

GEDORE

KLANN EXPERIENCE

Product instructions

EN

KL-4999-250 /-250/AT /-2500

"MODULO 250" Assembly Trolley



GEDORE Automotive GmbH

Breslauer Straße 41
78166 - Donaueschingen
Postfach 1329
78154 Donaueschingen - GERMANY
☎ +49 (0) 771 / 8 32 23-0
☎ +49 (0) 771 / 8 32 23-90
✉ info.gam@gedore.com



www.gedore-automotive.com



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Worldwide GEDORE service centers and offices are listed on the Internet at: www.gedore.com

PRODUCT DESCRIPTION

KL-4999-250/ -250/AT - Assembly trolley "MODULO 250"

The robust assembly trolley "MODULO 250" in its unique composition offers the ideal, mobile workstation for fast, organised, and efficient replacement of wheel bearings, silent blocks, support joints, bushings, etc.

① The **KL-4999-2500** assembly trolley does not include the 17 t hydraulic cylinder - **KL-0040-2500**!

Content / range of application:

- Various drive parts such as hydraulic cylinder 17t **KL-0040-2500**, ring ratchet/open-end spanners, impact extractors 4.8 kg - **KL-0049-31** as well as pull/thrust spindles (mechanical, hydraulic), quick-clamping nuts and adapters of the **KL-0039-..series** for driving the tool kits.
- Articulated handle - **KL-4007-411** as well as power spanner/socket spanner sockets (SK / TX / XZN) for loosening and tightening of wheel bearing central screws.
- Locking ring pliers - **KL-0192-5** for the disassembly and assembly of wheel bearing locking rings.
- Wire brush for derusting and cleaning various components.
- Wheel hub puller - **KL-0041-38..** as well as wheel bearing tool kits of the **KL-0041-4.. Series** for pressing out and in of wheel hubs and wheel bearing units, for example on VW, Audi, Seat, Škoda.
- Pullers of the **KL-0174-.. Series** for pulling standard wheel bearings as well as pressing out bonded and stuck cardan shafts.
- Hooks for impact extractors - **KL-0049-360 A** for pulling of wishbones from the suspension joint clamping hole.

Required drive parts:

KL-0215-35 M25 - Hydraulic hand pump with pressure gauge, 17t

Assembly trolley specifications:

- Dimensions H 985 x W 1200 x D 635mm
- Beech multiplex worktop, 30mm thick, oiled
- Total load carrying capacity: 1000kg / mobile operation: 750kg
- 2 fixed castors Ø 200mm and 2 swivel castors Ø 125mm with total brake
- Sheet steel, corrosion-resistant, scratch-resistant powder-coated in GEDORE blue (KL-4999-250) or in anthracite/RAL 7016 (KL-4999-250/AT)
- Extra wide drawers W 998 x D 474mm with full extension, loadable up to 70kg
- Automatic drawer retraction with single pull-out stop and central locking system
- Side walls with Euro perforation 10 x 38mm for attaching hooks and tools
- Side panels with Euro perforation 10 x 38mm for fastening hooks and tools

SAFETY INSTRUCTIONS AND REGULATIONS

- ✔ Read and understand this product information **before using** the special tool, as it serves to familiarise you with the special tool and thus ensures **safe use**!
- ✔ Use the special tool **as intended** and **always** carry out maintenance and repair work in compliance with the regulations on occupational safety and accident prevention as well as the vehicle manufacturer's instructions!
- ✔ **Before each use**, check the special tool **carefully** for damage, loose parts, or unauthorised modifications. **Never** use it if you notice any such deficiencies!
- ✔ **Before each use**, check the moving parts on the **special tool** for dirt, if necessary clean and lubricate it **exclusively** with molybdenum disulphide paste, for example **KL-0014-0030**!
- ✔ **Always** wear your personal protective equipment, e.g. safety goggles, protective gloves, safety shoes, if necessary!
- ✔ Interrupt your work **immediately** if you are unsure about using the special tool, and contact **GEDORE Automotive GmbH** if necessary!
- ✔ 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 or **GEDORE Automotive GmbH** about environmentally friendly disposal options!

Scope of delivery:

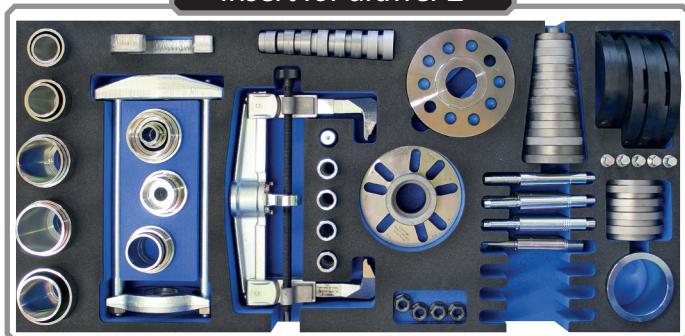
Workshop-/Assembly Trolley



Insert for drawer 1



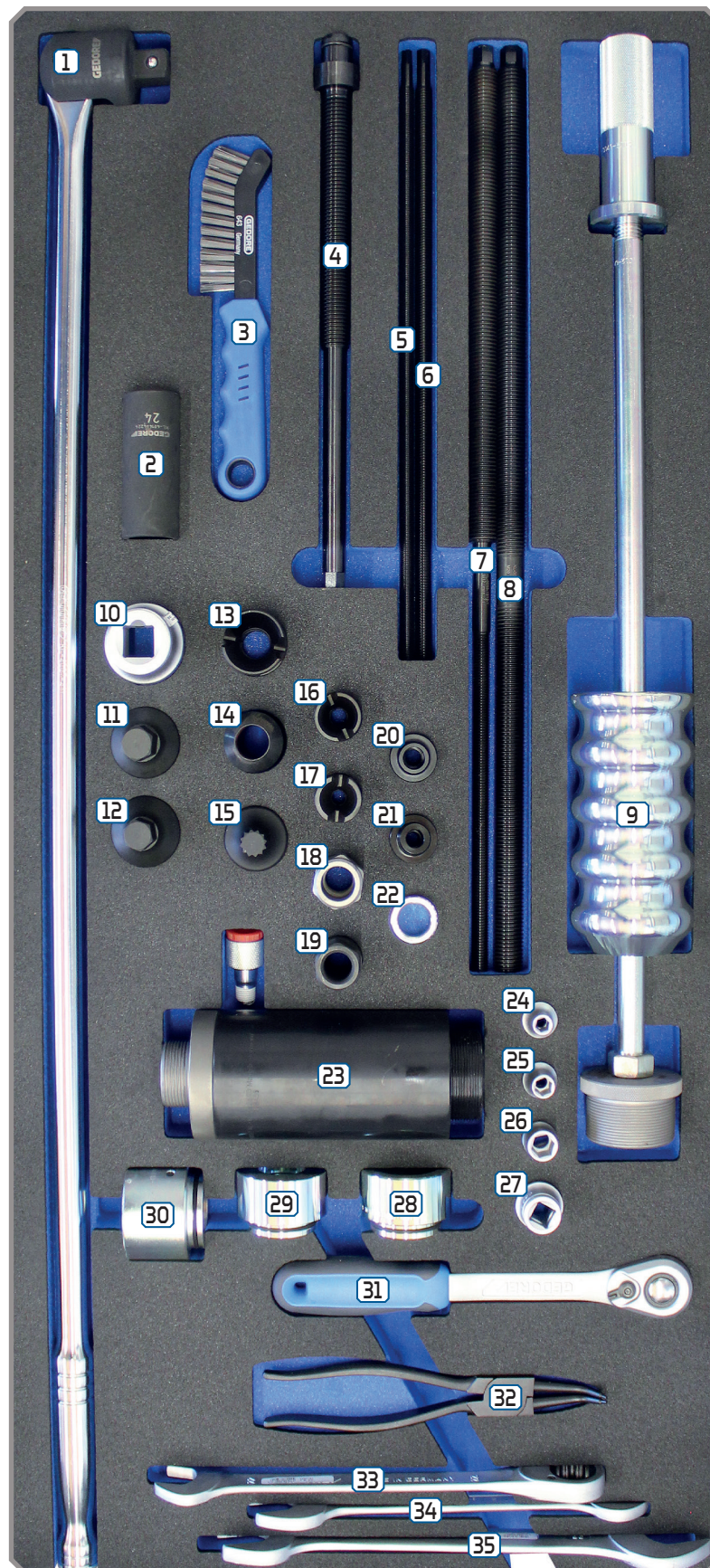
Insert for drawer 2



Product description

Insert for drawer 1

! Depending on the application, follow the corresponding instructions!



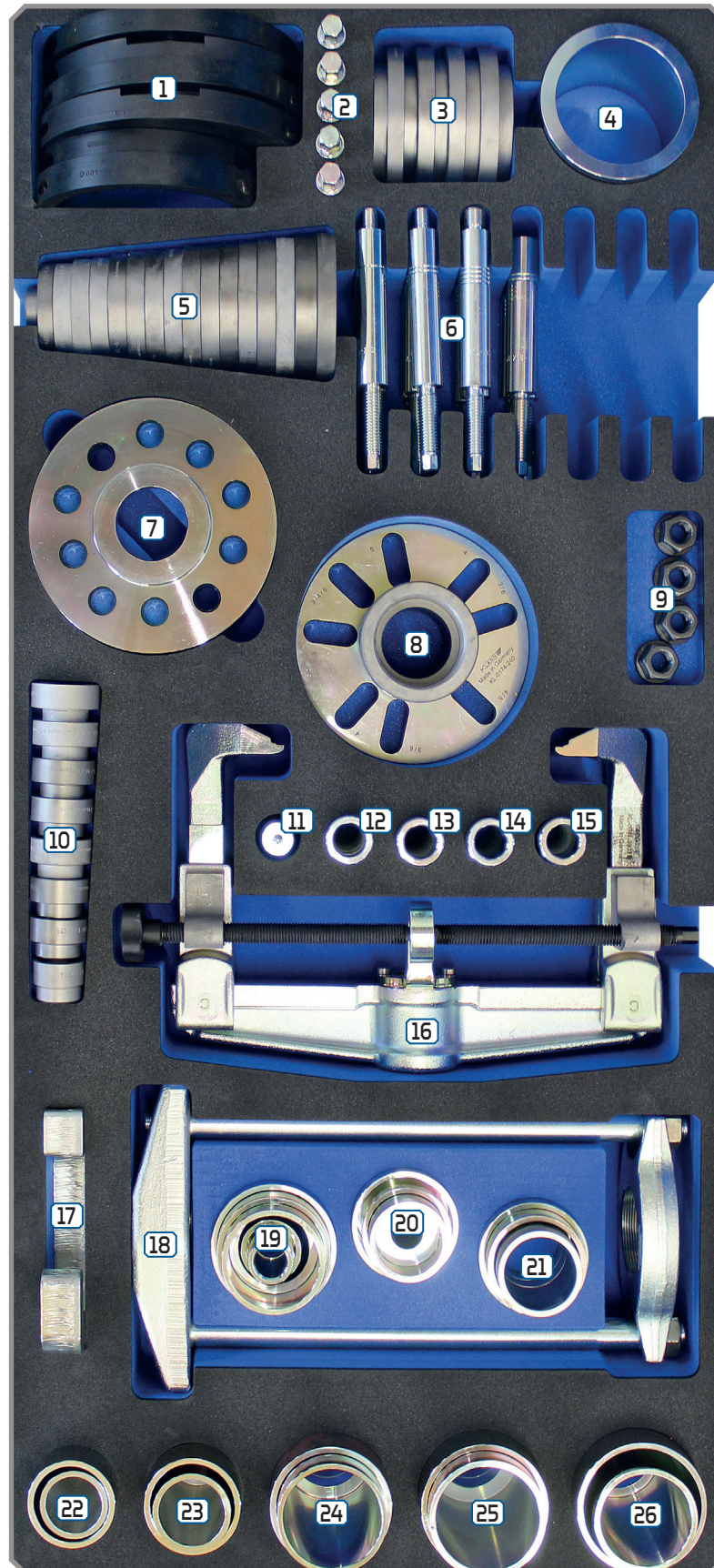
Scope of delivery / Insert for drawer 1

Item	Part no.	Description	Qty.
1	KL-4007-411	Articulated handle 3/4", 980mm	1
2	KL-4014-4224	Screwdriver bit, width 24	1
3	643	Brake calliper brush	1
4	KL-0039-1930	Thrust spindle M20 x 350mm	1
5	KL-0039-2010-1	Pulling spindle M10x1.25 for mechanical drive	1
6	KL-0039-2012-1	Pulling spindle M12 for mechanical drive	1
7	KL-0039-1912-1	Pulling spindle M12 for hydr. cylinder	1
8	KL-0039-1920-1	Pulling spindle M20 for hydr. cylinder	1
9	KL-0049-31	Impact extractor 4.8kg with adapter 2 1/4"-14 UNS	1
10	D 32 36	Socket 3/4" 36mm	1
11	IN K 32 19	Power screwdriver bit 3/4" 19mm	1
12	IN K 32 17	Power screwdriver bit 3/4" 17mm	1
13	KL-0039-2120-2	Quick-release nut M20	1
14	KL-0039-2192	Conical adapter for quick-release nut M20	1
15	KL-4031-4118	Screwdriver bit XZN M18	1
16	KL-0039-2112-2	Quick-release nut M12	1
17	KL-0039-2110-2	Quick-release nut M10 x 1.25	1
18	KL-0040-3009	Clamping nut M20	1
19	KL-0041-3812	Clamping nut 30mm dia., M20	1
20	KL-0039-1912-2	Collar nut M12	1
21	KL-0039-1910-2	Collar nut M10x1.25	1
22	KL-0214-2202	Spacer ring 30mm dia.	1
23	KL-0040-2500	Hydraulic cylinder 17t ⓘ Not included in assembly trolley - KL-4999-2500!	1
24	19 8	Socket, 8mm	1
25	19 10	Socket, 10mm	1
26	19 13	Socket, 13mm	1
27	19 22	Socket, 22mm	1
28	KL-0039-1011	Mounting adapter for mechanical spindle	1
29	KL-0039-1002	Adapter for clamping nut and pressure spindle	1
30	KL-0039-1003	Adapter for hydraulic cylinder	1
31	1993 U-20	Reversible ratchet, 1/2"	1
32	KL-0192-5	Circlip pliers	1
33	7 R 22	Open-ended spanner with ring ratchet 22	1
34	6 22X27	Double open-ended spanner, 22x27mm	1
35	6 30X36	Double open-ended spanner, 30x36mm	1
KL-4999-1335 - Foam insert for drawer			

Product description

Insert for drawer 2

 Depending on the application, follow the corresponding instructions!



Scope of delivery / Insert for drawer 2

Item	Part no.	Description	Qty.
1	KL-0041-4400 C	Pair of clamping jaws, 72mm dia.	1
	KL-0041-4500 B	Pair of clamping jaws, 85mm dia.	1
	KL-0041-4600 E	Pair of clamping jaws, 78mm dia.	1
2	KL-0041-3931	Pressure screw M14x1.5	5
3	KL-0039-1401	Bearing cover	1
	KL-0039-1413	Centring ring, 70mm dia.	1
	KL-0039-1414	Centring ring, 75mm dia.	1
	KL-0039-1415	Centring ring, 80mm dia.	1
4	KL-0039-1402	Housing	1
5	KL-0039-1260	Thrust ring 60mm dia.	1
	KL-0039-1264	Thrust ring 64mm dia.	1
	KL-0039-1265	Thrust ring 65mm dia.	1
	KL-0039-1268	Thrust ring 68mm dia.	1
	KL-0039-1272	Thrust ring 72mm dia.	1
	KL-0039-1273	Thrust ring 73mm dia.	1
	KL-0039-1274	Thrust ring 74mm dia.	1
	KL-0039-1280	Thrust ring 80mm dia.	1
	KL-0039-1282	Thrust ring 82mm dia.	1
	KL-0039-1283	Thrust ring 83mm dia.	1
	KL-0039-1285	Thrust ring 85mm dia.	1
	KL-0039-1288	Thrust ring 88mm dia.	1
	KL-0039-1289	Thrust ring 89mm dia.	1
	KL-0039-1296	Thrust ring 96mm dia.	1
	KL-0039-1502	Thrust ring 93mm dia.	1
	KL-0039-1506	Centring ring, 60mm dia.	1
6	KL-0174-722	Tension bolt, type B, M12x1.25	4
	KL-0174-723	Tension bolt, type B, M12x1.5	4
	KL-0174-724	Pull bolt, type B, M14x1.5	4
	KL-0174-763	Pull bolt, type M, M12x1.5	3
7	KL-0041-4607	Housing	1
	KL-0041-4608 D	Cover	1
8	KL-0174-240	Perforated disc size 2 (3, 4, and 5 holes)	1
	KL-0174-559	Adapter 2¼"-14 UNS to 2¼"-14 UNS	1
9	KL-0174-701	Hexagon collar nut M14	4
10	KL-0039-1334	Centring ring, 34mm dia.	1
	KL-0039-1338	Centring ring, 38mm dia.	1
	KL-0039-1339	Centring ring, 39mm dia.	1
	KL-0039-1340	Centring ring, 40mm dia.	1
	KL-0039-1341	Centring ring, 41mm dia.	1
	KL-0039-1342	Centring ring, 42mm dia.	1
	KL-0039-1343	Centring ring, 43mm dia.	1
	KL-0039-1345	Centring ring, 45mm dia.	1

Item	Part no.	Description	Qty.
11	KL-0039-1935	Thrust piece	1
12	KL-0041-4602	Guide bushing, 26.3mm dia.	1
13	KL-0041-4601	Guide bushing, 29.5mm dia.	1
14	KL-0039-1802	Centring sleeve, long, 27.4mm dia.	1
15	KL-0039-1803	Centring sleeve, long, 29.7mm dia.	1
16	KL-0041-3800 A	Wheel hub extractor basic unit with adjusting spindle	1
17	KL-0049-360 A	Hook for impact extractor	1
18	KL-0039-1140 V	Press frame, reinforced	1
19	KL-0039-1640	Pressure/support sleeve, short, 40 / 32mm dia.	1
	KL-0039-1666	Pressure/support sleeve, short, 66 / 58mm dia.	1
	KL-0039-1674	Pressure/support sleeve, short, 74 / 66mm dia.	1
	KL-0039-1682	Pressure/support sleeve, short, 82 / 74mm dia.	1
20	KL-0039-1630	Pressure/support sleeve, short, 30 / 22mm dia.	1
	KL-0039-1650	Pressure/support sleeve, short, 50 / 42mm dia.	1
	KL-0039-1658	Pressure/support sleeve, short, 58 / 50mm dia.	1
	KL-0039-1670	Pressure/support sleeve, short, 70 / 62mm dia.	1
21	KL-0039-1646	Pressure/support sleeve, short, 46 / 38mm dia.	1
	KL-0039-1654	Pressure/support sleeve, short, 54 / 46mm dia.	1
	KL-0039-1664	Pressure/support sleeve, short, 64 / 56mm dia.	1
	KL-0039-1672	Pressure/support sleeve, short, 72 / 64mm dia.	1
22	KL-0039-1744	Pressure/support sleeve, long, 44 / 36mm dia.	1
	KL-0039-1756	Pressure/support sleeve, long, 56 / 48mm dia.	1
23	KL-0039-1750	Pressure/support sleeve, long, 50 / 42mm dia.	1
	KL-0039-1762	Pressure/support sleeve, long, 62 / 54mm dia.	1
24	KL-0039-1766	Pressure/support sleeve, long, 66 / 58mm dia.	1
	KL-0039-1778	Pressure/support sleeve, long, 78 / 70mm dia.	1
25	KL-0039-1770	Pressure/support sleeve, long, 70 / 62mm dia.	1
	KL-0039-1782	Pressure/support sleeve, long, 82 / 74mm dia.	1
26	KL-0039-1774	Pressure/support sleeve, long, 74 / 66mm dia.	1
	KL-0039-1784	Pressure/support sleeve, long, 84 / 76mm dia.	1
KL-4999-1336 - Foam insert for drawer			

INSTRUCTION OVERVIEW

This overview shows all instructions belonging to the workshop/assembly trolley. Depending on the special tool and application, the corresponding instructions **must be read and understood before use** !

KL-0039-.. - Universal wheel bearing tool series

Universal for pressing out and in of standard wheel bearings and wheel hubs.



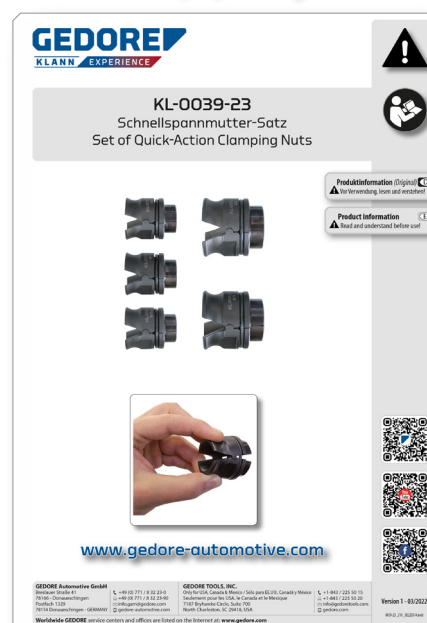
KL-0039-.. - Universal Silent block / joint bearing tool series

Universal for pressing out and in of silent blocks and joints bearings as well as of suspension joints.



KL-0039-23 Quick-release nut kit

Quick-release nuts for a quick adjustment of a pulling spindle only by sliding.



KL-0040-.. / KL-0215-.. Hydraulic drive parts and accessories

For hydraulically driving GEDORE Automotive special tools.



KL-0041-380 EA Wheel hub extractor

For pulling out wheel hub / bearing units from the wheel bearing housing.



KL-0041-4.. Wheel bearing tool

For installing wheel hub / bearing units



INSTRUCTION OVERVIEW

KL-4031-4118 In-hex socket, 3/4", XZN-M18

For loosening or tightening the wheel bearing central bolt on the rear axle.



KL-4999-120 A / -121 A Workshop/assembly trolley MODULO

Information and technical data on the workshop/assembly trolley.



SINGLE COMPONENT OVERVIEW

This overview shows, sorted numerically by item number, the **position** of the individual parts in the corresponding **insert** and is intended to facilitate a search.

Part no.	Designation	Insert / position
643	Brake calliper brush	1 / 3
19 10	Socket, 10mm	1 / 25
19 13	Socket, 13mm	1 / 26
19 22	Socket, 22mm	1 / 27
19 8	Socket, 8mm	1 / 24
1993 U-20	Reversible ratchet, 1/2"	1 / 31
6 22X27	Double open-ended spanner	1 / 34
6 30X36	Double open-ended spanner	1 / 35
7 R 22	Combination ratchet spanner UD profile 22 mm	1 / 33
D 32 36	Socket 3/4" 36mm	1 / 10
IN K 32 17	Power screwdriver bit 3/4" 17mm	1 / 12
IN K 32 19	Power screwdriver bit 3/4" 19mm	1 / 11
KL-0039-1002	Adapter for clamping nut and pressure spindle	1 / 29
KL-0039-1003	Adapter for hydraulic cylinder	1 / 30
KL-0039-1011	Mounting adapter for mechanical spindle	1 / 28
KL-0039-1140 V	Press frame, reinforced	2 / 18
KL-0039-1260	Thrust ring 60mm dia.	2 / 5
KL-0039-1264	Thrust ring 64mm dia.	2 / 5
KL-0039-1265	Thrust ring 65mm dia.	2 / 5
KL-0039-1268	Thrust ring 68mm dia.	2 / 5
KL-0039-1272	Thrust ring 72mm dia.	2 / 5
KL-0039-1273	Thrust ring 73mm dia.	2 / 5
KL-0039-1274	Thrust ring 74mm dia.	2 / 5
KL-0039-1280	Thrust ring 80mm dia.	2 / 5
KL-0039-1282	Thrust ring 82mm dia.	2 / 5
KL-0039-1283	Thrust ring 83mm dia.	2 / 5
KL-0039-1285	Thrust ring 85mm dia.	2 / 5
KL-0039-1288	Thrust ring 88mm dia.	2 / 5
KL-0039-1289	Thrust ring 89mm dia.	2 / 5
KL-0039-1296	Thrust ring 96mm dia.	2 / 5
KL-0039-1334	Centring ring, 34mm dia.	2 / 10
KL-0039-1338	Centring ring, 38mm dia.	2 / 10
KL-0039-1339	Centring ring, 39mm dia.	2 / 10
KL-0039-1340	Centring ring, 40mm dia.	2 / 10
KL-0039-1341	Centring ring, 41mm dia.	2 / 10

Part no.	Designation	Insert / position
KL-0039-1342	Centring ring, 42mm dia.	2 / 10
KL-0039-1343	Centring ring, 43mm dia.	2 / 10
KL-0039-1345	Centring ring, 45mm dia.	2 / 10
KL-0039-1401	Bearing cover	2 / 3
KL-0039-1402	Housing	2 / 4
KL-0039-1413	Centring ring, 70mm dia.	2 / 3
KL-0039-1414	Centring ring, 75mm dia.	2 / 3
KL-0039-1415	Centring ring, 80mm dia.	2 / 3
KL-0039-1502	Thrust ring, 93mm dia.	2 / 5
KL-0039-1506	Centring ring, 60mm dia.	2 / 5
KL-0039-1630	Pressure/support sleeve, short, 30 / 22mm dia.	2 / 20
KL-0039-1640	Pressure/support sleeve, short, 30 / 22mm dia.	2 / 19
KL-0039-1646	Pressure/support sleeve, short, 46 / 38mm dia.	2 / 21
KL-0039-1650	Pressure/support sleeve, short, 50 / 42mm dia.	2 / 20
KL-0039-1654	Pressure/support sleeve, short, 54 / 46mm dia.	2 / 21
KL-0039-1658	Pressure/support sleeve, short, 58 / 50mm dia.	2 / 20
KL-0039-1664	Pressure/support sleeve, short, 64 / 56mm dia.	2 / 21
KL-0039-1666	Pressure/support sleeve, short, 66 / 58mm dia.	2 / 19
KL-0039-1670	Pressure/support sleeve, short, 70 / 62mm dia.	2 / 20
KL-0039-1672	Pressure/support sleeve, short, 72 / 64mm dia.	2 / 21
KL-0039-1674	Pressure/support sleeve, short, 74 / 66mm dia.	2 / 19
KL-0039-1682	Pressure/support sleeve, short, 82 / 74mm dia.	2 / 19
KL-0039-1744	Pressure/support sleeve, long, 44 / 36mm dia.	2 / 22
KL-0039-1750	Pressure/support sleeve, long, 50 / 42mm dia.	2 / 23
KL-0039-1756	Pressure/support sleeve, long, 56 / 48mm dia.	2 / 22
KL-0039-1762	Pressure/support sleeve, long, 62 / 54mm dia.	2 / 23
KL-0039-1766	Pressure/support sleeve, long, 66 / 58mm dia.	2 / 24
KL-0039-1770	Pressure/support sleeve, long, Ø 70 / 62mm	2 / 25
KL-0039-1774	Druck-/Stützhülse lang 74 / 66mm dia.	2 / 26
KL-0039-1778	Pressure/support sleeve, long, 78 / 70mm dia.	2 / 24
KL-0039-1782	Pressure/support sleeve, long, 82 / 74mm dia.	2 / 25
KL-0039-1784	Pressure/support sleeve, long, 84 / 76mm dia.	2 / 26
KL-0039-1802	Centring sleeve, long, 27.4mm dia	2 / 14
KL-0039-1803	Centring sleeve, long, 29.7mm dia.	2 / 15
KL-0039-1910-2	Collar nut M10x1.25	1 / 21
KL-0039-1912-1	Pulling spindle M12 for hydr. cylinder	1 / 7
KL-0039-1912-2	Collar nut M12	1 / 20

SINGLE COMPONENT OVERVIEW

Part no.	Designation	Insert / position
KL-0039-1920-1	Pulling spindle M20 for hydr. cylinder	1 / 8
KL-0039-1930	Thrust spindle M20 x 350mm	1 / 4
KL-0039-1935	Thrust piece	2 / 11
KL-0039-2010-1	Pulling spindle M10x1.25 for mechanical drive	1 / 5
KL-0039-2012-1	Pulling spindle M12 for mechanical drive	1 / 6
KL-0039-2110-2	Quick-release nut M10 x 1.25	1 / 17
KL-0039-2112-2	Quick-release nut M12	1 / 16
KL-0039-2120-2	Quick-release nut M20	1 / 13
KL-0039-2192	Conical adapter for quick-release nut M20	1 / 14
KL-0040-2500	Hydraulic cylinder 17t	1 / 23
KL-0040-3009	Clamping nut M20	1 / 18
KL-0041-3800 A	Wheel hub extractor basic unit with adjusting spindle	2 / 16
KL-0041-3812	Clamping nut 30mm dia., M20	1 / 19
KL-0041-3931	Pressure screw M14x1.5	2 / 2
KL-0041-4400 C	Pair of clamping jaws, 72mm dia.	2 / 1
KL-0041-4500 B	Pair of clamping jaws, 85mm dia.	2 / 1
KL-0041-4600 E	Pair of clamping jaws, 78mm dia.	2 / 1
KL-0041-4601	Guide bushing, 29.5mm dia.	2 / 13
KL-0041-4602	Guide bushing, 26.3mm dia.	2 / 12
KL-0041-4607	Housing	2 / 7
KL-0041-4608 D	Cover	2 / 7
KL-0049-31	Impact extractor 4.8kg with adapter 2¼"-14 UNS	1 / 9
KL-0049-360 A	Hook for impact extractor	2 / 17
KL-0174-240	Perforated disc size 2 (3, 4, and 5 holes)	2 / 8
KL-0174-559	Adapter 2¼"-14 UNS to 2¼"-14 UNS	2 / 8
KL-0174-701	Hexagon collar nut M14	2 / 9
KL-0174-722	Tension bolt, type B, M12 x 1.25	2 / 6
KL-0174-723	Tension bolt, type B, M12 x 1.5	2 / 6
KL-0174-724	Pull bolt, type B, M14 x 1.5	2 / 6
KL-0174-763	Pull bolt, type M, M12 x 1.5	2 / 6
KL-0192-5	Circlip pliers	1 / 32
KL-0214-2202	Spacer ring 30mm dia.	1 / 22
KL-4007-411	Screwdriver bit, width 24	1 / 1
KL-4014-4224	Schraubendreher-Einsatz SW24	1 / 2
KL-4031-4118	Screwdriver bit XZN M18	1 / 15