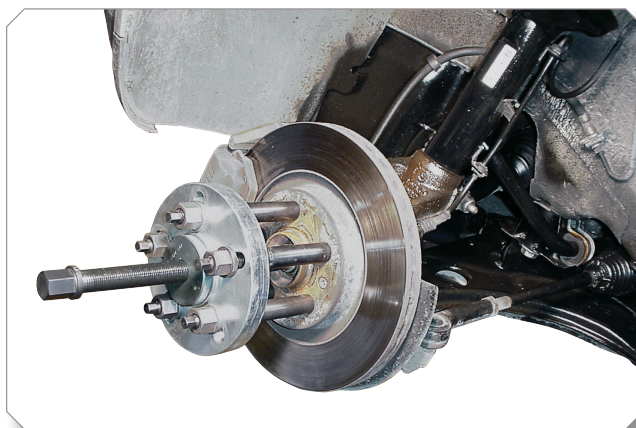


## KL-0174-..

Wheel Hub Puller / Cardan Shaft Extractor Series



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02/2025

KL-0174-..Serie\_EN250201.indd

**DEUTSCH****DE**

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## 1. READ AND UNDERSTAND FOR YOUR SAFETY



These operating instructions are intended to familiarise you with the operation of the **WHEEL HUB EXTRACTOR** or **CARDAN SHAFT EXTRACTOR** (pneumatic injector extractor). Therefore read and understand these operating instructions **before using** the special tool and observe all safety and warning instructions for safe use! Misuse can result in **DEATH** or **SEVERE INJURIES!** The operating instructions are a part of the special tool. Therefore keep them in a safe place so that you can access them at any time, and always pass them on to subsequent users of the special tool! The special tool complies with the recognised rules of technology as well as the relevant safety regulations.

### 1.1 Target group

These operating instructions are **exclusively** intended for skilled personnel in specialised motor vehicle workshops!

The special tool **may only be** used by skilled personnel in specialised motor vehicle workshops who are familiar with the basic regulations on work safety and accident prevention!

- **Never** allow unauthorised, inexperienced persons, minors and children, or persons with limited physical, sensory, and mental abilities to use the wheel bearing tool!

### 1.2 Obligations of the owner

Pursuant to the German Ordinance on Industrial Safety and Health (*BetrSichV*), employers are obliged to provide their employees with safe work equipment in accordance with the recognised rules of technology and the relevant safety regulations!

- The owner of the special tool **must** ensure that **only** trained personnel in specialised vehicle workshops use the spring compressing tool!
- The owner of the special tool **must** ensure that the instructions for use are available to the user and that the user has completely read and understood the instructions for use **before** using the wheel bearing tool!
- The owner of the special tool **must** ensure that the user is familiar with the basic regulations on work safety and accident prevention, and that the personal protective equipment is available to him/her!

### 1.3 Intended use

**The WHEEL HUB EXTRACTOR or CARDAN SHAFT EXTRACTOR ...**

... **may only** be used for pulling out wheel hubs, brake drums and stub axles as well as pressing out of cardan shafts on cars and vans!

... **may only** be used on vehicles or wheel hubs as specified in **Chapter 2.** - Product description!

... **may only** be used up to a **max. load of 17 tonnes!**

... **may only** be operated by hand with muscle power with a manual drive or a manually operated **GEDORE Automotive** hydraulic cylinder/pump combination with pressure gauge for safe pressure control!

... **may only** be used with **GEDORE Automotive** genuine spare parts and accessories!

... **may only** be used in the way described in these operating instructions!

**⚠** Any other use can result in **DEATH** or **SEVERE INJURIES!**

### 1.4 Reasonably foreseeable misuse

**The WHEEL HUB EXTRACTOR or CARDAN SHAFT EXTRACTOR ...**

... **must never** be used for pulling out or pushing out other parts or in another way than intended!

... **must never** be used together with an impulse or impact screwdriver!

... **must never** be used with a machine drive or a machine-operated hydraulic cylinder/pump combination or any other drive than intended!

... **must never** be used for batch processing with many extracting processes within a few minutes!

... **must never** be used with a bridged, modified, or removed safety device!

... **must never** be modified, converted, or used for other purposes without authorisation!

**⚠** **Always** use the special as intended. Any other use can result in **DEATH** or **SEVERE INJURIES!**

## 1.5 Personal protective equipment

For your safety, **always** wear personal protective equipment when using the special tool! The special tool can bring about mechanical hazards, such as crushing, cutting, and shock injuries.



Always wear **EYE PROTECTION** (for example to DIN EN 166, OSHA 29 CFR 1910.133, ANSI Z87) when using the special plug tool to protect yourself against flinging parts or particles!

- When using the special tool, flying parts or particles can cause **SEVERE INJURIES** to your **eyes!**



Always wear **PROTECTIVE GLOVES** (for example to DIN EN 388, OSHA 29 CFR 1910.138, ANSI 105) when using the special tool to protect yourself against sharp edges and crushing between parts!

- When working with the special tool, sharp edges and crushing between parts can cause **SEVERE INJURIES** to your **hands!**



Always wear **SAFETY SHOES** (for example to DIN EN ISO 20345, OSHA 29 CFR 1910.136, ANSI Z41) when using the special tool to protect yourself against falling parts!

- When working with the special tool, falling parts can cause **SEVERE INJURIES** to your **feet and toes!**

## 1.6 Labelling of the warnings

**Warnings** warn of potential **hazards**. **Always** observe these warnings to avoid **DEATH** or **INJURIES!** For better differentiation, warnings in these operating instructions are classified as follows:

Warning sign	Meaning
	<b>Indicates</b> a hazardous situation which, if not avoided, could cause <b>DEATH</b> or <b>SEVERE INJURIES</b> .
	<b>Indicates</b> a hazardous situation which, if not avoided, could cause <b>MODERATE</b> or <b>MINOR INJURIES</b> .
	<b>Indicates</b> a situation which, if not avoided, could cause damage to the tool or an object in its vicinity.
	<b>Note</b> on important information and useful tips.

## 1.7 Work environment

**Only** use the special tool in a safe working environment, and **do not** expose it to extreme temperatures, direct sunlight or extreme humidity and moisture!

- The workplace **must** be clean and tidy.
- The workplace **must** be sufficiently large and illuminated.
- The workplace **must** be located on a solid and non-skidding floor.
- The workplace **must** be safeguarded against access of unauthorised persons.
- The workplace **must** have a room temperature between -10°C and +40°C.

## 1.8 Emissions

Molybdenum disulphide paste and hydraulic oil can drip or escape when using the special tool and thus pose a hazard to the environment.

- **Immediately** remove leaking hydraulic oil as well as excess molybdenum disulphide paste (using oil binding agents or a cleaning cloth, for example).
- In case of skin contact with hydraulic oil, clean the affected area **immediately** with degreasing soap and water.
- **Always** dispose of pollutants such as hydraulic oil and molybdenum disulphide paste **in an environmentally friendly** manner.
- Safety data sheets *in accordance with Regulation (EC) No. 1907/2006* for hydraulic oil (**Alsus Hyd HLP 32 or 46**) as well as for molybdenum- paste (**MOLYKOTE® G-N PLUS PASTE**) can be found on the manufacturer's site on the Internet (**World Wide Web**) or, **if required, contact GEDORE Automotive.**

## 1.9 Basic safety instructions and warnings

### **⚠ WARNING - Failure to observe this warning may result in an accident or death.**

When using the special tool, **always** observe the following safety and warning instructions as well as measures to avoid **DEATH** or **SERIOUS INJURY** as well as property damage due to hazards, misuse, abuse and unsafe handling!

- Therefore read and understand these operating instructions **before using** the special tool and observe all safety and warning instructions for **safe use!**
- **Always** work with the special tool in accordance with the basic regulations on work safety, accident prevention and environmental protection!
- **Always** use the special tool as intended. **GEDORE Automotive** does not accept any liability or warranty or guarantee claims for injuries and damage, resulting from improper use or disregard of the safety regulations.
- Before **each** use, check the special tool **carefully** for damage, loose parts, or unauthorised modifications. **Never** use it, if you notice any such deficiencies! Professional inspection and repair may only be carried out by specially trained personnel from **GEDORE Automotive!**
- **Only** use original spare parts and accessories from **GEDORE Automotive GmbH** for the special tool!
- **Always** observe the vehicle-specific manufacturer's specifications when working with the special tool!
- Secure the special tool in particular the hydraulic cylinder against falling down and flinging around. This can be done by holding it tightly or by using the **GEDORE** safety retaining belt - **KL-0040-2590** or the retaining device **KL-0040-258 A!**
- **Never** use the glow plug tool with an impulse or impact wrench or any other drive than intended! Drive it **only** by hand and with muscle power; use a manual drive or a manually operated **GEDORE Automotive** hydraulic cylinder/pump combination with a pressure gauge for safe pressure control!
- **Never** use the special tool for batch processing with many compressing processes within a within a few minutes!
- **Never** use the special tool when you are tired or under the influence of alcohol, drugs, or medication!
- **If necessary**, carry, lift, and position the severe parts of the special tool with the help of a second specialist!
- **Before using** the special tool, make sure that **no** unauthorised persons are in the immediate work environment!
- **Always** observe the **max. loading capacity** when using the special tool, and **never** exceed it!
- **Never** stand in the axial extension of the special tool, **especially** when it is being operated!
- Wear your personal protective equipment such, as safety goggles, protective gloves, safety shoes during work!
- **Always** check the stability of the special tool before use! **Always** make sure that the special tool is securely attached to the vehicle!
- **Never** leave the special tool unattended in loaded condition on the vehicle!
- Avoid dropping, hitting or knocking the special tool and never hit it with a hammer or other objects especially when its under load!
- **Never** clamp the special tool in a vice and always place it securely on a clean shelf or workbench to prevent it from falling!
- **Before each use**, check moving parts and the spindles on the special tool for sufficient lubrication. If necessary, lubricate them **exclusively** with molybdenum disulphide paste (e.g. **GEDORE Automotive - KL-0014-0030!**)
- Interrupt your work **immediately** if you are unsure about using the special tool, and contact **GEDORE Automotive** if necessary!
- **For safety reasons**, ensure that a damaged special tool is no longer used! Professional inspection and repair may only be carried out by specially trained personnel from **GEDORE Automotive GmbH!**

## 1.10 Maintenance

Perform maintenance on the special tool at **regular** intervals and **only** when the tool is depressurised! Poor and improper maintenance can damage the special tool, thus causing **DEATH** or **SEVERE INJURIES!**

### **Prior to each use:**

- **Prior to each use**, check the special tool **carefully** for damage, loose parts or unauthorised modifications!
- Prior to **each use** of the special tool, check the spindle for contamination and damage. If necessary, clean it, and subsequently lubricate it **only** with molybdenum disulphide paste! (For example, **GEDORE Automotive - KL-0014-0030**)

### **Recommended: Every 24 months:**

- Have the special tool professionally checked **every 24 months** by authorised specialists from **GEDORE Automotive GmbH!**

## 1.11 Troubleshooting

**Only** perform troubleshooting on the special tool when it is depressurised!

**Problem:** Clamping nut of the mechanical drive runs stiffly on the special tool spindle.

**Reason:** The clamping nut and spindle are soiled or insufficiently lubricated, or wrong lubricant was used.

**Remedy:** Clean the clamping nut and spindle, check them for damage, and lubricate them **exclusively** with molybdenum disulphide paste. (For example, **GEDORE Automotive - KL-0014-0030**)

**Problem:** Hydraulic oil escapes from the hydraulic coupling between hydraulic cylinder and hand pump.

**Reason:** Hydraulic coupling contaminated or loose.

**Remedy:** Clean and retighten the hydraulic coupling. Top up lacking hydraulic oil (**HLP 32 or 46**) at the hand pump.

**Problem:** The hydraulic hand pump does not build up pressure or only very slowly.

**Reason:** The pressure release valve on the hand pump is open or hydraulic oil is missing.

**Remedy:** Close the pressure release valve on the hand pump completely and top up missing hydraulic oil (**HLP 32 or 46**) on the hand pump, if necessary.

## 1.12 Care / Storage

### **CAUTION**

Improper care and storage can damage the special tool.

- Therefore, **never** immerse the special tool in water, solvents, or other cleaning liquids.
- After use, clean all parts of the special tool with a dry and clean cleaning cloth.
- Store the special tool and the operating instructions at a dry and clean place.

## 1.13 Repair

### **WARNING**

Improper repair of the special tool can result in **DEATH** or **SEVERE INJURIES**.

- If damage, loose parts or unauthorised modifications have been found on the special tool, it must no longer be used for safety reasons!
- Repair may only be carried out by specially trained personnel from **GEDORE Automotive!**
- **Only** use original spare parts and accessories from **GEDORE Automotive GmbH** for the special tool!

If necessary, contact us, the **GEDORE Automotive** for a professional inspection and repair of the special tool.

## 1.14 Environmentally friendly disposal

Dispose of the special tool and its packaging material in an environmentally compatible way in accordance with the legal requirements. If necessary, ask your local authorities about environmentally friendly disposal options.

## 2. PRODUCT DESCRIPTION

### 2.1 KL-0174-.. - Wheel hub puller / cardan shaft extractor series

**Universally suitable for wheel hubs on cars and vans with a 3 / 4/ 5 hole pitch and a hole circle Ø of 90 - 180mm.**

The wheel hub puller / cardan shaft extractor series enables a fast and professional pulling out of wheel hubs, brake drums and stub axles as well as a pressing out of stuck or glued cardan shafts. Due to the universal perforated discs and various pull bolts, the series can be individually adjusted to the corresponding wheel hub on the vehicle.

#### KL-0174-110 - Wheel hub puller / cardan shaft extractor kit

**Suitable for VW-Audi, Alfa Romeo, BMW, Fiat, Mercedes, Opel, Porsche, Renault, Seat, Škoda, etc.**

- Perforated disc size 2 for hole circle Ø 90 - 130mm
- Pull bolts with M12x1.5 + M14x1.5mm male thread
- Including mechanical drive parts for pressing out the cardan shaft

##### Necessary accessories

##### For pulling-off the wheel hub:

KL-0049-31 - Impact extractor 4.8kg

##### Scope of delivery and single part overview

See *chapter 2.2*



#### KL-0174-150 / ..-150 E - Wheel hub puller / cardan shaft extractor kit

**Suitable for VW-Audi, Alfa Romeo, BMW, Citroën, Fiat, Ford, Honda, Hyundai, Jeep, KIA, Lancia, Mazda, Mercedes, Mini, Mitsubishi, Nissan, Opel, Peugeot, Porsche, Renault, Seat, Škoda, Smart, Suzuki, Toyota, Volvo etc.**

- Perforated disc size 2 for hole circle Ø 90 - 130mm
- Pull bolts with M12x1, 25+ M12x1.5 + M14x1.5mm female thread
- Pull bolts with M12x1.25 + M12x1.5 + M14x1.25 + M14x1.5mm male thread
- Including extension adapter and thrust piece for hydraulic drive
- **KL-0174-150 E** as **KL-0174-150**, but in an additional foam insert

##### Necessary accessories

##### For pulling out the wheel hub:

KL-0049-31 - Impact extractor 4.8kg

##### For hydraulically pressing out the cardan shaft:

KL-0040-2500 - Hydraulic cylinder, 17t

KL-0215-35 M25 - Hydraulic hand pump

KL-0039-1930 - Thrust spindle

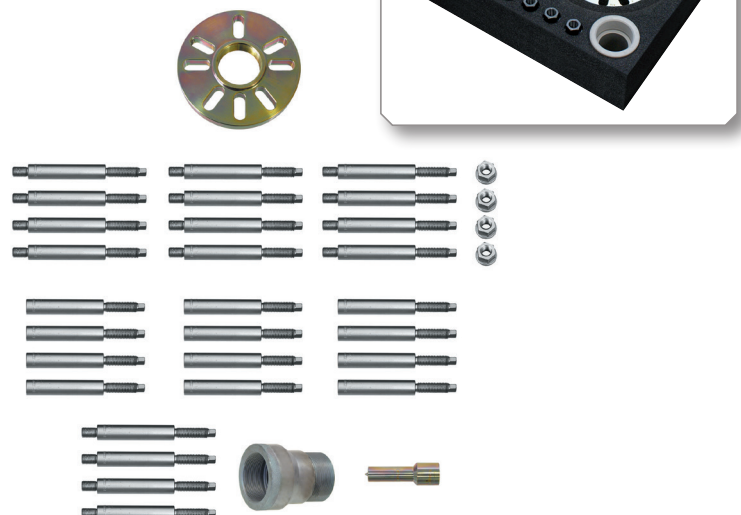
##### For mechanically pressing out the cardan shaft:

KL-0174-620 - Thrust spindle

KL-0174-547 - Adapter

##### Scope of delivery and single part overview

See *chapter 2.2*







## 2.2 Scope of delivery / Overview of the single parts

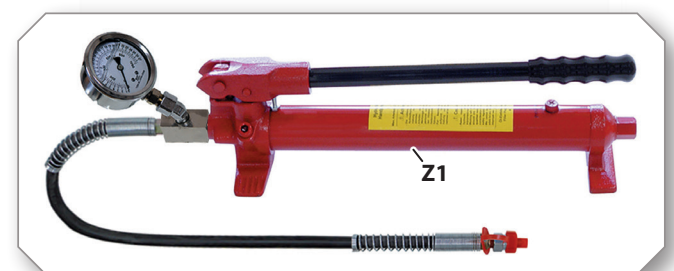
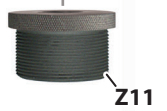
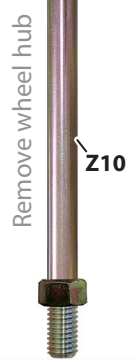
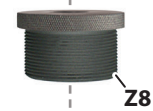
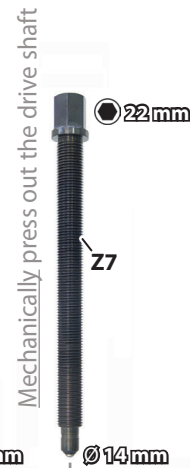
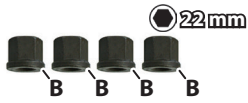
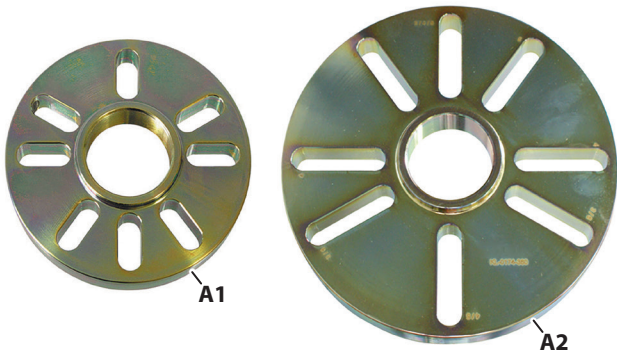
① The table shows all components of the **KL-0174-..** - Wheel hub puller / cardan shaft extractor series.

Prior to using the special tool check to ensure that all the parts included in the scope of delivery are available.

		Tool kits			
		KL-0174-110	KL-0174-150 KL-0174-150 E	KL-0174-911	KL-0049-31
<b>Perforated disc... (A)</b>	<b>Item</b>				
KL-0174-240 - Perforated disc size 2 for hole circle Ø 90 - 130mm	<b>A1</b>	•	•		
KL-0174-360 - Perforated disc size 3 for hole circle Ø 100 - 180mm	<b>A2</b>				
<b>Collar nuts... (B)</b>					
KL-0174-701 - Hex collar nut M14	<b>B</b>	• 4x	• 4x		
<b>Pull bolt... (C)</b>					
KL-0174-762 - Pull bolt M12x1.25mm / female thread	<b>C1</b>		• 4x		
KL-0174-763 - Pull bolt M12x1.5mm / female thread	<b>C2</b>		• 4x		
KL-0174-764 A - Pull bolt M14x1.5mm / female thread	<b>C3</b>		• 4x		
KL-0174-767 - Pull bolt M14x2.0mm / female thread	<b>C4</b>				
KL-0174-722 - Pull bolt M12x1.25mm / male thread	<b>C5</b>		• 4x		
KL-0174-723 - Pull bolt M12x1.5mm / male thread	<b>C6</b>	• 4x	• 4x		
KL-0174-724 - Pull bolt M14x1.5mm / male thread	<b>C7</b>	• 4x	• 4x		
KL-0174-727 - Pull bolt M14x1.25mm / male thread	<b>C8</b>		• 4x		
KL-0174-728 - Pull bolt M15x1.25mm / male thread	<b>C9</b>				
<b>Storage Systems...</b>					
KL-4999-1316 - Foam insert	-		Only ..-150 E		
<b>Required drive parts... (Z)</b>					
KL-0215-35 M25 - Hydraulic hand pump, 17t	<b>Z1<sup>H</sup></b>				
KL-0040-2500 - Hydraulic cylinder, 17t	<b>Z2<sup>H</sup></b>				
KL-0039-1920-1 A - Pull spindle M20	<b>Z3<sup>H</sup></b>			•	
KL-0041-5041- Clamping nut with insert	<b>Z4<sup>H</sup></b>			•	
KL-0174-559 - Extension adapter 2 1/4"-14 UNS	<b>Z5<sup>H</sup></b>		•	•	
KL-0039-1935 - Thrust piece for hydraulic drive	<b>Z6<sup>H</sup></b>		•	•	
KL-0174-620 - Thrust spindle M20x2 x 230mm	<b>Z7<sup>M</sup></b>	•			
KL-0174-547 - Adapter 2 1/4"-14 UNS to M20x2	<b>Z8<sup>M</sup></b>	•			
KL-0174-856 - Thrust piece for mech. drive*	<b>Z9<sup>M</sup></b>				
KL-0049-31 - Impact extractor 4.8kg	<b>Z10</b>				•
KL-0174-545 - Adapter 2 1/4"-14 UNS to M18x2.5mm	<b>Z11</b>				•

## 2.3 Specifications

Maximum load capacity: ..... 17 tonnes



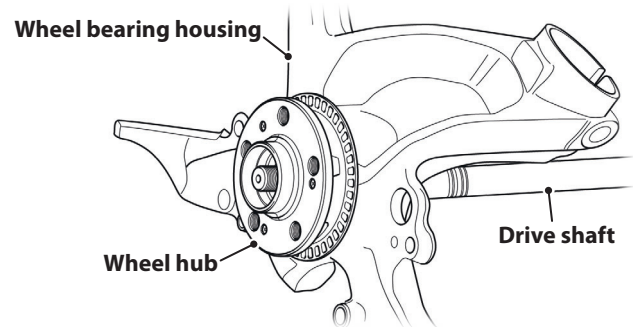
## 3. PREPARATION

### 📷1: Prepare wheel hub or drive shaft...

1. Lift the vehicle safely according to the manufacturer's specifications and prepare all necessary extractor parts for the subsequent work.

**For example:**

- Remove the wheel
- Dismantle the brake
- Remove central screw



## 4. TYPICAL APPLICATION

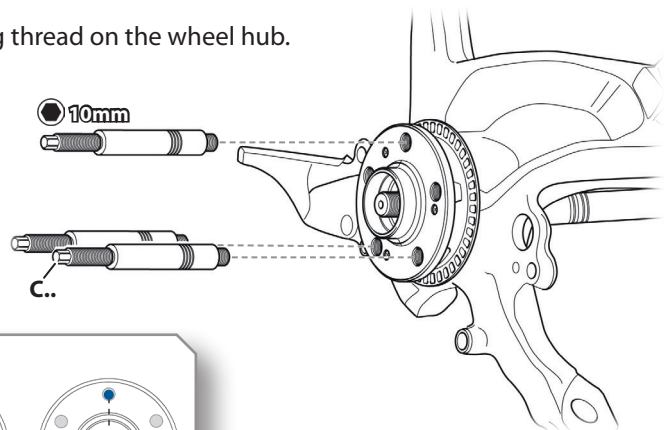
This typical application generally describes the operation of the wheel hub extractor or cardan shaft extractor when pulling out wheel hubs, brake drums and stub axles as well as when pressing out cardan shafts directly on the vehicle. In the course of this the vehicle manufacturer's specifications must also always be followed!

### 4.1 Mount pull bolt and perforated disc

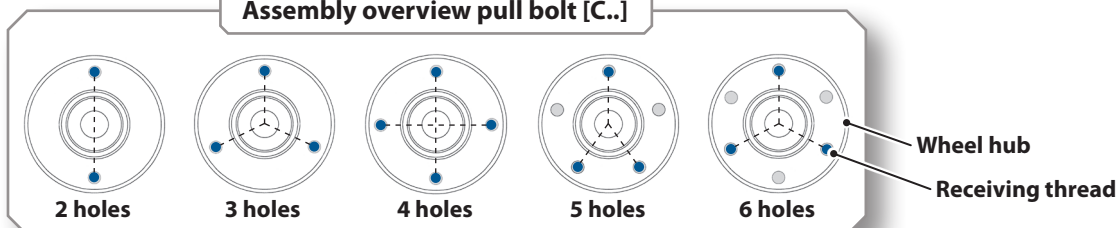
#### 📷2: Mount suitable pull bolts [C..]...

1. Select suitable pull bolt [C..] depending on the mounting thread on the wheel hub.
2. Completely screw in the selected pull bolt [C..] as shown according to the hole pattern of the wheel hub in the required quantity and position on the wheel hub.

ⓘ Tighten the pull bolt [C..] with **10Nm**.



#### Assembly overview pull bolt [C..]

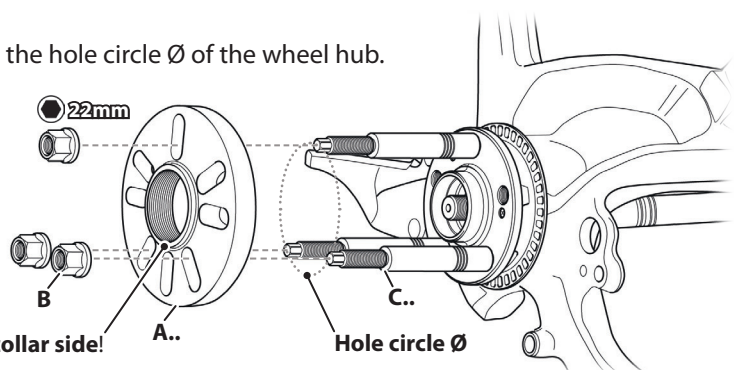


#### 📷3: Mount the suitable perforated disc [A..]...

3. Select a suitable perforated disc [A..] depending on the hole circle  $\varnothing$  of the wheel hub.

4. Place the selected perforated disc [A..] in the correct position, as shown, on the pull bolt [C..] and secure by using collar nuts [B].

ⓘ Tighten the collar nuts [B] with **10Nm**.



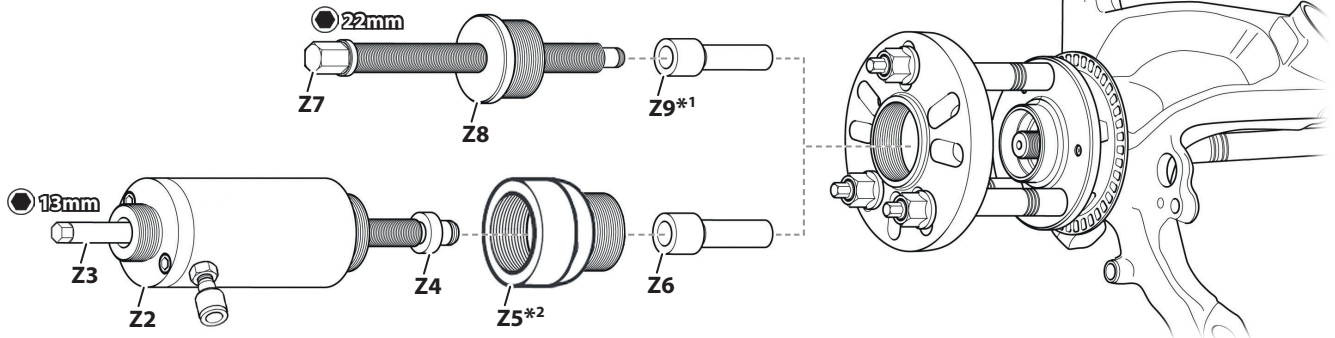
Pay attention to the **collar side!**

## 4.2 Pressing out of the cardan shaft

① If it is **not** necessary to press out the cardan shaft, continue with "Chapter 4.3 - Pulling out the wheel hub"..

### 📷 4: Assemble the required drive parts...

1. For pressing out the cardan shaft, assemble the required drive parts [Z..] as shown, either *mechanically* or *hydraulically*, and screw them into the correct position on the perforated disc [A..].



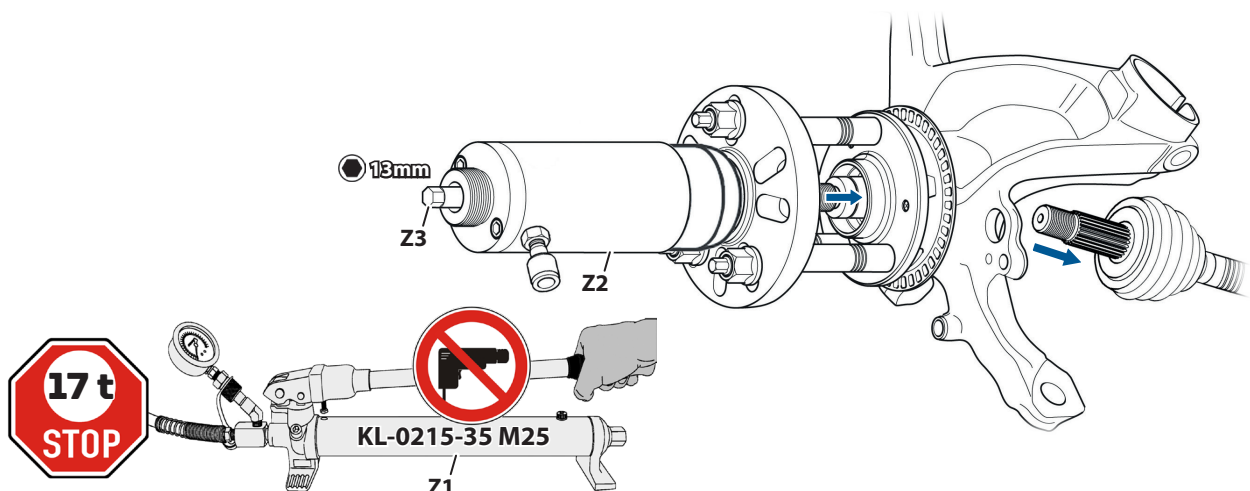
\*1 If the mechanical spindle is too short to press out the cardan shaft, you can additionally use thrust piece [Z9] as an extension.

\*2 If the space between the wheel hub and perforated disc [A..] is too tight to use the hydraulic cylinder [Z2] or the hole circle of the wheel hub is too small, you can additionally use the adapter [Z5] as a spacer.

### 📷 5: Press out cardan shaft in a controlled manner...

#### ⚠️ WARNING

The wheel hub extractor/cardan shaft extractor can break and spin around due to overloading or misuse. This can cause DEATH or SEVERE INJURIES! Therefore, never overload the wheel hub puller / cardan shaft extractor never use it with a mechanical drive or in any other way than intended! Secure the wheel hub extractor / cardan shaft extractor against falling or being thrown about, for example by holding it firmly or using the safety retaining strap - KL-0040-2590!



2. Connect the hydraulic hand pump [Z1] to the hydraulic cylinder [Z2]. Operate the hydraulic hand pump [Z1], always observing the pressure on the pressure gauge and pull out the cardan shaft in a controlled manner.

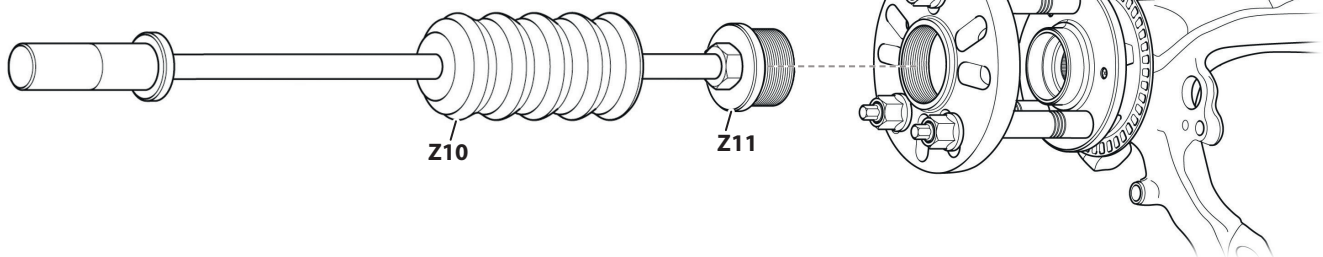
① Pushing out with mechanical drive parts is also based on the same principle.

① If the **max. stroke of 45mm** of the hydraulic cylinder [Z2] is reached: Interrupt the forcing process, relieve the pressure at the hydraulic hand pump [Z1], re-tighten the thrust spindle [Z3] until it is fully applied, and continue the forcing process.

## 4.3 Pulling out the wheel hub

### 📷6: Assemble the required drive parts...

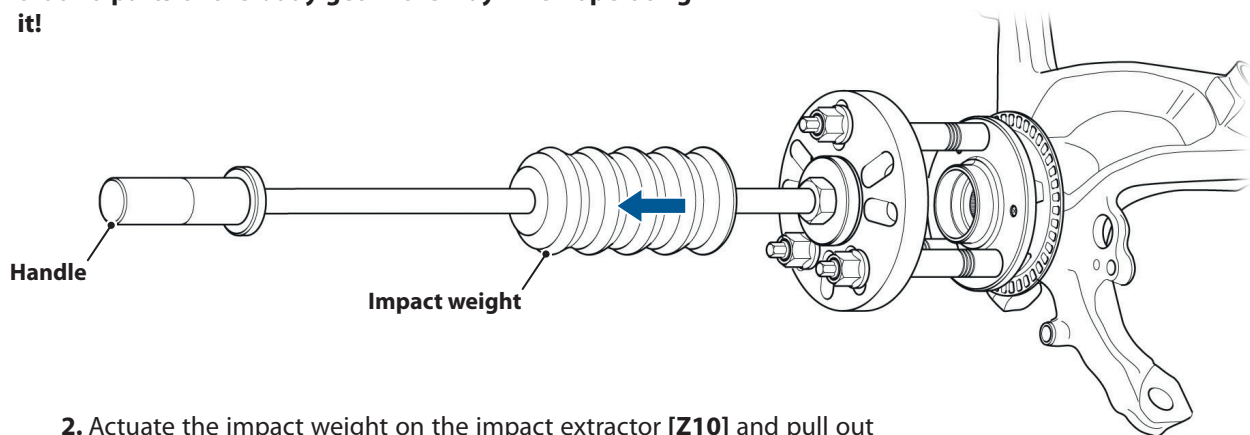
1. To pull out the wheel hub, assemble the required drive parts [Z..] as shown and screw them into the correct position on the perforated disc [A..].



### 📷7: Pulling out the wheel hub in a controlled manner...

#### ⚠️ CAUTION

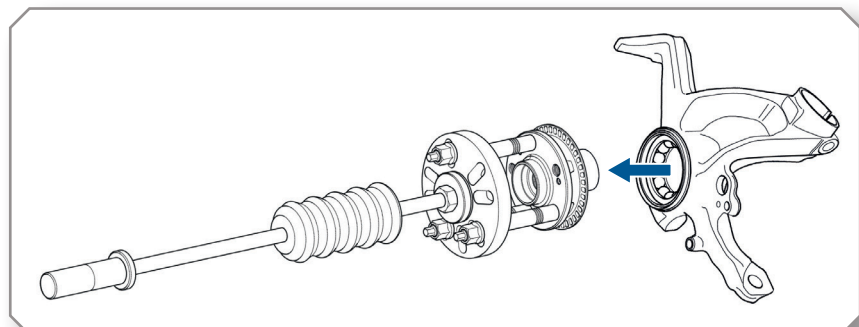
The impact extractor [Z10] can cause INJURIES during use, in particular crushing injuries to hands and fingers! Therefore, always hold the handle and the impact weight on the impact extractor [Z10] in the centre and make sure that no parts of the body get in the way when operating it!



2. Actuate the impact weight on the impact extractor [Z10] and pull out the wheel hub from the wheel bearing in a controlled manner.

📄 The wheel bearing can now be replaced professionally, e.g. using the wheel bearing tool series-**KL-0039-...**

For further information see also **GEDORE-Automotive** main catalogue.





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