

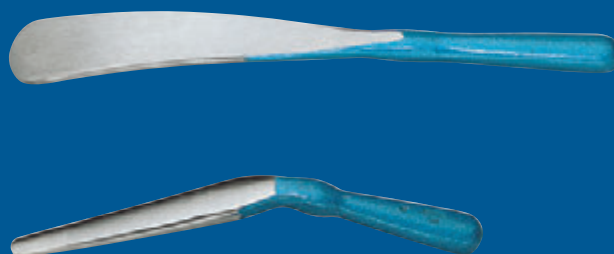
Prybar

- › 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 |

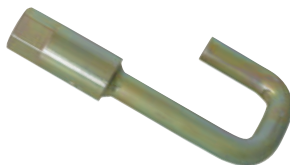


KL-0174-545

[Code 1920685]

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

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

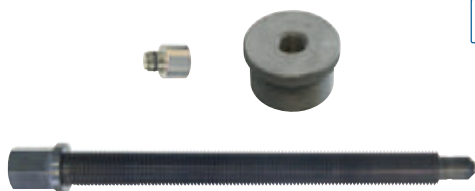


KL-0049-3020

[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]

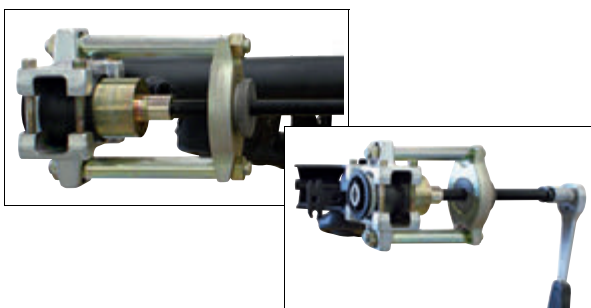
Mechanical Drive Set

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 |

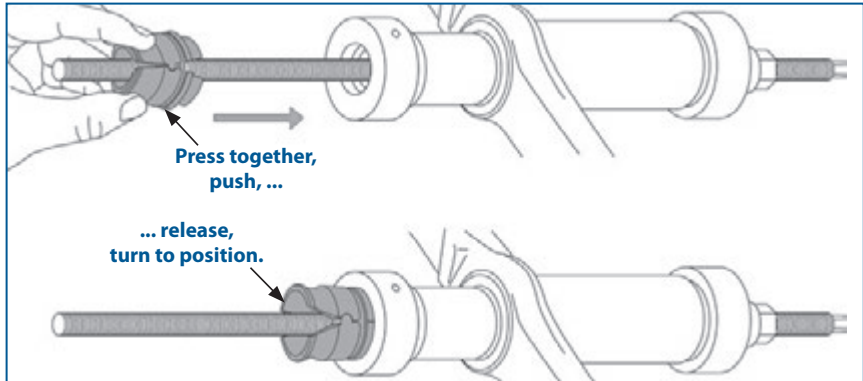


KL-0039-21.. QUICK-ACTION CLAMPING NUT

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 adapter, or a retaining ring.



KL-0039-23 (Code 3022269) (German Utility Model)

5 pcs.

Set of Quick-Action Clamping Nuts

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



| Part No. | Thread | Drive (Spindle and Nut) | | | | | | | | | | | | | | | |
|---------------------------|----------|-------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------------------|--------------|--------------|--------------|--------------|--------------|
| | | 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 | | | | | | |



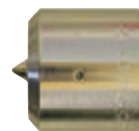
KL-0040-2812-5 (Code 3052346) Pressure Nut, M24, Ø 20.5mm



KL-0174-3701 (Code 3066096) Thrust piece, short

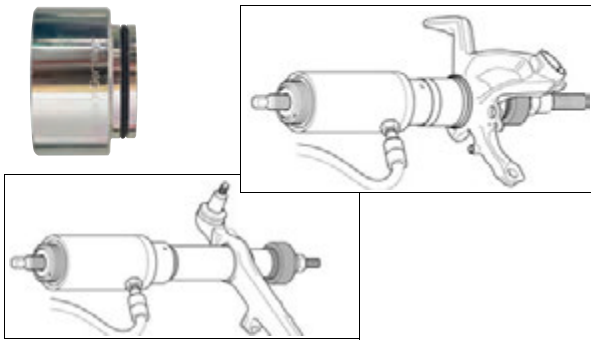
Suitable for Pressure Nut KL-0040-2812-5.

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

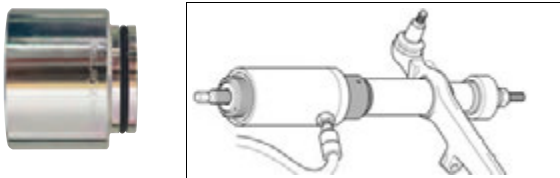
(Code 1975447)

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

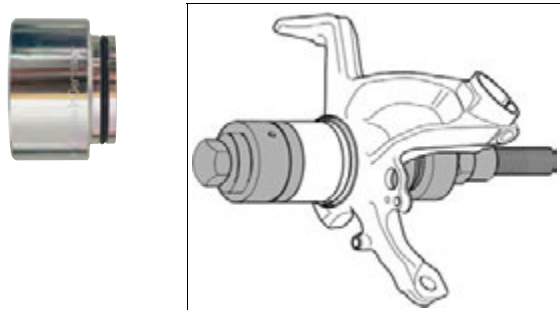
(Code 1975455)

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.



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

Technical Data:

| | |
|-------------------------|-----------------|
| Max. load: | 20t |
| Length of draw spindle: | 590mm |
| Thread of draw spindle: | M20 to UNC 1"-8 |

| 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 |



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

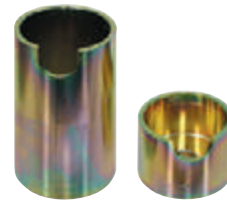
Technical Data:

| | |
|-------------------------|-----------------|
| Max. load: | 13t |
| Length of draw spindle: | 590mm |
| Thread of draw spindle: | M16 to UNC 1"-8 |

| 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 |

KL-1010-1010 (Code 2448114) Drive Sleeve Set, Ø 70mm

2 pcs.

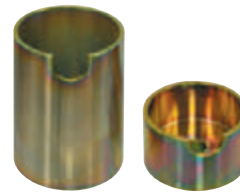


Scope of Delivery: KL-1010-1010 Drive Sleeve Set, Ø 70mm

| 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, silentblocs and suspension ball joints.

Necessary Drive Parts:

KL-0215-35 M25 Hydraulic Pump



17t

KL-0040-2520 (Code 1787136) Adaptor, 3/8", NPT to 1/4" NPT

Suitable for GEDORE Automotive, Longus, Rodcraft etc.



17t

KL-0215-321 (Code 1880462) Coupling Half, 1/4" (Hose Side)



17t

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 |



17t

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.

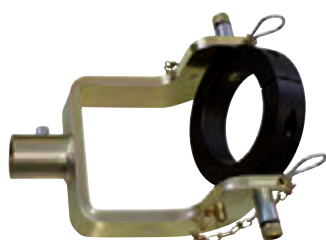
Advantage: Both hands free to work.

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 |



17t

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

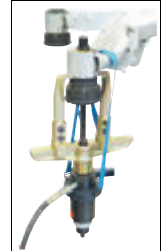


KL-0040-2590 (Code 1804073)

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.

28 t



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): | 2¾"-16 UNS |
| Retaining thread (pulling side): | M42x2 |
| Cylinder outer diameter: | 99mm |
| Cylinder overall length (piston retracted): | 235mm |
| Cylinder overall length (piston extended): | 285mm |
| Hydraulic fluid connection thread: | 3/8" NPT |
| Weight: | 9.6kg |

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, silentblochs 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).

5 pcs.

28 t



Scope of Delivery: KL-0215-35 M28 Hydraulic Hand Pump

| Part No. | Description | Qty |
|--------------|--|-----|
| KL-0215-33 | Hydraulic Hand Pump (without hose) | 1 |
| KL-0215-31 | Hydraulic Hose, 1.8m, with Hose-Side Connector | 1 |
| KL-0215-322 | Cylinder-Side Connector, 1/4" NPT | 1 |
| KL-0040-2520 | Adaptor, 3/8" NPT to 1/4" NPT | 1 |
| KL-0040-2829 | Pressure Gauge | 1 |

Technical Data:

| | |
|----------------|---------|
| Weight: | 7.5kg |
| Max. Pressure: | 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.

5 pcs.

28 t



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 |

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)

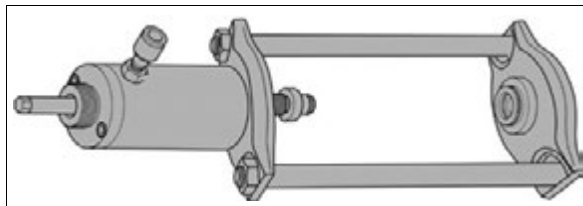
Press Frame (Lightweight, Short Design)

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



MISSION: KLANN POSSIBLE *Time saving, safe, well thought out tools.*

NOVELTIES 2022

KL-1010-90 K
SILENT BLOCK TOOL KIT

Made in Germany



NEW

Universally suitable for slotted and closed silent blocks on commercial vehicles.

- For outside diameters (installed/removed) 51/52, 60/62, 63/65, 65/70, 75/80 mm
- Enables the quick and professional removal and installation directly on the vehicle
- Additional mechanical drive pcs necessary!

Suitability: Universal, particularly for

MERCEDES **RENAULT** **VOLVO** **MAN**

| Code | No. | Bearing diameter (installed) | Width (case) | Depth (case) | Height (case) |
|---------|--------------|------------------------------|--------------|--------------|---------------|
| 3425703 | KL-1010-90 K | 51 / 60 / 63 / 65 / 75 mm | 442 mm | 357 mm | 151 mm |

KL-1010-106 K
DRIVE KIT 28T FOR KL-1010-SERIES

Made in Germany



NEW

Appropriate drive pcs for the commercial vehicle tool kit KL-1010-90-K.

Consisting of:

- Hydraulic cylinder 28t
- Pulling spindle M20 x 590 mm
- Quick-release nut M20
- Adapter
- Support sleeves, long, Ø 70 / 90 mm
- Support sleeves, short, Ø 70 / 90 mm

Hydraulic pump required!

| Code | No. | Max. load on the hydraulic cylinder | Max. load of pull spindle | Width (case) | Depth (case) | Height (case) |
|---------|---------------|-------------------------------------|---------------------------|--------------|--------------|---------------|
| 3427846 | KL-1010-106 K | 28 t | 20 t | 442 mm | 357 mm | 151 mm |

KL-1011-121
BPW SILENT BLOCK TOOL

Made in Germany

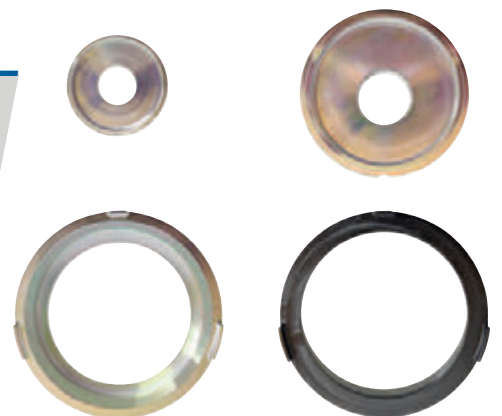
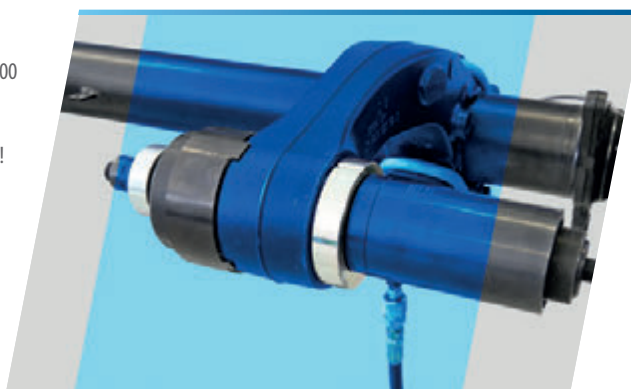


Suitable for silent blocks with an axle bore diameter of 132 mm.

- For quick and professional insertion and removal on the wishbone
- For steel-rubber bushings No. 02.0314.38.00
- For example, on BPW ECO Air/ECO Air Compact axles
- Additional mechanical drive pcs necessary!

Suitability: Universally

NEW



| Code | No. | Sleeve | Thrust piece bore | Weight |
|---------|-------------|---------|-------------------|--------|
| 3417158 | KL-1011-121 | conical | eccentric | 6.8 kg |

NEW

**ORGANIZED
UNIVERSALLY
ROBUST
DIVERSE**



KL-4999-420

Made in Germany



MOBILE WORKBENCH WITH JUMBO HGV RANGE

- Extensive product range for commercial vehicles/ agricultural machinery for professionals
- Tools in metric design
- Wide drawers with full-extension runners
- Central locking with cylinder lock
- Safety locking per drawer, one-hand operation
- Easy on the eye and organized: Drawers completely filled with foam "Check Tool" inserts
- Dimensions: H 985 x B 1.200 x T 550mm



302 pcs

| Code | No. | Content | Total load carrying capacity (static/mobile) |
|---------|-------------|--|--|
| 3418367 | KL-4999-420 | 1/4"-range (waf 4-13, hexagon 4-8 and T8-T25) 1/2"-range (waf 10-32, T20-T60 long, hexagon 6-19 and hexagon long 6-14, impact wrench inserts waf 17-32 and telescope ratchet) 3/4"-range (waf 21-60, E24 and hexagon long waf 14 and impact wrench inserts waf 24-41 and swivel head breaker bar 980 mm) Bit set and ratchet screwdriver Screwdriver sets (standard 4,5-8, PH 1-4, T10-T40 and hexagon 2-10) Spanner sets (waf 6-41 + brake lines – and starter block key) Bump key sets (E18/E20/E24, 6-edge size 24/26/27 and 12-edge size 19/21/24) Extensive range of pliers Extensive range of impact and lever tools Extensive range of measuring, cutting and chipping tools | 1000kg / 750kg |

NEW



KL-4999-820 / 4999-8200

MOBILE WORKSHOP/ ASSEMBLY TROLLEY MODULO FOR COMMERCIAL VEHICLES

In its unique composition, the assembly trolley "MODULO 820/8200" for commercial vehicles is the ideal mobile workstation for fast, organised, and efficient repairs.

Universally applicable for repairs on wheel bearings, steering and axle systems on commercial vehicles, buses, construction machinery, agricultural machinery, trailers, and semi-trailers.



1



Body:

- Dimensions: H 985 x W 1200 x D 635 mm
- 30 mm thick multiplex laminated beech board, surface additionally protected by linseed oil varnish
- Worktop offset to the rear allows flush parking against the wall
- A drawer unit in trolley width
- Manoeuvrable and easy to steer with drive/steer handle
- Side panels with Euro perforation 10 x 38 mm for attaching hooks and tools
- Sheet steel, corrosion-resistant and scratch-resistant powder-coated, GEDORE blue

Drawers:

- Design with four drawers
- Central lock with cylinder lock
- Wide drawers (W 998 x D 474 mm) with full extension, can be taken out
- Single lock prevents opening of more than one drawer, one-hand operation
- Ball-bearing guide rails with self-closing mechanism
- Load-carrying capacity per drawer 70 kg
- Sheet steel, corrosion and scratch-resistant powder-coating, GEDORE blue

2



KL-0039-1003 - Mounting adapter for hydraulic cylinders

KL-0039-2120-2 - Quick-release nut (M20)

KL-0040-2812-1 - Thrust/pull spindle (M24 x 590 mm)

KL-0040-2812-5 - Thrust nut (M24)

KL-0040-2846-1 - Pull spindle (M20 x 590 mm)

32 .. - Sockets, 3/4" (hexagon: 22, 24, 27, 30, 32, 36, 38, 41, 46 mm)

3287 - Cross-handle, 3/4" (500 mm)

3290... - Extensions, 3/4" (200 + 400 mm)

3293 U-2 - Reversible ratchet, 3/4"

7 XL .. - Ring-fork spanner (extra long): 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24, 27, 30, 32, 36, 41 mm

IN 32 L 14-155 - Screwdriver bit socket, 3/4" (inner hexagon: 14 mm)

3



KL-1005-100 A - Wheel hub puller kit

KL-1005-110 - Wheel hub puller compact bearing

KL-1039-111 - Press frame 28 tonnes

4



KL-0040-2800 - Hydraulic cylinder 28t

KL-0165-3 A - Set of ball joint breakers (with six forks)

KL-0169-82 - Removal tool for tie-rod end

KL-1010-1010 - Drive sleeve set Ø70 mm

KL-1010-120 A - Thrust piece/sleeve set Ø60

KL-1010-140 B - Thrust piece/sleeve set Ø65 mm

KL-1029-300 - Wheel hub lifting tool

KL-1070-1224 - Slogging double ring spanner SW24

600 E-1500 - Metalworker's hammer 1.5 kg

Content / range of application:

- Various drive pcs for operating the tool kits (depending on model with hydraulic cylinder 28 t)
- Pressing out wheel hubs with removable hub cap
- For wheel hubs with bolt circle diameters 8x275 mm and 10x335 mm
- For compact wheel bearings with a stud diameter 10x120 mm to 14x144 mm
- For pressing bushings, bearings, and bolts in and out
- Removal and installation of slotted and closed silent blocks

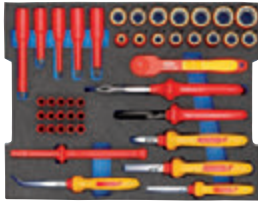
- Separating of ball joint connections on steering and axle systems
- Loosening and adjusting of tie rod ends
- Lifting of heavy-weight wheel hubs with a workshop crane
- Loosening and tightening of brake calliper screw connections which are hard to unscrew
- Including high-quality GEDORE hand tools

The suitable hydraulic pump can be found in our scope of products.

93 pcs

| Code | No. | W/H/D | Load-carrying capacity (static / dynamic) | Content |
|---------|--------------|----------------------|---|----------------------------|
| 3425835 | KL-4999-820 | 1,200 / 985 / 635 mm | 1,000 kg / 750 kg | incl. hydraulic cylinder |
| 3427587 | KL-4999-8200 | 1,200 / 985 / 635 mm | 1,000 kg / 750 kg | without hydraulic cylinder |

1100-1094
**VDE TOOL KIT
 HYBRID**



- The perfect tool kit for maintenance and repairs on hybrid and electric vehicles
- Suitable for vehicles of all manufacturers
- All tools are protective insulated to EN 60900/EC 60900
- GEDORE L-BOXX® 136 is compatible to the Sortimo® vehicle equipment in your service car

53 pcs 3/8" DVE 1000V

NEW

| Code | No. | Content | Depth (case) | Width (case) | Height (case) | Weight |
|---------|-----------|---|--------------|--------------|---------------|--------|
| 2979063 | 1100-1094 | 3/8" VDE socket spanner no. VDE 30, 6 8 9 10 11 12 13 14 15 16 17 18 19 20 22 mm 3/8" VDE screwdriver bit no. VDE INX 30, 8 10 12 mm 3/8" VDE extension no. VDE 3090 -3 -6, 75 150 mm, 3/8" VDE reversible ratchet no. VDE 3093 U VDE slotted screwdriver no. VDE 2170, 2.5 3.5 4 5.5 mm VDE cross-head screwdriver no. VDE 2160 PH 1 2 3 VDE TX screwdriver no. VDE 2163 TX T20 T25 T30, VDE cable shear no. VDE 8094, 200 mm VDE universal pliers no. VDE 146 10, 10", VDE power combination pliers no. VDE 8250-200 H, 200 mm 2K handle VDE high leverage diagonal cutter no. VDE 8314-180 H, 180 mm VDE Flat round-nose pliers no. VDE 8132 AB-200 JC, 200 mm, angled 2K handle VDE flat pliers no. VDE 8120-160 H, 160 mm 2K handle VDE cable stripping knife no. VDE 4522, 180 mm, meter connection fitting no. V 914, size 1 2 3 + GEDORE L-BOXX® | 357 mm | 442 mm | 151 mm | 8.3 kg |

KL-4600-100 K
**VDE SUPPLEMENTARY
 KIT**



Made in Germany

NEW



- The unique VDE supplementary kit offers the possibility to secure hybrid and electric vehicles ideally for working on them
- Perfect addition to the VDE tool kit 1100-1094
- For maximum safety at the workplace
- Includes an empty compartment to accommodate a VDE torque spanner 4508-02/-05

Includes a digital HV tester!

10 pcs

| Code | No. | Content | Weight |
|---------|---------------|---|--------|
| 3413659 | KL-4600-100 K | 1x V 912 10 - Electrician's protective gloves incl. undergloves, 1x VDE 910 25 - Rubber cloth cover 250 x 350, 1x V 911 100 - ISO Insulation mat, 1x KL-4600-1001 - Barrier tape, 1x KL-4600-1002 - Warning sign "Flash", 1x KL-4600-1003 - Voltage tester 1.000 V, 1x KL-4600-1005 - Safety padlock, 1x KL-4600-1006 - Warning sign High voltage "Switched on", 1x KL-4600-1007 - Warning sign High voltage "Switched off" + GEDORE L-BOXX® | 11 kg |

KL-4600-10 Z
**VDE HYBRID TOOL
 INCL. SUPPLEMENT**



**Complete package
 at a special price**

| Code | No. | Consisting of |
|---------|--------------|---|
| 3418642 | KL-4600-10 Z | KL-4600-100 K VDE supplementary kit and 1100-1094 VDE HYBRID tool kit |

NEW

PREMIUM UPGRADE FOR THE E-MOBILITY WORKSHOP



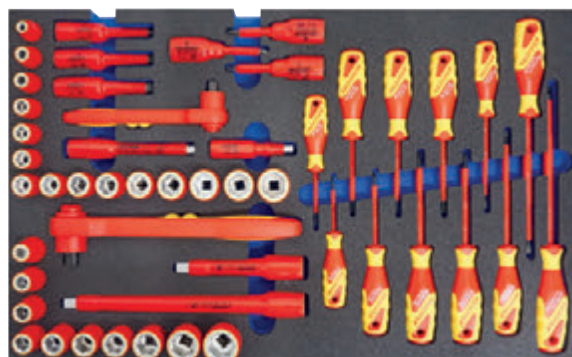
KL-4600-200

TOOL TROLLEY WITH HIGH-VOLTAGE ASSORTMENT (103 PCS)

- The perfect tool kit for maintenance and repairs on hybrid and electric vehicles
- Suitable for vehicles of all manufacturers
- All tools are protective insulated to EN 60900/EC 60900
- Tool trolley: Side walls with Euro perforation, externally mounted Heavy-duty chassis, ball-bearing guide rails, and central lock
- Includes: digital voltage tester, 3/8" VDE torque spanner, Safety lock, sockets, and ratchet, 3/8" and 1/2", and many more

Content:

- 3/8" VDE-tool assortment with SW 6 - 22; XZN M8 - M12
- 3/8" VDE torque spanner 5 - 25 Nm
- 1/2" VDE workshop assortment with SW 10 - 24; IN 5 - 8 mm;
- VDE single open-end spanner SW 9 - 24
- VDE single end ring spanner SW 8 - 22
- VDE slotted and cross-head screwdriver; TX T8 - T30
- VDE cable shear, VDE universal pliers, VDE power combination pliers, VDE power diagonal cutter, VDE flat nose-round pliers, angled, VDE flat pliers, VDE cable stripping knife
- Meter connection fittings
- Digital voltage tester 1.000 V
- Electrician's protective gloves
- Undergloves
- Rubberised cloth cover 250 x 350 mm
- ISO insulation mat
- Barrier tape
- Warning sign "Flash"
- Warning sign high voltage "Switched ON", Warning sign "Switched OFF"
- Safety padlock
- Plastic clamp 80 mm and 160 mm
- Cable splitting wedge
- Rubber hammer

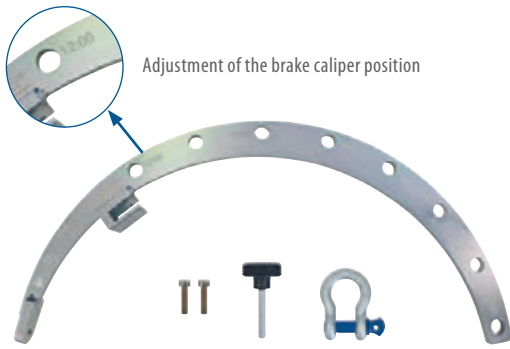


103 pcs 3/8" 1/2" DVE 1000 V

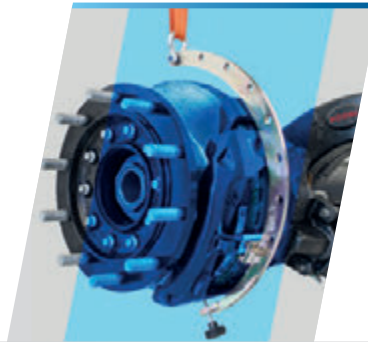
| Code | No. | Dimensions | Number of drawers | Load capacity (mobile/static) | Load capacity (per drawer) | Design |
|---------|-------------|----------------------|-------------------|-------------------------------|----------------------------|-------------|
| 3415740 | KL-4600-200 | H 985 W 775 D 475 mm | 6 | 650 kg / 900 kg | 40 kg | 3/8" + 1/2" |

KL-1072-100

BRAKE CALIPER LIFTING DEVICE FOR HGV



Adjustment of the brake caliper position



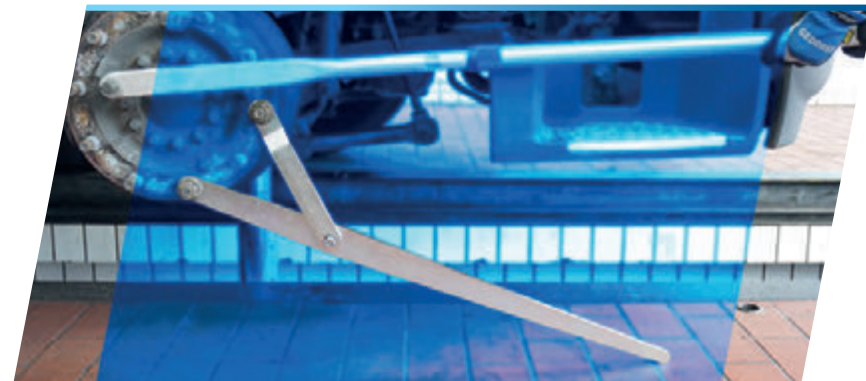
- Universal fit for approx. 90% of the brake calipers on commercial vehicles and trailers on the market.
- Allows easy lifting, which protects the operator's back of heavy brake calipers by using a workshop crane
- Positioning at a precise angle
- One-man operation

NEW

| Code | No. | Maximum load capacity | Brake caliper position | Shackle position | Weight |
|---------|-------------|-----------------------|------------------------------|-------------------|--------|
| 3415589 | KL-1072-100 | 75kg | 0:00 to 5:00 / 7:00 to 12:00 | 8-way, adjustable | 2.1kg |

KL-1000-0115

WHEEL HUB HOLDING TOOL FOR HGV



- Universally suitable for commercial vehicles, municipal vehicles and agricultural machines
- Enables the wheel hub to be professionally locked in combination with the wheel studs
- For loosening and a controlled torque tightening of the wheel bearing, stub axle and brake disc screw connections as well as of the hub cap

NEW

| Code | No. | Length | Bore diameter |
|---------|--------------|--------|---------------|
| 3413195 | KL-1000-0115 | 990mm | 23mm |

KL-1029-300

WHEEL HUB LIFTING TOOL FOR HGV



- Fits universally for commercial vehicles and trailers
- For an easy and back-friendly lifting of heavy wheel hubs
- One-man operation
- Stepless adjustment in order to keep the wheel hub in balance
- Versatile use, e.g. when changing brake discs

NEW

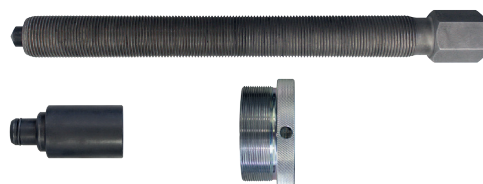
| Code | No. | Maximum load capacity | Max. wheel bolt diameter | Adjustment range | Weight |
|---------|-------------|-----------------------|--------------------------|------------------|--------|
| 3413071 | KL-1029-300 | 300kg | 22mm | 110mm | 1.1kg |

KL-1005-800

MECHANICAL DRIVE KIT FOR HGV



NEW



- For simple mechanical drive of commercial vehicles wheel hub puller sets **KL-1005-1...**
- Can also be used on press frame **KL-1039-111** with thrust spindle 1.3306500 (accessory)

| Code | No. | Thread | Size (waf) | Working length |
|---------|-------------|--------|------------|----------------|
| 3412881 | KL-1005-800 | G1" | 36mm | 310mm |

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| 8726 | Brake Calliper File | 47 |
| 1.04/ST-HP-B | Puller set with stand | 66 |
| 1.37/2 | Cylinder liner puller | 58 |
| 1.62/8 | Wheel hub puller | 32 |
| 304 11x13 | Half moon ring spanner | 60 |
| 304 13x15 | Half moon ring spanner | 60 |
| 304 13x17 | Half moon ring spanner | 60 |
| 304 14x16 | Half moon ring spanner | 60 |
| 304 14x17 | Half moon ring spanner | 60 |
| 304 15x17 | Half moon ring spanner | 60 |
| 304 16x18 | Half moon ring spanner | 60 |
| 304 19x22 | Half moon ring spanner | 60 |
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