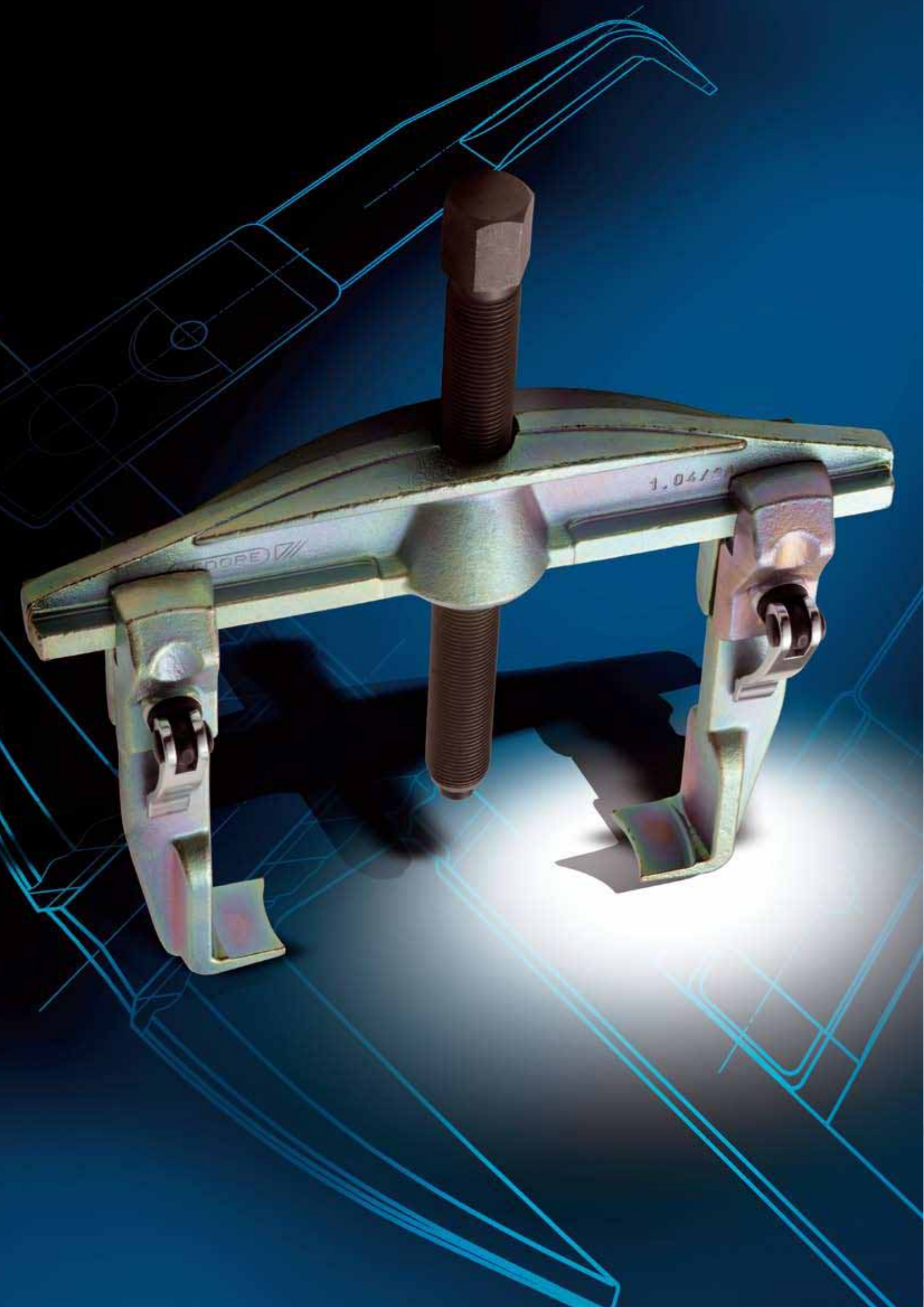






### ++ POWERFUL PULLING



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STUD EXTRACTOR



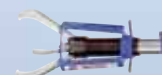
404 - 405

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## GEDORE PULLERS

### FOR MAXIMUM PERFORMANCE - EVEN UNDER A MULTI-TON LOAD

- High-grade industrial quality for the toughest forms of continuous use and safety in everyday work
- Our innovative force over the past few years, which has given rise to numerous patents and utility models, is very much a reflection of our extensive track record in the development and production of puller tools.
- Effortless moving of multi-ton loads
- Ideal for the controlled use of force and a vital requirement for safe working: puller in association with a torque wrench



## BEST-POSSIBLE QUALITY FOR YOUR SAFETY

- Maximum value is attached to the safety of the puller when selecting the material and manufacturing process for each individual component part beforehand.
- Any overloading of drop-forged components, such as 2-arm cross-beams, legs and clamping parts, is revealed through deformation - on account of the course of their fibres - rather than through fracturing and/or splintering.
- Thermo-chemical treatment bestows a hardness on the components meeting the demands placed.
- Strict quality checks ensure a constant high level



## INTELLIGENT DESIGNS - WELL THOUGHT- OUT COMPONENTS

- The refined GEDORE pullers impress as much through their quality as they do through their user-friendliness and superiority in detail:
- A lasered scale on the 2-arm cross-beam enable the legs to be symmetrically aligned
- Leg brake and quick-release clamp are those rapid and assured ways of locking and fastening the puller legs
- Both the nitro-carburised mechanical and hydraulic spindles have properties that make work considerably easier and safer.

## FLEXIBILITY AND SPECIALIZATION - THE RIGHT TOOL FOR EVERY DEMAND PLACED

- Irrespective as to whether the same pulling operations are repeated or whether you are confronted each time with new pulling challenges, special or flexible all-purpose pullers - saving both on time and force - are there to meet your individual demands
- The 1.06 and 1.07 series provide that unsurpassed flexibility. 2 and 3-arm cross-beams of various sizes, legs in the most varied of shapes and lengths, various fastening systems and the scope to replace the mechanical spindle by a hydraulic one all give rise to a modular system with which you can extensively retrofit and update your puller - thus making it applicable for all sorts of pulling situations.
- Appropriate ranges for varied fields of work - including the workshop, industry and agricultural/constructional machinery repairs.
- From the incidental parts to the heavy-duty puller, GEDORE provides tools for external, internal and ball bearing pullers and special-purpose tools. Should you still not find the right tool, then do contact us as to possible customized manufacturing.



# THE PRODUCTION

## MANUFACTURING PROCESS OF A 2-ARM 1.06 PULLER

In line with the requirement, we hot-form the ideal steel for each puller sub-assembly.



### CROSS-BEAM

- 1 Blank... from hard and tempered steel cut from the bar.



- 2 "Pre-upsetting"... Mighty hammer blows drop-forged the cut-to-length forging into the hot "pre-form".



- 3 Rough-forging... Powerful drop-hammer blows contour the cross-beam in the first die-sinking.



- 4 Final forging... The cross-beam obtains its ultimate shape in the second die-sinking.



- 5 De-burring... Excess burr is removed under an eccentric press.



- 6 Forged blank... Ready for further processing and finishing.



- 7 Calibrating... The width of the leg guide is calibrated and sand-blasted. Important for the following operations.



- 8 Grinding... Grinding the cross-beam on all sides.



- 9 Milling the leg guide... The height of the leg guide is milled to size.



- 10 Drilling... Tapped hole is drilled.



- 11 Cutting... The thread for the spindle is cut.



- 12 Zinc-plating... Electro-galvanized for corrosion protection.



- 13 Stamping... Manufacturer and Item No. are stamped on in a permanent fashion.



- 14 Laser... The check-tool marking is lasered.



### CLAMPING PARTS

- 1 Blank .. made of hard and tempered steel and cut to size from the bar.



- 2 Upsetting... Mighty hammer blows drop-forged the cut-to-length forging into the hot "pre-form".



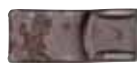
- 3 Rough-forging... Powerful drop-hammer blows contour the clamping parts in the first die-sinking.



- 4 Final forging... The clamping parts obtain their ultimate shape in the second die-sinking.



- 5 Hot de-burring... Still hot excess burr is removed under an eccentric press.



- 6 Forged blank... Ready for further processing and finishing.



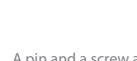
- 7 Calibrating... The clamping part is calibrated and sand-blasted.



- 8 Perforating... The two holes for connection with the leg are cold-holed.



- 9 Zinc-plating... Electro-galvanizing protects the clamping part from corrosion.



- 10 Mounting... A pin and a screw and/or the quick-release clamp are for connecting two clamping parts to the leg.



### LEGS

- 1 Blank .. made of 31CrV3 and cut to size from the bar.



- 2 Forging... hot, drop-forged.



- 3 De-burring... Excess burr is removed under an eccentric press.



- 4 Calibrating... The leg is calibrated and sand-blasted.



- 5 Drilling... The holes for the clamps are drilled.



- 6 Milling... Milling provides the leg base with its optimum form.



- 7 Tempering... A special thermal treatment involving inert gas gives the leg its extreme hardness and toughness. Hardening ensures the required hardness and the annealing which follows imparts that toughness to the legs. Hardening and annealing together are referred to as tempering.



- 8 Sand-blasting... Sand-blasting is made use of to clean the surface before processing continues.



- 9 Zinc-plating... Electro-galvanizing protects the leg from corrosion.



- 10 Pressing-in... The connecting pin for the two clamping parts is pressed in.



### SPINDLE

- 1 Blank ... from hard and tempered steel cut from the bar.



- 2 Turning + drilling... Turn the spindle to measure and the drill hole for the spindle tip is inserted.



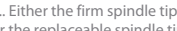
- 3 Rolling... The fine thread is rolled.



- 4 Nitro-carburating... Edge-layer hardening of the thread. The spindle is toughened at the edge and thus resistant to wear. The core remains "soft" and flexible and resiliently absorbs any stresses arising.



- 5 Riveting... Either the firm spindle tip is permanently riveted or the replaceable spindle tip inserted.

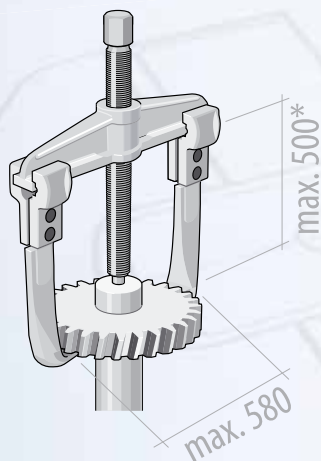


## YOUR PATH TO THE RIGHT PULLER

----- ++

- + HOW CAN THE COMPONENT TO BE EXTRACTED BE GRIPPED?
- + IS A SUPPORT POSSIBLE EITHER EXTERNALLY OR INTERNALLY?
- + WHICH CLAMPING SPREAD/REACH HAS TO BE OBTAINED?

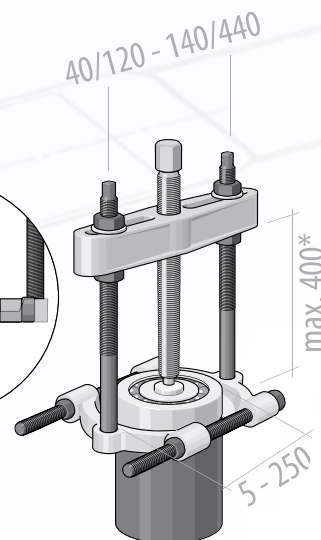
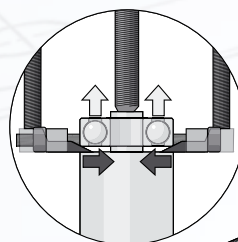
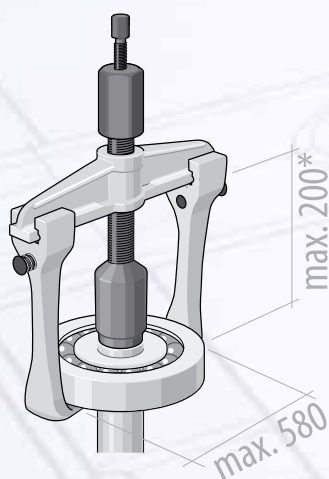
### EXTERNAL PULLING



- ✔ The component to be extracted can only be gripped externally
- ✔ The centre axle is for supporting purposes



364 - 389



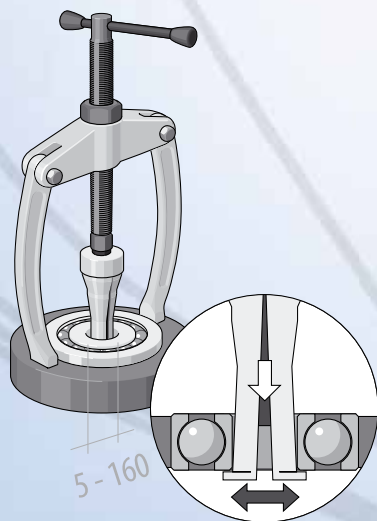
- ✔ The component to be extracted is well set into, thus ruling out the use of pulling legs
- ✔ The centre axle is for supporting purposes



390 - 391

### + INTERNAL PULLING

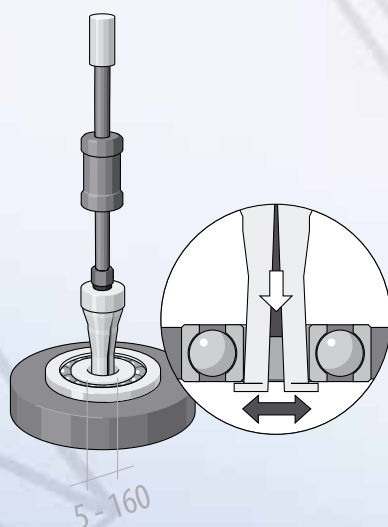
- ✔ The component to be extracted can only be gripped internally
- ✔ Centre axle supporting is not possible



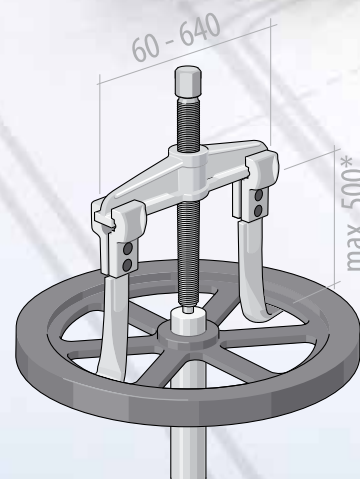
- ✔ Supporting possible outside of the component



394 - 398



- ✔ No support possible - thus the use of extracting aids



- ✔ Centre axle supporting is possible



368 - 373

\* extendable using extensions

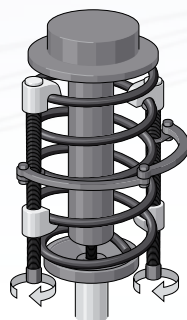
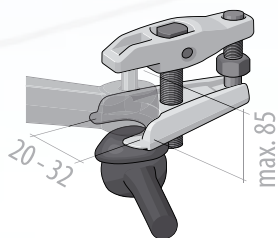




## + EXTRACTION USING A SPECIAL-PURPOSE TOOL

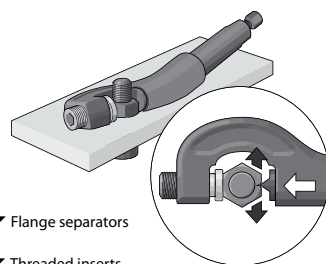
Automotive tool for

- Ball joints
- Oil filters / cartridges
- Steering wheel
- Springs
- Wheel hubs etc.



► Nut splitters

► Stud extractors



► Flange separators

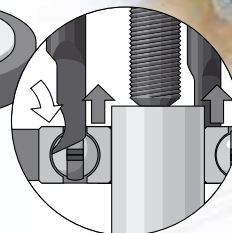
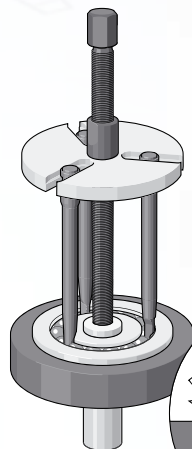
► Threaded inserts



399 - 405

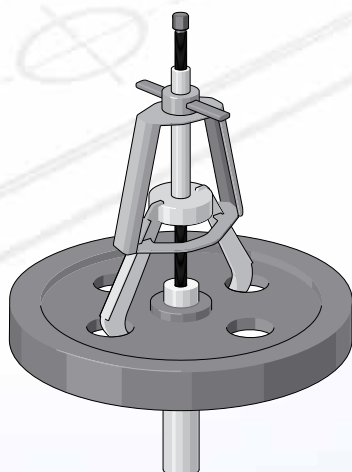
## + BALL BEARING EXTRACTION

- The ball bearing to be pulled is fitted on a shaft and in a housing and, as such, can neither be internally or externally gripped



392 - 393

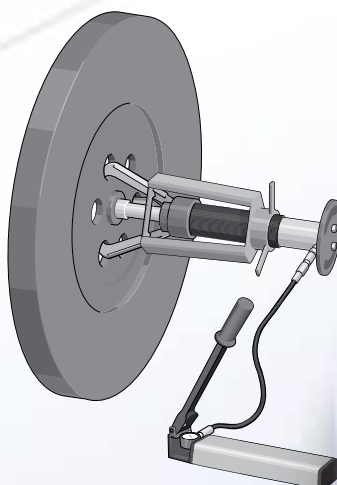
## + HEAVY-DUTY EXTRACTING



- Mechanical extracting of heavy loads up to 36 tons



408 - 409



- Hydraulic extracting of heavy loads up to 45 tons



410 - 415

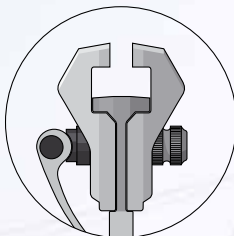


# 1.04 PULLER CONCENTRATED POWER FORGED FROM STEEL ----- ++

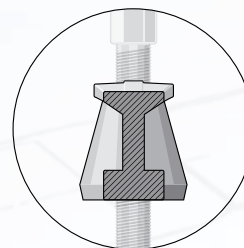
## A THOROUGHLY SUPERIOR TYPE OF PULLER



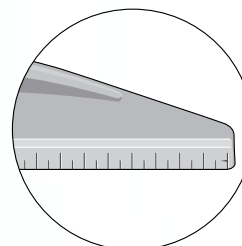
The legs of the 1.04 puller series have a T-profile. This ensures a positive fit between leg and cross-beam. The T-profile transfers the tensile force of the hooks via the clamping parts to the cross-beam - with no losses involved. The quick-release adjuster makes for trouble-free setting and readjustment



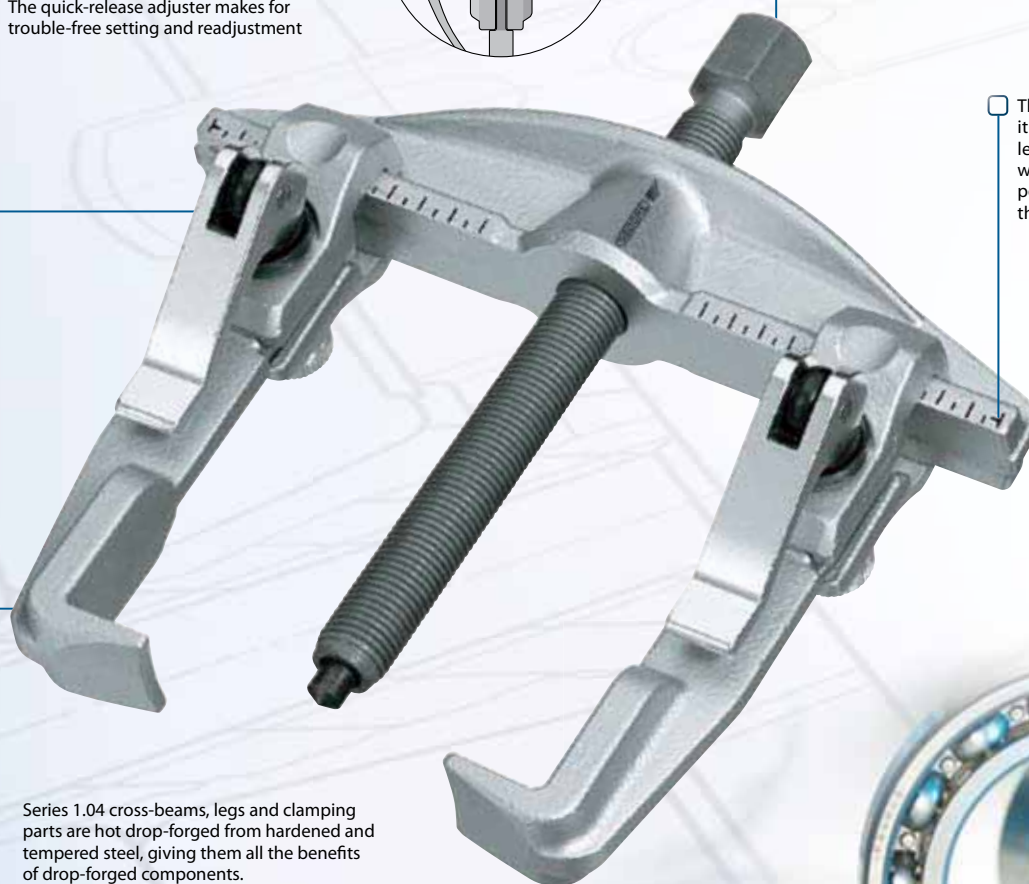
Reinforced cross-beam - the additional arching at the top of the crossbar produces an H-profile which, in turn, raises the load capacity as against the flexural torque.



The permanently lasered scale makes it easier to symmetrically align the legs. This effectively stops any tilting when extracting caused by incorrectly positioned legs. A final marking specifies the maximum clamping spread.



Series 1.04 cross-beams, legs and clamping parts are hot drop-forged from hardened and tempered steel, giving them all the benefits of drop-forged components.



### SAFETY-RELEVANT

Forces amounting to several tons in weight act on the puller during the extracting operation! Drop-forged components "announce" possible overloading by bending. This is due to the fibre course of the material during forging permitting a certain flexibility of the components ahead of fracturing - an extremely "healthy" property, in fact !



### GEDORE SPINDLES...

...comprise turned hardened and tempered steel. The fine thread is then rolled - this additional strengthening of the steel gives rolled thread a higher strength than a thread produced by cutting.

...have a fine thread which stops any unintended slackening from vibrations.

...are thermo-chemically treated. Nitro-carburating gives the spindle a high degree of wear and corrosion resistance. Oils and greases are not needed and, as such, the thread stays clean and smooth much longer.

...are fitted out with a replaceable spindle tip which is equally suitable for both centred and non-centred shafts.

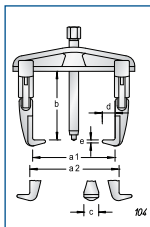
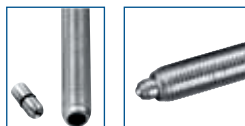




## 1.04

### UNIVERSAL PULLER 2-arm pattern

- For the safe and quick removal of pulleys, wheels, ball bearings, etc.
- Due to the bending-moment reinforcement on its back face, the energy-saving design of the cross-beam means even stronger and safer pulling work
- Scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- With the newly-developed cantilever hook design, it is possible to use these higher forces without losses over the whole width of the cross-beam
- The quick-action adjustment feature supports the energy-saving and fast operation
- Spindle with replaceable ball and tip point
- Upgradeable with hydraulic spindle (see table)

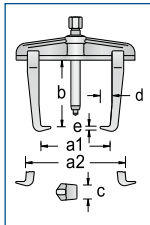
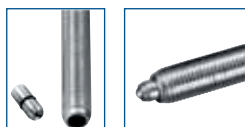


| Code    | No.            | a <sub>1</sub> | a <sub>2 min</sub> | a <sub>2 max</sub> | b   | Spindle        | Spindle tip | mm | c  | d  | e   | max. t | Load | Weight |
|---------|----------------|----------------|--------------------|--------------------|-----|----------------|-------------|----|----|----|-----|--------|------|--------|
| 1307703 | <b>1.04/1A</b> | 130            | 70                 | 170                | 100 | M 14x1,5 x 140 |             | 17 | 22 | 12 | 3.0 | 3.0    | x    | 1.2    |
| 1307827 | <b>1.04/2A</b> | 200            | 110                | 260                | 150 | G 1/2 x 210    | 1.06/HSP1   | 22 | 30 | 18 | 3.5 | 5.0    | x    | 3.4    |
| 1307940 | <b>1.04/3A</b> | 350            | 150                | 420                | 200 | G 3/4 x 280    | 1.06/HSP2   | 27 | 36 | 28 | 6.5 | 7.5    | x    | 7.7    |

## 1.04/B

### UNIVERSAL PULLER 2-arm pattern, rigid legs with leg brake

- Due to the bending-moment reinforcement on its back face, the energy-saving design of the cross-beam means even stronger and safer pulling work
- Rigid legs forged from one piece
- The legs clamp automatically when under tension
- Leg brake - prevents unintentional leg slipping. The leg can be slid along the cross-beam at the push of a button
- By reversing the legs, this tool can be used as an internal or external puller
- Scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- Spindle with replaceable ball and tip
- Spindle thermo-chemically hardened
- Upgradeable with hydraulic spindle (see table)



| Code    | No.              | a <sub>1</sub> | a <sub>2 min</sub> | a <sub>2 max</sub> | b   | Spindle        | Spindle tip | mm | c  | d  | e   | max. t | Load | Weight |
|---------|------------------|----------------|--------------------|--------------------|-----|----------------|-------------|----|----|----|-----|--------|------|--------|
| 1981110 | <b>1.04/1A-B</b> | 130            | 70                 | 170                | 100 | M 14x1,5 x 140 |             | 17 | 22 | 15 | 3.0 | 3.0    | x    | 1.2    |
| 1981129 | <b>1.04/2A-B</b> | 200            | 110                | 260                | 150 | G 1/2 x 210    | 1.06/HSP1   | 22 | 30 | 24 | 3.5 | 5.0    | x    | 3.4    |
| 1981137 | <b>1.04/3A-B</b> | 350            | 150                | 420                | 200 | G 3/4 x 280    | 1.06/HSP2   | 27 | 36 | 33 | 5.0 | 7.5    | x    | 7.7    |



## LEGS WITH LEG BRAKE



376  
-  
377

## 104/E

### QUICK-RELEASE PULLING LEG

- Quick-release pulling leg for 1.04



| Code    | No.                 | Part    | b   | c  | d  | e   | Weight |
|---------|---------------------|---------|-----|----|----|-----|--------|
| 1499351 | <b>104/A-100-TE</b> | 1.04/1A | 100 | 22 | 12 | 3.0 | 0.3    |
| 1499378 | <b>104/B-150-TE</b> | 1.04/2A | 150 | 30 | 18 | 3.5 | 0.7    |
| 1499386 | <b>104/C-200-TE</b> | 1.04/3A | 200 | 36 | 28 | 6.5 | 2.9    |

## 1.04/ST

### PULLER SET on sales display

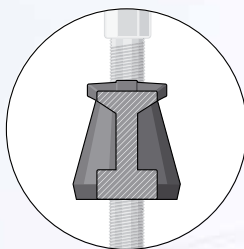
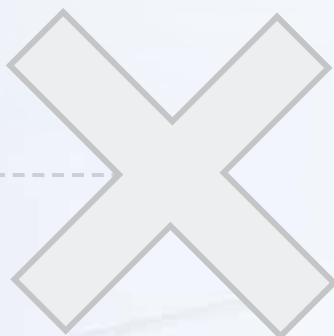
- Consisting of 3 each pullers and sales display



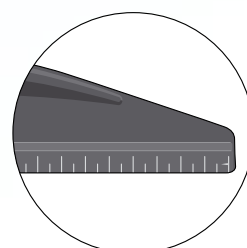
| Code    | No.                 | Part                                | Weight |
|---------|---------------------|-------------------------------------|--------|
| 1675982 | <b>1.04/ST</b>      | 1.04/1A 1.04/2A 1.04/3A             | 15.2   |
| 2300044 | <b>1.04/ST-HP-B</b> | 1.04/HP1A-B 1.04/HP2A-B 1.04/HP3A-B | 15.2   |



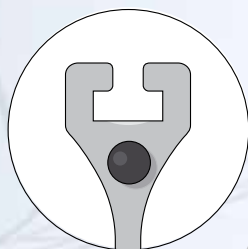
# 1.04 HIGH POWER - THE POWER PACK



Reinforced cross-beam - the additional arching at the top of the crossbar produces an H-profile which, in turn, raises the load capacity as against the flexural torque. In the HP version the cross-beam is additionally hardened and tempered. This brings about practically a doubling of the loading limit!



The permanently lasered scale makes it easier to symmetrically align the legs. This effectively stops any tilting when extracting caused by incorrectly positioned legs. A final marking specifies the maximum clamping spread.



The all-in steel legs are hot forged in one piece from 31CrV3 steel and hardened/tempered. They provide a positive-locking connection to the cross-beam. The leg brake secures the hooks from unintentional motions. Pressing the release button unlatches the locking - the leg can be moved on the cross-beam. Releasing the button causes the leg to jam tight on the cross-beam with slipping ruled out.



## SAFETY-RELEVANT

Forces amounting to several tons in weight act on the puller during the extracting operation! Drop-forged components "announce" possible overloading by bending. This is due to the fibre course of the material during forging permitting a certain flexibility of the components ahead of fracturing - an extremely "healthy" property, in fact!



## HYDRAULIC SPINDLES

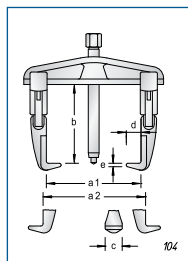
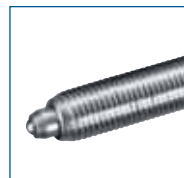
- Hydraulic spindles simplify the work - less force and time needed for a pulling operation
- The hydraulic spindle principle is both straightforward and ingenious at the same time. The effect of screwing in the clamping bolt is to compress the grease inside the hydraulic piston - the extending piston acts on the part to be extracted with a force many times greater than that manually applied at the top.
- This controlled operation provides for working safely with the hydraulic spindle and is recommended, in particular, for high levels of force.
- In the 1.04 series a hydraulic spindle can be used upwards of puller size 2A. The precise operation is gone into on Page 378.



## 1.04/HP

### UNIVERSAL PULLER HIGH POWER 2-arm pattern

- Cross-beam especially hardened and tempered allows safe application of extremely high pulling forces and doubles the tensile force capability
- By reversing the legs, this tool can be used as an internal or external puller
- Scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- Integral legs, with quick-release
- Spindle with replaceable ball and tip
- Spindle thermo-chemically hardened
- Upgradeable with hydraulic spindle (see table)

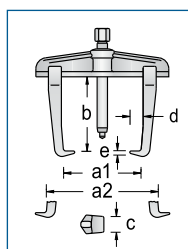
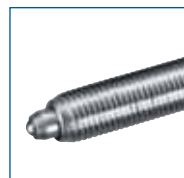


| Code    | No.              | a <sub>1</sub> | a <sub>2 min</sub> | a <sub>2 max</sub> | b   | Scale          | Spindle   | mm | c  | d  | e   | max. t | Material | Weight |
|---------|------------------|----------------|--------------------|--------------------|-----|----------------|-----------|----|----|----|-----|--------|----------|--------|
| 1868152 | <b>1.04/HP1A</b> | 130            | 70                 | 170                | 100 | M 14x1,5 x 140 |           | 17 | 22 | 12 | 3.0 | 5.0    | x        | 1.2    |
| 1868160 | <b>1.04/HP2A</b> | 200            | 110                | 260                | 150 | G 1/2 x 210    | 1.06/HSP1 | 22 | 30 | 18 | 3.5 | 10.0   | x        | 3.4    |
| 1868179 | <b>1.04/HP3A</b> | 350            | 150                | 420                | 200 | G 3/4 x 280    | 1.06/HSP2 | 27 | 36 | 28 | 6.5 | 15.0   | x        | 7.7    |

## 1.04/HP-B

### UNIVERSAL PULLER HIGH POWER 2-arm pattern, rigid legs with leg brake

- Cross-beam especially hardened and tempered allows safe application of extremely high pulling forces and doubles the tensile force capability
- 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
- Two versions: with mechanical or hydraulic spindle

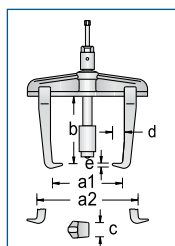


| Code    | No.                | a <sub>1</sub> | a <sub>2 min</sub> | a <sub>2 max</sub> | b   | Scale          | Spindle   | mm | c  | d  | e   | max. t | Material | Weight |
|---------|--------------------|----------------|--------------------|--------------------|-----|----------------|-----------|----|----|----|-----|--------|----------|--------|
| 1981145 | <b>1.04/HP1A-B</b> | 130            | 70                 | 170                | 100 | M 14x1,5 x 140 |           | 17 | 22 | 15 | 3.0 | 5.0    | x        | 1.2    |
| 1981153 | <b>1.04/HP2A-B</b> | 200            | 110                | 260                | 150 | G 1/2 x 210    | 1.06/HSP1 | 22 | 30 | 24 | 3.5 | 10.0   | x        | 3.4    |
| 1981161 | <b>1.04/HP3A-B</b> | 350            | 150                | 420                | 200 | G 3/4 x 280    | 1.06/HSP2 | 27 | 36 | 32 | 5.0 | 15.0   | x        | 7.7    |

## 1.04/HP-B-HSP

### UNIVERSAL PULLER HIGH POWER hydraulic, 2-arm pattern, solid steel legs with leg brake

- Cross-beam especially hardened and tempered allows safe application of extremely high pulling forces and doubles the tensile force capability
- Rigid legs forged from one piece
- Leg brake - prevents unintentional leg slipping. The leg can be slid along the cross-beam at the push of a button
- By reversing the legs, this tool can be used as an internal or external puller
- Scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- With the hydraulic spindle, a controlled and safe pulling action is possible at all times

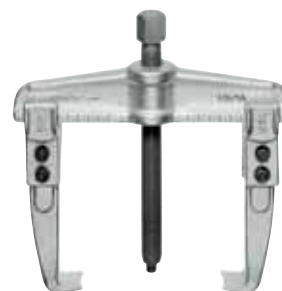
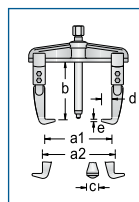


| Code    | No.                     | a <sub>1</sub> | a <sub>2 min</sub> | a <sub>2 max</sub> | b   |  | c  | d  | e   | max. t | max. N.m |  |  |
|---------|-------------------------|----------------|--------------------|--------------------|-----|--------------------------------------------------------------------------------------|----|----|-----|--------|----------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 2016206 | <b>1.04/HP2A-B-HSP1</b> | 200            | 110                | 260                | 150 | 1.06/HSP1                                                                            | 30 | 24 | 3.5 | 10.0   | 17       | x                                                                                     |                                                                                       |
| 2300036 | <b>1.04/HP3A-B-HSP2</b> | 350            | 150                | 420                | 200 | 1.06/HSP2                                                                            | 36 | 32 | 5.0 | 12.0   | 19       | x                                                                                     |                                                                                       |

## 1.06

### UNIVERSAL PULLER 2-arm pattern

- The tried and tested model for the safe and quick removal of pulleys, wheels, ball bearings, etc.
- Strong drop forged design
- Scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- By reversing the legs, this tool can be used as an internal or external puller
- Extra or replacement legs increase versatility
- Upgradeable with hydraulic spindle (see table)

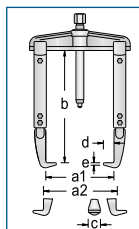


| Code    | No.            | a <sub>1</sub> | a <sub>2 min</sub> | a <sub>2 max</sub> | b   |  |  |  | c  | d  | e   | max. t |  |  |
|---------|----------------|----------------|--------------------|--------------------|-----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|----|-----|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 8000230 | <b>1.06/1</b>  | 90             | 60                 | 140                | 100 | M 14x1,5 x 140                                                                    |                                                                                   | 17                                                                                | 22 | 12 | 3.0 | 3.0    | x                                                                                   | 1.1                                                                                 |
| 8000310 | <b>1.06/1A</b> | 130            | 70                 | 180                | 100 | M 14x1,5 x 140                                                                    |                                                                                   | 17                                                                                | 22 | 12 | 3.0 | 3.0    | x                                                                                   | 1.3                                                                                 |
| 8000580 | <b>1.06/2</b>  | 160            | 80                 | 220                | 150 | G 1/2 x 210                                                                       | 1.06/HSP1                                                                         | 22                                                                                | 30 | 18 | 3.5 | 5.0    | x                                                                                   | 3.0                                                                                 |
| 8000660 | <b>1.06/2A</b> | 200            | 90                 | 260                | 150 | G 1/2 x 210                                                                       | 1.06/HSP1                                                                         | 22                                                                                | 30 | 18 | 3.5 | 5.0    | x                                                                                   | 3.5                                                                                 |
| 8000740 | <b>1.06/3</b>  | 250            | 125                | 330                | 200 | G 3/4 x 280                                                                       | 1.06/HSP2                                                                         | 27                                                                                | 36 | 28 | 6.5 | 7.5    | x                                                                                   | 7.2                                                                                 |
| 8000820 | <b>1.06/3A</b> | 350            | 125                | 420                | 200 | G 3/4 x 280                                                                       | 1.06/HSP2                                                                         | 27                                                                                | 36 | 28 | 6.5 | 7.5    | x                                                                                   | 8.2                                                                                 |
| 8000900 | <b>1.06/4</b>  | 520            | 185                | 600                | 200 | G 1 x 310                                                                         | 1.06/HSP3                                                                         | 36                                                                                | 36 | 28 | 6.5 | 10.0   | -                                                                                   | 13.7                                                                                |

## 1.06

### UNIVERSAL PULLER 2-arm pattern, with extended legs

- Strong drop forged design
- Scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- Extended legs
- By reversing the legs, this tool can be used as an internal or external puller
- Extra or replacement legs increase versatility
- Upgradeable with hydraulic spindle (see table)

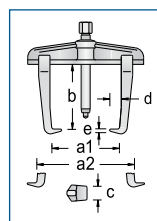


| Code    | No.              | a <sub>1</sub> | a <sub>2 min</sub> | a <sub>2 max</sub> | b   |                | mm        | c  | d  | e   | max. t | سلسله | تجهيز |      |
|---------|------------------|----------------|--------------------|--------------------|-----|----------------|-----------|----|----|-----|--------|-------|-------|------|
| 8108350 | <b>1.06/1-2</b>  | 90             | 60                 | 140                | 200 | M 14x1,5 x 140 | 17        | 22 | 12 | 3.0 | 3.0    | x     | 1.5   |      |
| 8108430 | <b>1.06/1A-2</b> | 130            | 70                 | 180                | 200 | M 14x1,5 x 140 | 17        | 22 | 12 | 3.0 | 3.0    | x     | 1.6   |      |
| 8108510 | <b>1.06/2-3</b>  | 160            | 80                 | 220                | 300 | G 1/2 x 210    | 1.06/HSP1 | 22 | 30 | 18  | 3.5    | 5.0   | x     | 4.1  |
| 8108780 | <b>1.06/2A-3</b> | 200            | 90                 | 260                | 300 | G 1/2 x 210    | 1.06/HSP1 | 22 | 30 | 18  | 3.5    | 5.0   | x     | 4.5  |
| 8001200 | <b>1.06/3-3</b>  | 250            | 125                | 330                | 300 | G 3/4 x 280    | 1.06/HSP2 | 27 | 36 | 28  | 6.5    | 7.5   | x     | 9.1  |
| 8108860 | <b>1.06/3A-3</b> | 350            | 125                | 420                | 300 | G 3/4 x 280    | 1.06/HSP2 | 27 | 36 | 28  | 6.5    | 7.5   | x     | 9.8  |
| 8108940 | <b>1.06/4-3</b>  | 520            | 185                | 600                | 300 | G 1 x 310      | 1.06/HSP3 | 36 | 36 | 28  | 6.5    | 10.0  | x     | 15.2 |
| 8109080 | <b>1.06/3-4</b>  | 250            | 125                | 330                | 400 | G 3/4 x 280    | 1.06/HSP2 | 27 | 36 | 28  | 6.5    | 7.5   | x     | 10.0 |
| 8109160 | <b>1.06/3A-4</b> | 350            | 125                | 420                | 400 | G 3/4 x 280    | 1.06/HSP2 | 27 | 36 | 28  | 6.5    | 7.5   | x     | 11.1 |
| 8109240 | <b>1.06/4-4</b>  | 520            | 185                | 600                | 400 | G 1 x 310      | 1.06/HSP3 | 36 | 36 | 28  | 6.5    | 10.0  | -     | 16.4 |
| 8109320 | <b>1.06/3-5</b>  | 250            | 125                | 330                | 500 | G 3/4 x 280    | 1.06/HSP2 | 27 | 36 | 28  | 6.5    | 7.5   | x     | 11.3 |
| 8112380 | <b>1.06/3A-5</b> | 350            | 125                | 420                | 500 | G 3/4 x 280    | 1.06/HSP2 | 27 | 36 | 28  | 6.5    | 7.5   | x     | 12.2 |
| 8112460 | <b>1.06/4-5</b>  | 520            | 185                | 600                | 500 | G 1 x 310      | 1.06/HSP3 | 36 | 36 | 28  | 6.5    | 10.0  | -     | 19.0 |

## 1.06/B

### UNIVERSAL PULLER 2-arm pattern, rigid legs with leg brake

- Strong drop forged design
- Rigid legs forged from one piece
- Leg brake - prevents unintentional leg slipping. The leg can be slid along the cross-beam at the push of a button
- Scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- By reversing the legs, this tool can be used as an internal or external puller
- Legs available in different lengths for special situations
- Upgradeable with hydraulic spindle (see table)



| Code    | No.               | a <sub>1</sub> | a <sub>2 min</sub> | a <sub>2 max</sub> | b   |  |  mm | c  | d  | e   | max. t | سلسله | تجهيز |      |
|---------|-------------------|----------------|--------------------|--------------------|-----|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----|----|-----|--------|-------|-------|------|
| 1956337 | <b>1.06/11-B</b>  | 100            | 50                 | 140                | 100 | M 14x1,5 x 140                                                                      |  17 | 22 | 15 | 3.0 | 3.0    | x     | 0.9   |      |
| 1956345 | <b>1.06/1A1-B</b> | 140            | 60                 | 180                | 100 | M 14x1,5 x 140                                                                      |  17 | 22 | 15 | 3.0 | 3.0    | x     | 1.3   |      |
| 1956353 | <b>1.06/21-B</b>  | 170            | 80                 | 220                | 150 | G 1/2 x 210                                                                         | 1.06/HSP1                                                                              | 22 | 30 | 24  | 3.5    | 5.0   | x     | 2.8  |
| 1956361 | <b>1.06/2A1-B</b> | 210            | 90                 | 260                | 150 | G 1/2 x 210                                                                         | 1.06/HSP1                                                                              | 22 | 30 | 24  | 3.5    | 5.0   | x     | 3.3  |
| 1956388 | <b>1.06/31-B</b>  | 250            | 125                | 340                | 200 | G 3/4 x 280                                                                         | 1.06/HSP2                                                                              | 27 | 36 | 32  | 5.0    | 7.5   | x     | 6.7  |
| 1956396 | <b>1.06/3A1-B</b> | 340            | 125                | 430                | 200 | G 3/4 x 280                                                                         | 1.06/HSP2                                                                              | 27 | 36 | 32  | 5.0    | 7.5   | x     | 7.5  |
| 1958399 | <b>1.06/41-B</b>  | 520            | 185                | 610                | 200 | G 1 x 310                                                                           | 1.06/HSP3                                                                              | 36 | 36 | 32  | 5.0    | 10.0  | -     | 14.0 |

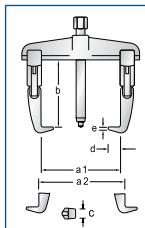




## 1.06/E

### QUICK-RELEASE PULLER 2-arm pattern

- The tried and tested model for the safe and quick removal of pulleys, wheels, ball bearings, etc.
- Strong drop forged pattern
- Scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- By reversing the legs, this tool can be used as an internal or external puller
- Exchangeable legs for several clamping reaches available as accessories
- Quick release legs for fast, easy set-up and adjustment
- Upgradeable with hydraulic spindle (see table)

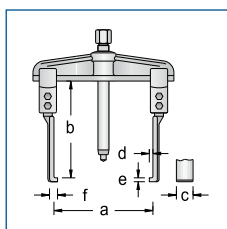
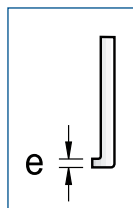


| Code    | No.              | a <sub>1</sub> | a <sub>2 min</sub> | a <sub>2 max</sub> | b   | Spindle        | Spindle   | mm | c  | d  | e   | max. t | Load | Weight |
|---------|------------------|----------------|--------------------|--------------------|-----|----------------|-----------|----|----|----|-----|--------|------|--------|
| 1213830 | <b>1.06/1-E</b>  | 90             | 60                 | 140                | 100 | M 14x1,5 x 140 |           | 17 | 22 | 12 | 3.0 | 3.0    | x    | 1.1    |
| 1215140 | <b>1.06/1A-E</b> | 130            | 70                 | 180                | 100 | M 14x1,5 x 140 |           | 17 | 22 | 12 | 3.0 | 3.0    | x    | 1.3    |
| 1216570 | <b>1.06/2-E</b>  | 160            | 80                 | 220                | 150 | G 1/2 x 210    | 1.06/HSP1 | 22 | 30 | 18 | 3.5 | 5.0    | x    | 3.0    |
| 1217720 | <b>1.06/2A-E</b> | 200            | 90                 | 260                | 150 | G 1/2 x 210    | 1.06/HSP1 | 22 | 30 | 18 | 3.5 | 5.0    | x    | 3.5    |
| 1218980 | <b>1.06/3-E</b>  | 250            | 125                | 330                | 200 | G 3/4 x 280    | 1.06/HSP2 | 27 | 36 | 28 | 6.5 | 7.5    | x    | 7.1    |
| 1220160 | <b>1.06/3A-E</b> | 350            | 125                | 420                | 200 | G 3/4 x 280    | 1.06/HSP2 | 27 | 36 | 28 | 6.5 | 7.5    | x    | 8.2    |

## 1.06/S-E

### QUICK-RELEASE PULLER 2-arm pattern, with slim legs

- The forged leg feet are very slim
- Particularly suitable for barely accessible places
- Scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- Quick release legs for fast, easy set-up and adjustment



| Code    | No.               | a   | b   | Spindle        | mm | c  | d   | e   | max. t | Load | Weight |
|---------|-------------------|-----|-----|----------------|----|----|-----|-----|--------|------|--------|
| 2015706 | <b>1.06/S1-E</b>  | 100 | 100 | M 14x1,5 x 140 | 17 | 27 | 7.5 | 3.7 | 2.0    | x    | 1.0    |
| 2015714 | <b>1.06/S1A-E</b> | 140 | 100 | M 14x1,5 x 140 | 17 | 27 | 7.5 | 3.7 | 2.5    | x    | 1.1    |
| 2015722 | <b>1.06/S2-E</b>  | 160 | 150 | G 1/2 x 210    | 22 | 40 | 7.0 | 5.0 | 5.0    | x    | 2.9    |
| 2015730 | <b>1.06/S2A-E</b> | 200 | 150 | G 1/2 x 210    | 22 | 40 | 7.0 | 5.0 | 5.0    | x    | 3.2    |

## 5.10

Remember the safety cover!



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## SPINDLE / LEGS

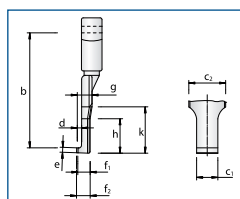
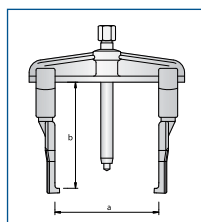


376  
378

## 1.06/XS-E

### QUICK-RELEASE PULLER 2-arm pattern, with XS legs

- The forged leg feet are very slim
- Extra slim in width and depth
- Particularly suitable for barely accessible places
- Scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- Quick release legs for fast, easy set-up and adjustment

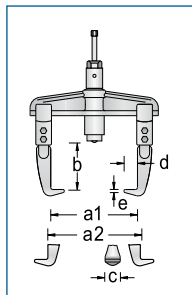


| Code    | No.                | a   | b   | Spindle        | mm | c <sub>1</sub> | c <sub>2</sub> | d   | e   | f <sub>1</sub> | f <sub>2</sub> | g    | h    | k    | max. t | Load | Weight |
|---------|--------------------|-----|-----|----------------|----|----------------|----------------|-----|-----|----------------|----------------|------|------|------|--------|------|--------|
| 2018659 | <b>1.06/XS1-E</b>  | 100 | 100 | M 14x1,5 x 140 | 17 | 16.0           | 25             | 5.0 | 3.7 | 9.6            | 10.5           | 11.0 | 26.0 | 35.0 | 2.0    | x    | 1.0    |
| 2018667 | <b>1.06/XS1A-E</b> | 140 | 100 | M 14x1,5 x 140 | 17 | 16.0           | 25             | 5.0 | 3.7 | 9.6            | 10.5           | 11.0 | 26.0 | 35.0 | 2.0    | x    | 1.1    |
| 2018675 | <b>1.06/XS2-E</b>  | 160 | 150 | G 1/2 x 210    | 22 | 17.5           | 32             | 5.5 | 3.5 | 11.0           | 11.5           | 13.5 | 25.5 | 38.5 | 3.5    | x    | 2.9    |
| 2018683 | <b>1.06/XS2A-E</b> | 200 | 150 | G 1/2 x 210    | 22 | 17.5           | 32             | 5.5 | 3.5 | 11.0           | 11.5           | 13.5 | 25.5 | 38.5 | 3.5    | x    | 3.2    |

## 1.06/HSP

### UNIVERSAL PULLER hydraulic, 2-arm pattern

- ✓ The tried and tested model for the safe and quick removal of pulleys, wheels, ball bearings, etc.
- ✓ Strong drop forged pattern
- ✓ Scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- ✓ By reversing the legs, this tool can be used as an internal or external puller
- ✓ With the hydraulic spindle, a controlled and safe pulling action is possible at all times

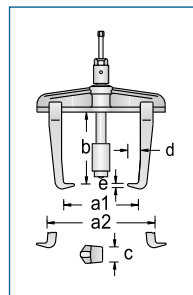


| Code    | No.                 | a <sub>1</sub> | a <sub>2</sub> | b   |           | c  | d  | e   | max. t | max. N·m |   |      |
|---------|---------------------|----------------|----------------|-----|-----------|----|----|-----|--------|----------|---|------|
| 8000150 | <b>1.06/2-HSP1</b>  | 160            | 220            | 75  | 1.06/HSP1 | 30 | 18 | 3.5 | 5.0    | 9        | x | 3.6  |
| 8002870 | <b>1.06/2A-HSP1</b> | 200            | 260            | 75  | 1.06/HSP1 | 30 | 18 | 3.5 | 5.0    | 9        | x | 4.0  |
| 8003170 | <b>1.06/3-HSP2</b>  | 250            | 330            | 125 | 1.06/HSP2 | 36 | 28 | 6.5 | 7.5    | 13       | x | 7.5  |
| 8003920 | <b>1.06/3A-HSP2</b> | 350            | 420            | 125 | 1.06/HSP2 | 36 | 28 | 6.5 | 7.5    | 13       | x | 8.8  |
| 8004060 | <b>1.06/4-HSP3</b>  | 520            | 600            | 90  | 1.06/HSP3 | 36 | 28 | 6.5 | 10.0   | 25       | - | 14.6 |

## 1.06/HSP-B

### UNIVERSAL PULLER hydraulic, 2-arm pattern, rigid legs with leg brake

- ✓ Strong drop forged pattern
- ✓ Scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- ✓ Rigid legs forged from one piece
- ✓ Leg brake - prevents unintentional leg slipping. The leg can be slid along the cross-beam at the push of a button
- ✓ By reversing the legs, this tool can be used as an internal or external puller
- ✓ With the hydraulic spindle, a controlled and safe pulling action is possible at all times

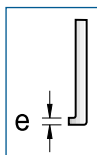
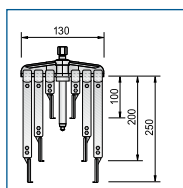
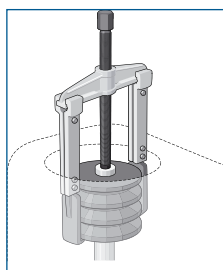


| Code    | No.                    | a <sub>1</sub> | a <sub>2</sub> | b   |           | c  | d  | e   | max. t | max. N·m |   |      |
|---------|------------------------|----------------|----------------|-----|-----------|----|----|-----|--------|----------|---|------|
| 1957899 | <b>1.06/21-B-HSP1</b>  | 170            | 220            | 75  | 1.06/HSP1 | 30 | 24 | 3.5 | 5.0    | 9        | x | 3.3  |
| 1957902 | <b>1.06/2A1-B-HSP1</b> | 210            | 260            | 75  | 1.06/HSP1 | 30 | 24 | 3.5 | 5.0    | 9        | x | 3.4  |
| 1957910 | <b>1.06/31-B-HSP2</b>  | 250            | 340            | 115 | 1.06/HSP2 | 36 | 32 | 5.0 | 7.5    | 13       | x | 7.2  |
| 1957929 | <b>1.06/3A1-B-HSP2</b> | 340            | 430            | 115 | 1.06/HSP2 | 36 | 32 | 5.0 | 7.5    | 13       | x | 8.3  |
| 1957937 | <b>1.06/41-B-HSP3</b>  | 520            | 610            | 80  | 1.06/HSP3 | 36 | 32 | 5.0 | 10.0   | 25       | - | 14.0 |

## 1.06/AS

### PULLER SET with 6 legs

- ✓ 2-arm puller, with 6 slim legs in 3 lengths
- ✓ Particularly suitable for barely accessible places

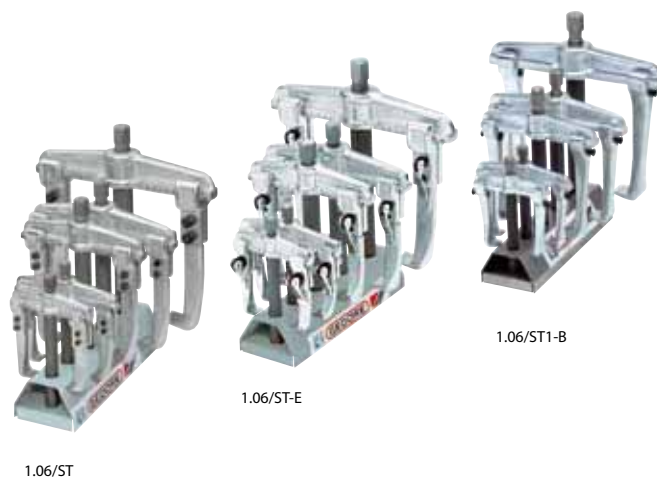


| Code    | No.              | a   | b               | e   |   |       |
|---------|------------------|-----|-----------------|-----|---|-------|
| 8001710 | <b>1.06/AS</b>   | 130 | 100 / 200 / 250 | 3.7 | x | 3.400 |
| 1675974 | <b>1.06/AS-2</b> | 200 | 150 / 220 / 300 | 5.0 | x | 8.060 |

## 1.06/ST

### PULLER SET on display stand

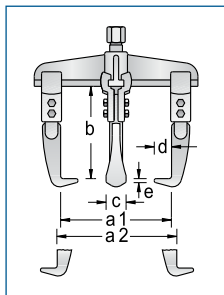
- ✓ Consisting of 5 pullers each in different sizes with standard or quick-release pulling legs



| Code    | No.               |           |            |           |            |           |      |
|---------|-------------------|-----------|------------|-----------|------------|-----------|------|
| 8111570 | <b>1.06/ST</b>    | 1.06/1    | 1.06/1A    | 1.06/2    | 1.06/2A    | 1.06/3    | 19.0 |
| 2004569 | <b>1.06/ST1-B</b> | 1.06/11-B | 1.06/1A1-B | 1.06/21-B | 1.06/2A1-B | 1.06/31-B | 17.2 |
| 1322745 | <b>1.06/ST-E</b>  | 1.06/1-E  | 1.06/1A-E  | 1.06/2-E  | 1.06/2A-E  | 1.06/3-E  | 19.2 |

**1.07****UNIVERSAL PULLER 3-arm pattern**

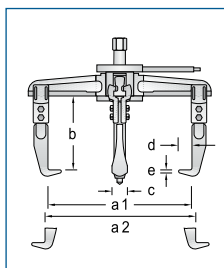
- Even load distribution over 3 legs ensures secure grip and balanced pull
- By reversing the legs, this tool can be used as an internal or external puller
- Legs available in different lengths for special situations
- Upgradeable with hydraulic spindle (see table)



| Code    | No.            | a <sub>1</sub> | a <sub>2 min</sub> | a <sub>2 max</sub> | b   | -----          | -----     | ● mm | c  | d  | e   | max. t | ↔   |
|---------|----------------|----------------|--------------------|--------------------|-----|----------------|-----------|------|----|----|-----|--------|-----|
| 8113940 | <b>1.07/1</b>  | 90             | 70                 | 140                | 100 | M 14x1,5 x 140 |           | 17   | 22 | 12 | 3.0 | 3.0    | 1.4 |
| 8114080 | <b>1.07/1A</b> | 130            | 80                 | 180                | 100 | M 14x1,5 x 140 |           | 17   | 22 | 12 | 3.0 | 3.0    | 1.6 |
| 8114160 | <b>1.07/2</b>  | 160            | 100                | 220                | 150 | G 1/2 x 210    | 1.06/HSP1 | 22   | 30 | 18 | 3.5 | 5.0    | 3.6 |
| 8114240 | <b>1.07/2A</b> | 200            | 100                | 260                | 150 | G 1/2 x 210    | 1.06/HSP1 | 22   | 30 | 18 | 3.5 | 5.0    | 4.2 |
| 1541757 | <b>1.07/3</b>  | 250            | 100                | 400                | 200 | G 3/4 x 280    | 1.06/HSP2 | 27   | 36 | 28 | 6.5 | 7.5    | 9.3 |

**1.07/4****UNIVERSAL PULLER 3-arm pattern**

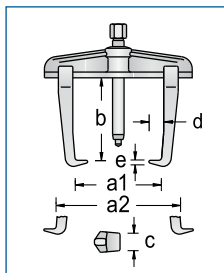
- Just like our standard model no. 1.06, this puller is designed for all branches of industry, but particularly for the construction of electric motors
- It is also suitable for removing heavy, multistage V-belt pulley wheels, flywheels, gear wheels, etc.
- Pins are used to lock the arms at 120 degrees to each other on the hub
- The clamping reach may be extended to 490 mm by using extensions no. 1.07/CV, 1.07/DV and 1.07/EV
- Upgradeable with hydraulic spindle (see table)
- This puller may also be used with the hydraulic aid 1.50 without requiring any reduction bushing
- Also available with further legs - please request



| Code    | No.              | a <sub>1</sub> | a <sub>2</sub> | b   | -----     | -----     | ● mm | c  | d  | e   | max. t | ↔    |
|---------|------------------|----------------|----------------|-----|-----------|-----------|------|----|----|-----|--------|------|
| 8002440 | <b>1.07/4</b>    | 450            | 530            | 200 | G 1 x 360 | 1.06/HSP3 | 36   | 36 | 28 | 6.5 | 10     | 18.8 |
| 1958003 | <b>1.07/4A</b>   | 580            | 640            | 200 | G 1 x 360 | 1.06/HSP3 | 36   | 36 | 28 | 6.5 | 10     | 22.0 |
| 1305085 | <b>1.07/4-3</b>  | 450            | 530            | 300 | G 1 x 360 | 1.06/HSP3 | 36   | 36 | 28 | 6.5 | 10     | 21.0 |
| 1305271 | <b>1.07/4-4</b>  | 450            | 530            | 400 | G 1 x 360 | 1.06/HSP3 | 36   | 36 | 28 | 6.5 | 10     | 22.6 |
| 1305425 | <b>1.07/4-5</b>  | 450            | 530            | 500 | G 1 x 360 | 1.06/HSP3 | 36   | 36 | 28 | 6.5 | 10     | 25.2 |
| 2302799 | <b>1.07/4A-3</b> | 580            | 640            | 300 | G 1 x 360 | 1.06/HSP3 | 36   | 36 | 28 | 6.5 | 10     | 24.2 |
| 2302802 | <b>1.07/4A-4</b> | 580            | 640            | 400 | G 1 x 360 | 1.06/HSP3 | 36   | 36 | 28 | 6.5 | 10     | 25.8 |
| 2302810 | <b>1.07/4A-5</b> | 580            | 640            | 500 | G 1 x 360 | 1.06/HSP3 | 36   | 36 | 28 | 6.5 | 10     | 28.4 |

**1.07/B****UNIVERSAL PULLER 3-arm pattern, rigid legs with leg brake**

- Even load distribution over 3 legs ensures secure grip and balanced pull
- Rigid legs forged from one piece
- Leg brake - prevents unintentional leg slipping. The leg can be slid along the cross-beam at the push of a button
- By reversing the legs, this tool can be used as an internal or external puller
- Legs available in different lengths for special situations
- Upgradeable with hydraulic spindle (see table)



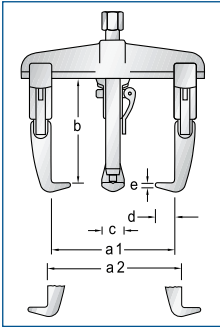
| Code    | No.               | a <sub>1</sub> | a <sub>2 min</sub> | a <sub>2 max</sub> | b   | -----          | -----     | ● mm | c  | d  | e   | max. t | ↔   |
|---------|-------------------|----------------|--------------------|--------------------|-----|----------------|-----------|------|----|----|-----|--------|-----|
| 1957945 | <b>1.07/11-B</b>  | 90             | 70                 | 140                | 100 | M 14x1,5 x 140 |           | 17   | 22 | 15 | 3.0 | 3.0    | 1.2 |
| 1957953 | <b>1.07/1A1-B</b> | 130            | 80                 | 180                | 100 | M 14x1,5 x 140 |           | 17   | 22 | 15 | 3.0 | 3.0    | 1.4 |
| 1957961 | <b>1.07/21-B</b>  | 160            | 100                | 220                | 150 | G 1/2 x 210    | 1.06/HSP1 | 22   | 30 | 24 | 3.5 | 5.0    | 3.5 |
| 1957988 | <b>1.07/2A1-B</b> | 200            | 100                | 260                | 150 | G 1/2 x 210    | 1.06/HSP1 | 22   | 30 | 24 | 3.5 | 5.0    | 3.7 |
| 1957996 | <b>1.07/31-B</b>  | 250            | 100                | 400                | 200 | G 3/4 x 280    | 1.06/HSP2 | 27   | 36 | 28 | 6.5 | 7.5    | 8.0 |



## 1.07/E

### QUICK-RELEASE PULLER 3-arm pattern

- Quick release legs for fast, easy set-up and adjustment
- By reversing the legs, this tool can be used as an internal or external puller
- Upgradeable with hydraulic spindle (see table)

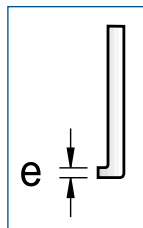
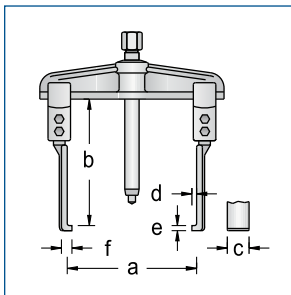


| Code    | No.              | a <sub>1</sub> | a <sub>2 min</sub> | a <sub>2 max</sub> | b   |                |           | mm | c  | d  | e   | max. t |     |
|---------|------------------|----------------|--------------------|--------------------|-----|----------------|-----------|----|----|----|-----|--------|-----|
| 1222902 | <b>1.07/1-E</b>  | 90             | 70                 | 140                | 100 | M 14x1,5 x 140 |           | 17 | 22 | 12 | 3.0 | 3.0    | 1.4 |
| 1225901 | <b>1.07/1A-E</b> | 130            | 80                 | 180                | 100 | M 14x1,5 x 140 |           | 17 | 22 | 12 | 3.0 | 3.0    | 1.6 |
| 1227335 | <b>1.07/2-E</b>  | 160            | 100                | 220                | 150 | G 1/2 x 210    | 1.06/HSP1 | 22 | 30 | 18 | 3.5 | 5.0    | 3.9 |
| 1227459 | <b>1.07/2A-E</b> | 200            | 100                | 260                | 150 | G 1/2 x 210    | 1.06/HSP1 | 22 | 30 | 18 | 3.5 | 5.0    | 4.0 |
| 1554751 | <b>1.07/3-E</b>  | 250            | 100                | 400                | 200 | G 3/4 x 280    | 1.06/HSP2 | 27 | 36 | 28 | 6.5 | 7.5    | 9.2 |

## 1.07/S-E

### QUICK-RELEASE PULLER 3-arm pattern, with slim legs

- The forged leg feet are very slim
- Particularly suitable for barely accessible places
- Quick release legs for fast, easy set-up and adjustment



| Code    | No.               | a   | b   |                | mm | c  | d   | e   | max. t |     |
|---------|-------------------|-----|-----|----------------|----|----|-----|-----|--------|-----|
| 2016036 | <b>1.07/S1-E</b>  | 90  | 100 | M 14x1,5 x 140 | 17 | 27 | 7.5 | 3.7 | 2.5    | 1.3 |
| 2016044 | <b>1.07/S1A-E</b> | 130 | 100 | M 14x1,5 x 140 | 17 | 27 | 7.5 | 3.7 | 2.5    | 1.4 |
| 2016052 | <b>1.07/S2-E</b>  | 160 | 150 | G 1/2 x 210    | 22 | 40 | 7.0 | 5.0 | 5.0    | 3.6 |
| 2016060 | <b>1.07/S2A-E</b> | 200 | 150 | G 1/2 x 210    | 22 | 40 | 7.0 | 5.0 | 5.0    | 3.9 |



### SPINDLE / LEGS



376  
-  
378



### 920 • 923



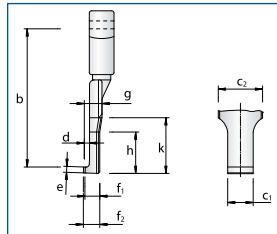
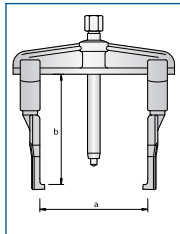
487



## 1.07/XS-E

### QUICK-RELEASE PULLER 3-arm pattern, with XS legs

- The forged leg feet are very slim
- Extra slim in width and depth
- Particularly suitable for barely accessible places, e.g. gear maintenance
- Quick release legs for fast, easy set-up and adjustment

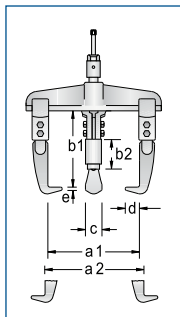


| Code    | No.                | a   | b   | Thread         | mm   | c <sub>1</sub> | c <sub>2</sub> | d   | e   | f <sub>1</sub> | f <sub>2</sub> | g    | h    | k    | max. t | Weight |
|---------|--------------------|-----|-----|----------------|------|----------------|----------------|-----|-----|----------------|----------------|------|------|------|--------|--------|
| 2018829 | <b>1.07/XS1-E</b>  | 90  | 100 | M 14x1,5 x 140 | 16.0 | 16.0           | 25             | 5.0 | 3.7 | 9.6            | 10.5           | 11.0 | 26.0 | 35.0 | 3.0    | 1.3    |
| 2018837 | <b>1.07/XS1A-E</b> | 130 | 100 | M 14x1,5 x 140 | 16.0 | 16.0           | 25             | 5.0 | 3.7 | 9.6            | 10.5           | 11.0 | 26.0 | 35.0 | 3.0    | 1.4    |
| 2018845 | <b>1.07/XS2-E</b>  | 160 | 150 | G 1/2 x 210    | 17.5 | 17.5           | 32             | 5.5 | 3.5 | 11.0           | 11.5           | 13.5 | 25.5 | 38.5 | 5.0    | 3.6    |
| 2018853 | <b>1.07/XS2A-E</b> | 200 | 150 | G 1/2 x 210    | 17.5 | 17.5           | 32             | 5.5 | 3.5 | 11.0           | 11.5           | 13.5 | 25.5 | 38.5 | 5.0    | 3.9    |

## 1.07/HSP

### UNIVERSAL PULLER hydraulic, 3-arm pattern

- The tried and tested model for the safe and quick removal of pulleys, wheels, ball bearings, etc.
- Drop forged pattern
- By reversing the legs, this tool may be used as an internal or external puller
- With the hydraulic spindle, a controlled and safe pulling action is possible at all times



| Code    | No.                   | a <sub>1</sub> | a <sub>2</sub> | b   | Thread    | c  | d  | e   | max. t | max. N·m | Weight |
|---------|-----------------------|----------------|----------------|-----|-----------|----|----|-----|--------|----------|--------|
| 8009960 | <b>1.07/2-HSP1</b>    | 160            | 220            | 75  | 1.06/HSP1 | 30 | 18 | 3.5 | 5.0    | 9        | 4.6    |
| 8010970 | <b>1.07/2A-HSP1</b>   | 200            | 260            | 75  | 1.06/HSP1 | 30 | 18 | 3.5 | 5.0    | 9        | 4.7    |
| 1554816 | <b>1.07/3-HSP2</b>    | 250            | 310            | 80  | 1.06/HSP2 | 36 | 28 | 6.5 | 7.5    | 13       | 9.6    |
| 8012400 | <b>1.07/4-HSP3</b>    | 450            | 530            | 140 | 1.06/HSP3 | 36 | 28 | 6.5 | 10.0   | 25       | 19.4   |
| 1962574 | <b>1.07/4A-HSP3</b>   | 580            | 640            | 140 | 1.06/HSP3 | 36 | 28 | 6.5 | 10.0   | 25       | 22.4   |
| 2303019 | <b>1.07/4-3-HSP3</b>  | 450            | 530            | 300 | 1.06/HSP3 | 36 | 28 | 6.5 | 10.0   | 25       | 21.6   |
| 2303027 | <b>1.07/4-4-HSP3</b>  | 450            | 530            | 400 | 1.06/HSP3 | 36 | 28 | 6.5 | 10.0   | 25       | 23.2   |
| 2303035 | <b>1.07/4-5-HSP3</b>  | 450            | 530            | 500 | 1.06/HSP3 | 36 | 28 | 6.5 | 10.0   | 25       | 25.8   |
| 2303043 | <b>1.07/4A-3-HSP3</b> | 580            | 640            | 300 | 1.06/HSP3 | 36 | 28 | 6.5 | 10.0   | 25       | 24.6   |
| 2303051 | <b>1.07/4A-4-HSP3</b> | 580            | 640            | 400 | 1.06/HSP3 | 36 | 28 | 6.5 | 10.0   | 25       | 26.2   |
| 2303078 | <b>1.07/4A-5-HSP3</b> | 580            | 640            | 500 | 1.06/HSP3 | 36 | 28 | 6.5 | 10.0   | 25       | 28.8   |



## 5.10

Remember the  
safety cover!

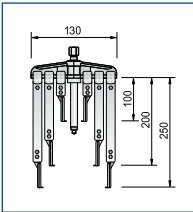
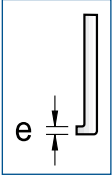


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### 1.07/AS

#### PULLER SET with 9 legs

- 3-arm puller, with 9 slim legs in 3 lengths
- Particularly suitable for barely accessible places

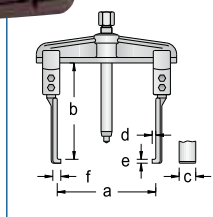
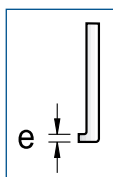


| Code    | No.              | 130 | 100 / 200 / 250 | e   | 4.8  |
|---------|------------------|-----|-----------------|-----|------|
| 8117260 | <b>1.07/AS</b>   |     |                 | 3.7 |      |
| 1675990 | <b>1.07/AS-2</b> | 200 | 150 / 220 / 300 | 5.0 | 11.5 |

### 1.07/K

#### PULLER SET with 9 legs

- In plastic case
- Contents: 1 spindle, 1 cross-beam each 2- and 3-arm pattern and 9 slim pulling legs in 3 lengths
- Second spindle in the set 1.07/K saves working time

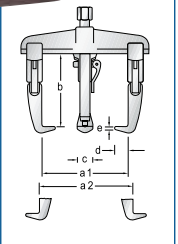
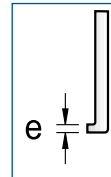


| Code    | No.             | a   | b               | mm             | mm | c  | d   | e   | max. t | 5.8  |
|---------|-----------------|-----|-----------------|----------------|----|----|-----|-----|--------|------|
| 8117340 | <b>1.07/K</b>   | 130 | 100 / 200 / 250 | M 14x1,5 x 140 | 17 | 27 | 7.5 | 3.7 | 2.5    |      |
| 1676008 | <b>1.07/K-2</b> | 200 | 150 / 220 / 300 | G 1/2 x 210    | 22 | 40 | 7.0 | 5.0 | 5.0    | 13.5 |

### 1.07/K-SE

#### PULLER SET with 3 legs

- In plastic case
- Contents: 1 spindle, 1 cross-beam each 2- and 3-arm pattern and 3 quick-release pulling legs
- Second spindle in the set 1.07/K-1-SE saves working time



| Code    | No.                | a <sub>1</sub> | b   | mm             | mm | c  | d   | e   | 5.5 |
|---------|--------------------|----------------|-----|----------------|----|----|-----|-----|-----|
| 1438484 | <b>1.07/K-1-SE</b> | 90             | 100 | M 14x1,5 x 140 | 17 | 27 | 7.5 | 3.7 | 2.2 |
| 1645455 | <b>1.07/K-2-SE</b> | 160            | 150 | G 1/2 x 210    | 22 | 40 | 7.0 | 5.0 | 5.5 |

## ➔ 1500 ES-1.07



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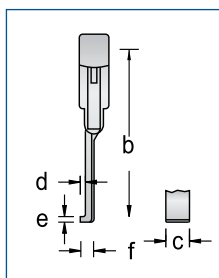
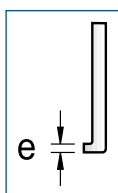




## 1.07/K-SE S

### PULLER SET with 6 legs

- In plastic case
- The forged leg feet are very slim particularly suitable for barely accessible places
- Quick release legs for fast, easy set-up and adjustment
- Contents: 2 spindles, 1 cross-beam each 2- and 3-arm pattern, and 6 slim quick-release pulling legs in 2 lengths
- Clamping reach 100 mm = thickness of hooked foot at tip (e) 3.7 mm
- Clamping reach 200 mm = thickness of hooked foot at tip (e) 2.0 mm

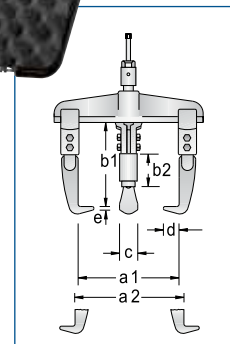


| Code    | No.                      | a  | b         | mm                | mm | c  | d   | e   |
|---------|--------------------------|----|-----------|-------------------|----|----|-----|-----|
| 1745158 | <b>1.07/K-1-SE 200 S</b> | 90 | 100 / 200 | M 14x1,5<br>x 140 | 17 | 27 | 7.5 | 4.2 |

## 1.07/K-HSP

### PULLER SET with 3 legs

- For internal and external use, for hard, everyday use, for industrial use, or on cars and trucks
- In plastic case
- Contents: 1 hydraulic spindle, 1 cross-beam each 2- and 3-arm pattern and 3 quick-release pulling legs



| Code    | No.                    | a <sub>1</sub> | a <sub>2</sub> | b  |  |  mm | c  | d  | e  | max. t | max. N-m |  |
|---------|------------------------|----------------|----------------|----|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|----|----|----|--------|----------|---------------------------------------------------------------------------------------|
| 1438492 | <b>1.07/K-2-E-HSP1</b> | 160            | 220            | 75 |                                                                                       | 1.06/<br>HSP1                                                                            | 32 | 30 | 18 | 3.5    | 5.0      | 9 7.3                                                                                 |

## 1.07/K-B

### PULLER SET with 3 legs, with leg brake

- In plastic case
- Contents: 2 spindles, 1 cross-beam each 2- and 3-arm pattern and 3 rigid legs with leg brake
- Prevents unintentional leg slipping. The leg can be slid along the cross-beam at the push of a button
- By reversing the legs, this tool can be used as an internal or external puller
- Extra spindle supplied for convenience



| Code    | No.                | a   | b   | mm                | mm | c  | d  | e   |
|---------|--------------------|-----|-----|-------------------|----|----|----|-----|
| 2224097 | <b>1.07/K-1A-B</b> | 140 | 100 | M 14x1,5<br>x 140 | 17 | 22 | 15 | 3.0 |



**5.10**

**Remember the safety cover!**



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# 106/XX-YY-ZZ

xx = Leg size (A-C)  
yy = Leg length (in mm)  
zz = Leg type

## Leg type:

for 3-arm puller

1.06/1 1.06/1A

for 2-arm puller

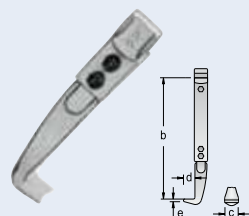
1.07/1 1.07/1A

Mechanical replacement spindle

1.1406140

Hydraulic replacement spindle

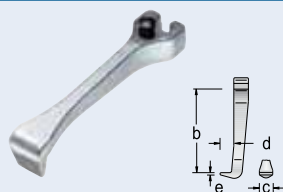
# A



### -N = The proven leg

1 leg incl. clamping parts with tried-and-tested screw connection in various lengths

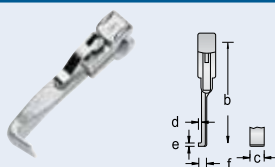
| Code    | No.                | b   | c  | d  | e   | ⚙️  |
|---------|--------------------|-----|----|----|-----|-----|
| 1120514 | <b>106/A-100-N</b> | 100 | 22 | 12 | 3.0 | 0.6 |
| 1120522 | <b>106/A-200-N</b> | 200 | 22 | 12 | 3.0 |     |



### -B = The sturdy leg

1 leg with leg brake, secured against unintentional slipping, movement of the hook on the cross-beam at the touch of a button, forged from one piece

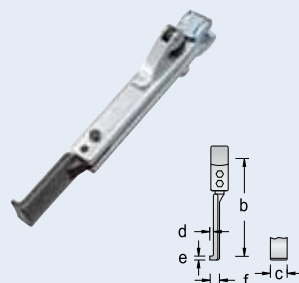
| Code    | No.                | b   | c  | d  | e   | ⚙️ |
|---------|--------------------|-----|----|----|-----|----|
| 1970534 | <b>106/A-100-B</b> | 100 | 22 | 15 | 3.0 |    |



### -E = The quick use leg

1 leg incl. clamping parts with quick-release adjustment, for fast and uncomplicated setting and adjustment of the legs on the cross-beam

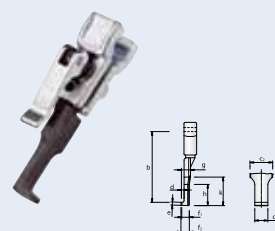
| Code    | No.                | b   | c  | d  | e   | ⚙️  |
|---------|--------------------|-----|----|----|-----|-----|
| 1178199 | <b>106/A-100-E</b> | 100 | 22 | 12 | 3.0 | 0.3 |



### -SE = The slender leg

1 slim hook incl. clamping parts with quick-release adjustment, for fast and uncomplicated setting and adjustment of the legs on the cross-beam

| Code    | No.                  | b   | c  | d   | e   | ⚙️  |
|---------|----------------------|-----|----|-----|-----|-----|
| 1438514 | <b>106/A-100-SE</b>  | 100 | 27 | 7.5 | 3.7 | 0.6 |
| 2015757 | <b>106/A-200-SE</b>  | 200 | 27 | 7.5 | 3.7 |     |
| 2015773 | <b>106/A-250-SE</b>  | 250 | 27 | 7.5 | 3.7 |     |
| 2015781 | <b>106/A-100-SSE</b> | 100 | 27 | 7.5 | 2.0 |     |
| 2015811 | <b>106/A-200-SSE</b> | 200 | 27 | 7.5 | 2.0 |     |
| 2015846 | <b>106/A-250-SSE</b> | 250 | 27 | 7.5 | 2.0 |     |



### -XSE = The sophisticated leg

As "The slender one" type but more slender in both width and depth for particularly cramped spaces and those places which can hardly be accessed e.g. in respect of gearbox maintenance

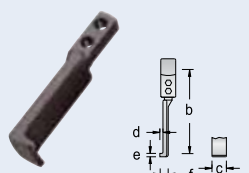
| Code    | No.                  | c <sub>1</sub> | c <sub>2</sub> | d   | e   | ⚙️ |
|---------|----------------------|----------------|----------------|-----|-----|----|
| 2018748 | <b>106/A-100-XSE</b> | 16.0           | 25             | 5.0 | 3.7 |    |
| 2149222 | <b>106/A-200-XSE</b> | 16.0           | 25             | 5.0 | 3.7 |    |
| 2150255 | <b>106/A-250-XSE</b> | 16.0           | 25             | 5.0 | 3.7 |    |



### -V = The flexi leg

The extension is inserted between cross-beam and leg and there is no limit on extending the clamping reach, forged from one piece.

| Code    | No.                | b   | ⚙️  |
|---------|--------------------|-----|-----|
| 1149016 | <b>106/A-100-V</b> | 100 | 0.4 |



### The slim fit leg

1 slim leg for use in confined spaces

\* Spare leg for "The slim one"

\*\* Spare leg for "The filigree one"

| Code    | No.                | c  | d   | e   | f    | ⚙️  |
|---------|--------------------|----|-----|-----|------|-----|
| 1076957 | <b>106/S101*</b>   | 27 | 7.5 | 3.7 | 14.5 | 450 |
| 1495607 | <b>106/S101-S*</b> | 27 | 7.5 | 2.0 | 14.5 | 110 |

| Code    | No.                | c <sub>1</sub> | c <sub>2</sub> | d   | e   | ⚙️ |
|---------|--------------------|----------------|----------------|-----|-----|----|
| 2013681 | <b>106/XS101**</b> | 16.0           | 25             | 5.0 | 3.7 |    |



# B

# C

1.06/2      1.06/2A

1.07/2      1.07/2A

1.2106210

1.06/HSP1

1.06/3      1.06/3A      1.06/4

1.07/3      1.07/4      1.07/4A

1.2606280

1.06/HSP2

1.3306310

1.06/HSP3

| Code    | No.                | b   | c  | d  | e   |     |
|---------|--------------------|-----|----|----|-----|-----|
| 1120530 | <b>106/B-150-N</b> | 150 | 30 | 18 | 3.5 | 0.7 |
| 1123947 | <b>106/B-300-N</b> | 300 | 30 | 18 | 3.5 | 1.3 |

| Code    | No.                | b   | c  | d  | e   |     |
|---------|--------------------|-----|----|----|-----|-----|
| 1120549 | <b>106/C-200-N</b> | 200 | 36 | 28 | 6.5 | 1.7 |
| 1120557 | <b>106/C-300-N</b> | 300 | 36 | 28 | 6.5 |     |
| 1120565 | <b>106/C-400-N</b> | 400 | 36 | 28 | 6.5 |     |
| 1120573 | <b>106/C-500-N</b> | 500 | 36 | 28 | 6.5 |     |

| Code    | No.                | b   | c  | d  | e   |     |
|---------|--------------------|-----|----|----|-----|-----|
| 1970542 | <b>106/B-150-B</b> | 150 | 30 | 24 | 3.5 | 0.7 |

| Code    | No.                | b   | c  | d  | e   |  |
|---------|--------------------|-----|----|----|-----|--|
| 1970550 | <b>106/C-200-B</b> | 200 | 36 | 32 | 5.0 |  |

| Code    | No.                | b   | c  | d  | e   |     |
|---------|--------------------|-----|----|----|-----|-----|
| 1178253 | <b>106/B-150-E</b> | 150 | 22 | 12 | 3.0 | 0.3 |

| Code    | No.                | b   | c  | d  | e   |     |
|---------|--------------------|-----|----|----|-----|-----|
| 1178350 | <b>106/C-200-E</b> | 200 | 36 | 28 | 6.5 | 0.4 |

| Code    | No.                 | b   | c  | d   | e   |     |
|---------|---------------------|-----|----|-----|-----|-----|
| 1671499 | <b>106/B-150-SE</b> | 150 | 40 | 7.0 | 5.0 | 0.7 |
| 2015862 | <b>106/B-220-SE</b> | 220 | 40 | 7.0 | 5.0 |     |
| 2015870 | <b>106/B-300-SE</b> | 300 | 40 | 7.0 | 5.0 |     |

| Code    | No.                  | c <sub>1</sub> | c <sub>2</sub> | d   | e   |  |
|---------|----------------------|----------------|----------------|-----|-----|--|
| 2018756 | <b>106/B-150-XSE</b> | 17.5           | 32             | 5.5 | 3.5 |  |
| 2149230 | <b>106/B-220-XSE</b> | 17.5           | 32             | 5.5 | 3.5 |  |
| 2150263 | <b>106/B-300-XSE</b> | 17.5           | 32             | 5.5 | 3.5 |  |

| Code    | No.                | b   |     |
|---------|--------------------|-----|-----|
| 1149024 | <b>106/B-150-V</b> | 150 | 0.8 |

| Code    | No.                | b   |     |
|---------|--------------------|-----|-----|
| 1149032 | <b>106/C-200-V</b> | 200 | 1.3 |

| Code    | No.              | c  | d   | e   | f    |  |
|---------|------------------|----|-----|-----|------|--|
| 1671898 | <b>108/S201*</b> | 40 | 7.0 | 5.0 | 15.5 |  |

| Code    | No.                | c <sub>1</sub> | c <sub>2</sub> | d   | e   |  |
|---------|--------------------|----------------|----------------|-----|-----|--|
| 2013711 | <b>108/XS201**</b> | 17.5           | 32             | 5.5 | 3.5 |  |



## SPINDLE SUMMARY

### SPINDLE SUMMARY

- KS = ball tip, exchangeable



| Code    | No.                | Size/Drive | Threads   | usable length |
|---------|--------------------|------------|-----------|---------------|
| 1084739 | <b>129.106</b>     | 14         | M 10x1,5  | 160           |
| 1084445 | <b>1.1206110</b>   | 14         | M 12x1,5  | 110           |
| 1084747 | <b>129.206</b>     | 14         | M 12x1,75 | 195           |
| 1084453 | <b>1.1406050</b>   | 17         | M 14x1,5  | 50            |
| 1084461 | <b>1.1406125</b>   | 17         | M 14x1,5  | 125           |
| 1084488 | <b>1.1406140</b>   | 17         | M 14x1,5  | 140           |
| 1546821 | <b>1.1406140KS</b> | 17         | M 14x1,5  | 140           |
| 1084798 | <b>144.15006</b>   | 17         | M 14x1,5  | 150           |
| 1084518 | <b>1.1406155</b>   | 17         | M 14x1,5  | 155           |
| 1576224 | <b>1.1406200</b>   | 17         | M 14x1,5  | 200           |
| 1084755 | <b>129.306</b>     | 17         | M 14x2,0  | 210           |
| 1084526 | <b>1.1806080</b>   | 19         | M 18x1,5  | 80            |
| 1084542 | <b>1.1806130</b>   | 19         | M 18x1,5  | 130           |
| 1084550 | <b>1.1806170</b>   | 19         | M 18x1,5  | 170           |
| 1084569 | <b>1.1806200</b>   | 19         | M 18x1,5  | 200           |
| 1084763 | <b>129.406</b>     | 19         | M 18x2,5  | 230           |
| 1084577 | <b>1.2106110</b>   | 22         | G 1/2"    | 110           |
| 1084585 | <b>1.2106160</b>   | 22         | G 1/2"    | 160           |
| 1084623 | <b>1.2106175</b>   | 22         | G 1/2"    | 175           |
| 1084593 | <b>1.2106210</b>   | 22         | G 1/2"    | 210           |
| 1546872 | <b>1.2106210KS</b> | 22         | G 1/2"    | 210           |
| 1084631 | <b>1.2106250</b>   | 22         | G 1/2"    | 250           |
| 1084658 | <b>1.2106350</b>   | 22         | G 1/2"    | 350           |
| 1084771 | <b>129.506</b>     | 22         | M 20x2,5  | 235           |
| 1084666 | <b>1.2606180</b>   | 27         | G 3/4"    | 200           |
| 1084674 | <b>1.2606280</b>   | 27         | G 3/4"    | 280           |
| 1546910 | <b>1.2606280KS</b> | 27         | G 3/4"    | 280           |
| 1084690 | <b>1.3306310</b>   | 36         | G 1"      | 310           |
| 1084704 | <b>1.3306360</b>   | 36         | G 1"      | 360           |
| 1084712 | <b>1.3306500</b>   | 36         | G 1"      | 500           |
| 1084720 | <b>1.4206270</b>   | 41         | G 1.1/4"  | 270           |

### 1.06/HSP

#### HYDRAULIC PRESSURE SPINDLE

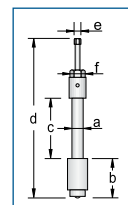
- For controlled and safe pulling work
- Set up for a pressure of 10 t, 12 t or 15 t

#### Preparation for use:

- Before using, check whether the pressure spindle is screwed far enough out of the cap, so that the pressure pad is in the initial position in the hydraulic cylinder.
- Unscrew the cap from the spindle body. For this purpose, first slacken off the grub screw.
- Screw the spindle body from beneath into the cross piece of the puller until the body protrudes approx. 60 mm from the cross piece.
- Screw the cap onto the spindle body until the stop, and then fix it in position by turning in the grub screw.

#### Use and operation: e.g. HSP3

- Place the puller into position and pre-tension the spindle body using a size 41 mm wrench.
- Screw the pressure spindle size 17 mm into the cap. The hydraulic effect will come into use. The stroke of the pressure pad in the hydraulic cylinder is max. 12 mm. The workpiece that has been loosened by the hydraulic force may be pulled off completely by turning the spindle body with the cap size 41 mm.
- Following its use, the pressure spindle (size 17 mm) is turned back into its initial position and the pressure pad pushed into the hydraulic cylinder.



| Code    | No.              | a    | b   | c   | d   | e  | f  | Stroke | max. t | max. N·m | ISO |
|---------|------------------|------|-----|-----|-----|----|----|--------|--------|----------|-----|
| 8116100 | <b>1.06/HSP1</b> | 1/2" | 80  | 135 | 350 | 12 | 32 | 12     | 10     | 17       | 1.1 |
| 8116290 | <b>1.06/HSP2</b> | 3/4" | 80  | 205 | 420 | 12 | 36 | 12     | 12     | 19       | 1.8 |
| 8116370 | <b>1.06/HSP3</b> | 1"   | 125 | 165 | 465 | 17 | 41 | 12     | 15     | 33       | 3.3 |

### 1.55

#### HYDRAULIC PRESS

- This piece of auxiliary equipment considerably increases the capability of the standard pressure spindle
- Operation: With pressure released, the press is placed between the pressure spindle and the end of the shaft. The pressure spindle is then tightened firmly. Care must be taken that the centreline of the shaft, the hydraulic press, and the pressure spindle are exactly in alignment. Then the hydraulic spindle is screwed inwards. Important note: Release the hydraulic press after use



| Code    | No.           | Stroke height | Installation height | max. t | ISO |
|---------|---------------|---------------|---------------------|--------|-----|
| 8024090 | <b>1.55/1</b> | 10            | 75                  | 8      | 1.0 |
| 8024170 | <b>1.55/2</b> | 15            | 90                  | 15     | 1.8 |



### Spindles - Mechanical spindle, hydraulic spindle or hydraulic press?

- The GEDORE puller mechanical spindles provide plenty of benefits: made of hardened and tempered steel, rolled fine thread and thermo-chemically treated - hence they are especially both wear and corrosion resistant.
- Particularly with high forces, using a hydraulic spindle can be both time and effort-saving. The hydraulic spindle principle is both straightforward and ingenious at the same time. The effect of screwing in the clamping bolt is to compress the grease inside the hydraulic piston - the extending piston acts on the part to be extracted with a force many times greater than that manually applied at the top. This controlled operation provides for working safely with the hydraulic spindle and is recommended, in particular, for high levels of force.
- The hydraulic press represents an alternative to the hydraulic spindle. It is attached between the mechanical spindle and shaft and through hydraulic force supports the spindle.
- As the puller cannot be rotated during extraction, pulling with the assistance of hydraulic aids saves both on time and the effort needed.



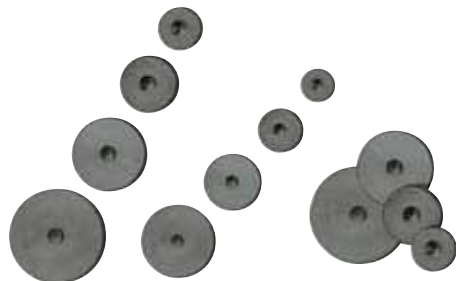
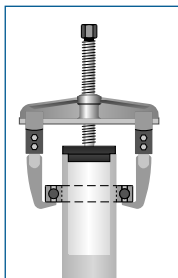


## SPINDLE PRESSURE PADS

**1.80**

### SPINDLE PRESSURE PADS for axle bores (hollow shafts)

- For the removal of bearings and gear wheels that are mounted on hollow shafts or in housings
- The spindle pressure pad serves as a counter-axis to the puller, where the spindle now transfers the force to the pressure pad



| Code    | No.           | Plate Ø  | Holder Ø |       |
|---------|---------------|----------|----------|-------|
| 1120697 | <b>1.80/1</b> | 25 28 32 | 19 22 25 | 2.300 |
|         |               | 35 41 44 | 28 32 35 |       |
|         |               | 48 50 54 | 38 41 44 |       |
|         |               | 60 64    | 48 50    |       |
| 1120700 | <b>1.80/2</b> | 67 70 73 | 54 57 60 | 2.400 |
|         |               | 78 83 90 | 64 70 76 |       |
| 1120719 | <b>1.80/3</b> | 41 44 48 | 32 35 38 | 4.300 |
|         |               | 50 54 60 | 41 44 48 |       |
|         |               | 64 67 70 | 50 54 57 |       |
|         |               | 73 78 83 | 60 64 70 |       |
|         |               | 90       | 76       |       |

## BEARING ASSEMBLY

**1.85/1**

### PROFESSIONAL PLASTIC BEARING INSTALLATION SET

- The impact-resistant plastic is handily light, but just as robust as the metal variants
- Using this bearing installation set more than 200 types of bearings may be re-installed effortlessly and without damage

#### Set comprises:

- 33 impact rings
- 3 aluminium impact sleeves, 10-50 mm for external Ø 26-110 mm
- 1 recoil-free bodywork hammer with nylon heads
- In a strong plastic case, dimensions 450 x 360 x 140 mm



| Code    | No.           |     |
|---------|---------------|-----|
| 1120778 | <b>1.85/1</b> | 5.2 |

## SAFETY COVER

**5.10**

### SAFETY COVER SIZE 1

- At pulling forces of 18 t, these PVC safety covers provide maximum active-safety protection from suddenly detaching ball bearings, driving pinions or small parts. The safety covers are extremely flexible, making them suitable for all situations.
- Dimensions 510 x 915 mm
- Double-ply welded = double safety (total thickness at 0.5 mm = 1.0 mm)
- Tear strength: longitudinal 23 N/mm<sup>2</sup> - lateral 21 N/mm<sup>2</sup>
- Two straps for variable adjustment
- Press stud fasteners for added safety - no flapping ends
- UV resistant
- Temperature resistant at -25°C to +50°C
- Storage in the supplied carry bag guarantees long service life



| Code    | No.         |     |
|---------|-------------|-----|
| 1868195 | <b>5.10</b> | 1.5 |


**136 K**

### CHAIN GRIP WRENCH

- Particularly suited for clamping geometrically problematical cross-sections
- With No. 136 K-105 the legs of various pullers - following locking - can be spanned with the chain at the component to be extracted and tightened. This stops the legs bending outwards and slipping. Pulling is still possible even if the legs have a very restricted contact surface



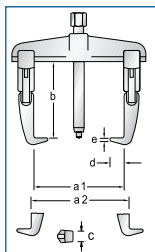
| Code    | No.              | ± mm |
|---------|------------------|------|
| 2307227 | <b>136 K-105</b> | 1050 |



## 1.08

### UNIVERSAL PULLER 2-arm pattern, with fast spindle adjustment

- Twice as fast and twice as simple
- With the fast spindle adjustment feature, the spindle can be set the desired range in a moment. When the clamping yoke is released, the 4-part internal thread closes, and takes the full working pressure



| Code    | No.            | a <sub>1</sub> | a <sub>2 min</sub> | a <sub>2 max</sub> | b   | mm             | mm | c  | d  | e   | max. t | mm   |
|---------|----------------|----------------|--------------------|--------------------|-----|----------------|----|----|----|-----|--------|------|
| 8019090 | <b>1.08/1A</b> | 130            | 80                 | 180                | 100 | M 14x1,5 x 140 | 17 | 22 | 12 | 3.0 | 3.0    | 1.5  |
| 8000070 | <b>1.08/2A</b> | 200            | 110                | 260                | 150 | G 1/2 x 210    | 22 | 30 | 18 | 3.5 | 5.0    | 4.1  |
| 8018950 | <b>1.08/3A</b> | 350            | 130                | 420                | 200 | G 3/4 x 280    | 27 | 36 | 28 | 6.5 | 7.5    | 10.2 |

## 3-ARM EXTERNAL PULLER TWIST + PULL

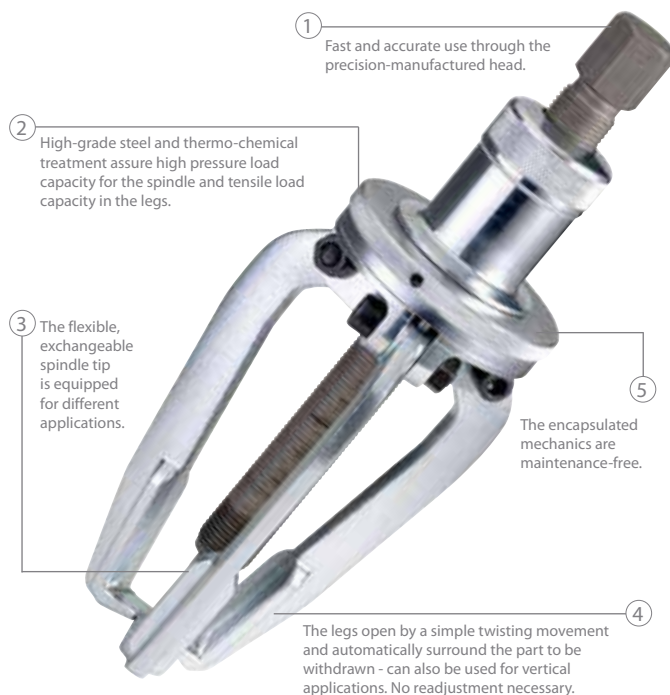
### 1.09 PULLER TWIST & PULL EASY, QUICK AND SAFE

#### Working principle



#### Advantages:

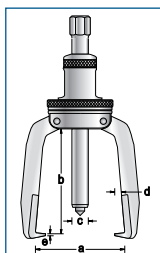
- No setting-up or readjusting of the legs
- Maintenance-free due to encapsulated mechanics



## 1.09

### PULLER TWIST+PULL 3-arm pattern, with rotating adjustment

- The precise manufactured head allows fast and exact use
- The legs open by simple rotation and enclose automatically the part to be removed
- No more time-consuming set-up and readjusting of the legs
- High-quality steel and thermo-chemical treatment guarantee highest toughness of the spindle and the legs
- Ball or tip can easily be exchanged



| Code    | No.           | a <sub>min</sub> | a <sub>max</sub> | b   | mm          | mm | c  | d  | e   | max. t | mm  |
|---------|---------------|------------------|------------------|-----|-------------|----|----|----|-----|--------|-----|
| 1748173 | <b>1.09/1</b> | 30               | 150              | 130 | G 1/2 x 250 | 22 | 17 | 12 | 3.0 | 6.5    | 2.5 |
| 1748181 | <b>1.09/2</b> | 80               | 250              | 250 | G 1/2 x 350 | 22 | 24 | 12 | 3.0 | 6.5    | 4.2 |



## 2-/3-ARM FAN / BATTERY-TERMINAL PULLERS

### 1.10

#### PULLER 2-arm pattern

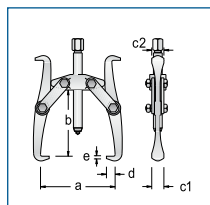
- The reliable, heavy-duty model for the removal of pulleys, wheels, ball bearings, etc.
- The double leg ends, wide or narrow, grip automatically
- The wide leg ends of the puller 1.10/2, /3, /4 and /5 possess 8 mm slots, so that pulleys or gears may also be pulled off using 8 mm bolts



1.10/1



1.10/2-5



| Code    | No.           | a <sub>max</sub> | b   | —              | ● mm | c <sub>1</sub> | c <sub>2</sub> | d  | e | max. t | ↔   |
|---------|---------------|------------------|-----|----------------|------|----------------|----------------|----|---|--------|-----|
| 8002600 | <b>1.10/1</b> | 90               | 80  | M 14x1,5 x 125 | 17   | 17             | 10             | 7  | 2 | 2.0    | 0.7 |
| 8002790 | <b>1.10/2</b> | 160              | 130 | M 18x1,5 x 170 | 19   | 24             | 20             | 13 | 3 | 5.0    | 2.0 |
| 1731874 | <b>1.10/3</b> | 220              | 170 | M 18x1,5 x 170 | 19   | 24             | 20             | 13 | 3 | 5.0    | 2.3 |
| 1731882 | <b>1.10/4</b> | 320              | 260 | G 1/2 x 350    | 22   | 27             | 32             | 27 | 3 | 8.0    | 5.1 |
| 1731890 | <b>1.10/5</b> | 400              | 320 | G 1/2 x 350    | 22   | 27             | 32             | 27 | 3 | 8.0    | 5.8 |

### 1.11

#### PULLER 3-arm pattern

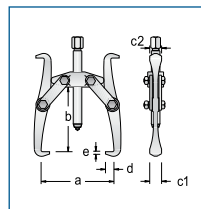
- The reliable, heavy-duty model for the removal of pulleys, wheels, ball bearings, etc.
- The double leg ends, wide or narrow, grip automatically
- The wide leg ends of the puller 1.11/2, /3, /4 and /5 possess 8 mm slots, so that pulleys or gears may also be pulled off using 8 mm bolts



1.11/1



1.11/2-5



| Code    | No.           | a <sub>max</sub> | b   | —              | ● mm | c <sub>1</sub> | c <sub>2</sub> | d  | e | max. t | ↔   |
|---------|---------------|------------------|-----|----------------|------|----------------|----------------|----|---|--------|-----|
| 8002950 | <b>1.11/1</b> | 90               | 80  | M 14x1,5 x 125 | 17   | 17             | 10             | 7  | 2 | 3.0    | 0.9 |
| 8003090 | <b>1.11/2</b> | 160              | 130 | M 18x1,5 x 170 | 19   | 24             | 20             | 13 | 3 | 7.5    | 2.6 |
| 1731904 | <b>1.11/3</b> | 220              | 170 | M 18x1,5 x 170 | 19   | 24             | 20             | 13 | 3 | 7.5    | 3.2 |
| 1731912 | <b>1.11/4</b> | 320              | 260 | G 1/2 x 350    | 22   | 27             | 32             | 27 | 3 | 12.0   | 5.8 |
| 1731920 | <b>1.11/5</b> | 400              | 320 | G 1/2 x 350    | 22   | 27             | 32             | 27 | 3 | 12.0   | 8.0 |

### 110

#### PULLING LEG

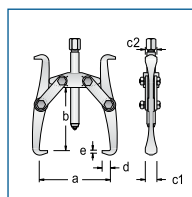
- Double ended with wide or narrow grips
- Complete with clips and screws



110/1



110/2-5



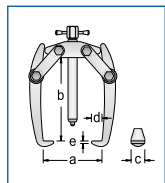
| Code    | No.              | ↔               | b   | c <sub>1</sub> | c <sub>2</sub> | d  | e | ↔   |
|---------|------------------|-----------------|-----|----------------|----------------|----|---|-----|
| 2303086 | <b>110/1-080</b> | 1.10/1 + 1.11/1 | 80  | 17             | 10             | 7  | 2 | 0.2 |
| 2303094 | <b>110/2-130</b> | 1.10/2 + 1.11/2 | 130 | 24             | 20             | 13 | 3 | 0.6 |
| 2303108 | <b>110/3-170</b> | 1.10/3 + 1.11/3 | 170 | 24             | 20             | 13 | 3 | 0.8 |
| 2303116 | <b>110/4-260</b> | 1.10/4 + 1.11/4 | 260 | 27             | 32             | 27 | 3 | 1.7 |
| 2303124 | <b>110/5-320</b> | 1.10/5 + 1.11/5 | 320 | 27             | 32             | 27 | 3 | 1.8 |



## 1.12

### BATTERY-TERMINAL PULLER 2-arm pattern

- ✓ Ideal for removing small parts such as battery terminals, pulleys, wheels, ball bearings, etc.
- ✓ The legs grip automatically

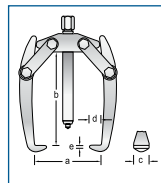


| Code    | No.            | a <sub>max</sub> | b  | —              | c  | d | e | max. t | ↺↻  |
|---------|----------------|------------------|----|----------------|----|---|---|--------|-----|
| 8003840 | <b>1.12/02</b> | 60               | 40 | M 10x1,5 x 60  | 10 | 5 | 2 | 0.5    | 160 |
| 8003760 | <b>1.12/01</b> | 60               | 60 | M 10x1,5 x 80  | 10 | 5 | 2 | 0.5    | 180 |
| 1628402 | <b>1.12/00</b> | 70               | 80 | M 10x1,5 x 100 | 14 | 8 | 2 | 0.5    | 300 |

## 1.12

### PULLER 2-arm pattern

- ✓ Handy robust model for the removal of pulleys, wheels, ball bearings, etc.
- ✓ Inexpensive economy model
- ✓ The legs grip automatically

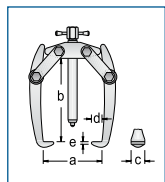


| Code    | No.           | a <sub>max</sub> | b   | —              | ● mm | c  | d  | e | max. t | ↺↻  |
|---------|---------------|------------------|-----|----------------|------|----|----|---|--------|-----|
| 8003250 | <b>1.12/0</b> | 70               | 80  | M 12x1,5 x 110 | 14   | 14 | 8  | 2 | 1.0    | 0.4 |
| 8003330 | <b>1.12/1</b> | 90               | 120 | M 14x1,5 x 155 | 17   | 18 | 11 | 2 | 2.0    | 0.8 |
| 8003410 | <b>1.12/2</b> | 130              | 160 | M 18x1,5 x 200 | 19   | 25 | 14 | 3 | 5.0    | 1.9 |
| 8003680 | <b>1.12/3</b> | 180              | 200 | G 1/2 x 250    | 22   | 32 | 20 | 4 | 8.0    | 3.7 |

## 1.13

### BATTERY-TERMINAL PULLER 3-arm pattern

- ✓ Ideal for removing small parts such as battery terminals, pulleys, wheels, ball bearings, etc.
- ✓ The legs grip automatically

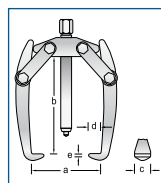


| Code    | No.            | a <sub>max</sub> | b  | —              | c  | d | e | max. t | ↺↻  |
|---------|----------------|------------------|----|----------------|----|---|---|--------|-----|
| 8004650 | <b>1.13/02</b> | 60               | 40 | M 10x1,5 x 60  | 10 | 5 | 2 | 0.75   | 0.2 |
| 8004570 | <b>1.13/01</b> | 60               | 60 | M 10x1,5 x 80  | 10 | 5 | 2 | 0.75   | 0.2 |
| 1628410 | <b>1.13/00</b> | 70               | 80 | M 10x1,5 x 100 | 14 | 8 | 2 | 1.0    | 0.4 |

## 1.13

### PULLER 3-arm pattern

- ✓ Handy robust model for the removal of pulleys, wheels, ball bearings, etc.
- ✓ Inexpensive economy model
- ✓ The legs grip automatically



| Code    | No.           | a <sub>max</sub> | b   | —              | ● mm | c  | d  | e | max. t | ↺↻  |
|---------|---------------|------------------|-----|----------------|------|----|----|---|--------|-----|
| 8004140 | <b>1.13/0</b> | 70               | 80  | M 12x1,5 x 110 | 14   | 14 | 8  | 2 | 2.0    | 0.5 |
| 8004220 | <b>1.13/1</b> | 90               | 120 | M 14x1,5 x 155 | 17   | 18 | 11 | 2 | 3.0    | 1.5 |
| 8004300 | <b>1.13/2</b> | 130              | 160 | M 18x1,5 x 200 | 19   | 25 | 14 | 3 | 7.5    | 2.5 |
| 8004490 | <b>1.13/3</b> | 180              | 200 | G 1/2 x 250    | 22   | 32 | 20 | 4 | 12.0   | 5.3 |

## 112

### PULLING LEG

- ✓ Complete with clips and screws



| Code    | No.               | ↺↻                | b  | c  | d | e | ↺↻  |
|---------|-------------------|-------------------|----|----|---|---|-----|
| 2303132 | <b>112/02-040</b> | 1.12/02 + 1.13/02 | 40 | 10 | 5 | 2 | 0.1 |
| 2303140 | <b>112/01-060</b> | 1.12/01 + 1.13/01 | 60 | 10 | 5 | 2 | 0.1 |
| 2303159 | <b>112/00-080</b> | 1.12/00 + 1.13/00 | 80 | 14 | 8 | 2 | 0.1 |

## 112

### PULLING LEG

- ✓ Complete with clips and screws



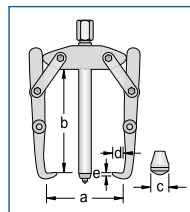
| Code    | No.              | ↺↻              | b   | c  | d  | e | ↺↻  |
|---------|------------------|-----------------|-----|----|----|---|-----|
| 2303167 | <b>112/0-080</b> | 1.12/0 + 1.13/0 | 80  | 14 | 8  | 2 | 0.1 |
| 2303175 | <b>112/1-120</b> | 1.12/1 + 1.13/1 | 120 | 18 | 11 | 2 | 0.2 |
| 2303183 | <b>112/2-160</b> | 1.12/2 + 1.13/2 | 160 | 25 | 14 | 3 | 0.6 |
| 2303191 | <b>112/3-200</b> | 1.12/3 + 1.13/3 | 200 | 32 | 20 | 4 | 1.1 |



## 1.14

### PULLER 2-arm pattern

- The reliable, extra-strong model for the removal of pulleys, wheels, ball bearings, etc.
- With technical and economical benefits due to the variable clamping reach and automatic grip of the legs
- Especially suited to removing V-belt pulley wheels and flywheels mounted on longer shafts
- Upgradeable with hydraulic spindle (see table)

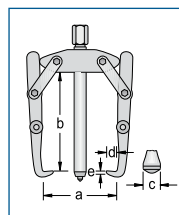


| Code    | No.           | a <sub>max</sub> | b   |                |           | ● mm | c  | d  | e   | max. t |     |
|---------|---------------|------------------|-----|----------------|-----------|------|----|----|-----|--------|-----|
| 8004810 | <b>1.14/0</b> | 90               | 100 | M 12x1,5 x 110 |           | 14   | 14 | 9  | 2.0 | 1.0    | 0.4 |
| 8005030 | <b>1.14/1</b> | 130              | 140 | M 14x1,5 x 140 |           | 17   | 18 | 11 | 2.0 | 2.0    | 0.9 |
| 8005380 | <b>1.14/2</b> | 200              | 210 | M 18x1,5 x 200 |           | 19   | 25 | 16 | 3.0 | 5.0    | 2.2 |
| 8005460 | <b>1.14/3</b> | 250              | 260 | G 1/2 x 250    | 1.06/HSP1 | 24   | 32 | 18 | 3.5 | 8.0    | 4.4 |
| 8005540 | <b>1.14/4</b> | 280              | 390 | G 1/2 x 250    | 1.06/HSP1 | 24   | 32 | 20 | 3.5 | 8.0    | 5.1 |
| 8005620 | <b>1.14/5</b> | 420              | 480 | G 1/2 x 350    | 1.06/HSP1 | 24   | 32 | 20 | 3.5 | 8.0    | 6.0 |

## 1.15

### PULLER 3-arm pattern

- The reliable, extra-strong model for the removal of pulleys, wheels, ball bearings, etc.
- With technical and economical benefits due to the variable clamping reach and automatic grip of the legs
- Especially suited to removing V-belt pulley wheels and flywheels mounted on longer shafts
- Upgradeable with hydraulic spindle (see table)

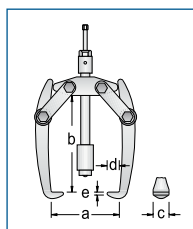


| Code    | No.           | a <sub>max</sub> | b   |                |           | ● mm | c  | d  | e   | max. t |     |
|---------|---------------|------------------|-----|----------------|-----------|------|----|----|-----|--------|-----|
| 8006000 | <b>1.15/0</b> | 90               | 100 | M 12x1,5 x 110 |           | 14   | 14 | 9  | 2.0 | 2.0    | 0.5 |
| 8006190 | <b>1.15/1</b> | 130              | 140 | M 14x1,5 x 140 |           | 17   | 18 | 11 | 2.0 | 3.0    | 1.2 |
| 8006350 | <b>1.15/2</b> | 200              | 210 | M 18x1,5 x 200 |           | 19   | 25 | 16 | 3.0 | 7.5    | 3.3 |
| 8006430 | <b>1.15/3</b> | 250              | 260 | G 1/2 x 250    | 1.06/HSP1 | 24   | 32 | 18 | 3.5 | 12.0   | 6.3 |
| 8006510 | <b>1.15/4</b> | 280              | 390 | G 1/2 x 250    | 1.06/HSP1 | 24   | 32 | 20 | 3.5 | 12.0   | 7.7 |
| 8006780 | <b>1.15/5</b> | 420              | 480 | G 1/2 x 350    | 1.06/HSP1 | 24   | 32 | 20 | 3.5 | 12.0   | 8.9 |

## 1.15/HSP

### PULLER hydraulic, 3-arm pattern

- The reliable, extra-strong model for the removal of pulleys, wheels, ball bearings, etc.
- With technical and economical benefits due to the variable clamping reach and automatic grip of the legs
- Especially suited to removing V-belt pulley wheels and flywheels mounted on longer shafts
- With the hydraulic spindle, a controlled and safe pulling action is possible at all times

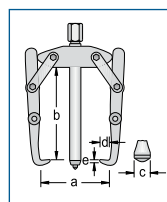


| Code    | No.                | a <sub>max</sub> | b   |           | ● mm | c  | d  | e   | max. t | N-m |     |
|---------|--------------------|------------------|-----|-----------|------|----|----|-----|--------|-----|-----|
| 1392956 | <b>1.15/3-HSP1</b> | 250              | 180 | 1.06/HSP1 | 32   | 32 | 18 | 3.5 | 10     | 17  | 6.6 |
| 1392980 | <b>1.15/4-HSP1</b> | 280              | 310 | 1.06/HSP1 | 32   | 32 | 20 | 3.5 | 10     | 17  | 8.1 |

## 114

### PULLING LEG

- With variable clamping reach
- Complete with clips and screws

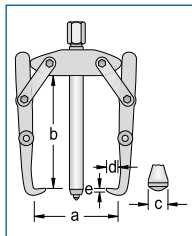


| Code    | No.              |                                | b   | c  | d  | e   |     |
|---------|------------------|--------------------------------|-----|----|----|-----|-----|
| 2303213 | <b>114/0-100</b> | 1.14/0 + 1.15/0                | 100 | 14 | 9  | 2.0 | 0.1 |
| 2303221 | <b>114/1-140</b> | 1.14/1 + 1.15/1                | 140 | 18 | 11 | 2.0 | 0.3 |
| 2303248 | <b>114/2-210</b> | 1.14/2 + 1.15/2                | 210 | 25 | 16 | 3.0 | 0.8 |
| 2303256 | <b>114/3-260</b> | 1.14/3 + 1.15/3<br>1.15/3-HSP1 | 260 | 32 | 18 | 3.5 | 1.5 |
| 2303264 | <b>114/4-390</b> | 1.14/4 + 1.15/4<br>1.15/4-HSP1 | 390 | 32 | 20 | 3.5 | 1.8 |
| 2303272 | <b>114/5-480</b> | 1.14/5 + 1.15/5                | 480 | 32 | 20 | 3.5 | 2.2 |

### 1.14/L

#### FAN PULLER 2-arm pattern

- Especially slender legs will each adjust to 3 clamping positions

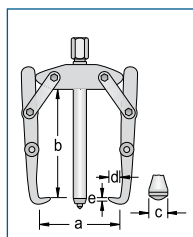


| Code    | No.            | a <sub>max</sub> | b   | mm             | mm | c  | d | e | max. t |     |
|---------|----------------|------------------|-----|----------------|----|----|---|---|--------|-----|
| 8005110 | <b>1.14/1L</b> | 150              | 200 | M 14x1,5 x 155 | 17 | 10 | 6 | 2 | 2.0    | 0.9 |

### 114/L

#### PULLING LEG

- With variable clamping reach
- Complete with clips and screws

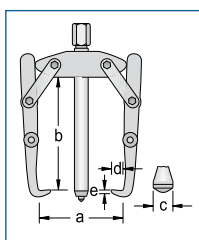


| Code    | No.                | t <sub>12</sub>   | b   | c  | d | e |     |
|---------|--------------------|-------------------|-----|----|---|---|-----|
| 2303310 | <b>114/1-200-L</b> | 1.14/1L + 1.15/1L | 200 | 10 | 6 | 2 | 0.3 |

### 1.15/L

#### FAN PULLER 3-arm pattern

- Especially slender legs will each adjust to 3 clamping positions



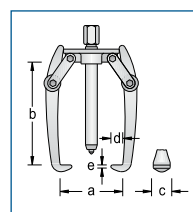
| Code    | No.            | a <sub>max</sub> | b   | mm             | mm | c  | d | e | max. t |     |
|---------|----------------|------------------|-----|----------------|----|----|---|---|--------|-----|
| 8006270 | <b>1.15/1L</b> | 150              | 200 | M 14x1,5 x 155 | 17 | 10 | 6 | 2 | 3.0    | 1.3 |



### 1.17

#### PULLER 3-arm pattern

- Very strong
- Made for industrial applications and for use on heavy agricultural and construction machines
- The legs grip automatically
- Upgradeable with hydraulic spindle (see table)
- For the assembly of a 2- or 3-arm puller

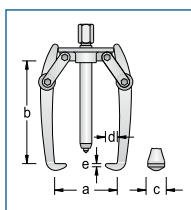


| Code    | No.           | a <sub>max</sub> | b   | mm        | mm        | c  | d  | e  | max. t |      |
|---------|---------------|------------------|-----|-----------|-----------|----|----|----|--------|------|
| 8007320 | <b>1.17/1</b> | 300              | 300 | G 1 x 360 | 1.06/HSP3 | 36 | 32 | 19 | 3.0    | 12.0 |
| 8007400 | <b>1.17/2</b> | 450              | 420 | G 1 x 500 | 1.06/HSP3 | 36 | 32 | 22 | 3.0    | 12.0 |

### 1.16

#### PULLER 2-arm pattern

- Very strong
- Made for industrial applications and for use on heavy agricultural and construction machines
- The legs grip automatically
- Upgradeable with hydraulic spindle (see table)



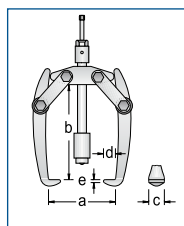
| Code    | No.           | a <sub>max</sub> | b   | mm        | mm        | c  | d  | e  | max. t |     |
|---------|---------------|------------------|-----|-----------|-----------|----|----|----|--------|-----|
| 8007080 | <b>1.16/1</b> | 300              | 300 | G 1 x 360 | 1.06/HSP3 | 36 | 32 | 19 | 3.0    | 8.0 |
| 8007160 | <b>1.16/2</b> | 450              | 420 | G 1 x 500 | 1.06/HSP3 | 36 | 32 | 22 | 3.0    | 8.0 |



## 1.16/HSP

### PULLER hydraulic, 2-arm pattern

- Very strong
- Made for industrial applications and for use on heavy agricultural and construction machines
- The legs grip automatically
- With the hydraulic spindle, a controlled and safe pulling action is possible at all times

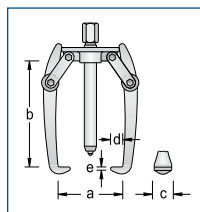


| Code    | No.                | a <sub>max</sub> | b   | mm        | c  | d  | e  | max. t | N-m | mm |
|---------|--------------------|------------------|-----|-----------|----|----|----|--------|-----|----|
| 8012590 | <b>1.16/1-HSP3</b> | 300              | 190 | 1.06/HSP3 | 41 | 32 | 19 | 3.0    | 8.0 | 22 |
| 8012670 | <b>1.16/2-HSP3</b> | 450              | 310 | 1.06/HSP3 | 41 | 32 | 22 | 3.0    | 8.0 | 22 |

## 116

### PULLING LEG

- Very strong
- Complete with clips and screws

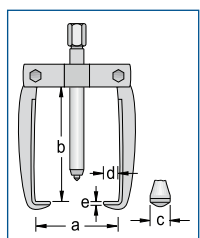


| Code    | No.              | mm                                           | b   | c  | d  | e | max. t |
|---------|------------------|----------------------------------------------|-----|----|----|---|--------|
| 2303280 | <b>116/1-300</b> | 1.16/1 + 1.17/1<br>1.16/1-HSP3 + 1.17/1-HSP3 | 300 | 32 | 19 | 3 | 1.8    |
| 2303299 | <b>116/2-420</b> | 1.16/2 + 1.17/2<br>1.16/2-HSP3 + 1.17/2-HSP3 | 300 | 32 | 22 | 3 | 2.2    |

## 1.18

### PULLER 2-arm pattern

- The tried and tested range for economical bearing removal

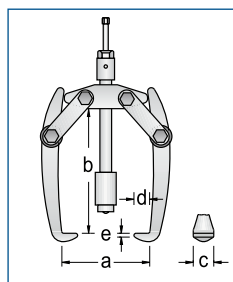


| Code    | No.           | a <sub>max</sub> | b   | mm             | c  | d  | e   | max. t | mm  |
|---------|---------------|------------------|-----|----------------|----|----|-----|--------|-----|
| 1464965 | <b>1.18/1</b> | 110              | 110 | M 14x1,5 x 163 | 17 | 18 | 5.0 | 2.0    | 1.1 |
| 1464973 | <b>1.18/2</b> | 160              | 140 | M 18x1,5 x 215 | 21 | 20 | 6.5 | 3.0    | 2.1 |
| 1464981 | <b>1.18/3</b> | 200              | 200 | G 1/2 x 282    | 22 | 22 | 7.5 | 5.0    | 3.4 |

## 1.17/HSP

### PULLER hydraulic, 3-arm pattern

- Very strong
- Made for industrial applications and for use on heavy agricultural and construction machines
- The legs grip automatically
- With the hydraulic spindle, a controlled and safe pulling action is possible at all times



| Code    | No.                | a <sub>max</sub> | b   | mm        | c  | d  | e  | max. t | N-m  | mm |
|---------|--------------------|------------------|-----|-----------|----|----|----|--------|------|----|
| 8014290 | <b>1.17/1-HSP3</b> | 300              | 190 | 1.06/HSP3 | 41 | 32 | 19 | 3.0    | 12.0 | 29 |
| 8014370 | <b>1.17/2-HSP3</b> | 450              | 310 | 1.06/HSP3 | 41 | 32 | 22 | 3.0    | 12.0 | 29 |



## 1.18 / 1.19

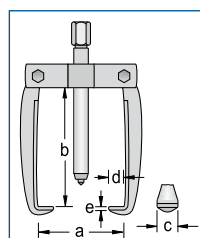


406

## 1.19

### PULLER 3-arm pattern

- The tried and tested range for economical bearing removal



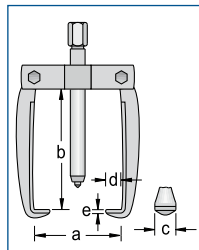
| Code    | No.           | a <sub>max</sub> | b   | mm             | c  | d  | e   | max. t | mm  |
|---------|---------------|------------------|-----|----------------|----|----|-----|--------|-----|
| 1465007 | <b>1.19/1</b> | 110              | 110 | M 14x1,5 x 163 | 17 | 18 | 5.0 | 2.0    | 1.4 |
| 1465015 | <b>1.19/2</b> | 160              | 140 | M 18x1,5 x 215 | 21 | 20 | 6.5 | 3.0    | 2.7 |
| 1465023 | <b>1.19/3</b> | 200              | 200 | G 1/2 x 282    | 22 | 22 | 7.5 | 5.0    | 4.5 |



## 1.18

### FAN PULLER 2-arm pattern

- Removes bearings swiftly and cleanly

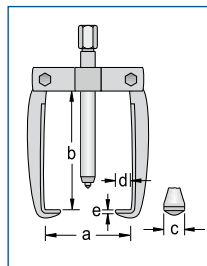


| Code    | No.            | a <sub>max</sub> | b  | mm         | c  | d  | e   | max. t | mm  |
|---------|----------------|------------------|----|------------|----|----|-----|--------|-----|
| 1656996 | <b>1.18/02</b> | 65               | 50 | M 10 x 115 | 12 | 10 | 3.0 | 1.0    | 0.2 |
| 1657089 | <b>1.18/01</b> | 70               | 70 | M 10 x 115 | 12 | 10 | 3.0 | 1.0    | 0.2 |
| 1656937 | <b>1.18/0</b>  | 80               | 80 | M 10 x 115 | 12 | 10 | 3.0 | 1.0    | 0.2 |

## 1.19

### FAN PULLER 3-arm pattern

- Removes bearings swiftly and cleanly

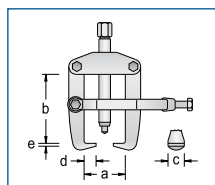


| Code    | No.            | a <sub>max</sub> | b  | mm         | c  | d  | e   | max. t | mm  |
|---------|----------------|------------------|----|------------|----|----|-----|--------|-----|
| 1657054 | <b>1.19/02</b> | 65               | 50 | M 10 x 115 | 12 | 10 | 3.0 | 1.0    | 0.3 |
| 1657046 | <b>1.19/01</b> | 70               | 70 | M 10 x 115 | 12 | 10 | 3.0 | 1.0    | 0.3 |
| 1657011 | <b>1.19/0</b>  | 80               | 80 | M 10 x 115 | 12 | 10 | 3.0 | 1.0    | 0.3 |

## 1.20

### PULLER with clamping yoke

- These pullers are mainly employed for removing car and truck steering arms
- The clamping yoke applies firm pressure behind the part to be moved and keeps the puller firmly in the correct position

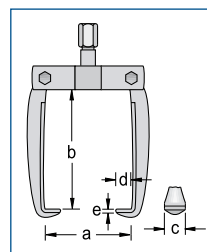


| Code    | No.           | a <sub>max</sub> | b   | mm             | c  | d  | e  | max. t | mm  |
|---------|---------------|------------------|-----|----------------|----|----|----|--------|-----|
| 8008050 | <b>1.20/1</b> | 90               | 85  | M 18x1,5 x 130 | 19 | 22 | 12 | 3.0    | 5.0 |
| 8008130 | <b>1.20/2</b> | 90               | 100 | M 18x1,5 x 130 | 19 | 24 | 15 | 3.0    | 5.0 |
| 8008210 | <b>1.20/3</b> | 150              | 140 | G 1/2 x 175    | 22 | 30 | 18 | 3.5    | 7.5 |

## 1.19/SH

### PULLER WITH IMPACT HAMMER

- The tried and tested range for economical bearing removal, spindle not supplied
- Impact weight: 700 g



| Code    | No.                 | a <sub>max</sub> | b  | c  | d  | e   | max. t | mm  |
|---------|---------------------|------------------|----|----|----|-----|--------|-----|
| 2178001 | <b>1.19/01-SH1A</b> | 70               | 70 | 12 | 10 | 3.0 | 1.0    | 1.2 |

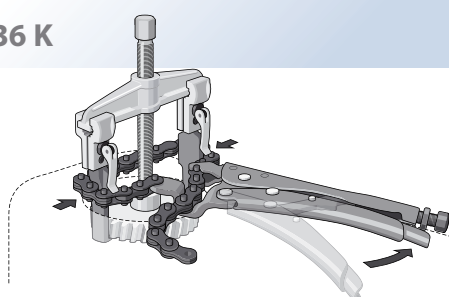


## CLAMPING YOKE

- The clamping yokes stop the legs bending outwards under load and thus possibly slipping.
- This can also be attained using the new GEDORE 136 K clamping chain – even with a very restricted contact surface of the legs extracting can still be done.



**136 K**

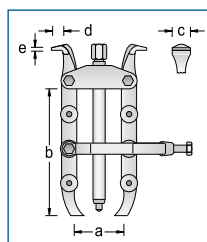


**379**

## 1.22

### PULLER with clamping yoke

- Double-ended hooks
- Particularly suitable for separating and removing flush-seated parts
- Especially economical as it covers a range of different sizes



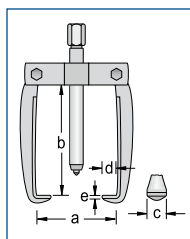
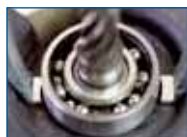
| Code    | No.           | a <sub>max</sub> | b   | mm             | c  | d  | e  | max. t | mm  |
|---------|---------------|------------------|-----|----------------|----|----|----|--------|-----|
| 8009020 | <b>1.22/1</b> | 110              | 170 | M 18x1,5 x 200 | 19 | 25 | 14 | 3.5    | 5.0 |
| 8009100 | <b>1.22/2</b> | 160              | 260 | G 1/2 x 350    | 22 | 25 | 14 | 3.5    | 7.5 |
| 8009290 | <b>1.22/3</b> | 160              | 325 | G 1/2 x 350    | 22 | 25 | 14 | 3.5    | 7.5 |



### 1.18/XS

#### PULLER with extra slim legs

- Very slim forged legs
- Ideal for use in hard-to-reach places, e.g. work on electric motors

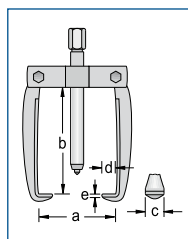


| Code    | No.             | a <sub>max</sub> | b  | —              | c | d | e | s   | max. t | ↺↻  |
|---------|-----------------|------------------|----|----------------|---|---|---|-----|--------|-----|
| 2018594 | <b>1.18/0XS</b> | 50               | 70 | M 10x1,5 x 100 | 8 | 3 | 2 | 2,9 | 0.5    | 240 |

### 1.19/XS

#### PULLER with extra slim legs

- Very slim forged legs
- Ideal for use in hard-to-reach places, e.g. work on electric motors

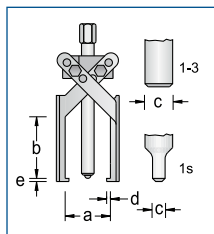


| Code    | No.             | a <sub>max</sub> | b  | —              | c | d | e | s   | max. t | ↺↻  |
|---------|-----------------|------------------|----|----------------|---|---|---|-----|--------|-----|
| 2018608 | <b>1.19/0XS</b> | 50               | 70 | M 10x1,5 x 100 | 8 | 3 | 2 | 2,9 | 0.8    | 300 |

### 1.23

#### PULLER with slim legs

- For removing bearings in confined spaces
- The legs grip automatically
- No. 1.23/5: particularly slim legs

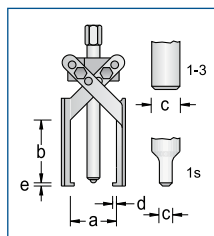


| Code    | No.            | a <sub>max</sub> | b   | —              | mm | c  | d | e   | max. t | ↺↻  |
|---------|----------------|------------------|-----|----------------|----|----|---|-----|--------|-----|
| 8084580 | <b>1.23/1S</b> | 80               | 85  | M 10 x 105     | 12 | 11 | 4 | 2.5 | 1.5    | 0.4 |
| 8084310 | <b>1.23/1</b>  | 80               | 85  | M 10 x 105     | 12 | 23 | 4 | 2.5 | 2.0    | 0.4 |
| 8084660 | <b>1.23/2</b>  | 120              | 120 | M 14x1,5 x 130 | 17 | 31 | 5 | 3.5 | 3.5    | 0.8 |
| 8084740 | <b>1.23/3</b>  | 120              | 150 | M 14x1,5 x 205 | 17 | 31 | 5 | 3.5 | 3.5    | 1.1 |

### 1.23/XS

#### PULLER with extra slim legs

- Very slim forged legs
- Ideal for use in hard-to-reach places, e.g. work on electric motors
- The legs grip automatically



| Code    | No.             | a <sub>max</sub> | b  | —              | c | d   | e | s   | max. t | ↺↻  |
|---------|-----------------|------------------|----|----------------|---|-----|---|-----|--------|-----|
| 2018578 | <b>1.23/1XS</b> | 80               | 85 | M 10x1,5 x 100 | 9 | 3.5 | 2 | 2,9 | 0.7    | 330 |



### 1.06/XS • 1.07/XS



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373



## HYDRAULIC IMPLEMENTS

### 1.50

#### HYDRAULIC IMPLEMENTS

- Suitable for pressing, straightening, lifting, bending, and pulling
- Consisting of hydraulic hand pump 1.50/1 and hydraulic cylinder 1.51



| Code    | No.            | consisting of:                                           | Weight |
|---------|----------------|----------------------------------------------------------|--------|
| 8110410 | <b>1.50/10</b> | Hydraulic hand pump 1.50/1<br>Hydraulic cylinder 1.51/10 | 14.0   |
| 8110680 | <b>1.50/11</b> | Hydraulic hand pump 1.50/1<br>Hydraulic cylinder 1.51/11 | 15.1   |

### 1.50/1

#### HYDRAULIC HAND PUMP

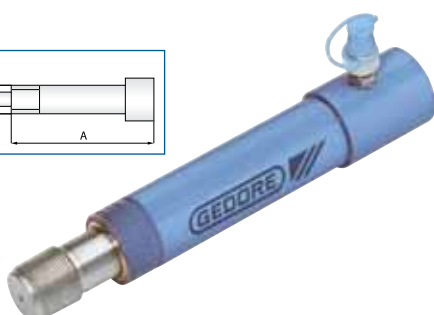
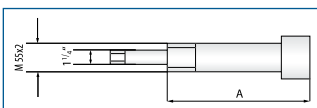
- Complete with 1.50 m high-pressure hose
- To fit hydraulic cylinder 1.51
- Up to 700 bar



| Code    | No.           | for hydraulic cylinder | Weight |
|---------|---------------|------------------------|--------|
| 8022710 | <b>1.50/1</b> | 1.51/10 1.51/11        | 8.3    |

### 1.51

#### HYDRAULIC CYLINDER



| Code    | No.            | Stroke height | A   | max. t | Weight |
|---------|----------------|---------------|-----|--------|--------|
| 8023440 | <b>1.51/10</b> | 150           | 275 | 10     | 5.0    |
| 8110760 | <b>1.51/11</b> | 230           | 355 | 10     | 6.0    |

### 1.51/V

#### EXTENSION FOR 1.51/10 + 11

- 1.51/V015 are used to protect the cylinder/piston
- The 1.51/V045, 1.51/V125 and 1.51/V205 extensions are attached to the hydraulic cylinder using adapter 1.51/A-2

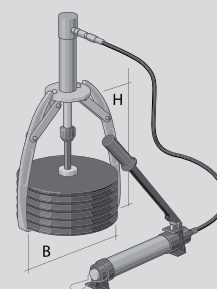


| Code    | No.              | Description                              | Weight |
|---------|------------------|------------------------------------------|--------|
| 2065045 | <b>1.51/V015</b> | Extension and cylinder protection, 15 mm | 0.4    |
| 2065053 | <b>1.51/V045</b> | Extension for hydraulic cylinder, 45 mm  | 0.5    |
| 2065061 | <b>1.51/V125</b> | Extension for hydraulic cylinder, 125 mm | 0.9    |
| 2065088 | <b>1.51/V205</b> | Extension for hydraulic cylinder, 205 mm | 1.3    |
| 2065096 | <b>1.51/A-2</b>  | Adaptor for 1.51/V045 - V205             | 0.5    |



## HYDRAULIC IMPLEMENTS

- As the puller cannot be rotated during extraction, pulling with the assistance of hydraulic aids - hydraulic implements, hydraulic spindle or hydraulic press - saves both on time and the effort needed.



- The hydraulic implements can also be used with the 1.07/4 and 1.07/4A pullers.



### 1.07/4



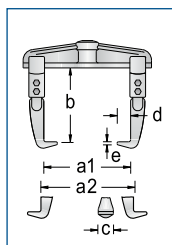
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## 1.06/H

### PULLER for hydraulic implement 1.50

- For the fast and damage-free removal of pulleys, wheels, ball bearings, etc.
- Robust pattern, designed for rigidity and heavy duty use
- By reversing the legs, this tool can be used as an internal or external puller
- The reach may be increased both by using pulling legs in special lengths, and by using extensions

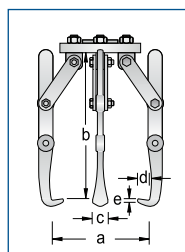


| Code    | No.            | a <sub>1</sub> | a <sub>2 min</sub> | a <sub>2 max</sub> | b   | c  | d  | e   | max. t | ⚙️   |
|---------|----------------|----------------|--------------------|--------------------|-----|----|----|-----|--------|------|
| 8112620 | <b>1.06/40</b> | 520            | 185                | 600                | 200 | 36 | 28 | 6.5 | 10.0   | 11.0 |

## 1.15/H

### PULLER for hydraulic implement 1.50

- Heavy-duty pattern for the removal of gear wheels, spoked wheels, pulleys, etc.
- The legs grip automatically
- The legs can be moved for use as a 2-arm puller
- The adjustable reach means that this puller is very versatile

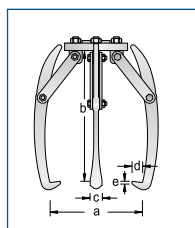


| Code    | No.            | a <sub>min</sub> | b   | c  | d  | e   | max. t | ⚙️  |
|---------|----------------|------------------|-----|----|----|-----|--------|-----|
| 8006860 | <b>1.15/30</b> | 250              | 260 | 32 | 18 | 3.5 | 12.0   | 9.0 |
| 8109590 | <b>1.15/40</b> | 280              | 390 | 32 | 20 | 3.5 | 12.0   | 9.2 |

## 1.17/H

### UNIVERSAL PULLER for hydraulic implement 1.50

- Heavy-duty pattern for the removal of gear wheels, spoked wheels, pulleys, etc
- The legs grip automatically



| Code    | No.            | a <sub>max</sub> | b   | c  | d  | e   | max. t | ⚙️   |
|---------|----------------|------------------|-----|----|----|-----|--------|------|
| 8007590 | <b>1.17/10</b> | 300              | 300 | 36 | 19 | 3.5 | 12.0   | 9.1  |
| 8109670 | <b>1.17/20</b> | 425              | 425 | 36 | 22 | 3.5 | 12.0   | 12.4 |



## 5.10

Remember the safety cover!



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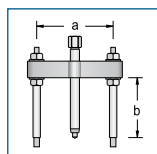


## SEPARATORS

### 1.38

#### SEPARATOR PULLER

- These separator pullers are used together with the bearing separators 1.40
- The tension bolts are screwed into the threaded holes in the bearing separators



| Code    | No.           | for separator | a       | b   |             | M                 | mm |           |      |
|---------|---------------|---------------|---------|-----|-------------|-------------------|----|-----------|------|
| 8017550 | <b>1.38/0</b> | 1.40/0        | 40-120  | 125 | M 14 x 120  | M10 / M12x1,5     | 17 | –         | 1.0  |
| 8017630 | <b>1.38/1</b> | 1.40/1        | 60-165  | 180 | M 18 x 170  | M10 / M14x1,5     | 19 | –         | 1.1  |
| 8017710 | <b>1.38/2</b> | 1.40/2        | 70-215  | 195 | G 1/2 x 210 | M14x1,5 / M16x1,5 | 22 | 1.06/HSP1 | 3.4  |
| 8017980 | <b>1.38/3</b> | 1.40/3        | 90-300  | 205 | G 3/4 x 280 | M18x1,5 / M20x1,5 | 27 | 1.06/HSP2 | 6.5  |
| 8018010 | <b>1.38/4</b> | 1.40/4        | 125-380 | 275 | G 1 x 310   | M22x1,5 / M24x1,5 | 36 | 1.06/HSP3 | 11.6 |
| 8018280 | <b>1.38/5</b> | 1.40/5        | 140-440 | 320 | G 1 x 360   | M24x1,5 / M26x1,5 | 36 | 1.06/HSP3 | 16.6 |

### 1.38/V

#### EXTENSION ROD

- Extension rods for separator pullers 1.38



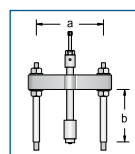
| Code    | No.            | for separator | M       | mm  |     |
|---------|----------------|---------------|---------|-----|-----|
| 8018440 | <b>1.38/AV</b> | 1.38/0 1.38/1 | M10     | 100 | 0.3 |
| 8018520 | <b>1.38/CV</b> | 1.38/2        | M14x1,5 | 100 | 0.3 |
| 8018600 | <b>1.38/DV</b> | 1.38/3        | M18x1,5 | 100 | 0.7 |
| 8018790 | <b>1.38/EV</b> | 1.38/4        | M22x1,5 | 200 | 2.1 |
| 8018870 | <b>1.38/FV</b> | 1.38/5        | M24x1,5 | 200 | 2.7 |



### 1.38/HSP

#### SEPARATOR PULLER hydraulic

- For use with separating blades 1.40
- The tension bolts are screwed into the threaded bores of the separating blades



| Code    | No.                | for separator | M       | a       | b   |      |
|---------|--------------------|---------------|---------|---------|-----|------|
| 8014960 | <b>1.38/2-HSP1</b> | 1.40/2        | M14x1,5 | 70-215  | 175 | 3.9  |
| 8015180 | <b>1.38/3-HSP2</b> | 1.40/3        | M18x1,5 | 90-300  | 195 | 7.1  |
| 8015420 | <b>1.38/4-HSP3</b> | 1.40/4        | M22x1,5 | 125-380 | 240 | 12.6 |
| 8015500 | <b>1.38/5-HSP3</b> | 1.40/5        | M24x1,5 | 140-440 | 290 | 17.4 |



## 1.40

### SEPARATOR

- For removing taper roller and ball bearings, inner bearing races, and other tightly-seated or thin-walled parts
- Operation: To remove tightly-seated parts, the sharp edges of the separator blades are pressed behind the part and it is then withdrawn using the correct puller no. 1.38. To avoid damage to delicate parts, the flat surfaces of the separator blades are used. This produces a large support surface that prevents deformation.



| Code    | No.           | for puller | M       | mm     |      |
|---------|---------------|------------|---------|--------|------|
| 8019680 | <b>1.40/0</b> | 1.38/0     | M10     | 5-60   | 0.5  |
| 8019760 | <b>1.40/1</b> | 1.38/1     | M10     | 12-75  | 0.9  |
| 8019840 | <b>1.40/2</b> | 1.38/2     | M14x1,5 | 22-115 | 2.4  |
| 8019920 | <b>1.40/3</b> | 1.38/3     | M18x1,5 | 30-155 | 4.7  |
| 8020180 | <b>1.40/4</b> | 1.38/4     | M22x1,5 | 30-200 | 8.9  |
| 8020260 | <b>1.40/5</b> | 1.38/5     | M24x1,5 | 30-250 | 15.3 |

## 1.41

### SEPARATOR AND PULLER SET

- Set comprising separator, puller, and extension rods
- In sheet metal case

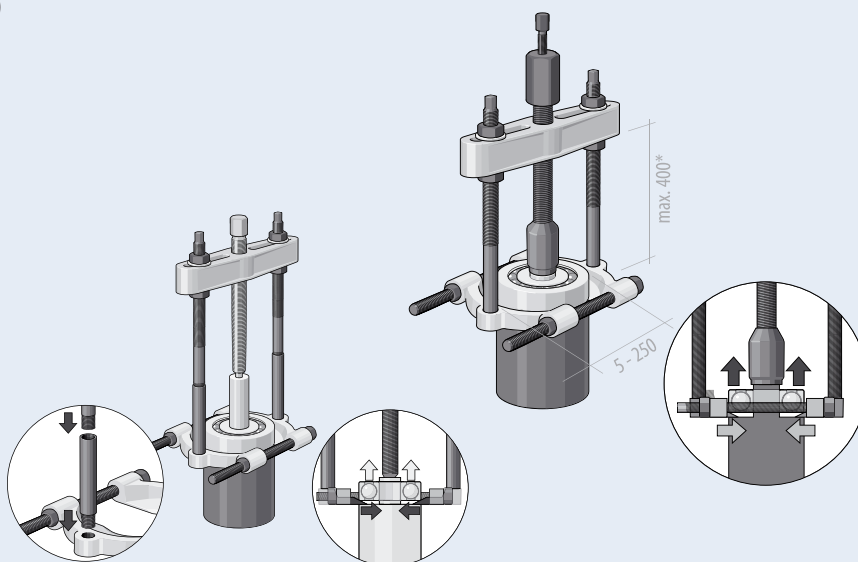


| Code    | No.           | Contents              |      |
|---------|---------------|-----------------------|------|
| 8109750 | <b>1.41/0</b> | 1.38/0 1.38/AV 1.40/0 | 2.8  |
| 8109830 | <b>1.41/1</b> | 1.38/1 1.38/AV 1.40/1 | 5.3  |
| 8109910 | <b>1.41/2</b> | 1.38/2 1.38/CV 1.40/2 | 9.0  |
| 8110090 | <b>1.41/3</b> | 1.38/3 1.38/DV 1.40/3 | 16.0 |
| 8110170 | <b>1.41/4</b> | 1.38/4 1.38/EV 1.40/4 | 28.6 |



### Separator pullers 1.38 and 1.40

- GEDORE separating blades are particularly suited for removing taper roller and ball bearings, inner bearing races and other tightly-seated or thin-walled parts.
- To remove tightly-seated parts, the sharp edges of the separator blades are pressed behind the part to be removed which is then withdrawn using the correct 1.38 separator puller.
- To avoid damage to delicate parts, the flat surfaces of the separator blades are used. This produces a large contact surface that prevents tilting.
- The clamping reach can be enlarged with the aid of the 1.38/AV - FV tension bolt extensions.



**923**



**487**



**920**



**487**

# 1.92 EXTRACTOR

Better solutions through innovative and precise technology



The solution for ball bearings, which are mounted on a shaft or in a housing, and thus cannot be extracted neither from the inside nor from the outside.

## FIELDS OF APPLICATION



Suitable for more than 40 standard ball bearings up to 6311

## WORKING PRINCIPLE



①

The innovative design with its maximum level of functionality in connection with simple handling provides a PLUS in effectivity and productivity.

②

The top plate is easy to use. The legs are fixed in the slot.

③

The self-locking system guarantees 100% force transmission and the maximum safety during withdrawal



In view of the different ball bearing constructions dependent on manufacturer, the table presented can only serve as an orientation guide in selecting the legs and heads.

## 1.92

### BALL BEARING EXTRACTOR PLUS

- Using the ball bearing extractor, the removal of shaft-mounted ball bearings in a housing is now possible without any problems
- Due to its great degree of functionality combined with the simplified handling, this design makes a PLUS in effectiveness and productivity possible
- This tool is easy to use: The legs are fixed in the slot
- The self-locking arrangement means that the force applied is 100% utilised
- Secure at all times against slipping off - and a straight pulling force for precise working
- Suitable for more than 40 standard ball bearings up to 6311
- 1.92/1 for bearings: 6000-6010, 6200-6205, 6300-6304
- 1.92/2 for bearings: 6011-6012, 6206-6212, 6305-6311, 6403-6407
- 1.92/12 contains set 1.92/1 and 1.92/2



1.92/12

| Code    | No.    | Bearing | Leg     | Head size | Weight |
|---------|--------|---------|---------|-----------|--------|
| 1553534 | 1.92/1 | 6000    | 1.92/10 | 192/1-7   | 2.3    |
|         |        | 6001    | 1.92/10 | 192/1-4   |        |
|         |        | 6002    | 1.92/10 | 192/1-3   |        |
|         |        | 6003    | 1.92/10 | 192/1-4   |        |
|         |        | 6004    | 1.92/30 | 192/1-3   |        |
|         |        | 6005    | 1.92/30 | 192/1-3   |        |
|         |        | 6006    | 1.92/30 | 192/1-3   |        |
|         |        | 6007    | 1.92/40 | 192/1-3   |        |
|         |        | 6008    | 1.92/40 | 192/1-3   |        |
|         |        | 6009    | 1.92/40 | 192/1-3   |        |
|         |        | 6010    | 1.92/40 | 192/1-3   |        |
|         |        | 6200    | 1.92/10 | 192/1-4   |        |
|         |        | 6201    | 1.92/20 | 192/1-7   |        |
|         |        | 6202    | 1.92/20 | 192/1-4   |        |
|         |        | 6203    | 1.92/30 | 192/1-4   |        |
|         |        | 6204    | 1.92/40 | 192/1-4   |        |
|         |        | 6205    | 1.92/40 | 192/1-3   |        |
|         |        | 6300    | 1.92/30 | 192/1-3   |        |
|         |        | 6301    | 1.92/40 | 192/1-3   |        |
|         |        | 6302    | 1.92/40 | 192/1-7   |        |
|         |        | 6303    | 1.92/40 | 192/1-7   |        |
|         |        | 6304    | 1.92/40 | 192/1-7   |        |

| Code    | No.     | Bearing                           | Leg     | Head size | Weight |
|---------|---------|-----------------------------------|---------|-----------|--------|
| 1553542 | 1.92/2  | 6011                              | 1.92/50 | 192/2-3   | 5.2    |
|         |         | 6012                              | 1.92/50 | 192/2-3   |        |
|         |         | 6206                              | 1.92/50 | 192/2-3   |        |
|         |         | 6207                              | 1.92/50 | 192/2-3   |        |
|         |         | 6208                              | 1.92/60 | 192/2-3   |        |
|         |         | 6209                              | 1.92/60 | 192/2-3   |        |
|         |         | 6210                              | 1.92/60 | 192/2-3   |        |
|         |         | 6211                              | 1.92/60 | 192/2-3   |        |
|         |         | 6212                              | 1.92/70 | 192/2-3   |        |
|         |         | 6305                              | 1.92/60 | 192/2-7   |        |
|         |         | 6306                              | 1.92/60 | 192/2-4   |        |
|         |         | 6307                              | 1.92/60 | 192/2-4   |        |
|         |         | 6308                              | 1.92/70 | 192/2-4   |        |
|         |         | 6309                              | 1.92/70 | 192/2-4   |        |
|         |         | 6310**                            | 1.92/70 | 192/2-4   |        |
|         |         | 6311***                           | 1.92/70 | 192/2-4   |        |
|         |         | 6403                              | 1.92/60 | 192/2-3   |        |
|         |         | 6404                              | 1.92/70 | 192/2-3   |        |
|         |         | 6405                              | 1.92/70 | 192/2-7   |        |
|         |         | 6406                              | 1.92/70 | 192/2-7   |        |
|         |         | 6407*                             | 1.92/60 | 192/2-7   |        |
| 1553550 | 1.92/12 | Contents of set 1.92/1 and 1.92/2 |         |           | 7.6    |

## 1.92

### PARTS

- Pulling legs No. 1.92/10 to 1.92/70 = set of 4 pieces
- For spindle 1.1406200: please also order adaptor 192/A-2

| Code    | No.       | Description                 |
|---------|-----------|-----------------------------|
| 1583263 | 1.92/10   | Leg 120 mm                  |
| 1583271 | 1.92/20   | Leg 125 mm                  |
| 1583298 | 1.92/30   | Leg 130 mm                  |
| 1583301 | 1.92/40   | Leg 135 mm                  |
| 1583328 | 1.92/50   | Leg 140 mm                  |
| 1583336 | 1.92/60   | Leg 145 mm                  |
| 1583344 | 1.92/70   | Leg 150 mm                  |
| 1574485 | 192/1-3   | Head small 3                |
| 1574493 | 192/1-4   | Head small 4                |
| 1574507 | 192/1-7   | Head small 3/7              |
| 1574515 | 192/2-3   | Head big 3                  |
| 1574523 | 192/2-4   | Head big 4                  |
| 1574531 | 192/2-7   | Head big 3/7                |
| 1574566 | 192/A-2   | Adaptor for head big 1.92/2 |
| 1576208 | 1.1006170 | Spindle small for 1.92/1    |
| 1576224 | 1.1406200 | Spindle big for 1.92/2      |


**1.29**
**BALL BEARING EXTRACTOR**

- For removing ball bearings that are both on a shaft and in a housing
- The legs selected using the table are inserted into the ball race, evenly distributed in the outer ring according to the number of balls
- The support rings supplied for the ball bearings to be removed are placed on the bearings' inner races
- The hub with spindle is then placed on the centering depression of the shaft and the spindle put under tension with the legs
- Delivery contains head and spindle
- Please order suitable legs separately!



| Code    | No.           | mm         | mm | mm  |
|---------|---------------|------------|----|-----|
| 8011000 | <b>1.29/1</b> | M 10 x 160 | 14 | 0.2 |
| 8011190 | <b>1.29/2</b> | M 12 x 195 | 14 | 0.5 |
| 8011270 | <b>1.29/3</b> | M 14 x 210 | 17 | 0.6 |
| 8011350 | <b>1.29/4</b> | M 18 x 230 | 19 | 0.9 |
| 8011430 | <b>1.29/5</b> | M 20 x 235 | 22 | 1.9 |



**Extracting without drilling open the ball bearing! Therefore no risk of any chippings in machines.**


**1.29**
**PULLING LEGS 4 pieces**

- \* Used with support rings for pulling bearings



| Code    | No.            | mm  | for hub          | for ball bearing No.                              | mm  |
|---------|----------------|-----|------------------|---------------------------------------------------|-----|
| 8011510 | <b>1.29/10</b> | 145 | 1.29/1           | 6000 6001 6002                                    | 80  |
| 8011780 | <b>1.29/15</b> | 145 | 1.29/1           | 6003 6004 6005 6200 6201 6202                     | 100 |
| 8011860 | <b>1.29/20</b> | 177 | 1.29/2           | 6006 6203                                         | 200 |
| 8011940 | <b>1.29/25</b> | 177 | 1.29/2           | 6007 6008 6009 6010 6204 6205 6300 6301 6302      | 200 |
| 8012080 | <b>1.29/30</b> | 185 | 1.29/2<br>1.29/3 | 6303 6304 6206 6011 6012                          | 300 |
| 8012160 | <b>1.29/35</b> | 187 | 1.29/3           | 6207 6208 6305                                    | 400 |
| 8012240 | <b>1.29/40</b> | 235 | 1.29/4           | 6209 6210 6306                                    | 600 |
| 8110250 | <b>1.29/45</b> | 236 | 1.29/4<br>1.29/5 | 6211 6212 6308* 6404 6405 6309* 6310* 6311* 6406* | 800 |

**1.29/K**
**BALL BEARING EXTRACTOR SET**

- In sheet metal case, dimensions: 285 x 190 x 75 mm



| Code    | No.            | Contents                                                                                                            | mm  |
|---------|----------------|---------------------------------------------------------------------------------------------------------------------|-----|
| 8110330 | <b>1.29/1K</b> | 3 hubs with spindle 1.29/1 - 1.29/3<br>6 sets legs 1.29/10 - 1.29/35<br>1 plug-in handle 1.29/0                     | 5.1 |
| 8012320 | <b>1.29/3K</b> | 5 hubs with spindle 1.29/1 - 1.29/5<br>8 sets legs 1.29/10 - 1.29/45<br>1 plug-in handle 1.29/0 and 4 support rings | 8.7 |


**1.85**

**379**

**5.10**

**379**





# INTERNAL EXTRACTOR OVERVIEW

WITH MATCHING COUNTER-STAYS AND SLIDING HAMMERS



|                        | No. 1.34/1-4 | No. 1.30/0-5<br>No. 1.30/2N-3N | No. 1.30/6-7 | No. 1.30/8-9 | No. 1.30/10  |                |
|------------------------|--------------|--------------------------------|--------------|--------------|--------------|----------------|
|                        | <br>ø 5-36   | <br>ø 5-35                     | <br>ø 35-55  | <br>ø 55-100 | <br>ø 60-160 |                |
| No. 1.35/0<br><br>180  |              |                                |              |              |              | <br>No. 1.36/1 |
| No. 1.35/1<br><br>230  |              |                                |              |              |              | <br>No. 1.36/2 |
| No. 1.35/1A<br><br>230 |              |                                |              |              |              | <br>No. 1.36/3 |
| No. 1.35/2<br><br>500  |              |                                |              |              |              | <br>No. 1.36/4 |
| No. 1.35/3<br><br>500  |              |                                |              |              |              |                |





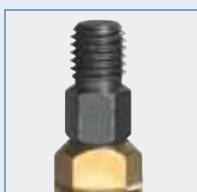
## 1.34 INTERNAL EXTRACTOR

In a class of its own due to the precision manufacturing technology

### Contents:



1.34/10 - 5-piece internal extractor set for closely-fitting ball bearings  
Attractive set arrangement  
Can be used with sliding hammer or counter-stay



1.34 Internal extractor



Higher spread range

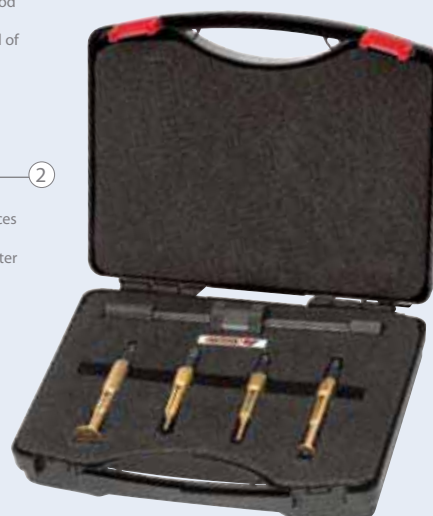
3 Force transmission is increased and improved by precise manufacturing accuracy.



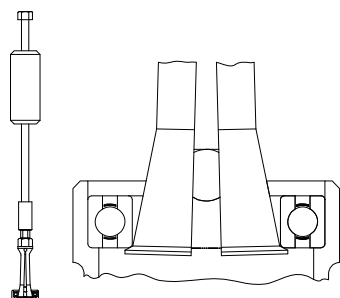
1 The simple handling method guarantees the fast and uncomplicated withdrawal of ball bearings.

2 Because of their titanium nitrided coating the surfaces have increased hardness and are provided with better protection.

4 The expansion ranges have been increased, thus fewer pullers are necessary for the same overall expansion range.



## FEATURES MATERIAL



## ADVANTAGES TITANIUM NITRIDED SURFACE

- Harder
- More wear-resistant
- Better surface protection
- More heat-resistant
- Fine design
- Fast compensation of temperature differences

### 1.34/1 - 1.34/4

#### INTERNAL EXTRACTOR

- For use with impact bearing puller no. 1.35/0 or support brace no. 1.36/1
- Multiple wrench size (11+ 13 mm)



| Code    | No.           | M   | mm        |     |
|---------|---------------|-----|-----------|-----|
| 1638556 | <b>1.34/1</b> | M10 | 5,0-8,5   | 40  |
| 1638564 | <b>1.34/2</b> | M10 | 8,0-15,0  | 60  |
| 1638572 | <b>1.34/3</b> | M10 | 15,0-25,0 | 80  |
| 1638580 | <b>1.34/4</b> | M10 | 25,0-36,0 | 100 |

### 1.34/10

#### INTERNAL EXTRACTOR SET 5 pieces

- For tightly-fitting ball bearings, bearing races, bushings and shaft seals
- Titanium-nitrided surface
- Operation: The internal extractor is inserted into the bearing and the spindle screwed in. The sharp turned-out shoulders of the pulling shell jaws will press outwards behind the part to be extracted. The counter-support brace or the impact bearing puller is then added.

#### Contents in practical case:

- 4 internal extractors:
  - 1.34/1 (5-8.5 mm)
  - 1.34/2 (8-15 mm)
  - 1.34/3 (15-24 mm)
  - 1.34/4 (25-36 mm)
- 1 impact bearing puller 1.35/0
- Multiple wrench size (11+13 mm)
- M10 connecting thread



| Code    | No.            |     |
|---------|----------------|-----|
| 1638629 | <b>1.34/10</b> | 1.3 |

### 1.30/0-9

#### INTERNAL EXTRACTOR

- For extremely-tightly-packed ball bearings, bearing races, bushings, and shaft seals Simmering®
- Operation: The internal extractor is inserted into the bearing and the spindle screwed in. The sharp turned-out shoulders of the pulling shell jaws will press outwards behind the part to be extracted. The counter-support brace is then added. Both feet must be aligned parallel to the spindle to ensure rigidity.



| Code    | No.            | M       | mm     | mm     | mm | mm   |
|---------|----------------|---------|--------|--------|----|------|
| 8012750 | <b>1.30/0</b>  | M10     | 1.36/1 | 5-8    | 10 | 120  |
| 8012830 | <b>1.30/1</b>  | M10     | 1.36/1 | 8-12   | 10 | 120  |
| 8012910 | <b>1.30/2</b>  | M10     | 1.36/1 | 12-15  | 10 | 130  |
| 8013130 | <b>1.30/3</b>  | M10     | 1.36/1 | 15-19  | 13 | 170  |
| 8013480 | <b>1.30/4</b>  | M10     | 1.36/1 | 19-25  | 13 | 200  |
| 8013560 | <b>1.30/4A</b> | M10     | 1.36/1 | 25-30  | 13 | 300  |
| 8013640 | <b>1.30/5</b>  | M10     | 1.36/1 | 30-35  | 13 | 400  |
| 8013720 | <b>1.30/6</b>  | M14x1,5 | 1.36/2 | 35-45  | 17 | 650  |
| 8013800 | <b>1.30/7</b>  | M14x1,5 | 1.36/2 | 45-55  | 17 | 800  |
| 8013990 | <b>1.30/8</b>  | M14x1,5 | 1.36/3 | 55-70  | 19 | 1800 |
| 8014020 | <b>1.30/9</b>  | M14x1,5 | 1.36/3 | 70-100 | 27 | 3050 |

### BALL BEARING EXTRACTED?



Fit a new one with our  
1.85 bearing installation  
tool set!



379



### 1.30/N

#### INTERNAL EXTRACTOR with reinforced shoulder

- Especially suitable for the safe and trouble-free extraction of needle roller bearings, ball bearings and brass sleeves from crankshafts
- Note: The shoulder of the shell jaw must be applied behind the bearing



| Code    | No.            | M   | mm    | mm | mm  |
|---------|----------------|-----|-------|----|-----|
| 8013050 | <b>1.30/2N</b> | M10 | 12-14 | 10 | 170 |
| 8013210 | <b>1.30/3N</b> | M10 | 14-19 | 13 | 170 |

### 1.30/10

#### INTERNAL EXTRACTOR

- Suitable for removing large ball bearings and bearing outer races
- Operation: The extraction jaws are spread by turning the nut. The newly-developed spreading system enables a simple, step-free and time-saving adjustment to the desired diameter to be made. The sharp-edged sections of the extraction jaws seat flush beneath when spread



| Code    | No.            | M      | mm     | mm | mm   |
|---------|----------------|--------|--------|----|------|
| 8014100 | <b>1.30/10</b> | G 1/2" | 60-160 | 36 | 2312 |

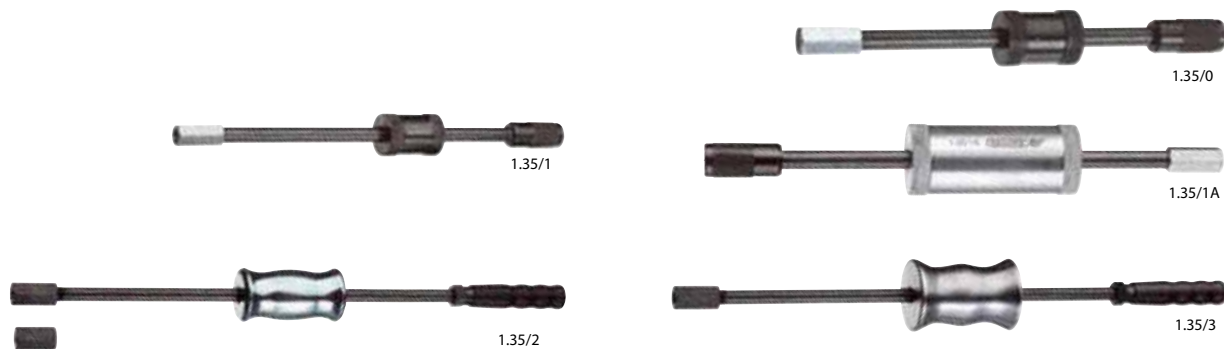
[www.gedore.com](http://www.gedore.com)



### 1.35

#### IMPACT BEARING PULLER

- Suited for the removal of small ball bearings since there is often not enough room for support braces



| Code    | No.            | for internal extractors            | M        | with adaptor | ● mm | ↳ mm | Impact weight in g | ↕ mm |
|---------|----------------|------------------------------------|----------|--------------|------|------|--------------------|------|
| 1958062 | <b>1.35/0</b>  | 1.34/1 - 1.34/4                    | M10      | -            | 13   | 180  | 200                | 400  |
| 8016070 | <b>1.35/1</b>  | 1.30/0 - 1.30/5<br>1.34/1 - 1.34/4 | M10      | -            | 13   | 230  | 200                | 450  |
| 1958070 | <b>1.35/1A</b> | 1.30/0 - 1.30/7                    | M10      | M 14x1,5     | 13   | 230  | 700                | 950  |
| 8039010 | <b>1.35/2</b>  | 1.30/0 - 1.30/9                    | M 14x1,5 | M10          | 24   | 500  | 1700               | 3200 |
| 1958089 | <b>1.35/3</b>  | 1.30/6 - 1.30/10                   | M 14x1,5 | -            | 24   | 500  | 3000               | 4200 |

### 1.36

#### SUPPORT BRACE

- Operation: The support brace is placed on the housing and the spindle screwed onto the spindle of the internal extractor. The toggle is held firmly, and the bearing extracted by tightening the nut.



| Code    | No.           | for internal extractors            | M       | ● mm | ↕ mm |
|---------|---------------|------------------------------------|---------|------|------|
| 8016580 | <b>1.36/1</b> | 1.30/0 - 1.30/5<br>1.34/1 - 1.34/4 | M10     | 27   | 750  |
| 8016660 | <b>1.36/2</b> | 1.30/6 - 1.30/7                    | M14x1,5 | 32   | 1650 |
| 8016740 | <b>1.36/3</b> | 1.30/8 - 1.30/9                    | M14x1,5 | 32   | 3000 |
| 8016820 | <b>1.36/4</b> | 1.30/10                            | G 1/2"  | 36   | 7600 |



### 1.37

#### CYLINDER LINER PULLER complete with support brace

- Wet heavy-vehicle (e.g. Mercedes Benz, MAN) cylinder liners, automobile and stationary-engine liners, and other parts may be extracted using this puller
- Operation: The spindle of the support brace is screwed into the clamping nut of the puller, and the puller inserted into the liner. The support brace is placed on to the cylinder block. Due to the newly-developed spreading system, when the spindle is turned, all three jaws spread quickly and without difficulty, until they are firmly seated beneath the edge of the liner. Then the nut of the support brace is tightened.



| Code    | No.           | M      | ○ mm   | ● mm | ↕ mm |
|---------|---------------|--------|--------|------|------|
| 8017200 | <b>1.37/2</b> | G 1/2" | 60-160 | 36   | 6.8  |



## 1.31

### INTERNAL EXTRACTOR SET

- Sets comprise the most used extractor sizes for the removal of ball bearings, bearing races, bushings, shaft seals, etc.
- In handy sheet metal case



1.31/2



1.31/0

| Code    | No.            | Contents                                                                    |     |
|---------|----------------|-----------------------------------------------------------------------------|-----|
| 8014450 | <b>1.31/0N</b> | 4 internal extractors 12-30 mm 1.30/2N -3N -4 -4A<br>1 support brace 1.36/1 | 2.6 |
| 8014530 | <b>1.31/0</b>  | 4 internal extractors 12-30 mm 1.30/2 -3 -4 -4A<br>1 support brace 1.36/1   | 2.6 |
| 8014610 | <b>1.31/1</b>  | 6 internal extractors 12-46 mm 1.30/2 - /6<br>2 support braces 1.36/1 - /2  | 6.4 |
| 8014880 | <b>1.31/2</b>  | 8 internal extractors 12-70 mm 1.30/2 - /8<br>2 support braces 1.36/1 - /2  | 9.2 |

## 1.32/1-2

### SET OF INTERNAL AND EXTERNAL EXTRACTORS

- The handy sheet metal case comprises internal extractors, support braces, pulling chucks, external extractors and stud extractors



1.32/1



1.32/2



1.32/2

| Code    | No.           | Contents                                                                                                                                                                                                           |      |
|---------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 8015260 | <b>1.32/1</b> | 6 internal extractors 12-46 mm 1.30/2 - /6, 2 support braces 1.36/1 - /2, 1 puller with extra slim legs 1.19/OXS<br>1 battery-terminal puller 1.12/02, 1 puller, 2-arm pattern 1.06/1                              | 10.4 |
| 8015340 | <b>1.32/2</b> | 8 internal extractors 12-70 mm 1.30/2 - /8, 2 support braces 1.36/1 - /2, 1 puller with extra slim legs 1.19/OXS<br>1 battery-terminal puller 1.12/02, 2 pullers, 2-arm pattern 1.06/1 /2, 1 stud extractor 1.28/1 | 19.0 |



## WHEEL-HUB PULLERS

### 1.60

#### WHEEL-HUB PULLER for cars and trucks

- For wheel stud circles up to 225 mm
- Easy to use
- Upgradeable with hydraulic spindle (see table)
- No. 1.60/H = Spare leg



| Code    | No.           | No. of legs |             |           |     |
|---------|---------------|-------------|-------------|-----------|-----|
| 8024840 | <b>1.60/3</b> | 3           | G 3/4 x 200 | 1.06/HSP2 | 4.3 |
| 8110840 | <b>1.60/4</b> | 4           | G 3/4 x 200 | 1.06/HSP2 | 4.9 |
| 8024920 | <b>1.60/5</b> | 5           | G 3/4 x 200 | 1.06/HSP2 | 5.3 |
| 8110920 | <b>1.60/H</b> | 1           |             |           | 0.5 |

### 1.60/HSP

#### WHEEL-HUB PULLER for cars and trucks, hydraulic (not illustrated)

- For wheel stud circles up to 225 mm
- Easy to use

| Code    | No.                | No. of legs |  |           |     |
|---------|--------------------|-------------|--|-----------|-----|
| 8015690 | <b>1.60/3-HSP2</b> | 3           |  | 1.06/HSP2 | 4.5 |
| 8015770 | <b>1.60/4-HSP2</b> | 4           |  | 1.06/HSP2 | 5.4 |
| 8015850 | <b>1.60/5-HSP2</b> | 5           |  | 1.06/HSP2 | 5.8 |

### 1.61

#### WHEEL-HUB PULLER for cars and trucks

- For wheel stud circles up to 250 mm
- Easy to use
- Upgradeable with hydraulic spindle (see table)
- No. 1.61/H = Spare leg



| Code    | No.           | No. of legs |             |           |     |
|---------|---------------|-------------|-------------|-----------|-----|
| 8111060 | <b>1.61/3</b> | 3           | G 3/4 x 200 | 1.06/HSP2 | 4.7 |
| 8111140 | <b>1.61/4</b> | 4           | G 3/4 x 200 | 1.06/HSP2 | 5.2 |
| 8025300 | <b>1.61/5</b> | 5           | G 3/4 x 200 | 1.06/HSP2 | 5.8 |
| 8111220 | <b>1.61/H</b> | 1           |             |           | 0.6 |

### 1.61/HSP

#### WHEEL-HUB PULLER for cars and trucks, hydraulic

- For wheel stud circles up to 250 mm
- Easy to use
- With wheel stud protection using rotating nut apertures that always lie flat to the hub



| Code    | No.                | No. of legs |  |           |     |
|---------|--------------------|-------------|--|-----------|-----|
| 8015930 | <b>1.61/3-HSP2</b> | 3           |  | 1.06/HSP2 | 5.4 |
| 8016150 | <b>1.61/4-HSP2</b> | 4           |  | 1.06/HSP2 | 6.2 |
| 8016230 | <b>1.61/5-HSP2</b> | 5           |  | 1.06/HSP2 | 6.9 |

### 1.62

#### WHEEL-HUB PULLER for trucks

- For wheel stud circles up to 350 mm
- With wheel stud protection using rotating nut apertures that always lie flat to the hub
- This tool may also be used with the hydraulic aid without requiring a reduction bushing
- Upgradeable with hydraulic spindle (see table)



| Code    | No.           | No. of legs |           |           |      |
|---------|---------------|-------------|-----------|-----------|------|
| 8026030 | <b>1.62/8</b> | 8           | G 1 x 310 | 1.06/HSP3 | 12.6 |
| 8111220 | <b>1.61/H</b> | 1           |           |           | 0.6  |

### 1.62/HSP

#### WHEEL-HUB PULLER for trucks, hydraulic (not illustrated)

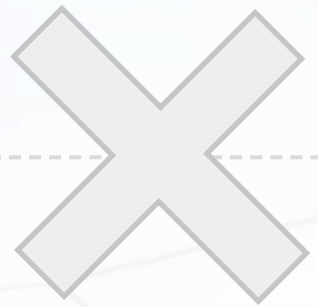
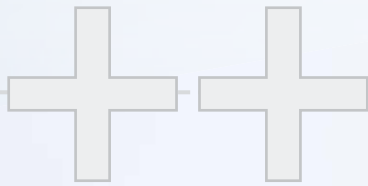
- For wheel stud circles up to 350 mm
- With wheel stud protection using rotating nut apertures that always lie flat to the hub

| Code    | No.                | No. of legs |  |           |      |
|---------|--------------------|-------------|--|-----------|------|
| 8016310 | <b>1.62/8-HSP3</b> | 8           |  | 1.06/HSP3 | 13.6 |



# BALL JOINT PULLER

## 1.73 - PARTNER TO RELY ON FOR YOUR VEHICLE



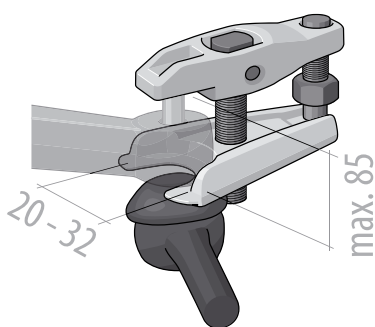
Body and lever of the 1.73 ball joint puller are drop-forged from 31CrV3 tempering steel and then hardened and tempered. In this way, the two major parts acquire the needed hardness and stability.

Using the spindle, the ball joint puller is brought up to the required clamping height.

The set bolt applies that force needed to press out the ball joint. To withstand a load like this, the thread is rolled followed by hardening and tempering the spindle.

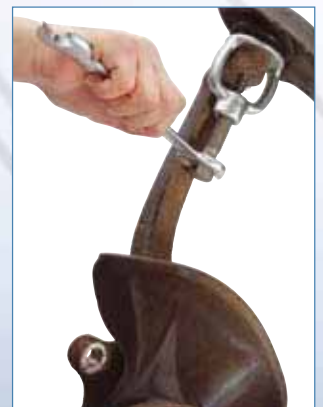


Article 1.73 comes in two sizes which together with their dimensions cover the most common pressure/force situations. Other dimensions are covered by articles 1.72 and 1.74 - the compact 1.72 can be made use of, for instance, in extremely tight spots.



### SAFETY-RELEVANT

Forces amounting to several tons in weight act on the puller during the extracting operation! Drop-forged components "announce" possible overloading by bending. This is due to the fibre course of the material during forging permitting a certain flexibility of the components ahead of fracturing - an extremely "healthy" property, in fact!





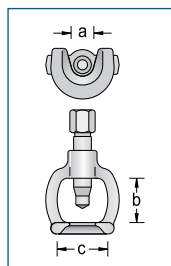


## BALL JOINT PULLERS

### 1.72

#### BALL JOINT PULLER

- For the simple and damage-free removal of ball pins on track rods and push rods



| Code    | No.            | a  | b   | c  | mm            | mm | mm  |
|---------|----------------|----|-----|----|---------------|----|-----|
| 8030300 | <b>1.72/1</b>  | 18 | 35  | 40 | M 14x1,5 x 50 | 17 | 0.3 |
| 8030490 | <b>1.72/2</b>  | 23 | 45  | 50 | M 14x1,5 x 50 | 17 | 0.4 |
| 8030570 | <b>1.72/3</b>  | 27 | 56  | 60 | M 18x1,5 x 80 | 19 | 0.7 |
| 8030650 | <b>1.72/4</b>  | 37 | 78  | 75 | G 1/2 x 110   | 22 | 1.7 |
| 2183323 | <b>1.72/4A</b> | 40 | 80  | 80 | G 1/2 x 140   | 22 | 2.2 |
| 2183331 | <b>1.72/5A</b> | 46 | 100 | 90 | G 3/4 x 160   | 27 | 2.8 |

### 1.73

#### UNIVERSAL BALL JOINT PULLER

- For removing ball joints on cars and trucks



| Code    | No.           | mm | Clamping height | Fork depth | mm  |
|---------|---------------|----|-----------------|------------|-----|
| 8030810 | <b>1.73/1</b> | 23 | 65              | 24         | 0.7 |
| 8033240 | <b>1.73/3</b> | 32 | 85              | 28         | 2.5 |

### 1.74

#### UNIVERSAL BALL JOINT PULLER

- For removing the ball joint journals on track rods, stabilizers, etc.
- Simple operation due to slender lower part and 2-stage lever position



| Code    | No.           | mm | Clamping height | Fork depth | mm  |
|---------|---------------|----|-----------------|------------|-----|
| 8085200 | <b>1.74/1</b> | 20 | 12-50           | 35         | 1.4 |
| 8085390 | <b>1.74/2</b> | 20 | 50-80           | 35         | 1.7 |

## OIL FILTER HOOK

### 1.75

#### OIL FILTER HOOK 3-arm pattern

- For removing firmly seated oil filters
- With 3/8" female square drive and adaptor 17 mm external

3/8"



| Code    | No.           | mm     | mm  |
|---------|---------------|--------|-----|
| 8117420 | <b>1.75/1</b> | 60-120 | 0.7 |

### 1.76

#### CARTRIDGE SPANNER 3-arm pattern

- For tightening and removing
- Especially suitable for removing firmly seated granulate cartridges of compressed air dryers on HGV, e.g. Mercedes Benz, MAN, etc.
- Great clamping reach (from 95 to 165 mm)
- The GEDORE cartridge spanner is also usable as oil filter key
- Zinc-plated
- Drive 1/2"

12.5

1/2"



| Code    | No.           | "   | "    | mm     | mm    |
|---------|---------------|-----|------|--------|-------|
| 1523651 | <b>1.76/1</b> | 1/2 | 12.5 | 95-165 | 1.420 |





## 1.64

### DRIVE SHAFT PULLER

- ✓ Suitable for drive shafts with 4 or 5 apertures
- ✓ For wheel stud circles 100-155 mm with 6 mm screws
- ✓ For tapped holes up to max. M14
- ✓ **Operation:** The puller is attached to the drive shaft flange using the nuts of the wheel bolts. By striking the spindle head with the sliding hammer, the shaft may be removed easily and without damage.



| Code    | No.           | mm | mm  |
|---------|---------------|----|-----|
| 8026700 | <b>1.64/1</b> | 24 | 4.5 |

## 1.65

### PULLING FLANGE heavy-duty pattern

- ✓ For wheels and discs with tapped holes up to M16
- ✓ The flange is fitted with slots for hole pitches of 180, 120, and 90 degrees
- ✓ Additional holes may be drilled to render the flange suitable for other pitches and aperture diameters
- ✓ A very sturdy model for heavy parts and the highest requirements



| Code    | No.           | mm            | mm   |
|---------|---------------|---------------|------|
| 8027000 | <b>1.65/1</b> | G 1.1/4 x 270 | 16.0 |

## 1.66

### PULLING FLANGE

- ✓ For wheels and discs with tapped holes up to M10
- ✓ The flange is fitted with slots for hole pitches of 180 and 120 degrees
- ✓ Steering wheel puller no. 1.66/11 with one pair each of long (135 mm) and short (85 mm) hooks and a protective cap for the thread of the steering column



| Code    | No.            | mm         | mm |
|---------|----------------|------------|----|
| 8027510 | <b>1.66/1</b>  | M 12 x 110 | 14 |
| 8027780 | <b>1.66/11</b> | M 12 x 110 | 14 |

## 1.67

### STEERING-WHEEL PULLER for cars

- ✓ Contains 1 pair of short legs, 1 pair of long legs, and a protective cap for the thread of the steering column



| Code    | No.           | Clamping reach | Leg length up to | mm             | mm |
|---------|---------------|----------------|------------------|----------------|----|
| 8028240 | <b>1.67/1</b> | 35-90          | 135              | M 14x1,5 x 150 | 17 |

## 1.68

### STEERING-WHEEL PULLER

- ✓ Featuring 1 pulling ring each with 100 mm and 150 mm diameter for 3-spoke and 4-spoke steering wheels
- ✓ To protect the steering-wheels, the pulling rings are fitted with sliding rubber sleeves

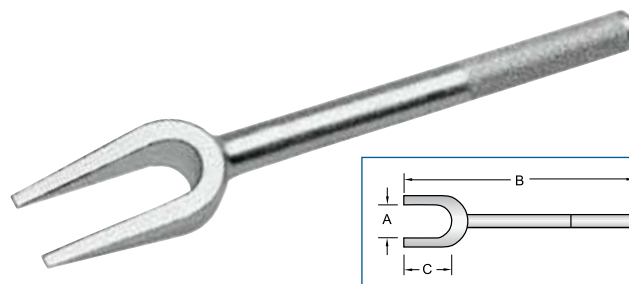


| Code    | No.           | Leg length | mm         | mm |
|---------|---------------|------------|------------|----|
| 8028750 | <b>1.68/1</b> | 120        | M 18 x 170 | 19 |

## 1.70

### DISMANTLING AND ASSEMBLY FORK

- ✓ For fast removal of track rod and push rod ends, steering arms, and other steering parts
- ✓ Also suitable for removing shock absorbers and other separating and dismantling work
- ✓ The forks are suitable for use in the most confined spaces
- ✓ Hammer blows on the handle ends are used to separate the parts



| Code    | No.           | A  | B   | C  | mm  |
|---------|---------------|----|-----|----|-----|
| 8029210 | <b>1.70/1</b> | 18 | 340 | 80 | 0.8 |
| 8029480 | <b>1.70/2</b> | 23 | 340 | 80 | 0.9 |
| 8029560 | <b>1.70/3</b> | 29 | 350 | 90 | 1.1 |
| 8029640 | <b>1.70/4</b> | 40 | 350 | 90 | 1.2 |
| 8085040 | <b>1.70/5</b> | 45 | 355 | 95 | 1.2 |



## TRACK ALIGNMENT GAUGE

### 3.01

#### TRACK ALIGNMENT GAUGE

- For inside measurement
- Suitable for all vehicle types
- With simple, telescopic length adjustment
- Immediate track-difference readings may be taken from the millimetre scale
- Extensive measurement range from 835 to 1500 mm, and with extensions up to 2100 mm
- Track difference measurable from 0-35 mm
- Notes on Use: The vehicle to be tested must be standing on level ground. The front wheels must be set for running straight ahead and have the same tyre pressure. The play in the steering linkage must be removed by pressing the front wheels apart. The track alignment gauge must be set roughly at the axle centre-line between the front tyres in such a manner that the two chain ends contact the ground. The scale is set a "0". The car is allowed to roll forward approx. one half turn of the wheel, until the chain ends again contact the ground. The track difference may then be read off on the scale.



| Code    | No.           | Description                                      | Measurement range mm |     |
|---------|---------------|--------------------------------------------------|----------------------|-----|
| 8033080 | <b>3.01</b>   | Track alignment gauge 835-1500 mm                | 835-1500             | 1.9 |
| 8033160 | <b>3.01/V</b> | Extension for track alignment gauge 1500-2100 mm | 1500-2100            | 0.6 |



#### NOTES ON USE 3.01

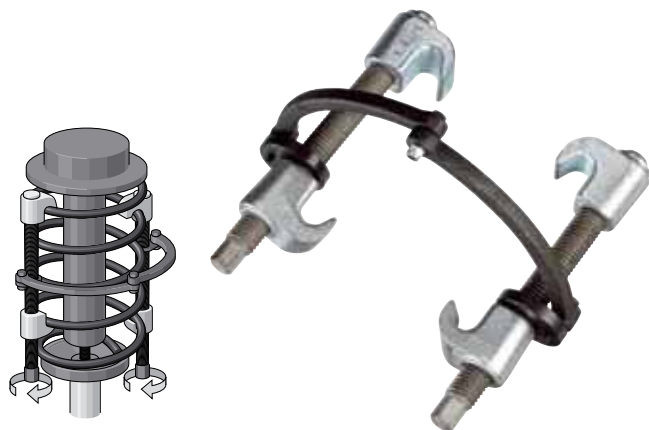
The vehicle to be tested must be standing on level ground. The front wheels must be set for running straight ahead and have the same tyre pressure. The play in the steering linkage must be removed by pressing the front wheels apart. The track alignment gauge must be set roughly at the axle centre-line between the front tyres in such a manner that the two chain ends contact the ground. The scale is set a "0". The car is allowed to roll forward approx. one half turn of the wheel, until the chain ends again contact the ground. The track difference may then be read off on the scale.

## SPRING COMPRESSOR

### 1.78/S

#### SAFETY COIL SPRING COMPRESSOR

- For the safe installation and removal of coil springs with a diameter of 110-180 mm
- Safety note:** When the spindles are tightened evenly, the clamping heads grip the coils tightly, rendering sideways slip impossible
- VPA-GS-tested safety



| Code    | No.            | Clamping reach |     |
|---------|----------------|----------------|-----|
| 8031110 | <b>1.78/S1</b> | 140            | 1.8 |
| 8031380 | <b>1.78/S2</b> | 240            | 2.2 |
| 8031460 | <b>1.78/S3</b> | 340            | 2.6 |

### 1.78/P

#### UNIVERSAL COIL SPRING COMPRESSOR

- For MacPherson suspension strut and transverse link axles with spring diameters of 110-180 mm
- The hooks are drop forged
- The wide support rests are matched to the coil spring pitch
- VPA-GS-tested safety
- PK = with plastic cap



| Code    | No.             | Clamping reach | max. t |     |
|---------|-----------------|----------------|--------|-----|
| 8111300 | <b>1.78/P1</b>  | 240            | 3.5    | 2.6 |
| 8031030 | <b>1.78/PK1</b> | 240            | 3.5    | 2.5 |



### 1.79

#### SPRING SPREADER

- Especially designed for VAG exhaust installations, where the pipe is not held by bolts to the exhaust manifold, but clamped on using springs



| Code    | No.           |     |
|---------|---------------|-----|
| 8112540 | <b>1.79/1</b> | 0.4 |

### 1.91

#### TYRE REMOVING TOOL

- For breaking the adhesion between truck tyres and wheel rims



| Code    | No.         | ± mm |     |
|---------|-------------|------|-----|
| 8032270 | <b>1.91</b> | 300  | 2.0 |

## ACCESSORIES

### 1.26

#### NUT SPLITTER

- For splitting jammed or stripped nuts without damaging the bolt thread
- Suitable for nuts up to property class 6



| Code    | No.           | for nuts          | mm            | mm | mm  |
|---------|---------------|-------------------|---------------|----|-----|
| 8009880 | <b>1.26/1</b> | 10-17 mm, M6-M10  | M 14x1,5 x 37 | 17 | 0.3 |
| 8009610 | <b>1.26/2</b> | 17-24 mm, M10-M16 | M 14x1,5 x 37 | 17 | 0.3 |
| 8010030 | <b>1.26/3</b> | 24-36 mm, M16-M24 | M 22x1,5 x 70 | 24 | 1.1 |

| Code    | No.            | Description                  | mm  |
|---------|----------------|------------------------------|-----|
| 2017016 | <b>1.26/M1</b> | Spare chisel for 1.26/1 + /2 | 0.0 |
| 2017024 | <b>1.26/M3</b> | Spare chisel for 1.26/3      |     |

### 1.26/K

#### NUT SPLITTER SET

- For nuts from size 10 mm (M6) to size 36 mm (M24) including spare chisel
- In plastic case with Check-Tool insert



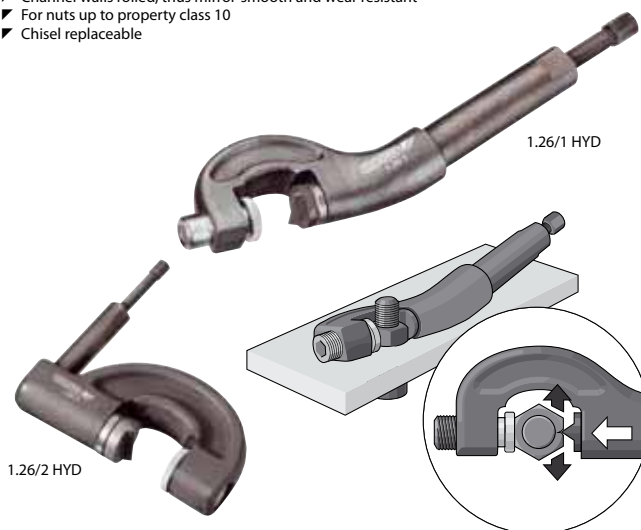
| Code    | No.             | Contents        | mm  |
|---------|-----------------|-----------------|-----|
| 2017008 | <b>1.26/K-3</b> | as below stated | 2.5 |

| Code    | No.            | Description                    | Qty. |
|---------|----------------|--------------------------------|------|
| 8009880 | <b>1.26/1</b>  | Nut splitter 10-17 mm, M6-M10  | 1    |
| 8009610 | <b>1.26/2</b>  | Nut splitter 17-24 mm, M10-M16 | 1    |
| 8010030 | <b>1.26/3</b>  | Nut splitter 24-36 mm, M16-M24 | 1    |
| 2017016 | <b>1.26/M1</b> | Spare chisel for 1.26/1 + /2   | 2    |
| 2017024 | <b>1.26/M3</b> | Spare chisel for 1.26/3        | 1    |

### 1.26/HYD

#### NUT SPLITTER hydraulic

- With strong chisel, additionally induction hardened
- At the cutting edge for breakage resistance
- The chamfer at the chisel's edge improves the splitting effect and prevents breakage
- With smooth chisel function
- Channel walls rolled, thus mirror-smooth and wear resistant
- For nuts up to property class 10
- Chisel replaceable



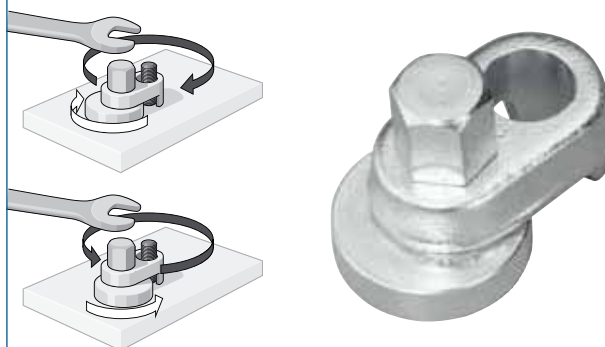
| Code    | No.               | for nuts          | mm | max. t | mm  |
|---------|-------------------|-------------------|----|--------|-----|
| 8009450 | <b>1.26/1 HYD</b> | 7-22 mm, M4-M14   | 12 | 5.0    | 0.8 |
| 8009530 | <b>1.26/2 HYD</b> | 22-36 mm, M14-M24 | 12 | 13.0   | 3.4 |

| Code    | No.                | Description                 | mm  |
|---------|--------------------|-----------------------------|-----|
| 2018586 | <b>1.26/M1 HYD</b> | Spare chisel for 1.26/1 HYD | 0.0 |
| 2043920 | <b>1.26/M2 HYD</b> | Spare chisel for 1.26/2 HYD | 0.1 |

### 1.28

#### STUD EXTRACTOR

- For inserting and removing studs
- Even suitable for extremely short stud ends



| Code    | No.           | Ø-Stud | mm | mm  |
|---------|---------------|--------|----|-----|
| 8010620 | <b>1.28/1</b> | 6-13   | 19 | 0.2 |
| 8010700 | <b>1.28/2</b> | 8-19   | 19 | 0.3 |
| 8010890 | <b>1.28/3</b> | 19-25  | 19 | 0.4 |

### 1.28/4

#### STUD EXTRACTOR

- For inserting and removing studs
- Even suitable for extremely short stud ends



| Code    | No.           | Ø-Stud | mm | mm  |
|---------|---------------|--------|----|-----|
| 1465031 | <b>1.28/4</b> | 5-26   | 19 | 0.6 |


**1.44**
**PULLING CHUCK**

- For removing the inner races of dynamos, magnetos, motors, and other machine parts
- Simple operation by tightening the cap nut



| Code    | No.           | Clamping reach | Clamping depth | ⌀   |
|---------|---------------|----------------|----------------|-----|
| 8022040 | <b>1.44/1</b> | 5-32           | 125            | 1.4 |

**1.90**
**FLANGE SEPARATORS (pair)**

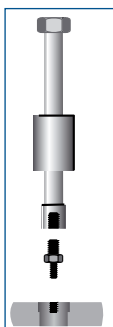
- For separating DIN standard flanges on pipes when changing seals and doing maintenance work
- For Ø 80-250 mm and screw threads M16-M24
- Use: Always use the separators in pairs and attach them to opposite sides of the flange. When the two spindles are turned alternately, the flanges will be separated from one another evenly. When the spindles are turned back alternately, this guarantees a perfect fitting of the flanges in their original position. Always use in pairs! Press in opposite directions at 180°!



| Code    | No.           | for screw threads | Ø      | ⌀   |
|---------|---------------|-------------------|--------|-----|
| 1596403 | <b>1.90/1</b> | M16 - M24         | 80-250 | 5.5 |

**1.81/1 + 2**
**SET OF THREADED INSERTS for 1-hole uses**

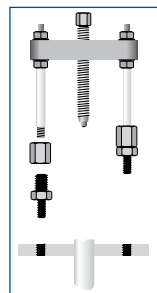
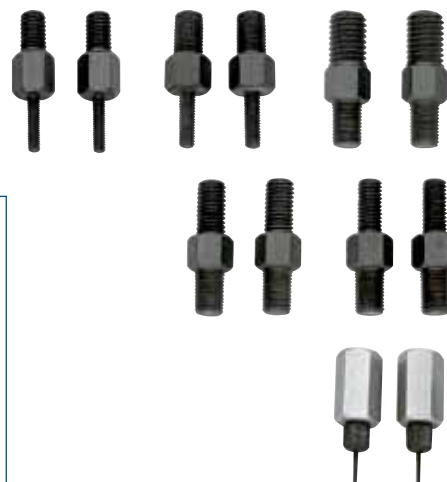
- The threaded inserts make the removal of threaded caps, for example, possible, when these possess one threaded hole
- No. 1.81/1: For slide hammers 1.35/1, 1.35/2, threaded support 1.36/1
- No. 1.81/2: For slide hammers 1.35/2, 1.36/2, threaded support 1.36/3



| Code    | No.           | Connecting thread                                                                        | ⌀   |
|---------|---------------|------------------------------------------------------------------------------------------|-----|
| 1120727 | <b>1.81/1</b> | M10 - M4 M10 - M5 M10 - M6<br>M10 - M8 M10 - M10 M10 - M12                               | 340 |
| 1120743 | <b>1.81/2</b> | M14x1,5 - M8 M14x1,5 - M10<br>M14x1,5 - M12 M14x1,5 - M14<br>M14x1,5 - M16 M14x1,5 - M18 | 490 |

**1.81/10 + 20**
**SET OF THREADED INSERTS for 1-hole and 2-hole uses, 2 each**

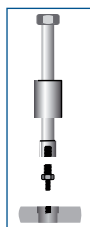
- The threaded inserts make the removal of threaded caps, for example, possible, when these possess one or two threaded holes
- No. 1.81/10: For separator puller 1.38/0, 1.38/1
- No. 1.81/20: For separator puller 1.38/2



| Code    | No.            | Connecting thread                                                                        | ⌀    |
|---------|----------------|------------------------------------------------------------------------------------------|------|
| 1120735 | <b>1.81/10</b> | M10 - M4 M10 - M5 M10 - M6<br>M10 - M8 M10 - M10 M10 - M12                               | 670  |
| 1120751 | <b>1.81/20</b> | M14x1,5 - M8 M14x1,5 - M10<br>M14x1,5 - M12 M14x1,5 - M14<br>M14x1,5 - M16 M14x1,5 - M18 | 1222 |

**1.81/K**
**SET OF THREADED INSERTS for 1-hole uses**

- The threaded inserts make the removal of threaded caps, for example, possible, when these possess one threaded hole
- No. 1.81/K-1: With slide hammer 1.35/1, rod 230 mm and impact weight 200 g
- No. 1.81/K-12: With slide hammer 1.35/1A, rod 230 mm and impact weight 700 g, adaptor M14x1,5
- No. 1.81/K-112: With slide hammer 1.35/1A, rod 230 mm, impact weight 200 + 700 g, adaptor M14x1,5
- In robust plastic case, 275 x 229 x 83 mm



| Code    | No.               | Connecting thread                                                                                       | ⌀    |
|---------|-------------------|---------------------------------------------------------------------------------------------------------|------|
| 1936549 | <b>1.81/K-1</b>   | M10 - M4 M10 - M5 M10 - M6<br>M10 - M8 M10 - M10 M10 - M12                                              | 1000 |
| 1936557 | <b>1.81/K-12</b>  | M10 - M4 M10 - M5 M10 - M6<br>M10 - M8 M10 - M10 M10 - M12<br>M14x1,5 - M14 M14x1,5 - M16 M14x1,5 - M18 | 1830 |
| 2142902 | <b>1.81/K-112</b> | M10 - M4 M10 - M5 M10 - M6<br>M10 - M8 M10 - M10 M10 - M12<br>M14x1,5 - M14 M14x1,5 - M16 M14x1,5 - M18 | 2030 |


**1.35 • 1.36**

**397**



## ADD-ON SYSTEMS

### 1.18/1.19

#### PULLER SET

- This perforated panel offers place for 12 pullers of the series 1.18 and 1.19



| Code    | No.              | Contents 1 each                                                                                                                                                          |      |
|---------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 1824007 | <b>1.18/1.19</b> | 2-arm Puller<br>1.18/1 1.18/2 1.18/3<br>3-arm Puller<br>1.19/1 1.19/2 1.19/3<br>2-arm-Fan puller<br>1.18/0 1.18/01 1.18/02<br>3-arm Fan puller<br>1.19/0 1.19/01 1.19/02 | 21.0 |

### 2.10

#### AUTOMOBILE WORKSHOP SET Add-on system

- Clearly arranged module system
- Everything at hand on perforated wall-board



| Code    | No.         | Contents        |      |
|---------|-------------|-----------------|------|
| 1088696 | <b>2.10</b> | as below stated | 13.3 |

| Code    | No.                | Description                                     | Qty. |
|---------|--------------------|-------------------------------------------------|------|
| 1076469 | <b>106/103</b>     | Cross-beam, 2-arm pattern, 140 mm               | 1    |
| 1076981 | <b>107/103</b>     | Cross-beam, 3-arm pattern, 140 mm               | 1    |
| 1120514 | <b>106/A-100-N</b> | Pulling leg, 100 mm                             | 3    |
| 1175343 | <b>106/S100</b>    | Pulling leg, slim pattern, 100 mm               | 3    |
| 8003840 | <b>1.12/02</b>     | Battery-terminal puller, 2-arm pattern 60x40 mm | 1    |
| 8009610 | <b>1.26/2</b>      | Nut splitter 17-24 mm, M10-M16                  | 1    |
| 8010700 | <b>1.28/2</b>      | Stud extractor 8-19 mm                          | 1    |
| 8029480 | <b>1.70/2</b>      | Dismantling and assembly fork 23 mm             | 1    |
| 8030810 | <b>1.73/1</b>      | Universal ball joint puller 65 mm / 20 mm       | 1    |
| 8117420 | <b>1.75/1</b>      | Oil filter hook 3-arm pattern 60-120 mm         | 1    |

### 2.20

#### TRUCK WORKSHOP SET Add-on system

- Clearly arranged module system
- Everything at hand on perforated wall-board



| Code    | No.         | Contents        |      |
|---------|-------------|-----------------|------|
| 1088718 | <b>2.20</b> | as below stated | 23.3 |

| Code    | No.                | Description                       | Qty. |
|---------|--------------------|-----------------------------------|------|
| 1076612 | <b>106/2A03</b>    | Cross-beam, 2-arm pattern, 260 mm | 1    |
| 1077023 | <b>107/2A03</b>    | Cross-beam, 3-arm pattern, 260 mm | 1    |
| 1120530 | <b>106/B-150-N</b> | Pulling leg, 150 mm               | 3    |
| 1175475 | <b>106/S220</b>    | Pulling leg, slim pattern, 220 mm | 3    |
| 1123947 | <b>106/B-300-N</b> | Pulling leg, 300 mm               | 3    |
| 1084593 | <b>1.2106210</b>   | Spindle 22 mm, G 1/2", 210 mm     | 1    |
| 8116100 | <b>1.06/HSP1</b>   | Hydraulic pressure spindle 10 t   | 1    |
| 8019840 | <b>1.40/2</b>      | Bearing separator 22-115 mm       | 1    |

### 2.30

#### INDUSTRIAL PULLING SET Add-on system

- For the assembly of the tried and tested 1.06 and 1.07 versions
- Using this set, you will be able to assemble more than 12 of the usual versions with high-speed clamping legs, including hydraulic spindle, in seconds



| Code    | No.         | Contents        |      |
|---------|-------------|-----------------|------|
| 1393014 | <b>2.30</b> | as below stated | 19.4 |

| Code    | No.                | Description                       | Qty. |
|---------|--------------------|-----------------------------------|------|
| 1076469 | <b>106/103</b>     | Cross-beam, 2-arm pattern, 140 mm | 1    |
| 1076485 | <b>106/1A03</b>    | Cross-beam, 2-arm pattern, 180 mm | 1    |
| 1076590 | <b>106/203</b>     | Cross-beam, 2-arm pattern, 220 mm | 1    |
| 1076612 | <b>106/2A03</b>    | Cross-beam, 2-arm pattern, 260 mm | 1    |
| 1076981 | <b>107/103</b>     | Cross-beam, 3-arm pattern, 140 mm | 1    |
| 1077007 | <b>107/1A03</b>    | Cross-beam, 3-arm pattern, 180 mm | 1    |
| 1077015 | <b>107/203</b>     | Cross-beam, 3-arm pattern, 220 mm | 1    |
| 1077023 | <b>107/2A03</b>    | Cross-beam, 3-arm pattern, 260 mm | 1    |
| 1084488 | <b>1.1406140</b>   | Spindle 17 mm, M14x1.5, 140 mm    | 1    |
| 1084593 | <b>1.2106210</b>   | Spindle 22 mm, G 1/2", 210 mm     | 1    |
| 8116100 | <b>1.06/HSP1</b>   | Hydraulic pressure spindle 10 t   | 1    |
| 1178199 | <b>106/A-100-E</b> | Quick-release pulling leg 100 mm  | 3    |
| 1178253 | <b>106/B-150-E</b> | Quick-release pulling leg 150 mm  | 3    |



## 2.30-B

### INDUSTRIAL PULLING SET WITH LEG BRAKE Add-on system

- For the assembly of the tried and tested 1.06 and 1.07 versions
- Using this set, you will be able to assemble more than 12 of the usual versions with high-speed clamping legs, including hydraulic spindle, in seconds
- 2-arm cross-beams with scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- Leg brake prevents unintentional leg slipping. The leg can be slid along the cross-beam at the push of a button



| Code    | No.           | Contents        |      |
|---------|---------------|-----------------|------|
| 2017032 | <b>2.30-B</b> | as below stated | 19.4 |

| Code    | No.                | Description                               | Qty. |
|---------|--------------------|-------------------------------------------|------|
| 1076469 | <b>106/103</b>     | Cross-beam, 2-arm pattern, 140 mm         | 1    |
| 1076485 | <b>106/1A03</b>    | Cross-beam, 2-arm pattern, 180 mm         | 1    |
| 1076590 | <b>106/203</b>     | Cross-beam, 2-arm pattern, 220 mm         | 1    |
| 1076612 | <b>106/2A03</b>    | Cross-beam, 2-arm pattern, 260 mm         | 1    |
| 1076981 | <b>107/103</b>     | Cross-beam, 3-arm pattern, 140 mm         | 1    |
| 1077007 | <b>107/1A03</b>    | Cross-beam, 3-arm pattern, 180 mm         | 1    |
| 1077015 | <b>107/203</b>     | Cross-beam, 3-arm pattern, 220 mm         | 1    |
| 1077023 | <b>107/2A03</b>    | Cross-beam, 3-arm pattern, 260 mm         | 1    |
| 1084488 | <b>1.1406140</b>   | Spindle 17 mm, M14x1.5, 140 mm            | 1    |
| 1084593 | <b>1.2106210</b>   | Spindle 22 mm, G 1/2", 210 mm             | 1    |
| 8116100 | <b>1.06/HSP1</b>   | Hydraulic pressure spindle 10 t           | 1    |
| 1970534 | <b>106/A-100-B</b> | Pulling leg, all steel, leg brake, 100 mm | 3    |
| 1970542 | <b>106/B-150-B</b> | Pulling leg, all steel, leg brake, 150 mm | 3    |

## 2.40

### PULLING SET FOR CONSTRUCTION MACHINES Add-on system

- For the assembly of the robust and handy strap-pattern pulling tools 1.14 and 1.15
- With this set, you will be able to assemble 10 of the usual flexible strap-pattern pulling tools from the range 1.14/1.15, including the new hydraulic spindle



| Code    | No.         | Contents        |      |
|---------|-------------|-----------------|------|
| 1393030 | <b>2.40</b> | as below stated | 24.3 |

| Code    | No.              | Description                     | Qty. |
|---------|------------------|---------------------------------|------|
| 1077856 | <b>114/204</b>   | Head                            | 1    |
| 1077910 | <b>114/304</b>   | Head                            | 1    |
| 1078054 | <b>115/204</b>   | Head                            | 1    |
| 1078070 | <b>115/304</b>   | Head                            | 1    |
| 1084569 | <b>1.1806200</b> | Spindle 19 mm, M18x1.5, 200 mm  | 1    |
| 1084631 | <b>1.2106250</b> | Spindle 22 mm, G 1/2", 250 mm   | 1    |
| 8116100 | <b>1.06/HSP1</b> | Hydraulic pressure spindle 10 t | 1    |
| 1077821 | <b>114/201</b>   | Pulling leg, 210 mm             | 3    |
| 1077899 | <b>114/301</b>   | Pulling leg, 260 mm             | 3    |
| 1077953 | <b>114/401</b>   | Pulling leg, 390 mm             | 3    |
| 1077872 | <b>114/208</b>   | Strap                           | 6    |
| 1077937 | <b>114/308</b>   | Strap                           | 12   |

Deviant packing units see article description.

## 2.50

### SET OF INTERNAL AND EXTERNAL EXTRACTORS

- Suitable for various applications of external or internal extraction
- Internal extractors for bores with Ø 5 - 55 mm. To use in connection with impact bearing puller or counter-support braces
- External extractors with various clamping depths up to 130 mm
- Separators and pullers incl. extension rods, ideal for removing tightly-seated or thin-walled parts for outer diameter 5 - 115 mm



| Code    | No.         | Contents        |      |
|---------|-------------|-----------------|------|
| 2017040 | <b>2.50</b> | as below stated | 29.0 |

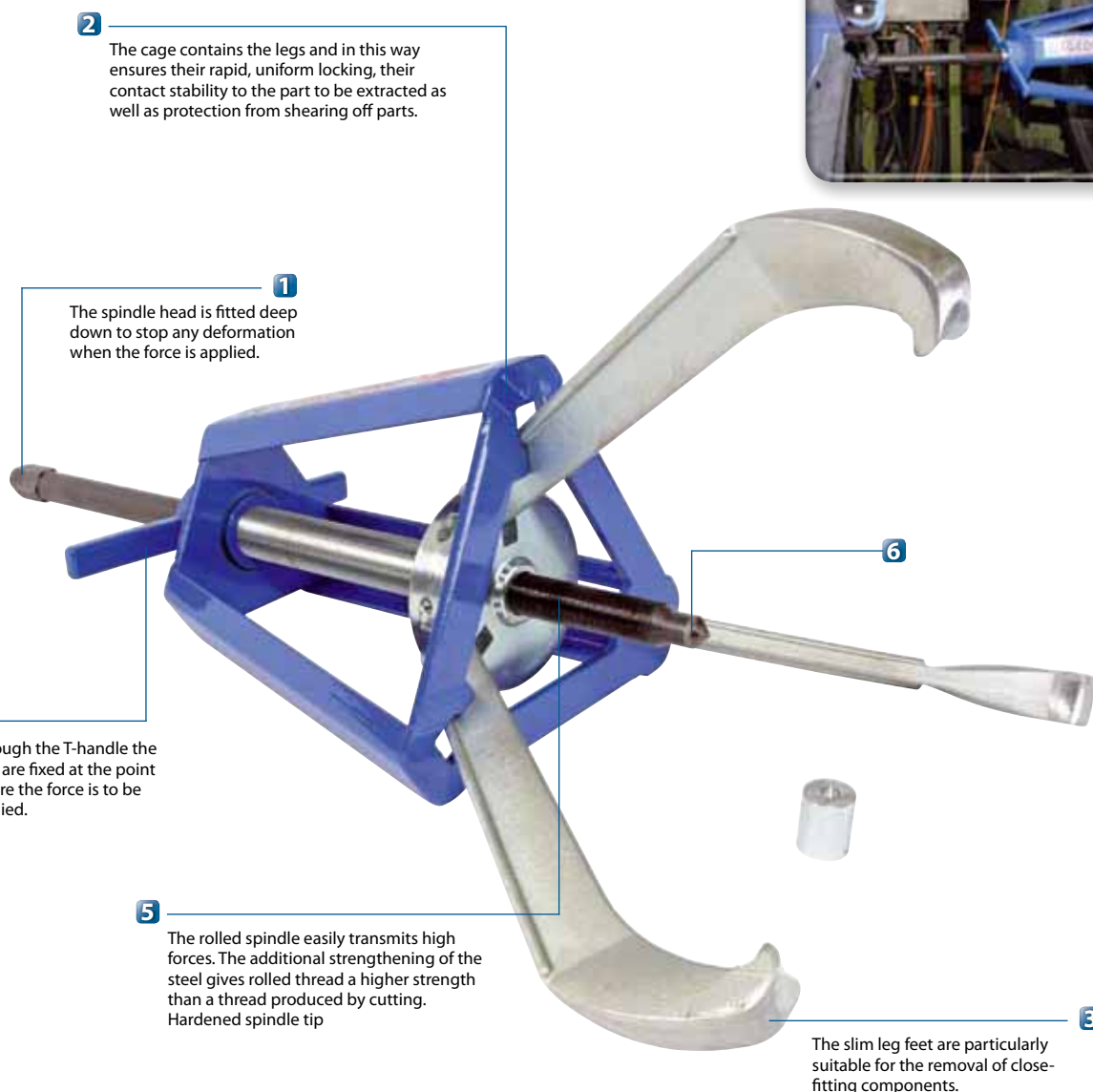
| Code    | No.              | Description                                          | Qty. |
|---------|------------------|------------------------------------------------------|------|
| 8012750 | <b>1.30/0</b>    | Internal extractor 5-8 mm                            | 1    |
| 8012830 | <b>1.30/1</b>    | Internal extractor 8-12 mm                           | 1    |
| 8012910 | <b>1.30/2</b>    | Internal extractor 12-15 mm                          | 1    |
| 8013130 | <b>1.30/3</b>    | Internal extractor 15-19 mm                          | 1    |
| 8013480 | <b>1.30/4</b>    | Internal extractor 19-25 mm                          | 1    |
| 8013560 | <b>1.30/4A</b>   | Internal extractor 25-30 mm                          | 1    |
| 8013640 | <b>1.30/5</b>    | Internal extractor 30-35 mm                          | 1    |
| 8013720 | <b>1.30/6</b>    | Internal extractor 35-45 mm                          | 1    |
| 8013800 | <b>1.30/7</b>    | Internal extractor 45-55 mm                          | 1    |
| 1958070 | <b>1.35/1A</b>   | Impact bearing puller 230 mm, 700 g                  | 1    |
| 8039010 | <b>1.35/2</b>    | Impact bearing puller 500 mm, 1,7 kg                 | 1    |
| 8016580 | <b>1.36/1</b>    | Support brace                                        | 1    |
| 8016660 | <b>1.36/2</b>    | Support brace                                        | 1    |
| 1868152 | <b>1.04/HP1A</b> | Universal puller HIGH POWER 2-arm pattern 130x100 mm | 1    |
| 1628410 | <b>1.13/00</b>   | Battery-terminal puller, 3-arm pattern 70x80 mm      | 1    |
| 8084580 | <b>1.23/15</b>   | Puller 80x85 mm                                      | 1    |
| 8017550 | <b>1.38/0</b>    | Separator puller                                     | 1    |
| 8017710 | <b>1.38/2</b>    | Separator puller                                     | 1    |
| 8018440 | <b>1.38/AV</b>   | Extension rod M10                                    | 1    |
| 8018520 | <b>1.38/CV</b>   | Extension rod M14x1.5                                | 1    |
| 8019680 | <b>1.40/0</b>    | Bearing separator 5-60 mm                            | 1    |
| 8019840 | <b>1.40/2</b>    | Bearing separator 22-115 mm                          | 1    |





# ++ MANUAL HEAVY-DUTY PULLERS -----

- The 2- and 3-arm pullers are suitable for the removal of ball bearings, pulleys, wheels, and other close-fitting components
- Cage and T-handle enable easy and fast operation - opening, closing, locking and aligning of the legs by simply turning the T-handle
- The product range offers a wide variety of clamping widths and depths, and load limits



## The cage is the key for safe pulling...

... as through the cage, the legs are fixed at the point where the force is to be applied - thus the legs cannot slip off, even on a small contact surface.

Depending on the model, different accessories complete the extractor usefully: Spindle protection, spindle extension, transport cart and extended legs for larger clamping widths and depths can simplify the work and upgrade the puller for more pulling situations.



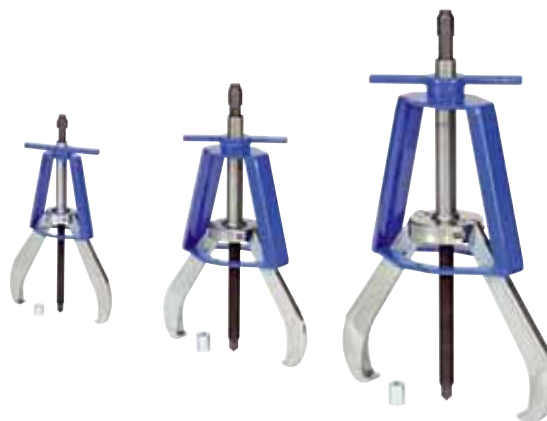
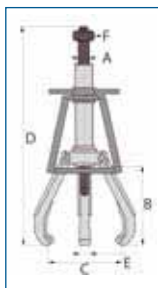
**All spare parts and accessories for manual pullers are listed on page 416**



## 8.06

### MANUAL HEAVY-DUTY PULLER 2-arm pattern

- Suitable for the removal of ball bearings, pulleys, wheels, and other close-fitting components
- Cage and T-handle enable easy and fast operation - opening, closing, locking and aligning of the legs by simply turning the T-handle
- The product range offers a wide variety of clamping widths and depths, and load limits
- Legs drop forged
- Through the cage, the legs are fixed at the point where the force is to be applied - thus the legs cannot slip off, even on a small contact surface
- Upgradeable with spindle extension and extended legs



| Code    | No.           | Ø spindle<br>A | max. clamping reach<br>B | max. clamping width<br>B | max. t | max. torque N-m | Total height<br>D | Width of hooked foot<br>E | Actuating Hexagon<br>F | optional long legs |      |
|---------|---------------|----------------|--------------------------|--------------------------|--------|-----------------|-------------------|---------------------------|------------------------|--------------------|------|
| 2207176 | <b>8.06/6</b> | 19,0           | 246                      | 25-381                   | 12     | 237             | 518.4             | 25.4                      | 24.0                   | 806/601L           | 5.9  |
| 2207311 | <b>8.06/7</b> | 28,5           | 305                      | 64-457                   | 22     | 642             | 692.2             | 32.0                      | 30.0                   | 806/701L           | 16.8 |
| 2207435 | <b>8.06/8</b> | 30,0           | 356                      | 76-635                   | 31     | 1085            | 813.8             | 38.0                      | 30.0                   | ---                | 25.3 |

## 8.07

### MANUAL HEAVY-DUTY PULLER 3-arm pattern

- Suitable for the removal of ball bearings, pulleys, wheels, and other close-fitting components
- Cage and T-handle enable easy and fast operation - opening, closing, locking and aligning of the legs by simply turning the T-handle
- The product range offers a wide variety of clamping widths and depths, and load limits
- Legs drop forged
- Through the cage, the legs are fixed at the point where the force is to be applied - thus the legs cannot slip off, even on a small contact surface
- Upgradeable with spindle extension and extended legs

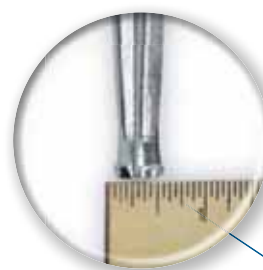
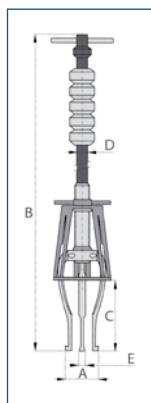


| Code    | No.           | Ø spindle<br>A | max. clamping reach<br>B | max. clamping width<br>B | max. t | max. torque N-m | Total height<br>D | Width of hooked foot<br>E | Actuating Hexagon<br>F | optional long legs | optional extra long legs |      |
|---------|---------------|----------------|--------------------------|--------------------------|--------|-----------------|-------------------|---------------------------|------------------------|--------------------|--------------------------|------|
| 2206870 | <b>8.07/4</b> | 15,8           | 152                      | 13-178                   | 9      | 176             | 338.3             | 19.0                      | 19.0                   | ---                | ---                      | 3.2  |
| 2206994 | <b>8.07/5</b> | 19,0           | 203                      | 19-305                   | 15     | 299             | 412.8             | 22.2                      | 24.0                   | 806/601            | 806/601L                 | 5.9  |
| 2207079 | <b>8.07/6</b> | 19,0           | 246                      | 25-381                   | 18     | 373             | 518.4             | 25.4                      | 24.0                   | 806/601L           | ---                      | 6.8  |
| 2207206 | <b>8.07/7</b> | 28,5           | 305                      | 64-457                   | 27     | 811             | 692.2             | 32.0                      | 30.0                   | 806/701L           | ---                      | 19.5 |
| 2207354 | <b>8.07/8</b> | 30,0           | 356                      | 76-635                   | 36     | 1152            | 813.8             | 38.0                      | 30.0                   | ---                | ---                      | 29.5 |

## 8.31/1

### MANUAL HEAVY-DUTY INTERNAL PULLER SET 3-arm pattern

- Suitable for removing tightly-fitting ball bearings, seals, bushings, etc.
- Wide clamping range: two leg sets 3 pieces each
- Two slide hammers: 1.13 kg and 2.27 kg
- Cage and T-handle enable easy and fast operation - opening, closing, locking and aligning of the legs by simply turning the T-handle
- Legs drop forged
- Through the cage, the legs are fixed at the point where the force is to be applied - thus the legs cannot slip off, even on a small contact surface



| Code    | No.           | Clamping width max.<br>short legs A | Clamping width max.<br>long legs A | Clamping depth max.<br>short legs C | Clamping depth max.<br>long legs C | Height<br>short legs B | Height long<br>legs B | Ø Spindle<br>D | Width of<br>hooked foot<br>E |
|---------|---------------|-------------------------------------|------------------------------------|-------------------------------------|------------------------------------|------------------------|-----------------------|----------------|------------------------------|
| 2207478 | <b>8.31/1</b> | 100                                 | 133                                | 120                                 | 170                                | 736.6                  | 787.4                 | 13,2           | 8.4                          |



# ++ HYDRAULIC HEAVY-DUTY PULLERS

- ▣ The 2- and 3-arm pullers are suitable for the removal of ball bearings, pulleys, wheels, and other close-fitting components
- ▣ Cage and T-handle enable easy and fast operation - opening, closing, locking and aligning of the legs by simply turning the T-handle
- ▣ The product range offers a wide variety of clamping widths and depths, and load limits
- ▣ Various delivery options: Loose puller or complete set including hydraulic cylinder, pump and pressure hose

**4**

The handle is fastened at the hydraulic cylinder and is for transporting, attaching and hanging up the puller.


**1**

Through the T-handle, the legs are fixed at the point where the force is to be applied.

**2**

The cage contains the legs and in this way ensures their rapid, uniform locking, their contact stability to the part to be extracted as well as protection from shearing off parts.

**3**

The slim leg feet are particularly suitable for the removal of close-fitting components.

**5**

The pressure pads allow the cylinder to be equipped with various tips for centred and non-centred shafts.



**All spare parts and accessories for hydraulic pullers are listed on page 416**

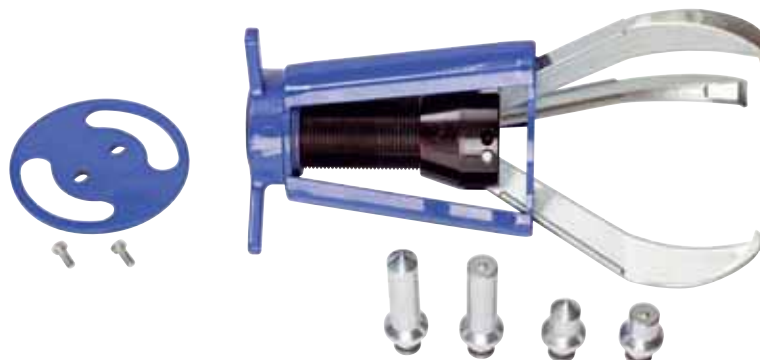


**Technical information about cylinder and pumps are listed on page 414 - 415**



**8.07/HYD****HYDRAULIC HEAVY-DUTY PULLER 3-arm pattern**

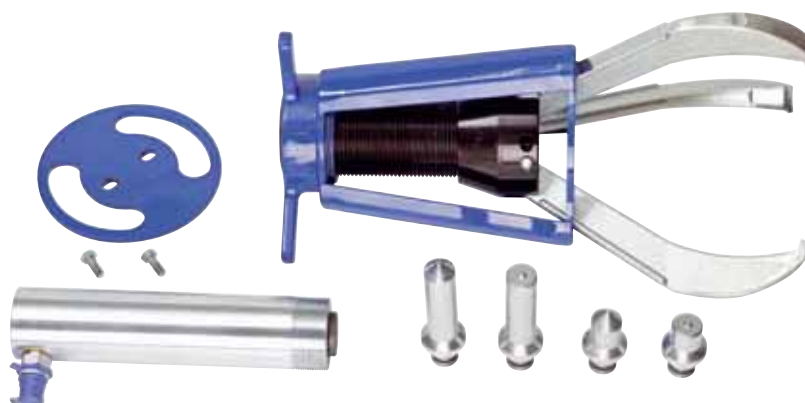
- ✔ Suitable for the removal of ball bearings, pulleys, wheels, and other close-fitting components
- ✔ Cage and T-handle enable easy and fast operation - opening, closing, locking and aligning of the legs by simply turning the T-handle
- ✔ The product range offers a wide variety of clamping widths and depths, and load limits
- ✔ Legs drop forged
- ✔ Through the cage, the legs are fixed at the point where the force is to be applied - thus the legs cannot slip off, even on a small contact surface
- ✔ Scope of delivery: Puller, lid with screws and various pressure pads for centred and non-centred shafts
- ✔ Upgradeable with extended legs



| Code    | No.               | max. t | max. clamping reach | max. clamping width | optional long legs | optional extra long legs |
|---------|-------------------|--------|---------------------|---------------------|--------------------|--------------------------|
| 2207605 | <b>8.07/5 HYD</b> | 9      | 203                 | 19-305              | 806/601            | 806/601L                 |
| 2207702 | <b>8.07/6 HYD</b> | 13     | 254                 | 25-315              | 806/H601L          | ---                      |
| 2207796 | <b>8.07/7 HYD</b> | 22     | 305                 | 64-457              | 806/701L           | ---                      |
| 2207915 | <b>8.07/8 HYD</b> | 45     | 356                 | 76-620              | ---                | ---                      |

**8.07/HYD-Z****HYDRAULIC HEAVY-DUTY PULLER 3-arm pattern, with hydraulic cylinder**

- ✔ Suitable for the removal of ball bearings, pulleys, wheels, and other close-fitting components
- ✔ Cage and T-handle enable easy and fast operation - opening, closing, locking and aligning of the legs by simply turning the T-handle
- ✔ The product range offers a wide variety of clamping widths and depths, and load limits
- ✔ Legs drop forged
- ✔ Through the cage, the legs are fixed at the point where the force is to be applied - thus the legs cannot slip off, even on a small contact surface
- ✔ Scope of delivery: Puller, hydraulic cylinder, lid with screws and various pressure pads for centred and non-centred shafts
- ✔ Upgradeable with extended legs



| Code    | No.                 | included in delivery      | max. t | max. bar in set | max. clamping reach | max. clamping width | optional long legs | optional extra long legs |
|---------|---------------------|---------------------------|--------|-----------------|---------------------|---------------------|--------------------|--------------------------|
| 2209608 | <b>8.07/5 HYD-Z</b> | Hydraulic cylinder 8.51/5 | 9      | 560             | 203                 | 19-305              | 806/601            | 806/601L                 |
| 2209616 | <b>8.07/6 HYD-Z</b> | Hydraulic cylinder 8.51/6 | 13     | 560             | 254                 | 25-315              | 806/H601L          | ---                      |
| 2209624 | <b>8.07/7 HYD-Z</b> | Hydraulic cylinder 8.51/7 | 22     | 670             | 305                 | 64-457              | 806/701L           | ---                      |
| 2209632 | <b>8.07/8 HYD-Z</b> | Hydraulic cylinder 8.51/8 | 45     | 620             | 356                 | 76-620              | ---                | ---                      |

## 8.07/HYD-M

### HYDRAULIC HEAVY-DUTY PULLER 3-arm pattern, with hydraulic cylinder and manual pump

- ✓ Suitable for the removal of ball bearings, pulleys, wheels, and other close-fitting components
- ✓ Cage and T-handle enable easy and fast operation - opening, closing, locking and aligning of the legs by simply turning the T-handle
- ✓ The product range offers a wide variety of clamping widths and depths, and load limits
- ✓ Legs drop forged
- ✓ Through the cage, the legs are fixed at the point where the force is to be applied - thus the legs cannot slip off, even on a small contact surface
- ✓ Scope of delivery: Puller, hydraulic cylinder, lid with screws and various pressure pads for centred and non-centred shafts, high-pressure hose and manual pump
- ✓ Upgradeable with extended legs



| Code    | No.                  | included in delivery                             | max. t | max. bar in set | max. clamping reach | max. clamping width | optional long legs | optional extra long legs |
|---------|----------------------|--------------------------------------------------|--------|-----------------|---------------------|---------------------|--------------------|--------------------------|
| 2209640 | <b>8.07/5 HYD-M1</b> | Hydraulic cylinder 8.51/5 and manual pump 8.52/1 | 9      | 560             | 203                 | 19-305              | 806/601            | 806/601L                 |
| 2209659 | <b>8.07/5 HYD-M2</b> | Hydraulic cylinder 8.51/5 and manual pump 8.52/2 | 9      | 560             | 203                 | 19-305              | 806/601            | 806/601L                 |
| 2209705 | <b>8.07/6 HYD-M1</b> | Hydraulic cylinder 8.51/6 and manual pump 8.52/1 | 13     | 560             | 254                 | 25-315              | 806/H601L          | ---                      |
| 2209713 | <b>8.07/6 HYD-M2</b> | Hydraulic cylinder 8.51/6 and manual pump 8.52/2 | 13     | 560             | 254                 | 25-315              | 806/H601L          | ---                      |
| 2209772 | <b>8.07/7 HYD-M2</b> | Hydraulic cylinder 8.51/7 and manual pump 8.52/2 | 22     | 670             | 305                 | 64-457              | 806/701L           | ---                      |
| 2209829 | <b>8.07/8 HYD-M2</b> | Hydraulic cylinder 8.51/8 and manual pump 8.52/2 | 45     | 620             | 356                 | 76-620              | ---                | ---                      |

## 8.07/HYD-P

### HYDRAULIC HEAVY-DUTY PULLER 3-arm pattern, with hydraulic cylinder and air hydraulic pump

- ✓ Suitable for the removal of ball bearings, pulleys, wheels, and other close-fitting components
- ✓ Cage and T-handle enable easy and fast operation - opening, closing, locking and aligning of the legs by simply turning the T-handle
- ✓ The product range offers a wide variety of clamping widths and depths, and load limits
- ✓ Legs drop forged
- ✓ Through the cage, the legs are fixed at the point where the force is to be applied - thus the legs cannot slip off, even on a small contact surface
- ✓ Scope of delivery: Puller, hydraulic cylinder, lid with screws and various pressure pads for centred and non-centred shafts, high-pressure hose and air hydraulic pump
- ✓ Upgradeable with extended legs



| Code    | No.                  | included in delivery                                    | max. t | max. bar in set | max. clamping reach | max. clamping width | optional long legs | optional extra long legs |
|---------|----------------------|---------------------------------------------------------|--------|-----------------|---------------------|---------------------|--------------------|--------------------------|
| 2209667 | <b>8.07/5 HYD-P1</b> | Hydraulic cylinder 8.51/5 and air hydraulic pump 8.53/1 | 9      | 560             | 203                 | 19-305              | 806/601            | 806/601L                 |
| 2209675 | <b>8.07/5 HYD-P2</b> | Hydraulic cylinder 8.51/5 and air hydraulic pump 8.53/2 | 9      | 560             | 203                 | 19-304              | 806/601            | 806/601L                 |
| 2209721 | <b>8.07/6 HYD-P1</b> | Hydraulic cylinder 8.51/6 and air hydraulic pump 8.53/1 | 13     | 560             | 254                 | 25-315              | 806/H601L          | ---                      |
| 2209748 | <b>8.07/6 HYD-P2</b> | Hydraulic cylinder 8.51/6 and air hydraulic pump 8.53/2 | 13     | 560             | 254                 | 25-315              | 806/H601L          | ---                      |
| 2209780 | <b>8.07/7 HYD-P1</b> | Hydraulic cylinder 8.51/7 and air hydraulic pump 8.53/1 | 22     | 670             | 305                 | 64-457              | 806/701L           | ---                      |
| 2209799 | <b>8.07/7 HYD-P2</b> | Hydraulic cylinder 8.51/7 and air hydraulic pump 8.53/2 | 22     | 670             | 305                 | 64-457              | 806/701L           | ---                      |
| 2209837 | <b>8.07/8 HYD-P2</b> | Hydraulic cylinder 8.51/8 and air hydraulic pump 8.53/2 | 45     | 620             | 356                 | 76-620              | ---                | ---                      |



## 8.07/HYD-E

### HYDRAULIC HEAVY-DUTY PULLER 3-arm pattern, with hydraulic cylinder and motor pump

- ✔ Suitable for the removal of ball bearings, pulleys, wheels, and other close-fitting components
- ✔ Cage and T-handle enable easy and fast operation - opening, closing, locking and aligning of the legs by simply turning the T-handle
- ✔ The product range offers a wide variety of clamping widths and depths, and load limits
- ✔ Legs drop forged
- ✔ Through the cage, the legs are fixed at the point where the force is to be applied - thus the legs cannot slip off, even on a small contact surface
- ✔ Scope of delivery: Puller, hydraulic cylinder, lid with screws and various pressure pads for centred and non-centred shafts, high-pressure hose and motor pump
- ✔ Upgradeable with extended legs



| Code    | No.                  | included in delivery                            | max. t | max. bar in set | max. clamping reach | max. clamping width | optional long legs | optional extra long legs |
|---------|----------------------|-------------------------------------------------|--------|-----------------|---------------------|---------------------|--------------------|--------------------------|
| 2209683 | <b>8.07/5 HYD-E1</b> | Hydraulic cylinder 8.51/5 and motor pump 8.54/1 | 9      | 560             | 203                 | 19-305              | 806/601            | 806/601L                 |
| 2209691 | <b>8.07/5 HYD-E2</b> | Hydraulic cylinder 8.51/5 and motor pump 8.54/2 | 9      | 560             | 203                 | 19-305              | 806/601            | 806/601L                 |
| 2209756 | <b>8.07/6 HYD-E1</b> | Hydraulic cylinder 8.51/6 and motor pump 8.54/1 | 13     | 560             | 254                 | 25-315              | 806/H601L          | ---                      |
| 2209764 | <b>8.07/6 HYD-E2</b> | Hydraulic cylinder 8.51/6 and motor pump 8.54/2 | 13     | 560             | 254                 | 25-315              | 806/H601L          | ---                      |
| 2209802 | <b>8.07/7 HYD-E1</b> | Hydraulic cylinder 8.51/7 and motor pump 8.54/1 | 22     | 670             | 305                 | 64-457              | 806/701L           | ---                      |
| 2209810 | <b>8.07/7 HYD-E2</b> | Hydraulic cylinder 8.51/7 and motor pump 8.54/2 | 22     | 670             | 305                 | 64-457              | 806/701L           | ---                      |
| 2209845 | <b>8.07/8 HYD-E2</b> | Hydraulic cylinder 8.51/8 and motor pump 8.54/2 | 45     | 620             | 356                 | 76-620              | ---                | ---                      |

## 8.01

### TRANSPORT CART

- ✔ For fast and handy transport as well as convenient storage of a hydraulic puller and its accessories
- ✔ Delivery without puller and accessories



| Code    | No.         |      |
|---------|-------------|------|
| 2208059 | <b>8.01</b> | 29.0 |



All spare parts and accessories for hydraulic pullers are listed on page 416



Technical information about cylinder and pumps are listed on page 414 - 415







## HYDRAULIK COMPONENTS

### 8.51

#### HYDRAULIC CYLINDER for heavy-duty pullers

- Single-acting universal cylinder in compact design
- With spring return, large stroke length and high-quality guide belts
- The construction of the polyurethane wiper prevents that dirt can get between the piston and cylinder wall
- Piston rod of the hydraulic cylinder is especially protected against corrosion
- Delivery includes non-drip fitting and dust covers



| Code    | No.           | Working pressure bar | Power kN | Power t | Stroke | Oil volume cm <sup>3</sup> |      |
|---------|---------------|----------------------|----------|---------|--------|----------------------------|------|
| 2211467 | <b>8.51/5</b> | 700                  | 111      | 11      | 155    | 247                        | 4.0  |
| 2211475 | <b>8.51/6</b> | 700                  | 166      | 17      | 254    | 603                        | 8.5  |
| 2211483 | <b>8.51/7</b> | 700                  | 232      | 24      | 362    | 1201                       | 17.0 |
| 2211491 | <b>8.51/8</b> | 700                  | 496      | 51      | 337    | 2389                       | 35.0 |

### 8.52

#### MANUAL PUMP for heavy-duty pullers

- With gauge for precise and controlled working
- Convenient and fast working in two-stage operation
- Needle valve for controlled discharge
- Robust aluminium tank
- Built-in safety valve
- Easy oil filling
- Return ports on all models
- Supporting feet with mounting holes
- Delivery includes non-drip coupler and dust cover



|         |               | Working pressure bar | effective oil volume cm <sup>3</sup> | Pump stroke high pressure cm <sup>3</sup> | Pump stroke low pressure cm <sup>3</sup> | Pump power at max. working pressure N | Gauge type | P Pressure connection | R Flyback connection |        |
|---------|---------------|----------------------|--------------------------------------|-------------------------------------------|------------------------------------------|---------------------------------------|------------|-----------------------|----------------------|--------|
| Code    | No.           |                      |                                      |                                           |                                          |                                       |            |                       |                      |        |
| 2211505 | <b>8.52/1</b> | 700                  | 1000                                 | 2                                         | 20                                       | 320                                   | 850/033    | 8.1                   | G 1/4"               | G 1/4" |
| 2211513 | <b>8.52/2</b> | 700                  | 2400                                 | 2                                         | 20                                       | 320                                   | 850/033    | 9.9                   | G 1/4"               | G 1/4" |

### 8.53

#### AIR HYDRAULIC PUMP for heavy-duty pullers

- One-stage pump
- Working pressure up to 700 bar
- Delivery includes gauge, non-drip coupler and dust cover
- No. 8.53/1: Compact design, due to a rubber bellow in the tank useable in all positions, with oil gauge glass and silencer
- No. 8.53/2: With remote control for moving out, holding and discharging, cable length: 2.5 m



| Code    | No.           | Working pressure bar | effective oil volume cm <sup>3</sup> | Power cm <sup>3</sup> /min | necessary air pressure |      | P Pressure connection | R Flyback connection | Air connection |
|---------|---------------|----------------------|--------------------------------------|----------------------------|------------------------|------|-----------------------|----------------------|----------------|
| 2211521 | <b>8.53/1</b> | 700                  | 2100                                 | 1.000-200                  | 7,0-12,0               | 9.6  | G 1/4"                | G 1/4"               | NPT 1/4"       |
| 2211548 | <b>8.53/2</b> | 700                  | 9000                                 | 1.000-200                  | 6,5-12,0               | 18.4 | G 1/4"                | ---                  | G 1/4"         |

### 8.54/1

#### MOTOR PUMP COMPACT for heavy-duty pullers

- Two-stage, portable motor pump in very compact design
- Useable in all positions
- Electric motor, 230 V, 50 Hz, 0.35 kW
- 3/3 way electromagnetic valve with pressure holding function for hydraulic cylinder
- Remote control with cable, 2.3 m long, control voltage 12 V
- Automatic switching: low / high pressure
- Carrying strap
- Delivery includes non-drip coupler and dust cover



| Code    | No.           | Working pressure bar | Flow rate high pressure l/min | Flow rate low pressure l/min | Valve type | Oil volume cm <sup>3</sup> |     |
|---------|---------------|----------------------|-------------------------------|------------------------------|------------|----------------------------|-----|
| 2211556 | <b>8.54/1</b> | 700                  | 0.2                           | 2.0                          | 3/3 way    | 1600                       | 9.5 |

### 8.54/2

#### MOTOR PUMP for heavy-duty pullers

- Two-stage, lightweight motor pump with plastic housing
- 3/2 way electromagnetic valve for single-acting hydraulic cylinder
- Remote control with cable, 2 m long, control voltage 24 V
- Automatic switching: low / high pressure
- Delivery includes non-drip coupler and dust cover



| Code    | No.           | Working pressure bar | Working pressure MPa | Flow rate high pressure l/min | Flow rate low pressure l/min | Valve type | Oil volume cm <sup>3</sup> |      |
|---------|---------------|----------------------|----------------------|-------------------------------|------------------------------|------------|----------------------------|------|
| 2211564 | <b>8.54/2</b> | 700                  | 70                   | 0.33                          | 3.3                          | 3/2 way    | 3790                       | 15.0 |

### 850/X33

#### GAUGE AND GAUGE HOLDER

- Fluid-damped
- Two scales (bar / psi)
- Measuring range from 0 to 1000 bar (15000 psi)
- No. 850/033: Gauge for manual pumps no. 8.52
- No. 850/133: Gauge for air hydraulic and motor pumps (no. 8.53 and no. 8.54)
- Please order separately gauge holder (no. 850/125) for gauge no. 850/133

| Code    | No.            | Measuring range          | Unit              |
|---------|----------------|--------------------------|-------------------|
| 2273403 | <b>850/033</b> | 0-1000 bar / 0-15000 psi | 50 bar / 1000 psi |
| 2211610 | <b>850/133</b> | 0-1000 bar / 0-15000 psi | 50 bar / 1000 psi |
| 2211602 | <b>850/125</b> |                          |                   |

### 8.55/3

#### HIGH-PRESSURE HOSE

- Oil resistant, synthetic material with steel reinforcements
- Capacity up to 800 bar working pressure
- Length 3 m, further lengths available on request
- Delivery includes non-drip coupler, fitting and dust covers



| Code    | No.           | Working pressure bar |
|---------|---------------|----------------------|
| 2211572 | <b>8.55/3</b> | 800                  |


**850/18X**
**COUPLER AND FITTING**

- With automatic locking mechanism
- Delivery includes dust cover



| Code    | No.            | Working pressure MPa | Working pressure bar | Internal thread | External thread | A  | B    | Ø mm |
|---------|----------------|----------------------|----------------------|-----------------|-----------------|----|------|------|
| 2211580 | <b>850/188</b> | 100                  | 1000                 | G 1/4"          | ---             | 59 | 27.0 | 24   |
| 2211599 | <b>850/189</b> | 100                  | 1000                 | ---             | G 1/4"          | 37 | 24.5 | 22   |

**8.06/580-155**
**PRESSURE PAD SET for puller 8.07/5 HYD + 8.07/6 HYD**


| Code    | No.                 | Contents       | 1.4 |
|---------|---------------------|----------------|-----|
| 2207680 | <b>8.06/580-155</b> | consisting of: |     |

| Code    | No.                | Description                     |
|---------|--------------------|---------------------------------|
| 2209853 | <b>806/580-151</b> | Cylinder tip 25 x 25 mm flat    |
| 2209861 | <b>806/580-152</b> | Cylinder tip 25 x 76 mm flat    |
| 2209888 | <b>806/580-153</b> | Cylinder tip 25 x 38 mm conical |
| 2209896 | <b>806/580-154</b> | Cylinder tip 25 x 89 mm conical |

**8.06/780-257**
**PRESSURE PAD SET for puller 8.07/7 HYD**


| Code    | No.                 | Contents       | 6.8 |
|---------|---------------------|----------------|-----|
| 2207885 | <b>8.06/780-257</b> | consisting of: |     |

| Code    | No.                | Description                      |
|---------|--------------------|----------------------------------|
| 2209918 | <b>806/780-251</b> | Cylinder tip 38 x 57 mm flat     |
| 2209926 | <b>806/780-252</b> | Cylinder tip 51 x 64 mm flat     |
| 2209934 | <b>806/780-253</b> | Cylinder tip 51 x 102 mm flat    |
| 2209942 | <b>806/780-254</b> | Cylinder tip 38 x 64 mm conical  |
| 2209950 | <b>806/780-255</b> | Cylinder tip 51 x 64 mm conical  |
| 2209969 | <b>806/780-256</b> | Cylinder tip 51 x 114 mm conical |

**8.06/880-508**
**PRESSURE PAD SET for puller 8.07/8 HYD**


| Code    | No.                 | Contents       | 13.6 |
|---------|---------------------|----------------|------|
| 2208040 | <b>8.06/880-508</b> | consisting of: |      |

| Code    | No.                | Description                      |
|---------|--------------------|----------------------------------|
| 2209977 | <b>806/880-501</b> | Cylinder tip 51 x 76 mm flat     |
| 2209985 | <b>806/880-502</b> | Cylinder tip 70 x 76 mm flat     |
| 2209993 | <b>806/880-503</b> | Cylinder tip 70 x 127 mm flat    |
| 2210002 | <b>806/880-504</b> | Cylinder tip 51 x 95 mm conical  |
| 2210010 | <b>806/880-505</b> | Cylinder tip 70 x 95 mm conical  |
| 2210029 | <b>806/880-506</b> | Cylinder tip 70 x 140 mm conical |
| 2210037 | <b>806/880-507</b> | Adaptor 70 x 57 mm               |



**All spare parts and accessories for hydraulic pullers are listed on page 416**

## Accessories and spare parts for manual heavy-duty pullers

| Spare parts 2-arm        | 8.06/6                  | 8.06/7                  | 8.06/8                  |
|--------------------------|-------------------------|-------------------------|-------------------------|
| (1) Cage                 | 806/631                 | 806/731                 | 806/831                 |
| (2) Legs                 | 806/601                 | 806/701                 | 806/801                 |
| (3) Head                 | 806/604                 | 806/704                 | 806/804                 |
| (4) Pin                  | 806/518                 | 806/718                 | 806/718                 |
| (5) T-handle             | 806/509                 | 806/709                 | 806/809                 |
| (6) Spindle              | 806/606                 | 806/706                 | 806/806                 |
| (7) Circlip              | 806/591                 | 806/791                 | 806/891                 |
| (8) Spindle protection   | 806/510                 | 806/710                 | 806/710                 |
| <b>Accessories 2-arm</b> | max. spanwidth / -depth | max. spanwidth / -depth | max. spanwidth / -depth |
| Leg long                 | 806/601L                | 38-559 / 406            | 806/701L 38-762 / 508   |
| Spindle extension        | 806/516                 |                         |                         |

| Spare parts 3-arm        | 8.07/4                  | 8.07/5                  | 8.07/6                  | 8.07/7                  | 8.07/8                  |
|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| (1) Cage                 | 807/431                 | 807/531                 | 807/631                 | 807/731                 | 807/831                 |
| (2) Legs                 | 806/401                 | 806/501                 | 806/601                 | 806/701                 | 806/801                 |
| (3) Head                 | 807/404                 | 807/504                 | 807/604                 | 807/704                 | 807/804                 |
| (4) Pin                  | 806/418                 | 806/518                 | 806/518                 | 806/718                 | 806/718                 |
| (5) T-handle             | 806/409                 | 806/509                 | 806/509                 | 806/709                 | 806/809                 |
| (6) Spindle              | 806/406                 | 806/506                 | 806/606                 | 806/706                 | 806/806                 |
| (7) Circlip              | 806/491                 | 806/591                 | 806/591                 | 806/791                 | 806/891                 |
| (8) Spindle protection   | 806/410                 | 806/510                 | 806/510                 | 806/710                 | 806/710                 |
| <b>Accessories 3-arm</b> | max. spanwidth / -depth | max. spanwidth / -depth | max. spanwidth / -depth | max. spanwidth / -depth | max. spanwidth / -depth |
| Leg long                 | 806/601                 | 57-381 / 154            | 806/601L                | 38-559 / 406            | 806/701L 38-762 / 508   |
| Leg extra long           | 806/601L                | 38-559 / 406            |                         |                         |                         |
| Spindle extension        | 806/416                 | 806/516                 | 806/516                 |                         |                         |

## Accessories and spare parts for hydraulic heavy-duty pullers

| Spare parts        | 8.07/5 HYD              | 8.07/6 HYD              | 8.07/7 HYD              | 8.07/8 HYD              |
|--------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| (1) Cage           | 807/H531                | 807/H631                | 807/H731                | 807/H831                |
| (2) Legs           | 806/501                 | 806/H601                | 806/701                 | 806/H801                |
| (3) Head           | 807/H504                | 807/H604                | 807/H704                | 807/H804                |
| (4) Pin            | 806/H518                | 806/H618                | 806/718                 | 806/H818                |
| (5) T-handle       | 806/H509                | 806/H609                | 806/H709                | 806/H809                |
| (6) Spindle        | 806/H591                | 806/H691                | 806/H791                | 806/H891                |
| (7) Circlip        | 806/H511                | 806/H511                | 806/H711                | 807/H811                |
| Lid                | 8.06/580-155            | 8.06/580-155            | 8.06/780-257            | 8.06/880-508            |
| <b>Accessories</b> | max. spanwidth / -depth | max. spanwidth / -depth | max. spanwidth / -depth | max. spanwidth / -depth |
| Leg long           | 806/601                 | 58-401 / 249            | 806/H601L 38-559 / 406  | 806/701L 38-762 / 508   |
| Leg extra long     | 806/601L                | 38-559 / 406            |                         |                         |
|                    |                         |                         | 8.01                    | 8.01                    |



### SAFETY NOTES

- ▀ The design of GEDORE heavy-duty pullers provides for a maximum degree of safety.
- ▀ Even so, do bear in mind that extremely high forces are involved when pulling and so go about the operation carefully!
- ▀ Do observe the following safety instructions when pulling is involved and make them known to those carrying out the work.

...5.10 as a protection from shearing off components...

