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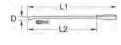


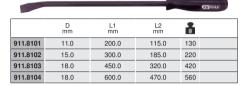
LEVER / PRY BARS

Prv bar

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







Pry bar sets

- · Ideally suited to assembly and disassembly work
- •For pressure testing securely-fitted 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-fitted parts
 Suitable for positioning parts or holding parts in place
- Suitable for the testing of defective bearingsWith two component handle
- Heavy design especially for commercial vehiclesSpecial 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-fitted 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:

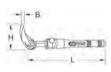
		g	
911.8176	Ratched pry bar, 10"	600	
911.8177	Ratched pry bar, 12"	600	
911.8178	Ratched pry bar, 15"	600	

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-fitted 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	

WISHBONE DISASSEMBLY

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 seat and time savings also
 Stable construction optimal stop
- · Special steel





		L mm	kg	
7	00.1460	1000.0	4.36	

2

1

9

7

12

14

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26

Universal slide hammer

- •Extra heavy and solid execution
- For universal use for automobiles + trucksEnormous 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	

accesso	ries:		
		kg	
700.1411	Wheel hub/drive flange 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	

Bracket hook

- For disassembly of the wishbone from the ball joint clamp
- Special shape allows it to be placed very close to the ball joint
- For use alongside a slide hammer
- •Internal thread M20 x 1.5
- ·Special steel



	000	kg	
700.1424	M20x1,5	2.40	

AXLE PLAY TEST TOOL

Axle play detector bar

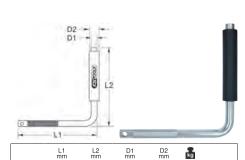
- •For localising sources of faults in the vehicle axle area
- Testing under load
 Large time savings during fault diagnostics
- •Suitable for all passenger cars up to 3.5 t
- ·Special steel

700.1465

400.0

400.0

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



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 flange 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	L mm	kg	
700.1455	36,0	840.0	6.00	

consists of:

		kg	
700.1411	Wheel hub/drive flange 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
- 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 the 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	

		g	
150.1695-1	Headset for 150.1695	350	
150.1695-2	Amplifier for 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	

UNIVERSAL PIVOT PIN EJECTOR

Universal ball joint separator

- For many automobiles and commercial vehicles
- · Special steel



	A mm	B mm	C mm	max N·m	mm	mm	kg	
670.0101	18	40	40	50	M14x1,5x60	17	0.30	
670.0102	25	50	50	120	M16x1,5x60	17	0.70	
670.0103	29	60	60	160	M18x1,5x75	19	1.00	
670.0104	40	80	80	280	G1/2"x14gx110	22	2.10	
670.0105	45	100	90	400	G3/4"x14gx125	27	2.80	
670.0106	58	80	100	280	G1/2"x14gx110	22	2.10	

Universal ball joint ejector

- · For many automobiles and commercial vehicles
- · Special steel



				_			
	A mm	B mm	max t	mm	mm	g	
670.0061	23	55	4	17	M16x1,5 x 60	800	
670.0062	28	55	4	17	M16x1,5 x 60	800	
670 0063	34	63	4	19	M18x1 5 x 70	900	

Universal ball joint extractor

- Tools for removing of carrier joint and tie rod joints or track rod joint studs for steering gear, suspension arm, axle casing and stabiliser
- Universal suitable for passenger cars to commercial vehicles
- Compact and durable design
 Extremely robust spindle with inductively hardened thread



			kg	
670.0060	3 pcs	Universal ball joint extractor	2.90	

consists of:

		9	
670.0061	Ball joint separator, 23mm	800	
670.0062	Ball joint separator, 28mm	800	
670.0063	Ball joint separator, 34mm	900	



Universal ball joint extractor

- •Robust model for loosening the track heads and push pole
- Optimal positioning through compact design and slim fork piece
 •Special steel



	A mm	B	C	mm	mm	kg	
450.0075	45	75	63	24	M22 x 135	1.63	
450.0076	55	100	76	24	M22 x 135	1.84	

UNIVERSAL BALL JOINT EJECTOR WITH LEVER

Universal ball joint separator

- •Extra flat execution
- •Forged •Special steel



	A mm	B mm	mm	mm	g	
700.5620	18	20-37	M14 x 85	16	970	

Universal ball joint separator

- •Extra strong execution
- •Forged
 •Special steel



	A mm	B mm	mm	i i	kg	
700.5625	20	20-37	M12 x 85	16	1.07	

Universal ball joint separator 2 stage adjustable

- · Separator 2 stage adjustable
- Ideal for confined spacesSpindle hexagonal with additional drive point
- Forged
- Special steel







	A mm	B mm	mm	mm	kg	
700.5610	24	0-55	M16 x 90	20	1.05	

Universal ball joint separator

- For separating the ball plug in the extension of the ball joint
- Suitable for many vehiclesSpecial steel





	A mm	B mm	max t	mm	mm	g	
670.0111	18-22	50	3,5	19	M14x1,5x48	900	

Universal ball joint extractor

- Robust model for loosening the track heads and push pole heads
- •Optimal positioning through compact design and slim fork
- piece
 Adjustment of the clamp by means of the spindle
- Special steel



	A mm	B mm	mm	m	kg
450.0070	32	75	M22 x 90	30	2.49
450.0071	45	80	M22 x 90	30	2.61

Universal ball joint separator 4 stage adjustable

- · Separator 4 stage adjustable
- Spindle hexagonal with additional drive point
- Forged
- •Special steel •Stage 1: 24 mm
- •Stage 2: 30 mm
- •Stage 3: 40 mm •Stage 4: 45 mm



	A mm	B mm	mm	mm	kg
700.5630	20	24-45	M14 x 105	18	1.50

Universal ball joint separator 2 stage adjustable

- Separator 2 stage adjustable
- Ideal for confined spacesExtremely high clamping range
- Spindle hexagonal with additional drive point
- Forged
- · Special steel



	A mm	B mm	mm	mm	kg
700.5615	18-24	23-110	M16 x 130	16	1.20

Universal ball joint separator

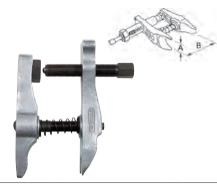
- For separating the ball plug in the extension of the ball joint
- Suitable for many vehicles + transporter
 Also suitable for aluminum undercarriages
- · Special steel



	A mm	B mm	max t	mm	mm	kg	
670.0121	24	50	3,5	17	M16x1,5x70	1.40	
670.0122	24	60-80	3,5	17	M15x1,5x90	1.80	

Universal ball joint separator

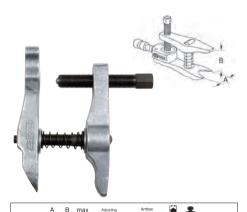
- For separating the ball plug in the extension of the ball joints
- · Suitable for many vehicles + moderately heavy trucks
- •Special steel



	A mm	B mm	max t	mm	mm	kg	
670.0131	36	90	10	22	G1/2"x14gx110	3.70	

Universal ball joint separator

- For separating the ball plug in the extension of the ball joints
- Suitable for many vehicles + moderately heavy trucks
 For bolts Ø 27.0 36.0 mm
- Upgrade without hydraulic cylinder possible Special steel



	mm	mm	t	screw mm	spindle mm	mm	kg	
670.0151	36	90	10	M18x1,5x120	G1/2"x14x110	22	3.50	

Universal ball joint remover set with changeable forks

- •With interchangeable forks Ø 20/22/24/27/30 mm •For separating the ball plug when removing the ball joints
- •Quick changes of the individual pressure forks due to the spring breaker system
- Maximum separation height: 125.0 mm
- · In durable plastic storage case





			kg	
450.0970	7 pcs	Universal ball joint remover set with changeable forks	6.00	

consists of:

		9	
450.0971	Universal ball pin ejector device	2000	
450.0972	Pressure spindle	380	
450.0973	Fork, Ø 20 mm	520	
450.0974	Fork, Ø 22 mm	520	
450.0975	Fork, Ø 24 mm	520	
450.0976	Fork, Ø 27 mm	520	
450.0977	Fork, Ø 30 mm	520	

BALL PIN PULLER VIBRO IMPACT

Ball joint extractor cap "VIBRO IMPACT"

- Pressure pieces embedded in the spindle
- Enormous release power via the turn impact impulse in connection with impact screws
- Impact screws create pressure and vibration at the same time, through which the secure ball joint connections and quickly and safely removed
- Less space required
- Cast forged design
- · With inspection panel
- Special steel



	A mm	B mm	mm	mm	kg	
450.0060	30	58	Tr.22	18	1.10	
450.0061	32	90	Tr.24	25	2.51	

Impact ball joint puller

- · Optimal positioning between suspension arm and axle casing
- Mouted spherical centering point
 Retrofit bar hydraulic pressure spindle
- · Special steel



	A mm	B mm	mm	mm	kg	
450.0085	35	60	M27 x 130	24	3.37	

Ball joint extractor cap "VIBRO IMPACT"

- Pressure pieces embedded in the spindle
- Enormous release power via the turn impact impulse in connection with impact screws
- Impact screws create pressure and vibration at the same time, through which the secure ball joint connections and quickly and safely removed
- · Less space required
- Cast forged design
- With inspection panel
 Special steel



	A mm	B mm	mm	m	kg
450.0062	39	58	Tr.24	25	2.83

Ball joint puller HGV, mechanical

- · Massive execution for loosening the track heads and push pole heads
 • Enormous power through lever transmission
- · Special steel



	A mm	B mm	mm		kg
450.0051	36	70	M24x3x160	36	4.34

Hydraulic universal ball joint extractor set

- Massive execution for loosening the track heads and push pole heads
- Enormous power through lever transmission
- · Requires light expenditure of energy
- · Special steel



			kg	
450.0050	3 pcs	Hydraulic universal ball joint extractor set	6.55	

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Hydraulic universal ball joint separator

- For separating the ball plug in the extension of the ball joints
- •Suitable for many vehicles + moderately heavy trucks •For bolts Ø 27.0 36.0 mm
- ·Special steel





	A mm	B mm	max t	mm	mm	kg	
670.0141	36	90	10	17	1.1/2"x16G	4.70	

CLAMP SCREWS EJECTOR

Clamp screw ejector set without spindle

- For loosening seized clamping screws (M10) on 4-link axles
- For right and left wishbone clamping screws
 For aluminium and steel four link axles
- •Release force up to max. 12 t
- •Universally applicable hydraulic spindle (mounting thread 1.1/2"x16 start)
- Fine adjustment for optimum efficiency
 In durable plastic storage case

Application range: Audi A4, A6, Volkswagen Passat from 97, identical group vehicles







		A mm	kg	
670.0076	3 pcs	65 - 125	2.70	

consists of:

	•	kg	
670.0074	Clamp screw ejector	1.20	
670.0077	Flat thrust piece	0.03	
670.0078	Mandrel thruster	0.03	

Clamp screw ejector set

- For loosening seized clamping screws (M10) on 4-link axles
- For right and left wishbone clamping screws
 For aluminium and steel four link axles

- Release force up to max. 12 t
 Universally applicable hydraulic spindle (mounting thread) 1.1/2"x16 start)
- · Fine adjustment for optimum efficiency
- In durable plastic storage case

Application range: Audi A4, A6, Volkswagen Passat from 97, identical group vehicles





		A mm	kg	
670.0075	4 pcs	65 - 125	4.15	

consists of

		kg	
670.0074	Clamp screw ejector	1.20	
670.0077	Flat thrust piece	0.03	
670.0078	Mandrel thruster	0.03	
670.0079	Spindle M20x1,5 incl. nuts and rings	0.27	

Four link drift set

- For removing the clamp screws in the four-wheel front axle on VAG vehicles
- · Saves a lot of time
- Warming is no longer necessary, therefore preventing damage to the aluminium axle body
- For use with pneumatic chisel hammers on the market with a 10 mm attachment
- Special steel





			kg	
700.5635	3 pcs	Four link drift set	4.60	

consists of:

		g	
700.5635-01	Release mandrel pneumatic chisel	100	
700.5635-02	Ejector, short	40	
700.5635-03	Guide sleeve	40	

Reaming set for clamping screw on 4 link axles

- For exact centre drilling of the M10 clamping screw · Without upsetting of the thread end, e.g. such as when
- pressing out

 Removal without damage to the axle body

 Exact centering thanks to screw-on, hardened drilling gauges
- · Also suitable for new alloy screw type

Application range: Volkswagen / Audi and identical group



consists of:

		9	
700.5641	Drilling gauge for Ø 4.5 mm	140	
700.5642	Drilling gauge for Ø 7.3 mm	140	
700.5643	Special drill HSS-E TIN Ø 4.5 mm	10	
700.5644	Special drill HSS-E TIN Ø 7.3 mm	30	
700.5645	Pressure mandrel 9.8 x 63 mm	20	

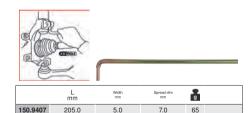
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SPLAY TOOLS

Flange spreader for the spring foot mounting

700.5640 5 pcs Reaming set for clamping screw on 4 link axles

- · Ideal for time-saving and damage-free splaying of the axle joint clamp boreholes or ball joint attachments
 • Makes the assembly and disassembly easier
- · For almost all common vehicle types
- •90° angled •Continuous hardened
- Matt chrome Special steel
- Application range: Ford, VAG, PSA, Japanese vehicles, etc.



Flange splayed bit socket set for the spring foot

- · Ideal for time-saving and damage-free splaying of the axle
- joint clamp boreholes or ball joint attachments
 Makes the assembly and disassembly easier
- For almost all common vehicle types
- Continuous hardened
- Matt chrome
- Special steel

Application range: BMW, Ford, VAG, PSA, Japanese vehicles, etc.







		g	
150.9491	1/2" flange splay bit socket, 5.0 x 7.0 mm	60	
150.9492	1/2" flange splay bit socket, 5.5 x 8.2 mm	60	

Ball joint spliter set

- For the exact centred bores of the clamp screws without compressing the thread end, e.g. when removing •No damage to the axle body when removing
- Exact centring thanks to unscrewable, hardened bore jig
- · Also suitable for new aluminium screw types

Application range: Volkswagen/Audi and similar vehicles in the VW group



			g	
700.5650	11 pcs	Ball joint spliter set	750	

consists of:

	Х		g	
700.5651	1	Basic unit for clamp bore holes splay tool, short	100	
700.5652	1	Guide bolt set, 2 part, 8 x 10 mm	100	
700.5653	1	Guide bolt set, 2 part, 10 x 12 mm	100	
700.5654	1	Splay wedge black, 5 mm	100	
700.5655	1	Splay wedge silver, 8 mm	100	
700.5656	1	Internal hexagon wrench, 3 mm	100	
700.5658	1	Spindle to 700.5650	50	
700.5659	2	Arm to 700.5650	100	

MASTER clamp bore hole splay tool set

- · An additional bridge allows for the use of two wedges at the same time
- · Especially for Audi and Volkswagen 4 wheel steering axle · Ideal for splaying the axle joint clamp boreholes, or ball joint attachments
- It is necessary to remove the secured spring absorber unit from the axle joint clamp boreholes
- · Makes the assembly and disassembly easier
- · Damage to the axle joint housing (cast or aluminium) is avoided
- Universal usage due to 2 pairs of different splay clamps and securing bolts
- Without compressing the thread ends, e.g. when pressing
- together Optimal adjustment, therefore slips are almost impossible
- · Exact centring due to the screw-on and toughened bore jigs
- •External drive hexagonal socket 13.0 mm
- ·Special steel

Application range: Audi, BMW, Ford, Peugeot, Seat, Volkswagen, etc.



			g	
700.5660	15 pcs	MASTER clamp bore hole splay tool set	855	

consists of

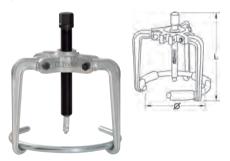
	Х		g	
700.5651	1	Basic unit for clamp bore holes splay tool, short	100	
700.5661	1	Basic unit for clamp bore hole splay tool. long	196	
700.5652	1	Guide bolt set, 2 part, 8 x 10 mm	100	
700.5653	1	Guide bolt set, 2 part, 10 x 12 mm	100	
700.5654	2	Splay wedge black, 5 mm	100	
700.5655	2	Splay wedge silver, 8 mm	100	
700.5656	1	Internal hexagon wrench, 3 mm	100	
700.5658	2	Spindle to 700.5650	50	
700.5659	2	Arm to 700.5650	100	



STEERING WHEEL PULLER

Universal steering wheel puller 3 arm

- For steering wheels with three or four spokes
- Tie rings with rubber sleeve for protection on the steering
- · Special steel



	Ø	L	max t		mm	kg	
670.0191	160	120	4	17	M14x1,5 x 130	1.90	

Universal steering wheel puller 2 arm for passenger cars

- Short and long hooks as well as pressure piece for spindle Extremely robust spindle with inductively hardened Thread
- ·Special steel



	A mm	B mm	max t	mm	mm	D	E	F	G	g	
670.0201	90	135	2,5	M14x1,5 x 130	17	5	3,5	11	7,5	900	

Steering wheel distance sleeve remover for VAG

- For removing the distance sleeve on the steering spindle
- when changing ignition switch

 Shearing action increases the pressing power when removing
- · Clamp holds hooks firmly together
- Prevents slippage
- Extremely robust spindle with inductively hardened thread
- · Special steel

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



Steering wheel distance sleeve puller for Volkswagen

- · Suitable for quick, clean and damage-free removal of the adapter sleeve on the steering arm

 • External drive hexagonal socket 17.0 mm
- Extremely robust spindle with inductively hardened thread
- · Special steel

Application range: Volkswagen Golf 2, Golf 3, Golf 4, Jetta, Passat > 1988



	Length mm	g	
450.0303	180.0	720	

Steering wheel distance sleeve mandrel

- Suitable in order to strike the adapter sleeve damage-free on the steering column
- Brass



	Length mm	Ø mm	9	
450.0304	150.0	30,0	720	

STEERING WHEEL INSTALLATION BALANCE

Steering readout scale

- For fast and accurate alignment of the steering wheel during the wheel alignment
- · For optimal use in the assembly and disassembly of steering wheels
- · Large clamping range
- · Ideally suitable for passenger cars, vans and trucks





	Operation range mm	L mm	g	
515.3183	270-350	370.0	205	

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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
(S)
980.1085 - 980.1090
can be distributed
The second secon

		1760 ocs	700.2355 22 pcs	1700 ocs	700.1735 12 pcs
		700.1 20 F	700.2 22 p	700.1 36 p	700.1 12 p
item	Description	'			-
	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 700.1708	Stepped plates,#2	1 x	1 x	1 x	
700.1708	Stepped plates,#3 Stepped plates,#4	1 x	1 x	1 x	
-100/11/00		^		1 ^	
700.1710	Spindles Spindle, M10		1 x	1 x	1 x
700.1710	Spindles, M12	1 x	1 x	1 x	1 x
700.1712	Spindle, M14	1 7	1 /	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 700.2365	Step pressure sleeve, internal Ø 28 mm, external Ø 38 mm		1 x		
700.2366	Step pressure sleeve, internal Ø 30 mm, external Ø 40 mm Step pressure sleeve, internal Ø 32 mm, external Ø 42 mm		1 x		
100.2000			1 /		
700.1714	Pressure sleeve Pull sleeve, internal Ø 34mm, external Ø 44mm	1 v		1 x	
700.1714	Pressure sleeve, internal Ø 36 mm, external Ø 46 mm	1 x		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 700.1725	Pressure sleeve, internal Ø 54 mm, external Ø 64 mm Pressure sleeve, internal Ø 56 mm, external Ø 66 mm			1 x	
700.1725	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 bearina, simmerrinas, 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
- 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:

		9	
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	170	
700.1711	Spindles, M12	253	
700.1800-	Check nut M 10	350	
10 700.1800-	Check nut M 12	350	
11 700.1800- 17 700.1800-	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:

		9	
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	253	
700.1713	Spindles, M16	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

		9
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	170
700.1711	Spindle, M12	253
700.1712		350
700.1713	Spindle, M16	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 Pressure sleeve, Internal Ø: 46 mm, External	320
700.1720	Ø: 56 mm Pressure sleeve, Internal Ø: 46 mm, External Ø: 58 mm Pressure sleeve, Internal Ø: 48 mm, External	330
700.1721	Ø: 58 mm Pressure sleeve, Internal Ø: 50 mm, External	340
700.1722	Ø: 60 mm Pressure sleeve, Internal Ø: 52 mm, External	350
700.1723	Ø: 62 mm Pressure sleeve, Internal Ø: 54 mm, External	370
700.1724	Ø: 64 mm Pressure sleeve, Internal Ø: 56 mm, External	380
700.1725	Ø: 66 mm Pressure sleeve, Internal Ø: 58 mm, External	390
700.1726	Ø: 68 mm Pressure sleeve, Internal Ø: 60 mm, External	420
700.1727	Ø: 70 mm Pressure sleeve, Internal Ø: 62 mm, External	430
700.1728	Ø: 72 mm Pressure sleeve, Internal Ø: 64 mm, External	440
700.1730	Ø: 74 mm Pressure sleeve, Internal Ø: 66 mm, External	460
700.1731	Ø: 76 mm 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, agricul-
- tural 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
- Pressure bearing protects against increased friction during the process
- In durable plastic storage case

Caution: The spindles must be greased before first 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

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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 M12x1.75	200	
700.1553	Spindle M14x2.0	350	
700.1554	Spindle M16x2.0	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	

accesso	ries:		
		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	

Adapter for Sauer, Müller, KS PP 1

- For use of the hydraulic cylinder on Sauer, Müller, KS PP 1 with KS Tools tool
- Adapter 1.1/2" to 2.1/4"-16 UN (Sauer, Müller, KS PP 1)
- ·Special steel



		9	
440.0034	Adapter for Sauer, Müller, KS PP 1	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
- For a controlled and safe removal
 The hydraulics are set into motion via a hydraulic pump (3/8"
- Extremely robust spindle with hardened thread
- •Special steel



		Totallength mm	extension mm	Width	max.	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



		Screw extension mm	Total length mm			mm	kg	
700.1400-1	AG 1.1/2"-12 UNF	92,0	260.0	10	15.0	17	1.23	

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

12 t Capacity: 3/8" NPT IG Connection thread:

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 pistonSuitable 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	

		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



Connection thread:

Hand pump: 700 bar high pressure pump 410 x 150 x 135

Dimensions:

		kg	
700.1792	Hydraulic hand pump	5.50	

Hydraulics tube, 2 m including connection

· Ideally suited for commercial vehicles



Technical data:

Connection thread: Length:

3/8" NPT AG x 3/8" NPT AG 2000 mm

700.1793	Hydraulics tube, 2 m including connection	1.10	

Manometer

- •Max. 12 bar
- 1/2" Internal and external threaded connector
- Special steel



	D mm	H mm	B mm	9	
700.1790-2	80.0	50.0	25.0	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			
		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 cylindersSafety 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
- 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 recep-
- 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	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

700.1755

5 pcs

- · Valuable supplement to the pressure set and hub sheath set
- 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



245.0 95.0 380.0 180.0 11.00

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	

BALL JOINT SYSTEM PP I

Pressure sleeve set Volkswagen and Mercedes

- For the assembly and disassembly of the ball joint (ball pins) Ø 45 mm
- · 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: Mercedes Sprinter from 1996-2007, Volkswagen LT and Crafter from 1996-2007



700.2305 4 pcs Pressure sleeve set Volkswagen and 5.70				kg	
iviercedes	700.2305	4 pcs	Pressure sleeve set Volkswagen and Mercedes	5.70	

consists of:

		kg
700.2306	Pressure sleeve for installation	1.54
700.2307	Pressure sleeve for removal, Ø 60 mm	1.64
700.2308	Pressure sleeve for removal, Ø 62 mm	1.40
700.2309	Press sleeve for installation and removal	0.42

ccessories

		kg	
700.2310	Pressure sleeve for removal on models after 2007	1.46	

Pressure sleeve set for Mercedes ball joint

- · Quick and problem-free assembly and disassembly of the ball joint
- For use alongside C frame 700.1780
- · Special steel

Application range: Mercedes W211 and W220



			kg	
700.1620	4 pcs	Pressure sleeve set for Mercedes ball joint	1.42	

consists of

CONSISTS OF						
		Length mm	g			
700.1621	Pressure sleeve, 57 mm	45.0	400			
700.1622	Pressure sleeve, 51 mm	75.0	390			
700.1623	Pressure sleeve, 60 mm	90.0	470			
700.1624	Pressure sleeve, 33 mm	41.0	150			

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Pressure sleeve set for Mercedes torsion bar joint

- · Quick and problem-free assembly and disassembly of the torsion bar joint
- •For use alongside C frame 700.1755
- ·Special steel

Application range: Mercedes W211 and W220



			g	
700.1625	3 pcs	Pressure sleeve set for Mercedes torsion bar joint	900	

consists of:

		Length mm	g	
700.1626	Pressure sleeve, 34 mm	86.0	300	
700.1627	Pressure sleeve, 48 mm	78.5	420	
700.1628	Pressure sleeve, 37 mm	39.0	180	

Pressure sleeve for Mercedes

- For the assembly and disassembly of the external ball joint (ball pins)
- •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: Mercedes W124, W129, W201 on the external ball joint (ball pins)







			kg	
700.2300	3 pcs	Pressure sleeve for Mercedes	1.43	

consists of:

		g	
700.2301	Pressure sleeve 52 x 52 mm	770	
700.2302	Pressure sleeve 40 x 48 mm	390	
700.2303	Pressure sleeve 70 x 20 mm	270	

Press sleeve set for Renault Master and Opel Movano

- For the assembly and disassembly of the ball joint (ball pins) on the upper front-axle
- · 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: Renault Master and Opel Movano ball joint (ball pins) on the upper front axle











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		g	
700.2276	Pressure sleeve, 42 x 60 mm	460	
700.2277	Pressure sleeve straight, 71 x 60 mm	690	
700.2278	Pressure sleeve with recess, 71 x 60 mm	880	
700.2279	Pressure sleeve slopes, 79.5 mm	1120	

Press sleeve set for Renault Master and Opel Movano

- For the assembly and disassembly of the ball joint (ball pins) on the lower front-axle
- · 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: Renault Master and Opel Movano ball joint (ball pins) on the lower front axle



			kg	
700.2270	4 pcs	Press sleeve set for Renault Master and Opel Movano	2.33	

consists of:

		g	
700.2271	Pressure sleeve with recess, 71 x 50 mm	620	
700.2272	Pressure sleeve, 57.5 x 50 mm	710	
700.2273	Pressure sleeve, 52 x 35 mm	480	
700.2274	Pressure sleeve without recess, 71 x 50 mm	520	

Pressure sleeve set for Volkswagen T4

- For the assembly and disassembly of the ball joint (ball pins) on the upper wishbones
 • 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: Volkswagen T4 from 1992 onwards, ball joint (ball pin) on upper wishbones









			kg	
700.2290	4 pcs	Pressure sleeve set for Volkswagen T4	2.32	

consists of:

		g	
700.2291	Pressure sleeve 51 x 78 mm	653	
700.2292	Pressure sleeve 73 x 31 mm	520	
700.2293	Pressure sleeve 39 x 78 mm	650	
700.2294	Pressure sleeve 73 x 43 mm	500	



HYDRAULIC SUPPORT 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



Technical data cylinder

Capacity:

Connection thread: Cejn quick coupling Piston: industrial forged execution

M22 piston-inner thread: 2.1/4" piston-outer thread: 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	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
- · Special steel



Technical data cylinder

Capacity: Connection thread: Cejn quick coupling

Piston: industrial forged execution M22 piston-inner thread:

2.1/4" piston-outer thread: Stroke: 67.0 mm

			kg	
440.000	5 10 pcs	Pressure and pull hydraulic cylinder set	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	
440.0009	(CEJN-) Nipple hydraulic	10	
440.0011	Impact body, M22 x 2.5 mm	220	
440.0012	Adjustable pressure sleeve, M24, L = 132 mm	320	

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: Cejn quick coupling Connection thread: Piston: industrial forged execution piston-inner thread: M22

piston-outer thread: 2.1/4" 70.0 mm Stroke:

			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	10	

Pressure and pull hydraulic cylinder set

- •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
- ·With automatic piston return
- · Ideally used with transporters and commercial vehicles
- ·Special steel



Technical data cylinder

32 t Capacity: Connection thread: Cein quick coupling Piston: industrial forged execution

piston-inner thread: M24 2.1/4" piston-outer thread: 113.0 mm Stroke:

			kg	
440.0025	6 pcs	Pressure and pull hydraulic cylinder set	9.35	

consists of:

		9	
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	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

Connection thread: Cejn quick coupling Piston: industrial forged execution

piston-inner thread: M24 2.1/4" piston-outer thread: 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	10	

Pull rod, collar nut, adapter set

- Universal usage
- Extremely robust spindle with inductive hardened thread
- 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 first use!



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

consists of:

		9	
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: 0,751 Operating pressure: 700 bar Tube length: 2200 mm

			kg	
440.0060	4 pcs	Hydraulic foot pump set	7.83	

consists of:

440.0057 Hydi	raulic hose, 2200 mm	900	
440.0058 Cejn	quick coupling	200	
440.0061 Hydi	raulic 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 I Operating pressure: 700 bar Tube length: 2200 mm

		kg	
3 pcs	Pneumatic hydraulic pump set	6.32	
	3 pcs	3 pcs Pneumatic hydraulic pump set	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	

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- •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 adapter

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



		kg	
440.0038	Klann adapter	1.08	

Klann adapter

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



		g	
440.0036	Klann adapter	200	

Klann adapter

- For using the KS tools hydraulic cylinder with the Klann
- special tool (connection 2.3/4")

 Adapter 2.3/4"-16 UNS (Klann thread) to 2.1/2"
- ·Special steel



		g	
440.0409	Klann adapter	760	

Adapter for Sauer, Müller, KS PP 1

- For use of the hydraulic cylinder on Sauer, Müller, KS PP 1
- with KS Tools tool Adapter 1.1/2" to 2.1/4"-16 UN (Sauer, Müller, KS PP 1)
- · Special steel



		•	
		g	
440.0034	Adapter for Sauer, Müller, KS PP 1	230	

- For using the Paschke hydraulic cylinder with KS Tools tool Adapter M68 x 2 mm (Paschke thread) to 1.1/2"
- Special steel



		g	
440.0407	Paschke adapter	110	

Paschke adapter

- For using the Paschke hydraulic cylinder with KS Tools tool
- Adapter M68 x 2 mm (Paschke thread) to 1.1/2"-11G
- Special steel



		g	
440.0408	Paschke adapter	330	

Adapter for 32 t hydraulic cylinder

- For use with hydraulic cylinder 16 t (440.0005) and 22 t (440.0010) to the 2.1/2" thread from 32 t hydraulic cylinder (440.0025)
- Adapter 1.1/2" to 2.1/2"-11 UN



		9	
440.0037	Adapter for 32 t hydraulic cylinder	570	

PRESS TOOL SYSTEM PP II

Press tool

- · Forged press tool for removing the ball joints and stabiliser ball pins
- Maximum force 16 t
- · Ideal for use with a hydraulic cylinder
- Optimally used with ball joint sets 440.0230 and 440.0240 as well as stabiliser ball pin set 440.0235
- Secure and easy to use
- Minimum work time
- · Special steel

Recommended hydraulic cylinder: 8.5 t (440.0020), 14 t (440.0015), 16 t (440.0005), 22 t (440.0010) Application range: Mercedes, Ford



		kg	
440.0190	Press tool	5.78	

PRESS STAND SYSTEM PP II

Universal press stand

- · With open stand plate and adapter ring set
- Ideal for replacing ball joints and rear-axle bushesCan 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:

	Х		g	
440.0176	1	Plate with thread	2040	
440.0178	2	Support leg	440	
440.0179	4	Screw M16 x 40 mm	80	
440.0185	1	Adapter plate	340	
440.0204	1	Plate with open side	2040	

BALL JOINT SYSTEM PP II

Pressure sleeve set BMW E30/E36, internal

- For the assembly and disassembly of the internal ball joint
- For use with the universal press stand (440.0180)
- · Can be used directly on the vehicle
- · Saves a lot of time
- Special steel

Application range: Internal ball joint for BMW E30 and E36







			kg	
440.0420	3 pcs	Pressure sleeve set BMW E30/ E36, internal	1.55	

		g	
440.0184	Pressure sleeve	500	
440.0186	Pressure sleeve	430	
440.0187	Pressure sleeve	620	

Pressure sleeve set BMW E30/E36, external

- •For the assembly and disassembly of the external ball joint
- For use with the universal press stand (440.0180)
- ·Can be used directly on the vehicle
- ·Saves a lot of time
- Special steel

Application range: External ball joint for BMW E30 and E36



			kg	
440.0425	3 pcs	Pressure sleeve set BMW E30/ E36, external	1.52	

consists of:

		9	
440.0181	Pressure sleeve	860	
440.0182	Pressure sleeve	340	
440.0183	Pressure sleeve	320	

Pressure sleeve set, Hyundai

- For the assembly and disassembly of the ball joint (ball pins)
- For use with the universal press stand (440.0180) Can be used directly on the vehicle
- ·Saves a lot of time
- ·Special steel

Application range: Ball joint Hyundai Trajet, Santa Fe



			kg	
440.0470	3 pcs	Pressure sleeve set, Hyundai	1.70	

consists of:

		g	
440.0194	Pressure sleeve	720	
440.0197	Pressure sleeve	560	
440.0202	Pressure sleeve	420	

Ball joint set, Ford

- Ideal for the assembly and disassembly of ball joints together with press tool 440.0190
- ·Secure and easy to use
- Robust design
- •Special steel

Application range: Ford Transit



			kg	
440.0240	4 pcs	Ball joint set, Ford	1.51	

COHSISIS	ui.		
		g	
440.0241	Pressure sleeve	540	
440.0242	Assembly/disassembly cover	620	
440.0243	Assembly sleeve	210	
440.0244	Disassembly sleeve	140	

Stabiliser ball joint set, Mercedes

- Ideal for the assembly and disassembly of stabiliser ball joints together with press tool 440.0190
 • Removal of shock absorbers not necessary
- ·Secure and easy to use
- Minimum work time
- ·Special steel

Application range: Mercedes E-class type 211, S-class type



440.0235 2 pcs Stabiliser ball joint set, 630				9	
Mercedes	440.0235	2 pcs	Stabiliser ball joint set, Mercedes	630	

consists of:

		g	
440.0236	Pressure sleeve	320	
440.0237	Pressure sleeve	310	

Ball joint disassembly sleeve, Mercedes

- Expansion sleeve for ball joint set 440.0230
- · Ideal for the assembly and disassembly of ball joints together with press tool 440.0190
- Secure and easy to useRobust design
- · Special steel

Application range: Mercedes ML 163



		9	
440.0238	Ball joint disassembly sleeve, Mercedes	300	

Ball joint set, Mercedes

- Ideal for the assembly and disassembly of ball joints together with press tool 440.0190
- Secure and easy to use
- Robust design
- With ball joint disassembly sleeve (440.0238) also suitable for Mercedes ML 163

Application range: Mercedes E-class type 211/219, S-class type 220, SL-class type 230





440.0230 4 pcs Ball joint set, Mercedes

CONSISTS OF:					
		g			
440.0231	Pressure sleeve	320			
440.0232	Assembly sleeve	120			
440.0233	Disassembly ring	300			
440.0012	Adjustable pressure sleeve, M24, L = 132 mm	320			

- For the assembly and disassembly of the ball joint (ball pins)
- For use with the universal press stand (440.0180) Can be used directly on the vehicle
- · Saves a lot of time
- · Special steel

Application range: Ball joint Mercedes Sprinter, ball joint on Volkswagen LT 35





			kg	
440.0435	2 pcs	Pressure sleeve set Mercedes Sprinter and Volkswagen LT 35	1.04	

consists of:

		g	
440.0191	Pressure sleeve	520	
440.0192	Pressure sleeve	520	

Pressure sleeve set Mercedes Sprinter > 2007 and swagen Crafter

- For the assembly and disassembly of the ball joint (ball pins)
- For use with the universal press stand (440.0180)
- · Can be used directly on the vehicle
- · Saves a lot of time
- Special steel

Application range: Ball joint Mercedes Sprinter > 2007, ball joint on Volkswagen Crafter



			kg	
440.0440	3 pcs	Pressure sleeve set Mercedes Sprinter > 2007 and Volkswagen Crafter	1.81	

consists of:

		g	
440.0198	Pressure sleeve	760	
440.0199	Pressure sleeve	520	
440.0201	Pressure sleeve	530	

Pressure sleeve set Mercedes W 124

- For the assembly and disassembly of the ball joint (ball pins)
- For use with the universal press stand (440.0180)
- · Can be used directly on the vehicle Saves a lot of time
- Special steel

Application range: Ball joint on Mercedes W 124







			kg	
440.0430	3 pcs	Pressure sleeve set Mercedes W 124	1.71	

consists of:

		g	
440.0184	Pressure sleeve	500	
440.0186	Pressure sleeve	430	
440.0189	Pressure sleeve	780	

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Pressure sleeve set Renault/Nissan/Opel

- For the assembly and disassembly of the upper and lower ball
- joint (ball pins)
 For use with the universal press stand (440.0180)
- · Can be used directly on the vehicle
- ·Saves a lot of time
- ·Special steel

Application range: Upper and lower ball joint Renault Master, Nissan Interstar, Opel Movano



			kg	
440.0455	4 pcs	Pressure sleeve set Renault/Nis- san/Opel	2.66	

consists of:

		9	
440.0188	Pressure sleeve	600	
440.0193	Pressure sleeve	820	
440.0194	Pressure sleeve	720	
440.0196	Pressure sleeve	520	

Pressure sleeve set Renault

- For the assembly and disassembly of the ball joint (ball pins)
- For use with the universal press stand (440.0180)
- •Can be used directly on the vehicle
- ·Saves a lot of time
- ·Special steel

Application range: Ball joint Renault Laguna 1, Megane 2 and Scenic 2



			kg	
440.0450	3 pcs	Pressure sleeve set Renault	1.48	

consists of:

		9	
440.0184	Pressure sleeve	500	
440.0202	Pressure sleeve	420	
440.0203	Pressure sleeve	560	

Pressure sleeve set Volkswagen T4

- For the assembly and disassembly of the ball joint (ball pins)
- For use with the universal press stand (440.0180)
- •Can be used directly on the vehicle
- ·Saves a lot of time
- ·Special steel

Application range: Ball joint on Volkswagen T4



			kg	
440.0445	2 pcs	Pressure sleeve set Volkswagen T4	1.34	

		9	
440.0191	Pressure sleeve	520	
440.0193	Pressure sleeve	820	

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:

		9
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 pressOptimal for bushes, bearings and ball joints
- Special steel



			kg	
440.0325	12 pcs	Universal press tool expansion set	4.42	

		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	

consists of

		g	
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	

BALL JOINT SYSTEM PP III

Carrier joint tool set

- For the dismantling and assembly of upper carrier joints without removing the wishbone
- Hardened spindle with ball lock for pressure sleeves
 3 pressure sleeves adaptor for spindle
- 2 forks for installation with locking mechanism for basic unit Colour coding in dismantling and/or assembly tools
- In durable plastic storage case

Application: T4 bus / Multivan / California / pickup etc.



			kg	
700.1640	6 pcs	Carrier joint tool set	3.82	

consists of:

		g	
700.1641	Basic unit with window H=135mm	1930	
700.1642	Spindle TR24, SW24 L=110mm	350	
700.1643	Thrust sleeve installation, gold, Ø52xH41mm	260	
700.1644	Thrust sleeve removal no.1, black, Ø40x- H30mm	185	
700.1645	Thrust sleeve removal no.2, black, Ø40xH30mm	195	
700.1646	Fork installation, black, 55.5mm	102	
700.1647	Fork installation, gold, 51mm	122	
700.1648	Retaining ring for spindle	2	

WRENCHES FOR BALL JOINT ASSEMBLY

Ball joint pin wrench for Mercedes M-class

- For releasing and securing the securing screws on the ball
- joint
 •Perfectly sized for damage-free assembly
 •Internal square drive to DIN 3120/ISO 1174 with ball recep-
- ·Special steel

Application range: Mercedes M-class W163





	Outer Ø mm	Inner Ø mm	Stud width mm	g	
700.1660	63.0	53.0	7.5	280	

Ball joint pin wrench for Citroën and Peugeot

- For releasing and securing the screwed in ball joint
- Perfectly sized for damage-free assembly
 Internal square drive to DIN 3120/ISO 1174 with ball recep-
- ·Special steel

Application range: Citroën BX from 09/1982 to 1994, Citroën C5, Citroën Xantia, Peugeot 305 from 07/1982 to 1990, Peugeot 405 >06/1987, Peugeot 406, Peugeot 605, Peugeot 607



Ball joint socket for Citroën and Peugeot

52.0

•12-point

700.1661

• For releasing and securing the screwed in ball joint

42.5

- Perfectly sized for damage-free assembly
- •Internal square drive to DIN 3120/ISO 1174 with ball reception

5.5

500

·Special steel

Application range: Peugeot 307, Peugeot 308, Peugeot 3008, Peugeot 5008, Peugeot Partner, Peugeot RCZ, Citroën Berlingo, Citroën C4



	mm	D1 mm	D2 mm	L mm	T mm	g
700.1662	41	54.0	43.0	90.0	23.0	700

Ball joint socket for Renault Master and Opel Movano

- · For releasing and securing the screwed in ball joint Perfectly sized for damage-free assembly
- Internal square drive to DIN 3120/ISO 1174 with ball reception
- ·Special steel

Application range: Renault Master and Opel Movano from 2010 onwards

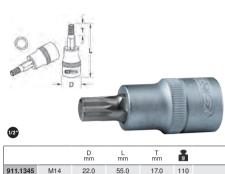


	mm	D1 mm	D2 mm	L mm	T mm	kg	
700.1663	46	62.0	43.0	100.0	25.0	1.00	

Bit socket for spline (XZN®) screws

- Necessary for the removal of the lower ball joint
- Spline (XZN®)
- Internal square drive to DIN 3120/ISO 1174 with ball recep-
- With press fitted nickel-plated insert bit
- For manual operation
- Matt finish
- · Chrome vanadium

Application range: Volkswagen T4 and Volkswagen T5



Special VAG ball joint socket

- Ideally suited to assembly and disassembly of ball joints
- Special profile
- Internal square in accordance with DIN 3120/ISO 1174 or outer hexagonal drive 27.00 mm
 • Extremely robust design
- ·Special steel

Application range: Audi A4, A5, A6, A7 > 2005, Volkswagen



	mm	Total length mm	9	
150.1712	27.0	37.0	135	

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
- · Efficient, gentle loosening of screw fittings 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	

Special Vibro chisel set

- For loosening seized screw joints and loosening components
- Gentle peeling and driving
- · Vibration is transmitted directly to the screw connections
- Impact mandrel attachment as ingenious aid to any removal operation
 • For hexagonal and round 10 mm machine mountings
- · Including pressure plate adapter for driving out bearings, sleeves, bushings

Caution: Use only in conjunction with a pneumatic hammer







			9	
515.3885	4 pcs	Special Vibro chisel set	774	

consists of:

		g	
515.3886	Pneumatic chisel track rod loosener,110mm	138	
515.3887	Pneumatic chisel hammer,110mm	148	
515.3888	Pneumatic chisel loosening adapter,130mm	159	
515.3889	Pneumatic chisel loosening mandrel,100x25x12mm	190	

Vibro Power hammer chisel accessories

- Supplements Vibro-Power System 515.3880
- Can be used universally for bodywork and chassis repairs
- Expanded areas of use
- · Utilises the vibration and impact impulse of the Vibro-power pneumatic hammer

 Robust, made from one piece of forged chisel

Application: For removing ball bearing joints and bolts







		9	
515.3961	Vibro Power punch Ø6.5mm	95	
515.3967	Vibro Power fork separator 20mm	295	
515.3968	Vibro Power fork separator 25mm	375	
515.3969	Vibro Power fork separator 32mm	395	

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Impact tie rod tool

- · Vibration supported release of tracking rods, contoured
- screws or screws in the axle area, etc.

 Adjustable in connection with a pneumatic chisel hammer
- Thanks to the special vibrating mandrel, an impact impulse is given to the screws to be released
- · which loosens the rust and aids the release process
- For 10 mm machine attachment
- ·Special steel

Caution: May only be used alongside a pneumatic chisel



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



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

SEPARATION AND ASSEMBLY FORK

Separation and assembly fork set

- •With interchangeable fork heads
- •With a manual handle grip (200 mm) for use with hammer
- Pneumatic chisel adapter (10 mm) for use with pneumatic chisel hammers on the market
- For the quick release of tracking and push rod bodies, steering arm levers and other steering parts
- •Ideally suited to narrow spaces
- ·Special steel
- In durable plastic storage case





			kg	
670.0090	5 pcs	Separation and assembly fork set	1.90	

consists of:

		9	
670.0085	Handle grip, 200 mm	420	
670.0086	Pneumatic chisel adapter	160	
670.0087	Forked head 17.5 x 70 mm	290	
670.0088	Forked head 23.5 x 70 mm	300	
670.0089	Forked head 28.5 x 70 mm	370	

Separating and assembly fork

- For quick loosening of track and steering rod ends steering arms and additional controlling parts
- · Ideal for confined spaces
- Special steel



	A mm	L mm	kg	
670.0091	18	330.0	0.90	
670.0092	23	330.0	0.90	
670.0093	31	330.0	1.10	
670.0094	35	330.0	1.30	
670.0095	45	330.0	1.50	

TRACK ROD TOOLS

Eccentric clamping and turning device

- · Universally applicable one sided opening
- To remove and turning the tie rod joints (steering and wheel end)
- Due to the knurled eccentric cam it allows from optimal grip even at the joints without drive (round)
- Square drive 1/2"
- · For use on the workbench or directly on the vehicle



	⊕ Ø mm	Ø mm	9	
150.1635	1-50	1-42	300	

Eccentric clamping and turning device

- For the removal and rotation of the round or hexagonal track rod joints (steering and wheel end)
- Due to the knurled eccentric cam it allows from optimal grip even at the joints without drive (round) • 1/2" drive
- For use on the workbench or directly on the vehicle
- Additional stopper prevents slipping during the splitting
- Special steel



Eccentric clamping and turning device

- For the removal and rotation of the round or hexagonal track
- rod joints (steering and wheel end)

 Due to the knurled eccentric cam it allows from optimal grip even at the joints without drive (round)
- 1/2" drive • For use on the workbench or directly on the vehicle
- · Additional stopper prevents slipping during the splitting process
- Special steel







	ø mm	Ø mm	9	
150.1640	23-45	31-35	300	

Special axial joint wrench set

- For the disassembly of axle joints on the track rods
- •3 special parts from 30-45 mm
- · Usable on square, hexagonal, octagonal and round external profiles
- ·Gentle removal without damaging the external joint surfaces
- Frictional connection · For narrow spaces
- Special steel

1/2"

In durable plastic storage case





			kg	
150.1125	4 pcs	Special axial joint wrench set	4.72	

COHSISTS	01.		
		g	
150.1126	Drive special wrench, 200 mm	1160	
150.1127	Special piece, 30-35 mm	750	
150.1128	Special piece, 35-40 mm	760	
150.1129	Special piece, 40-45 mm	1060	

Special axial joint wrench

- •For removal and installation of axial joints on track rods
- · For use on square, hexagonal, octagonal and round outside
- •Gentle removal and installation without damaging the joint outer surface
- Positive connection
- For working in confined spaces Special steel







	mm	Ø mm	L mm	kg	
150.1600	30	35 - 45	420.0	1.82	

Adjustable pliers for push rods

- For releasing and adjusting secure or hard-to-reach push rods
- with a diameter of 14-23 mm
 Special flat shape on the clamp jaw to prevent damage to the rush rod
 • Optimal force distribution
- ·Special steel



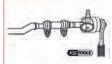


	Ø mm	Length mm	9	
150.1602	14-23	93.0	1000	

Tie rod end socket

- For simple installation and removal of push rod bodies
- Universal usage
- •Internal square drive to DIN 3120/ISO 1174
- ·Special steel







	Length mm	U opening mm	Inner Ø mm	9	
150.1627	57.0	35x19	23.8	490	

Insertable open-ended wrench

- For tightening and loosening pipe connections
- For manual operation
 Internal square drive to DIN 3120/ISO 1174
- ·Special steel



	mm	9	
913.1941	18	140	
913.1942	22	150	
913.1943	24	160	
913.1944	27	170	
913.1945	32	180	
913.1946	34	220	
913.1947	36	230	
913.1948	37	240	
913.1949	38	280	
913.1950	41	380	

Crows foot spanner

- •12-point
 •With 1/2" internal square
- For tightening and loosening pipe connections
- For manual operationSlim design
- For hard-to-reach areas Burnished
- · Special steel
- In durable plastic storage case

Application range: Commercial vehicles, construction vehicles, agricultural vehicles, town and forest vehicles, etc.







	mm	g	
913.1301	19	62	
913.1302	21	94	
913.1303	22	112	
913.1304	24	120	
913.1305	27	153	
913.1306	30	170	
913.1307	32	168	
913.1308	36	337	
913.1309	41	400	
913.1310	46	632	

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 finish
- Chrome vanadium



	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 finish
- · Chrome vanadium



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

One handed multi function spanner

- Multi-function wrench with ratchet function
- · For all screw work
- Adapts itself automatically to the screw size
- Self-clamping on flat pipes, bots, shafts, and unscrewed bodies of hexagonal screws
- No slips thanks to the coarse teeth
- Chrome vanadium



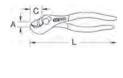


	mm	L mm	9	
114.0050	8-19	190.0	165	
114.0051	14-32	300.0	515	

Special pipe wrench

- •2-stage adjustment •PVC dipped handle
- · Ideal for round turned pipe fittings
- Polished surface
- Chrome vanadium







	A mm	L mm	C mm	9	
115.1361	0-16	178.0	23.0	180	

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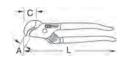
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Special pipe wrench

- 4 stage industrial adjustment
- PVC dipped handle
 Optimum power transfer
- •Grooved handle adjustment •Polished surface
- · Ideally suited for twisting both thrust and track rods
- ·Usably on axle joints and exhaust pipes
- Chrome vanadium



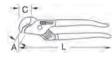


	A mm	L mm	g	
115.1362	0-30	242.0	470	

Special pipe wrench

- •6 stage industrial adjustment
- •PVC dipped handle
- Optimum power transfer
- Grooved handle adjustmentPolished surface
- Ideally suited for twisting both thrust and track rods
 Usably on axle joints and exhaust pipes
- ·Chrome vanadium





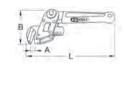


	A mm	L mm	C mm	kg	
115.1363	0-51	345.0	41.0	1.10	

Pipe wrench with adjustable head

- •Type "Stillson"
- Aluminium cast body
- •Upper jaw HRC 54-57
- Lower jaw HRC 52-55
 Stepless adjustment via milled nut
- •160° revolving handle •Aluminium handle







	А	B mm	L mm	9	
111.3550	1.1/2	97.0	250.0	650	

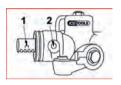
TRACKING ADJUSTMENT TOOLS



Locking screw to the gear rack centring for VAG

- Ideally suited to the correct gear rack centre positioning of the steering in order to also carry out the camber initial installation
 Insert screws after ensuring floor consistency of the steering with the housing boreholes
- Special steel

Application range: Audi A4, A6, Volkswagen Passat from 1997 onwards





		9	
700.1694	Locking screw to the gear rack centring for VAG	20	

Locking screw set for gear rack centring

- Ideally suited to the correct gear rack centre positioning of the steering in order to also carry out the camber initial installation
- · Insert screws after ensuring floor consistency of the steering with the housing boreholes
- ·Special steel

Application range: Mercedes W107, W114, W115, W116









			9	
700.1690	3 pcs	Locking screw set for gear rack centring	100	

consists of:

		g	
700.1691	Locking screw 1	33	
700.1692	Locking screw 2	33	
700.1693	Locking screw 3	33	

Push rod gauge set

- · Ideally suited to changing track rod heads
- No further measurement of the axle required
 Saves times and reduces costs
- · Special steel
- In durable plastic storage case







			kg	
700.1685	9 pcs	Push rod gauge set	2.80	

CONSISTS	JI.			
	Х		9	
700.1686	1	Device with guide bolts for joint head fixing	325	
700.1687	2	Clamp jaws for device	182	
700.1688	1	Joint head fixing, long, Ø 12 mm	280	
700.1689	1	Joint head fixing, short, Ø 12 mm	190	
700.1695	1	Joint head fixing, Ø 10 mm	170	
700.1696	1	Joint head fixing, Ø 17.5 mm	222	
700.1697	1	Adapter for device and joint head fixing	261	
700.1698	1	Depth gauge for four-wheel drive axles (VAG)	203	

VAG multi-link axle gauge auxiliary bridge set

- Ideally suited to front track centring
- Also suitable for installation
- Includes six adapter pairsCan also be used on lowered vehicles
- Robust designAluminium bridge
- Adapter made from special steel

Application range: Audi A4, A6, A8 and Volkswagen Passat as well as all VW group vehicles with multi-drive axles



			kg	
700.1630	13 pcs	VAG multi-link axle gauge auxiliary bridge set	29.10	

consists of:							
		kg					
700.1631	Axle gauge auxiliary bridge	24.20					
700.1632	Adapter set with thread, Audi A8, long, 2 pcs	1.35					
700.1633	Adapter set with thread, Audi A8, short, 2 pcs	0.22					
700.1634	Adapter set without thread, Audi A8, long, 2 pcs	0.75					
700.1635	Adapter set with thread, Audi A4, long, 2 pcs	1.02					
700.1636	Adapter set with thread, Audi A4, short, 2 pcs	0.82					
700.1637	Adapter set without thread, Audi A4, short, 2 pcs	0.49					

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 feetIn durable plastic storage case







	Total length mm	9	
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 Toledo, Volkswagen Golf, Jetta, etc.





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

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 (winas)
- •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	0.9420	135,0 - 200,0	1.21	

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 (F85 F86)



	Ø mm	Height mm	9	
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 bear-
- ing 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)





			9	
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	

HOSE CLAMP TOOL

ERGOTORQUE® socket screwdriver

- •6 point
- Flexible
- Limited torque Double spiral shaft
- Plastic protective coatingWith 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	

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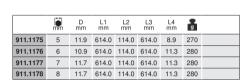
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ERGOTORQUEplus® socket screwdriver, extra long

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

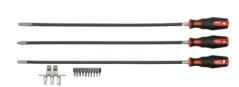




ERGOTORQUE® screwdriver set

- •Flexible blade with double spiral shaft
- Limited torquePlastic 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	ERGO	OTORQUE® screwdriver set	1.30	
1 x _		0	1/4"		
1 x _			1/4"		
1 x _	1 x 7 mm				
3 x	P	0	5 - 6 - 8 mm		
2 x		\ominus	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 flat 3 pinch ends
- Suitable for narrow spaces
- · Chrome molybdenum



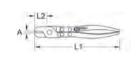




	A mm	C mm	L mm	9	
115.1057	0-30	45.0	200.0	180	

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



25.0

320



230.0

Hose clip pliers for earless hose bands

•With PVC dipped handle

115.1039

For working of earless clamps

0-60

- · Also suitable for thermoplastic axle boots · Uniform compressing of the ear piece
- No damage to the sleeve
- · With lever translation
- Nickel-plated finish
- Chrome molybdenum

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





	Ø	Length mm	g	
115.1210	100	248.0	330	

Hose clamp pliers, ear type

- ·With PVC dipped handle
- For the fitting 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 finish
- · Chrome molybdenum

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





L mm	g	
260.0	380	
	L mm 260.0	

lose clamp pliers

- · With PVC dipped handle
- With 3/8" drive for use with a torque wrench For the fitting 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	g	
115.1053	0-17	240.0	540	

Hose clamp pliers

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

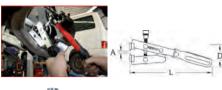




L mm		g	
115.1185	240.0	335	

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	g	
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





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	9	
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	8	
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 finish





	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 difficult to reach clamps
- · Special tool steel

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

Application range: Volkswagen, Audi, Mercedes Benz, Toyota





		1 1			•	
					kg	
115.1104	4 pcs	Automo	tive hose	clamp pliers se	t 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	

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