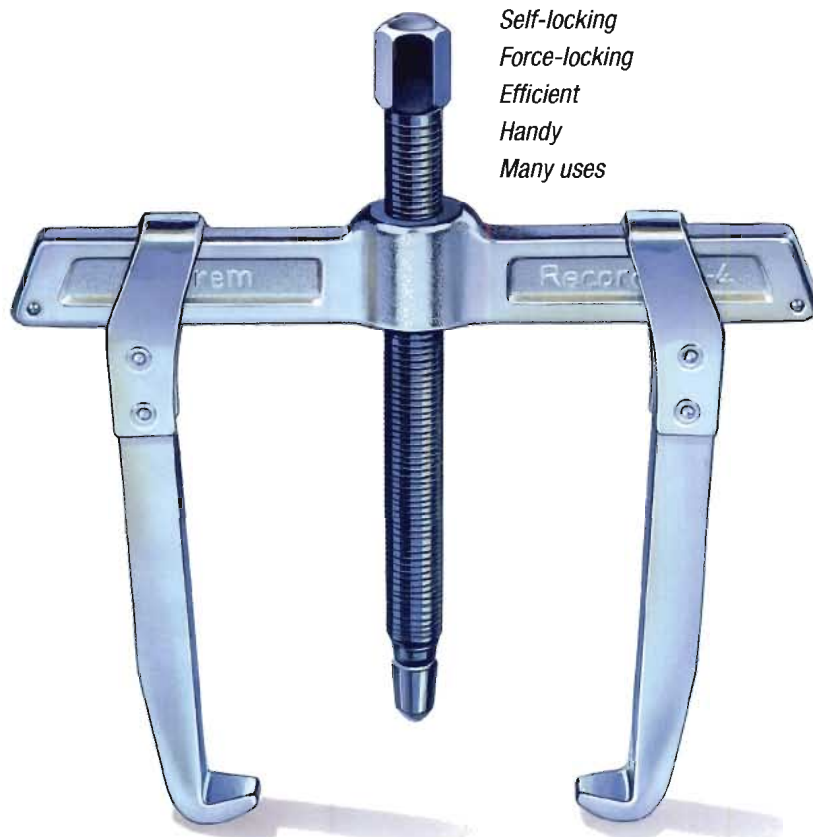


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Two-Arm Puller "RECORD" No. 54



Various patents



*Self-locking
Force-locking
Efficient
Handy
Many uses*

With changeable arms.

For parts to be gripped from outside or from inside such as gear wheels, anti-friction bearings, etc.

The clamping width is adjusted by shifting the puller arms on the traverse.

Thanks to the special patented angular design the arms are self-locking thus excluding sliding away or withdrawal of the arms during work.

The angular design also produces a force-locking connection acting during the removing procedure via the spindle.

High spindle pressure -
Increased force-locking connection -
High automatic locking.

Traverse and arms made of heat-treated chrome alloy steel which is also a reason why the slim as well as space and weight-saving shape is possible.

After detailed testing automobile manufacturers recommend the puller as a special tool.

The mechanical spindles can be supplemented by pivoted, exchangeable spindle adapters (see page 1.23), which, despite of the above, are fixed during work.

Puller galvanized.
Spindle burnished.

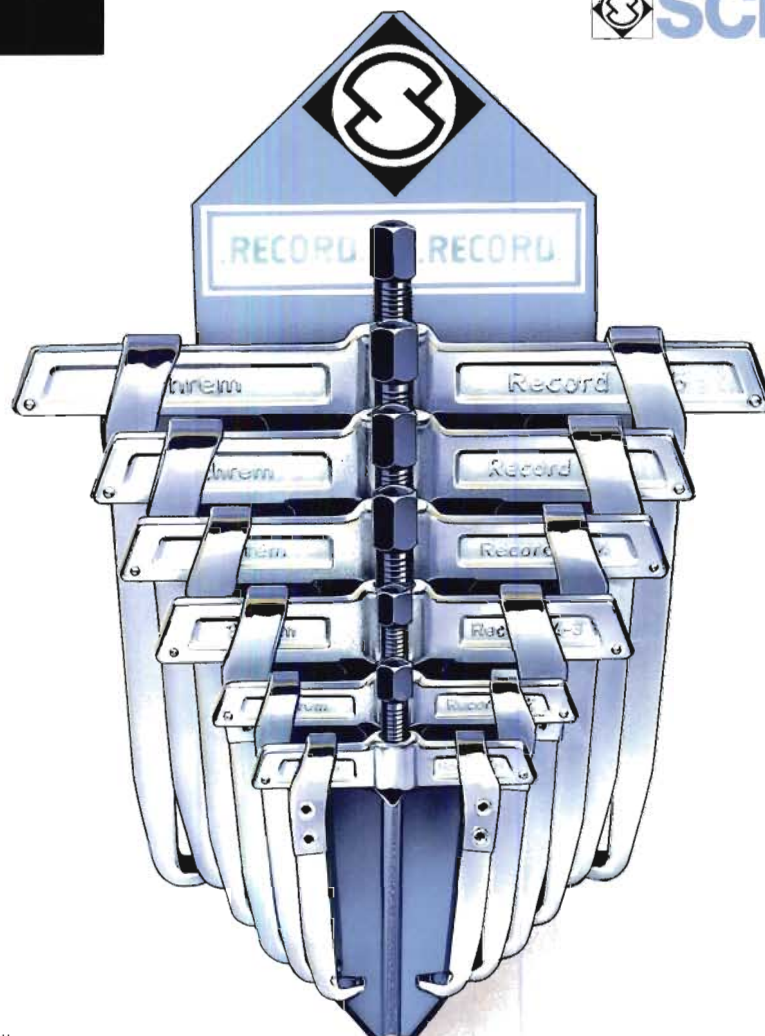
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Two-Arm Puller "RECORD" No. 54

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Various patents



For store or tool crib:
Holder complete with all 6 pullers.

Holder dimensions when assembled:
(W x D x H) 215 x 235 x 475 mm
Blue-coated.

Standard length arms

Purchase Order No.	mm	inch	mm	inch	kg
54-100	80	3.12	100	4.00	0,75
54-200	120	4.75	125	5.00	0,90
54-300	160	6.37	150	6.00	2,30
54-400	200	7.87	175	7.00	2,50
54-500	250	9.87	200	8.00	3,45
54-600	350	13.75	250	10.00	4,40
54-009	Holder with 6 pullers				15,50

Special length arms

Purchase Order No.	For Puller No. 54-	mm	inch	kg
54-101	-100, -200	100	4.00	0,18
54-201	-100, -200	125	5.00	0,22
54-301	-300, -400	150	6.00	0,50
54-401	-300, -400	175	7.00	0,56
54-501	-500, -600	200	8.00	0,78
54-601	-500, -600	250	10.00	0,93

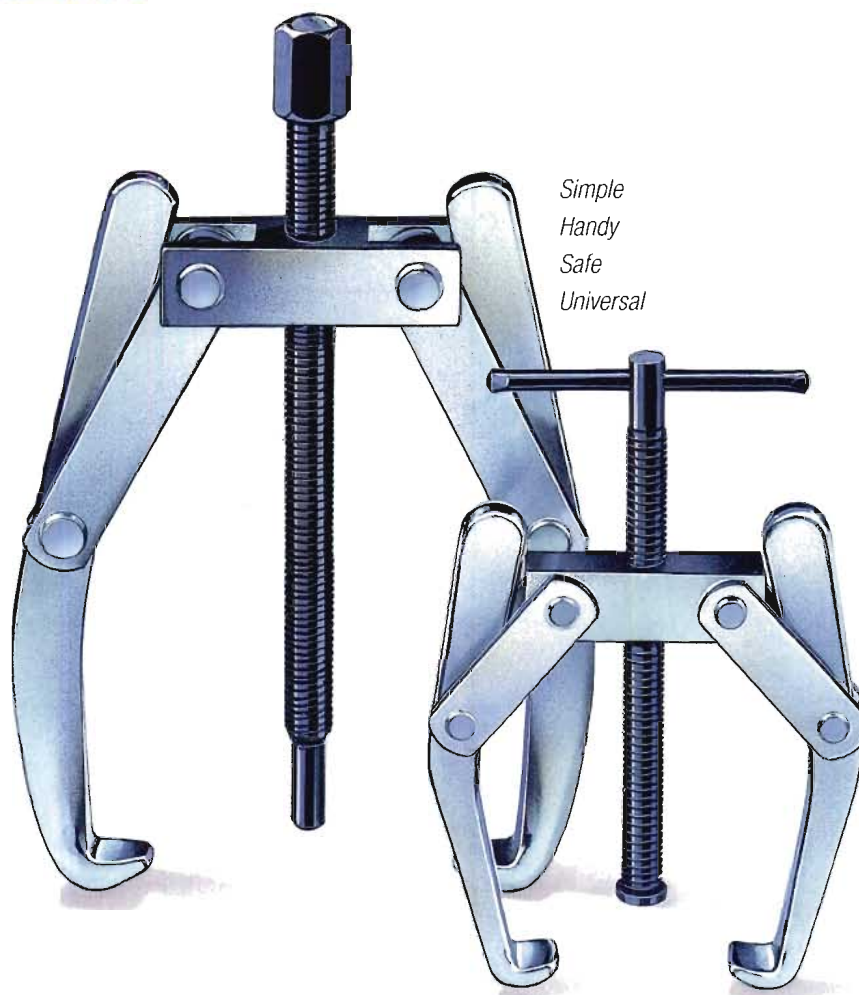
Purchase Order No.	For Puller No. 54-	mm	inch	kg
54-102	-100, -200	200	8.00	0,30
54-202	-100, -200	250	10.00	0,38
54-302	-300, -400	250	10.00	0,73
54-402	-300, -400	300	12.00	0,85
54-502	-500, -600	300	12.00	1,05
54-602	-500, -600	400	16.00	1,30

Technical data subject to change 9.99

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Two-Arm Puller No. 46-0



*Simple
 Handy
 Safe
 Universal*

Simple, handy two-arm puller for parts to be gripped from outside such as belt pulleys, bearings, rings, pole terminals or other parts.

The arms are prevented from withdrawing or sliding off as they are constantly supported at the traverse.

The greater the required removing force the tighter the arms are pressed against the traverse via the part to be removed.

The slim, space-saving arms are made of chrome alloy steel and heat-treated.

The mechanical spindles can be supplemented by pivoted, exchangeable spindle adapters for 46-020 (see page 1.23), which, despite of the above, are fixed during work.

Puller galvanized.
 Spindle burnished.

Purchase Order No.	↔		↑		Δ kg
	mm	inch	mm	inch	
46-000	75	3.00	60	2.37	0,23
46-010	110	4.50	100	4.00	0,55
46-020	220	8.75	200	8.00	1,60

Battery Terminal Puller No. 46-200

Two-Arm Bearing Puller "CORA" No. 47

Various patents

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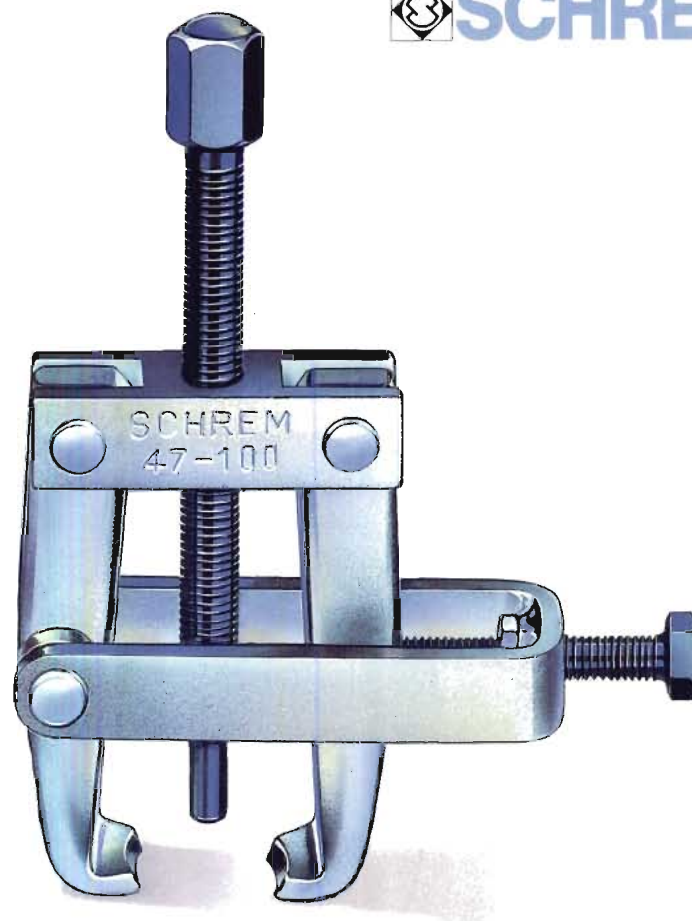
Battery Terminal Puller No. 46-200

For removal of truck wiper arms, pole terminals, etc.

One-hand application for easy work even under unfavorable circumstances. A spring which is installed inside makes the drop-forged, heat-treated arms close permanently.

Puller galvanized.
Spindle burnished.

Purchase Order No.	↔		↑		⚖
	mm	inch	mm	inch	kg
46-200	60	2.37	40	1.62	0,16



Two-Arm Bearing Puller „CORA“ No. 47

For removal of ball bearings, internal bearing rings, etc. which sit close to a face.

The part to be removed can be loosened before removal by means of the clamp and the specially designed arms. Such loosening is just as important for careful removal as centering on the shaft bearing the part to be removed.

Arms made of heat-treated chrome vanadium steel making possible the wedge-shaped design of the arms.

The spindle end contour allows to use pivoted, exchangeable spindle adapter for No. 47-200 (see page 1.23).

Puller galvanized.
Spindles burnished.

Purchase Order No.	↔		↑		⚖
	mm	inch	mm	inch	kg
47-100	45	1.75	65	2.62	0,55
47-200	90	3.50	100	4.00	1,45

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Three-Arm Puller "MOMENT" No. 52



Various patents



With simultaneously and symmetrically to the spindle moveable arms.

All sizes can be operated by one person. Suitable for pulling off parts such as gears, bearings, shavers, etc. The clamping width is set simply by moving the lever system on the cylinder. All 3 arms move simultaneously and symmetrically to the spindle.

During the pulling off operation, the system of levers ensures that the arms are self-locking and provides force-closure during the job. This means the arms cannot be deflected and are prevented from sliding off because the

more firmly a part is seated, the greater is the force with which it is gripped by the arms. Consequently the level of force acting on the cylinder via the lever system is also proportionately higher.

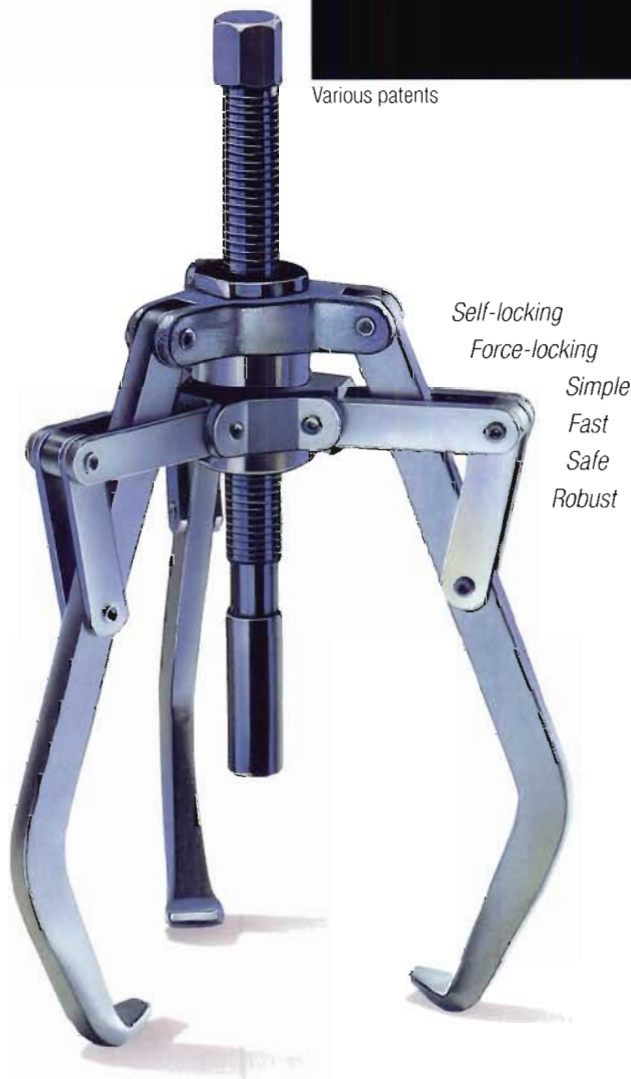
The puller can even be used in unfavourable conditions because the arms always move symmetrically. One person is sufficient for operating all sizes of the puller. The shape of the mechanical spindle makes it possible to be supplemented by a pivoted, exchangeable spindle adapter from size M14x1,5 onwards,

depending on the task for which the puller is being used. (See sheet 1.23 for standard dimensions).

The puller arms are made from heat-treated chrome vanadium steel which permits the slim as well as space and weight-saving shape.

Puller galvanized.
Spindle burnished.

A hydraulic system can be used to facilitate the job of freeing or pulling off seized parts.



*Self-locking
Force-locking
Simple
Fast
Safe
Robust*

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Three-Arm Puller "MOMENT" No. 52

Various patents

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Advantage of the hydraulic system:

It offers the advantage to make work easier and to protect the spindle thread as during work the removing forces only act on the static thread flanks.

The hydraulic spindle and hydraulic pressure tool have a closed system for pressure multiplication. As a result, a small torque is able to generate a much more powerful pulling force which acts purely axially.

Pullers No. 52-390 and 52-640 can also be supplied with hydraulic spindles.

For smaller pullers, we recommend a hydraulic pressure tool (For more details: See catalogue sheet 1.14 Hydraulic Spindles and Hydraulic Pressure Tool).

With mechanical spindle

Purchase Order No.	mm	inch	mm	inch	kg
52-085	85	3.37	65	2.62	0,36
52-130	130	5.12	105	4.12	2,36
52-230	230	9.12	150	6.00	5,36
52-295	295	11.75	235	9.25	6,18
52-390	390	15.37	270	10.75	12,30
52-640	640	25.25	300	12.00	15,80

With hydraulic spindle

Purchase Order No.	mm	inch	mm	inch	kg
52-394	390	15.37	270	10.75	13,60
52-644	640	25.25	300	12.00	17,15

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Three-Arm Puller "DREMO" No. 53



Various patents



Self-locking
Force-locking
Simple
Fast
Safe
Robust

Centrally adjustable arms with infinitely variable thread positioning.

For pulling off parts such as gears, bearings sheavers and similar machinery components which can be gripped symmetrically.

The clamping width is set centrally by turning the knurled disc located above the top star.

This disc is connected to a displacement cylinder with two threads running in opposite directions. This arrangement means that the 2 stars move in unison and so the entire spreading range can be covered with only a few turns.

Furthermore, we have ensured that the arms remain fixed during the pulling off procedure. The arms always move in symmetry with the spindle, which means the puller can even be used in unfavorable conditions. All sizes can be operated by one person.

The shape of the mechanical spindle makes it possible to be supplemented by a pivoted, exchangeable spindle adapter, depending on the task for which the puller is being used. (See sheet 1.23 for standard dimensions).

The puller arms are made from heat-treated chrome vanadium steel which permits the slim as well as space and weight-saving shape.

Puller galvanized.
Spindle burnished.

A hydraulic system can be used to facilitate the job of freeing or pulling off seized parts.

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Three-Arm Puller "DREMO" No. 53

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Various patents



Advantage of the hydraulic system:

It offers the advantage to make work easier and to protect the spindle thread as during work the removing forces only act on the static thread flanks.

The hydraulic spindle and hydraulic pressure tool have a closed system for pressure multiplication. As a result, a small torque is able to generate a much more powerful pulling force which acts purely axially.

Pullers No. 53-390 and 53-640 can also be supplied with hydraulic spindles.

For smaller pullers, we recommend a hydraulic pressure tool (For more details: See catalogue sheet 1.14 Hydraulic Spindles and Hydraulic Pressure Tool).

With mechanical spindle

Purchase Order No.	↔		↑		Δ
	mm	inch	mm	inch	kg
53-130	130	5.12	105	4.12	1,90
53-230	230	9.12	150	6.00	4,00
53-295	295	11.75	235	9.25	5,10
53-390	390	15.37	270	10.75	10,00
53-640	640	25.25	300	12.00	13,75

With hydraulic spindle

Purchase Order No.	↔		↑		Δ
	mm	inch	mm	inch	kg
53-394	390	15.37	270	10.75	10,20
53-644	640	25.25	300	12.00	14,50

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Hydraulic Spindle No. 44



Most times hydraulic spindles are used to make work easier, to loosen parts which are stuck.

Thanks to the enclosed hydraulic system and via pressure transmission great forces are built up by only a low mechanical torque which makes work a lot easier.

The hydraulic spindle is turned into the puller instead of the mechanical spindle. Work is done with only one device. Compared with the "mechanical puller plus hydraulic pressure tool" solution this makes the work much easier. As it is the case with any hydraulic support the spindle is protected as during work the removing forces only act on the static thread flanks.

Spindle made of heat-treated chrome vanadium steel.
 Burnished surface.

Function:

Turn the hydraulic spindle with the big thread just like a mechanical spindle until it reaches the shaft of the part to be removed.

The enclosed hydraulic system is actuated by turning the hexagon spindle building up an internal pressure. The

axial force produced in this way loosens the part so that actual removal can now be easily completed by means of the big spindle thread.

For safety reasons we recommend to use a torque wrench.

Purchase Order No.	Pressure kN	Stroke mm	inch	kg	Thread	Torque max. Nm
44-830	120	10	0.394	2,05	M30x2	50
44-200	120	15	0.590	4,15	M42x2	105
44-700	200	10	0.394	3,25	M50x2	70

Hydraulic Pressure Tool No. 44

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Makes work easier
Handy
Universal
Flat
Hydraulic reset

Most times the hydraulic pressure tool is used together with mechanical pullers to loosen parts which are stuck.

Depending on the size the integrated hydraulic pressure transmission supplies an axial force of 80 kN resp. 150 kN which makes work a lot easier. The pressure tool 44-150 is equipped with hydraulic reset so that, when turning the hydraulic setscrew back, the hydraulic system is automatically reset to zero/starting position. The hydraulic pressure tool protects the spindle thread of the mechanical puller as the main loosening force is acting on static thread flanks.

Pressing tool drop-forged and heat-treated.
Burnished surface.

Function:

Position the hydraulic pressure tool between the shaft end and the puller spindle joining it. The enclosed hydraulic system is actuated by turning the setscrew building up an internal pressure. The axial force produced in this way loosens the part which can now be removed with the mechanical spindle as usual.

Prevention of Accidents:

Pay attention to minimum spindle size and torque as indicated on the table. We recommend to use a torque wrench.

Purchase Order No.	Pressure kN	Stroke mm	inch	Overall height mm	inch	Weight kg	Spindle Ø min.	Torque max. Nm
44-080	80	7	0.276	35	1.38	0,60	M22	25
44-150	150	10	0.394	85	3.35	1,74	M30	50

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Ball Bearing Puller "BÄRENKLAUE" No. 56



*Universal
Practical
Convertible
Reliable*

The puller described first in the following is appropriate especially for removing of radial ball bearings which are in a housing and cannot be gripped neither from outside nor from inside.

The puller jaws grip the bearing between the balls at the external bearing ring while the puller is supported at the internal bearing ring.

3 puller sets/sizes with 13 different jaws in total are offered. The 3 sets cover 66 radial ball bearing types (further details see next page/table).

From the table on the next page you can see the recommended puller-jaw No. assignment according to the bearing number.

In this connection please consider that only the bearing diameters but not the ball number and ball diameter are standardized. The values indicated on the table are just for orientation. If a jaw is not fitting the jaw with the next / previous number shall be applied. The number and position of the arms is to be determined.

(Example:

Bearing No. 6211 with 10 balls = jaw No. 4 and 4 arms.

The jaws are to be mounted in such a way that they can still be moved; position the arms so that 2 resp. 3 bearing balls at a time are opposed between the arms.)

There is the possibility to use the jaws No. 1 to No. 5 together with the extractor No. 56-200 for bearings which are positioned deeper than 90 mm on a shaft.

To allow our customers to compose their universal ball bearing puller by themselves according to their requirements all parts can be purchased separately.

By inserting grips instead of jaws the puller can be converted to the Multi-arm puller „COMBI“ No. 57 (further details see last page).

Ball Bearing Puller "BÄRENKLAUE" No. 56

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Jaws made of chrome vanadium steel,
heat-treated and burnished.

Puller and key galvanized.
Spindle burnished.

Detailed operating instructions are
attached.

The puller basic tool and the recommended jaw number are assigned to the respective DIN bearing number.

Puller No.	Bearing series	Jaw No.	Bearing series	Jaw No.	Bearing series	Jaw No.	Bearing series	Jaw No.
56-000	6004	01	6200	02	6300	01		
	6005	02	6201	02	6301	03		
	6006	01	6202	01	6302	03		
			6203	03				
			6204	03				
56-100			6205	03				
	6007	1	6206	2	6303	2	6403	4
	6008	1	6207	3	6304	2	6404	5
	6009	1	6208	3	6305	3	6405	5
	6010	1	6209	4	6306	4		
	6011	2	6210	4	6307	4		
	6012	2	6211	4	6308	5		
	6013	2	6212	5				
	6014	3						
	6015	3						
	6016	4						
	6017	4						
56-200	6018	5						
	6019	5						
	6020	5						
	6021	16	6213	16	6309	16	6406	16
			6214	16	6310	16	6408	7
			6215	16	6311	11	6409	17
			6216	16	6312	17	6410	17
			6217	7	6313	17	6412	23
			6218	17	6314	17		
			6219	17	6315	23		
					6316	23		
					6317	23		
					6318	23		
					6319	23		

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Ball Bearing Puller "BÄRENKLAUE" No. 56

Multi-Arm Puller "COMBI" No. 57

1 complete set of ball bearing puller No. 56 in a box:

Ball bearing puller consisting of:

Purchase Order No. 56-020: 1 extractor No. 56-000
4 arms, clamping depth
65 mm / 2.56"
1 set of jaws No. 56-001-01,
56-001-02 and 56-001-03
1 SW 14 T-handle key

Purchase Order No. 56-120: 1 extractor No. 56-100
4 arms, clamping depth
90 mm / 3.54"
1 set of jaws No. 56-101-1,
56-101-2, 56-101-3,
56-101-4 and 56-101-5
1 SW 22 T-handle key

Purchase Order No. 56-220: 1 extractor No. 56-200
4 arms, clamping depth
150 mm / 5.90"
1 set of jaws No. 56-201-7,
56-201-11, 56-201-16,
56-201-17 and 56-201-23
1 SW 22 T-handle key



With special arms the ball bearing puller can be converted to a multi-arm puller.

Complete assortments in a box consisting of: Ball bearing puller "BÄRENKLAUE" No. 56 and Multi-arm puller "COMBI" No. 57.

Purchase Order No. 56-520: 1 extractor No. 56-000
4 arms, clamping depth 65 mm / 2.56"
1 set of jaws No. 56-001-01,
56-001-02 and 56-001-03
1 set of arms No. 57-008
1 SW 14 T-handle key

Purchase Order No. 56-620: 1 extractor No. 56-100
4 arms, clamping depth 90 mm / 3.54"
1 set of jaws No. 56-101-1,
56-101-2, 56-101-3,
56-101-4 and 56-101-5
1 set of arms No. 57-108
1 spindle adapter No. 23-52207022.
1 SW 22 T-handle key

Purchase Order No. 56-720: 1 extractor No. 56-200
4 arms, clamping depth 150 mm / 5.90"
1 set of jaws No. 56-201-7,
56-201-11, 56-201-16,
56-201-17 and 56-201-23
1 set of arm
1 spindle ada
1 SW 22 T-t



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Multi-Arm Puller "COMBI" No. 57

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*Many uses
Simple
Reliable
Convertible*



Number and position of the arms can vary as you like according to requirements.

This feature is a prerequisite if, for example, the part to be removed can be taken only by gripping into existing asymmetrical openings.

In such cases it is necessary to have the possibility of choosing any arm position required. Withdrawal of the arms during removal is excluded as the grips have a hold at the arms.

The greater the force of the spindle applied on the grips via the part to be removed the tighter they are pressed against the arms providing a force locking connection via the part disk.

The mechanical spindles can be supplemented by pivoted, exchangeable spindle adapters (see page 1.23), which, despite of the above, are fixed during work.

Arms made of chrome vanadium steel, heat-treated and galvanized.

Galvanized puller, burnished spindle and spindle adapter.

Purchase Order No.	↔ mm inch		↑ mm inch		Number of arms	⚖ kg
57-040	120	4.72	120	4.72	4	1,05
57-030	120	4.72	120	4.72	3	0,85
57-020	120	4.72	120	4.72	2	0,65
57-140	210	8.27	200	7.87	4	2,70
57-130	210	8.27	200	7.87	3	2,25
57-120	210	8.27	200	7.87	2	1,80
57-240	280	11.02	280	11.02	4	3,00
57-230	280	11.02	280	11.02	3	2,50
57-220	280	11.02	280	11.02	2	2,00

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Special Bearing Puller Basic Tool No. 63



Various patents



Variable
Reliable
Many uses
Simple



This puller basic tool consists of spindle, top part and clamping sleeve. The respective collets are selected depending on the part to be removed (see page 1.18).

For removal the collets and the top part are screwed together. Position the puller and close the collets by turning the clamping sleeve until the collet embraces the bearing to be removed free from play.

If a bearing is installed deeply on a shaft the clamping depth of the remover can be increased by applying as many extensions as you like.

There is no problem with pocket bore-holes for this puller as its external \varnothing is smaller than the external bearing \varnothing in most cases.

The mechanical spindles can be

supplemented by pivoted, exchangeable spindle adapters (see page 1.23), which, despite of the above, are fixed during work.

Now, the basic tools No. 63-700 and 63-800 can be delivered with hydraulic spindle No. 44-830 (Details see page 1.14).

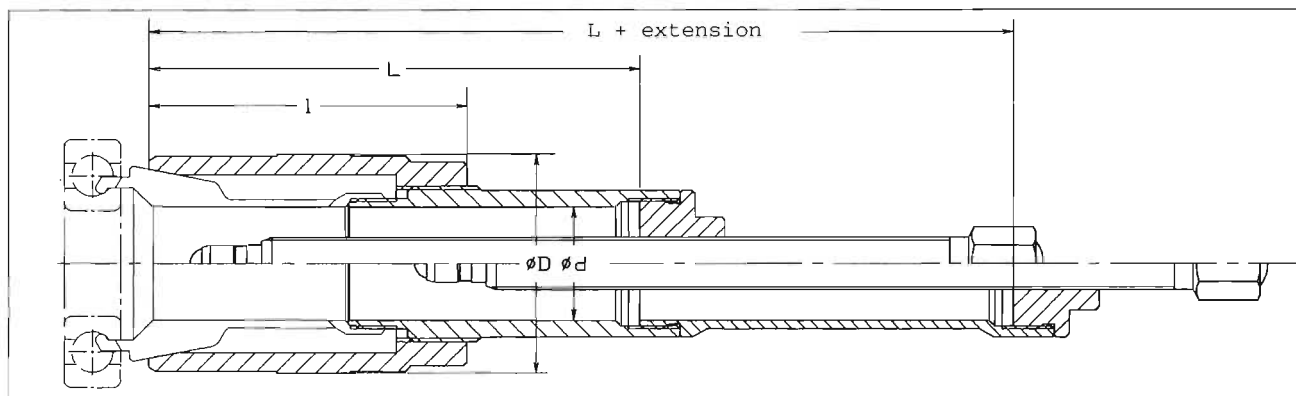
Puller and spindle burnished.

Special Bearing Puller Basic Tool No. 63

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Various patents



Dimensions:

Basic tool No.	$\varnothing d$		$\varnothing D$		l		L		Extension		$L + \text{Extension}$	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
63-100	10,5	0.41	26,0	1.02	62,0	2.44	95,0	3.74	70,0	2.76	165,0	6.50
63-200	18,0	0.71	35,0	1.38	64,0	2.52	100,0	3.94	80,0	3.15	180,0	7.09
63-400	30,5	1.20	60,0	2.36	84,0	3.31	135,0	5.31	100,0	3.94	235,0	9.25
63-500	46,0	1.81	75,0	2.95	90,0	3.54	150,0	5.90	100,0	3.94	250,0	9.48
63-600	66,0	2.60	100,0	3.94	102,0	4.01	170,0	6.69	100,0	3.94	270,0	10.63
63-700	77,0	3.03	125,0	4.92	120,0	4.72	200,0	7.87	100,0	3.94	300,0	11.81
63-800	100,0	3.94	140,0	5.51	150,0	5.90	240,0	9.45	150,0	5.90	390,0	15.35

Ordering specifications for

Basic tool

Purchase Order No.	Δ kg
63-100	0,20
63-200	0,44
63-400	1,10
63-500	2,15
63-600	3,90
63-700	7,70
63-800	8,00

Collets

Purchase Order No.
see page 1.18
When ordering collets pay attention to indicate:
– Bearing No.
– Pulling principle

Extension

Purchase Order No.	Δ kg
63-105	0,06
63-205	0,11
63-405	0,26
63-505	0,42
63-605	0,58
63-705	0,68
63-805	1,90

Technical data subject to change 9.99

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Special Bearing Puller Basic Tool No. 64



Various patents



*Hydraulic
Variable
Simple
Reliable
Versatile*

The basic tool No. 64 is an outgrowth of the model No. 63 used up to now. The requirements to be fulfilled were: Improve closing and make it easier. The collets used up to now (see page 1.18) can be applied further on.

The collets are screwed onto the top part by hand (do not fix). The collets gripping the bearing are closed via the left-hand thread of the clamping nut, which is pivoted and connected with the clamping sleeve thus drawing the collets into the clamping sleeve in axial direction only. This makes it a lot easier to fix the collet free from play on the bearing to be removed.

2 sizes No. 64-804 and 64-904 for bearings with a bore-hole Ø of 100 mm / 4 inch resp. 120 mm / 4.75 inch were added.

As per standard these two devices are equipped with hydraulic spindle No. 44-700 (200 kN). To minimize the weight of these basic devices the assembly was redesigned.

If a bearing is installed deeply on a shaft the clamping depth can be increased by placing extensions in steps of 100 mm / 4 inch between.

Just as for basic tool No. 63 there is no problem with pocket bore-holes also for

this puller as its external Ø is smaller than the external bearing Ø in most cases. The mechanical spindles can be supplemented by pivoted, exchangeable spindle adapters (see page 1.23), which, despite of the above, are fixed during work.

Galvanized basic tool No. 64-400 up to 64-700, extension burnished. Basic tool No. 64-804 and 64-904 as well as set of extensions burnished. Spindles burnished.

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Special Bearing Puller Basic Tool No. 64

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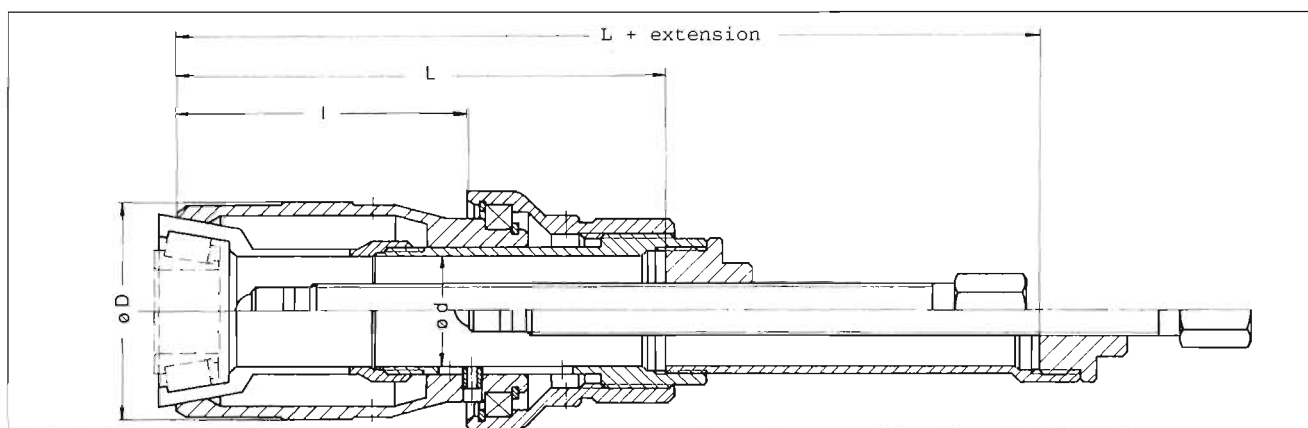


Various patents

Since for bearings with a bore-hole diameter of 100 mm/4 inch resp. 120 mm/4.75 inch the external bearing diameters can vary a lot the clamping sleeve must be adapted to the pulling collet to guarantee optimum function. This is the reason why in this case no clamping sleeve is included in the scope of delivery of the basic tool No. 64-804 and No. 64-904 as it is usually standard but has to be determined in accordance with the collets No.

List of clamping sleeves:

Purchase Order No.	External Ø		For collets No.	Purchase Order No.	External Ø		For collets No.
	mm	inch			mm	inch	
64-8061	120	4.72	64-8106, 64-8107	64-8065	200	7.87	64-8105
			64-8108, 64-8114	64-8067	220	8.66	64-8111, 64-8112
64-8062	140	5.51	64-8101, 64-8109	64-9061	140	5.51	64-9103, 64-9104
			64-8110				64-9105, 64-9108
64-8063	160	6.30	64-8102				64-9110, 64-9111
64-8064	180	7.08	64-8103, 64-8104	64-9062	160	6.30	64-9112
			64-8113, 64-8115	64-9063	180	7.08	64-9102



Dimensions:

Basic device No.	Ø d		Ø D		l		L		Extension		L + Extension	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
64-400	30.5	1.20	60	2.36	78	3.07	135	5.31	100	3.94	235	9.25
64-500	46.0	1.81	75	2.95	80	3.15	150	5.90	100	3.94	250	9.84
64-600	66.0	2.60	100	3.94	92	3.62	170	6.69	100	3.94	270	10.63
64-700	77.0	3.03	126	4.92	120	4.72	205	8.07	100	3.94	305	12.00
64-804	102.0	3.94	130	5.11	100	3.94	100	3.94	100	3.94	200	7.88
64-904	122.0	4.80	180	7.09	100	3.94	100	3.94	100	3.94	200	7.88

Ordering specifications for

Basic tool

Purchase Order No.	kg
64-400	1,25
64-500	2,50
64-600	3,80
64-700	7,80
64-804	7,50
64-904	8,90

Collets

Purchase Order No.
see page 1.18
When ordering collets pay attention to indicate:
- Bearing No.
- Pulling principle

Extension

Purchase Order No.	kg
64-405	0,26
64-505	0,42
64-605	0,58
64-705	0,68
64-805	2,40
64-905	2,75

Technical data subject to change 9/99

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Collets for Special Bearing Puller

To be used with:

- Basic Tool No. 63
- Basic Tool No. 64



SCHREM

Collets (gripping unit) for gripping grooved, detachable, self-aligning and inclined ball bearings as well as self-aligning roller bearings, internal bearing rings, ABS disks, gear wheels, etc.

To guarantee perfect function this bearing puller always requires adaptation of the collet to the dimensions of the part to be removed in regard with their gripping contour.

Since the collet grip the part symmetrically on the maximum possible peripheral area careful removal is guaranteed. The number of damages caused during dismounting is minimized.

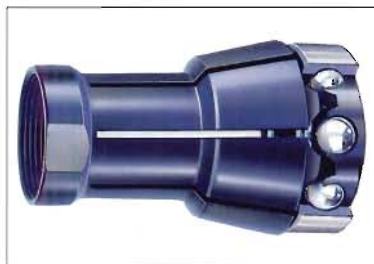
Pulling principle assignment depends on the assembly conditions and the part to be removed.

As standardization of the bearings only applies to the external dimensions the design of the collets is made in a way to normally compensate dimensional differences which are due to provision from various bearing manufacturers.

Special motor-vehicle bearings cannot be purchased at normal trade conditions and often have other numbers.

It is not always possible to adhere to our identification principle - Collets No. = Bearing No. as we do our best to assign as many bearings as possible to one collet.

Perfect gripping of the collets always requires application of collets which are suitable for the respective bearing. The pulling principle is to be considered as well.



Pulling principle 1: Gripping of the internal ring. The bearing may be housed so that it cannot be gripped neither from outside nor from inside. Mostly required for: Grooved, inclined, self-aligning ball bearings, four-point contact bearings, ball bearings with a divided internal ring as well as roller bearings. Even bearings installed deep in housings can be gripped if the external bearing ring \varnothing is bigger than the external \varnothing of the basic device.



Pulling principle 2: Gripping of tapered-roller bearings at the rollers independent of their number. The internal collets contour is adapted to the rollers and their angle. For certain bearing dimensions removal of deeply installed roller bearings is possible.



Pulling principle 3: Gripping of a tapered-roller bearing at the internal ring, e. g. for „O“ installation. In this case there are mostly just a few possibilities for gripping behind, and such possibilities are determined by the bearing specifications. Therefore high precision is required for manufacture of such collets.



Pulling principle 4: Gripping by loosening via the bearing ring chamfer. Examples: Internal ring of cylinder roller bearings, inclined and detachable ball bearings, 2nd half of the internal ring of grooved ball bearings (four-point contact bearings) as well as external ring of grooved ball bearings, self-aligning roller bearing and needle bearings, ABS rings, gear wheels, cleanbearings, etc.

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If you need our advise kindly inform us about assembly conditions and bearing number.

In case a bearing is not yet indicated on the table the size of the collets depends on the internal bearing Ø. For classification of the standard basic tool please

refer to catalogue sheet 1.16 and 1.17. For bigger bearings we recommend special collets and basic tool manufacture coming up to requirements.

All collets are made of chrome vanadium steel, they are heat-treated and burnished.

Re-moving principle	Purchase Order No. of collets	For Bearing No.	Re-moving principle	Purchase Order No. of collets	For Bearing No.	Re-moving principle	Purchase Order No. of collets	For Bearing No.	Re-moving principle	Purchase Order No. of collets	For Bearing No.
Basic tool size 1			Basic tool size 2			Basic tool size 4			②	63-494	Tim 14124
①	63-110 63-111 63-112 63-113 63-114 63-115 63-116 63-117 63-118 63-119	6000 6200/7 RIV 12123 6200/8 607 (EL7) 608 (EL8) 609 (EL9) 625 (EL5) 634 (R4) 626 (EL6) 635 (R5) 627 (R7) 629 (R9)	①	63-242 63-210 63-211 63-240 63-212 63-213 63-214 63-215 63-216 63-217 63-219	6000 6001 6002 6003 6201 6202 6203 6300 6301 6302 16003	①	63-427 63-410 63-466 63-467 63-411 63-412 63-4145 63-414 <				

In case a bearing is not indicated the puller size depends on the internal bearing Ø. Collets for further bearings upon inquiry. The table is permanently supplemented.

Re-moving principle	Purchase Order No. of collets	For Bearing No.	Re-moving principle	Purchase Order No. of collets	For Bearing No.	Re-moving principle	Purchase Order No. of collets	For Bearing No.	Re-moving principle	Purchase Order No. of collets	For Bearing No.
Basic tool size 4			Basic tool size 5			②			④		
③	63-481	30205	①	63-5101	1208 TV	63-5119	L	610 549	④	63-5121	NJ 2208
		32205		63-510	6007	63-541	LM	48548		63-5122	FAG 561 388
	63-446	32205 B		63-511	6008		LM	69349		63-5103	NJ 2209
		333 729		63-512	6207	63-542	LM	67048		63-5127	NJ 407
	63-479	30206			SKF 360 908	63-543	SKF	332 541		63-5128	NU 211
		32206			FAG 523 681		SKF	33145		63-5141	NU 307
	63-482	30207			FAG 529 824		FAG	K26 882		63-5140	NU 408
		32207		63-513	6208		SKF	CK24 780		63-591	NU 2207
	63-4132	30304		63-514	6209	63-5116	M	88046		63-5142	NKJ 35/20 A
	63-450	30306		63-515	6210	63-5106	HM	88542	Basic tool size 6		
		32306		63-567	6305			568 331	①	63-610	6010
		RIV 02474		63-568	6306/8			562 672		63-611	6011
		FAG 506 577		63-517	6307	63-572	SKF	88649		63-612	6210
	63-456	32307		63-518	6308			330 865		63-613	6211
	63-477	M 86649		63-519	6309	63-594	M	801 310		63-614	6212
	63-448	KM 88010		63-520	6310	63-5108	M	38549		63-615	6213
		FAG 511 688		63-521	6312	63-544	M	802 048		63-616	6310
		SKF 331 054		63-522	6407	63-545	HM	89449		63-617	6311
	63-4129	M 84548		63-523	6408			89446		63-618	6312
	63-449	RIV 10/5015		63-558	A 810 337-1	63-547	SKF	561 464		63-621	SKF 329 081
	63-451	322 053		63-571	11208		HM	331 140		63-674	JM 205 149
	63-452	30204		63-524	16008	63-587	SKF	88648		63-673	L 507 949
		LM 11949		63-5120	SKF 445 535		LM	331 274		63-675	16010 C3
	63-453	331 699		63-5112	FAG 546 016	63-588	LM	67048		63-652	16012
		114 403 78		63-563	SKF 361 580		Tim	14124		63-682	61912
	63-454	88043		63-525	RL 10		K	19150		63-680	SKF 5411
	63-455	331 139		63-526	2208	63-590	Tim	342 S		63-684	NTN 22311
	63-447	SKF 332 286		63-5109	2307	63-5111		25572		63-666	FAG 2211
	63-474	857 615 3		63-577	3207	63-569	LM	25590		63-676	2213
	63-485	FAG 518 771		63-574	3208	63-548	LM	27881		63-677	2311
	63-4125	SKFB 332 541		63-5133	3308	63-576	LM	27880		63-657	2312
④	63-457	6202	②	63-5145	Tim 420	63-546	Tim	29749		63-689	FAG 2313
	63-458	6206		63-584	30205	63-556	LM	794 730		63-619	3310
		6305		63-527	30206 AS	63-562	LM	501 349		63-620	3312
		6304			32206 A		LM	25877			
	63-4112	6303		63-528	32207	63-5135	LM	25880	②	63-622	30210
	63-4128	NJ 2205			32207	63-5136	KHM	803 149			32210
	63-462	NU 305			32207	63-5105	HM	804 848		63-624	Tim 30211
	63-4116	NU 2206			FAG 511 687	63-575	FAG	518 772			30211
	63-4149	NJ 2305		63-529	SKF 330 757			521 425		63-625	30211
		NJ 305			30208			330 757 L			32211
	63-4108	NU 2205		63-530	32208	63-5104	FAG	562 495		63-626	30212
	63-459	NU 205			30209	63-5138	FAG	572 648			32212
	63-460	NU 206		63-5144	32209		SKF	328 469		63-627	30213
	63-461	NU 207		63-535	30210	63-5134	FAG	578 973			32213
	63-471	NU 2207			30211	63-5102	SKF	328 178		63-647	30309
	63-483	NU 2305		63-595	32211	63-589	SKF	332 613			32309
	63-4121	NU 306		63-536	31307		FAG	561 485		63-627	FAG 579 248
	63-4100	FAG 538 367		63-5124	31308	63-5107	NSK	JL 69349			30310
	63-475	L 25		63-537	31590		SKF	332 821		63-628	32310
	63-463	17305			32008	63-5132	SKF	332 821			30311
		SKF 305 862			201 521		JLM	104 948		63-629	32311
		SKF 309 277			LM 300 849	③	63-557	30207			30312
		FAG 518 220		63-538	FAG 568 381			32207		63-623	32312
		FAG 526 419		63-539	32010	63-559		30307			31311
	63-480	FAG 563 466		63-586	32011			32307		63-648	31312
	63-476	FAG 515 828		63-5129	32012	63-560		30308		63-639	32009
	63-4122	SKF 328 227		63-583	32208			32308			32010
	63-464	SKF 633 095		63-531	30305	63-561		30309			Tim 39977
	63-440	FAG 577 941			30306			32309		63-653	FAG 533 060
				63-532	32306	63-5146	Tim	420			Tim 32012
					30307	63-5143		31308			FAG 33111
					32307	63-582	Tim	367			Tim 35663
					Tim 26577	63-5139	KOYO	57594			SKF 331 111
				63-5137	Tim 26877	63-585	SKF	319 452		63-631	32211 A-JA
					32307	63-564		330 865			FAG 522 380
				63-533	33208	63-565		331 054			FAG 521 740
					30308	63-5125	SKF	332 541			SKF 331 305
					32308	63-5126	SKF	332 821			TIM 28985
					803 145	63-597		801 346		63-661	KOYO 33011 J
					Tim 367					63-667	FAG 33013
				63-534	30309	④	63-550	6007		63-638	33109
					32309	63-5131		6008		63-621	SKF 329 081
				63-5110	33009			FAG 564 255		63-663	SKF 33113 R
					LM 102 901		63-551	6204		63-662	FAG 33210
					Tim 102 949		63-552	6205		63-664	FAG 33212
				63-5117	33109		63-553	6207			Tim 395
				63-5118	33205			20207			JM 511 946
					320/28 X		63-554	6208			
				63-578	33207			7208			
	63-596	33209			6305		63-555	320 272			
		Tim 3872			320 275		63-593	532 066			
		FAG 574 512			63-570		63-592	532 066			
		SKF 328 707			63-581			31175			
				63-540	33885			FAG 512 533			
					33889			360 507			
					3039 A		63-566	11206			
				63-580	L 45449		63-598	11207			
							63-5100	11208			
							63-599				

In case a bearing is not indicated the puller size depends on the internal bearing Ø. Collets for further bearings upon inquiry. The table is permanently supplemented.

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Re-moving principle	Purchase Order No. of collets	For Bearing No.	Re-moving principle	Purchase Order No. of collets	For Bearing No.	Re-moving principle	Purchase Order No. of collets	For Bearing No.	Re-moving principle	Purchase Order No. of collets	For Bearing No.
Basic device size 6			Basic device size 7			Basic device size 8			Only suitable for Basic Device No. 64		
Basic device size 64 - 8...			Basic device size 64 - 8...			Basic device size 64 - 8...			Basic device size 64 - 9...		
②	63-632 63-678 63-686	K 33822 39236 Tim 39573 SKF 39590	①	63-710 63-726 63-711 63-712 63-713 63-727 63-714 63-731 63-715 63-718 63-745	6014 6210 6214 6215 6216 6313 6314/8 6315 6316 22316 HKL 3315	①	63-845 63-850 63-832 63-836 63-848 63-831 63-838 63-852	6220 6316/8 6317/7 6317/8 6318/9 6320 6322 61818	②	64-8115	33022
	63-633 63-669 63-660 63-640 63-683 63-668 63-670 63-685 63-673	CK 6379 CK 6386 JM 207 049 Tim 342 S Tim 367 Tim 529 X Tim 610 549 LM 806 649 HM 807 048/10 HM 807 040 L 507 949	②	63-743 63-719 63-720 63-746 63-721 63-742 63-722 63-723 63-747 63-724 63-725 63-728 63-740 63-717	6379/6320 30214 32214 30215 32215 32016 30310 32310 30310 A 30313 32313 30314 32314 31314 TIM 913 849 30315 32315 33019 33213 JM 714 249 33281 FAG 528 983 B SKF 331 933 NA 673	②	63-810 63-811 63-812 63-813 63-814 63-815 63-816 63-817 63-818 63-819 63-820 63-821 63-822 63-823 63-846 63-830 63-835 63-833 63-824 63-825 63-844 63-826 63-827 63-828 63-829	30216 32216 30217 32217 30218 32218 30219 32219 30220 32220 30311 32311 30313 32313 30314 32314 30315 32315 30316 32316 30317 32317 30318 32318 30319 32319 30320 32320 FAG 31314 32011 32019 33214 27687 33215 33217 Tim 37431 330 931 330 933 330 934 222/2215	④	64-8101 64-8102 64-8103 64-8104 64-8105 64-8113 64-8111 64-8112 64-8106 64-8107 64-8108 64-8114 64-8109 64-8110	6213 6215 6217 6218 6219 6313 6318 6319 NU 213 NU 215 NU 217 NU 313 NU 318 Nu 319
③	63-656 63-672 63-636	22314 30211 A 32211 30310 32310 Tim 905 843 30311 31310 32311 31312 32012 32310 32212 32213 FAG 33210 SKF 362 376 A FAG 533 317 FAG 30210 714 149 HM 803 149 31311 39590 JM 511 946 Tim 367	③	63-737 63-748 63-733 63-738 63-741 63-730 63-739	22315 31314 32215 KOYO33281 TIM 643 331 933 JM 716 649	③	63-847 63-834 63-841 63-851 63-849	30218 32017 37625 Tim JM 515 649 FAG K 27620	③	64-9112	6322
④	63-644 63-658 63-651 63-634 63-635	STEYR 595 0910 2312 6309 22310 C NU 313	④	63-729 63-732 63-749	3210 NU 315 E 275	④	63-842 63-843 63-839	NJ 219 NJ 2216 NU 2322	④	64-9103 64-9104 64-9111 64-9102 64-9108 64-9110 64-9105	33115 33117 32021 6218 N NU 1021 N NJ 1021 N NJ 2215

In case a bearing is not indicated the puller size depends on the internal bearing Ø.

Collets for further bearings upon inquiry. The table is permanently supplemented.

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SCHREM

Counterstay

No. 62

Internal Puller

No. 62-0

Striking Puller

No. 59



Purchase Order No. 62-320

Complete set in a box consisting of:
Internal puller No. 62-005 to
No. 62-060, Counterstay No. 62-100
and No. 62-200

Internal Puller

used for anti-friction bearings, internal bearing rings, needle bearings, bushes and similar.

In a way design and shape are made so as to loosen the part to be extracted before the actual pull-out procedure. The part is taken evenly by turning in the spreading spindle. Bipartition, quadripartition or hexapartition has been selected depending on the diameter. In this way it is guaranteed that the puller is positioned at the

maximum possible range. Internal puller made of heat-treated chrome vanadium steel, burnished.

To draw the part off the bore-hole a counterstay or striking puller is required additionally to the internal puller.



The counterstay is designed in such a way that the cranked arms can be moved in any direction by hand without using the clamping nut.

Because of the crank the arms are always supported all over their face and, at the same time, may be arranged completely asymmetrically to one another in order to adapt to the supporting face in this way.

Counterstay made of galvanized heat-treatable steel.
Spindle burnished.

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Counterstay

No. 62

Internal Puller

No. 62-0

Striking Puller

No. 59

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Werkzeugfabrik GmbH
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Phone 0 73 22 / 60 06
Fax 0 73 22 / 60 08



Internal Puller

Purchase Order No.	for Internal Ø mm	inch	mm	inch	kg
62-005	5 - 6,5	0.20-0.26	35	1.38	0,09
62-007	7 - 9,5	0.28-0.37	35	1.38	0,09
62-010	10 - 13,5	0.40-0.53	35	1.38	0,10
62-014	14 - 19,5	0.56-0.77	45	1.77	0,13
62-020	20 - 29,5	0.81-1.16	50	1.97	0,18
62-030	30 - 39,5	1.18-1.56	90	3.54	0,25
62-040	40 - 49,5	1.57-1.95	95	3.74	0,48
63-050	50 - 59,5	1.97-2.34	95	3.74	0,56
62-060	60 - 69,5	2.36-2.74	95	3.74	0,62

Further sizes and fractional dimensions upon request.

Counterstay

Purchase Order No.	Supporting Ø mm	inch	kg	For Internal extractor
62-100	30-95	1.18-3.74	0,60	62-005 bis 62-030
62-200	55-135	2.16-5.31	1,45	62-040 bis 62-060

Striking Puller

suitable for internal puller with threaded connection M10 resp. M14x1.5.

The advantage of the striking puller is that it can be used independent of the supporting face. It is screwed to the internal puller. Moving the impact weights along the sliding bar extracts the part.

The puller size depends on the requirements. We recommend the following combination:

Up to a bore-hole Ø 39 mm No. 59-062
Up to a bore-hole Ø 69 mm No. 59-362

Purchase Order No.	Striking path mm	inch	Impact weight kg	kg
59-062	90	3.54	0,9	1,20
59-362	300	11.81	0,9	1,40

Technical data subject to change 9/99

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Bearing Splitter

No. 48

Puller

No. 49



Universal use for all parts which can be gripped from outside and be flush with the tool such as ball bearings, roller bearings, bearing rings, etc.

By alternate turning of the nuts the two wedge-shaped halves of the bearing splitter are moved behind the part to be removed.

To guarantee a safe connection between the bearing splitter and the puller the two devices are screwed together by means of the pull rods.

After that the pull rods are fixed on the traverse of the removing device.

Removal is effected by turning the spindle in opposite to the shaft of the part to be removed.

If a part has a very long shaft the pull rods can be extended whenever requested.

All parts are made of chrome alloy steel, drop-forged.

The separating and removing device is galvanized, the spindles are burnished.

The mechanical spindles can be supplemented by pivoted, exchangeable spindle adapters (see page 1.23), which, despite of the above, are fixed during work.

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Bearing Splitter No. 48

Puller No. 49

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Separating Device

Purchase Order No.	Clamping range		Puller No.	⚖ kg
	mm	inch		
48-060	60	2.36	49-100	0,57
48-075	75	2.95	49-100	0,70
48-115	115	4.53	49-200	1,75
48-150	150	5.90	49-300	4,00
48-210	210	8.27	49-400	10,00

Puller

Purchase Order No.	↔		↑ ↓	For Bearing splitter No.	⚖ kg
	mm	inch			
49-100	45-130	1.77 - 5.11	150	5.90 48-060/48-075	0,97
49-200	85-210	3.35 - 8.26	200	7.87 48-115	3,35
49-300	100-300	3.94 - 11.81	300	11.81 48-150	6,20
49-400	150-360	5.90 - 14.17	300	11.81 48-210	8,81

Extension

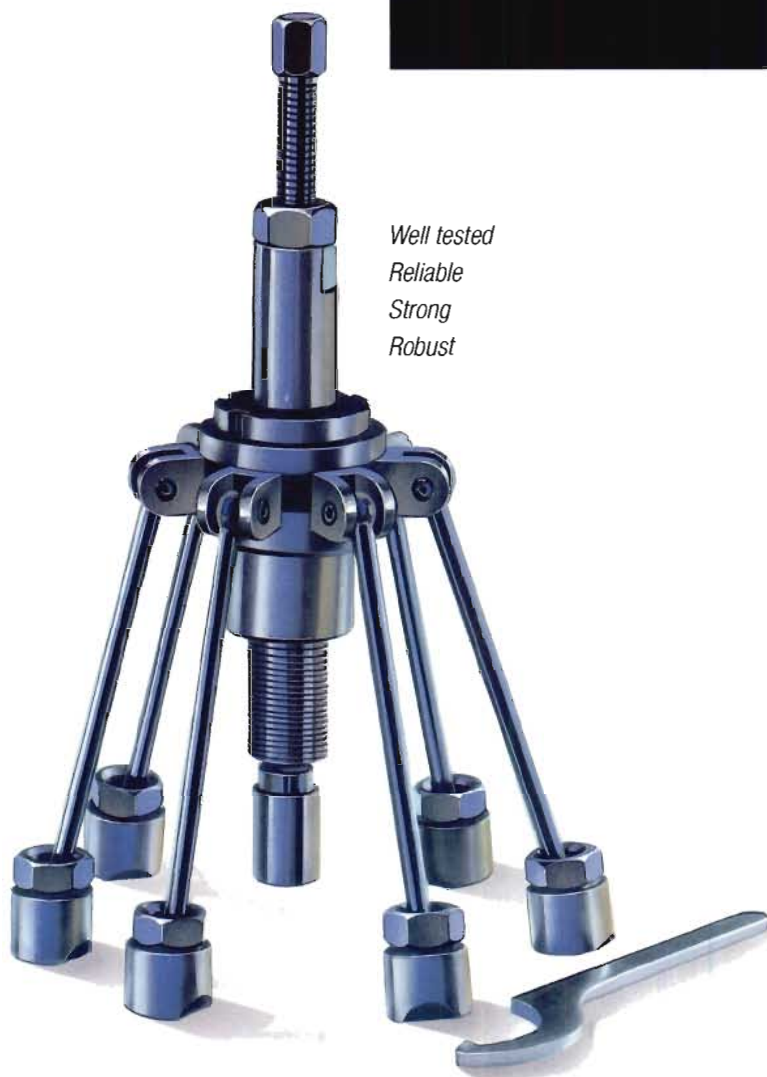
Purchase Order No.	Length		⚖ kg
	mm	inch	
49-105	100	3.94	0,20
49-205	100	3.94	0,35
49-305	100	3.94	0,65
49-405	100	3.94	0,65

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 Phone 07322/6006
 Fax 07322/6008

Universal Hub Puller "EFA" No. 51



*Well tested
Reliable
Strong
Robust*

To remove hubs and brake drums from vehicles which have wheel lugs or studs.

The arm length is designed for a maximum bolt circle of 14.6" (370 mm). The standard puller can be used for cars and trucks with maximum 5/8" (16 mm) stud diameters.

For larger bolts up to a maximum stud diameter of 1" (26 mm) a set of additional truck sleeves is required. The truck sleeves are delivered only on request.

For easy removal of often very tight sitting hubs the puller is supplied with a hydraulic spindle. The hydraulic system is actuated by turning the hexagon spindle building up an internal pressure of approximately 43000 lbs (200 kN).

As it is the case with any hydraulic support work is made easier and the spindle is protected as during work the removing forces only act on the static thread flanks.

Any number and position of the gripping arms may be used.

Hydraulic spindle made of heat-treated chrome vanadium steel.

Puller and spindle burnished.

Purchase Order No.	Description	kg
51-100	Puller with 6 arms, car sleeves, and pin spanner	12,00
51-006	6 truck sleeves	5,10

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Universal Hub Puller No. 58

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Fax 073 22/60 08



For hubs, break drums and similar parts with a pitch circle diameter between 115 mm/4.53" and 240 mm/9.45".

The design of the disk permits the arms to be kept in each position and yet being changed easily in number and position.

The arms are equipped with a bore diameter of 16,5 mm to pick up the wheel bolts.

Puller made of chrome alloy steel, drop-forged, heat-treated, and galvanized.

Spindle burnished.

Purchase Order No.	Number of arms	Weight kg
58-230	3	3,10
58-240	4	3,65
58-250	5	4,15

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Pin Puller No. 59



For extraction of parts with an internal thread such as tapered or cylindrical pins from M4 to M12.

Two puller sizes are offered.
 Extraction is effected simply by moving the impact weight along the sliding bar. Puller size depending on the application.

The system allows to use longer screws

with a DIN912 head thus making possible extraction of pins which are positioned deeply without any problems.

Standard scope of supply:
 Screws M4/M5/M6/M8/M10/ M12 with a thread length of 30 mm and 5 washers.

Other sizes upon request

Purchase Order No.	Impact path mm	Impact path inch	Impact weight kg	⚖ kg
59-090	90	3.54	0,9	1,18
59-300	300	11.81	0,9	1,38

Puller, screws and disks are burnished.

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Nut Splitter No. 39

Screw Extractor No. 38

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Fax 073 22 / 60 08



Nut Splitter

To break sticking nuts up to quality DIN6.

The nut is destroyed by means of the screw which is used as a chisel without damaging the thread.

Screw Extractor

For extraction of broken screws and similar.

Bore a hole into the part. Turn the extractor into the hole and screw off the part.

Extractor made of chrome vanadium steel, supplied as a set in a plastic box.

Purchase Order No.	Opening Ø		For nuts up to	kg
	mm	inch		
39-119	19	0.15	SW17/M10	0,23
39-130	30	1.18	SW27/M18	0,30

Purchase Order No.	Set consisting of	For screws	kg
38-150	5	M3-M18	0,12
38-160	6	M3-M24	0,22

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SCHREM

Spindle

No. 23-1...

Spindle Adapter

No. 23-5...

Spindle Adapter

No. 23-6...



Spindle Adapter (flat) No. 23-5...
suitable for

Purchase Order No.	Length mm inch	Diameter mm inch
Thread M14x1,5		
23-51402518	25 0.98	18 0.71
Thread M20x2 und M22x2		
23-52207022	70 2.75	22 0.866
23-52212022	120 4.72	22 0.866
Thread M30x2		
23-53014030	140 5.51	30 1.18
23-53026030	260 10.23	30 1.18

Spindle Adapter (90°) No. 23-6...
suitable for

Purchase Order No.	Length mm inch	Diameter mm inch
Thread M14x1,5		
23-61402514	25 0.98	14 0.55
23-61402520	25 0.98	20 0.79
23-61402530	25 0.98	30 1.18
Thread M20x2 und M22x2		
23-62203520	35 1.37	20 0.79
23-62203530	35 1.37	30 1.18
23-62203540	35 1.37	40 1.57
Thread M30x2		
23-63016050	160 6.30	50 1.97
23-63028050	280 11.02	50 1.97

Spindle Nr. 23-1...

Purchase Order No.	Overall length
Thread M10	
23-11015140	140 mm / 5.51"
23-11015170	170 mm / 6.69"
Thread M14x1,5	
23-11415160	160 mm / 6.30"
23-11415180	180 mm / 7.08"
23-11415225	225 mm / 8.85"
Thread M20x2	
23-12020250	250 mm / 9.84"
Thread M22x2	
23-12220300	300 mm / 11.81"
23-12220350	350 mm / 13.78"
Thread M30x2	
23-13020400	400 mm / 15.75"

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Ball Joint Ejector

No. 43-100

Studs Puller

No. 60-000

Ball Joint Ejector

No. 43-200

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Ball Joint Ejector

For quick and easy dismounting of ball joints. Many uses are possible thanks to the conical fork opening and the infinitely adjustable clamping range. Ejector is drop-forged and galvanized, the spindles are burnished.

Purchase Order No.	Fork opening mm inch	Clamping range max. mm inch	ΔΔ kg
43-100	18-22 0.71-0.87	50 1.87	0,75

Studs Puller

For stay-bolt turning in and out and similar uses. Wide clamping range despite the small size. Because of the knurled clamping disk which is arranged at the bottom even short bolts can be gripped. The clamping disk is turned via 22 mm hexagon. Made of heat-treated and galvanized chrome vanadium steel. Clamping disk burnished.

Purchase Order No.	Clamping Range mm inch	ΔΔ kg
60-000	5-20 0.2-0.87	0,36

Ball Joint Ejector

For dismounting of special ball joints. The distance between the swivel point and the pressure spindle makes work easier. The conical fork opening protects the sealing sleeve. Puller is drop-forged and galvanized, the spindle is burnished.

Purchase Order No.	Fork opening mm inch	Clamping range mm inch	ΔΔ kg
43-200	20 0.87	50 1.97	1,00

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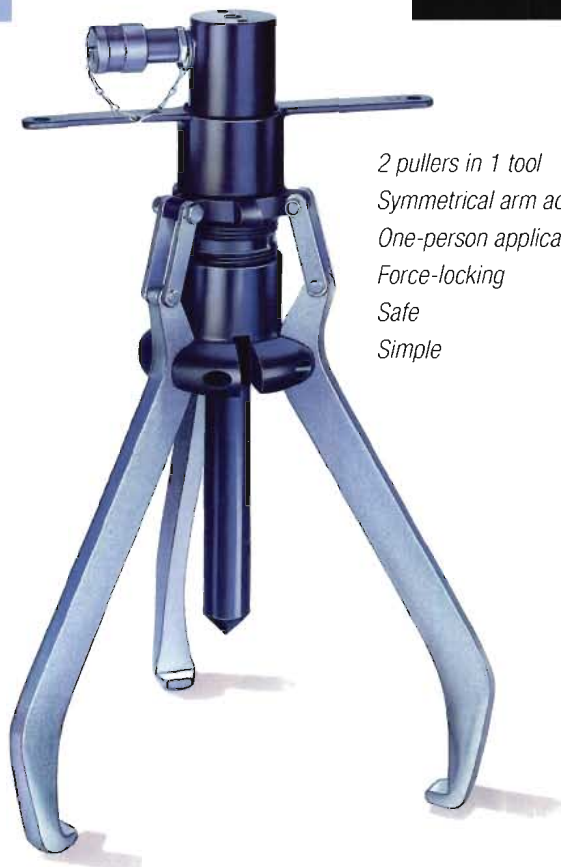
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Two-Arm and Three-Arm Puller

No. 68

In connection with single-acting
multipurpose hydraulic cylinder
and hydraulic pump
Working pressure: 700 bar max.



2 pullers in 1 tool
Symmetrical arm adjustment
One-person application
Force-locking
Safe
Simple

One of the 3 arms is fixed by the manufacturer. The other arms are screwed and can be moved as required in individual cases making possible quick and easy adaptation to such requirements.

The clamping width is adjusted by simply turning the symmetrically arranged handles at the adjusting nut. The arm movement is taken over by the two oppositely directed threads so that the complete spreading range is covered with just a few turns.

Such design generally allows mounting of the removing device without a hydraulic cylinder as the puller is safely fixed on the part to be removed by means of the adjusting nut. Also we took care that the arms are fixed during the removing procedure and do not open inadvertently during work.

To make work easier a suspension aid is arranged on the fixed arm.

The next step may be to separately screw in the cylinder required for removal which actively helps to make work easier as the weights to be moved are kept as low as possible.

Removing arms made of heat-treated chrome alloy steel, which is also a reason why this slim as well as space and weight saving arm design is possible.

Galvanized removing arms.
Other parts are burnished.

Two-Arm and Three-Arm Puller No. 68

In connection with single-acting
multipurpose hydraulic cylinder
and hydraulic pump
Working pressure: 700 bar max.

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As per standard the pullers are equipped with an inch thread connection for the hydraulic cylinder.

However, upon request, types with metric thread connections can be supplied as well.

For extension of the hydraulic cylinder piston rod with a small stroke thrust pieces No. 70-1 with 90° point can be delivered.

(Details see page 1.26)

Purchase Order No.	↔		↑		Thread of hydraulic cylinder	Draw-off force	
	mm	inch	mm	inch		kN	lbs
68-0300	300	11.81	300	11.81	2 1/4"-14 UN	100	21 500
68-0450	450	17.71	450	17.71	3 3/8"-12 UN	250	53 750
68-0600	600	23.62	600	23.62	5"-12 UN	500	107 500

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Special Bearing Puller Nr. 64

In connection with single-acting
multipurpose hydraulic cylinder
and hydraulic pump
Working pressure: 700 bar max.



*Many uses
Easy handling
Reliable
Solid*

For removal of grooved ball bearings, detachable ball journal bearings, self-aligning ball bearings, tapered-roller bearings via the rollers at the wide or sometimes narrow internal bearing collar as well as of other round parts.

The basic tools No. 64-801 and 64-901 are a new development. Their threaded cylinder connection is 3 $\frac{5}{16}$ " - 12 UN, and they are mostly used with a 250 kN hydraulic cylinder. Connections for other cylinder types or threads upon request.

To minimize the dead weight of the basic tools great importance has been attached to a short structure to make sure the weights to be moved are as low as possible, which makes work a lot easier. Another advantage making work easier is that this design generally allows mounting of the removing device without a hydraulic cylinder.

The remover is fixed safely on the bearing to be removed by means of the adjusting nut.

The next step is to screw in the cylinder required for removal.

The collets (see page 1.18) are screwed onto the top part. The collets are closed by means of the knurled adjusting nut, which is pivoted and connected with the clamping sleeve thus drawing the collet into the clamping sleeve in axial direction only. This makes it a lot easier to fix the puller free from play on the bearing to be removed.

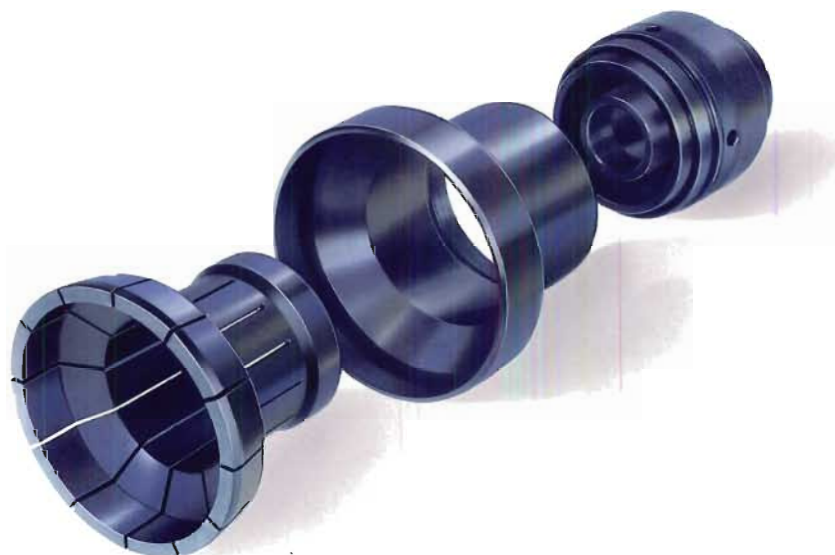
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Special Bearing Puller Nr. 64

In connection with single-acting
multipurpose hydraulic cylinder
and hydraulic pump

Working pressure: 700 bar max.

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Basic tool specifications

Purchase Order No.	Bore-hole Ø		External Ø		Overall length		kg
	mm	inch	mm	inch	mm	inch	
64-801	102	3.94	130	5.11	102	3.94	4,2
64-901	122	4.80	150	7.09	102	3.94	5,6

Since for bearings with a bore-hole diameter of more than 100 mm the external bearing diameters can vary a lot the clamping sleeve must be adapted to the removing collets to guarantee optimum function. This is the reason why in this case no clamping sleeve is included in the scope of delivery of the basic tool as it is usually standard. The accessory clamping sleeve of the collets is indicated in the following table.

Basic tool No. 64-801 and No. 64-901, burnished.

Collets see catalogue sheet 1.18.

List of clamping sleeves:

Purchase Order No.	External Ø mm	inch	For collets No.
64-8061	120	4.72	64-8106, 64-8107 64-8108, 64-8114
64-8062	140	5.51	64-8101, 64-8109 64-8110
64-8063	160	6.30	64-8102
64-8064	180	7.08	64-8103, 64-8104 64-8113, 64-8115
64-8065	200	7.87	64-8105
64-8067	220	8.66	64-8111, 64-8112
64-9061	140	5.51	64-9103, 64-9104 64-9105, 64-9108 64-9110, 64-9111
64-9062	160	6.30	64-9112
64-9063	180	7.08	64-9102

For inserts the bearing of which is deeply set on a shaft the clamping depth can be increased by means of extensions in steps of 100 mm / 3.94" for collets and clamping sleeve.

Extension set:

100 mm / 3.94", for collets and clamping sleeve

Purchase Order No.	Suitable for basic device	kg
64-805	64-801	2,4
64-905	64-901	2,7

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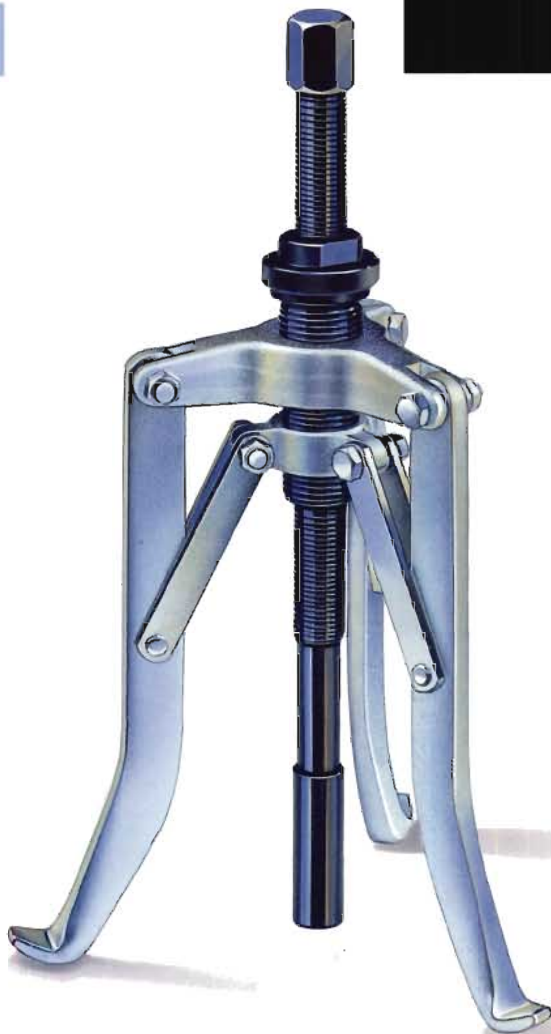
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External and Internal Puller

No. 53-231
MAN



The extractor can be converted to a puller.

It has been developed in co-operation with MAN for extraction of sealing rings of external planetary axes. The arm design was specified on the basis of these requirements. The clamping width is adjusted by turning the knurled disk which is arranged on top of the upper star. This disk is part of the adjusting cylinder with two counter-directed threads. The two stars are moved thanks to this arrangement thus covering the complete spreading range with just a few turns.

To make possible many uses of this extractor the arms can be exchanged.

Depending on the requirements stronger forces than for extraction of a sealing ring are mostly necessary for removing. Therefore the arms No. 52-23008 should always be used for this work.

The spindle is equipped with an attachable spindle adapter.

Puller arms made of heat-treated chrome vanadium alloy steel, which is also a reason why this slim shape is possible.

Puller galvanized.
Spindle burnished.

Purchase Order No.	External puller				Internal puller				kg
	mm	inch	mm	inch	mm	inch	mm	inch	
53-231	20-230	0.078-9.055	150	5.90	135-280	5.31-11.02	145	5.71	4,60

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Hydraulic King-Pin Puller No. 87-G40 DAIMLERCHRYSLER LKW

ALBERT SCHREM
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Phone 0 73 22 / 60 06
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The hydraulic king pin puller has been developed in co-operation with Daimler-Chrysler. It is used for example for extraction of the king pins of the AL7 front axles.

The extractor with the enclosed hydraulic system can be used at whatever location without requiring a separate hydraulic unit. Handling is very easy. The king pin puller is positioned via the feed rod (M24 x 1.5 thread). The feed rod is screwed into the king pin up to the stop.

Alternate turning of the setscrews by means of a change-over ratchet actuates the hydraulic system and the king pin is extracted. After completion of the extraction procedure the setscrews must be turned back to starting position to automatically reset the hydraulic system to zero position via a spring.

The puller is made of heat-treated chrome vanadium steel.
All parts are burnished.

The complete tool consists of:
Hydraulic base body
Feed rod with M24 x 1.5 thread
Removing sleeve
Safety belt

Specifications of hydraulic system:
Force: 120 kN
Stroke: 55 mm / 2.165"

Purchase Order No.: 87-G40
Weight: 9.2 kg

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Hydraulic Ball Joint Ejector No. 43-046



It was necessary to revise this ejector because of modified track rods and steering gears.

The hydraulic system has been supplemented by automatic reset so that, when slackening back the setscrew, the hydraulic system is automatically reset to zero/starting position.

The ball joint ejector consists of a hydraulic base body and various forks which are selected according to the size of the joint head.

It is suitable for a great number of applications in the heavy goods vehicle branch.

Function:

Handling is very easy. Loosen the mechanical nut at the joint head up to

approx. 3 thread courses but do not screw off.

Position the ejector with the fork matching the joint head and manually tighten the knurled nut. Turning the spindle actuates the enclosed hydraulic system, which is installed in the ejector. In this way an axial force is built up which is used to press out the conical part of the joint head.

The axial force of 150 kN / 32250 lbs makes dismounting a lot easier.

Ejector and fork made of heat-treatable steel, heat-treated and burnished.

Indicate the fork you desire when placing an order.

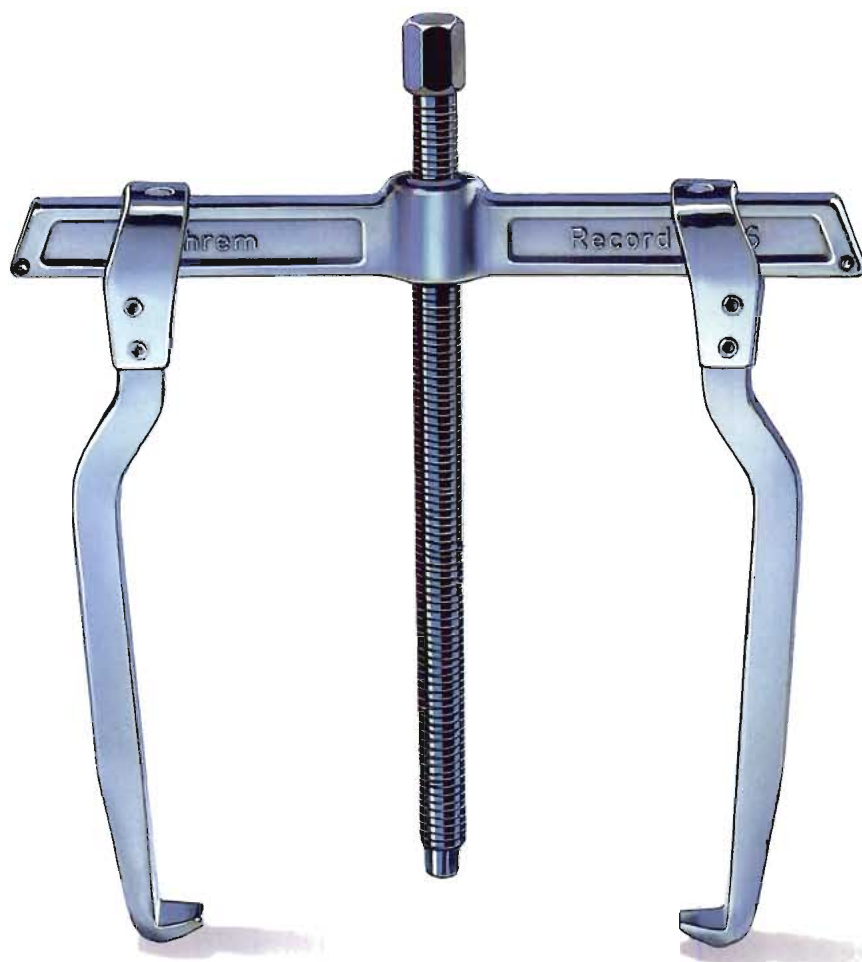
Purchase Order No.	Part name / Fork opening	Weight kg
43-046	Ejector without fork	4,45
43-146	25 mm / 0,98" fork	0,54
43-246	47 mm / 1,85" fork	0,62
43-346	32 mm / 1,25" fork	0,62

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Two-Arm Puller "RECORD"

No. 54-606
IVECO

ALBERT SCHREM
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Phone 0 73 22 / 60 06
Fax 0 73 22 / 60 08



This puller has been designed in co-operation with IVECO.

Thanks to the cranked arm shape and greater clamping depth this two-arm puller can be used to draw off the wheel hubs of various truck types.

The clamping width is simply adjusted by shifting the arms on the traverse. The special, self-locking design prevents the arms from withdrawing during work.

Puller made of heat-treated chrome alloy steel, which is also a reason why this weight-saving shape is possible.

Puller galvanized.
Spindle burnished.

Purchase Order No.	↔		↑		⚖
	mm	inch	mm	inch	kg
54-606	380	14.96	300	11.81	5,00

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Two-Arm Puller "RECORD" NO. 54-212 DAIMLERCHRYSLER PKW



This two-arm puller has been designed for removal of the eccentric DaimlerChrysler intermediate bearing of the drive shaft.

The shape of the arms of this puller, which is per standard in all other respects, has been fully adapted to the bearing to be removed thus making possible perfect removal.

It can be transformed to a universal two-arm puller for external and internal removing by adding the respective arms.

Thanks to the angular design self-locking of the arms, is guaranteed for both applications. In this way withdrawal of the arms during work is excluded

Puller made of heat-treated chrome alloy steel, which is also a reason why this slim as well as space- and weight-saving shape is possible.

Puller galvanized.
 Spindle burnished.

Purchase Order No.	↔		↑		⚖
	mm	inch	mm	inch	kg
54-212	130	5.11	125	4.92	0,90

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Special Bearing Puller No. 64 DAIMLERCHRYSLER

ALBERT SCHREM
Werkzeugfabrik GmbH
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Phone 07322/6006
Fax 07322/6008

Various patents



The puller sets are based on the bearings used by DAIMLERCHRYSLER at present.

The design of the special bearing puller is based on the modular system which guarantees its permanent and cost-saving adaptation according to the technical development of models and units.

Depending on the bearing size the basic tool can be No. 64-400 or No. 64-500. (Details see catalogue page 1.17.)

There are various possibilities to grip the bearing which depend on the bearing type and the location where it is installed.

Principle 1 = The ball bearing is gripped at the internal ring between the balls.

Principle 2 = The tapered roller bearing is gripped at the rollers.

Principle 3 = The tapered roller bearing is gripped at the wide internal ring collar.

Principle 4 = Gripping at the external bearing ring or at a bearing ring.

For each bearing the matching collet is to be used; the bearing No. is indicated on the collet. The collet which is screwed into the basic tool is closed via the left-hand thread of the clamping sleeve thus gripping the part to be removed.

To guarantee perfect function it is important that the puller takes the bearing free from play.

Basic tool

No. 64-400 and No. 64-500:
galvanized, spindle burnished.

Extension

No. 64-405 and No. 64-505:
burnished.

For basic tool No. 64-500

Purchase Order No.	Bearing No.	Removing Principle
63-528	30207/32207	2
63-537	LM300849	2
63-539	32011	2
63-541	LM48548	2
63-542	LM67048	2
63-543	LM503349	2
63-544	M802048	2
63-545	HM89449	2
63-560	FAG546770	3
63-561	FAG319339	3
63-572	HM88649	2
63-579	IR547204	4
63-586	32012	2
63-587	LM67048	2
63-5107	JL69349	2
63-5110	TIM102949	2
63-5117	33109	2
63-5118	33205	2
63-5119	L610549	2
63-5130	INTERNAL RING	4
63-5131	6008	4
63-5135	KHM803149	2
63-5137	33208/32307	2
63-5138	FAG572648	2
63-5147	INA6206/9	1
63-5154	BT1-0042 A	3

For basic tool No. 64-400

Purchase Order No.	Bearing No.	Removing Principle
63-432	30205	2
63-434	30305	2
63-440	FAG577941	4
63-494	TIM14124	2
63-497	L21549	2
63-4133	FAG578469	1
63-4156	INA28/67	1

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Special Bearing Puller FORD



The composition is settled amongst
FORD and ourselves.

The design of the special bearing puller
is based on the modular system which
guarantees its permanent and cost-sa-
ving adaptation according to the techni-
cal development of models and units.

Depending on the bearing size the basic
tool can be No. 63-400 resp.

No. 64-400 or 63-500 resp. 64-500.

(Differences in the basic tools see
catalogue page 1.16 and 1.17.)

There are various possibilities to grip
the bearing which depend on the
bearing type and the location where
it is installed.

Principle 2 = The tapered roller bearing
is gripped at the rollers.

Principle 3 = The tapered roller bearing
is gripped at the wide internal ring collar.

Principle 4 = Gripping at the external
bearing ring or at a bearing ring.

For each bearing the matching collet is
to be used; the bearing No. is indicated
on the collets. The collet which is scw-
ed into the basic tool is closed via the
left-hand thread of the clamping sleeve
thus gripping the part to be removed.



To guarantee perfect function it is
important that the puller takes the bea-
ring free from play. (Manual closing is
easier with basic tool No. 64.)

Basic tools No. 63-400 and No. 63-500
are burnished. Spindle burnished.
Basic tools No. 64-400 and No. 64-500
are galvanized. Spindle burnished.

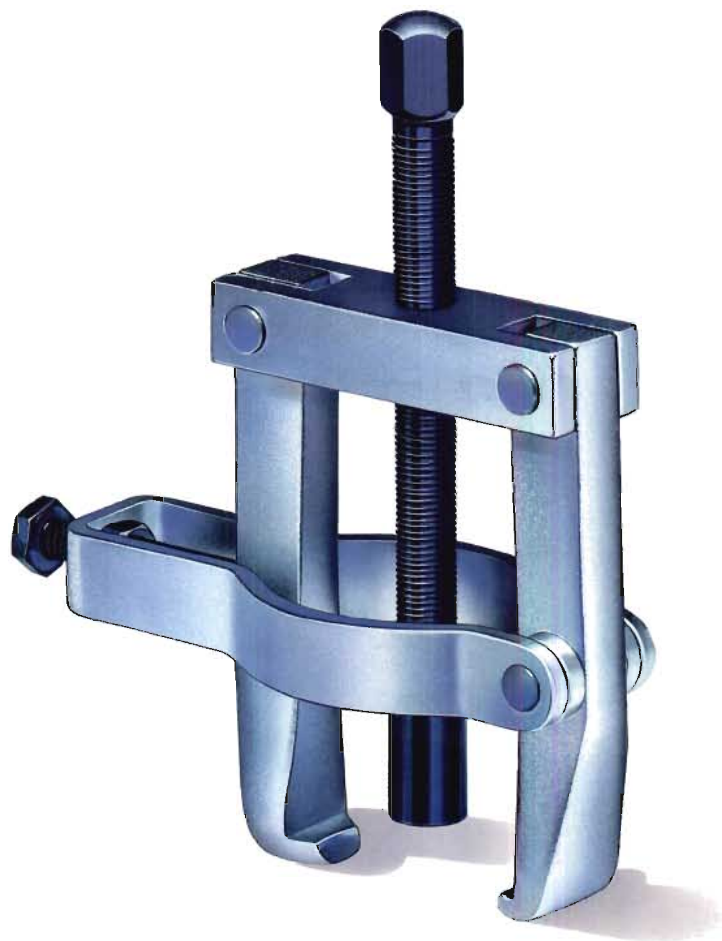
Collets made of heat-treated and
chrome vanadium steel, burnished.

Purchase Order No.	Bearing No.	Removing Principle
64-453	331699	3
	11440378	
63-454	M88043	3
63-455	331139	3
63-493	SKF32205	2
63-495	32006	2
63-4108	NU2205	4
63-4109	BEARING RING	4
63-4119	SKF328696	2
63-4120	SKF328625	2
	SKF329025	
63-4122	SKF328227	4
63-4148	SKF328612	2
63-547	HM88648	2
	SKF331140	

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Two-Arm Bearing Puller "CORA" NO. 47-205 FORD

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For the internal ring of MTX75 gears.

The arms for gripping into the pockets the standard part is equipped with were adapted in co-operation with the FORD service department. With the specially designed arms and the clamp it is possible to loosen the ring prior to the actual removal. With this the bearing bush of the 3rd gear wheel can be removed from the main shaft without any problems.

The puller spindle is equipped with a pivoted thrust piece to avoid damages of the main shaft center during removal.

Puller arms made of heat-treated chrome vanadium alloy steel, which is also a reason why the slim design is possible.

The OTC No. of the two-arm bearing puller is 16-056.

Puller galvanized.
Spindle burnished.

Purchase Order No.	↔		↑		⚖ kg
	mm	inch	mm	inch	
47-205	90	3.54	100	3.94	1,50

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Special Bearing Puller VAG



The composition is depending on the bearings used by AUDI and VOLKSWAGEN.

The design of the special bearing puller is based on the modular system which guarantees its permanent and cost-saving adaptation according to the technical development of models and units.

Depending on the bearing size the basic tool can be No. 63-400 resp.

No. 64-400 or 63-500 resp. 64-500.

(Differences in the basic tool see catalogue page 1.16 and 1.17.) There are various possibilities to grip the bearing which depend on the bearing type and the location where it is installed.

Principle 1 = The ball bearing is gripped at the internal ring between the balls.

Principle 2 = The tapered roller bearing is gripped at the rollers.

For four-point contact bearings:

Grip according to principle 1 first. 2nd half of internal ring according to principle 4.

For each bearing the matching collet is to be used; the bearing No. is indicated on the collet. The collet which is screwed into the basic tool is closed via the left-hand thread of the clamping sleeve thus gripping the part to be removed.

To guarantee perfect function it is important that the puller takes the bearing free from play. (Manual closing is easier with device No. 64.)



Basic tool No. 63-400 and No. 63-500 are burnished. Spindle burnished.

Basic tool No. 64-400 and No. 64-500 are galvanized. Spindle burnished.

Extensions No. 63-405 and No. 64-405 are burnished.

Collets made of heat-treated chrome vanadium steel.

Purchase Order No.	Bearing No.	Removing Principle
63-538	32010	2
63-543	LM503349	2
63-575	TIM78349	2
	SKF330757	
63-576	LM29749	2
63-5107	NP622187	2
63-5155	SKF344/332	2

Purchase Order No.	Bearing No.	Removing Principle
63-412	6206/9	1
	FAG518220	
63-414	6304	1
63-415	6305/7	1
63-417	6306/8	1
63-425	FAG533365	1
	SKF362379	
63-432	25747	2
	45449	
63-433	30206	2
	SKF328236	
	NP282175	
63-434	30305	2
63-436	32005	2
63-463	FAG518220	4
63-488	6305/8	1
	FAG563466	
	SKF311351	
63-489	FAG633370	1
63-495	32006X	
	NP765903	
	NP946363	
63-4119	SKF328626	2
	SKF328627	
	SKF329050	
63-4148	SKF328612	2
63-4159	TIM06536	2
63-4100	TIM10240	2

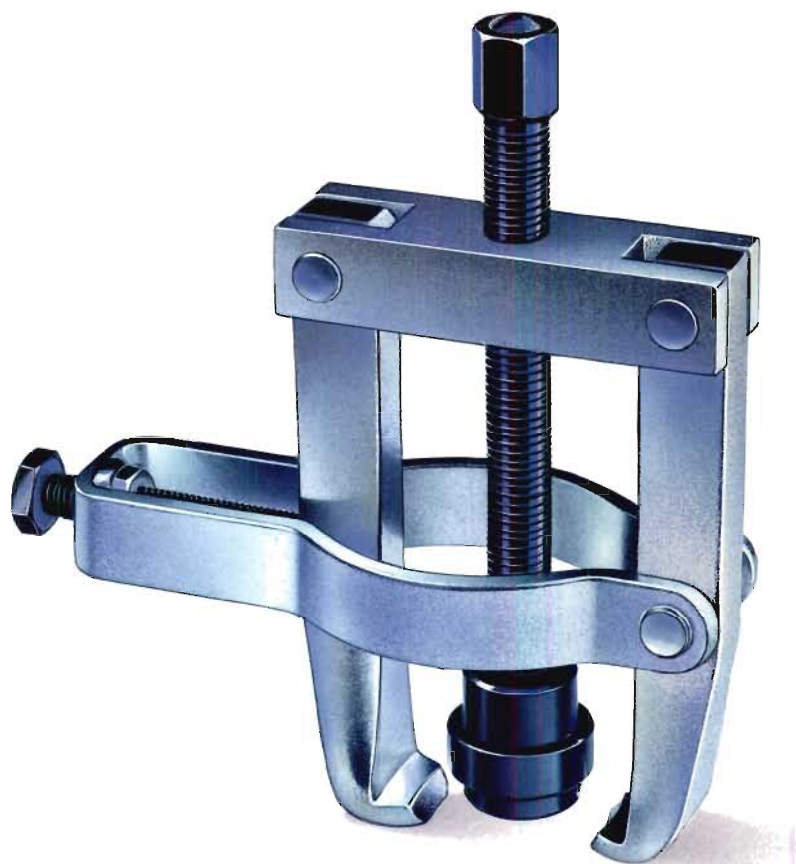
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Two-Arm Bearing Puller "CORA"

Nr. 47-201
VAG

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For removal of the internal bearing ring when changing the front wheel bearing of VAG vehicles.

With the specially designed arms and the clamp it is possible to loosen the bearing or bearing ring to be drawn off prior to the actual removal. The bearing is removed only when taken by the maximum face of the arms.

The spindle is equipped with a pivoted thrust piece to facilitate centering and to avoid damages of the wheel hub center.

Puller arms made of heat-treated chrome vanadium alloy steel, which is also a reason why the slim design is possible.

Puller galvanized.
Spindle burnished

Purchase Order No.	↔		↕		⚖ kg
	mm	inch	mm	inch	
47-201	90	3.54	100	3.94	1,60

Technical data subject to change 9.99

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Multi Arm Puller "COMBI" No. 57-036 VW/BOSCH



We have designed this 3-arm puller in co-operation with VW.

It is recommended by VW and BOSCH for the repair of the BOSCH 45 A and 65 A three phase generators.

For dismounting of the generator rotor the holding plate of the bearing must be removed first.

However, the puller can take the holding plate only at the five openings. Therefore an asymmetrical arrangement of the puller arms is required.

The COMBI multi-arm puller comes up to such requirements. Since it is important that the grips of the arms bite the holding plate of the bearing properly we have adapted them to the part diameter unlike the standard ones.

Grips made of heat-treated chrome alloy steel.

Puller galvanized.
 Spindle burnished.

Purchase Order No.	↔		↑		⚖
	mm	inch	mm	inch	kg
57-036	60	2.36	70	2.76	0,78

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Universal & Specialized Pullers

Schrem Puller Brochure #	Number of pages	Product Description
1.10	2	Two-Arm Puller "RECORD" No.54
1.11	1	Two-Arm Puller No. 46-0
1.11	1	Battery Terminal Puller No. 46-200 Two-Arm Bearing Puller "CORA" No.47
1.12	2	Three-Arm Puller "MOMENT" No. 52
1.13	2	Three-Arm Puller "DREMO" No.53
1.14	1	Hydraulic Spindle No.44
1.14	1	Hydraulic Pressure Tool No.44
1.15	3	Ball Bearing Puller "BARENKLAUE" No. 56
1.15	2	Multi-Arm Puller "COMBI" No.57
1.16	2	Special Bearing Puller Basic Tool No. 63
1.17	2	Special Bearing Puller Basic Tool No. 64
1.18	4	Collets for Special Bearing Puller To be used with: - Basic Tool No.63 - Basic Tool No.64
1.19	2	Counterstay No. 62
1.19	2	Internal Puller No.62-0
1.19	2	Striking Puller No. 59
1.20	2	Bearing Splitter No. 48
1.20	2	Puller No. 49
1.21	2	Universal Hub Puller "EFA" No. 51
1.22	1	Pin Puller No. 59
1.22	1	Nut Splitter No. 39
1.22	1	Screw Extractor No. 38
1.23	1	Spindle No. 23-1...
1.23	1	Spindle Adapter No. 23-5...
1.23	1	Spindle Adapter No. 23-6...
1.23	1	Ball Joint Ejector No. 43-100
1.23	1	Stads Puller No. 60-000
1.23	1	Ball Joint Ejector No. 43-200
1.24	2	Two-Arm and Three-Arm Puller No. 68
1.25	2	Special Bearing Puller Nr. 64
2.10	1	External and Internal Puller No 53-231 MAN
2.10	1	Hydraulic King-Pin Puller No. 87-640 DaimlerChrysler LKW
2.11	1	Hydraulic Ball Joint Ejector No. 43-046
2.11	1	Two-Arm Puller "RECORD" No. 54-606 IVECO
2.12	1	Two-Arm Puller "RECORD" No. 54-212 DaimlerChrysler PKW
2.12	1	Special Bearing Puller No.64 DaimlerChrysler
2.13	1	Special Bearing Puller FORD
2.13	1	Two-Arm Bearing Puller "CORA" No. 47-205 FORD
2.14	1	Special Bearing Puller VAG
2.14	1	Two-Arm Bearing Puller "CORA" Nr. 47-201 VAG
2.15	1	Multi Arm Puller "COMBI" No. 57-036 VW/BOSCH