



Pullers



Standard Pullers - No. 10 2-arm mechanical Type



pulling legs, drop forged, in one piece. therefore guaranteed non bending even by extremely hard work. for swift and safe removal of wheels of any description, gears, races, ball bearings, pulleys etc.

Art. No.	size (mm)	size (mm)
		
10/1	15-85	100
10/1A	15-125	100
10/2	20-160	150
10/2A	20-200	150
10/3	40-250	200
10/3A	40-350	200
10/4	40-530	200





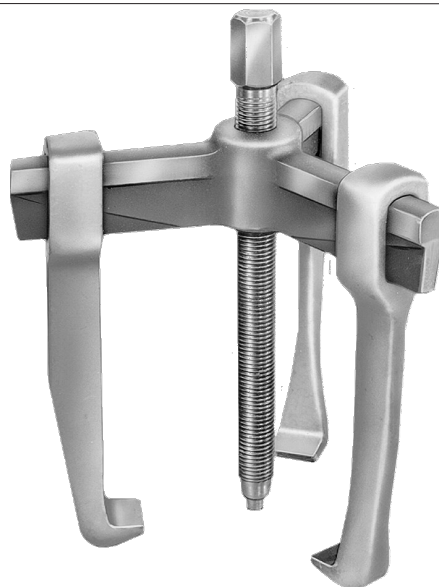
Standard Pullers - No. 13 3-arm mechanical Type

strong triple grip puller with parallel movable legs. can be used for external and also for internal work by simply turning pulling legs. triple grip puller cannot tip over even by extreme use.

important notice: pulling legs, extensions and all other equipment of standard twin grip pullers can be used in conjunction with our

No. 13 triple grip pullers.



Art. No.	size (mm)	size (mm)
		
13/1A	15-120	100
13/2	20-160	150
13/2A	20-220	150





Universal Pullers - No. 16/17

strong universal triple grip puller with parallel movable legs and large spread. can be used for inside or outside operations. the triple grip puller cannot tip over even by extreme use.

2-arm mechanical type

Art. No.	size (mm)	size (mm)
		
16/1	25-80	100
16/1A	25-130	100
12/2	50-160	150
16/2A	60-200	150
16/3	80-250	200
16/3A	80-350	200
16/4	110-250	200
16/5	170-640	225

3-arm mechanical type

Art. No.	size (mm)	size (mm)
		
17/1	25-80	100
17/1A	25-120	100
17/2	50-160	150
17/2A	60-200	150
17/3A	100-380	200
17/4	120-250	200
17/5	120-640	200



Pullers





Universal Pullers - No. 20/21





strong universal triple grip puller with parallel movable legs and large spread. can be used for inside or outside operations. the triple grip puller cannot tip over even by extreme use.

2-arm mechanical type

3-arm mechanical type

Art. No.	size (mm)	size (mm)
		
20/1	20-150	80
20/2	40-200	130

Art. No.	size (mm)	size (mm)
		
21/1	20-150	80
21/2	40-200	130







Universal Pullers - No. 22/23

of sturdy yet well balanced construction for all types of application, simply to operate, very wide range. self-locking system prevents slipping of jaws. more pressure by forcing screw automatically increases grip of jaws. mechanical centre screws are interchangeable with hydraulic rams.

2-arm mechanical type

3-arm mechanical type

Art. No.	size (mm)	size (mm)
		
22/01	15-85	85
22/0	20-120	120
22/1	20-165	145
22/2	35-230	220
22/3	50-300	270
22/4	50-400	400
22/5	50-500	500
22/6	55-650	500

Art. No.	size (mm)	size (mm)
		
23/01	15-85	85
23/0	20-120	120
23/1	20-165	145
23/2	35-230	220
23/3	50-300	270
23/4	50-400	400
23/5	50-500	500
23/6	55-650	500



Universal Puller Sets - No. K22/60

this illustration shows separator with universal puller separating two closely placed gear wheels. they can then easily be pulled off from the shaft.

set consisting of each 1 pc in metal case:

Universal puller

Separators

Cross-beam

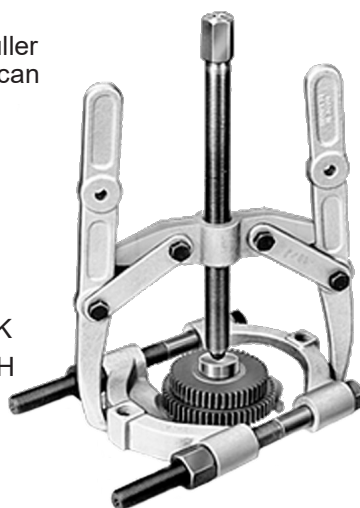
1 Pulling Leg, compl.

No. 22/1, 22/2

No. 60/1, 60/2

No. 23/1K, 23/2K

No. 22/1H, 22/2H



Pullers











Heavy Pullers - No. 24/25/26/27 mechanical type



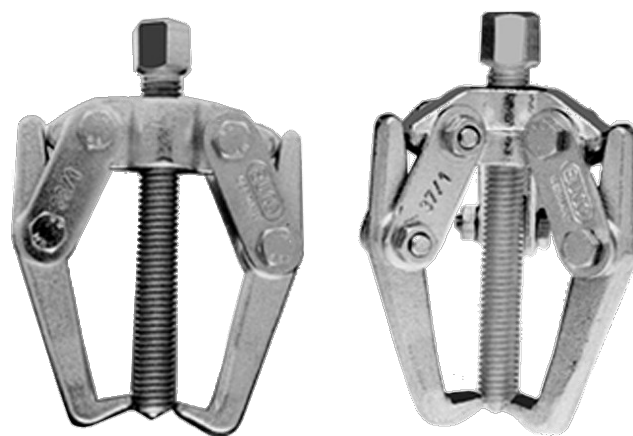
exceptionally strong design combined with large capacity. universal use as pulling legs are interchangeable. a puller with 5 legs can easily be made into a 4-, 3- or 2-leg puller. in case of spoke wheels it is advisable to insert legs between spokes on the hub. our powerful hydraulic pullers are specially recommended for all industrial maintenance and repair work.







2-arm mechanical type			3-arm mechanical type			4-arm mechanical type			5-arm mechanical type		
Art. No.	size (mm)	size (mm)	Art. No.	size (mm)	size (mm)	Art. No.	size (mm)	size (mm)	Art. No.	size (mm)	size (mm)
											
24/1	50-350	325	25/1	60-350	325	26/1	70-350	325	27/1	80-350	325
24/2	60-500	500	25/2	60-500	500	26/2	70-500	500	27/2	80-500	500

Pullers - No. 36/37

a small very handy inexpensive puller designed for any light work. the unique self-locking device enables arms to be pressed tightly against parts to be pulled.





2-arm mechanical type			3-arm mechanical type		
Art. No.	size (mm)	size (mm)	Art. No.	size (mm)	size (mm)
					
36/1	10-55	40	37/1	10-55	40
36/2	10-75	65	37/2	10-75	65

Battery Terminal Pullers - No. 40

a small very handy puller for battery service, electrical appliances, small motors, ball bearings, gears, etc. the ideal -one hand- application allows swift safe and easy use. automatic clamping of pulling legs by spring pressure. once in position no slipping-off possible.



2-arm mechanical type		
Art. No.	size (mm)	size (mm)
		
40/1	10-55	45
40/2	10-70	65

Pullers





Pullers - No. 92/93

handy little pullers with self-centering function and automatically adjusting pulling legs. The higher the increasing pressure of the spindle, the firmer the clamping pressure of the pulling legs.



2-arm type

3-arm type

Art. No.	size (mm)	size (mm)	Art. No.	size (mm)	size (mm)
					
92/1	10-60	45	93/1	10-60	45
92/2	10-70	65	93/2	10-70	65
92/3	10-100	80	93/3	10-100	80



2-arm type





3-arm type

Pullers - No. 94/95

handy little pullers with self-centering function and automatically adjusting pulling legs. the higher the increasing pressure of the spindle, the firmer the clamping pressure of the pulling legs.

2-arm type

3-arm type

Art. No.	size (mm)	size (mm)	Art. No.	size (mm)	size (mm)
					
94/1	10-100	80	95/1	10-100	80
94/2	10-120	120	95/2	10-120	120
94/3	20-160	160	95/3	20-160	160
94/4	20-220	200	95/4	20-220	200



2-arm type

3-arm type

Ball Joint Pullers - No. 180

for easy and swift removal of ball pins from the tapered housing on steering arms.



Art. No.	opening (mm)	width (mm)	height (mm)
180/2	18	37	37
180/3	23	45	45
180/4	29	55	60
180/5	39	70	80
180/6	46	90	100

Ball Joint Puller - No. 183

very handy, many sided and specially suited for where lack of space forbids entry of direct models



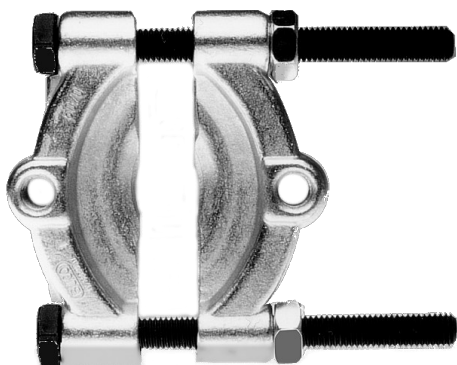
Art. No.	opening (mm)	height (mm)
183/1	22	20-50

Pullers & Separators



Separators - No. 60

indispensable for the removal of races, bearings, gear wheels etc. from hubs, shafts, where space is limited. the flat sides of separator halves give ample all round support.



Art. No.	opening (mm)	for use with pulling units
60/0	5 - 60	B10/1 + B10/1A. 62/0
60/1	12 - 75	B10/1A. 62/1
60/2	22 - 150	B10/2 + B10/2A. 62/2
60/3	30 - 155	B10/3 + B10/3A. 62/3
60/4	30 - 200	B10/3A. 62/4
60/5	40 - 280	62/5

Pulling Units - No. B10

for separators and thread adaptors



Art. No.	width (mm)	length / mm	for use with separators
B10/1	100	110	60/0
B10/1A	130	110	60/1
B10/2	165	185	60/2
B10/2A	205	185	60/2
B10/3	260	260	60/3
B10/3A	355	260	60/3 60/4
B10/4	530	260	60/3 60/4

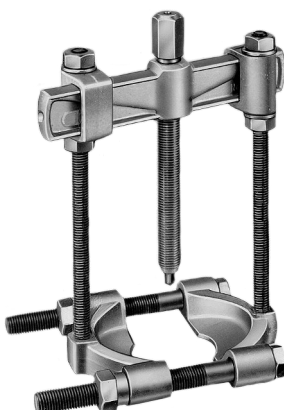
Pulling Units - No. 62

for separators and thread adaptors



Art. No.	width (mm)	length / mm	for use with Separators
62/0	45 - 110	110	60/0
62/1	55 - 140	155	60/1
62/2	60 - 215	200	60/2
62/3	85 - 295	315	60/2
62/4	120 - 350	305	60/3 60/4
62/5	140 - 435	320	60/5

Sets: Separators No. 60 + Pulling Unit No. B10 mechanical type



Art. No.	opening (mm)	width (mm)
60/0 + B10/1	5 - 60	100
60/1 + B10/1A	12 - 75	130
60/2 + B10/2	22 - 150	165
60/3 + B10/3	30 - 155	260
60/4 + B10/3A	30 - 200	530

Puller & Coil Spring Sets



Puller Sets

in metal case, consisting of:
pulling unit - extension (pair) - separator



Art. No.	contents
K60/0	B10/1 - 60/0 - ZBV/1
K60/1	B10/1A - 60/1 - ZBV/1
K60/2	B10/2 - 60/2 - ZBV/2
K60/3	B10/3 - 60/3 - ZBV/3
K60/4	B10/3A - 60/4 - ZBV/3



Art. No.	contents
K62/0	62/0 - 60/0 - ZBV/1
K62/1	62/1 - 60/1 - ZBV/1
K62/2	62/2 - 60/2 - ZBV/2
K62/3	62/3 - 60/3 - ZBV/3
K62/4	62/4 - 60/4 - ZBV/3



Coil Spring Compressor Sets

for quick and safe mounting or removal of all usual coils. the simple yet safe clamping device avoids the breaking away of the spring while working.

it is advisable to use 3 spring compressors simultaneously evenly placed. this will avoid sagging of spring.

long and short spindles are interchangeable.

Art. No.: 909/1	- 2 pcs.	size: 200 mm
Art. No.: 909/2	- 2 pcs.	size: 300 mm
Art. No.: 909/3	- 2 pcs.	size: 400 mm

