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WHEEL BEARING SYSTEM PP I

Tool set for compact wheel hub/bearing unit

- Includes spindle M18/M20
- Enables use directly on the vehicle
- Minimum labour - high time savings
- Safe and simple use
- Use also in connection with workshop press
- Possible expansion for bearing Ø 62+66 mm
- Special steel

Application area: Audi A2 from MY 00, Skoda Fabia from MY 00, Volkswagen Polo from MY 02 / Fox from MY 05, Seat Ibiza from MY 02, etc.

		Ø mm	kg
150.2145	10 pcs	72,0	9.74

consists of:

	X		kg
150.2146	1	Drive unit, 3 pcs	0.54
150.2134	1	Pressure bell universal with bore hole M22	2.10
150.2133	1	Half cup pair black for bearing Ø72mm	1.71
150.2149	1	Thrust piece for 150.2143	0.43
150.2138	3	Fixing screw for half cup, M14x1,5	0.05

Drive spindle

- As complement to wheel bearing puller 150.2145-1
- Special steel

Technical data:

Thread:	M20
Drive spindle:	External hexagon 22,0 mm
Drive nut:	External hexagon 30,0 mm

		L mm	kg
150.2146	3 pcs	300.0	540

VAG wheel bearing tool set

- For the new VAG models with wheel housings/hub unit
- Required for the correct installation
- High time saving - faster execution at workshop press than at the vehicle ideally suited for Wheel bearing diameters 62 mm / 66 mm / 72 mm (13 "/ 14 "/ 15 „-undercarriages)
- The extension of the wheel housing takes place by means of the available workshop facility

Application range: Volkswagen-Polo new, Audi A2, Skoda Fabia, Seat Ibiza

			kg
150.2130	14 pcs	VAG wheel bearing tool set	17.20

consists of:

	X		kg
150.2131	1	Half cup pair anodised for bearing Ø62mm	1.99
150.2132	1	Half cup pair chrome for bearing Ø66mm	1.46
150.2133	1	Half cup pair black for bearing Ø72mm	1.71
150.2134	1	Pressure bell universal with bore hole M22	2.10
150.2135	1	Thrust bearing, 66/72mm,L=160mm	4.20
150.2136	1	Thrust bearing, 62mm, L=160mm	4.03
150.2137	2	Fixing screw for half cup, M12x1,5	0.03
150.2138	3	Fixing screw for half cup, M14x1,5	0.05

Half cup auxiliary kit Ø 62 mm

- As complement to 150.2145
- Special steel

Application range: Volkswagen Lupo, Audi A2 1,2L, etc.

		Ø mm	kg
150.2141	5 pcs	62,0	3.00

consists of:

	X		g
150.2147	1	Thrust piece for 150.2141	427
150.2131	1	Half cup pair anodised for bearing Ø62mm	1990
150.2137	2	Fixing screw for half cup, M12x1,5	30

Half cup auxiliary kit Ø 66 mm

- As complement to 150.2145
- Special steel

Application range: Volkswagen Polo from MY 02, Skoda Fabia from MY 00, etc.

		Ø mm	kg
150.2142	6 pcs	66,0	3.10

consists of:

	X		g
150.2148	1	Thrust piece for 150.2142	427
150.2132	1	Half cup pair chrome for bearing Ø66mm	1460
150.2138	3	Fixing screw for half cup, M14x1,5	50

Half cup auxiliary kit Ø 72 mm

- As complement to 150.2145
- Special steel

Application range: Audi A2 from MY 00, Skoda Fabia from MY 00, Volkswagen Polo from MY 02 / Fox from MY 05, Seat Ibiza from MY 02, etc.

		Ø mm	kg
150.2143	6 pcs	72,0	2.90

consists of:

	X		g
150.2149	1	Thrust piece for 150.2143	427
150.2133	1	Half cup pair black for bearing Ø72mm	1710
150.2138	3	Fixing screw for half cup, M14x1,5	50

Half-shell expansion set Ø 78 mm

- To expand 150.2145
- Special steel

Application range: Ford Focus, Volvo

			kg
150.2144	3 pcs	Half-shell expansion set Ø 78 mm	2.50

consists of:

		kg
150.2144-2	Pressure piece, 80 x 20 x 22 mm	0.61
150.2144-1	Half-shell set, 2 pcs (gold)	1.84

HYDRAULIC SYSTEM PP II

Pressure and pull hydraulic cylinder set

- For the assembly and disassembly of silent bearings, steering pin bolts, wheel bearings, etc.
- Can be used in the narrowest of spaces
- With adjustable pressure rods and impact body
- With automatic piston return
- Special steel

Technical data cylinder

Capacity:	8.5 t
Connection thread:	Cejn quick coupling
Piston:	industrial forged execution
piston-inner thread:	M22
outer thread:	1.1/2"
Stroke:	25.0 mm

			kg
440.0020	4 pcs	Pressure and pull hydraulic cylinder set	2.19

consists of:

		g
440.0021	Hydraulic cylinder, 8.5 t	1800
440.0022	Impact body with sealing ring	140
440.0023	Adjustable pressure rod M22, L = 100 mm	240
440.0024	(CEJN-) Nipple hydraulic for connection thread 1/8"	10

Pressure and pull hydraulic cylinder set, 16t

- For the assembly and disassembly of silent bearings, steering pins, track rod ends, wheel bearings, etc.
- Suitable for both pressurised and tensioned uses
- With impact body for screwing in
- Extremely high and uniform power construction
- Universal usage with reduction M10-M22
- Special steel

Technical data cylinder

Capacity:	16 t
Connection thread:	Cejn quick coupling
Piston:	industrial forged execution
piston-inner thread:	M22
outer thread:	1.1/2"
Stroke:	67.0 mm

			kg
440.0005	10 pcs	Pressure and pull hydraulic cylinder set, 16t	5.48

consists of:

		g
440.0001	Hydraulic cylinder, 16 t	3380
440.0002	Pressure axle, M24 x 3 mm, L = 129.5 mm	600
440.0003	Pressure foot, M24 x 3 mm	90
440.0004	Adjustable pressure rod M24, L = 92 mm	240
440.0006	Protective ring for thread, 2.1/4"	100
440.0007	Collar nut, M18	80
440.0008	Pressure rod, M18/M22, L = 250 mm	440
440.0011	Impact body, M22 x 2.5 mm	220
440.0012	Adjustable pressure sleeve, M24, L = 132 mm	320
440.0009	(CEJN-) Nipple hydraulic for connection thread 1/4"	10

Pressure and pull hydraulic cylinder set

- For the assembly and disassembly of silent bearings, steering pins, track rod ends, wheel bearings, etc.
- Suitable for both pressurised and tensioned uses
- With impact body for screwing in
- Extremely high and uniform power construction
- Universal usage with reduction M10-M22
- With automatic piston return
- Ideally suited to transporters
- Special steel

Technical data cylinder

Capacity:	22 t
Connection thread:	Cejn quick coupling
Piston:	industrial forged execution
piston-inner thread:	M22
outer thread:	1.1/2"
Stroke:	70.0 mm

			kg
440.0010	10 pcs	Pressure and pull hydraulic cylinder set	6.90

consists of:

		g
440.0013	Hydraulic cylinder, 22 t	4640
440.0011	Impact body, M22 x 2.5 mm	220
440.0003	Pressure foot, M24 x 3 mm	90
440.0004	Adjustable pressure rod M24, L = 92 mm	240
440.0006	Protective ring for thread, 2.1/4"	100
440.0014	Pressure axle, M24 x 3, L = 151 mm	740
440.0016	Adjustable pressure sleeve, M24, L = 109 mm	340
440.0007	Collar nut, M18	80
440.0008	Pressure rod, M18/M22, L = 250 mm	440
440.0009	(CEJN-) Nipple hydraulic for connection thread 1/4"	10

Pressure and pull hydraulic cylinder set, 32t

- Optimal for universal use in car garages
- Suitable for both pressurised and tensioned uses
- Extremely high and uniform power construction
- Industrial design with forged piston
- Pressure of the hydraulic cylinders can be combined with the impact body with impact force during use
- Universal usage with reduction M10-M22
- Ideally used with transporters and commercial vehicles
- Special steel

Technical data cylinder

Capacity:	32 t
Connection thread:	Cejn quick coupling
Piston:	industrial forged execution
piston-inner thread:	M24
outer thread:	2.1/2"
Stroke:	113.0 mm

			kg
440.0025	6 pcs	Pressure and pull hydraulic cylinder set, 32t	9.35

consists of:

		g
440.0026	Hydraulic cylinder, 32 t	8020
440.0016	Adjustable pressure sleeve, M24, L = 109 mm	340
440.0027	Protective ring for thread, 2.5	200
440.0028	Collar nut, M22	100
440.0029	Pressure rod, M22, L = 250 mm	620
440.0009	(CEJN-) Nipple hydraulic for connection thread 1/4"	10

Short-stroke hydraulic cylinder set

- For the assembly and disassembly of silent bearings, steering pin bolts, wheel bearings, etc.
- With adjustable pressure rod
- Maximum pressure with little effort
- Especially for use with press tool and press stand 440.0190 and 440.0180
- With automatic piston return
- Special steel

Technical data cylinder

Capacity:	14 t
Connection thread:	Cejn quick coupling
Piston:	industrial forged execution
piston-inner thread:	M24
outer thread:	1.1/2"
Stroke:	55.0 mm

			kg
440.0015	3 pcs	Short-stroke hydraulic cylinder set	2.67

consists of:

		g
440.0017	Hydraulic cylinder, 14 t	2420
440.0004	Adjustable pressure rod M24, L = 92 mm	240
440.0009	(CEJN-) Nipple hydraulic for connection thread 1/4"	10

Pull rod, collar nut, adapter set

- Universal usage
- Extremely robust spindle with inductive hardened thread (M10-M22)
- Optimal use with trucks, transporters and commercial vehicle tools with corresponding reduction
- Ideally suited to hydraulic cylinders 440.0005, 440.0010 and 440.0020
- Special steel

Caution: The spindles must be greased before fi st use!

			kg
440.0040	13 pcs	Pull rod, collar nut, adapter set	1.98

consists of:

		g
440.0041	Pressure rod, M10	80
440.0042	Pressure rod, M12	180
440.0043	Pressure rod, M14	240
440.0008	Pressure rod, M18/M22, L = 250 mm	440
440.0029	Pressure rod, M22, L = 250 mm	620
440.0044	Adapter, M22-M10	50
440.0045	Adapter, M22-M12	50
440.0046	Adapter, M22-M14	40
440.0047	Collar nut, M10	20
440.0048	Collar nut, M12	20
440.0049	Collar nut, M14	60
440.0007	Collar nut, M18	80
440.0028	Collar nut, M22	100

Hydraulic foot pump set

- For simple acting press cylinder
- Safety valve for prevention against too much force
- With automatic return
- Includes hydraulic hose with quick coupling

Technical data:

Connection thread:	Cejn quick coupling
Volume:	0,75 l
Operating pressure:	700 bar
Tube length:	2200 mm

			kg
440.0060	4 pcs	Hydraulic foot pump set	7.83

consists of:

		g
440.0057	Hydraulic hose, 2200 mm	900
440.0058	Cejn quick coupling	200
440.0061	Hydraulic foot pump	6720
440.0070	Seal set	10

Pneumatic hydraulic pump set

- Pneumatic operation
- For simple acting press cylinder
- Safety valve for prevention against too much force
- With automatic return
- Includes hydraulic hose with quick coupling

Technical data:

Connection thread:	Cejn quick coupling
Volume:	1,4 l
Operating pressure:	700 bar
Tube length:	2200 mm

			kg
440.0055	3 pcs	Pneumatic hydraulic pump set	6.32

consists of:

		g
440.0056	Pneumatic hydraulic pump	5220
440.0057	Hydraulic hose, 2200 mm	900
440.0058	Cejn quick coupling	200

Manometer

- With Cejn quick coupling for direct coupling to all KS Tools hydraulic pumps
- With easy-to-read scale in psi and bar

Caution: The maximum pressure values for the hydraulic cylinder and given in the appropriate operator's manual

		g
440.0063	Manometer	500

ADAPTER

Klann hydraulic to KS PP2-tool

- For using the Klann hydraulic cylinder (17 t) with KS Tools tool 1.1/2" internal thread
- Adapter 2.1/4"-14 UNS (Klann thread) to 1.1/2" PP2
- Special steel

		kg
440.0038	Klann hydraulic to KS PP2-tool	1.08

KS hydraulic PP2 to Klann tools

- For use with the KS Tools hydraulic cylinder PP2 (8.5-22 t) with Klann special tool
- Adapter 1.1/2" PP2 to 2.1/4"-14 UNS (Klann thread)
- Special steel

		g
440.0036	KS hydraulic PP2 to Klann tools	200

KS hydraulic PP2 to Klann (commercial vehicles-commercial vehicles-special tools)

- For using the KS tools hydraulic cylinder PP2 (32t) with the Klann special tool (connection 2.3/4"-16 UNS)
- Adapter 2.1/2" PP2 to 2.3/4"-16 UNS (Klann thread)
- Special steel

		g
440.0409	KS hydraulic PP2 to Klann (commercial vehicles-commercial vehicles-special tools)	760

KS hydraulic PP2 to Sauer, Müller, KS PP1 tools

- For use of the KS Tools hydraulic cylinder PP2 (8,5-22 t) with Sauer-, Müller-, KS PP1 special tools
- Adapter 1.1/2" PP2 to 2.1/4"-16 UN (Sauer, Müller, KS PP1)
- Special steel

		g
440.0034	KS hydraulic PP2 to Sauer, Müller, KS PP1 tools	230

Paschke hydraulic to KS PP2 tools

- For using the Paschke hydraulic cylinder with KS Tools special tools PP2
- Adapter M68x2 mm (Paschke thread) to 1.1/2" PP2
- Special steel

		g
440.0407	Paschke hydraulic to KS PP2 tools	110

KS hydraulic to Paschke tools

- For using the Paschke KS Tools hydraulic cylinder PP2 (8,5-22 t) with Paschke special tools
- Adapter 1.1/2" PP2 auf M68x2 mm (Paschke thread)
- Special steel

		g
440.0408	KS hydraulic to Paschke tools	330

KS hydraulic PP2 to KS commercial vehicles-special tools

- For use with hydraulic cylinder PP2 (16 and 22 t) to KS Tools tools PP2 with 2.1/2" thread
- Adapter 1.1/2" PP2 to 2.1/2" thread PP2 (large traverse - commercial vehicles)
- Special steel

		g
440.0037	KS hydraulic PP2 to KS commercial vehicles-special tools	570

UNIVERSAL SPINDLE DRIVE

Mechanical spindle set

- Universally usable pressure rod including collar nut and pressure piece
- Extremely robust spindle with inductively hardened thread
- Ideally suited to tool sets 440.0075, 440.0065, 440.0095, 440.0100, 440.0073 and 440.0105
- Special steel

Caution: The spindles must be greased before fi st use!

			kg
440.0035	4 pcs	Mechanical spindle set	1.11

consists of:

		g
440.0031	Pressure rod with collar nut, M18, L = 330 mm	660
440.0032	Ring washer	60
440.0033	Pressure disk	310
440.0007	Collar nut, M18	80

WHEEL BEARING ASSEMBLY SYSTEM PP II

Universal tool set for compact wheel bearing assembly

- For the assembly of compact wheel bearings with and without securing ring
- Correct installation directly on the vehicle
- Max. load 22 t
- Adjustability allows for use on all compact bearing types
- Can be used with hydraulic cylinders or mechanical spindles
- Minimum work time
- Secure and easy to use
- Can be used alongside 440.0072, 440.0069, 440.0071 and 440.0064
- Special steel

Recommended hydraulic cylinder: 16 t (4400005) and 22 t (440.0010)
Application range: Volkswagen Polo, Lupo, Touareg, Fox, T5; Audi A2; Seat Ibiza, Cordoba; Škoda Fabia; Ford Focus, C-Max, Mondeo, S-Max, Kuga; Landrover Freelander 2; Mazda 3-5, 6, CX-7; Mercedes Sprinter, Vito; Volvo V50, S40, V70, S80, XC60; Mitsubishi Colt; Smart Forfour

			kg	
440.0065	9 pcs	Universal tool set for compact wheel bearing assembly	7.26	

consists of:

	X		g	
440.0066	1	Securing plate	2080	
440.0067	4	Press foot	1240	
440.0068	4	Screw, M14 x 30	60	

Assembly retainer plate Ford/Mazda/Volvo

- Ideal for compact bearing insertion as a retainer
- Secure and easy to use
- Optimal fit
- Suitable for spindle M20
- Special steel

Application range: Ford Mondeo, Focus, C-Max; Mazda 3, 6; Volvo V70, S40, V50

	Inner Ø mm	g	
440.0072	20.25	640	

Assembly ring Ford/Mazda/Volvo

- Ideal for pressing in compact bearings
- Special steel

Application range: Volvo V70 > 2007, Ford Mondeo, Mazda 6

		g	
440.0069	Assembly ring Ford/Mazda/Volvo	60	

Retainer plate assembly, Volkswagen

- Ideal for retaining during wheel bearing assembly
- Simple handling
- Suitable for spindle M20
- Special steel

Application range: Volkswagen T5, Touareg

	Inner Ø mm	g	
440.0071	20.25	840	

Assembly retainer plate Volkswagen/Audi/Seat/Škoda

- Ideal for compact bearing insertion as a retainer
- Simple handling
- Suitable for spindle M20
- Special steel

Application range: Volkswagen Polo, Lupo, Fox, Audi A2, Seat Ibiza, Cordoba, Škoda Fabia, Smart Forfour, Mitsubishi Colt

	Inner Ø mm	g	
440.0064	20.25	510	

WHEEL HUB DISASSEMBLY SYSTEM PP II

Universal tool for compact wheel bearing assembly

- For the disassembly of compact wheel bearings with or without securing ring
- Correct disassembly directly on the vehicle
- Max. load 22 t
- Adjustability ensures use on all compact bearing types
- Can be used with hydraulic cylinders or mechanical spindles
- Minimum work time
- Secure and easy to use
- Can be used alongside 440.0074
- Special steel

Recommended hydraulic cylinder: 16 t (4400005) and 22 t (440.0010)
Application range: Volkswagen Polo, Lupo, Touareg, Fox, T5; Audi A2; Seat Ibiza, Cordoba; Škoda Fabia; Ford Focus, C-Max, Mondeo, S-Max, Kuga; Landrover Freelander 2; Mazda: 3-5, 6, CX-7; Mercedes Sprinter, Vito; Volvo V50, S40, V70, S80, XC60; Mitsubishi Colt; Smart Forfour

		kg	
440.0073	Universal tool for compact wheel bearing assembly	7.32	

consists of:

		g	
440.0501	Locking screw M14	200	
440.0502	Screw M12	50	
440.0503	Traverse	2780	
440.0507	Disassembly - pressure foot set for compact wheel bearings, 2 pcs.	4200	

Universal disassembly disk, conical

- Conical disk for the assembly of compact wheel bearings
- Suitable for all sizes
- Special steel

		g	
440.0074	Universal disassembly disk, conical	110	

Universal wheel bearing drive axle hub set

- Universal front-wheel bearing set with combined wheel hub/ drive shaft frame
- Ideal for use alongside hydraulic cylinders or mechanical spindles
- For the assembly and disassembly of wheel bearings, hubs and drive shafts directly on the vehicle
- No removal of the ABS sender, axle joint, spring feet or track rod joint
- Saves a lot of time since the axle does not need to be measured again
- Secure and easy to use
- Can be used alongside 440.0095, 440.0150 and 440.0100
- Special steel

Recommended hydraulic cylinder: 16 t (4400005) and 22 t (440.0010)

			kg	
440.0075	16 pcs	Universal wheel bearing drive axle hub set	11.14	

consists of:

		g	
440.0076	Hub screw, Ø 32 mm	30	
440.0077	Hub screw, Ø 40 mm	70	
440.0078	Hub screw, Ø 45 mm	100	
440.0079	Hub screw, Ø 52 mm	130	
440.0081	Pressure disk	550	
440.0082	Adaptor for 440.0075	150	
440.0083	Retainer	810	
440.0084	Pressure tube	500	
440.0086	Bearing shell	780	
440.0087	Bearing screw, Ø 63 mm	300	
440.0088	Bearing screw, Ø 68 mm	350	
440.0089	Bearing screw, Ø 71 mm	400	
440.0091	Bearing screw, Ø 74 mm	440	
440.0092	Bearing screw, Ø 78 mm	480	
440.0093	Bearing screw, Ø 83 mm	550	
440.0094	Press frame for drive shaft and hub	5500	

Bearing and hub shell set

- Expansion for universal wheel bearing drive axle hub set (440.0075)
- Ideal for the assembly and disassembly of wheel bearings and hubs
- Secure and easy to use
- Special steel

Application range: Ford C-Max, Mazda 3, Volvo S40/V50, as well as certain models from Citroën, Peugeot, Renault and VAG with separated wheel bearings/hubs

			kg
440.0095	2 pcs	Bearing and hub shell set	4.98

consists of:

		kg
440.0096	Pressure disk, large	2.20
440.0097	Pressure pipe, large	2.78

Adjustable wheel bearing plate

- Ideally used when disassembling wheel bearings which are removed from the inside
- Allows for a fl t press surface with 3 installation screws
- The wheel bearings do not tilt
- Used together with the universal wheel bearing axle drive hub set (440.0075)
- Secure and easy to use
- Special steel

Application range: Citroën, Peugeot and Renault

			kg
440.0100	4 pcs	Adjustable wheel bearing plate	1.98

consists of:

	X		g
440.0102	3	screw	120
440.0103	1	Plate	1660

Separator screw set for Volkswagen wheel bearing

- Expansion for universal wheel bearing drive axle hub set (440.0075)
- Ideal for the assembly and disassembly of wheel bearings and hubs
- Special for Volkswagen models, front and rear
- Secure and easy to use
- Special steel

Application range: Volkswagen T5, Touareg

			g
440.0150	9 pcs	Separator screw set for Volkswagen wheel bearing	480

consists of:

	X		g
440.0132	2	Spacer screw, front	20
440.0133	1	Spacer bolt, front	200
440.0134	3	Spacer screw rear, drum brake	40
440.0137	3	Spacer screw, rear	40

Wheel bearing set, front for Ford

- For the assembly and disassembly of compact bearings on the front axle
- Correct installation and removal directly on the vehicle
- Wheel bearing replacement direct on the vehicle with minimal time required
- Replacing the brake disks or destroyed wheel bearings
- Secure and easy to use
- For use with hydraulic cylinder
- Special steel

Recommended hydraulic cylinder: 32 t (440.0025)
Application range: Ford Transit > 2000

			kg
440.0130	6 pcs	Wheel bearing set, front for Ford	9.25

consists of:

		g
440.0096	Pressure disk, large	2200
440.0097	Pressure pipe, large	2780
440.0111	Hub disk	110
440.0131	Hub tool, Ford Transit	3000
440.0113	Bearing disk	470
440.0098	Pressure tube	690

Wheel bearing set, rear for Ford

- For assembly and disassembly on compact bearings on the rear axle
- Correct installation and removal directly on the vehicle
- M14 x 2 special nuts for the best centring
- Ideal for 5 hole hubs
- Secure and easy to use
- For use with hydraulic cylinder
- Special steel

Recommended hydraulic cylinder: 32 t (440.0025)
Application range: Ford Transit > 2000

			kg
440.0135	6 pcs	Wheel bearing set, rear for Ford	4.53

consists of:

		g
440.0124	Drive shaft press out device, 5 hole	4080
440.0136	Special nut set, 5 pcs, M14 x 2	450

Wheel bearing set, front for Renault/Nissan/Opel

- For the assembly and disassembly of compact bearings on the front axle
- Correct installation and removal directly on the vehicle
- Minimum work time
- Secure and easy to use
- No damage to the ABS sender
- Special steel

Recommended hydraulic cylinder: 32 t (440.0025)
Application range: Renault Master, Nissan Interstar, Opel Movano > 2010

			kg
440.0165	8 pcs	Wheel bearing set, front for Renault/ Nissan/Opel	12.81

consists of:

		g
440.0166	Pressure sleeve, front for Renault/Nissan/ Opel	1060
440.0111	Hub disk	110
440.0112	Pressure disk, Ø 167 mm	3170
440.0113	Bearing disk	470
440.0127	Pressure tube	3620
440.0098	Pressure tube	690
440.0085	Pressure ring set for wheel bearing set, front, 4 pcs	2760
440.0162	Pressure disk	930

Wheel bearing set, front for Nissan/Opel/Renault

- For the assembly and disassembly of compact bearings on the front axle
- Correct installation and removal directly on the vehicle
- Minimum work time
- Secure and easy to use
- No damage to the ABS sender
- Special steel

Recommended hydraulic cylinder: 16 t (440.0005), 22 t (440.0010), 32 t (440.0025)
Application range: Nissan Primastar, Opel Vivaro, Renault Trafi

			kg
440.0155	8 pcs	Wheel bearing set, front for Nissan/ Opel/Renault	9.62

consists of:

		g
440.0083	Retainer	810
440.0084	Pressure tube	500
440.0139	Bearing disk Ø 57 mm	250
440.0093	Bearing screw, Ø 83 mm	550
440.0138	Bearing disk Ø 88 mm	610
440.0111	Hub disk	110
440.0112	Pressure disk, Ø 167 mm	3170
440.0127	Pressure tube	3620

Wheel bearing set, front for Citroën/Fiat/Peugeot

- For the assembly and disassembly of compact bearings on the front axle
- Only for use alongside the bearing disk (440.0113) and hub disk (440.0123)
- Correct installation and removal directly on the vehicle
- Minimum work time
- Secure and easy to use
- No damage to the ABS sender
- For all models >2007 the press ring (440.0085) must be used
- Special steel

Recommended hydraulic cylinder: 32 t (440.0025)
Application range: Citroën Jumper, Fiat Ducato, Peugeot Boxer, < 2007

			kg	
440.0125	8 pcs	Wheel bearing set, front for Citroën/ Fiat/Peugeot	11.71	

consists of:

		g	
440.0126	Press ring	1290	
440.0112	Pressure disk, Ø 167 mm	3170	
440.0127	Pressure tube	3620	
440.0128	Bearing disk	970	
440.0129	Retainer	1610	
440.0098	Pressure tube	690	
440.0099	Hub disk	160	
440.0104	Drive nut, M22	200	

Wheel bearing set, rear for Citroën/Fiat/Ford/Peugeot

- For assembly and disassembly on compact bearings on the rear axle
- Ideally suited as a drive shaft tool for all 5 hole hubs
- Correct installation and removal directly on the vehicle
- Minimum work time
- Secure and easy to use
- No damage to the ABS sender
- Suitable for all transport vehicles
- Special steel

Recommended hydraulic cylinder: 32 t (440.0025)
Application range: Citroën Jumper, Fiat Ducato, Peugeot Boxer, Ford Transit

			kg	
440.0120	6 pcs	Wheel bearing set, rear for Citroën/ Fiat/Ford/Peugeot	7.06	

consists of:

		g	
440.0011	Impact body, M22 x 2.5 mm	220	
440.0113	Bearing disk	470	
440.0121	Pressure sleeve	1620	
440.0122	Adapter ring	450	
440.0123	Hub disk for wheel bearing set, front Citroën/ Fiat/Ford/Peugeot	220	
440.0124	Drive shaft press out device, 5 hole	4080	

Wheel bearing set, front for Renault/Nissan/Opel 2002-2010

- For the assembly and disassembly of compact bearings on the front axle
- Correct installation and removal directly on the vehicle
- Minimum work time
- Secure and easy to use
- No damage to the ABS sender
- For all models >2010 the press sleeve (440.0166) and the press ring set (440.0085) must be used
- Special steel

Recommended hydraulic cylinder: 16 t (440.0005), 22 t (440.0010), 32 t (440.0025)
Application range: Nissan Interstar, Opel Movano, Renault Master 2002-2010

			kg	
440.0160	9 pcs	Wheel bearing set, front for Renault/ Nissan/Opel 2002-2010	13.93	

consists of:

		g	
440.0085	Pressure ring set for wheel bearing set, front, 4 pcs	2760	
440.0098	Pressure tube	690	
440.0111	Hub disk	110	
440.0112	Pressure disk, Ø 167 mm	3170	
440.0113	Bearing disk	470	
440.0127	Pressure tube	3620	
440.0161	Bearing shell	1540	
440.0162	Pressure disk	930	
440.0163	Pressure disk	640	

Bearing disk for wheel bearing set, front Citroën/Fiat/ Ford/Peugeot

- For expanding the wheel bearing set, front 440.0125, if the wheel bearing set, rear (440.0120) is not available
- Special steel

		g	
440.0113	Bearing disk for wheel bearing set, front Citroën/Fiat/Ford/Peugeot	470	

Hub disk for wheel bearing set, front Citroën/Fiat/Ford/ Peugeot

- For expanding the wheel bearing set, front (440.0125), if the wheel bearing set, rear (440.0120) is not available
- Special steel

		g	
440.0123	Hub disk for wheel bearing set, front Citroën/ Fiat/Ford/Peugeot	220	

Press ring set for wheel bearing set, front

- Press ring for expansion of the various wheel bearing sets (440.0125 and 440.0160)
- Special steel

Application range: Citroen Jumper, Fiat Ducato, Peugeot Boxer > 2007, Renault > 2010, Nissan > 2010, Opel > 2010

			kg	
440.0085	4 pcs	Press ring set for wheel bearing set, front	2.76	

Pressure sleeve, front for Renault/Nissan/Opel

- Press sleeve for wheel bearing set (440.0160)
- Ideally suited to expanding the set for the wheel bearing assembly on models >2010
- Special steel

			kg	
440.0166		Pressure sleeve, front for Renault/Nissan/ Opel	1.06	

Drive shaft press out device, 5 hole

- Specially for the removal of rusty and stuck drive shafts directly on the vehicle
- Suitable for all transport vehicles with 5 hole hubs
- For hole diameters of 100-170 mm
- Ideal for the disassembly of the wheel hub with hydraulic cylinder
- No damage to the drive shaft or other parts
- Secure and easy to use
- Minimum work time
- Special steel

Recommended hydraulic cylinder: 32 t (440.0025)
Application range: Transport vehicles

			kg	
440.0124		Drive shaft press out device, 5 hole	4.08	

Wheel hub set, front for Renault

- Expansion for wheel bearing set (440.0160)
- Ideal for the removal of wheel hubs and wheel bearings
- Secure and easy to use
- Optimal usage for brake disks mounted behind the wheel hub
- Pressing out the hub with the help of the wheel hub tool (440.0124)
- Minimum work time
- Special steel

Recommended hydraulic cylinder: 32 t (440.0025)
Application range: Renault Master, models with the brake disks mounted behind the wheel hub

			kg	
440.0170	7 pcs	Wheel hub set, front for Renault	3.44	

consists of:

	x		g	
440.0171	3	Pressure piece	980	
440.0172	1	Press cone	1000	
440.0173	1	Cover	740	
440.0174	1	Disassembly ring	640	
440.0007	1	Collar nut, M18	80	

Wheel hub puller set, Iveco

- Special tool for removing the prop shaft or the wheel hub
- Ideal for use with a hydraulic cylinder
- Easy installation and easy handling
- Special steel

Recommended hydraulic cylinder: 16 t (440.0005), 22 t (440.0010)
Application range: Iveco Daily 29-50

			kg	
440.0140	4 pcs	Wheel hub puller set, Iveco	1.42	

consists of:

	x		g	
440.0114	3	Screw M14 x 40	60	
440.0168	1	Plate	1240	

Wheel bearing set, rear for Mercedes

- For assembly and disassembly on compact bearings on the rear axle
- Correct installation and removal directly on the vehicle
- Minimum work time
- Secure and easy to use
- No damage to the ABS sender
- Special steel

Recommended hydraulic cylinder: 16 t (4400005) and 22 t (440.0010)
Application range: Mercedes Vito, Viano (W639) 2003-2010

			kg	
440.0090	10 pcs	Wheel bearing set, rear for Mercedes	8.31	

consists of:

	x		g	
440.0071	1	Assembly retainer plate for VW	840	
440.0078	1	Hub screw, Ø 45 mm	100	
440.0081	1	Pressure disk	550	
440.0084	1	Pressure tube	500	
440.0087	1	Bearing screw, Ø 63 mm	300	
440.0092	1	Bearing screw, Ø 78 mm	480	
440.0094	1	Press frame for drive shaft and hub	5500	
440.0137	3	Spacer screw, rear	40	

Wheel bearing set for Volkswagen/Audi/Porsche

- For assembly and disassembly on compact bearings on the front and rear axle
- Correct installation and removal directly on the vehicle
- Minimum work time
- Secure and easy to use
- No damage to the ABS sender
- Special steel

Recommended hydraulic cylinder: 16 t (440.0005), 22 t (440.0010) and 32 t (440.0025)
Application range: Audi Q7, Volkswagen Touareg, Porsche Cayenne

			kg	
440.0105	10 pcs	Wheel bearing set for Volkswagen/ Audi/Porsche	10.33	

consists of:

		g	
440.0084	Pressure tube	500	
440.0106	Pressure tube	1780	
440.0107	Pressure tube	2500	
440.0108	Bearing disk	870	
440.0109	Bearing disk	930	
440.0113	Bearing disk	470	
440.0111	Hub disk	110	
440.0112	Pressure disk, Ø 167 mm	3170	

WHEEL HUB TOOL SYSTEM PP III

Universal car wheel bearing tool set

- For the dismantling and assembly of wheel housings and hub directly on the vehicle
- Extension of the suspension strut and axle joint is no longer required
- Correct and protective installation of the housings through the correct pressure point at the bearing outer ring
- Suited for axle tube and for axle with the housing adjoining at an alliance
- High time savings as reactive axle alignment is not necessarily required
- 300 mm gear pulling spindle
- Through enclosed bolts (M12 + M14) wheel hubs can be removed
- Pressure bearing protects against increased friction during the process
- Special steel
- In durable plastic storage case

Application range: Volkswagen, Audi, Opel, Mercedes Benz, Peugeot, Citroen, Renault, Ford, Honda, Mazda, Mitsubishi, Nissan, Toyota, Austin-Maestro, BMW

			kg	
150.2250	31 pcs	Universal car wheel bearing tool set	11.24	

consists of:

		g	
150.2092	Threaded bolt, f.150.2250, M12x1,5 3p	100	
150.2093	Threaded bolt, f.150.2250, M14x1,5 3p	120	
150.2251	Bearing plate #1 f.150.2250	525	
150.2252	Bearing plate #2 f.150.2250	458	
150.2253	Bearing plate #3 f.150.2250	432	
150.2254	Bearing plate #4 f.150.2250	386	
150.2255	Bearing plate #5 f.150.2250	358	
150.2256	Bearing plate #6 f.150.2250	340	
150.2257	Bearing plate #7 f.150.2250	304	
150.2258	Bearing plate #8 f.150.2250	344	
150.2259	Bearing plate #9 f.150.2250	304	
150.2260	Bearing plate #10 f.150.2250	282	
150.2261	Bearing plate #11 f.150.2250	247	
150.2262	Bearing plate #12 f.150.2250	200	
150.2263	Bearing plate #13 f.150.2250	217	
150.2264	Bearing plate #14 f.150.2250	203	
150.2265	Stepped plate, small f.150.2250,Ø77+68mm	608	
150.2266	Stepped plate, large f.150.2250,Ø92+81mm	879	
150.2267	Puller sleeve f.150.2250, 68mm	399	
150.2268	Puller sleeve f.150.2250, 77mm	552	
150.2269	Puller sleeve f.150.2250, 81mm	639	
150.2270	Puller sleeve f.150.2250, 92mm	707	
150.2271	Spindle sleeve f.150.2250	227	
150.2272	Thrust bolt f.150.2250	230	
150.2273	Washer f.150.2250	20	
150.2274	Spindle f.150.2250	911	
150.2275	Bearing f.150.2250	55	

Universal car wheel bearing tool set

- For the dismantling and assembly of wheel housings and hub directly on the vehicle
- Extension of the suspension strut and axle joint is no longer required
- Suited for axle tube and for axle with the housing adjoining at an alliance
- High time savings as reactive axle alignment is not necessarily required
- With 300 mm gear pulling spindle
- Through enclosed bolts (M12 + M14) wheel hubs can be removed
- Extra long execution 65 mm pressure nut for better load distribution
- Pressure bearing protects against increased friction during the process
- Special steel
- In durable plastic storage case

Application range: Volkswagen, Audi, Opel, Mercedes Benz, Peugeot, Citroen, Renault, Ford, Honda, Mazda, Mitsubishi, Nissan, Toyota, Austin-Maestro, BMW

			kg	
150.2075	19 pcs	Universal car wheel bearing tool set	7.51	

consists of:

		g	
150.2076	Ball bearing Adaptor 55.5 mm	175	
150.2077	Ball bearing Adaptor 59 mm	200	
150.2078	Ball bearing Adaptor 62 mm	220	
150.2079	Ball bearing Adaptor 65 mm	245	
150.2080	Ball bearing Adaptor 66 mm	250	
150.2081	Ball bearing Adaptor 71.5 mm	315	
150.2082	Ball bearing Adaptor 73 mm	335	
150.2083	Ball bearing Adaptor 78 mm	380	
150.2084	Ball bearing Adaptor 84 mm	470	
150.2085	Reducing sheath 76 mm	270	
150.2086	Bell 88 mm	850	
150.2087	Bell 91 mm	920	
150.2089	Spindle includes Nut, bearing, Discs and sheaths	540	
150.2092	Threaded bolt Set M12 x 1.5 (3 pieces)	100	
150.2093	Threaded bolt Set M14 x 1.5 (3 pieces)	120	

Wheel bearing tool kit Ford Transit

- For the assembly and disassembly of the compact wheel hub/ bearing unit
- Correct installation and removal directly on the vehicle
- Minimum work time
- Secure and easy to use
- Special steel
- In durable plastic storage case

Application range: Front axle Ford Transit from 2006

			kg	
150.2370	17 pcs	Wheel bearing tool kit Ford Transit	8.77	

consists of:

		g	
150.2371	Counter bracket f. wheel hub fla ge	570	
150.2372	Wheel hub fla ge with threaded adaptor 1.1/2" x 16G	2310	
150.2373	Pressure plate big	350	
150.2374	Pressure plate small	160	
150.2375	Locking pin f. wheel hub fla ge, 5 pcs	260	
150.2376	Thrust bolt 1.1/2" x 16G	2030	
150.2377	Half shell coupling for bearing ring, 2 pcs	910	
150.2378	Trailing arm f. half shell coupling , 3 pcs	405	
150.2379	Locking pin f. half shell coupling, 2 pcs	60	

Wheel bearing tool set

- Removal and installation of the compact wheel hubs / bearing unit
- Enables de -and assembly directly on the vehicle
- Minimum labour
- Safe and simple use
- Special steel
- In durable plastic storage case

Application range: Volkswagen T5 Transporter

			kg	
150.2350	13 pcs	Wheel bearing tool set	20.00	

consists of:

		g	
150.2351	Cross member with threaded ring	2600	
150.2352	Tie rod set, 2 pcs	1100	
150.2353	Half cup mounting, 2 pcs	4950	
150.2354	Half cup set, 2 pcs Removal	1700	
150.2355	Half cup set, 2 pcs Installation	1900	
150.2356	Thrust piece removal	550	
150.2357	Thrust piece installation	950	
150.2358	Trapezoidal threaded spindle with 2x thrust beating and nut	1250	
980.1085	Special thread grease	22	

ABS ROTOR TOOL

Special nut for ABS rotor, Jaguar

- Ideally suited to the assembly and disassembly of the ABS rotors, e.g. when changing the wheel bearings
- Internal square in accordance with DIN 3121 / ISO 1174
- Special profil
- For manual operation
- Matt finis
- Chrome vanadium

Application range: Jaguar XK8 and XKR (X100) 3.5/XK8 and XKR (X100) 5.0/Jaguar XJ8 and XJR (X308) 3.2 and 4.0/all S Type V8/all XF V8/all XJ (X351) V8

3/4"

	Height mm	Ø mm	g	
150.2490	62.0	70,0	760	

WHEEL HUB TOOL SYSTEM PP I

Universal slide hammer

- Extra heavy and solid execution
- For universal use for automobiles + trucks
- Enormous impact delivery of up to 11 tonnes
- With 6 kg impact weight
- Includes 3 kg additional weight
- With M 20 x 1.5 mm connection thread
- Additional weights can be screwed together
- Special steel

	L mm	kg	
700.1415	850.0	12.00	

accessories:

		kg	
700.1411	Wheel hub/drive fla ge dismatling tool	2.55	
700.1421	Adaptor ET UN 1.1/2" x IT M20 x 1.5	0.72	
700.1423	Adaptor for double hook	0.27	
700.1424	Universal hook M20 x 1.5 for ball joints + car body	2.40	
700.1425	Double hook	0.75	
700.1428	Adaptor ET UN 1.1/2" x IT M16 x 2.0	0.72	
700.1430	Adaptor ET UN 1.1/2" x IT M16 x 1,5	0.72	
152.1056	Single screw adaptor AG M17 x 1	0.24	

Universal wheel hub extractor set

- Extra heavy and solid execution
- For the extension of the wheel hub
- Ideal for passenger cars and small vans
- Enormous impact delivery of up to 11 t
- With 6 kg impact weight
- Includes 3 kg additional weight
- With M 20 x 1.5 mm connection thread
- Weights variably attachable and removable
- Special steel

	Rim diameter Ø mm	Bolt Ø mm	mm	L mm	kg
700.1420	98-138	max. M14	AG M20x1,5	930.0	15.27

consists of:

		kg
700.1411	Wheel hub/drive fla ge dismatling tool	2.55
700.1415	Universal slide hammer 6 + 3 kg, 850mm	12.00
700.1421	Adaptor ET UN 1.1/2" x IT M20 x 1.5	0.72

Wheel hub and bearing dismantling set

- Special tool for expressing the joint hubs or drawing off of the wheel hub
- Massive tool, made out of a one piece
- Special steel

			kg
700.1410	7 pcs	Wheel hub and bearing dismantling set	4.80

consists of:

		g
700.1411	Wheel hub/drive fla ge dismatling tool	2550
700.1400-1	Hydraulic spindle with centering point - Ag 1.1/2" x 16 G	1344
700.1412	Reception ring set, 5 pcs.	150

Wheel hub and bearing extractor supplement set

- By means of this supplement assortment wheel hubs with a hub alliance of more than Ø 75 mm can be correctly dismantled
- The wheel hub- and joint cover dismantling fla ge is through long thread bolts and Distance sheath is a slight distance away so the hub alliance can be placed
- Special bevelled edge which the hub can easily be replaced with contamination to the wheel hub housings
- Includes wall holder

			kg
700.1435	21 pcs	Wheel hub and bearing extractor supplement set	2.88

consists of:

		g
700.1436	Wall holder for supplement set	600
700.1437	Spacer sleeve, length 40 mm	115
700.1438	Threaded bolt M12 x 1.5 mm, length 80 mm	90
700.1439	Threaded bolt M14 x 1.5 mm, length 40 mm	90
700.1440	Threaded bolt M14 x 1.5 mm, length 80 mm	90

WHEEL HUB TOOL SYSTEM PP II

Impact hammer

- Ergonomic handle
- Ideal for use alongside the adapter (440.0119) and the drive shaft press out device set (440.0115) or the wheel hub disassembly set (440.0110)

	Connection thread mm	Impact weight kg	kg
440.0080	M18	5.20	7.60

Adapter for impact hammer

- Ideally used for adapting the drive shaft press out device set (440.0115) and the impact hammer (440.0080)
- Special steel

	Connection thread mm	g
440.0119	M18	430

Drive shaft press out device set, 4 and 5 hole

- Ideally suited to pressing out rusty and stuck drive shafts
- For all passenger cars and transporters with 4 and 5 hold hubs
- For hole diameters up to 120 mm
- Optimal for the disassembly of the wheel hub with a hydraulic cylinder or adapter (440.0119) and the impact hammer (440.0080)
- No damage to the drive shaft or other parts
- Secure and easy to use
- Minimum work time
- Special steel

Recommended hydraulic cylinder: 16 t (4400005) and 22 t (440.0010)

			kg
440.0115	2 pcs	Drive shaft press out device set, 4 and 5 hole	4.52

consists of:

		kg
440.0116	Drive shaft 4 hole, hole 98-120 mm	2.28
440.0117	Drive shaft 5 hole, hole 100-120 mm	2.24

Wheel hub disassembly set

- Ideally suited to the disassembly of the wheel hub with impact hammer (440.0080)
- Special steel

			g
440.0110	6 pcs	Wheel hub disassembly set	640

consists of:

		g
440.0076	Hub screw, Ø 32 mm	30
440.0077	Hub screw, Ø 40 mm	70
440.0078	Hub screw, Ø 45 mm	100
440.0079	Hub screw, Ø 52 mm	130
440.0007	Collar nut, M18	80
440.0118	Pressure rod, M18, L = 150 mm	230

WHEEL HUB TOOL SYSTEM PP III

Wheel hub impact puller

- Suitable for removing 4 and 5 hole wheel hubs
- Holes from 100 to 150 mm
- With 1.2 kg impact force
- Optimal grip with plastic handle
- Ideally used when replacing wheel bearings
- Simple handling
- Special steel

	Rim diameter Ø mm	Bolt Ø mm	Hammer Ø mm	Slide rail Ø mm	Adaptor thread mm	kg
670.0001	100-150	max. 14	60	60	M16 x 1,5	3.70

Universal wheel bearing puller and drive shaft puller, hydraulic

- Special tool for expressing the joint hubs or drawing off of the wheel hub
- Massive tool, made out of a one piece
- Special steel

			kg
700.1400	11 pcs	Universal wheel bearing puller and drive shaft puller, hydraulic	9.34

consists of:

		g
700.1400-1	Hydraulic spindle with centering point - Ag 1.1/2" x 16 G	1344
700.1400-2	Disc traverse 100 mm	920
700.1400-3	Puller pull arm set, 5 pcs	500
700.1400-4	Impact spanner, 30mm, L=200mm	935
700.1400-5	Impact spindle	2015
700.1400-7	Extension, small	60

Universal wheel hub extractor set

- For bolt circle diameter up to 250 mm
- Clamp foot hole for bolts 14 mm, 18 mm + 22 mm
- Special steel

			kg
670.0013	5 pcs	Universal wheel hub extractor set	3.60

Universal wheel hub extractor set

- For bolt circle diameter up to 250 mm
- Clamp foot hole for bolts 14 mm, 18 mm + 22 mm
- Special steel

			kg
670.0014	6 pcs	Universal wheel hub extractor set	4.10

Universal wheel hub extractor set

- For bolt circle diameter up to 250 mm
- Clamp foot hole for bolts 14 mm, 18 mm + 22 mm
- Special steel

			kg
670.0015	7 pcs	Universal wheel hub extractor set	4.60

BEARING RING TOOL

Universal bearing ring puller 2 arm with clamping yoke

- Clamp compresses hooks firm y
- Prevents slippage
- Pressure peak centers itself optimally in the cone of the hub boring
- Extremely robust spindle with inductively hardened thread
- Special steel

	A mm	B mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
700.1260	90	100	1,2	M16 x 150	17	6,5	8,5	22,5	27,1	1.76

Bearing ring puller 3-arm with clamping cone

- Ideally suited to the disassembly for the bearing internal shell
- With conical tension screw for proportional tension force distribution
- Self-centring jaw puller
- Central adjustment screw for different radii
- Ideal for confined spa es
- Extremely robust spindle with inductively hardened thread
- Special steel
- In durable plastic storage case

	A mm	B mm	mm	mm	D mm	E mm	F mm	G mm	kg
700.1270	10-125	96	21	M20x1,5 x 235	0,6	6	22	35	2.70

Bearing ring lever

- For removing tight fi ting bearing housings
- Ideally suited for the external rings of the split cone roll bearings
- Conventional tools are no longer required
- Rimed handle for better control
- Universal applications
- Special steel

		L mm	kg
450.0030	○	300.0	1.13
450.0031	⬢	500.0	1.89

PLIERS FOR SECURING RINGS

Securing ring tool set

- For assembly and disassembly of the securing rings on wheel bearings
- Strengthens the adjusting screw with 1/4" ratchet
- Simple handling
- Ideal for passenger cars and transporters
- Very easy to replace the stud
- Special steel

			g
440.0340	7 pcs	Securing ring tool set	770

consists of:

		g
440.0344	Securing ring tool	740
440.0341	Replacement pins, Ø 2.5 mm, 2 pcs.	10
440.0342	Replacement pins, Ø 3.0 mm, 2 pcs.	10
440.0343	Replacement pins, Ø 3.5 mm, 2 pcs.	10

Circlip pliers for external circlips

- In accordance to DIN 5254
- Slip inhibiting machined precision tips
- Durable, straight design
- Self closing
- With rubber grip
- Power version
- Die forged
- Chrome vanadium

	mm	A1 mm	S mm	D1 mm	D2 mm	L1 mm	L2 mm	g
119.2051	10,0 - 25,0	8.0	1.0	13.5	3.5	135,0	30.0	80
119.2056	19,0 - 60,0	9.0	1.5	15.0	4.5	175,0	40.0	150
119.2061	40,0 - 100,0	10.0	2.5	20.0	6.0	230,0	50.0	250

Circlip pliers for external circlips, angled

- In accordance to DIN 5256
- Slip inhibiting machined precision tips
- 90° angled version
- Self closing
- With rubber grip
- Power version
- Die forged
- Chrome vanadium

	mm	A mm	D1 mm	D2 mm	L1 mm	L2 mm	g
119.2052	10,0 - 25,0	20.0	15.0	3.0	125,0	20.0	80
119.2057	19,0 - 60,0	25.0	20.0	4.5	165,0	32.0	150
119.2062	40,0 - 100,0	30.0	25.0	6.0	210,0	40.0	250

Circlip pliers for internal circlips

- In accordance to DIN 5254
- Slip inhibiting machined precision tips
- Durable, straight version
- With rubber grip
- Power version
- Die forged
- Chrome vanadium

	mm	A1 mm	S mm	D1 mm	D2 mm	L1 mm	L2 mm	g
119.2053	12,0 - 25,0	7.5	1.2	15.0	2.7	135,0	30.0	80
119.2058	19,0 - 60,0	9.5	1.6	18.0	5.0	180,0	40.0	150
119.2063	40,0 - 100,0	10.0	2.5	20.0	6.0	230,0	50.0	250

Circlip pliers for internal circlips, angled

- In accordance to DIN 5256
- Slip inhibiting machined precision tips
- 90° angled tips
- With rubber grip
- Power version
- Die forged
- Chrome vanadium

	mm	A mm	D1 mm	D2 mm	L1 mm	L2 mm	g
119.2054	12,0 - 25,0	16.5	14.5	2.5	125,0	20.0	80
119.2059	19,0 - 60,0	21.0	18.0	3.0	165,0	25.0	150
119.2064	40,0 - 100,0	25.0	20.0	5.0	210,0	35.0	250

Drive shaft securing ring teeth with serrated tips

- With PVC dipped handle
- Serrated and angular tips
- Self-closing
- For assembly and disassembly of the securing rings on drive shafts
- For external security rings
- No slipping due to the serrated tips
- Chrome molybdenum

Application range: Opel, Mercedes, Volkswagen, etc.

	A mm	L mm	g
115.1048	0-20	210.0	220

Drive shaft securing ring teeth with shaped tips

- With PVC dipped handle
- Shaped tips
- Self-closing
- For assembly and disassembly of the securing rings on drive shafts
- For external security rings
- No slipping due to the serrated tips
- Chrome molybdenum

Application range: BMW, Opel, Ford, Mercedes, Volkswagen, etc.

	A mm	L mm	g
115.1049	0-20	240.0	600

Wheel bearing circlip pliers, angled

- Sturdy precision tips
- 45° angled tips
- Self-opening
- With PVC dipped handle
- For assembly and disassembly of wheel bearing securing rings
- Can be used on the front and rear axle
- For all common wheel bearing securing rings
- Chrome vanadium

	A mm	D1 mm	D2 mm	L1 mm	L2 mm	g
500.1038	22.0	23.0	2.3	240.0	32.0	250
500.1039	22.0	23.0	3.0	300.0	46.0	490

Drive shaft securing ring teeth with 30° angled tips

- 30° angled
- With PVC dipped handle
- Self-closing
- Plier head with cut out and ring stop body
- For the disassembly and assembly of nut caps without lug retainer
- Chrome vanadium

Application range: For the dismantling of the external (bellow joints in the exchange of the axle boots and / or the drive shaft sleeves). e.g.: for Audi, Opel, Volkswagen (Golf, T4), Fiat, Mitsubishi.

	A mm	L1 mm	L2 mm	g
115.0991	0-33	210.0	50.0	215

Drive shaft securing ring teeth with slightly angled tips

- Slightly angled
- With PVC dipped handle
- Self-closing
- Checkered plier head
- For the disassembly and assembly of drive shaft circlips without lug retainer
- Slip proof
- Chrome vanadium

Application range: For the removal of external circlips e.g. on synchronisation joints

	A mm	L1 mm	L2 mm	g
115.0992	0-37	210.0	50.0	256

Drive shaft securing ring teeth with straight tips

- Straight form
- With PVC dipped handle
- Self-closing
- Checkered plier head
- For the disassembly and assembly of drive shaft circlips without lug retainer
- Slip proof
- Chrome vanadium

Application range: For the removal of external circlips e.g. on drive shafts, transmissions, etc

	A mm	L1 mm	L2 mm	g
115.0993	0-37	210.0	48.0	220

PROP SHAFT TOOL

Universal CV joint removal puller

- For correct removal of the constant velocity joint on the drive shaft
- Extra wide frame for large joints
- Anti-slip and adjustable jaws
- Ideal for swapping the rubber collar or joint
- Robust design
- Simple handling
- Special steel

	Ø mm	L mm	Width mm	kg
150.1850	30,0	260.0	97.0	2.25

Drive shaft thread repair set

- For the repair of internal and external threads
- Ideal for drive shafts, lambda probes, wheel bolts, etc.
- Correct thread repair for damaged or sliced threads
- Suitable for a wide range of applications
- Drive optional with t-handle or external hexagon drive
- In durable plastic storage case

		kg
150.1470	9 pcs Thread repair set	1.37

consists of:

		g
150.1466	T bar, 8x80mm	30
150.1471	Thread chaser for M14 x 1.5 for male and female threads	150
150.1472	Thread chaser for M16 x 1.5 for male and female threads	80
150.1473	Thread chaser for M18 x 1.5 for male and female threads	90
150.1474	Thread chaser for M20 x 1.5 for male and female threads	120
150.1475	Thread chaser for M22 x 1.5 for male and female threads	150
150.1476	Thread chaser for M24 x 1.5 for male and female threads	170
150.1477	Thread chaser for M27 x 2.0 for male and female threads	180
150.1478	Thread chaser for M28 x 1.5 for male and female threads	200

Drive shaft insertion tool set

- Ideally suited to pulling in the drive shaft to the wheel hub
- Pulling tool with hardened spindle
- Includes 10 pulling sleeves with various threads
- Robust design
- Simple handling
- Special steel
- In durable plastic storage case

Application range: BMW, Mercedes, Porsche, Volkswagen, Audi, etc.

		kg
150.2750	16 pcs Drive shaft insertion tool set	3.02

consists of:

		g
150.2751	Pulling sleeve, M18 x 1.5 mm	48
150.2752	Pulling sleeve, M16 x 1.5 (Subaru)	34
150.2753	Pulling sleeve, M20 x 1.5 (Volkswagen, Porsche)	38
150.2754	Pulling sleeve, M22 x 1.5 (BMW E30, E46)	74
150.2755	Pulling sleeve, M24 x 1.5 (BMW E34, Mercedes W203)	87
150.2756	Pulling sleeve, M27 x 1.5 (BMW E32, E34, E39, E38, X5)	114
150.2757	Pulling sleeve, M30 x 1.5 (BMW 34)	210
150.2758	Pulling sleeve, M20 x 1.0	41
150.2759	Pulling sleeve, M20 x 1.25	36
150.2771	Pulling sleeve, M22 x 1.0	70
150.2772	Spindle with press nut, M16 x 2.0, 230 mm	240
150.2773	Bolts, M14 x 1.5, 45 mm	32
150.2774	Bush, Ø 39 mm, 80 mm	348
150.2775	Bush, Ø 49.9 mm, 110 mm	714
150.2776	Screw, M14 x 1.5, 80 mm	95
150.2777	Screw, M16 x 1.5, 80 mm	109

Special drive shaft impact socket, long

- 12 point
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For use in a 1/2" impact wrench
- For machinery usage
- Phosphate finis
- Chrome molybdenum

Application range: Drive shafts, fla ge shafts, fuel injectors, Mercedes Benz Truck Transmissions G2/24/26, Mercedes Benz Actros, etc.

1/2"

	mm	D mm	L mm	g
150.1703	27,0	40.5	85.0	350
150.1705	30,0	42.0	85.0	450
150.1706	32,0	44.0	85.0	490
150.1704	34,0	46.0	85.0	430
150.1707	36,0	50.0	85.0	520

Special drive shaft bit socket

- Extremly robust 1/2" sockets, for use with 1/2" impact wrench
- Length: 43 mm
- Phosphate finis
- Chrome molybdenum

Application e.g.: Brake pads, brake disks, drive shaft connections etc.

1/2"

	mm	Total length mm	g
150.1708	14	43.0	80
150.1709	17	43.0	100
150.1710	19	43.0	110

Drive shaft special socket

- 6 point
- To operate the drive shaft center bolt
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Very robust execution
- Special steel

Application range: Land Rover + Range Rover

1/2"

	mm	D mm	L mm	g
150.1719	52,0	70.0	77.0	210

Special socket, long

- 12 point
- For Prop shafts, transmission fla ge shafts, fuel injectors etc
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Very robust execution
- Special steel

Application range: Mercedes Benz Truck Transmissions G2/24/26, Mercedes Benz Actros, etc.

1/2"

	mm	D mm	L mm	g
150.1711	33,0	44.5	85.0	490

Drive shaft impact socket

- 12 point
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Very robust execution
- To operate the drive shaft center bolt
- Special steel

3/4"

	mm	D mm	L mm	g
150.1702	24,0	34.0	51.5	370

Special prop shaft impact socket set

- For loosening and tightening screws on drive shafts
- Internal square to DIN 3121 / ISO 1174 with ball reception
- Very robust execution
- Special steel
- Includes storage rail

1/2"

			kg
150.1750	8 pcs	Special prop shaft impact socket set	4.20

consists of:

		g
150.1703	Special socket 12pt, 1/2", 27mm	350
150.1704	Special socket 12pt, 1/2", 34mm	430
150.1705	Special socket 12pt, 1/2", 30mm	450
150.1706	Special socket 12pt, 1/2", 32mm	490
150.1707	Special socket 12pt, 1/2", 36mm	520
150.1708	Special bit socket hex, 1/2", 14mm	320
150.1709	Special bit socket hex, 1/2", 17mm	340
150.1710	Special bit socket hex, 1/2", 19mm	360

Drive shaft bit socket for spline (XZN®) screws

- Ideally suited to assembly and disassembly of screws on drive shaft fla ge (transmission side) from the wheel casing
- Internal square drive to DIN 3120/ISO 1174 with ball reception
- Extra-long execution
- With sand blasted bit insert
- Matt finis
- Chrome vanadium

Application range: Audi, Seat, Škoda, Volkswagen, etc.

		L mm	g
150.1720	M8	800.0	580
150.1725	M10	800.0	580
150.1730	M12	800.0	580
150.1735	M14	800.0	580

Drive shaft-bit socket-set for spline (XZN®)-Screws

- Ideally suited to assembly and disassembly of screws on drive shaft fla ge (transmission side) from the wheel casing
- Internal square drive to DIN 3120/ISO 1174 with ball reception
- Extra-long execution
- With sand blasted bit insert
- Matt finis
- Chrome vanadium

Application range: Audi, Seat, Škoda, Volkswagen, etc.

1/2"

			kg
150.1740	4 pcs	M8 - M10 - M12 - M14	2.50

XXL wobble extension

- Internal square to DIN 3120/ISO 1174 with ball reception
- Wobble extension with ball lock
- 8° tilt angle to each side
- For manual operation
- Matt finis
- Chrome vanadium

1/4"

	L mm	g
911.1548	350.0	150
911.1549	600.0	260

XXL wobble extension

- Internal square to DIN 3120/ISO 1174 with ball reception
- Wobble extension with ball lock
- 8° tilt angle to each side
- For manual operation
- Matt finis
- Chrome vanadium

1/2"

	L mm	kg
911.1487	450.0	0.75
911.1488	600.0	1.00
911.1489	750.0	1.25

AXLE BOOTS

Pneumatic assembly tool for CV joint boots

- Air exhaust through the handle rear end
- Suitable for all universal and original vehicle CV joint boots
- For CV joint boots diameter from 20 - 120 mm
- Expanding of the joint arms through pneumatic air
- Air pressure is regulated through a button
- No additional lubricant necessary
- Cold insulated handle
- Includes 1/4" coupling connector
- Ultra light robust housing from special plastic

Technical data:

Max. expansion diameter:	25 - 115 mm
Operating pressure:	max. 8 bar
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"PT

	B mm	L mm	kg
515.3100	200.0	490.0	2.27

Universal CV joint boot kit, small, crimping 23-30 mm, joint 70-105 mm

- For almost all car types
- Low storage costs and fast availability due to the versitility
- Quick and easy installation
- Exchange directly on the vehicle is possible without disassembling the prop shaft
- Can be used with mounting cones or pneumatic fi ting tool 515.3100
- Neoprene joint boots with a longer life
- With a large grip area for wide clamps
- Includes stainless steel clamps and grease

Technical data:

Suitable for crimping:	23,0 - 30,0 mm
Suitable for joints	70,0 - 105,0 mm
Temperature constancy:	-40°C - +110°C

		g
515.3115	Universal CV joint boot kit, small, crimping 23-30 mm, joint 70-105 mm	240

Universal CV joint boot kit, large, crimping 28-40 mm, joint 80-125 mm

- For almost all car types with larger diameter as vans
- Low storage costs and fast availability due to the versitility
- Quick and easy installation
- Exchange directly on the vehicle is possible without disassembling the prop shaft
- Can be used with mounting cones or pneumatic fi ting tool 515.3100
- Neoprene joint boots with a longer life
- With a large grip area for wide clamps
- Includes stainless steel clamps and grease

Technical data:

Suitable for crimping:	28,0 - 40,0 mm
Suitable for joints	80,0 - 125,0 mm
Temperature constancy:	-40°C - +110°C

		g
515.3120	Universal CV joint boot kit, large, crimping 28-40 mm, joint 80-125 mm	360

Stainless steel band

- For CV joint boots
- Sizes adjustable
- Stainless steel

	Ø mm	Content	g
515.3170	19,0-50,0	100	600
515.3175	40,0-120,0	100	1200

HOSE CLAMP TOOL

ERGOTORQUE® sock et screwdriver

- 6 point
- Flexible
- Limited torque
- Double spiral shaft
- Plastic protective coating
- With hanging hole
- Chrome vanadium

	mm	D mm	L1 mm	L2 mm	L3 mm	L4 mm	g
911.1126	6	10.8	259.0	150.0	109.0	9.3	155
911.1127	7	11.7	259.0	150.0	109.0	10.0	155
911.1128	8	11.9	259.0	150.0	109.0	10.0	155
911.1125	10	12.5	279.0	170.0	109.0	14.3	170

ERGOTORQUE*plus*® sock et screwdriver, extra long

- 6 point
- Flexible
- Limited torque
- Double spiral shaft
- Plastic protective coating
- Two component handle
- With hanging hole
- Chrome vanadium

	mm	D mm	L1 mm	L2 mm	L3 mm	L4 mm	g
911.1175	5	11.9	614.0	500.0	114.0	8.9	270
911.1176	6	10.9	614.0	500.0	114.0	11.3	280
911.1177	7	11.7	614.0	500.0	114.0	11.3	280
911.1178	8	11.7	614.0	500.0	114.0	11.3	280

ERGOTORQUE® scr ewdriver set

- Flexible blade with double spiral shaft
- Limited torque
- Plastic protective coating
- Two component handle
- With hanging hole
- Contains also the most current 1/4" bits and sockets
- In display box

			kg
911.1180	16 pcs	ERGOTORQUE® scr ewdriver set	1.30

1 x		1/4"
1 x		1/4"
1 x		7 mm
3 x		5 - 6 - 8 mm
2 x		5.5 - 6.5 mm
2 x		PH1 - PH2
6 x		T10 - T15 - T20 - T25 - T27 - T30

Hose clamp pliers

- With moveable jaws
- 45° angled head
- Suitable for the correct assembly and disassembly of Click, Click-R and Cobra clamps
- Also suitable for self-tensioning hose clamps with fl t 3 pinch ends
- Suitable for narrow spaces
- Chrome molybdenum

	A mm	C mm	L mm	
115.1057	0-30	45.0	200.0	180

Hose clamp pliers, ear type

- Knurled handle
- To the dismantling and assembly of "ear type" hose clamp
- For connections on axle boots, coolers and fuel hoses
- Universal usage
- Chrome molybdenum

	A mm	L1 mm	L2 mm	
115.1039	0-60	230.0	25.0	320

Hose clip pliers for earless hose bands

- With PVC dipped handle
- For working of earless clamps
- Also suitable for thermoplastic axle boots
- Uniform compressing of the ear piece
- No damage to the sleeve
- With lever translation
- Nickel-plated finis
- Chrome molybdenum

Application range: Axle boots for Audi, BMW, Chrysler, Ford, GM, Honda, Mazda, Mercedes, Nissan, Opel, Porsche, Volkswagen, etc.

	Ø mm	Length mm	
115.1210	100	248.0	330

Hose clamp pliers, ear type

- With PVC dipped handle
- For the fi ting of ear clamps
- No sticking up of the ears during the press process
- Uniform compressing of the ear piece
- No damage to the sleeve
- Nickel-plated finis
- Chrome molybdenum

Application range: Axle boots, coolant and fuel hoses for Volkswagen, Audi, Opel, BMW, Mercedes, Honda, Nissan and Mazda

	A mm	L mm	
115.1050	0-22	260.0	380

Hose clamp pliers

- With PVC dipped handle
- With 3/8" drive for use with a torque wrench
- For the fi ting and clamping of ear clamps
- 1/2" 4-point recess in the handle for use with torque wrench
- Chrome molybdenum

Application range: Volkswagen, Opel, Seat, GM, Ford, Nissan, Mercedes, Mazda, Honda, Chrysler, BMW and Audi

	A mm	L mm	
115.1053	0-17	240.0	540

Hose clamp pliers

- Work side
- For compressing locking hose clips
- With PVC dipped handle
- Chrome vanadium

	L mm	
115.1185	240.0	335

Hose clamp pliers for torque wrench

- Black plastic handle
- 3/8" drive for use with a torque wrench
- Enables clamping and/or copressing of the hose clamps
- Suitable for the stainless steel hose clamps on drive shafts
- Robust cast steel construction

	A mm	L mm	
115.1056	0-45	270.0	880

Stainless steel ball-lock cable ties

- Ideal for fastening axle boots, steering joints, etc.
- Adjustable as desired
- Stainless steel 304

	Length mm	Width mm	Content	g
115.1591	200.0	4.6	100	200
115.1592	250.0	4.6	100	300
115.1593	350.0	4.6	100	400
115.1594	500.0	4.6	100	500

Clamping and cutting tool for tubing bands

- Straps for attaching to CV joint boots
- Integrated clamping and cutting device
- Suitable for prefabricated and endless band clamps up to 9.5 mm
- Special steel

	L mm	g
115.1059	163.0	437

Plier for stainless steel ball-lock cable ties

- Ideal for working stainless steel cable binders
- Can be used up to a tape width of 12 mm
- Controlled tensioning and precise cutting off of the cable binder in a single step
- Tensile force is determined by the operator
- Suitable for steel, stainless steel and epoxy cable binder
- Special steel

	Length mm	g
115.1590	210.0	650

Hose strap cutter, angled

- To be sliced from earless hose clamps
- For connections on axle boots, coolers and fuel hoses
- Dipped covered handle
- Chrome vanadium

	L mm	g
115.1186	220.0	345

Hose strap cutter, angled

- For cutting off earless hose clamps
- 45° angled head
- For connections on axle boots, cooler and fuel hoses
- Damage-free opening of clamps and tubing bands
- Universal usage
- Nickel-plated finis

	A mm	C mm	L mm	g
115.1191	0 - 30,0	50.0	230.0	330

Automotive hose clamp pliers set

- Handle dip insulated
- Ideal for clamps low down in the engine
- Includes locking mechanism
- For self tensioning spring pipe clamps with 3 point mounting
- Self opening
- For opening and closing re/useable clic hose clamps, type Clic + Clic-R
- For diffi ult to reach clamps
- Special tool steel

Application area: For connecting and removing fuel, immersed ventilation, coolant, washer water and vacuum hoses, etc.

Application range: Volkswagen, Audi, Mercedes Benz, Toyota etc.

			kg
115.1104	4 pcs	Automotive hose clamp pliers set	1,12

consists of:

		g
115.1045	Hose clamp pliers (click type), 180mm	215
115.1042	Hose clamp pliers (recessed/slot), 220mm	210
115.1187	Hose clamp pliers with prism, 8-18mm	189
115.1065	Hose clamp pliers (dbl bowden cable), 600mm	540

Automotive hose clamp pliers set

- PVC dipped handle
- For opening and closing of cobra hose clamps
- Swivel pressed jaws
- Includes locking mechanism and ratchet function
- Self opening mechanism
- For the dismantling and assembly of hose clamps
- Includes bowden cable
- Chrome molybdenum

			kg
115.1055	7 pcs	Automotive hose clamp pliers set	4,00

consists of:

		g
115.1041	Hose clamp pliers (bowden cable), 650mm	470
115.1042	Hose clamp pliers (recessed/slot), 220mm	210
115.1043	Hose clamp pliers (crown profile , 220mm	240
115.1044	Hose pliers, 195mm	190
115.1045	Hose clamp pliers (click type), 180mm	215
115.1046	Hose clamp pliers (recessed/slot),220mm	230
115.1047	Hose clamp pliers (dbl cross slot),220mm	230

PRESS AND PULL SLEEVE SET

700.1701 - 700.1704

700.1800-19

700.1800-10 - 700.1800-11

700.1706 - 700.1709

700.1710 - 700.1713

700.1800-17

700.1714 - 700.1733

980.1085 - 980.1090

item	Description	700.1760 20 pcs	700.2355 22 pcs	700.1700 36 pcs	700.1735 12 pcs
	Pressure nut				
700.1701	Thrust bolt, M10 with bearing		2 x	2 x	2 x
700.1702	Thrust bolt, M12	2 x	2 x	2 x	2 x
700.1703	Thrust bolt, M14 with bearing			2 x	2 x
700.1704	Thrust bolt, M16	2 x		2 x	2 x
700.1800-19	Thrust bolt TR 20 with bearing 2 pcs		1 x		
700.1800-10	Check nut M 10		1 x		
700.1800-11	Check nut M 12		1 x		
	Step plate				
700.1706	Stepped plates,#1	1 x	1 x	1 x	
700.1707	Stepped plates,#2	1 x	1 x	1 x	
700.1708	Stepped plates,#3	1 x	1 x	1 x	
700.1709	Stepped plates,#4	1 x	1 x	1 x	
	Spindles				
700.1710	Spindle, M10		1 x	1 x	1 x
700.1711	Spindles, M12	1 x	1 x	1 x	1 x
700.1712	Spindle, M14			1 x	1 x
700.1713	Spindles, M16	1 x		1 x	1 x
700.1800-17	Spindle TR 20, short		1 x		
	Step pressure sleeve				
700.2356	Step pressure sleeve, internal Ø 14 mm, external Ø 24 mm		1 x		
700.2357	Step pressure sleeve, internal Ø 16 mm, external Ø 26 mm		1 x		
700.2358	Step pressure sleeve, internal Ø 18 mm, external Ø 28 mm		1 x		
700.2359	Step pressure sleeve, internal Ø 20 mm, external Ø 30 mm		1 x		
700.2361	Step pressure sleeve, internal Ø 22 mm, external Ø 32 mm		1 x		
700.2362	Step pressure sleeve, internal Ø 24 mm, external Ø 34 mm		1 x		
700.2363	Step pressure sleeve, internal Ø 26 mm, external Ø 36 mm		1 x		
700.2364	Step pressure sleeve, internal Ø 28 mm, external Ø 38 mm		1 x		
700.2365	Step pressure sleeve, internal Ø 30 mm, external Ø 40 mm		1 x		
700.2366	Step pressure sleeve, internal Ø 32 mm, external Ø 42 mm		1 x		
	Pressure sleeve				
700.1714	Pull sleeve, internal Ø 34mm, external Ø 44mm	1 x		1 x	
700.1715	Pressure sleeve, internal Ø 36 mm, external Ø 46 mm			1 x	
700.1716	Pressure sleeve, internal Ø 38 mm, external Ø 48 mm			1 x	
700.1717	Pressure sleeve, internal Ø 40 mm, external Ø 50 mm			1 x	
700.1718	Pull sleeve, internal Ø 42mm, external Ø 52mm	1 x		1 x	
700.1719	Pull sleeve, internal Ø 44mm, external Ø 54mm	1 x		1 x	
700.1720	Pull sleeve, internal Ø 46mm, external Ø 56mm	1 x		1 x	
700.1721	Pressure sleeve, internal Ø 48 mm, external Ø 58 mm			1 x	
700.1722	Pressure sleeve, internal Ø 50 mm, external Ø 60 mm			1 x	
700.1723	Pull sleeve, internal Ø 52mm, external Ø 62mm	1 x		1 x	
700.1724	Pressure sleeve, internal Ø 54 mm, external Ø 64 mm			1 x	
700.1725	Pressure sleeve, internal Ø 56 mm, external Ø 66 mm			1 x	
700.1726	Pressure sleeve, internal Ø 58 mm, external Ø 68 mm			1 x	
700.1727	Pressure sleeve, internal Ø 60 mm, external Ø 70 mm			1 x	
700.1728	Pressure sleeve, internal Ø 62 mm, external Ø 72 mm			1 x	
700.1729	Pull sleeve, internal Ø 64mm, external Ø 74mm	1 x		1 x	
700.1730	Pressure sleeve, internal Ø 66 mm, external Ø 76 mm			1 x	
700.1731	Pressure sleeve, internal Ø 68 mm, external Ø 78 mm			1 x	
700.1732	Pull sleeve, internal Ø 70mm, external Ø 80mm	1 x		1 x	
700.1733	Pull sleeve, internal Ø 72mm, external Ø 82mm	1 x		1 x	
	Thread width				
980.1090	Special thread grease	2 x			
980.1085	Special thread grease				1 x

Press and pull sleeve set

- For the disassembly and assembly of bearings
- Ideally for silent bearings, hydro bearings, bushings, ball bearing, simmerrings, etc
- Universal use for automobile, truck, municipally, country and forestery technology, etc.
- Outstanding to use also in connection with workshop press or hollow piston cylinder
- According to use application the sheaths individually can be reworked
- Pressure bearing protects against increased friction during the process
- In durable plastic storage case

Attention: the spindles need to be greased with a good lubricant for each application! Do not overload spindles, otherwise the thread lengthens and the pitch of the nut and spindle no longer match. The result: the nuts will seize up. Always check the applied force at the drive with a torque wrench!

Maximum permitted torque:
Spindle M10x1,5 60 Nm
Spindle M12x1,5 100 Nm

			kg	
700.2355	22 pcs	Press and pull sleeve set	8.74	

consists of:

		g	
700.1701	Thrust bolt, M10 with bearing	125	
700.1702	Thrust bolt, M12	124	
700.1706	Stepped plates,#1	350	
700.1707	Stepped plates,#2	390	
700.1708	Stepped plates,#3	420	
700.1709	Stepped plates,#4	450	
700.1710	Spindle, M10, 350 mm	170	
700.1711	Spindles, M12, 350 mm	253	
700.1800-10	Check nut M 10	350	
700.1800-11	Check nut M 12	350	
700.1800-17	Spindle TR 20, short	350	
700.1800-19	Thrust bolt TR 20 with bearing 2 pcs	350	
700.2356	Step pressure sleeve, internal Ø 14 mm, external Ø 24 mm	260	
700.2357	Step pressure sleeve, internal Ø 16 mm, external Ø 26 mm	280	
700.2358	Step pressure sleeve, internal Ø 18 mm, external Ø 28 mm	300	
700.2359	Step pressure sleeve, internal Ø 20 mm, external Ø 30 mm	320	
700.2361	Step pressure sleeve, internal Ø 22 mm, external Ø 32 mm	360	
700.2362	Step pressure sleeve, internal Ø 24 mm, external Ø 34 mm	380	
700.2363	Step pressure sleeve, internal Ø 26 mm, external Ø 36 mm	400	
700.2364	Step pressure sleeve, internal Ø 28 mm, external Ø 38 mm	420	
700.2365	Step pressure sleeve, internal Ø 30 mm, external Ø 40 mm	440	
700.2366	Step pressure sleeve, internal Ø 32 mm, external Ø 42 mm	460	

Press and pull sleeve set BASIC

- For the disassembly and assembly of bearings
- Ideally for silent bearings, hydro bearings, bushings, ball bearing, simmerrings, etc
- Universal use for automobile, truck, municipally, country and forestery technology, etc.
- Outstanding to use also in connection with workshop press or hollow piston cylinder
- According to use application the sheaths individually can be reworked
- Pressure bearing protects against increased friction during the process
- In durable plastic storage case

Attention: the spindles need to be greased with a good lubricant for each application! Do not overload spindles, otherwise the thread lengthens and the pitch of the nut and spindle no longer match. The result: the nuts will seize up. Always check the applied force at the drive with a torque wrench!

Maximum permitted torque:
Spindle M10x1,5 60 Nm
Spindle M12x1,5 100 Nm
Spindle M14x1,5 180 Nm
Spindle M16x1,5 250 Nm

			kg	
700.1760	20 pcs	Press and pull sleeve set BASIC	8.32	

consists of:

		g	
700.1702	Thrust bolt, M12	124	
700.1704	Thrust bolt, M16	130	
700.1706	Stepped plates,#1	350	
700.1707	Stepped plates,#2	390	
700.1708	Stepped plates,#3	420	
700.1709	Stepped plates,#4	450	
700.1711	Spindles, M12, 350 mm	253	
700.1713	Spindles, M16, 350 mm	473	
700.1714	Pull sleeve, internal Ø 34mm, external Ø 44mm	250	
700.1718	Pull sleeve, internal Ø 42mm, external Ø 52mm	300	
700.1719	Pull sleeve, internal Ø 44mm, external Ø 54mm	320	
700.1720	Pull sleeve, internal Ø 46mm, external Ø 56mm	330	
700.1723	Pull sleeve, internal Ø 52mm, external Ø 62mm	370	
700.1729	Pull sleeve, internal Ø 64mm, external Ø 74mm	440	
700.1732	Pull sleeve, internal Ø 70mm, external Ø 80mm	480	
700.1733	Pull sleeve, internal Ø 72mm, external Ø 82mm	490	

Press and pull sleeve set

- For the disassembly and assembly of bearings
- Ideally for silent bearings, hydro bearings, bushings, ball bearing, simmerrings, etc
- Universal use for automobile, truck, municipally, country and forestery technology, etc.
- Outstanding to use also in connection with workshop press or hollow piston cylinder
- According to use application the sheaths individually can be reworked
- Pressure bearing protects against increased friction during the process
- In durable plastic storage case

Attention: the spindles need to be greased with a good lubricant for each application! Do not overload spindles, otherwise the thread lengthens and the pitch of the nut and spindle no longer match. The result: the nuts will seize up. Always check the applied force at the drive with a torque wrench!

Maximum permitted torque:
Spindle M10x1,5 60 Nm
Spindle M12x1,5 100 Nm
Spindle M14x1,5 180 Nm
Spindle M16x1,5 250 Nm

			kg	
700.1700	36 pcs	Press and pull sleeve set	14.80	

consists of:

		g	
700.1701	Thrust bolt, M10 with bearing	125	
700.1702	Thrust bolt, M12 with bearing	124	
700.1703	Thrust bolt, M14 with bearing	130	
700.1704	Thrust bolt, M16 with bearing	130	
700.1706	Stepped plate, #1	350	
700.1707	Stepped plate, #2	390	
700.1708	Stepped plate, #3	420	
700.1709	Stepped plate, #4	450	
700.1710	Spindle, M10, 350 mm	170	
700.1711	Spindle, M12, 350 mm	253	
700.1712	Spindle, M14, 350 mm	350	
700.1713	Spindle, M16, 350 mm	473	
700.1714	Pressure sleeve, Internal Ø: 34 mm, External Ø: 44 mm	250	
700.1715	Pressure sleeve, Internal Ø: 36 mm, External Ø: 46 mm	260	
700.1716	Pressure sleeve, Internal Ø: 38 mm, External Ø: 48 mm	280	
700.1717	Pressure sleeve, Internal Ø: 40 mm, External Ø: 50 mm	290	
700.1718	Pressure sleeve, Internal Ø: 42 mm, External Ø: 52 mm	300	
700.1719	Pressure sleeve, Internal Ø: 44 mm, External Ø: 54 mm	320	
700.1720	Pressure sleeve, Internal Ø: 46 mm, External Ø: 56 mm	330	
700.1721	Pressure sleeve, Internal Ø: 48 mm, External Ø: 58 mm	340	
700.1722	Pressure sleeve, Internal Ø: 50 mm, External Ø: 60 mm	350	
700.1723	Pressure sleeve, Internal Ø: 52 mm, External Ø: 62 mm	370	
700.1724	Pressure sleeve, Internal Ø: 54 mm, External Ø: 64 mm	380	
700.1725	Pressure sleeve, Internal Ø: 56 mm, External Ø: 66 mm	390	
700.1726	Pressure sleeve, Internal Ø: 58 mm, External Ø: 68 mm	410	
700.1727	Pressure sleeve, Internal Ø: 60 mm, External Ø: 70 mm	420	
700.1728	Pressure sleeve, Internal Ø: 62 mm, External Ø: 72 mm	430	
700.1729	Pressure sleeve, Internal Ø: 64 mm, External Ø: 74 mm	440	
700.1730	Pressure sleeve, Internal Ø: 66 mm, External Ø: 76 mm	460	
700.1731	Pressure sleeve, Internal Ø: 68 mm, External Ø: 78 mm	470	
700.1732	Pressure sleeve, Internal Ø: 70 mm, External Ø: 80 mm	480	
700.1733	Pressure sleeve, Internal Ø: 72 mm, External Ø: 82 mm	490	

Press and pull sleeve kit

- For the assembly and disassembly of bearings
- Ideally for silent bearings, hydro bearings, bushings, ball bearings, simmer rings, etc.
- Universal use for passenger cars, trucks, communal, agricultural and forest vehicles
- Outstanding to use also in connection with workshop press or hollow piston cylinder
- According to use application the sheaths individually can be reworked
- Pressure bearing protects against increased friction during the process
- In durable plastic storage case

Caution: The spindles must be greased before fi st use!
Overloading leads to unwanted material stresses or breakage
Always check the power settings on the drive with a torque wrench Not to be combined with other systems

Maximum allowable torque moments:
Spindle (ACME) M10 x P1.5 60 Nm
Spindle (ACME) M12 x P2.0 120 Nm
Spindle (ACME) M14 x P2.0 150 Nm
Spindle (ACME) M16 x P2.5 250 Nm

			kg
700.1550	29 pcs	Press and pull sleeve kit	17.00

consists of:

		g
700.1550-34	Pull sleeve,internal Ø 34mm,external Ø 44mm	250
700.1550-36	Pull sleeve,internal Ø 36mm,external Ø 46mm	260
700.1550-38	Pull sleeve,internal Ø 38mm,external Ø 48mm	280
700.1550-40	Pull sleeve,internal Ø 40mm,external Ø 50mm	290
700.1550-42	Pull sleeve,internal Ø 42mm,external Ø 52mm	300
700.1550-44	Pull sleeve,internal Ø 44mm,external Ø 54mm	320
700.1550-46	Pull sleeve,internal Ø 46mm,external Ø 56mm	330
700.1550-48	Pull sleeve,internal Ø 48mm,external Ø 58mm	340
700.1550-50	Pull sleeve,internal Ø 50mm,external Ø 60mm	350
700.1550-52	Pull sleeve,internal Ø 52mm,external Ø 62mm	360
700.1550-54	Pull sleeve,internal Ø 54mm,external Ø 64mm	380
700.1550-56	Pull sleeve,internal Ø 56mm,external Ø 66mm	390
700.1550-58	Pull sleeve,internal Ø 58mm,external Ø 68mm	410
700.1550-60	Pull sleeve,internal Ø 60mm,external Ø 70mm	420
700.1550-62	Pull sleeve,internal Ø 62mm,external Ø 72mm	430
700.1550-64	Pull sleeve,internal Ø 64mm,external Ø 74mm	440
700.1550-66	Pull sleeve,internal Ø 66mm,external Ø 76mm	460
700.1550-68	Pull sleeve,internal Ø 68mm,external Ø 78mm	470
700.1550-70	Pull sleeve,internal Ø 70mm,external Ø 80mm	480
700.1550-72	Pull sleeve,internal Ø 72mm,external Ø 82mm	490
700.1550-75	Pull sleeve,internal Ø 75mm,external Ø 85mm	500
700.1550-80	Pull sleeve,internal Ø 80mm,external Ø 90mm	520
700.1551	Spindle M10x1.5	170
700.1552	Spindle M12x2.0	200
700.1553	Spindle M14x2.0	350
700.1554	Spindle M16x2.5	380
700.1555	Pressure adapter for step panel hgv size	350
700.1556	Step panel adaptor with 3 holes, A+B side	350
700.1551-01	Pressure nut for M10 x P1,5	30
700.1551-02	Pressure nut with bearing for M10xP1,5	30
700.1552-01	Pressure nut for M12 x P1,75	30
700.1552-02	Pressure nut with bearing for M12xP1,75	30
700.1553-01	Pressure nut for M14 x P2,0	30
700.1553-02	Pressure nut with bearing for M14xP2,0	30
700.1554-01	Pressure nut for M16 x P2,0	30
700.1554-02	Pressure nut with bearing for M16xP2,0	30

UNIVERSAL PRESS FRAME SYSTEM PP I

Universal press frame, 5 pcs without hydraulic spindle

- For the use in connection with the pressure and pull sleeve set 700.1700 for pressing out and pressing on of silent bearings, hydro bearings, bushings, etc.
- Enables de- and assembly directly on the vehicle
- Through the long trailing arm also especially high housings release themselves without problem on and pressing out
- Extremely robust spindle with inductively hardened thread
- Special steel

			kg
700.1751	5 pcs	Universal press frame, 5 pcs without hydraulic spindle	8.90

accessories:

		kg
700.1751-1	Connection bar 205 mm for 700.1751 (1 piece)	0.71
700.1751-2	Connection bar 350 mm for 700.1751 (1 piece)	1.20

KS hydraulic PP2 to Sauer, Müller, KS PP1 tools

- For use of the KS Tools hydraulic cylinder PP2 (8,5-22 t) with Sauer-, Müller-, KS PP1 special tools
- Adapter 1.1/2" PP2 to 2.1/4"-16 UN (Sauer, Müller, KS PP1)
- Special steel

			g
440.0034		KS hydraulic PP2 to Sauer, Müller, KS PP1 tools	230

HYDRAULIC SUPPORT SYSTEM PP I

Hydraulic pressure spindle for press frame

- Ideal for enlarging the press frame
- Compact shape with extremely high pressure (10 t)
- Extremely high and uniform power construction
- Pre-tensioning and positioning via the outer thread on the cylinder
- For a controlled and safe removal
- The hydraulics are set into motion via a hydraulic pump (3/8" NPT)
- Extremely robust spindle with hardened thread
- Special steel

	Total length mm	Screw extension mm	Width mm	max. t	Stroke mm	Ø mm	kg
700.1785	300.0	240,0	170.0	10	200.0	54,0	5.52

Hydraulic pressure spindle for press frame

- Ideal for enlarging the press frame
- Compact shape with extremely high pressure (10 t)
- The hydraulic pistons move in a linear way which prevents rubbing on the pressure tip
- Maximum pressure with little effort
- Pre-tensioning and positioning via the outer thread on the cylinder
- For a controlled and safe removal
- The hydraulics are set in motion with the knob or the external hexagon drive
- Extremely robust spindle with hardened thread
- Special steel

	mm	Screw extension mm	Total length mm	max. t	Stroke mm	mm	kg
700.1400-1	AG 1.1/2"-12 UNF	92,0	260.0	10	15.0	17	1.34

HYDRAULIC SUPPORT UNIVERSAL

Hydraulic hollow piston cylinder set, 12 t with spindle

- For the assembly and disassembly of silent bearings, steering pins, track rod ends, wheel bearings, etc.
- Extremely high and uniform power construction
- Maximum pressure with little effort
- Industrial design with forged piston
- Suitable for both pressurised and tensioned uses
- Special steel

Technical data cylinder

Capacity:	12 t
Connection thread:	3/8" NPT IG
Piston:	industrial forged execution
Stroke:	42.0 mm

			kg
700.1788	2 pcs	Hydraulic hollow piston cylinder set, 12 t with spindle	3.40

consists of:

		kg
700.1789	Hydraulic hollow piston cylinders, 12 t	2.20
700.1787	Hydraulic pull piston	1.20

Hydraulic hollow piston cylinder set 20 t with spindle

- For the assembly and disassembly of silent bearings, steering pins, track rod ends, wheel bearings, etc.
- Extremely high and uniform power construction
- Maximum pressure with little effort
- Industrial design with forged piston
- Suitable for both pressurised and tensioned uses
- Special steel

Technical data cylinder

Capacity:	20 t
Connection thread:	3/8" NPT IG
Piston:	industrial forged execution
Stroke:	52.0

			kg
700.1786	2 pcs	Hydraulic hollow piston cylinder set 20 t with spindle	8.80

consists of:

		kg	
700.1796	Hydraulic feet shaft M20 x 2.5	1.50	
700.1791	Hydraulic hollow piston cylinders, 20 t	7.30	

Hydraulic hand pump

- For the dismantling and assembly of silent support, steering pin, track rod ends, wheel bearings, etc.
- Extremely high and uniform power construction
- Suitable for both pressure and train uses
- Ideally suited for commercial vehicles
- Supplied without without manometer and hydraulic tube
- Special steel

Technical data:

Connection thread:	3/8" NPT IG
Hand pump:	700 bar high pressure pump
Dimensions:	410 x 150 x 135

		kg	
700.1792	Hydraulic hand pump	5.50	

Hydraulics tube, 2 m including connection

- Ideally suited for commercial vehicles

Technical data:

Connection thread:	3/8" NPT AG x 3/8" NPT AG
Length:	2000 mm

		kg	
700.1793	Hydraulics tube, 2 m including connection	1.10	

Manometer

- Max. 700 bar
- Special steel

	D mm	g	
700.1790-2	80.0	334	

Hydraulic tension and pressure unit

- For the dismantling and assembly of silent support, steering pin, track rod ends, wheel bearings, etc.
- Extremely high and uniform power construction
- Industrial execution with forged piston
- Suitable for both pressure and train uses
- Ideally suited for commercial vehicles
- Special steel
- In durable plastic storage case

			kg	
700.1790	4 pcs	Hydraulic tension and pressure unit	15.40	

consists of:

		kg	
700.1791	Hydraulic hollow piston cylinder, 20 t	7.30	
700.1792	Hydraulic hand pump, 700 bar	5.50	
700.1793	Hydraulic hose, 2 m	1.10	
700.1796	Feed shaft for hydraulic M20 x 500 mm	1.50	

Pneumatic hydraulic pump

- Pneumatic working
- For simply agent press cylinders
- Safety valve for overload protection
- Includes pressure tube 1.8 meters
- Usable tank volume 2081cm³ = 2.081l
- Operating pressure max. 700 bar
- Output per stroke:
  0.8 l/min up to 200 bar
  0.1 l/min up to 700 bar

	Connection thread mm	L mm	B mm	H mm	kg	
640.0020	3/8" - 18 NPT	255	130	200	11.00	

C-FRAME SYSTEM PP I

C-clamp and adaptor set, short

- Very robust execution
- Valuable supplement to the pressure set and hub sheath set 700.1700
- The drive can be used alternatively mechanically or hydraulically
- Suitable for impact wrenches
- Through use of trapezoid spindle and Impact screw maximum power can be tranferred (Hammer impact effect)
- Removeable spindle and clamping device with staged reception plate
- Silent bearings, sheaths, bushings etc. lets it incorporated itself in that or expanded condition on and compressed
- Trapezoid thread spindle Tr.27 with ball stored pressure tip
- Special steel

		Max span width mm	Max span depth mm	Length mm	Width mm	kg	
700.1780	4 pcs	170.0	65.0	320.0	150.0	6.42	

consists of:

		kg	
700.1781	Uni C-clamp	5.50	
700.1782	Spindle with trapazoid thread Tr.27	0.90	
700.1783	C attachment set for stepped puller, 2 pcs	0.02	

C-clamp and adaptor set, long

- Very robust execution
- Valuable supplement to the pressure set and hub sheath set 700.1700
- The drive can be used alternatively mechanically or hydraulically
- Suitable for impact wrenches
- Through use of trapezoid spindle and Impact screw maximum power can be tranferred (Hammer impact effect)
- Removeable spindle and clamping device with staged reception plate
- Silent bearings, sheaths, bushings etc. lets it incorporated itself in that or expanded condition on and compressed
- Trapezoid thread spindle Tr.27 with ball stored pressure tip
- Special steel

		Max span width mm	Max span depth mm	Length mm	Width mm	kg	
700.1755	5 pcs	245.0	95.0	380.0	180.0	7.82	

consists of:

		kg	
700.1754	Threaded adaptor with AG 1-1/2" x 16G and IG trapazoid thread Tr.27	0.60	
700.1756	Universal C-clamp	7.00	
700.1757	Spindle with trapazoid thread Tr.27, length 300 mm, drive 24 mm	2.00	
700.1758	Spindle reception adaptor	0.80	
700.1759	C-Clamp reception adaptor	0.60	

HYDRAULIC SYSTEM PP II

Pressure and pull hydraulic cylinder set

- For the assembly and disassembly of silent bearings, steering pin bolts, wheel bearings, etc.
- Can be used in the narrowest of spaces
- With adjustable pressure rods and impact body
- With automatic piston return
- Special steel

Technical data cylinder

Capacity:	8.5 t
Connection thread:	Cejn quick coupling
Piston:	industrial forged execution
piston-inner thread:	M22
outer thread:	1.1/2"
Stroke:	25.0 mm

			kg	
440.0020	4 pcs	Pressure and pull hydraulic cylinder set	2.19	

consists of:

		g	
440.0021	Hydraulic cylinder, 8.5 t	1800	
440.0022	Impact body with sealing ring	140	
440.0023	Adjustable pressure rod M22, L = 100 mm	240	
440.0024	(CEJN-) Nipple hydraulic for connection thread 1/8"	10	

Pressure and pull hydraulic cylinder set, 16t

- For the assembly and disassembly of silent bearings, steering pins, track rod ends, wheel bearings, etc.
- Suitable for both pressurised and tensioned uses
- With impact body for screwing in
- Extremely high and uniform power construction
- Universal usage with reduction M10-M22
- Special steel

Technical data cylinder

Capacity:	16 t
Connection thread:	Cejn quick coupling
Piston:	industrial forged execution
piston-inner thread:	M22
outer thread:	1.1/2"
Stroke:	67.0 mm

			kg
440.0005	10 pcs	Pressure and pull hydraulic cylinder set, 16t	5.48

consists of:

		g
440.0001	Hydraulic cylinder, 16 t	3380
440.0002	Pressure axle, M24 x 3 mm, L = 129.5 mm	600
440.0003	Pressure foot, M24 x 3 mm	90
440.0004	Adjustable pressure rod M24, L = 92 mm	240
440.0006	Protective ring for thread, 2.1/4"	100
440.0007	Collar nut, M18	80
440.0008	Pressure rod, M18/M22, L = 250 mm	440
440.0011	Impact body, M22 x 2.5 mm	220
440.0012	Adjustable pressure sleeve, M24, L = 132 mm	320
440.0009	(CEJN-) Nipple hydraulic for connection thread 1/4"	10

Pressure and pull hydraulic cylinder set

- For the assembly and disassembly of silent bearings, steering pins, track rod ends, wheel bearings, etc.
- Suitable for both pressurised and tensioned uses
- With impact body for screwing in
- Extremely high and uniform power construction
- Universal usage with reduction M10-M22
- With automatic piston return
- Ideally suited to transporters
- Special steel

Technical data cylinder

Capacity:	22 t
Connection thread:	Cejn quick coupling
Piston:	industrial forged execution
piston-inner thread:	M22
outer thread:	1.1/2"
Stroke:	70.0 mm

			kg
440.0010	10 pcs	Pressure and pull hydraulic cylinder set	6.90

consists of:

		g
440.0013	Hydraulic cylinder, 22 t	4640
440.0011	Impact body, M22 x 2.5 mm	220
440.0003	Pressure foot, M24 x 3 mm	90
440.0004	Adjustable pressure rod M24, L = 92 mm	240
440.0006	Protective ring for thread, 2.1/4"	100
440.0014	Pressure axle, M24 x 3, L = 151 mm	740
440.0016	Adjustable pressure sleeve, M24, L = 109 mm	340
440.0007	Collar nut, M18	80
440.0008	Pressure rod, M18/M22, L = 250 mm	440
440.0009	(CEJN-) Nipple hydraulic for connection thread 1/4"	10

Pressure and pull hydraulic cylinder set, 32t

- Optimal for universal use in car garages
- Suitable for both pressurised and tensioned uses
- Extremely high and uniform power construction
- Industrial design with forged piston
- Pressure of the hydraulic cylinders can be combined with the impact body with impact force during use
- Universal usage with reduction M10-M22
- Ideally used with transporters and commercial vehicles
- Special steel

Technical data cylinder

Capacity:	32 t
Connection thread:	Cejn quick coupling
Piston:	industrial forged execution
piston-inner thread:	M24
outer thread:	2.1/2"
Stroke:	113.0 mm

			kg
440.0025	6 pcs	Pressure and pull hydraulic cylinder set, 32t	9.35

consists of:

		g
440.0026	Hydraulic cylinder, 32 t	8020
440.0016	Adjustable pressure sleeve, M24, L = 109 mm	340
440.0027	Protective ring for thread, 2.5	200
440.0028	Collar nut, M22	100
440.0029	Pressure rod, M22, L = 250 mm	620
440.0009	(CEJN-) Nipple hydraulic for connection thread 1/4"	10

Short-stroke hydraulic cylinder set

- For the assembly and disassembly of silent bearings, steering pin bolts, wheel bearings, etc.
- With adjustable pressure rod
- Maximum pressure with little effort
- Especially for use with press tool and press stand 440.0190 and 440.0180
- With automatic piston return
- Special steel

Technical data cylinder

Capacity:	14 t
Connection thread:	Cejn quick coupling
Piston:	industrial forged execution
piston-inner thread:	M24
outer thread:	1.1/2"
Stroke:	55.0 mm

			kg
440.0015	3 pcs	Short-stroke hydraulic cylinder set	2.67

consists of:

		g
440.0017	Hydraulic cylinder, 14 t	2420
440.0004	Adjustable pressure rod M24, L = 92 mm	240
440.0009	(CEJN-) Nipple hydraulic for connection thread 1/4"	10

Pull rod, collar nut, adapter set

- Universal usage
- Extremely robust spindle with inductive hardened thread (M10-M22)
- Optimal use with trucks, transporters and commercial vehicle tools with corresponding reduction
- Ideally suited to hydraulic cylinders 440.0005, 440.0010 and 440.0020
- Special steel

Caution: The spindles must be greased before fi st use!

			kg
440.0040	13 pcs	Pull rod, collar nut, adapter set	1.98

consists of:

		g
440.0041	Pressure rod, M10	80
440.0042	Pressure rod, M12	180
440.0043	Pressure rod, M14	240
440.0008	Pressure rod, M18/M22, L = 250 mm	440
440.0029	Pressure rod, M22, L = 250 mm	620
440.0044	Adapter, M22-M10	50
440.0045	Adapter, M22-M12	50
440.0046	Adapter, M22-M14	40
440.0047	Collar nut, M10	20
440.0048	Collar nut, M12	20
440.0049	Collar nut, M14	60
440.0007	Collar nut, M18	80
440.0028	Collar nut, M22	100

Hydraulic foot pump set

- For simple acting press cylinder
- Safety valve for prevention against too much force
- With automatic return
- Includes hydraulic hose with quick coupling

Technical data:

Connection thread:	Cejn quick coupling
Volume:	0,75 l
Operating pressure:	700 bar
Tube length:	2200 mm

			kg
440.0060	4 pcs	Hydraulic foot pump set	7.83

consists of:

		g
440.0057	Hydraulic hose, 2200 mm	900
440.0058	Cejn quick coupling	200
440.0061	Hydraulic foot pump	6720
440.0070	Seal set	10

Pneumatic hydraulic pump set

- Pneumatic operation
- For simple acting press cylinder
- Safety valve for prevention against too much force
- With automatic return
- Includes hydraulic hose with quick coupling

Technical data:

Connection thread:	Cejn quick coupling
Volume:	1,4 l
Operating pressure:	700 bar
Tube length:	2200 mm

			kg	
440.0055	3 pcs	Pneumatic hydraulic pump set	6.32	

consists of:

		g	
440.0056	Pneumatic hydraulic pump	5220	
440.0057	Hydraulic hose, 2200 mm	900	
440.0058	Cejn quick coupling	200	

Manometer

- With Cejn quick coupling for direct coupling to all KS Tools hydraulic pumps
- With easy-to-read scale in psi and bar

Caution: The maximum pressure values for the hydraulic cylinder and given in the appropriate operator's manual

		g	
440.0063	Manometer	500	

ADAPTER

Klann hydraulic to KS PP2-tool

- For using the Klann hydraulic cylinder (17 t) with KS Tools tool 1.1/2" internal thread
- Adapter 2.1/4"-14 UNS (Klann thread) to 1.1/2" PP2
- Special steel

		kg	
440.0038	Klann hydraulic to KS PP2-tool	1.08	

KS hydraulic PP2 to Klann tools

- For use with the KS Tools hydraulic cylinder PP2 (8.5-22 t) with Klann special tool
- Adapter 1.1/2" PP2 to 2.1/4"-14 UNS (Klann thread)
- Special steel

		g	
440.0036	KS hydraulic PP2 to Klann tools	200	

KS hydraulic PP2 to Klann (commercial vehicles-commercial vehicles-special tools)

- For using the KS tools hydraulic cylinder PP2 (32t) with the Klann special tool (connection 2.3/4"-16 UNS)
- Adapter 2.1/2" PP2 to 2.3/4"-16 UNS (Klann thread)
- Special steel

		g	
440.0409	KS hydraulic PP2 to Klann (commercial vehicles-commercial vehicles-special tools)	760	

KS hydraulic PP2 to Sauer, Müller, KS PP1 tools

- For use of the KS Tools hydraulic cylinder PP2 (8,5-22 t) with Sauer-, Müller-, KS PP1 special tools
- Adapter 1.1/2" PP2 to 2.1/4"-16 UN (Sauer, Müller, KS PP1)
- Special steel

		g	
440.0034	KS hydraulic PP2 to Sauer, Müller, KS PP1 tools	230	

Paschke hydraulic to KS PP2 tools

- For using the Paschke hydraulic cylinder with KS Tools special tools PP2
- Adapter M68x2 mm (Paschke thread) to 1.1/2" PP2
- Special steel

		g	
440.0407	Paschke hydraulic to KS PP2 tools	110	

KS hydraulic to Paschke tools

- For using the Paschke KS Tools hydraulic cylinder PP2 (8,5-22 t) with Paschke special tools
- Adapter 1.1/2" PP2 auf M68x2 mm (Paschke thread)
- Special steel

		g	
440.0408	KS hydraulic to Paschke tools	330	

KS hydraulic PP2 to KS commercial vehicles-special tools

- For use with hydraulic cylinder PP2 (16 and 22 t) to KS Tools tools PP2 with 2.1/2" thread
- Adapter 1.1/2" PP2 to 2.1/2" thread PP2 (large traverse - commercial vehicles)
- Special steel

		g	
440.0037	KS hydraulic PP2 to KS commercial vehicles-special tools	570	

PRESS STAND SYSTEM PP II

Universal press stand

- With open stand plate and adapter ring set
- Ideal for replacing ball joints and rear-axle bushes
- Can be used directly on the vehicle
- Adjustable with ball joint press sleeves from KS Tools
- For use with hydraulic cylinder
- Secure and easy to use
- Special steel

Recommended hydraulic cylinder: 14 t (440.0015), 16 t (440.0005), 22 t (440.0010)

			kg	
440.0180	9 pcs	Universal press stand	5.62	

consists of:

	x		g	
440.0176	1	Upper traverse with internal thread 1.1/2"	2040	
440.0178	2	Connecting struts	440	
440.0179	4	Screw M16 x 40 mm	80	
440.0185	1	Insert ring	340	
440.0204	1	Lower traverse with open side	2040	

SILENT BEARING TOOL SYSTEM PP II

Silent bearing tool set for BMW rear axles

- For the assembly and disassembly of the rear axle silent bearings
- Ideal for secure bearings
- Secure and easy to use
- For use with hydraulic cylinder
- Special steel

Recommended hydraulic cylinder: 16 t (440.0005), 22 t (440.0010)
Application range: BMW E60- 65 (5 series, 6 series, 7 series), E81-E88 (1 series), E90 (3 series)

			kg	
440.0255	21 pcs	Silent bearing tool set for BMW rear axles	12.87	

consists of:

		g	
440.0153	Pressure pipe Touring	1460	
440.0154	Pressure disk Touring	1310	
440.0256	Assembly disk E32/E34	740	
440.0121	Pressure sleeve	1620	
440.0254	Pressure disk	480	
440.0257	Retainer ring E32/E34	320	
440.0252	Retainer ring	660	
440.0253	Assembly disk	1040	
440.0008	Pressure rod, M18/M22, 250 mm	440	
440.0258	Pressure rod, M18/M22, 180 mm	320	
440.0259	Assembly ring	160	
440.0261	Retainer	440	
440.0262	Disk with thread	480	
440.0263	Disk with thread	380	
440.0264	Pressure disk	520	
440.0266	Retainer ring	640	
440.0267	Assembly ring	100	
440.0268	Disk with thread	740	
440.0046	Adapter, M22-M14	40	
440.0043	Pressure rod, M14, 250 mm	240	
440.0269	Retainer plate E32/E34	740	

Silent bearing tool set for BMW X5 rear axles

- For the assembly and disassembly of the rear axle silent bearings
- Ideal for secure bearings
- Simple and safe manual operation
- For use with hydraulic cylinder
- Special steel

Recommended hydraulic cylinder: 16 t (440.0005), 22 t (440.0110)
Application range: BMW X5 (E53)

			kg	
440.0250	8 pcs	Silent bearing tool set for BMW X5 rear axles	7.77	

consists of:

		g	
440.0251	Disk with thread	760	
440.0252	Retainer ring	660	
440.0253	Assembly disk	1040	
440.0121	Pressure sleeve	1620	
440.0254	Pressure disk	480	
440.0153	Pressure pipe Touring	1460	
440.0154	Pressure disk Touring	1310	
440.0008	Pressure rod, M18/M22, 250 mm	440	

Wishbone bush set for Ford Transit, front

- For the assembly and disassembly of the rear wishbone bushes on the front wishbone
- Correct installation and removal directly on the vehicle
- Ideal for use on secure bearing bushes
- For use with hydraulic cylinder
- Secure and easy to use
- Special steel

Recommended hydraulic cylinder: 16 t (440.0005), 22 t (440.0010)
Application range: Ford Transit > 2000

			kg	
440.0285	5 pcs	Wishbone bush set for Ford Transit, front	1.94	

consists of:

		g	
440.0286	Pressure sleeve	500	
440.0287	Pressure tube	1100	
440.0043	Pressure rod, M14, 250 mm	240	
440.0046	Adapter, M22-M14	40	
440.0049	Collar nut, M14	60	

Wishbone bush set, read for Ford/Mazda/Volvo

- For assembly and disassembly of the rear axle bushes
- For use with the universal press stand (440.0180)
- Ideal for use directly on the vehicle
- Simple handling
- Saves a lot of time
- Special steel

Application range: Ford Focus >1999, Mazda 3 >2004, Volvo V50/S40 >2004

			kg	
440.0225	4 pcs	Wishbone bush set, read for Ford/ Mazda/Volvo	1.82	

consists of:

		g	
440.0226	Disassembly/assembly sleeve	800	
440.0227	Assembly disk	500	
440.0228	Retainer ring	320	
440.0229	Pressure disk	200	

Silent bearing tool set for Ford / Volvo

- For the assembly and disassembly of the rear axle silent bearings
- Ideal for secure bearings
- Required for correct installation
- Secure and easy to use
- For use with hydraulic cylinder
- Special steel

Recommended hydraulic cylinder: 14 t (440.0015), 16 t (440.0005), 22 t (440.0010)
Application range: Ford Mondeo, S-Max, Galaxy >2007, Volvo S60, S80, V60, V70, XC60, XC70 >2007

			kg	
440.0245	7 pcs	Silent bearing tool set for Ford / Volvo	6.76	

consists of:

	X		g	
440.0246	1	Adapter ring	180	
440.0247	1	Press frame	2460	
440.0248	1	Pressure tube	1320	
440.0249	1	Pressure plate	600	
440.0176	1	Plate with thread	2040	
440.0179	2	Screw M16 x 40 mm	80	

Silent bearing tool set for Hyundai rear axles

- For the assembly and disassembly of the rear axle silent bearings
- Ideal for replacing all four bushes on the rear axle
- Work directly on the vehicle
- For use with hydraulic cylinder
- Secure and easy to use
- Special steel

Recommended hydraulic cylinder: 16 t (440.0005), 22 t (440.0010)
Application range: Hyundai Santa Fe 2006-2012

			kg	
440.0275	8 pcs	Silent bearing tool set for Hyundai rear axles	5.08	

consists of:

		g	
440.0276	Pressure tube	960	
440.0277	Pressure disk	880	
440.0278	Disassembly disk	420	
440.0279	Pressure disk	660	
440.0281	Assembly disk	980	
440.0282	Disassembly ring	420	
440.0283	Disassembly ring	260	
440.0084	Pressure tube	500	

Steering bushes set for Mercedes, rear

- For the assembly and disassembly of the rear, lower bushes in the axle body
- Correct assembly and disassembly directly on the vehicle
- For use with hydraulic cylinder
- Secure and easy to use
- Special steel

Recommended hydraulic cylinder: 16 t (440.0005), 22 t (440.0010)
Application range: Mercedes C, E and S class

			kg
440.0270	7 pcs	Steering bushes set for Mercedes, rear	1.62

consists of:

		g
440.0271	Disassembly ring	80
440.0272	Assembly sleeve	160
440.0273	Pressure tube	980
440.0274	Retainer ring, installation	60
440.0043	Pressure rod, M14, 250 mm	240
440.0046	Adapter, M22-M14	40
440.0049	Collar nut, M14	60

Rear axle bushes set for Renault

- Ideal for the assembly and disassembly of rear axle bushes
- For use with the universal press stand (440.0180)
- Can be used directly on the vehicle
- Simple handling
- Saves a lot of time
- Special steel

Application range: Renault Laguna 2

			kg
440.0205	3 pcs	Rear axle bushes set for Renault	2.60

consists of:

		g
440.0206	Pressure piece	540
440.0207	Pressure piece	900
440.0208	Pressure piece	1160

Double silent bearing set, VAG

- For the assembly and disassembly of the double silent bearings on VAG
- Correct installation and removal directly on the vehicle
- Secure and easy to use
- For use with hydraulic cylinder
- Special steel

Recommended hydraulic cylinder: 16 t (440.005) and 22 t (440.0010)
Application range: Volkswagen Caddy 2004-2010, Eos > 2006, Golf V 2003-2009, Scirocco > 2005, Jetta 2005-2010, Passat 2005-2010, Tiguan > 2007, Touran > 2003, Seat Altea > 2004, Leon > 2005, Toledo 2004-2009, Škoda Octavia 2004-2010, Audi A3 > 2005, TT 2006-2010

			kg
440.0290	3 pcs	Double silent bearing set, VAG	1.44

consists of:

		g
440.0291	Pressure tube	1220
440.0292	Pressure disk	660
440.0293	Assembly pipe	560

Silent bearing set for Volkswagen/Audi/Seat/Škoda

- For the assembly and disassembly of the rear, lower bushes in the double wishbone
- Robust spindle with inductive hardened thread
- Ideal for manual use
- Secure and easy to use
- Special steel

Application range: Volkswagen Polo 9N, Fox, Audi A2 2000-2005, Seat Ibiza, Altea, Cordoba 2003-2005, Škoda Fabia 2000-2004 and similarly constructed vehicles

			kg
440.0295	7 pcs	Silent bearing set for Volkswagen/ Audi/Seat/Škoda	1.46

consists of:

	x		g
440.0049	2	Collar nut, M14	60
440.0234	1	Pressure rod M14, L = 150 mm	140
440.0296	1	Disassembly/assembly disk	440
440.0297	1	Pressure tube	340
440.0298	1	Assembly disk	280
440.0299	1	Disassembly disk	200

Wishbone bushes set for Volkswagen T5, front

- For the assembly and disassembly of the rear wishbone bushes on the front wishbone
- Correct installation and removal directly on the vehicle
- Ideal for use on secure bearing bushes
- For use with hydraulic cylinder
- Secure and easy to use
- Special steel

Recommended hydraulic cylinder: 16 t (440.0005), 22 t (440.0010)
Application range: Volkswagen T5 2004-2013

			kg
440.0415	5 pcs	Wishbone bushes set for Volkswagen T5, front	1.46

consists of:

		g
440.0416	Pressure rod, L = 250 mm	240
440.0417	Pressure plate	340
440.0418	Sleeve	780
440.0049	Collar nut, M14	60
440.0046	Adapter, M22-M14	40

Rear axle bushes set for Volkswagen/Audi/Seat/Škoda

- For the assembly and disassembly of the rear axle bushes
- For use with the universal press stand (440.0180)
- Ideal for use directly on the vehicle
- Simple handling
- Saves a lot of time
- Special steel

Application range: Audi A3, Volkswagen Golf 4, Seat Ibiza, Škoda Fabia

			kg
440.0210	4 pcs	Rear axle bushes set for Volkswagen/Audi/Seat/Škoda	1.65

consists of:

	x		g
440.0213	1	Disassembly sleeve	600
440.0214	1	Disassembly ring	300
440.0216	1	Assembly sleeve	570
440.0217	1	Assembly ring	160

Universal press tool set

- For the assembly and disassembly of bearings, bushes and ball joints
- Adapter and pressure crank allow for use with the universal press stand (440.0180)
- 24 press sleeves in different sizes
- 61 various internal and external diameters between 30.5 mm and 79.7 mm
- Universal usage for passenger cars and transporters
- Excellent usage also with work bench press
- Special steel

			kg
440.0300	26 pcs	Universal press tool set	9.67

consists of:

		g
440.0348	Adapter plate	250
440.3049	Adjustable pressure rod M24 x 90 mm	280
440.0301	Press sleeve 40.7 x 42.5 x 35.2 mm	200
440.0302	Press sleeve 43.7 x 45.5 x 38.2 mm	220
440.0303	Press sleeve 46.7 x 48.5 x 41.2 mm	260
440.0304	Press sleeve 49.7 x 51.5 x 44.2 mm	280
440.0305	Press sleeve 52.7 x 54.5 x 47.2 mm	320
440.0306	Press sleeve 55.7 x 57.5 x 50.2 mm	360
440.0307	Press sleeve 58.7 x 69.5 x 53.2 mm	400
440.0308	Press sleeve 61.7 x 63.5 x 56.2 mm	440
440.0309	Press sleeve 65.7 x 67.5 x 60.2 mm	500
440.0310	Press sleeve 69.7 x 71.5 x 64.2 mm	560
440.0311	Press pipe 38.7 x 44.7 x 30.5 mm	260
440.0312	Press pipe 41.7 x 44.7 x 34 mm	260
440.0313	Press pipe 44.7 x 44.7 x 37.2 mm	260
440.0314	Press pipe 47.7 x 55 x 40.2 mm	320
440.0315	Press pipe 50.7 x 55 x 43.2 mm	320
440.0316	Press pipe 53.7 x 55 x 46.2 mm	320
440.0317	Press pipe 56.7 x 55 x 49.2 mm	340
440.0318	Press pipe 59.7 x 70 x 52.2 mm	480
440.0319	Press pipe 62.7 x 70 x 55.2 mm	480
440.0320	Press pipe 65.7 x 70 x 58.2 mm	480
440.0321	Press pipe 68.7 x 70 x 61.2 mm	480
440.0322	Press pipe 71.7 x 70 x 64.2 mm	500
440.0323	Press pipe 75.7 x 75.7 x 68.2 mm	540
440.0324	Press pipe 79.7 x 79.7 x 72.2 mm	560

Universal press tool expansion set

- Ideal sleeve assortment for expanding the press tool set (440.0300)
- For use with the universal press stand (440.0180)
- For use on passenger cars and transporters
- 11 press rings in different sizes
- Excellent usage also with work bench press
- Optimal for bushes, bearings and ball joints
- Special steel

			kg	
440.0325	12 pcs	Universal press tool expansion set	4.42	

consists of:

		g	
440.0204	Plate with open side	2040	
440.0326	Press ring 59 x 70 x 52.2 mm	180	
440.0327	Press ring 62 x 70 x 55.5	160	
440.0328	Press ring 65 x 70 x 58.2 mm	140	
440.0329	Press ring 68 x 70 x 61.2 mm	120	
440.0331	Press ring 71 x 90 x 64.2 mm	300	
440.0332	Press ring 74 x 90 x 67.2 mm	280	
440.0333	Press ring 77 x 90 x 70.2 mm	260	
440.0334	Press ring 80 x 90 x 73.2 mm	240	
440.0336	Press ring 84 x 90 x 77.2 mm	200	
440.0337	Press ring 88 x 90 x 81.2 mm	160	
440.0338	Adapter	340	

SILENT BEARING TOOL SYSTEM PP III

Silent bearing set for BMW and Mini front axle

- For the assembly and disassembly of the front silent bearings (hydro bearing) in the wishbone
- Saves a lot of time since the replacement is carried out as it is
- Special steel

Application range: BMW Mini R50 Mini One, One D and Cooper from 2001-2006 and R53 Mini Cooper S from 2002-2006

Caution: The spindles must be greased before fi st use! Overloading leads to unwanted material stresses or breakage Always check the power settings on the drive with a torque wrench

			kg	
700.2135	7 pcs	Silent bearing set for BMW and Mini front axle	3.40	

consists of:

		g	
700.2136	Spindle	250	
700.2137	Nut with bearing	160	
700.2138	Pulling sleeve	608	
700.2139	Bush with serrated edge	633	
700.2140	Disassembly bush with thread	317	
700.2141	Assembly bush with thread	391	
700.2142	Assembly bush without thread	393	

Silent bearing tool set for BMW rear axles

- For assembly and disassembly of the lower silent bearings on the rear axle
- No removal of the wheel mounts
- With pre-tensioning tool suitable for slit silent bearings
- For damage-free installation
- Special steel

Application range: BMW E81/E82/E87/E88 and BMW E90/E91/E92/E93 silent bearings on the rear axle

			kg	
700.2145	10 pcs	Silent bearing tool set for BMW rear axles	3.84	

consists of:

		g	
700.2146	Spindle M12 x 1.75 mm	143	
700.2147	Nut, M12 x 1.75 mm	105	
700.2148	Tension wrench with t-handle	687	
700.2149	Press piece 1 x 57.0 mm	468	
700.2150	Press piece 2 x 45.0 mm	232	
700.2151	Press piece 3 x 43.0 mm	194	
700.2152	Press piece 4 x 58.0 mm	388	
700.2153	Press piece 5 x 58.0 mm	420	
700.2154	Press piece 6 x 54.7 mm	240	
700.2155	Press piece 7 x 53.9 mm	300	

Silent bearing tool set for BMW rear axles

- For assembly and disassembly of the front and rear spherical bearings
- For all rear axle supports
- For assembly in built in condition
- With pre-tensioning tool suitable for rubber bearings
- For damage-free installation and removal
- Special steel

Application range: BMW E81/E82/E87/E88 and BMW E90/E91/E92/E93 spherical bearings on the rear axle

			kg	
700.2160	13 pcs	Silent bearing tool set for BMW rear axles	7.20	

consists of:

	X		g	
700.2161	1	Spindle, M16 x 2.0 mm	350	
700.2162	1	Ring, Ø 32.4 mm	30	
700.2163	2	Nut, M16 x 2.0 mm	68	
700.2164	1	Pre-tensioning tool	1928	
700.2165	1	Pressure piece, 58.0 x 38.0 mm	218	
700.2166	1	Pressure piece, 42.0 x 62.7 mm	198	
700.2167	1	Pressure piece, 123.0 x 95.0 mm	1106	
700.2168	1	Pressure piece, 128.0 x 100.0 mm	1194	
700.2169	1	Pressure piece, 84.0 mm	642	
700.2170	1	Pressure piece, 89.0 mm	526	
700.2171	1	Pressure piece, 87.0 mm	418	
700.2172	1	Pressure piece, 99.0 mm	498	

Silent bearing tool set for Ford and Volvo rear wheel mounting

- For assembly and disassembly of silent bearings both on and off the vehicle
- Removes the necessity to remove the brake pipes and securing plate
- Saves a lot of time
- Special steel

Application range: Ford Galaxy from 2006-2010, Ford Mondeo from 2007-2013, Ford S-May from 2006-2013, Volvo S60 from 2010-2013, Volvo V70 from 2007-2013

Caution: The spindles must be greased before fi st use! Overloading leads to unwanted material stresses or breakage Always check the power settings on the drive with a torque wrench

			kg	
700.2210	5 pcs	Silent bearing tool set for Ford and Volvo rear wheel mounting	7.80	

consists of:

	X		kg	
700.2211	1	Press screw M24 with bearing	0.53	
700.2212	1	Press frame	4.35	
700.2213	1	Beaker for installation and removal	2.00	
700.2214	1	Separator ring	0.30	
700.2215	1	Step ring	0.40	

Silent bearing tool set for Land Rover wishbone

- For assembly and disassembly of silent bearings both on and off the vehicle
- Minimises the normally necessary disassembly work hugely
- Removes the complete removal of the wishbone
- Saves a lot of time
- Special steel

Application range: Land Rover Discovery 3 and Range Rover Sport

Caution: The spindles must be greased before fi st use! Overloading leads to unwanted material stresses or breakage Always check the power settings on the drive with a torque wrench

			kg	
700.2220	11 pcs	Silent bearing tool set for Land Rover wishbone	4.37	

consists of:

700.2221	Spindle M16 x 1.5	45
700.2222	Press bull	750
700.2223	Assembly plate	800
700.2224	Assembly disk	584
700.2225	Press bell, large	1271
700.2182	Press nut M16	151
700.2183	Counter nut M16	51
700.2228	Half-shell pair with screws and nuts, 4 pcs	725

Silent bearing tool set for Land Rover rear axle

- For assembly and disassembly of silent bearings both on and off the vehicle
- For the upper silent bearings on the rear wheel mounting
- Saves a lot of time
- Special steel

Application range: Land Rover Discovery 3, Land Rover Discovery 4, Range Rover Sport and Land Rover L322

Caution: The spindles must be greased before fi st use! Overloading leads to unwanted material stresses or breakage Always check the power settings on the drive with a torque wrench

700.2230	5 pcs	Silent bearing tool set for Land Rover rear axle	1.19

consists of:

700.2201	Spindle M12 x 1.75	191
700.2232	Press bell, large	497
700.2233	Press bell, small	200
700.2202	Press nut M12	171
700.2203	Counter nut, M12 x 1.75	20

Silent bearing tool set for Land Rover rear wheel mounting

- For assembly and disassembly of silent bearings both on and off the vehicle
- For the lower silent bearings on the rear wheel mounting
- Saves a lot of time
- Special steel

Application range: Land Rover Discovery 3, Land Rover Discovery 4, Range Rover Sport and Land Rover L322

Caution: The spindles must be greased before fi st use! Overloading leads to unwanted material stresses or breakage Always check the power settings on the drive with a torque wrench

700.2240	6 pcs	Silent bearing tool set for Land Rover rear wheel mounting	1.77

consists of:

700.2201	Spindle M12 x 1.75	191
700.2242	Bush slit	700
700.2243	Press bell, large	340
700.2244	Press bell, small	235
700.2202	Press nut M12	171
700.2203	Counter nut, M12 x 1.75	20

Silent bearing tool set for Mitsubishi Lancer wishbone

- For assembly and disassembly of silent bearings both on and off the vehicle
- Removes work on ball joints
- Saves a lot of time
- Special steel

Application range: Mitsubishi Lancer EVO 4/5/6 from 1996-2001

Caution: The spindles must be greased before fi st use! Overloading leads to unwanted material stresses or breakage Always check the power settings on the drive with a torque wrench

700.2200	5 pcs	Silent bearing tool set for Mitsubishi Lancer wishbone	975

consists of:

700.2201	Spindle M12 x 1.75	191
700.2202	Press nut M12	171
700.2203	Counter nut, M12 x 1.75	20
700.2204	Pressure sleeve	505
700.2205	Pressure piece	88

Silent bearing cutting set for Nissan, Renault and Opel front axles

- For the disassembly of silent bearings on and off the vehicle
- Simple removal of the outer ring of the silent bearing
- Due to the construction of the help frame and the silent bearings with heightened external ring of the silent bearing must be cut
- Once the external ring has been cur the rest of the silent bearing can be pressed in with 700.2180
- Removes removal of the help frame
- Saves a lot of time since the replacement is carried out built in
- Special steel

Application range: Renault Trafi , Nissan Primaster, Opel Vivaro 2001-2013

700.2190	4 pcs	Silent bearing cutting set for Nissan, Renault and Opel front axles	393

consists of:

700.2191	Hole saw attachment bracket	53
700.2192	Hole saw Ø 54 mm	129
700.2193	Conical brass silent bearing guide	91
700.2194	1/4" centring shank	120

Silent bearing tool set for Nissan, Renault and Opel front axle

- For assembly and disassembly of silent bearings both on and off the vehicle
- Removes the removal of the help frame in connection with 700.1290
- Saves a lot of time since the replacement is carried out built in
- Special steel

Application range: Renault Trafi , Nissan Primaster, Opel Vivaro 2001 – 2013

Caution: The spindles must be greased before fi st use! Overloading leads to unwanted material stresses or breakage Always check the power settings on the drive with a torque wrench

700.2180	7 pcs	Silent bearing tool set for Nissan, Renault and Opel front axle	2.42

consists of:

700.2181	Spindle M16	280
700.2182	Press nut M16	151
700.2183	Counter nut M16	51
700.2184	Press sleeve, large	847
700.2185	Pressure plate	330
700.2186	Conical press sleeve	220
700.2187	Press sleeve, small	543

Silent bearing tool set for Audi and Volkswagen

- For the assembly and disassembly of silent bearings, hydro and plastic bearings
- Can be used directly on the vehicle
- Saves a lot of time
- For use with the universal press frame 700.1751 and spindle
- Special steel

Application range: Audi A2, A3, Volkswagen Golf 4

700.2340	9 pcs	Silent bearing tool set for Audi and Volkswagen	4.20

consists of:

		g	
700.2341	Counter bearing with recess	718	
700.2342	Separating device	1880	
700.2343	Internal hexagon screw M12 x 50, 2 pcs.	54	
700.2344	Press bolts with nut M12 x 200	200	
700.2347	Pressure piece	639	
700.2348	Press piece with opening	520	
700.2349	Press piece for hydro bearings	620	
700.2350	Press piece for plastic bearings	652	

Silent bearing tool set for VAG Front axle consoles

- With this tool the plastic silent bearing of the front axle console can be correctly and quickly dismantled and mounted
- By means of the specially pressure piece the plastic housing is safely accepted by what means a damage-free assembly is enabled
- With this the tool it can incorporated the condition and can the costly correction of the axle alingment and the dismantling of often strongly console-reinforcements-screws that cam be corroded
- Simple handling
- Enables use directly on the vehicle
- High time savings
- Adapter with protective axle-pressure thrust bearing -spindle
- Axle alignment can been omitted
- In durable plastic storage case

Application range: Volkswagen Polo (9N), Seat Ibiza IV, Cordoba (from model 2002), Altea, Skoda Fabia, Roomster, Audi A2 + structurally identical group vehicles

			kg	
700.1650	8 pcs	Silent bearing tool set for VAG Front axle consoles	3.20	

consists of:

		g	
700.1651	Working spindle M10x1,25, 180 mm	170	
700.1652	Spindle extension M10x1,25, 200 mm	140	
700.1653	Special nut with cone shaft 45mm	80	
700.1654	Special adaptor with thrust bearing	160	
700.1655	Thrust plate stepped Ø74mm, installation	390	
700.1656	Special thrust piece Ø74mm, installation	1070	
700.1657	Distance piece with knurled, extension	240	
700.1658	Distance piece with collar, extension	240	

Silent bearing tool set for VAG rear axles

- For assembly and disassembly of bearings both on and off the vehicle
- For the replacement of silent bearings from the wheel bearing housing, axle guide/trailing arm, wishbone lower/internal as built in, push rod and the upper wishbone not built-in
- For use alongside mechanical spindle
- Special steel
- In durable plastic storage case

Application range: Volkswagen Golf 5 Plus/Variant/4 Motion from 2005-2012; Volkswagen Scirocco 2009-2012; Volkswagen Beetle >2012; Volkswagen EOS 2006-2012; Seat Altea from 2004-2012; Seat Leon from 2006-2012; Seat Toledo from 2005-2009; Audi A3/S3 from 2004-2012; Audi TT/TTS Coupe/Roadster from 2007-2012

Caution: The spindles must be greased before fi st use! Overloading leads to unwanted material stresses or breakage Always check the power settings on the drive with a torque wrench

			kg	
700.2110	18 pcs	Silent bearing tool set for VAG rear axles	4.24	

consists of:

		g	
700.2111	Pressure piece, 35.7 mm	60	
700.2112	Pressure piece, 37.6 mm	160	
700.2113	Pressure piece, 37.6 mm	80	
700.2114	Pressure piece, 39.5 mm	100	
700.2115	Pressure piece, 41.3 mm	100	
700.2116	Pressure piece, 42.0 mm	60	
700.2117	Pressure piece, 49.0 mm	300	
700.2118	Pressure piece, 49.9 mm	60	
700.2119	Pressure piece, 50.0 mm	220	
700.2120	Pressure piece, 59.4 mm	220	
700.2121	Pressure piece, 67.0 mm	300	
700.2122	Pressure piece, 80.0 mm	160	
700.2123	Pressure piece, 80.0 mm	320	
700.2124	Pressure piece, 80.4 mm	840	
700.2108	Ring, Ø 40.0 mm	60	
700.2130	Drive spindle M12 x 1.5, including press nut and nuts	310	

Silent bearing tool set for VAG rear axles

- For assembly and disassembly of the rubber meta or rubber plastic bearings on the rear axle
- For use alongside mechanical spindle
- For secure bearings a hollow piston cylinder may also be used
- Special steel
- In durable plastic storage case

Application range: Audi A3; Volkswagen Golf 4; Škoda Octavia >1997, Seat Leon; Toledo >2001

Caution: The spindles must be greased before fi st use! Overloading leads to unwanted material stresses or breakage Always check the power settings on the drive with a torque wrench

			kg	
700.2100	11 pcs	Silent bearing tool set for VAG rear axles	4.98	

consists of:

		g	
700.2101	Pressure piece, 68.7 mm	340	
700.2102	Pressure piece, 76.6 mm	580	
700.2103	Pressure piece, 83.8 mm	780	
700.2104	Pressure piece, 90.0 mm	300	
700.2105	Pressure piece, 90.3 mm	1030	
700.2106	Pressure piece, 96.3 mm	620	
700.2107	Pressure piece, 97.9 mm	100	
700.2108	Ring, Ø 40.0 mm	60	
700.2130	Drive spindle M12 x 1.5, including press nut and nuts	310	

Drive spindle

- Pressure bearing protects against increased friction during the process
- Spindle M12 x 1.5
- Double sided press bearing for quick installation and removal of bushes
- Includes press nut and nuts
- Chrome molybdenum

Caution: The spindles must be greased before fi st use! Overloading leads to unwanted material stresses or breakage Always check the power settings on the drive with a torque wrench

			g	
700.2130	3 pcs	Drive spindle	310	

consists of:

		g	
700.2126	Spindle M12	180	
700.2125	Press nut M12	120	
700.2109	Thrust bolt	10	

CAMBER ADJUSTMENT TOOLS

Camber level

- Ideally suited to adopting the prescribed camber adjustment values before removing the shock absorbers
- The level is secured with the magnetic side on the brake discs or wheel hubs and the value can be read
- Following the repair the adjustment value is easily restored
- Quick and correct work without a great amount of effort
- Saves measuring the axle
- With adjustment wheel to allow for a zero setting
- Includes strong magnetic feet
- In durable plastic storage case

	Total length mm	g	
150.9431	125.0	450	

Camber adjustment tool

- Ideally suited to setting the camber on vehicles with separated spring feet
- One-man operation
- The tool is tensioned between the rim and the bodywork (wings)
- Clear reduction in time required
- Adjustment is carried out by turning the sturdy hexagonal nut
- External drive hexagonal socket 22.0 mm
- Special steel

Application range: Seat Cordoba, Volkswagen Polo > 1995, etc.

	Clamping range mm	kg	
150.9420	135,0 - 200,0	1.21	

Camber adjustment tool

- Ideally suited to setting the camber on vehicles with separated spring feet
- One-man operation
- The tool is tensioned between the rim and the bodywork (wings)
- Clear reduction in time required
- Adjustment is carried out by turning the sturdy hexagonal nut
- External drive hexagonal socket 22.0 mm
- Special steel

Application range: Seat Toledo, Volkswagen Golf, Jetta, etc.

	Clamping range mm	kg	
150.9415	135,0 - 175,0	1.16	

Camber setting tool for BMW

- Ideally suited to setting the camber on the front axle
- It is used after knocking out the locating bolt of the strut bearing in a downwards direction via the spring strut bearing
- Quick and correct work without a great amount of effort
- One-man operation
- The adjustment process is carried out via the exact alignment of the upper spring strut bearing
- Without this tool the correct and exact adjustment of the camber is almost impossible
- Aluminium

Application range: BMW 1 series (E81, E82, E87, E88), 3 series (E46, E90, E91, E92, E93), X3 (E83), X5 (E53), Z4 (E85, E86)

	Ø mm	Height mm	g	
150.1821	82,0	25.0	347	

Camber setting tool for BMW

- Ideally suited to setting the camber on the front axle
- It is used after knocking out the locating bolt of the strut bearing in a downwards direction via the spring strut bearing
- Quick and correct work without a great amount of effort
- One-man operation
- The adjustment process is carried out via the exact alignment of the upper spring strut bearing
- Without this tool the correct and exact adjustment of the camber is almost impossible
- Aluminium

Application range: BMW 5 series, (E39, E60, E61), 6 series (E63, E64), 7 series (E38, E65, E66, E67)

	Ø mm	Height mm	g	
150.1822	83,0	17.0	343	

BMW camber setting tool set

- Ideally suited to setting the camber on the front axle
- It is used after knocking out the locating bolt of the strut bearing in a downwards direction via the spring strut bearing
- Quick and correct work without a great amount of effort
- One-man operation
- The adjustment process is carried out via the exact alignment of the upper spring strut bearing
- Without this tool the correct and exact adjustment of the camber is almost impossible
- Aluminium

Application range: BMW 1 series (E81, E82, E87, E88), 3 series (E46, E90, E91, E92, E93), 5 series, (E39, E60, E61), 6 series (E63, E64), 7 series (E38, E65, E66, E67), X3 (E83), X5 (E53), Z4 (E85, E86)

			g	
150.1820	2 pcs	BMW camber setting tool set	689	

consists of:

		g	
150.1821	BMW camber adjustment tool, 1 series, 3 series, X3, X5, Z4	347	
150.1822	BMW camber adjustment tool, 5 series, 6 series, 7 series	343	

TRACKING ADJUSTMENT TOOLS

Axle tracking adjustment tool for VAG passenger cars with 4 wheel drive

- Ideally suited to tracking adjustments to the rear axle
- Suitable for the hard-to-reach adjustment screws
- Quick and correct work without a great amount of effort
- One-man operation
- 90° angled
- With 2 component handle
- Matt finis
- Chrome vanadium

Application range: all Audi and Volkswagen vehicles with all-wheel drive, e.g. Audi A4 Quattro, Volkswagen Passat 4motion, etc.

		Total length mm	g	
150.9426	M12	310.0	340	

Axle tracking adjustment tool for Mercedes

- Ideally suited to tracking adjustments to the rear axle
- Suitable for the hard-to-reach adjustment screws
- Quick and correct work without a great amount of effort
- One-man operation
- twice angled
- Without this tool the correct and exact adjustment of the tracking is almost impossible
- Includes interchangeable spline bits
- With 2 component handle
- Matt finis
- Chrome vanadium

Application range: Mercedes C class and S class, also for older models with under body panels and vehicles with level sensors

			g
150.9470	3 pcs	Axle tracking adjustment tool for Mercedes	440

consists of:

		g
150.9471	Basic adjustment tool for Mercedes	410
150.9472	10 mm attachment XZN® bit, M10	14
150.9443	10 mm attachment XZN® bit, M12	16

Tracking adjustment cam nut for BMW

- Ideal for adjusting the tracking on the rear axle as well as camber adjustment on the wishbone
- For adjustment the screws must be removed from the lower wishbone
- By putting in and turning the cam nut on the securing screw the wishbone is moved to the required camber adjustment
- Internal square drive to DIN 3120/ISO 1174
- Special steel

Application range: BMW E36, BMW E46, BMW E83, BMW E85

1/2"

	L mm	g
700.1671	40.0	300

Tracking adjustment tool for Mercedes

- Ideally suited to tracking adjustments to the rear axle
- Removes mounting of the exhaust system
- Saves a lot of time
- No adjustment of the cam screw when removing the counter nut
- External double-hex drive 21 mm with integrated TX 55 use and internal hexagon drive 17 mm
- Special steel

Application range: Mercedes W211, Mercedes C219 and Mercedes W209

	mm		mm	Length mm	g
700.1672	21.0	T55	17	260.0	280

LEVER / PRY BARS

Pry bar

- Ideally suited to assembly and disassembly work
- For pressure testing securely-fi ted parts
- Suitable for positioning parts or holding parts in place
- 1 piece handle
- Hardened
- Chrome molybdenum

	D mm	L1 mm	L2 mm	g
911.8101	11.0	200.0	115.0	130
911.8102	15.0	300.0	185.0	220
911.8103	18.0	450.0	320.0	420
911.8104	18.0	600.0	470.0	560

Pry bar sets

- Ideally suited to assembly and disassembly work
- For pressure testing securely-fi ted parts
- Suitable for positioning parts or holding parts in place
- 1 piece handle
- Hardened
- Chrome molybdenum

			kg
911.8100	4 pcs	11 x 115 mm - 15 x 185 mm - 18 x 320 mm - 18 x 470 mm	1.33

Mechanics pry bar

- Angular lever end guarantees non-slip surface
- With go through blade and hammer cap
- Ideally suited to assembly and disassembly work
- For pressure testing securely-fi ted parts
- Suitable for positioning parts or holding parts in place
- Suitable for the testing of defective bearings
- With two component handle
- Heavy design especially for commercial vehicles
- Special steel

	Bend radius	L mm	kg
911.8411	0°	900.0	1.70
911.8412	45°	900.0	1.75
911.8413	75°	600.0	1.17
911.8414	90°	600.0	1.20
911.8415	45°	1120.0	4.75

Mechanics pry bar set

- Angular lever end guarantees non-slip surface
- With go through blade and hammer cap
- Ideally suited to assembly and disassembly work
- For pressure testing securely-fi ted parts
- Suitable for positioning parts or holding parts in place
- Suitable for the testing of defective bearings
- With two component handle
- Heavy design especially for commercial vehicles
- Special steel
- In durable plastic storage case

			kg
911.8410	4 pcs	Mechanics pry bar set	8.70

consists of:

		kg
911.8411	Mechanics pry bar, straight 900 mm	1.70
911.8412	Mechanics pry bar 45°, angled head 900 mm	1.75
911.8413	Mechanics pry bar 75°, angled head 600 mm	1.17
911.8414	Mechanics pry bar 90°, angled head 600 mm	1.20

Intexable ratchet pry bar

- Extremely versitile and robust execution
- Varible adjustable roll head
- Maximum power transmission in the narrowest area
- Optimal leverage in minimal work area
- Ideally suited for commercial vehicles
- Special steel

	L mm	Assembly levels	g	
911.8176	250.0	5	600	
911.8177	300.0	5	600	
911.8178	400.0	5	600	
911.8179	620.0	5	1810	

Adjustable joint roll head pry bar set

- Extremely versitile and robust execution
- Varible adjustable roll head
- Maximum power transmission in the narrowest area
- Optimal leverage in minimal work area
- Ideally suited for commercial vehicles
- Special steel

			kg	
911.8175	3 pcs	Adjustable joint roll head pry bar set	1.20	

consists of:

		g	
911.8176	Ratched pry bar, 10"	600	
911.8177	Ratched pry bar, 12"	600	
911.8178	Ratched pry bar, 15"	600	

Roller head telescopic pry bar

- Handle can be lengthened by the push button in ratchet steps
- Rolling head adjustable in stages
- Extra thin with embedded rolling head
- Maximum power in the smallest areas
- Optimal leverage in minimal work area
- Ideally suited to assembly and disassembly work
- For pressure testing securely-fi ted parts
- Suitable for positioning parts or holding parts in place
- Suitable for the testing of defective bearings
- Ideal for use in passenger cars and commercial vehicles
- Special steel

	L mm	H mm	B mm	g	
911.8186	325-460	90.0	12.0	780	
911.8187	600-915	120.0	20.0	1900	
911.8188	865-1350	145.0	24.0	4260	

Universal axle lever

- Special lever for the correct and protective dismantling and assembly of axle parts
- Through multiple adjustability of the breadth most different designs it lets itself move without large power expense required
- Protective and certain installation and extension
- The injury risk minimizes
- No second person required
- Universal application by revolving and adjustable claw
- High power, firm s at and time savings also
- Stable construction - optimal stop
- Special steel

	L mm	kg	
700.1460	1000.0	4.36	

AXLE PLAY TEST TOOL

Axle play detector bar

- For localising sources of faults in the vehicle axle area
- Testing under load
- Large time savings during fault diagnostics
- Suitable for all passenger cars up to 3.5 t
- Special steel

Application range: Dome bearings / silent bearings / carrier joint / track rod end / coupling rod / wheel bearings / axial joint / steering gear / stabiliser, etc.

	L1 mm	L2 mm	D1 mm	D2 mm	kg	
700.1465	400.0	400.0	25.0	50.0	1.90	

Movement test device

- Universal usage tool for the determination of sign of wear
- By means of the universal wheel hub fla ge the lever is secured directly to the wheel hub and serves therefore as an extended arm to the absolutely sensitive locating of excess mobilty or changes in the area
- Ideal suited for wheel housings, Silent baerings, ball joints (Tie rod joints) suspension joints/coupling rods etc

	Ø mm	L mm	kg	
700.1455	36,0	840.0	6.00	

consists of:

		kg	
700.1411	Wheel hub/drive fla ge dismatling tool	2.55	
700.1450	Movement Test lever , Reception AG 1.1/2" x 16G	3.24	

Electronic professional stethoscope

- For the professional defect diagnosis
- Serves the acoustic test and judgment of a component under load
- Delivers fast, absolutely clear and unambiguous test results over sounds
- Contains 6 independent sensors that can mounted for example on the vehicle floor or in he engine compartment for ease
- Simple coordination of the defect source through colour coded cable and colour table on the box
- In durable plastic storage case

Application range:
Engine: Valves, baerings, piston pins
Alternator: Bearing sounds
Differential: Barrel sounds
Bodywork: Creak and squeak sounds

			kg	
150.1695	18 pcs	Electronic professional stethoscope	2.50	

consists of:

		g	
150.1695-1	Headset for 150.1695	350	
150.1695-2	Amplifier or 150.1695	115	
150.1695-3	Hand held stethoscope for 150.1695	165	
150.1695-4	Velcro strap for 150.1695, 8 pcs	9	
150.1695-5	Sensor for 150.1695	10	
150.1695-6	Coulour coded cable for 150.1695, 6 pcs	755	

SOCKET SET FOR CHASSIS BOLTING

Impact bit socket for spline(XZN®) screws

- Spline (XZN®)
- Internal square drive to DIN 3121 / ISO 1174
- Short execution
- For machinery usage
- Phosphate finis
- Chrome molybdenum

1/2"

		L mm	D mm	T mm	g	
515.1171	M14	45.0	25.0	20.0	110	
515.1173	M16	45.0	25.0	20.0	120	
515.1175	M18	45.0	25.0	20.0	130	

Impact bit socket for spline(XZN®) scr ews

- Spline (XZN®)
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Phosphate finis
- Chrome molybdenum

1/2"

		L mm	D mm	T mm	g
515.1172	M14	75.0	25.0	50.0	150
515.1174	M16	75.0	25.0	50.0	170
515.1176	M18	75.0	25.0	50.0	190

Impact bit socket set for spline (XZN®) scr ews, long

- Ideal set compilation for motor vehicles
- Spline (XZN®)
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Phosphate finis
- Chrome molybdenum

1/2" 3/4"

			kg
515.1160	7 pcs	Impact bit socket set for spline (XZN®) scr ews, long	1.05

consists of:

		g
515.1167	3/4" Impact socket, 24mm	280
515.1161	1/2" impact socket, XZN, M14 small	83
515.1162	1/2" impact socket, XZN, M14 large	120
515.1163	1/2" impact socket, XZN, M16 small	85
515.1164	1/2" impact socket, XZN, M16 large	83
515.1165	1/2" impact socket, XZN, M18 small	120
515.1166	1/2" impact socket, XZN, M18 large	160

Impact bit socket set

- TX and Spline
- Internal square drive to DIN 3121 / ISO 1174
- Short execution
- For machinery usage
- Matt finis
- Chrome molybdenum
- In durable steel storage case

3/4"

			kg
515.0010	6 pcs	Impact bit socket set	2.20

consists of:

		g
515.0012	3/4" Impact bit socket XZN, short, M16	270
515.0013	3/4" Impact bit socket XZN, short, M18	270
515.0016	3/4" Impact bit socket TX short, T70	270
515.0017	3/4" Impact bit socket TX short, T80	270
515.0018	3/4" Impact bit socket TX short, T90	280
515.0019	3/4" Impact bit socket TX short, T100	290

VIBRO IMPACT

Vibro impact pneumatic chisel hammer set

- With non slip soft grip handle
- Air exhaust through the handle
- Ergonomic designed handle
- Ideal for industry
- Efficien , gentle loosening of screw fi tings
- With stepless impact regulation
- Vibration dampened
- Cold insulated handle
- Includes 1/4" coupling connector
- Ultra light housing from two component plastic

			kg
515.3880	6 pcs	Vibro impact pneumatic chisel hammer set	5.70

consists of:

		kg
515.3881	Pneumatic chisel hammer	2.17
515.3882	Holder for pneumatic chisel hammer	1.55
515.3886	Pneumatic chisel track rod loosener,110mm	0.14
515.3887	Pneumatic chisel hammer,110mm	0.15
515.3888	Pneumatic chisel loosening adapter,130mm	0.16
515.3889	Pneumatic chisel loosening mandrel,100x25x12mm	0.19

Vibro-Power ball joint releaser

- Vibration supported release on ball joints
- Adjustable, e.g. conical seat connections to wheel bearing houses and wishbones
- Pneumatic chisel adapter (10 mm) for use with pneumatic chisel hammers on the market
- Special steel

Caution: May only be used alongside a pneumatic chisel hammer

	Length mm	Width mm	Height mm	Drive	g
515.3884	68.0	40.0	130.0	Ø 10 mm	340

Universal bearing and bush driver set

- Universal applicable range
- Can be used manually with a hammer or workshop press
- Applications from 18.0 - 65.0 mm
- Pressure plates are for the two driving spindles
- Special steel
- In durable plastic storage case

			kg
700.1350	51 pcs	Universal bearing and bush driver set	8.00

consists of:

		g	
700.1348	Reception adaptor, 45mm	500	
700.1349	Impact drive knurled grip, 220mm	42	
700.1351	Pressure plate, 18mm	12	
700.1352	Pressure plate, 19mm	14	
700.1353	Pressure plate, 20mm	16	
700.1354	Pressure plate, 21mm	20	
700.1355	Pressure plate, 22mm	22	
700.1356	Pressure plate, 23mm	27	
700.1357	Pressure plate, 24mm	30	
700.1358	Pressure plate, 25mm	34	
700.1359	Pressure plate, 26mm	38	
700.1360	Pressure plate, 27mm	43	
700.1361	Pressure plate, 28mm	47	
700.1362	Pressure plate, 29mm	50	
700.1363	Pressure plate, 30mm	53	
700.1364	Pressure plate, 31mm	59	
700.1365	Pressure plate, 32mm	65	
700.1366	Pressure plate, 33mm	68	
700.1367	Pressure plate, 34mm	72	
700.1368	Pressure plate, 35mm	77	
700.1369	Pressure plate, 36mm	82	
700.1370	Pressure plate, 37mm	89	
700.1371	Pressure plate, 38mm	94	
700.1372	Pressure plate, 39mm	97	
700.1373	Pressure plate, 40mm	105	
700.1374	Pressure plate, 41mm	111	
700.1375	Pressure plate, 42mm	119	
700.1376	Pressure plate, 43mm	125	
700.1377	Pressure plate, 44mm	132	
700.1378	Pressure plate, 45mm	138	
700.1379	Pressure plate, 46mm	144	
700.1380	Pressure plate, 47mm	153	
700.1381	Pressure plate, 48mm	159	
700.1382	Pressure plate, 49mm	165	
700.1383	Pressure plate, 50mm	172	
700.1384	Pressure plate, 51mm	181	
700.1385	Pressure plate, 52mm	188	
700.1386	Pressure plate, 53mm	196	
700.1387	Pressure plate, 54mm	205	
700.1388	Pressure plate, 55mm	213	
700.1389	Pressure plate, 56mm	221	
700.1390	Pressure plate, 57mm	231	
700.1391	Pressure plate, 58mm	238	
700.1392	Pressure plate, 59mm	247	
700.1393	Pressure plate, 60mm	258	
700.1394	Pressure plate, 61mm	266	
700.1395	Pressure plate, 62mm	276	
700.1396	Pressure plate, 63mm	284	
700.1397	Pressure plate, 64mm	294	
700.1398	Pressure plate, 65mm	305	
700.1399	Support plate, 75mm	500	

EXTRACTOR

Brass and aluminium punch

- For extracting bearing, bolts and bushes, etc.
- Rimed handle for better control
- Brass / Aluminium

	Material	Ø mm	L mm	kg	
156.0415	brass	20,0	300.0	1.13	
156.0416	aluminium	30,0	300.0	1.89	

PRESS UNDERLAYS

Universal press support

- Universal adjustable support
- Through the height adjustable bolts a fix ure and vibration safe 3 level points construction is created
- The amount and arrangement at thread enable the conformity to almost every component surface
- Includes lateral safety device

	L mm	B mm	H mm	Replacement bolt & nut set	kg	
700.1740	245.0	200.0	40.0	700.1741	8.10	

Prism plate extra narrow, Ø 30,0/45.0 mm

- Universally usable plates
- Especially suitable for tight spaces (up to 4 mm)
- For pressing on and off bearings or cogs on bearing shafts, e.g. on engines, transmissions, etc.
- Special steel

	Length mm	Width mm	kg	
700.1744	300.0	170.0	1.10	

Universal prism plate Ø 40.0/63.0/75.0/80 mm

- Universally usable plates
- For the pressing on and off of bearing on rear axles, engines and transmissions
- Special steel

	Length mm	Width mm	kg	
700.1738	245.0	200.0	7.32	

Prism plate Ø 62,0 mm

- Universally usable plates
- For pressing on and off bearings or cogs on bearing shafts, e.g. on engines, transmissions, etc.
- in connection with workshop presses
- Special steel

	Length mm	Width mm	kg	
700.1739	200.0	180.0	4.36	

Prism plate Ø 67,0 mm

- Universally usable plates
- For pressing on and off bearings or cogs on bearing shafts, e.g. on engines, transmissions, etc.
- in connection with workshop presses
- Special steel

	Length mm	Width mm	kg	
700.1742	200.0	180.0	4.28	

Prism plate Ø 72,0 mm

- Universally usable plates
- For pressing on and off bearings or cogs on bearing shafts, e.g. on engines, transmissions, etc.
- in connection with workshop presses
- Special steel

	Length mm	Width mm	kg	
700.1743	200.0	180.0	4.14	