

Since

FORZA[®]



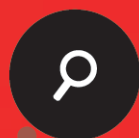
1969

www.falconczech.cz

CATALOGUE

HAND TOOLS

FOR INDUSTRIAL MAINTENANCE



Zástupce pro Českou republiku

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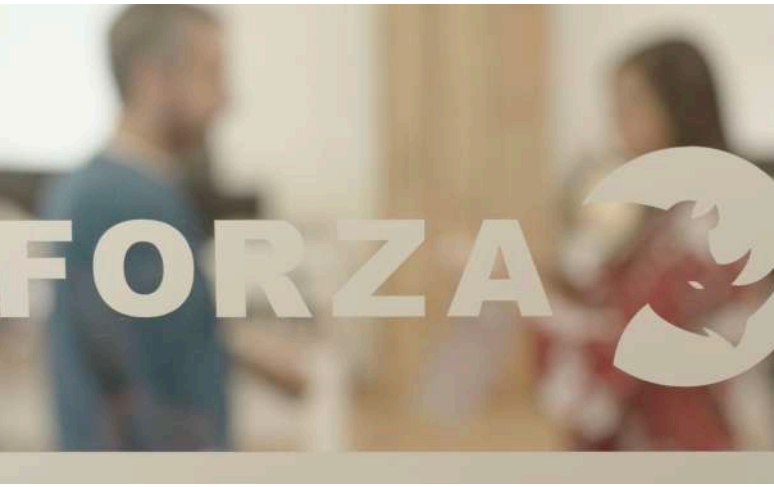


EASY TOOLS

PULLERS

WORKHOLDING





50 YEARS GAINING EXPERIENCE ON DESIGNING AND MANUFACTURING HAND TOOLS

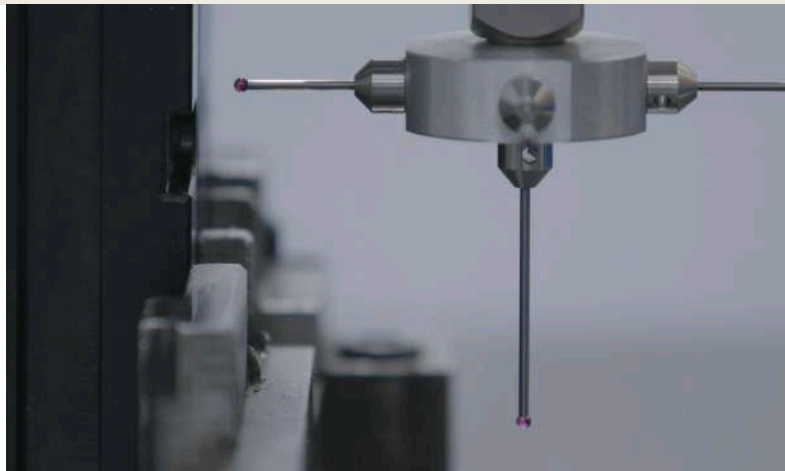
Antonio Sampedro founded Forza, a family owned business pioneer in the Spanish special tools manufacturing market. Mr. Sampedro was not only an entrepreneur but most importantly, he had a passion for metal working combined with a continued thirst for new products and tools and manufacturing process development.

Throughout this time, Forza has been faithful to the values that inspired him.

THE TOP QUALITY OF THE TOOLS IT IS OUR BEST GUARANTEE

50 years banking on quality in design, manufacturing and service. The prestige of our products lies in a strategic focus on innovation, tailor made tools and over the top raw material. Forza is a leading manufacturer of Special tools relied on a team of committed young professional bringing a large breath of experience.

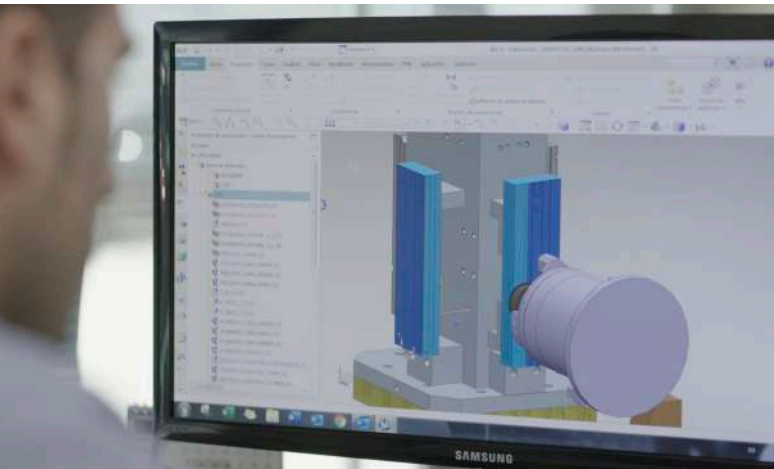
We have a deep sense of quality that it is reflected into a full warranty on all the parts we produce.



“UNLIMITED” MANUFACTURING CAPABILITY OF CUSTOMIZED PRODUCTS.

The enthusiasm and hard work of our I+D department together with Engineering are expressed on our complete catalogue that includes an extensive range of demanded hand tools (specialized on pulling solutions) but also knockout metal punches, Automotive tools and machine vices as well.

Our customers and potential customer's needs are our high priority and we are completely opened for the designing and manufacturing of new customized products.



ENVIROMENTAL SUSTAINABILITY COMPROMISE

At FORZA we proudly follow stringent environmental, energy saving, waste selection and raw material recycling principals. Thanks to our 3 plants, we generate more than 100KW/h annually through our solar panels installation. This figure amounts to approximately 1607 trees/year for carbon dioxide consumption.





STRONG BUSINESS HISTORY





- Sales conditions 6
- Mechanical and hydraulic spindles 10-11
- Point protectors 12

Mechanical pullers

Externals

Fixed jaws pullers	13 to 20
Push pullers and splitters	21 to 26
Oscillating jaws	27 to 33
Self-centering jaws	34 to 37
Multipurpose jaws	45 to 47
Thin jaws and scissors	48 to 53
Ball bearing pullers	54 o 60

Internals

Collets type	61 to 66
Jaws type	67 to 71
Slide hammers and push pullers	72 to 75
Internal sets	77 to 79
Self-centering	80 to 82
Sets	83 to 87
Exhibitors	88 to 90

Hydraulic pullers

Hydraulic parts	95 to 96
Push puller and fixed jaws pullers	97 to 98
Hydraulic spindle pullers	99 to 100
Oscillating and self-centering pullers	101 to 111
Trolley	112

Ball bearing pullers	113
Internals	114 to 117
Sets	118 to 123
Compact spindle	124 to 132

Stud and broken screw extractors

Stud extractors	135 to 136
Stud grooved extractors	137 to 140
Helicoidals	141 to 142

Stud extractor left thread	143
Exhibitor	144
Screw grab and magnetic sockets	144

Knock out punches

Circular knock out punches	147 to 149
VALLCIA	150 to 151
Conduit	153

Hydraulic knock out punches	154 to 157
Square and rectangular punches	156 to 157
Sets and hollow punches	158 to 163

LENOX

Bi-metal hole saws	166 to 167	Jig saw blades	181 to 182
Carbide tipped hole saws	168 to 169	Tube cutters	183
Diamond hole saws	170	Varibits	184
Hole saws sets	171	Neumatic saw blades	184
Hole saws arbors	171 to 172	Cutting oil Forza	184
MetalMax cutt-off	173	Big exhibitor	185
Saw blades	174 to 177	Small exhibitor	186
Hack saw frames and blades	178 to 180		



Clamping tools

Drilling machine vices	190 to 192	Knurling tools	201 to 202
Clamping tools	195 to 197	Tool holders	203 to 205
Bench vices	198	Vices information	206 to 208
Magnetic holders	199	KM	209 to 212
Clamps	199 a 200		

Automotive tools

Oil filter wrenches	216 to 219	Magnetic plate	255
Ball joint separators	220 to 225	Battery terminal pliers	256 to 257
Injectors	227 to 231	Cylinder honing	257
Valves	234 to 238	Windshield wiper puller	259
Silent-Block	239 to 244	Other tools	260 to 261
Hub puller	245 to 248	Body repair tools	262 to 263
Brake pistons	249 to 250	Diagnostic tools	264
Wheel tools	251 to 254		

Other tools

Thread repair tool	268 to 278	Mirrors	294
Files and threading dies	279 to 280	Chain tool for instalation and removal	295
Presses and wrenches	281 to 282	Pliers	296 to 299
Nut splitters	283 to 284	Brake pipes flaring tool	300
Clamps	286 to 290	Pin punches with handle	301
Multipurpose and magnetic holders	291	Pin punches without handle	302
Magnetics	292 to 293		

Prices & confirmations

It will be charged a processing fee of 5 euros if the minimum invoice value of 50 euros is not met.

FORZA offers are subject to confirmation and without obligation.

Return of goods

FORZA is not obliged to accept the return of goods. FORZA shall only take back goods if the goods are current, in their original packaging and resalable. Additionally, FORZA has to consent the return in writing beforehand. These must be returned free of charge.

A credit note for goods returned is made with 85% of the calculated price. Costs for any reprocessing or new packaging shall be deducted additionally. The credit note can only be credited with new deliveries of goods.

Warranty

Lifetime warranty covering material and manufacturing defects

Delivery periods, delivery dates

Periods and deadlines set by FORZA for deliveries and performances always apply only approximately, unless a fixed period or a fixed deadline is expressly assured or agreed.

FORZA Community

Get in touch with us for novelties as well as for sharing how you use our tools or ask for any information.

Grow the Community around you!!!



Download our latest tariff

Here you will find the current price list.

Also in excel format!





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FORZA



MECHANICAL



PULLERS



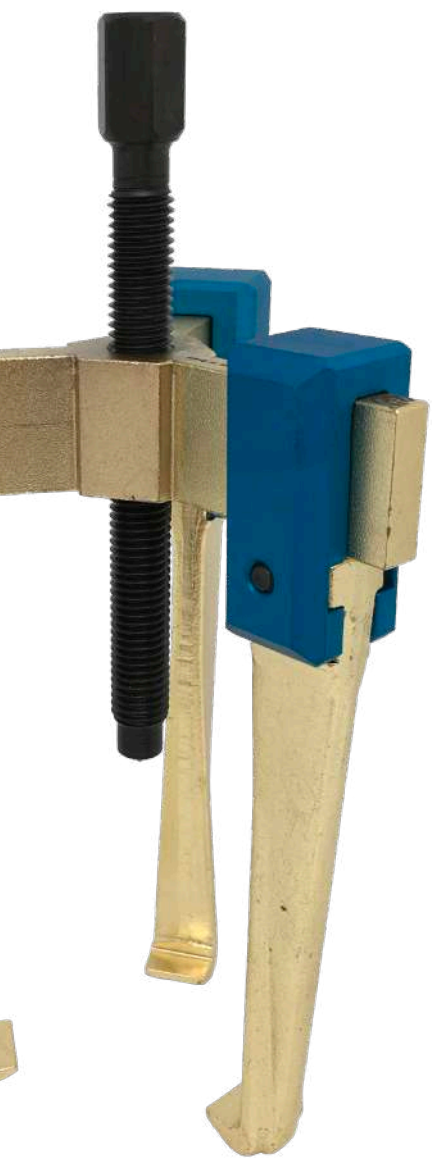
PULLERS:











Designed by FORZA since more than 50 years.

Wide range of mechanical pullers. Specially designed to pull bearings, pulleys, gears, axis and many others mechanical parts. Tools aimed at sectors such as naval, public work, automotive and aeronautic among others.










EXTERNAL PULLERS



	Mechanical spindle	10-11
	Point protectors	12
	Fixed jaws pullers	13-20
	Push pullers and splitters	21-27
	Oscillating pullers	27-33
	Self-centering pullers	34-37
	Reversible jaws puller	42-44
	Multipurpose pullers	45-47
	Thingjaws and scissors	43-45
	Ball bearing pullers	46-47

INTERNAL PULLERS AND EXHIBITORS

	Collets type pullers	61-66
	Internal pullers	67-71
	Slide hammer and push pullers	62-64
	Internal sets	65
	Internal self-centerign pullers	66-72
	Sets	73
	Exhibitors	74-76



MECHANICAL SPINDLES

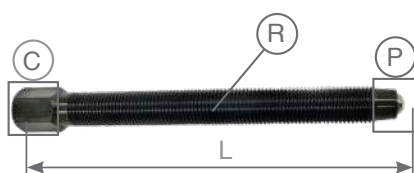
Serie	Puller	R	L	C	Point
150622	1506+	7/16" 14h	141	17	
180530	1805+ / 1750+	9/16" UNC 12h	124	17	
750203	7502 / 7502T	9/16" UNF 12h	207	17	
150603	1506A / 15507A	5/8" UNF 18h	268	20	
750403	7504 / 7504T	5/8" UNF 18h	270,5	20	
181030	1810+	3/4" UNC 10h	272	20	
111003	1110	3/4" UNF 16h	280	14	
111083	H 10Tm: 1110H / 1310TH / 1310THA / KO-10 / CO-10	3/4" UNF 16h	400		
112031	1120 / 1128/ 1509A	1" UNS 14h	398	17	
101883	1018H / 1018LH / 1706H	1" UNC 8h	540		
111883	H 20Tm: 1118H / 1318H / 1318TH / 1318THA / K1-10 / C1-18	1" UNC 8h	670		
113083	H 30Tm: 1130H / 1330H / 1330TH / 1330THA / K2-30 / C2-30	1 1/4" UNF 7h	790		
133031	1330+	1 3/8" UNF 12h	495	35	
135032	1350+	1 3/8" UNF 12h	520	35	
113503	1135	1 1/2" UNF 12h	550	25	
115003	1150	1 5/8" UNF 12h	700	32	
115283	H 50Tm: 1150H / 1352H / 1352TH / 1352THA / K3 / C3	1 5/8" USN 5,5h	975		
119583	H 100Tm: 1395THA / 1195H	2 1/2" UNS 8h	993		
100103	1001	M8 x 1	85	10	
130003	1300+ / 9300+	M8 x 1	92	9	
284203	2841 / 2842 / 2841T / 2842T	M8 x 1,25	97	10	
170103	1700-1	M10 x 1	85		
130103	1301+ / 1401+ / 9301+ / 2641 / 7301+	M10 x 1	110	12	
171603	1716 / 1719 / 1722 / 1724	M10 x 1,25	110		
284303	2843 / 2843T	M10 x 1,5	124	10	
750103	7501 / 7501T	M10 x 1,5	135	11	
160103	1600-1	M10 x 1,5	215	17	
274103	2741 / 2741T	M12 x 1,25	133	14	
100203	1002 / 1003	M12 x 1,25	140	14	
110203	1002L / 1003L / 1102 / 1103 / 1102S / 1103S / 4100	M12 x 1,25	165	14	
900203	9002+	M12 x 1,75	145	14	
172603	1726 / 1728 / 1730 / 1732 / 1735	M14 x 1,5	133		
241003	2410+ / 2415+	M14 x 1,5	158	17	
130403	1304+ / 1404+ / 1904+ / 2642 / 7304+	M14 x 1,5	180	16	
264303	2643	M14 x 1,5	200	17	
160203	1600-2 / 643	M14 x 1,5	235	20	
274303	2743 / 2743T	M14 x 2	182	17	
170203	1700-2 / 1737 / 1740 / 1742 / 1747	M16x 1,50	116		
411003	4105	M16 x 2	220	19	
150922	1509+	M16 x 1,5	218	19	



Serie	Puller	R	L	C	Point
274503	2745 / 2745T	M18 x 1,5	280	⬡ 19	
130703	1307+ / 1407+ / 1408+ / 1907+ 7307+ / 7308+	M18 x 1,5	235	□ 23	
279103	2791	M18 x 1,5	270	⬡ 19	
160303	1600-3	M18 x 1,5	315	⬡ 24	
901003	9010+ / 1760+	M18 x 2,5	230	⬡ 22	
750703	7507 / 7507T	M18 x 1,5	334,5	⬡ 20	
242003	2420+ / 2425+	M20 x 1,5	235	⬡ 22	
101031	1010 / 1010A / 1010L / 1110S / 1115S	M20 x 1,5	255	□ 22	
274803	2748 / 2748T	M20 x 1,5	280	⬡ 22	
131031	1015 / 1115S / 1310+ / 1410+	M20 x 1,5	319	□ 22	
131033	1015HX	M20 x 1,5	319	⬡ 24	
751553	7515 / 7515T	M20 x 1,5	338	⬡ 22	
751030	7510 / 7510T	M20 x 1,5	353	⬡ 22	
101033	1000HX serie	M20 x 1,5	255	⬡ 24	
170303	1700-3	M20 x 2	145	⊥	
912031	9120+ / 9122+ / 9124+	M22 x 2	317	⬡ 26	
170403	1700-4	M26 x 2	160	⊥	
131731	1020+ / 9130 / 9132 / 9134 / 1120S 1128S / 1317+	M27 x 2	377	□ 27	
131733	1000HX serie	M27 x 2	377	⬡ 22	
752553	7525T	M27 x 2	498	⬡ 28	
243003	2430+ / 2435+	M28 x 2	310	⬡ 32	
170503	1700-5	M30 x 2	165	⊥	
550303	5503 / 5504 / 5505	3/4" GAS 14h	220	⬡ 27	
244003	2440+ / 2450+	1" GAS 11h	338	⬡ 35	

- Retractable
- With handle
- Dummy
- Fixed
- With ball

+All versions




FIXED POINT PROTECTOR FOR MECHANICAL PULLERS

When the shaft is not dotted, with fixed point spindles, it is necessary to use a tempered point to protect the puller's spindles.




*Supplied in boxes of 3 units.

Ref.	ØD (External diameter)	Ød (Internal diameter)	H (Height)	
P0001	8	6	12	0,1
P0004	13	10	14	0,1
P0010	20	15	16	0,1

FIXED POINT PROTECTOR FOR HYDRAULIC PULLERS

When the shaft is not dotted, with fixed point spindles, it is necessary to use a tempered point to protect the puller's spindles.




Ref.	ØD (External diameter)	Ød (Internal diameter)	H (Height)	
111037	38	16,5	21	0,1
111837	40	32	17	0,1
113037	44	38	18	0,2
119537	55	45	30	0,5

POINT PROTECTOR

When the shaft is not dotted, with fixed point spindles, it is necessary to use a tempered point to protect the puller's spindles




*Supplied in boxes of 3 units

Ref.	ØD (External diameter)	Ød (Internal diameter)	H (Height)	
1002K9	14	10	14	0,1
4110K9	19	13	20	0,1

POINT PROTECTOR FOR MULTIPLE AND THIN-LEGGED PULLERS

In spindles with fixed point it is necessary to place a hardened point to protect the spindles from the pullers, when the shaft is not pointed.



Ref.	ØD (External diameter)	Ød (Internal diameter)	H (Height)	
180537	20	5	18	0,1
181037	25	8	20	0,1

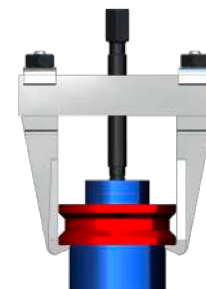


2 JAWS SERIE 1000 1000

Two-jaws rigid puller for external and, occasionally, internal applications. One-piece forged jaws and push-puller body.

Bullet points

- More rigidity in extraction: force is applied directly to the body.
- Faster assembly.
- Short and long jaws available.
- Square head spindle for a better grip with a wrench.
- Big pullers include antigrip bronze nut.

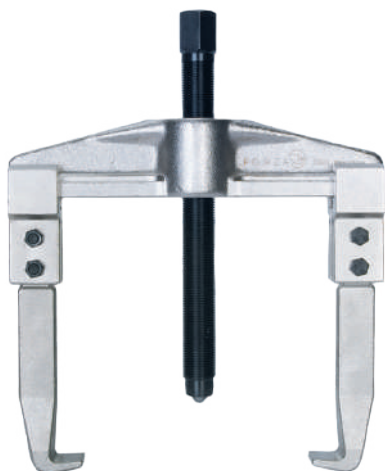


Ref.	SQUARE SPINDLE	Ref.	HEXAGONAL SPINDLE							Repuesto	Accesorio	Repuesto
										Complete jaw	Point protector	Complete threaded bushing
-	-	1001	100103	50	60	12	72	6	0,3	100150	P0001	-
-	-	1002	100203	80	80	25	122	10	1,0	100250	1002K9	-
-	-	1002L	110203	135	80	20	122	10	1,2	100260	1002K9	-
-	-	1003	110203	80	110	25	156	10	1,1	100250	1002K9	-
-	-	1003L	110203	135	110	25	156	10	1,3	100260	1002K9	-
1010	101031	1010HX	101033	160	150	30	210	14	3,3	101050	-	-
1010A	101031	1010AHX	101033	160	195	30	260	14	3,6	101050	-	-
1010L	101031	1010LHX	101033	220	145	30	210	14	4,0	101060	-	-
1015	131031	1015HX	131033	220	205	45	260	14	4,4	101060	-	-
1020	131731	1020HX	131733	260	260	75	345	20	10,5	102050	-	-
1020A	131731	1020AHX	131733	260	395	125	475	20	13,0	102050	-	9130K1
1020L	131731	1020LHX	131733	390	245	75	345	20	13,5	102060	-	9130K1
1020LA	131731	1020LAHX	131733	390	375	125	475	20	15,8	102060	-	9130K1
1020LX	131731	1020LXHX	131733	390	600	215	675	20	23,0	102065	-	9130K1
1020X	131731	1020XHX	131733	260	600	215	675	20	20,0	102055	-	9130K1

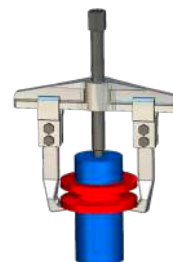


2 JAWS SERIE 2400

2400



Two-jaws rigid puller for external and, occasionally, internal applications.
Forged jaws with clamps and screws and hexagon head spindle.



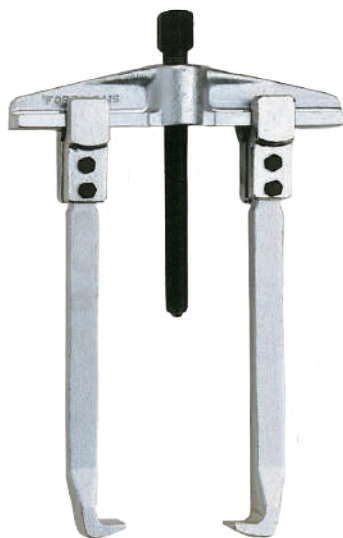
Bullet points

- Most popular on the market.
- Short and long jaws available.
- Ball spindle for better support.

Ref.						Repuesto	
						Spindle	Complete jaw
2410	100	95	30	134	1,1	241003	A90
2415	100	135	35	176	1,3	241003	A90
2420	150	165	40	223	3,5	242003	B150
2425	155	190	35	250	3,6	242003	B150
2430	205	240	50	325	7,7	243003	C200
2435	200	350	60	425	9,0	243003	C200
2440	200	510	90	585	15,0	244003	C200
2450	225	640	140	717	28,4	244003	D225

2 LONG JAWS SERIE 2400L

2400L



Two-jaws rigid puller for external and, occasionally, internal applications.
Forged jaws with clamps and screws and hexagon head spindle.



Bullet points

- Most popular in the market.
- Long jaws.
- Ball spindle for better support.

Ref.						Repuesto	
						Spindle	Complete jaw
2410L	200	95	25	134	1,5	241003	A200
2415L	200	135	35	176	1,5	241003	A200
2420L	305	165	45	223	4,0	242003	B300
2425L	305	190	35	250	4,3	242003	B300
2430L	380	250	60	325	9,1	243003	C375
2435L	380	350	60	425	10,0	243003	C375
2440L	380	510	90	585	16,2	244003	C375
2450L	350	640	140	717	26,0	244003	D350



3 JAWS SERIE 2400T 2400T

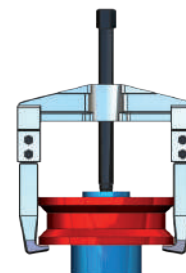


Three-jaws rigid puller for external and, occasionally, internal applications. Forged jaws with clamps and screws and hexagon head spindle.



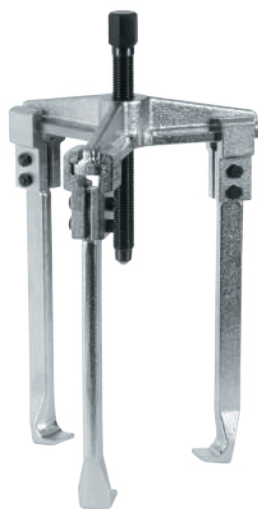
Bullet points

- Most popular on the market.
- Short and long jaws available.
- Ball spindle for better support.
- Improves extraction by having three points of support.



Ref.						Repuesto	
						Spindle	Complete jaw
2410T	100	95	35	134	1,5	241003	A90
2415T	100	135	38	176	1,7	241003	A90
2420T	150	165	42	223	4,7	242003	B150

3 LONG JAWS SERIE 2400LT 2400LT



Three-jaws rigid puller for external and, occasionally, internal applications. Forged jaws with clamps and screws and hexagon head spindle.



Bullet points

- Most popular in the market.
- Long jaws.
- Ball spindle for better support.
- Improves extraction by having three points of support.

Ref.						Repuesto	
						Spindle	Complete jaw
2410LT	200	95	35	134	1,8	241003	A200
2415LT	200	135	38	176	2,1	241003	A200
2420LT	305	165	42	223	5,7	242003	B300



2 JAWS SERIE 9000

9000








Two-jaws rigid puller for external and, occasionally, internal applications
Forged jaws with aluminium clamps and push puller-type body.



Bullet points

- More rigidity in extraction: force is applied directly to the body
- Faster assembly.
- Short and long jaws available.
- Lighter than serie 1000 and 3 jaws possible.
- Brassed plated finish.

Ref.						Spare part		Accessories
						Spindle	Complete jaw	Point protector
9002	80	80	22	121	0,7	900203	900250	1002K9
9002A	80	120	22	161	0,7	900203	900250	1002K9
9002L	130	80	22	121	0,8	900203	900260	1002K9
9002LA	130	120	22	161	0,8	900203	900260	1002K9
9010	160	160	35	221	2,7	901003	901050	P0010
9010A	160	220	35	271	2,8	901003	901050	P0010
9010L	215	160	35	221	3,0	901003	901060	P0010
9010LA	215	220	35	271	3,1	901003	901060	P0010

3 JAWS SERIE 9000T

9000T

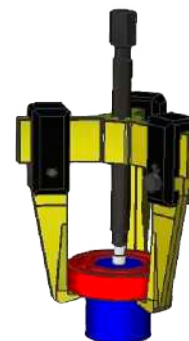







Three-jaws rigid puller for external and, occasionally, internal applications.
Forged jaws with aluminium clamps and push puller-type body.



Bullet points

- More rigidity in extraction: force is applied directly to the body.
- Faster assembly.
- Short and long jaws available.
- Lighter than serie 1000.
- Brassed plated finish.



Ref.						Spare parts		Accessories
						Spindle	Complete jaw	Point protector
9002AT	80	120	22	161	1,0	900203	900250	1002K9
9002LAT	130	121	22	161	1,2	900203	900260	1002K9
9002LT	130	80	22	121	1,1	900203	900260	1002K9
9002T	80	80	22	121	0,9	900203	900250	1002K9
9010AT	160	221	35	271	4,3	901003	901050	P0010
9010LAT	216	221	35	271	4,5	901003	901060	P0010
9010LT	215	160	35	221	4,4	901003	901060	P0010
9010T	160	160	35	221	3,9	901003	901050	P0010



2 JAWS SERIE 9100 9100

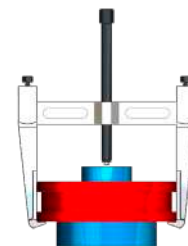


Two-jaws rigid puller for external and, occasionally, internal applications. Monobloc forged jaws. The 9130,9132 and 9134 jaw pullers include an extension part for the spindle.



Bullet points

- Square head spindle for a better grip with a wrench.
- Quick jaw adjustment.
- Lighter than serie 1000 so recommended for larger sizes..
- The 3 largest pullers have bronze nut for protection.



Ref.					Spindle extension		Spare parts		
							Spindle	Complete jaw	Complete threaded bushing
9120	200	210	30	280	No	5,5	912031	912050	-
9120L	380	200	50	280	No	16,5	912031	912060	-
9122	200	260	50	330	No	6,0	912031	912050	-
9122L	380	250	60	330	No	11,0	912031	912060	-
9124	200	340	65	420	No	7,0	912031	912050	-
9124L	380	340	60	420	No	12,0	912031	912060	-
9130	380	340	75	440	Yes	14,0	131731	913050	9130K1
9132	380	455	80	550	Yes	15,5	131731	913050	9130K1
9134	380	555	105	650	Yes	19,5	131731	913050	9130K1

3 JAWS SERIE 9100T 9100T

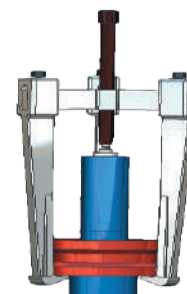


Three-jaws rigid puller for external and, occasionally, internal applications. Monobloc forged jaws.



Bullet points

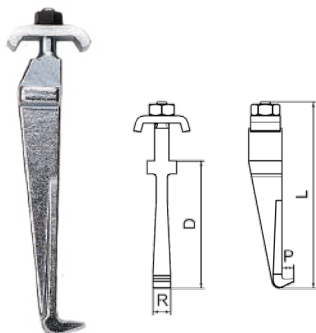
- Square head spindle for a better grip with a wrench.
- Quick jaw adjustment.
- Lighter than serie 1000 so recommended for larger sizes.
- Improved extraction with three points of support.




Ref.						Spare parts	
						Spindle	Complete jaw
9120LT	380	200	30	280	14,6	912031	912060
9120T	200	210	50	280	8,0	912031	912050

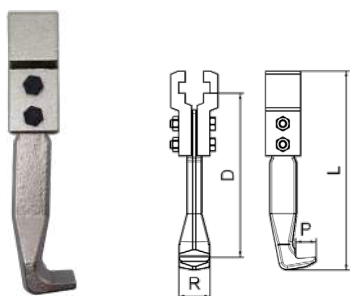



COMPLETE FIX JAW SERIE 1000



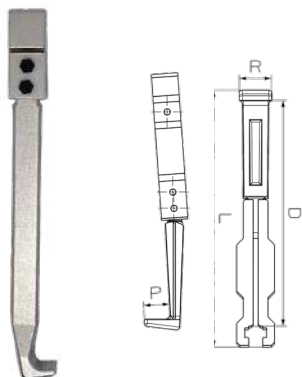
Ref.	Total jaw length (L)	Jaw width (R)	Shovel depth (P)	Useful jaw length (D)	
100150	77,7	9	5	51	0,1
100250	127	12	8	80	0,2
100260	184	15	8	137	0,3
101050	227	26	17	160	0,7
101060	285	28	17	220	1,0
102050	354	36	18,5	260	2,3
102060	455	35	24	390	3,7
102055	354	36	18,5	260	2,3
102065	455	35	24	390	3,7


COMPLETE FIX JAW SERIE 2400-2400T



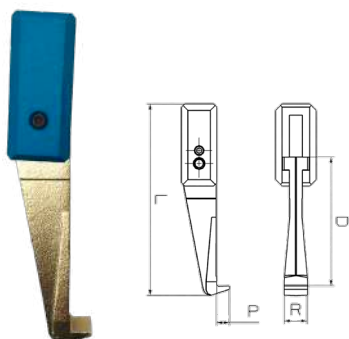
Ref.	Total jaw length (L)	Jaw width (R)	Shovel depth (P)	Useful jaw length (D)	
A90	125	20,5	12,5	100	0,5
B150	187	25	15	155	1,0
C200	255	35	24,5	205	2,0
D225	270	49,5	38	225	5,1


COMPLETE FIX JAW SERIE 2400L-2400LT



Ref.	Total jaw length (L)	Jaw width (R)	Shovel depth (P)	Useful jaw length (D)	
A200	225	20	12,5	200	1,1
B300	335	25	16	305	2,2
C375	429	34,5	25	380	2,4
D350	395	49,5	38	350	7,0

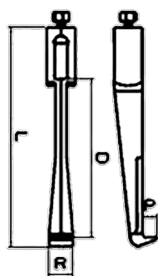
COMPLETE FIX JAW SERIE 9000-9000T



Ref.	Total jaw length (L)	Jaw width (R)	Shovel depth (P)	Useful jaw length (D)	
900250	119	20,5	12,5	80	0,1
900260	169	20	12,5	130	0,2
901050	222	25	15	160	0,6
901060	283	25	16	215	0,8



COMPLETE FIX JAW SERIE 9100-9100T



Ref.	Total jaw length (L)	Jaw width (R)	Shovel depth (P)	Useful jaw length (D)	
912050	283	30,5	16,5	200	1,3
912060	472	35,5	24	380	3,7
913050	472	35,5	24	375	3,6

HEXAGONAL HEAD SPINDLES FOR SERIE 1000



Ref.	R (Thread)	L (Length)	C (Distance between faces)	Head	Point	
131033	M20X1,5	319	24	Hexagonal	Dummy	0,1
100103	M8 x 1	85	10	Hexagonal	Fixed	0,1
100203	M12 x 1,25	140	14	Hexagonal	Fixed	0,1
101033	M20X1,5	255	24	Hexagonal	Dummy	0,1
110203	M12 x 1,25	165	14	Hexagonal	Fixed	0,1
131733	M27X2	377	28	Hexagonal	Dummy	0,1
411003	M16 x 2	220	19	Hexagonal	Fixed	0,3

SQUARE HEAD SPINDLES FOR SERIE 1000



Ref.	R (Thread)	L (Length)	C (Distance between faces)	Head	Point	
101031	M20 x 1,5	255	22	Square	Retractable	0,6
131031	M20 x 1,5	319	22	Square	Retractable	0,8
131731	M27 x 2	377	27	Square	Retractable	1,5

SPINDLES FOR SERIE 2400-2400L-2400T-2400LT




Ref.	R (Thread)	L (Length)	C (Distance between faces)	Head	Point	
241003	M14 x 1,5	158	17	Hexagonal	With ball	0,2
242003	M20 x 1,5	235	22	Hexagonal	With ball	0,6
243003	M28 x 2	310	22	Hexagonal	With ball	1,5
244003	1" GAS 11h	338	32	Hexagonal	With ball	2,2




SPINDLES FOR SERIE 9000-9000T



Ref.	R (Thread)	L (Length)	C (Distance between faces)	Head	Point	
900203	M12 x 1,75	145	14	Hexagonal	Fixed	0,1
901003	M18 x 2,5	230	22	Hexagonal	Fixed	0,4

COMPLETE SPINDLE FOR SERIES 9100-9100T



Ref.	R (Thread)	L (Length)	C (Distance between faces)	Head	Point	
912031	M22 x 2	317	26	Hex	Retractable	0,1

INSTRUCTIONS FOR THE CORRECT USE OF THE SPINDLE



1

Make sure the spindle is cleaned and greased before use.



2

Make sure the axe has a cent hole. If not use a point protector.



3

Make sure that jaws are evenly spread.



4

Apply pulling force by turning the spindle. Never hit the spindle.



5

Don't keep the spindle too sticking out from the puller's body.



6

Not use power impact wrench.



Do not forget to use EPIS properly.





PUSH PULLER SERIE 1100 1100



1102 - 1103



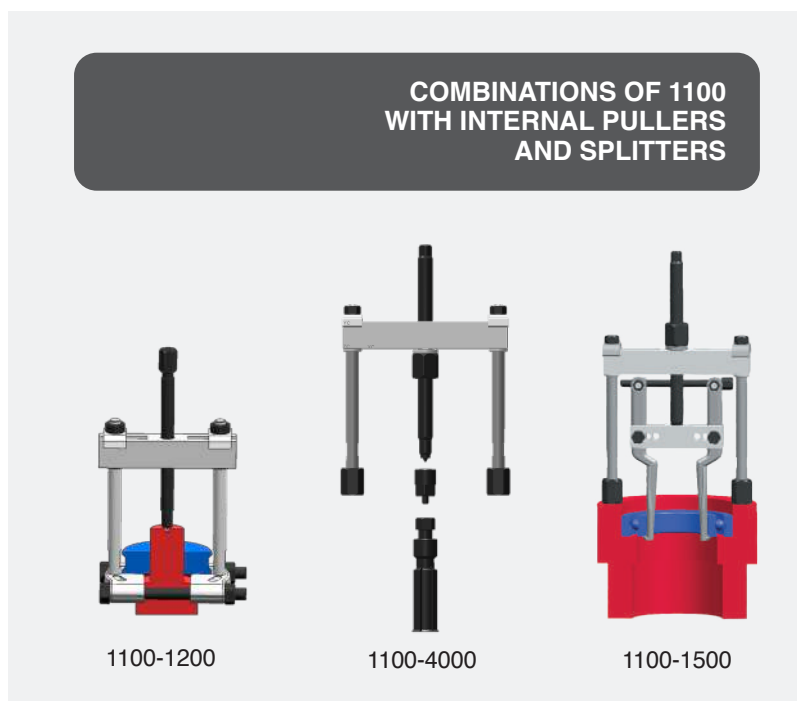
1110 - 1150

Two extenders push-puller. These pullers combine with serie 1200 splitters and are the safest way to pull pulleys without damaging them.



Bullet points

- These pullers can be mounted with jaws of the serie 1000 according to the enclosed table.
- Combines with the internal pullers 1500 and 4000.
- Quick opening and closing with just one nut.



COMBINATIONS OF 1100 WITH INTERNAL PULLERS AND SPLITTERS

1100-1200

1100-4000

1100-1500

Ref.					Compatible jaw	Body type		Spare parts		Accessories		
								Extender	Spindle	Point protector	Other extensions	Plate jaw
1102	120	110	46	122	100250-100260	Threaded	1,1	110280	110203	1002K9	-	-
1103	120	140	46	156	100250-100260	Threaded	1,3	110280	110203	1002K9	-	-
1110	190	195	62	210	101050-101060	Unthreaded	3,2	111080	111030	111037	1110-180 1110-360 1110-460	-
1120	255	325	105	340	102050-102060	Unthreaded	9,5	112080	112030	-	1120-209 1120-515 1120-665 1120-855	112005 112006
1128	255	445	173	475	102050-102060	Unthreaded	12,0	112080	112030	-	1120-209 1120-515 1120-665 1120-855	112005 112006
1135	480	450	178	480	-	Unthreaded	35,0	113580	113530	113037	1130-328 1130-836	113505
1150	680	580	219	617	-	Unthreaded	63,3	115080	115030	113037	1152-504 1152-1076	115005



PUSH PULLER SERIE 1100S

1100S








Two extenders push-puller
 Threaded body
 Only combines serie 1200 and is the safest way to remove pulleys without damaging them.

Bullet points

- These pullers can be mounted with serie 1000 jaws according to the enclosed table.
- Quick opening and closing with just one nut
- Hexagonal head spindle: more common on the market.



Ref.	SQUARE SPINDLE	Ref.	HEX. SPINDLE					Compatible jaw		Spare parts		Accessories	
										Extender	Nut enlance	Other extensions	Plate jaw
1102S	110203	-	-	115	110	46	122	100250-100260	1,1	110280	110217	-	-
1103S	110203	-	-	115	140	46	156	100250-100260	1,2	110280	110217	-	-
1110S	101031	1110SHX	101033	175	195	62	210	101050-101060	3,0	111080	111017	1110-180 1110-360 1110-460	-
1115S	101031	1115S	101033	175	245	70	260	101050-101060	3,5	111080	111017	1110-180 1110-360 1110-460	-
1120S	131731	1120S	131733	245	325	105	346	102050-102060	9,5	112080	112017	1120-209 1120-515 1120-665 1120-855	112005 112006
1128S	131731	1128SHX	131733	245	445	173	475	102050-102060	12,0	112080	112017	1120-209 1120-515 1120-665 1120-855	112005 112006

1102s and 1103S push puller must be used with a tempered point to protect the puller's spindle (1002K9).



SPLITTER SERIE 1200 **1200**



Spacer jaw puller.
It combines with 1100, 1100S mechanical pullers series and with the 1100H hydraulic puller series.
Splitters are used to remove bearings or other parts when there is not enough space to use a jaw puller.



Bullet points

- The part to pull out must rest against the flat side of the splitter.

Ref.	B Max	B min	A	Conection	Combines	Scales	Spare parts
							Spindle
1202A	60	4	60	3/8"	1102-1103	0,8	120230
1203A	81	6	80	3/8"	1102-1103	1,3	120330
1204B	110	10	110	5/8"	1110H-1108H	2,8	120430
1206B	134	12	155	5/8"	1118H-1110H	5,7	120630
1208B	210	13	180	5/8"	1128-1120	12,5	120830
1208C	210	13	180	1"	1135-1130H	12,5	120830
1210C	255	17	260	1"	1135-1152H	28,5	121030
1210D	255	17	260	1-1/4"	1150-1152H	28,5	121030
1212D	300	20	300	1-1/4"	1150-1152H	43,5	121230
1213D	300	35	330	1-1/4"	1150-1152H	86,5	121330
1213E	315	40	343	1-1/4"	1195H	83,5	121330

FLAT SPLITTER SERIE 2200 **2200**

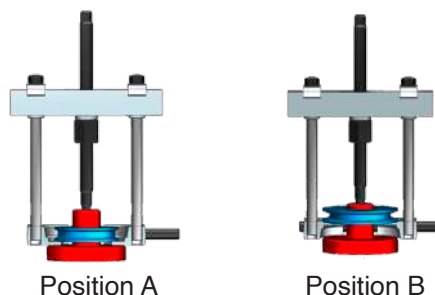


Space jaw puller.
It combines with 1100, 1100S mechanical pullers series and with the 1100H hydraulic puller series.
Thanks to its reduced thickness it can be used in small spaces.



Bullet points

- Completely flat on the inside so can be used on both sides.
- Suitable for gear boxes, wheel hub...



Ref.	B Max	B min	A	Conection	Combines	Scales	Spare parts
							Spindle
2202A	60	4	60	3/8"	1102-1103	0,8	120230
2203A	80	6	80	3/8"	1102-1103	1,3	120330
2204B	110	10	110	5/8"	1110-1140H	2,8	120430
2206B	134	12	155	5/8"	1120-1118H	6,0	120630



PUSH PULLERS AND SPLITTERS 1100-1200

1100-1200

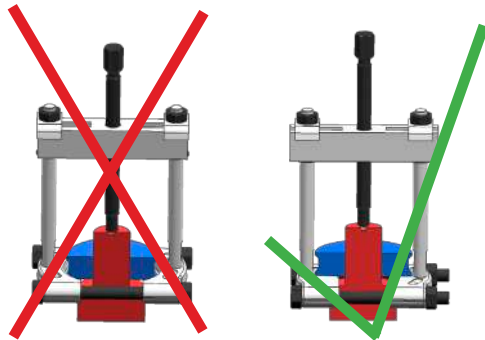






The pullers 1100 combines with the serie 1200 of splitters.
 As a measure of the pulley to be pulled out, do not take the maximum of the splitter but the distance between extenders.
 Spindle nuts beneath the body external pulling.
 The part to pull out must rest against the flat side of the splitter.



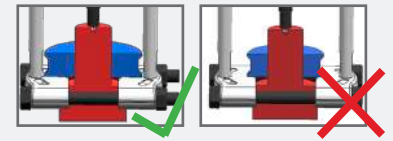
Bullet points

- The push puller is also suitable for internal extractions.



Ref.				
1102-1202A	100	55	90	1,7
1103-1203A	100	80	130	2,4
1110-1204B	152	108	175	5,8
1120-1206B	220	134	230	15,2
1128-1208B	220	180	302	24,5
1135-1208C	418	180	285	47,5
1135-1210C	418	250	372	63,5
1150-1210D	617	250	362	91,8
1150-1212D	617	300	435	106,8
1150-1213D	617	300	450	149,8

The jaws must be positioned as close as possible to the piece to be pulled out.



PUSH PULLERS AND SPLITTERS 1100S-1200

1100S-1200







The pullers 1100S combines with the serie 1200 splitters.
 As a measure of the pulley to be pulled out, do not take the maximum of the splitter but the distance between extenders.
 The part to pull out must rest against the flat side of the splitter.

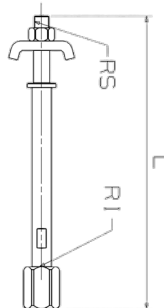


Bullet points

- Faster than the push puller 1100 as it does not require spindle nuts beneath the body.


Ref.				
1102S-1202A	100	55	90	1,7
1103S-1203A	100	80	130	2,4
1110S-1204B	152	108	175	5,7
1110S-1206B	152	77	182	8,7
1115S-1206B	152	118	220	9,2
1120S-1206B	220	134	230	15,2
1128S-1206B	220	155	290	17,7
1128S-1208B	220	180	302	24,5

COMPLETE EXTENSION FOR SERIE 1100-1100S




Complete extension that includes:

- Extension
- Washer
- Clamp
- Tightening
- Nut
- Stopped nut

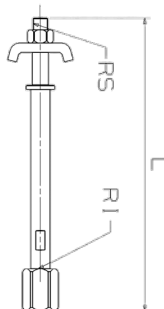
Ref.	Length (L)	Top Thread (RS)	Lower Thread (RI)		Extension
110280	158	M10	3/8"UNF 24h	0,3	1102-150
111080	230	1/2"UNF 20h	5/8"UNF 18h	0,6	1110-230
112080	311	3/4"UNF 16h	5/8"UNF 18h	1,7	1120-336
113580	582	1"UNS 14h	1"UNS 14h	5,0	1130-582
115080	820.5	1"1/4UNS 12h	1"1/4UNS 12h	10,0	1152-820

EXTENSIONS FOR SERIE 1100-1100S




Ref.	Length (L)	Top Thread (RS)	Bottom Thread (RI)	Useful length	Ø	
1102-150	158	M-10	3/8" 24h	100	12	0,1
1110-180	180	1/2" 20h	5/8" 18h	100	16	0,3
1110-230	230	1/2" 20h	5/8" 18h	150	16	0,3
1110-360	360	1/2" 20h	5/8" 18h	280	16	0,5
1110-460	460	1/2" 20h	5/8" 18h	380	16	0,7
1120-209	209	3/4" 16h	5/8" 18h	89	25	0,5
1120-336	336	3/4" 16h	5/8" 18h	216	25	1,1
1120-515	515	3/4" 16h	5/8" 18h	395	25	1,8
1120-665	665	3/4" 16h	5/8" 18h	545	25	2,3
1120-855	855	3/4" 16h	5/8" 18h	735	25	3,0
1130-328	328	1" 14h	1" 14h	158	32	1,6
1130-582	582	1" 14h	1" 14h	412	32	3,2
1130-836	836	1" 14h	1" 14h	667	32	4,8
1152-504	504	1 1/4" 12h	1 1/4" 12h	292	42	4,4
1152-820	820	1 1/4" 12h	1 1/4" 12h	608.5	42	7,7
1152-1076	1075.5	1 1/4" 12h	1 1/4" 12h	864	42	11,0

COMPLETE HYDRAULIC EXTENSION FOR SERIE 1100H



Complete extension that includes:

- Extension
- Washer
- Clamp
- Tightening
- Nut
- Stopped nu

Ref.	Length	Top thread	Bottom thread	
111080H	460	3/4"UNF 16h	5/8"UNF 18h	2,1
111880H	515	3/4"UNF 16h	5/8"UNF 18h	2,5
113080H	582	1"UNS 14h	1"UNS 14h	5,1
115280H	820	1 1/4"UNF 12h	1 1/4"UNF 12h	11,0
119580H	660	1 3/4"UNF 12h	1 3/4"UNF 12h	16,0

LINK NUTS

They are used to join extensions and obtain more length.





Ref.	
110217	0,1
111017	0,1
112017	0,2
113517	0,3
115017	0,8

PLATE JAWS FOR SERIE 1100-1100H




Extender is not included.

Ref.	M (Shovel depth)	L (Height)	P (Minimal thickness)	
112005	10	12	6	0,1
112006	10	15	7	0,1
113505	52	35	10	1,2
115005	62	45	15	1,9

COMPLETE SPINDLES FOR PUSH PULLERS SERIE 1100


These complete spindles include nut and washer Square head.



Ref.	R (Thread)	L (Length)	C (Distance between faces)	Head	
111030	3/4" UNF 16h	280	14	Square	0,8
112030	1" UNS 14h	398	17	Square	1,7
113530	1 1/2" UNF 12h	550	25	Square	5,2
115030	1 5/8" UNF 12h	700	32	Square	8,3

SPINDLE WITH TWO NUTS FOR SPLITTER SERIE 1200 AND 2200



Ref.	R (Thread)	L (Length)	
120230	7/16" 20h	130	0,1
120330	7/16" 20h	157	0,1
120430	5/8" 18h	210	0,4
120630	3/4" 16h	265	0,7
120830	7/8" 14h	333	1,3
121030	1 1/8" 12h	453	2,7
121230	1 1/4" 12h	580	4,4
121330	1 3/4" 12h	650	9,0



2 JAW LIGHT PULLER SERIE 2840

2840



2 oscilating jaw puller.
Very light for domestic use.
Hexagonal spindle.



Ref.				Spare parts	
				Spindle	Jaw
2841	40	60	0,1	284203	284105
2842	65	75	0,2	284203	284205
2843	80	100	0,3	284303	284305

3 JAW LIGHT PULLER SERIE 2840T

2840T



3 oscilating jaw puller.
Very light for domestic use.
Hexagonal spindle.



Bullet points

- Improved extraction with three points of support.

Ref.				Spare parts	
				Spindle	Jaw
2841T	40	60	0,2	284203	284105
2842T	65	75	0,3	284203	284205
2843T	80	100	0,5	284303	284305



2 JAWS SERIE 1300

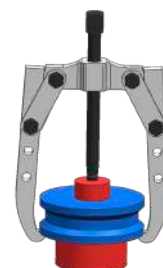
13000








2 oscillating jaw puller.
Jaws with 2 holes.

Bullet points

- Different jaw positions.
- Square head spindle for a better grip with a wrench.



Ref.						Spare parts		Accessories
						Spindle	Complete jaw	Point protector
1300	55	70	10	37	0,2	130003	130050	P0001
1301	85	100	20	70	0,4	130103	130150	P0001
1304	135	150	30	80	1,2	130403	130450	P0004
1307	180	200	40	113	2,4	130703	130750	P0004
1308	180	250	40	160	2,7	130703	130750	P0004
1310	305	300	60	160	5,5	131031	131050	-
1317	370	425	80	280	11,5	131731	131750	-
1330	460	520	100	325	25,5	133031	133050	-
1350	750	800	150	402	49,0	135032	135050	-

2 LONG JAWS SERIE 1300L

1300L0








2 oscillating jaw puller.
Jaws with 3 holes.

Bullet points

- Different jaw positions.
- Square head spindle for a better grip with a wrench.



Ref.						Spare parts		Accessories
						Spindle	Complete jaw	Point protector
1300L	70	90	10	37	0,2	130003	130060	P0001
1301L	105	110	20	70	0,5	130103	130160	P0001
1304L	185	175	30	80	1,4	130403	130460	P0004
1307L	225	240	40	113	2,5	130703	130760	P0004
1308L	225	290	40	160	2,9	130703	130760	P0004
1310L	390	345	60	160	6,0	131031	131060	-
1317L	480	480	80	280	13,0	131731	131760	-
1330L	590	650	100	325	30,0	133031	133060	-
1350L	900	980	150	402	55,5	135032	135260	-



2 EXTRA LONG JAWS SERIE 1300X **1300X**



2 oscillating jaw puller.
Extra long jaws with 4 holes.



Bullet points

- Different jaw positions.
- Square head spindle for a better grip with a wrench.

Ref.					Spare parts	
					Complete jaw	Spindle
1310X	475	390	160	7,6	131066	131031
1317X	595	540	280	15,1	131766	131731
1330X	710	720	325	34,5	133066	133031
1350X	1050	1080	402	62,3	135266	135032

3 JAWS SERIE 1300T **1300T0**

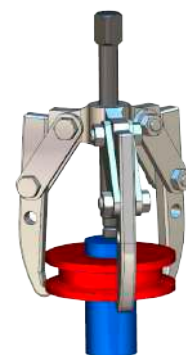


3 oscillating jaw puller.
Jaws with 2 holes.



Bullet points

- Different jaw positions.
- Square head spindle for a better grip with a wrench.
- Improved extraction with three points of support.
- The 3 largest pullers have a bronze nut for protection.



Ref.					Position		Spare parts		Accessories	Spare parts
							Spindle	Complete jaw	Point protector	Complete threaded bushing
1300T	55	70	10	37	3 jaws	0,3	130003	130050	P0001	-
1301T	85	100	20	80	2/3 jaws	0,7	130103	130150	P0001	-
1304T	135	150	30	104	2/3 jaws	1,8	130403	130450	P0004	-
1307T	180	200	60	108	2/3 jaws	3,5	130703	130750	P0004	-
1308T	180	250	80	160	2/3 jaws	3,8	130703	130750	P0004	-
1310T	305	315	60	176	2/3 jaws	7,5	131031	131050	-	-
1317T	370	425	80	280	3 jaws	16,5	131731	131750	-	1317TK1
1330T	460	520	100	325	3 jaws	33,5	133031	133050	-	1330TK1
1350T	750	800	150	402	3 jaws	65,0	135032	135050	-	1330TK1



3 LONG JAWS SERIE 1300LT

1300LT0








3 oscillating jaw puller.
Jaws with 3 holes.



Bullet points

- Different jaw positions.
- Square head spindle for a better grip with a wrench.
- Improved extraction with three points of support.
- The 3 largest pullers have a bronze nut for protection.

Ref.					Position		Spare parts		Accessories	Spare parts
							Spindle	Complete jaw	Point protector	Complete threaded bushing
1300LT	70	90	8	37	3 jaws	0,3	130003	130060	P0001	-
1301LT	105	110	20	80	2/3 jaws	0,7	130103	130160	P0001	-
1304LT	185	175	30	104	2/3 jaws	2,1	130403	130460	P0004	-
1307LT	225	240	10	108	2/3 jaws	3,5	130703	130760	P0004	-
1308LT	225	290	40	160	2/3 jaws	3,9	130703	130760	P0004	-
1310LT	390	360	60	176	2/3 jaws	8,5	131031	131060	-	-
1317LT	480	480	80	280	3 jaws	18,5	131731	131760	-	1317TK1
1330LT	590	650	100	325	3 jaws	39,0	133031	133060	-	1330TK1
1350LT	900	980	150	402	3 jaws	75,0	135032	135260	-	1330TK1

3 EXTRA LONG JAWS MANUAL SERIE 1300X

1300XT







3 oscillating jaw puller.
Extra long jaws with 4 holes.



Bullet points

- Different jaw positions.
- Square head spindle for a better grip with a wrench.
- Improved extraction with three points of support.
- The 3 largest pullers have a bronze nut for protection.



Ref.				Position		Spare parts		
						Complete jaw	Spindle	Complete threaded bushing
1310XT	475	410	176	2/3 jaws	10,9	131066	131031	
1317XT	595	540	280	3 jaws	21,7	131766	131731	1317TK1
1330XT	710	720	325	3 jaws	45,5	133066	133031	1330TK1
1350XT	1050	1080	402	3 jaws	85,5	135266	135032	1330TK1



2 JAWS SERIE 7300 7300

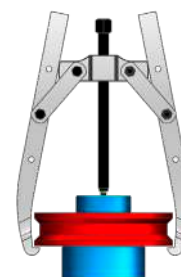






2 oscillating jaw puller.
Jaws with 3 holes.
The arms tip is thin and slotted to pull with a screw head.



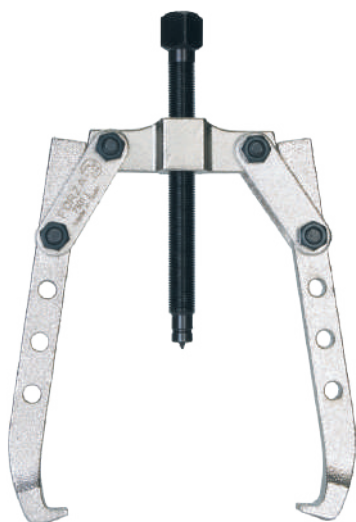
Bullet points

- Different jaw positions.
- Square head spindle for a better grip with a wrench.
- Jaws with slotted for pulling with screws.



Ref.					Spare parts		Accessories
					Jaw	Spindle	Point protector
7301	105	110	70	0,5	730150	130103	P0001
7304	185	175	80	1,3	730450	130403	P0004
7307	225	240	113	2,8	730750	130703	P0004
7308	225	280	160	3,2	730750	130703	P0004

2 LONG JAWS 7300L SERIE 7300L

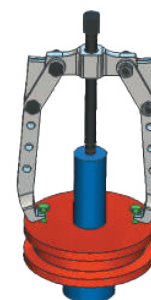






2 oscillating jaw puller.
Jaws with 4 holes.
The arms tip is thin and slotted to pull with a screw head.



Bullet points

- Different jaw positions.
- Square head spindle for a better grip with a wrench.
- Jaws with slotted for pulling screws.

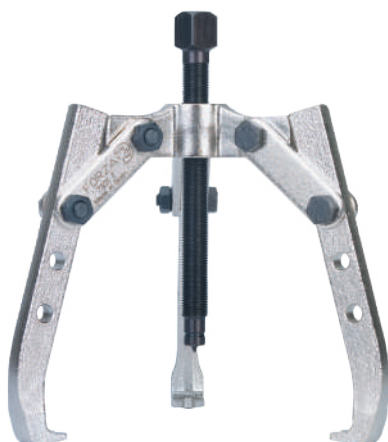


Ref.					Spare parts		Accessories
					Jaw	Spindle	Point protector
7301L	120	125	70	0,5	730160	130103	P0001
7304L	210	220	80	1,4	730460	130403	P0004
7307L	270	280	113	3,0	730760	130703	P0004
7308L	270	330	160	3,4	730760	130703	P0004



3 JAWS SERIE 7300T

7300T







3 oscillating jaw puller.
Jaws with 3 holes.
The arms tip is thin and slotted to pull with a screw head.



Bullet points

- Different jaw positions.
- Square head spindle for a better grip with a wrench.
- Jaws with slotted for pulling screws.
- Improved extraction with three points of support.

Ref.				Position		Spare parts		Accessories
						Jaw	Spindle	Point protector
7301T	105	110	80	2/3 jaws	0,7	730150	130103	P0001
7304T	185	175	104	2/3 jaws	1,9	730450	130403	P0004
7307T	225	240	110	2/3 jaws	4,1	730750	130703	P0004
7308T	225	290	160	2/3 jaws	4,4	730750	130703	P0004

2 LONG JAWS 7300L SERIE

7300LT







3 oscillating jaw puller.
Jaws with 4 holes.
The arms tip is thin and slotted to pull with a screw head.



Bullet points

- Different jaw positions.
- Square head spindle for a better grip with a wrench.
- Jaws with slotted for pulling screws.
- Improved extraction with three points of support.

Ref.				Position		Spare parts		Accessories
						Jaw	Spindle	Point protector
7301LT	120	125	80	2/3 jaws	0,9	730160	130103	P0001
7304LT	210	220	104	2/3 jaws	2,1	730460	130403	P0004
7307LT	270	280	110	2/3 jaws	4,4	730760	130703	P0004
7308LT	270	330	160	2/3 jaws	4,7	730760	130703	P0004



2 JAWS SERIE 9300 **93000**

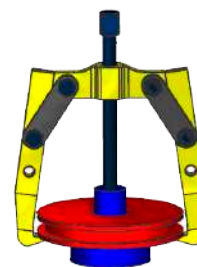


2 oscillating jaw puller.
The tip of the jaw is very thin in order to access to small places.



Bullet points

- Different jaw positions.
- Square head spindle for a better grip with a wrench.
- Brass plated finish.
- Thin jaws to access to small places.



Ref.					Spare parts		Accessories
					Spindle	Jaw	Point protector
9300	55	70	37	0,2	130003	930050	P0001
9301	85	100	70	0,5	130103	930150	P0001

3 JAWS SERIE 9300T **9300T0**



3 oscillating jaw puller.
The tip of the jaw is very thin in order to access to small places.



Bullet points

- Different jaw positions.
- Square head spindle for a better grip with a wrench.
- Brass plated finish.
- Improved extraction with three points of support.
- Thin jaws to access to small places.

Ref.				Position		Spare parts		Accessories
						Spindle	Jaw	Point protector
9300T	55	70	37	3 jaws	0,3	130003	930050	P0001
9301T	85	100	80	2/3 jaws	0,7	130103	930150	P0001



3 JAWS SELF CENTERING PULLER SERIE 1300ALT

1300ALT








3 external long jaws puller.
The self-centering puller is very safe due to the maximum opening limit.
The 2 largest pullers have a bronze nut for protection.



Bullet points

- Different jaw positions.
- Square head spindle for a better grip with a wrench.
- Self-centring system: automatic centring of the jaws for better grip.
- Improved extraction with three points of support.



Ref.					Position		Spare parts		Accessorie	Spare part
							Jaw	Spindle	Point protector	Complete threaded bushing
1301ALT	105	110	20	80	2 - 3 jaws	0,9	130186	130103	P0001	-
1304ALT	185	175	30	104	2 - 3 jaws	2,6	130486	130403	P0004	-
1307ALT	225	240	40	110	2 - 3 jaws	6,5	130786	130703	P0004	-
1310ALT	390	360	60	176	2 - 3 jaws	14,5	131006	131031	-	-
1317ALT	500	480	80	280	3 jaws	31,5	131706	131731	-	1317TK1
1330ALT	600	680	100	325	3 jaws	55,5	133006	133031	-	1330TK1

3 EXTRA LONG JAW SELF CENTERING PULLER SERIE 1300AXT

1300AXT







3 external extra-long jaws puller.
The self-centering puller is very safe due to the maximum opening limit.
The 2 largest pullers have a bronze nut for protection.



Bullet points

- Different jaw positions.
- Square head spindle for a better grip with a wrench.
- Self-centring system: automatic centring of the jaws for better grip.
- Improved extraction with three points of support.

Ref.				Position		Spare parts		
						Jaw	Spindle	Complete threaded bushing
1310AXT	475	410	176	2-3 jaws	16,0	131016	131031	-
1317AXT	615	540	280	3 jaws	34,5	131716	131731	1317TK1
1330AXT	640	720	325	3 jaws	61,5	133016	133031	1330TK1



3 JAWS SELF CENTERING PULLER SERIE 7300AT 7300AT



2 and 3 external long jaws puller.
The self-centering puller is very safe due to the maximum opening limit.
The arms tip is thin and slotted to pull with a screw head.



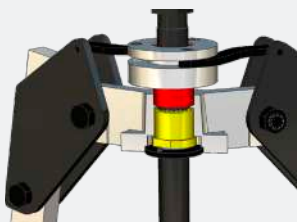
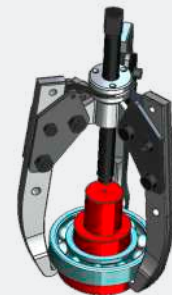
Bullet points

- Different jaw positions.
- Square head spindle for a better grip with a wrench.
- Self-centering system: automatic centring of the jaws for better grip.
- Jaws with slotted for pulling screws.
- Improved extraction with three points of support.

Ref.	A	B max	C	Scales	Spare parts		Accessories
					Jaw	Spindle	Point protector
7301ALT	120	125	80	0,9	730186	130103	P0001
7301AT	105	110	80	0,9	730185	130103	P0004
7304ALT	210	220	104	2,5	730486	130403	P0004
7304AT	185	175	104	2,3	730485	130403	P0004
7307ALT	270	280	108	6,7	730786	130703	P0004
7307AT	225	240	108	6,5	730785	130703	P0004

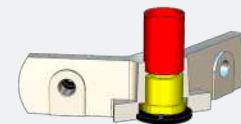
Why self centering?

- All the jaws move at the same time.
- Offers easier positioning of the puller even in difficult to get at place.
- The self centering puller is safe thanks to its kaw device in max spread position.
- Working wit the extractor more open implies:
 - Incorrect support of the legs.
 - Risk of loosening.
- The 1300AT series self-centering puller has an opening stop.



Body with bronze nut

This bronze nut is over on a rubber seal, which allows hammering to be absorbed.



PULLERS REPAIR KIT



Ref.	Scales
9130K1	0,2
1317TK1	0,3
1330TK1	0,5



2 JAWS ADJUSTABLE PULLER 7500

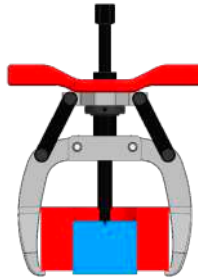


2 self centering jaw puller.
Opening of the jaws with the red handle.








Bullet points

- Hexagonal headed spindle.
- Greater extraction capacity due to the design of the jaws.
- Patented self-centering system.



7504 puller has the possibility of using the 4393 side hammer.



Ref.					D	H	R		Spare parts		Accessories	
									Spindle	Jaw	Point protector	Slide hammer
7501	68	95	20	40	3	11	M10x1,5	0,5	750103	750105	P0001	-
7502	120	132	28	60	4,6	17	9/16" UNF 18h	1,6	750203	750205	P0001	-
7504	142	186	30	90	6,7	20	5/8" UNF 18h	2,8	750403	750405	P0004	4393
7507	177	260	35	134	9,6	20	M18x1,5	4,9	750703	750705	P0004	-
7510	215	300	84	126	11,9	22	M20x1,5	7,7	751030	751015	-	-
7515	265	420	90	130	15	22	M20x1,5	10,0	751553	751505	-	-

3 JAWS ADJUSTABLE PULLER 7500T



3 Self-centering jaw puller.
Opening of the jaws with the red handle.

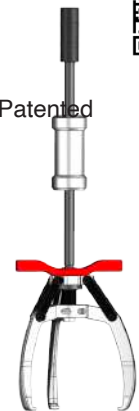







Bullet points

- Hexagonal headed spindle.
- Greater extraction capacity due to the design of the jaws. Patented self-centering system.
- Improved extraction due to three support points.



7504T puller has the possibility of using the 4393 side hammer.



Ref.					D	H	R		Spare parts		Accessories	
									Spindle	Jaw	Point protector	Slide hammer
7501T	68	95	20	40	3	11	M10x1,5	0,7	750103	750105	P0001	-
7502T	102	132	28	60	4,6	17	9/16" UNF 18h	2,1	750203	750205	P0001	-
7504T	142	186	30	90	6,7	20	5/8" UNF 18h	2,9	750403	750405	P0001	4393
7507T	177	260	35	134	9,6	20	M18x1,5	6,9	750703	750705	P0004	-
7510T	215	300	84	126	11,9	22	M20x1,5	9,9	751030	751015	-	-
7515T	265	420	90	130	15	22	M20x1,5	14,0	751553	751505	-	-
7525T	330	520	169	169	23	28	M27x2	32,0	752553	752505	-	-



2 JAWS LIGHT PULLER SERIE 2740 2740







2 self centering light puller.
This serie has the characteristic that the legs interlock nut on the spindle, which makes all the legs move at the same. Works like self centering pullers.



Bullet points

- Hexagonal head spindle.
- Self-centring system: automatic centring of the jaws for better grip.

Ref.					Spare parts	
					Spindle	Jaw
2741	80	80	77	0,5	274103	274105
2743	116	122	91	0,9	274303	274305
2745	160	161	102	1,8	274503	274505
2748	200	202	134	3,3	274803	274805

3 JAWS LIGHT PULLER SERIE 2740T 2740T

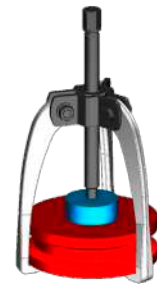






3 self centering light puller.
This serie has the characteristic that the legs interlock nut on the spindle, which makes all the legs move at the same. Works like self centering pullers.



Bullet points

- Hexagonal head spindle.
- Self-centring system: automatic centring of the jaws for better grip.
- Improved extraction due to three support points.



Ref.					Spare parts	
					Spindle	Jaw
2741T	80	80	77	0,6	274103	274105
2743T	116	122	91	1,1	274303	274305
2745T	160	161	102	2,3	274503	274505
2748T	200	202	134	4,2	274803	274805




COMPLETE OSCILLATING JAW SERIE 2840-2840T



Ref.	Total jaw length (L)	Jaw width (R)	Shovel depth (P)	Useful jaw length (D)	
284105	56	9,5	6	40	0,1
284205	87,5	10	8	65	0,1
284305	102	11,5	10	80	0,1


COMPLETE OSCILLATING JAW SERIE 1300-1300T



Ref.	Total jaw length (L)	Jaw width (R)	Shovel depth (P)	Useful jaw length (D)	
130050	70	6,5	4,5	70	0,1
130150	106	8	6,5	85	0,1
130450	166	21	7	135	0,9
130750	217	25	8,5	180	0,8
131050	355	25	15	300	1,8
131750	435	32	15,5	370	3,8
133050	557	42	23	460	6,7
135050	850	50	27	750	17,1


COMPLETE OSCILLATING JAW SERIE 1300L-1300LT



Ref.	Total jaw length (L)	Jaw width (R)	Shovel depth (P)	Useful jaw length (D)	
130060	85	6,5	4,5	70	0,1
130160	127	7,5	7	105	0,1
130460	219	21	8	185	1,0
130760	264	25	8	225	1,0
131060	436	25	15	400	2,1
131760	550	31	17,5	480	4,5
133060	698	41	24	590	7,8
135260	1060	50	27	900	23,8

COMPLETE OSCILLATING JAW SERIE 1300X-1300XT



Ref.	Total jaw length (L)	Jaw width (R)	Shovel depth (P)	Useful jaw length (D)	
131066	516	25	15	480	2,4
131766	665	31	17,5	595	5,5
133066	823	41	24	710	9,9
135266	1210	50	27	1050	10,0



COMPLETE OSCILLATING JAW SERIE 7300-7300T



Ref.	Total jaw length (L)	Jaw width (R)	Shovel depth (P)	Useful jaw length (D)	
730150	121	13	7	105	0,1
730450	205	17	11,5	185	0,9
730750	273	24	14,5	225	1,0

COMPLETE OSCILLATING JAW SERIE 7300L-7300LT



Ref.	Total jaw length (L)	Jaw width (R)	Shovel depth (P)	Useful jaw length (D)	
730160	140	13	7	120	0,2
730460	247	17	11,5	210	1,0
730760	317	24	14,5	270	1,1

COMPLETE OSCILLATING JAW SERIE 9300-9300T



Ref.	Total jaw length (L)	Jaw width (R)	Shovel depth (P)	Useful jaw length (D)	
930050	72	9	6	55	0,1
930150	110	12	7	85	0,1

SPINDLES FOR SERIE BRICO 2840-2840T



Ref.	Thread	L (Length)	C (Distance between faces)	Head	Point	
284203	M8 X 1,25	97	10	Hexagonal	With ball	0,1
284303	M10 X 1,5	124	10	Hexagonal	With ball	0,1



SPINDLES FOR SERIE 1300-1300T-1300L-1300LT


Ref.	Thread	L (Length)	C (Distance between faces)	Head	Point	
130003	M8 x 1	92	9	Square	Fixed	0,1
130103	M10 x 1	110	12	Square	Fixed	0,1
130403	M14 x 1,5	180	16	Square	Fixed	0,2
130703	M18 x 1,5	235	23	Square	Fixed	0,4
133031	1 3/8" UNF 12h	495	35	Square	Retractable	3,6
135032	1 3/8" UNF 12h	520	35	Square	Retractable	4,0

SELF CENTERING JAW SERIE 1300ALT


Ref.	Total jaw length (L)	Jaw width (R)	Shovel depth (P)	Useful jaw length (D)	
130186	127	7,5	7	105	0,1
130486	219	21	8	185	0,3
130786	264	25	8	225	0,7
133006	698	41	24	300	6,0
135206	1060	65	35	370	17,0
131005	355	25	15	410	1,3
131705	435	32	15,5	500	2,5
131006	436	25	15	600	1,6
139506	1410	70	44	710	42,5
131706	550	31	17,5	1600	3,1

SELF CENTERING JAW SERIE 1300AXT


Ref.	Total jaw length (L)	Jaw width (R)	Shovel depth (P)	Useful jaw length (D)	
135216	1210	45	56	830	20,0
131016	516	25	15	490	2,0
131716	665	31	17,5	615	4,2
133016	823	41	24	640	8,1

SELF CENTERING JAW SERIE 7300ALT-7300AT


Ref.	Total jaw length (L)	Jaw width (R)	Shovel depth (P)	Useful jaw length (D)	
730786	317	24	14,5	270	0,9
730185	121	13	7	105	0,1
730186	140	13	7	120	0,1
730485	205	17	11,5	185	0,3
730486	247	17	11,5	210	0,3
730785	273	24	14,5	225	0,8



SELF CENTERING JAW SERIE 1500-1500T



Ref.	Total jaw length (L)	Jaw width (R)	Shovel depth (P)	Useful jaw length (D)	
750105	81	6	3	68	0,1
750205	119,5	13	4,5	120	0,2
750405	166,3	15,5	6,5	142	0,3
750705	209	19	8,3	177	0,6
751505	300	30	17	265	2,2
752505	367	45	23	330	5,0

SELF CENTERING JAW SERIE 2740-2740T



Ref.	Total jaw length (L)	Jaw width (R)	Shovel depth (P)	Useful jaw length (D)	
274105	114	14	11	80	0,1
274305	159	17	11	116	0,2
274505	210	20	16	160	0,4
274805	262	28	20	200	0,8

SPINDLES FOR SERIES 7500-7500T



Ref.	Thread	L (Length)	C (Distance between faces)	Head	Point	
751553	M20 x 1,5	338	22	Hexagonal	Concealed	0,8
752553	M27 X 2	497,5	28	Hexagonal	Fixed	2,1
750103	M10 x 1,5	135	11	Hexagonal	Fixed	0,1
750203	9/16" UNF 12h	207	17	Hexagonal	Fixed	0,2
750403	5/8" UNF 18h	270,5	20	Hexagonal	Fixed	0,4
750703	M18 x 1,5	334,5	20	Hexagonal	Fixed	0,6
751030	M20 x 1,5	353	22	Hexagonal	Concealed	0,9

SPINDLES FOR SERIE 2740-2740T



Ref.	Thread	L (Length)	C (Distance between faces)	Head	Point	
274103	M12 x 1,25	133	14	Hexagonal	Fixed	0,1
274303	M14 x 2	182	17	Hexagonal	Fixed	0,2
274503	M18 x 1,5	280	19	Hexagonal	Fixed	0,4
274803	M20 x 1,5	280	22	Hexagonal	Fixed	0,7

2 JAWS SERIE 1400

1400







2 reversible jaw puller.
Two types of jaws: one wider than the other.
From 1407 onwards the wide side of the jaw is slotted for pulling screws.



Bullet points

- Square head spindle for a better grip with a wrench.
- Reversible jaws with different cross-section.

Ref.					Spare parts		Accessories
					Jaw	Spindle	Point protector
1401	65	80	70	0,4	140150	130103	P0001
1404	85	150	80	1,0	140450	130403	P0004
1407	135	200	108	2,1	140750	130703	P0004
1408	125	250	160	2,4	140750	130703	P0004
1410	260	320	161	4,5	141050	131031	-

3 JAWS SERIE 1400T

1400T

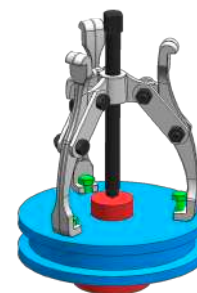






3 reversible jaws puller
Two types of jaws: one wider than the other
From 1407T onwards the wide side of the jaw is slotted for pulling screws.



Bullet points

- Square head spindle for a better grip with a wrench.
- Reversible jaws with different cross-section.
- Improved extraction with three points of support.



Ref.				Position		Spare parts		Accessories
						Jaw	Spindle	Point protector
1401T	65	80	80	2/3 jaws	0,6	140150	130103	P0001
1404T	85	150	80	2/3 jaws	1,5	140450	130403	P0004
1407T	135	200	113	2/3 jaws	3,0	140750	130703	P0004
1408T	125	250	160	2/3 jaws	3,4	140750	130703	P0004
1410T	260	320	161	2/3 jaws	6,5	141050	131031	-



2 LONG JAWS SERIE 1400L 1400L







2 reversible long jaw puller.
Two types of blades: one wider than the other.
From 1407 onwards the wide side of the jaw have a slotted with a screw.



Bullet points

- Square head spindle for a better grip with a wrench.
- Reversible jaws with different cross-section.
- Different jaw positions.
- Two holes in the jaws for two different positions.

Ref.					Spare parts		Accessories
					Jaw	Spindle	Point protector
1401L	85	120	70	0,5	140160	130103	P0001
1404L	135	170	80	1,1	140460	130403	P0004
1407L	180	235	108	2,7	140760	130703	P0004
1408L	180	280	160	3,0	140760	130703	P0004

3 LONG JAWS SERIE 1400LT 1400LT

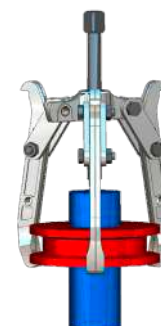






3 reversible long-jawged puller.
Two types of blade: one wider than the other.
The wide side of the jaw has an indentation for pulling screws.



Bullet points

- Square-headed spindle for better grip on the spanner.
- Reversible jaws with different cross-section.
- Different jaw positions.
- Two holes in the jaws for two positions.
- Improved extraction with three points of support.




Ref.				Position		Spare parts		Accessories
						Jaw	Spindle	Point protector
1401LT	85	130	80	2/3 jaws	0,7	140160	130103	P0001
1404LT	135	185	104	2/3 jaws	1,7	140460	130403	P0004
1407LT	180	240	113	2/3 jaws	3,8	140760	130703	P0004
1408LT	180	285	160	2/3 jaws	4,1	140760	130703	P0004




REVERSIBLE JAW SERIE 1400-1400T



Ref.	Total jaw length (L)	Jaw width (R)	Shovel depth (P)	Useful jaw length (D)	
140150	93	6	6	65	0,1
140450	130	8	8	85	0,8
140750	221	25	15	125	0,9
141050	300	26	20	260	1,3

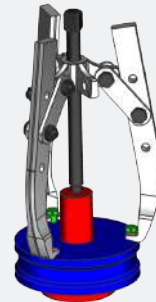
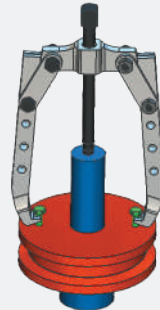
REVERSIBLE JAW SERIE 1400L-1400LT



Ref.	Total jaw length (L)	Jaw width (R)	Shovel depth (P)	Useful jaw length (D)	
140160	107	8	7	85	0,1
140460	176	10	11,5	135	0,9
140760	260	13	15	180	0,9



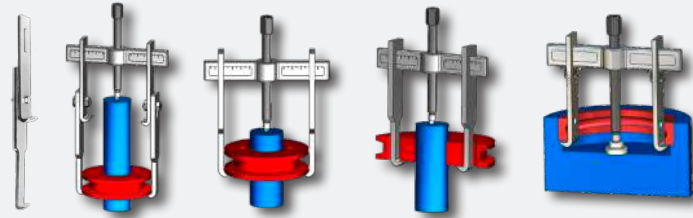
Jaws with a slotted to pull with screw.





Multiple pullers for various applications

- **Versatility:** Capable of adapting easily and quickly to different applications.
- **Multiblade:** Sets of legs that can be coupled to each other as needed.
- **Value:** Optimal cost-quality balance.



8 JAWS SERIE 1800 1800



2 jaw reversible multiple puller for external and internal applications.
Spindle with swivel 60 point.
Jaws 32 have a slotted to pull with a screw.



Bullet points

- Features 4 sets of jaws.
- Quick positioning and changing of the spring-loaded jaws.
- Two jaws can be joined together for extra height.

Ref.						Spare parts		
						Spindle	Jaw	Point protector
1805	140	173	35	186	2,7	180530	180531	180537
							180532	
							180533	
							180534	
1810	182	250	35	280	6,0	181030	181031	181037
							181032	
							181033	
							181034	

6 JAWS MULTIPLE PULLER 1810-42



2 jaw reversible multiple puller for external and internal applications.
Spindle with 60° rotating point.
Jaws 32 have a slotted to pull with a screw.
Jaws 44 has two positions thus replacing two arms.



Bullet points

- Features 3 sets of jaws.
- Quick positioning and changing of the spring-loaded jaws.
- Two jaws can be joined together for extra height.

Ref.					Spare parts	
					Jaw	Point protector
1810-42	182	250	280	5,0	181031	181037
					181032	
					181044	



12 JAW SERIE 1800T

1800T







3 jaw reversible multiple puller for external and internal applications.
Spindle with 60° rotating point.
Jaws 32 have a slotted to pull with a screw.



Bullet points

- Features 4 sets of jaws.
- Quick positioning and changing of the spring-loaded jaws.
- Two jaws can be joined together to achieve a greater height.
- Improved extraction with three points of support.

Ref.					Spare parts		
					Spindle	Jaw	Point protector
1805T	140	157	170	3,7	180530	180531 180532 180533 180534	180537
1810T	182	240	270	8,5	181030	181031 181032 181033 181034	181037

KIT SERIE 1800-C

1800C







2 jaw reversible multiple puller for external and internal applications.
Spindle with 60° rotating point.
Jaw 32 have a slotted to pull with a screw.
Includes point protector.



Bullet points

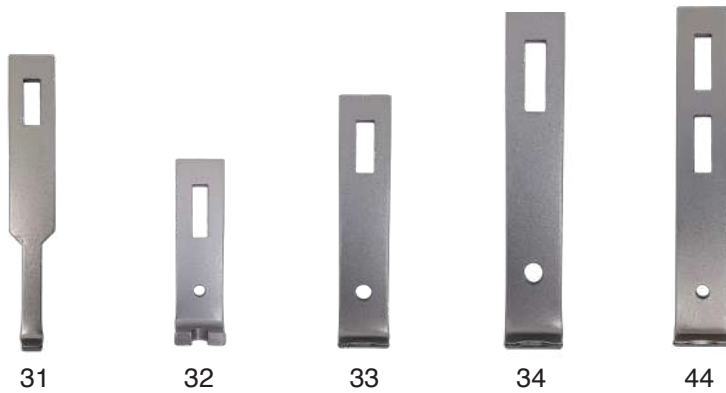
- Features 4 sets of jaws.
- Quick positioning and changing of the spring-loaded jaws.
- Two jaws can be joined together for extra height.



Ref.					Spare parts		
					Spindle	Jaw	Point protector
1805-C	140	173	186	2,9	180530	180531 180532 180533 180534	180537
1810-C	182	250	280	6,5	181030	181031 181032 181033 181034	181037



MULTIPURPOSE JAW SERIE 1800-1800T-1800C



Ref.	Total jaw length (L)	Jaw width (R)	Shovel depth (P)	Useful jaw length (D)	Jaw thickness (E)	⚖️
181044	253	40	14	180	8	0,6
180531	190	12,5	13	136	8	0,3
180532	119	30	20	61	8	0,2
180533	151	30	12	100	6	0,2
180534	186	30	12	140	6	0,3
181031	255	17	14	182	10	0,6
181032	149	40	24	76	10	0,5
181033	191	40	14	120	8	0,5
181034	253	40	14	180	8	0,6

32 jaws have a groove to pull with screws

2 jaws can be joined together for extra height

COMPLETE SPINDLES WITH POINT FOR SERIE 1800-1750

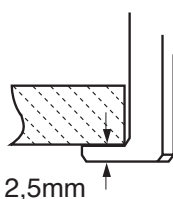


Ref.	Thread	L (Length)	C (Distance between faces)	Head	Point	⚖️
180530	9/16" UNC 12h	124	17	Hexagonal	Removable	0,1
181030	3/4" UNC 10h	272	20	Hexagonal	Removable	0,5



2 THIN JAWS PULLER SERIE 1750

17500








2 thin jaw puller for external applications.
Spindle with 60° rotating point.
Make sure that the jaws are well supported on the workpiece to be extracted.



Bullet points

- Very slim jaws for access to narrow places.

Ref.						Spare parts		
						Spindle	Jaw	Point protector
1750C	110	140	35	186	1,4	180530	175050	180537
1750	145	140	35	186	1,7	180530	175040	180537
1750L	195	125	35	170	2,1	180530	175060	180537
1760	200	210	45	280	5,0	901003	176150	
1760L	300	210	45	280	6,0	901003	176160	

3 THIN JAWS PULLER SERIE 1750T

1750T0








3 thin jaw puller for external applications
Spindle with 60° rotating point.
Make sure that the jaws are well supported on the workpiece to be extracted.



Bullet points

- Very slim jaws for access to narrow places.
- Improved extraction with three points of support.

Ref.						Spare parts		
						Spindle	Jaw	Point protector
1750CT	110	125	30	170	1,9	180530	175050	180537
1750T	145	125	30	170	2,5	180530	175040	180537
1750LT	195	125	30	170	3,1	180530	175060	180537
1760LT	300	200	40	270	9,0	901003	176160	
1760T	200	200	40	270	7,5	901003	176150	

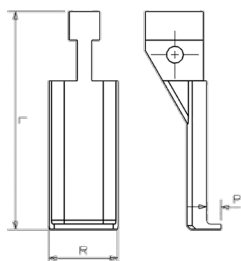


COMPLETE THIN JAW SERIE 1750-1750T



Ref.	Total jaw length (L)	Jaw width (R)	Shovel depth (P)	Useful jaw length (D)		Jaw
175040	145	27	2,5	110	0,4	175005
175050	185	27	2,5	145	0,5	175005
175060	235	27	2,5	195	0,7	175005
176150	256	27	2,5	200	1,0	175005
176160	356	27	2,5	300	1,6	175005

THIN JAW WITHOUT CLAMPS



Ref.	Shovel depth (P)	Total length (L)	Jaw width (R)	
175005	2,5	90	27	0,1

Thin jaws puller

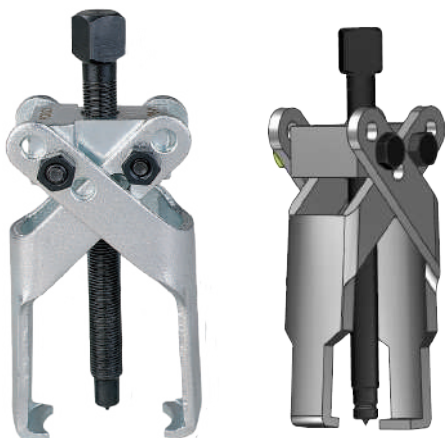
Best extractions for narrow places

Correct use of jaws to avoid breaks



SCISSORS PULLER SERIE 2640

2640



2641E

Scissor type bearing puller.
Jaws can be mounted crossed or unfolded.

Bullet points

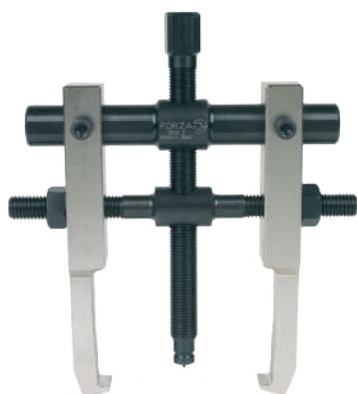
- Square head spindle for a better grip with a wrench.
- Thin jaws for easy access to tight places.



Ref.	Diagram				Jaw type	Scales	Spare parts		Accessories
	A	B _{max}	A ₂	B _{max2}			Jaw	Spindle	Point protector
2641	90	55	90	95	Crossed and deployed	0,4	264105 264106	130103	P0001
2641E	90	55	90	95	Thin crossed and deployed	0,4	264115 264116	130103	P0001
2642	125	70	120	125	Crossed and deployed	0,8	264205 264206	130403	P0004
2643	125	80	160	125	Crossed and deployed	1,0	264305 264306	264303	P0004

EXTERNAL PULLER SERIE 1900E

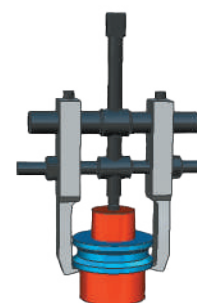
1900E



External bearing puller.
Includes side spindle so you can press the jaws.

Bullet points

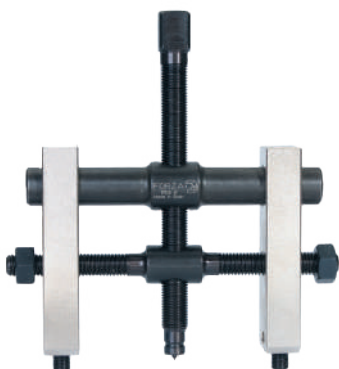
- Square head spindle for a better grip with a wrench.



Ref.	Diagram				Scales	Spare parts		Accessories
	A	B _{max}	B _{min}	E		Jaw	Spindle	Point protector
1904E	83	130	30	3	1,7	190415	130403	P0004
1907E	105	253	55	4	3,8	190715	130703	P0004



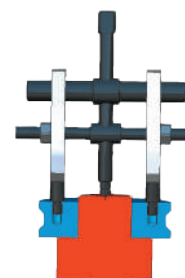
2 THREADED JAWS PULLER SERIE 1900R 1900R



Mounted as a push puller for pulling threaded holes. Includes side spindle so you can press the jaws.

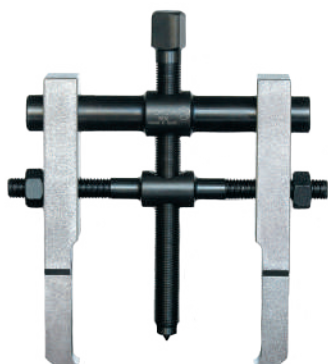
Bullet points

- Square head spindle for a better grip with a wrench.
- Threaded jaws for a correct grip on the workpiece.



Ref.				C	Conection		Spare parts		Accessories
							Male adaptor	Spindle	Point protector
1904R	50	140	42	87	3/8" 24h	1,7	1102306 - 1102308 1102310 - 1102312 110231-2	130403	P0004
1907R	66	253	67	110	5/8" 18h	4,5	1110312 - 1110314 1110316 - 1110318 1110320	130703	P0004

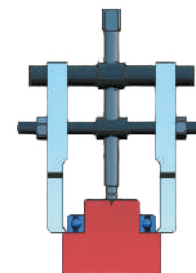
BEARING PULLER SERIE 1900 1900



Bearing separator. Mechanical puller. Includes side spindle so you can press the jaws.

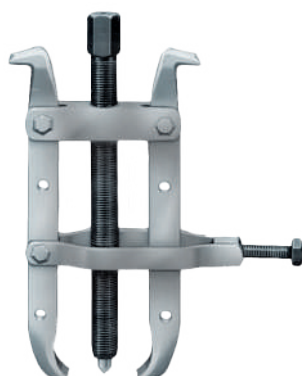
Bullet points

- Square head spindle for a better grip with a wrench.
- Specially for bearing removal.



Ref.					Spare parts		Accessories
					Jaw	Spindle	Point protector
1904	80	120	34	1,7	190415	130403	P0004
1907	110	245	59	4,8	190715	130703	P0004

BEARING PULLER SEPARATOR SERIE 2791 2791



Pulley and bearing stripper with gripper. Reversible jaws for external and internal applications. 3 jaws position.

Bullet points

- Clamp for locking the jaws.
- Specially for bearing removal.

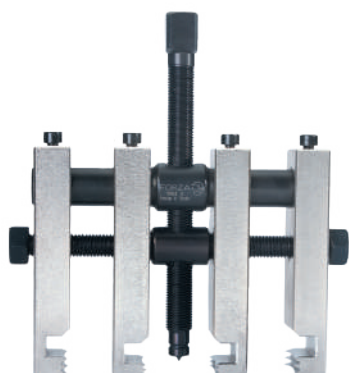


Ref.				Spare parts	
				Spindle	Jaw
2791	175	95	2,4	279103	279105



V-BELT PULLERS

1900V

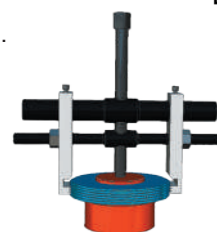






Special 2 jaw puller to pull out V-pulleys with 2.34 and 3.56 pitch. Includes side spindle so you can press the jaws.



Bullet points


- Square head spindle for a better grip with a wrench.
- Side spindle for a better fit.



Ref.				C (Body width)		Spare parts	
						Jaw	Spindle
1904V	60	115	35	85	2,3	190425 190426	130403
1907V	66	253	55	110	4,9	190725 190726	130703


JAW FOR SCISSORS PULLER SERIE 2640



Ref.	Jaw width (R)	Shovel depth (P)	Jaw thickness (E)	Useful jaw length (D)	Type	
264105	22	4	3	90	Narrow	0,1
264106	22	4	3	90	Wide	0,1
264115	12	4	3	90	Narrow	0,1
264116	12	4	3	90	Wide	0,1
264205	30	6,5	3,5	125	Narrow	0,2
264206	30	6,5	3,5	125	Wide	0,2
264305	30	6,5	3,5	125	Narrow	0,3
264306	30	6.5	3,5	125	Wide	0,2

JAW FOR BEARING PULLER SERIE 2791



Ref.	Total jaw length (L)	Jaw width (R)	Shovel depth (P)	Useful jaw length (D)	
279105	245	24	16	175	0,6



JAW FOR BEARING PULLER SERIE 1900E



Ref.	Total jaw length (L)	Jaw width (R)	Shovel depth (P)	Useful jaw length (D)	
190415	155	18	6	83	0,4
190715	200	28	8	110	0,6

JAW FOR BEARING PULLER SERIE 1900



Ref.	Total jaw length (L)	Jaw width (R)	Jaw radius (RP)	Useful jaw length (D)	
190405	155	18	R6	88	0,4
190705	200	28	R6	117	0,7

JAW FOR BEARING PULLER SERIE 1900V



Ref.	Total jaw length (L)	Jaw width (R)	Pitch	Useful jaw length (D)	
190425	115	28	2,34	59	0,4
190426	115	28	3,56	59	0,4
190725	140	38	2.34	67	0,6
190726	140	38	3.56	67	0,6

SPINDLE FOR 2643



Ref.	Thread	L (Length)	C (Distance between faces)	Head	Point	
264303	M14 x 1,5	200	17	Hexagonal	Fixed	0,1

SPINDLE FOR 2791



Ref.	Thread	L (Length)	C (Distance between faces)	Head	Point	
279103	M18 x 1,5	270	19	Hexagonal	Dummy	0,1

BALL BEARING PULLERS SET 1600-1

1600-1



Ball bearing puller set.
It is used mainly when the bearing is not accesible neither from the exterior neither from the interior.



Bullet points

- Bearing grip between tracks.
- No need to break the bearing.

Ref.	Useful jaw height			Spare part	
				Spindle	
1600-1	160	6000 a 6006-6200 to 6205-6300 to 6303	16002-16003-16100-16101	1,4	160103

BALL BEARING PULLERS SET 1600-2

1600-2



Ball bearing puller set.
It is used mainly when the bearing is not accesible neither from the exterior neither from the interior.



Bullet points

- Bearing grip between tracks.
- No need to break the bearing.

Ref.	Useful jaw height			Spare part	
				Spindle	
1600-2	196	6007 to 6012- 6206 to 6210- 6304 to 6307	62/28	2,4	160203

BALL BEARING PULLERS SERIE 1600-3

1600-3





Ball bearing puller set.
It is used mainly when the bearing is not accesible neither from the exterior neither from the interior.



Bullet points

- Bearing grip between tracks.
- No need to break the bearing.

Ref.	Useful jaw height			Spare part	
				Spindle	
1600-3	237	6013 to 6015 - 6208 to 6210 - 6018 to 6211	6212 - 63/28 - 6308 - 6311 - 6404 - 6403	7,1	160303



BALL BEARING PULLERS SET 1600A **1600-A**



Ball bearing puller set.
It is used mainly when the bearing is not accesible neither from the exterior neither from the interior.
Set consisting of pullers 1600-1; 1600-2; 1600-3.



Bullet points

- Bearing grip between tracks.
- No need to break the bearing.



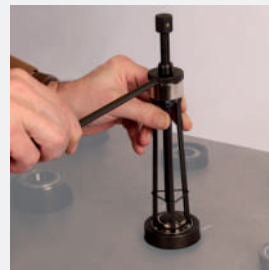
Ref.	Puller		Spare part
			Spindle
1600-A	1600-1; 1600-2; 1600-3	9,5	160103 160203 160303

SPINDLE PULLER 1600-1



Ref.	Thread	L (Length)	C (Distance between faces)	Head	Point	
160103	M10 X 1,5	215	17	Hexagonal	Dummy	0,1
160203	M14 X 1,5	235	20	Hexagonal	Dummy	0,4
160303	M18 X 1,5	315	24	Hexagonal	Dummy	0,6

Correct use instructions



BALL BEARING PULLERS SERIE 1700

1700





Bearing puller separator.
It is used mainly when the bearing is not accessible neither from the exterior neither from the interior.
Different collets to pull out bearings.



Bullet points


- Bearing grip between tracks.
- No need to break the bearing.



Ref.	Ref.			Collet	Spare part	
					Spindle	
1700-1	608-609	626-627-629	6000-6001	1,5	170608 - 170609 - 170626 170629 - 176000 - 176001	170103
1700-2	6002-6003	6200-6203	6300-6302	3,5	176002 - 176003 - 176200 176201 - 176202 - 176203 176300 - 176301 - 176302	170203
1700-3	6004-6005	6204-6206	6303-6306	7,0	176004 - 176005 - 176204 176205 - 176206 - 176303 176304 - 176305 - 176306	170303
1700-4	6006-6008	6207-6209	6307-6309	12,5	176006 - 176007 - 176008 176207 - 176208 - 176209 176307 - 176308 - 176309	170403
1700-5	6010-6012	6210-6212	6310-6312	17,5	176010 - 176011 - 176012 176210 - 176211 - 176212 176310 - 176311 - 176312	170503




BEARING PULLER WITHOUT GRIPS



Ref.	
S1701	1,0
S1702	1,7
S1703	3,3
S1704	5,9
S1705	9,7

BALL BEARING COLLETS FOR MECHANICAL PULLER



Ref.			Ref.			Ref.		
170608	608 & 627	0,1	176302	6302	0,1	176208	6208	0,4
170609	609	0,1	176004	6004	0,2	176209	6209	0,4
170626	626	0,1	176005	6005	0,2	176307	6307	0,4
170629	629	0,1	176204	6204	0,2	176308	6308	0,4
176000	6000	0,1	176205	6205	0,2	176309	6309	0,4
176001	6001	0,1	176206	6206	0,2	176010	6010	0,7
176002	6002	0,1	176303	6303	0,2	176011	6011	0,7
176003	6003	0,1	176304	6304	0,2	176012	6012	0,7
176200	6200	0,1	176305	6305	0,2	176210	6210	0,8
176201	6201	0,1	176306	6306	0,2	176211	6211	0,7
176202	6202	0,1	176006	6006	0,4	176212	6212	0,7
176203	6203	0,1	176007	6007	0,4	176310	6310	0,7
176300	6300	0,1	176008	6008	0,4	176311	6311	0,7
176301	6301	0,1	176207	6207	0,4	176312	6312	0,6



BEARING SEPARATOR SERIE 1700D **1700D**



Extrae el casquillo de los volantes de dirección de VW

Bearing separator specially designed puller for extracting bearings where it is not possible to insert puller legs.



Bullet points

- No free space required for extraction, simply pull out the bearing radius.

Ref.	Ømin	Ømax			Spare part
					Spindle
1716	14,5	16	625 - 634	0,3	171603
1719	17,5	19	607 - 626 - 635 - 135 - 126	0,3	171603
1722	20,5	22	608 - 627 - 127	0,7	171603
1724	22,5	24	609	0,7	171603
1726	24	26	629 - 6000 - 129	1,0	172603
1728	26	28	6001	1,0	172603
1730	28	30	6200 - 4200 - 7200 - 3200	1,3	172603
1732	30	32	16002 - 6002 - 6201 - 4201 - 7201 - 3201	1,3	172603
1735	33	35	16003 - 6003 - 6202 - 6300 - 4202 - 7202 7300 - 3202	1,4	172603
1737	35	37	6301 - 7301	2,3	170203
1740	37	40	6203 - 6302 - 4203 - 7203 - 6203	2,4	170203
1742	40	42	16004 - 6004 - 4302 - 7302 - 3302	2,5	170203
1747	42	47	16005 - 6005 - 62204 - 6303 - 4204 - 4303 - 7204 - 7303 - 3204 - 3303	2,7	170203

SPINDLES WITH HANDLE FOR SERIE 1700-1700D



Ref.	R (Thread)	L (Length)	Head	Point	
171603	M10 x 1,25	110	Handle	Fixed	0,1
172603	M14 x 1,5	133	Handle	Fixed	0,2
170103	M10 x 1	85	Handle	Dummy	0,1
170203	M16 x 1,5	116	Handle	Dummy	0,2
170303	M20 x 2	145	Handle	Dummy	0,3
170403	M26 x 2	160	Handle	Dummy	0,5
170503	M30 x 2	165	Handle	Dummy	0,7



MOUNTING BEARING SETS SERIE 4900

4900



Highly useful for mounting bearings.

The 33 aluminium rings are used for mounting and dismantling pulley, sheels...

Includes anti-rebound hammer and 3 aluminium tubes.



Bullet points

- Aluminium rings prevent bearing damage.










Ref.	Minimum bearing hole	Maximum bearing hole	Maximum outer diameter	Minimum outer diameter		Tube	Shell1	Shell
4900	10	50	110	26	8,5	49001 49002 49003	492610	
							492812	
							493010	494720 - 494725
							493212	495220 - 495225
							493215	495530 - 496225
							493510	496230 - 496235
							493510	496840 - 497230
							493515	497235 - 497545
							493517	498035 - 498040
							493712	498050 - 498545
							494017	499040 - 499050
							494215	4910045
							494220	
							494717	

Table of mounting bearings

ØI	ØE	Serie									
		6000-6200 6300-6400	7200B 7300B	1200-2200 1300-2300	3200 3300	21300 22200 22300	UN - NJ - N 20	30200 30300 31300	32200 32300		
Ø25	10	26	6000-16100								
	10	30		7208	129	3200					
	10	35	6300		1200-2200						
	12	28	6001-16101								
Ø38	12	32	6201	7201B	1201-2201	3201					
	12	37	6301	7301B							
	15	32	6002-16002								
Ø60	15	35	6202	7202B	1202-2202	3202			202	30202	
	15	42	6302	7302B	2302	3302				30302	
	17	35	6003-16003								
Ø60	17	40	6203	7203B	1203-2203	3203			203	30203	32203
	17	47	6303	7303B	1303-2303	3303			303	30303	32303
	20	42	6004-16004								
	20	47	6204	7204B	1204-2204	3204			204	32004	
Ø60	20	52	6304	7304B	1304-2304	3304	21304		304	30204	32304
	25	47	6055-16005								
	25	52	6205	7205B	1205-2205	3205			1005	32005	32205-33205
	25	62	6305-6404	7305B	1305-2305	3305	22205 21305		205 305	30205 30305-31305	32305
Ø60	30	55	6006-16006								
	30	62	6206	7206B	1206-2206	3206			1006	32006	32206-33206
	30	72	6306-6405	7306B	1306-2306	3306	22206 21306		206 306	30206 30306-31306	32306
	35	62	6007-16007								
Ø60	35	72	6207	7207B	1207-2207	3207			1007	32007	32207-33207
	35	80	6307-6406	7307B	1307-2307	3307	22207 21307		207 307	30207 30307-31307	32307
	40	68	6008-16008								
	40	80	6208	7208B	1208-2208	3208			1008	32008	32208-33208
Ø60	40	90	6308-6407	7308B	1308-2308	3308	22208 23208		208 308	30208-33108 30308-31308	32308
	45	75	6009-16009								
	45	85	6209	7209B	1209-2209	3209			1009	32009-33009	32309
	45	100	6309-6408	7309B	1309-2309	3309	22209 23209		209 309	33109-30209 30309-31309	
Ø60	50	80	6010-16010								
	50	90	6210	7210B	1210-2210	3210			1010	32010-33010	32210-33210
	50	100	6310-6409	7310B	1310-2310	3310	22210 23210		210 310	33110-30210 30310-31310	32310



BALL BEARING PULLERS SERIE 4100

4100S

Ball bearing puller set in case.

The 4100 series of pullers catch the bearing between bearing tracks thanks to the special design of the end of the jaws.

Its bowl shaper legs are inserted between the two tracks to ensure easy removal. Ideal for ball bearings that are inserted without disassembling the shaft.



Bullet points

- Ball jaws for quick removal.



Ref.	Ømin	Ømax	Ball diameters			Spare parts		Accessories	Spare part
						Spindle	Ball	Point protector	Puller
4100	20	95	5,3 a 8	6004 to 6010 - 6200 to 6205 - 6300 to 6304 - 61812 to 61816	1,1	110203	410011 410012 410013	1002K9	410000
4105	35	117	8 a 16	6008 to 6017 - 6205 to 6212 - 6304 to 6308 - 6404 to 6405	3,1	411003	411013A 411014 411015 411016 411017A	4110K9	410500
4125	62	195	16 a 31,5	6018 to 6030 - 6212 to 6224 - 6309 to 6319 - 6407 to 6414	5,9	101031	412507 412508 412509 412510 412511 412512	-	412500



WATCH VIDEO



BALL BEARING PULLERS WITHOUT BALLS



41000



The 4100 serie of pullers catch the bearing between bearing races thanks to the special design of the end of the jaws. Ideal for ball bearings that are inserted without disassembling the shaft. It is necessary to purchase the setballs.

Bullet points

- Ball jaws for quick removal.

Ref.	Ømin	Ømax			Spindle	Spare parts	
						Ball	Point protector
410000	20	95	6004 to 6010 - 6200 to 6205 - 6300 to 6304 - 61812 to 61816	0,5	110203	410011 410012 410013	1002K9
410500	35	117	6008 to 6017 - 6205 to 6212 - 6304 to 6308 - 6404 to 6405	0,5	411003	411013A 411014 411015 411016 411017A	4110K9
412500	62	195	6018 to 6030 - 6212 to 6224 - 6309 to 6319 - 6407 to 6414	2,9	101031	412507 412508 412509 412510 412511 412512	-

SET OF BALLS



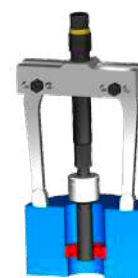
Ref.	Ø	Ref.	Ø
410011	5,3	411017A	16
410012	6	412507	16
410013	8	412508	19
411013A	8	412509	22
411014	9	412510	25
411015	11	412511	28
411016	12,6	412512	31,5



INTERNAL COLLETS SERIE 2500 25000








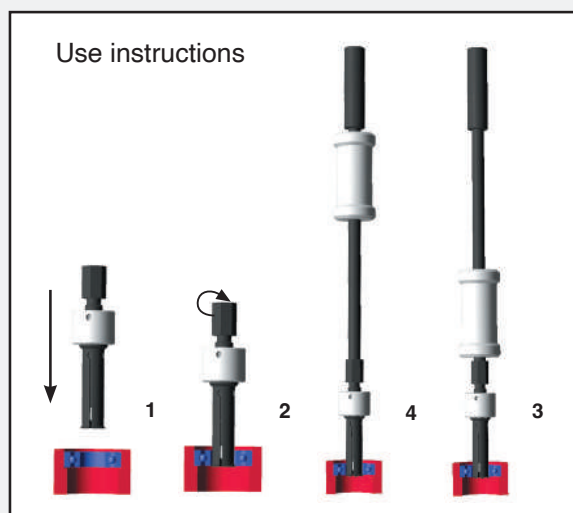
Collet type internal puller.
 Made in CrVa steel.
 With 2 system of extraction: slide hammer and push puller with jaws.



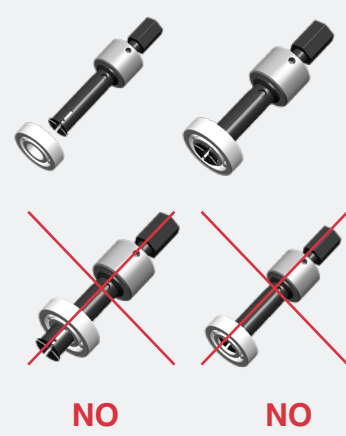
Bullet points

- Compatible with two extraction systems.
- Perfect for extractions without space under the workpiece.

Ref.	 \varnothing_{max}	 \varnothing_{min}	 M			Accessories		Spare part		
						Slide hammer	Push puller	Spindle	Collet	Housing
2500	7	5	M10X1,5	11	0,1	2524 2534	2521 2521A	250007	250005	-
2510	11	8	M10X1,5	21	0,1	2524 2534	2521 2521A	251007	251005	-
2511	15	12	M10X1,5	28	0,1	2524 2534	2521 2521A	251107	251105	251101
2512	19	16	M10X1,5	35	0,2	2524 2534	2521 2521A	251207	251205	251101
2513	26	20	M10X1,5	35	0,3	2524 2534	2521 2521A	251307	251305	251301
2514	34	28	M10X1,5	60	0,4	2524 2534	2521 2521A	251407	251405	251301
2515	44	35	M16X2	60	0,7	2524 2534	2522 2523	251507	251505	251501
2515A	44	35	M10X1,5	75	0,4	2524 2534	2521 2521A	251407	251515	251301
2516	58	45	M16X2	90	0,9	2524 2534	2522 2523	251507	251605	251501
2517	75	57	M16X2	110	2,2	2524 2534	2522 2523	251707	251705	251701
2518	100	74	M16X2	130	3,4	2524 2534	2522 2523	251707	251805	251701



1. Insert the collet into the hole.
2. Re-open the collet as much as possible by turning the spindle.
3. Use the slide hammer or push puller.
4. Hit with the slide hammer or turn the spindle.



IMPORTANTE

Expanded the caliper just past the bottom of the bearing to be removed.
 If we go overboard when using the impact bar, we will hit the legs unduly.
 If we expand to half the bearing before, the caliper will come out without removing the bearing.

INTERNAL COLLETS SERIE 4000

40000



Collet type internal puller.

Elastic collet type from 2 to 6 cuts depending of the diameter .





Made in CrVa steel.

With 2 system of extraction: slide hammer 4390(1kg) and 4393(2kg) and push puller with jaws 4392 without adapters.



Bullet points

- Perfect for extractions without space under the workpiece.
- Compatible with two extraction systems.

Ref.	 Ømax	 Ømin	 M		Accessories		Spare part		
					Spindle	Collet	Push puller	Slide hammer	
4000	8	6	M8X1,25	11	0,1	400007	400005	4521	4590
4010	10	8	M8X1,25	15	0,1	400007	401005	4521	4590
4010A	11	9	M8X1,25	40	0,1	401107	401015	4521	4590
4011	13	11	M8X1,25	40	0,1	401107	401105	4521	4590
4012	17	13	M8X1,25	48	0,1	401207	401205	4521	4590
4013	23	18	M8x1,25	56	0,2	401307	401305	4522	4590
4014	30	23	1/2"20h	71	0,3	401407	401405	4522	4590
4015	37	30	1/2"20h	80	0,7	401507	401505	4522	4590
4016	52	38	1/2"20h	84	1,3	401607	401605	4522	4590
4017	62	49	1/2"20h	86	1,5	401607	401705	4522	4590

INTERNAL COLLETS SERIE 4300

4300



Collet type internal puller.

Elastic collet type from 2 to 6 cuts depending of the diameter.





Made in CrVa steel.

With 2 system of extraction: slide hammer 4590 and push puller with jaws 4521 and 4522.



Bullet points

- Perfect for extractions without space under the workpiece.
- From collect 4320 upwards, they are equipped with a hardened false point for a softer opening of the jaws.

Ref.	 Ømax	 Ømin	 M		Accessories		Spare part			
					Slide hammer	Push puller	Spindle	Collet	Housing	
4305	7	5	1/2" 20h	27	0,1	4390 - 4393	4392	430507	250005	-
4308	11	8	1/2" 20h	40	0,1	4390 - 4393	4392	430807	251005	-
4312	14	12	1/2" 20h	64	0,3	4390 - 4393	4392	431207	431205	431201
4315	19	15	1/2" 20h	64	0,3	4390 - 4393	4392	431507	431505	431201
4320	24	20	1/2" 20h	65	0,3	4390 - 4393	4392	432030	432005	431201
4325	29	25	1/2" 20h	65	0,4	4390 - 4393	4392	432030	432505	431201
4330	37	30	1/2" 20h	65	0,4	4390 - 4393	4392	432030	433005	431201
4338	45	38	1/2" 20h	65	0,6	4390 - 4393	4392	432030	433805	431201
4347	54	46	1/2" 20h	88	1,4	4390 - 4393	4392	434730	434705	434701
4355	64	55	1/2" 20h	89	1,6	4390 - 4393	4392	434730	435505	434701
4365	76	65	1/2" 20h	89	2,0	4390 - 4393	4392	434730	436505	434701



INTERNAL COLLETS SERIE 4400 4400



Collet type internal puller.

Elastic collet type from 2 to 6 cuts depending of the diameter

Made in CrVa steel.

With 2 system of extraction: slide hammer 4390(1kg) and 4393(2kg) and push puller with jaws 4392 without adapters.

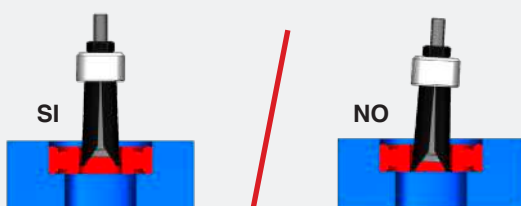


Bullet points

- Perfect for extractions without space underneath the workpiece.
- Compatible with two extraction systems.
- From de 4420 collet, the pressure spindle has an insert point, hardened at 55HRc so that the collet opens more smoothly.
- The upper thread of the collet is eliminated, making its assembly easier.
- The locking wrench improves the grip of the extractor.

Ref.						Accessories		Spare parts			
						Slide hammer	Push puller	Spindle	Housing	Collet	Collet wrench
4412	14	12	1/2" 20h	64	0,3	4390 4393	4392	431207	441201	441205	441220
4415	19	15	1/2" 20h	64	0,3	4390 4393	4392	431507	441201	441505	441220
4420	24	20	1/2" 20h	65	0,4	4390 4393	4392	432030	441201	442005	441220
4425	29	25	1/2" 20h	65	0,5	4390 4393	4392	432030	441201	442505	441220
4430	37	30	1/2" 20h	65	0,5	4390 4393	4392	432030	441201	443005	441220
4438	45	38	1/2" 20h	65	0,7	4390 4393	4392	432030	441201	443805	441220
4447	54	46	1/2" 20h	88	1,5	4390 4393	4392	434730	444701	444705	444720
4455	64	55	1/2" 20h	89	1,7	4390 4393	4392	434730	444701	445505	444720
4465	76	65	1/2" 20h	89	2,1	4390 4393	4392	434730	444701	446505	444720

ATTENTION WHEN INSERTING THE CLAMP



Be careful NOT to insert the forceps bent as it may break during extractions


ATTENTION WITH THE SLIDE HAMMER

The internal collets sometimes could be broken. Especially when the slide hammer is used. As well it is very common to brake the collet when the slide hammer it is not at straight position.




SPINDLES FOR COLLET SERIE 2500



Ref.	R (Conection)	L (Length)	
250007	M10	74	0,1
251007	M10	80	0,1
251107	M10	93	0,1
251207	M10	95	0,1
251307	M10	95	0,1
251407	M10	100	0,1
251507	M16	146	0,2
251707	M16	188	0,4


SPINDLES FOR COLLET SERIE 4000



Ref.	R (Conection)	L (Length)	C (Distance between faces)	Head	Point	
400007	M8X1,25	78	12	Hexagonal	Without point	0,1
401107	M8X1,25	92	12	Hexagonal	Without point	0,1
401207	1/2" UNF 20h	101	17	Hexagonal	Without point	0,1
401307	M8X1,25	107	14	Hexagonal	Without point	0,1
401407	1/2" UNF 20h	124	17	Hexagonal	Without point	0,2
401507	1/2" UNF 20h	139	22	Hexagonal	Without point	0,2
401607	1/2" UNF 20h	155	32	Hexagonal	Without point	0,7


SPINDLES FOR COLLET SERIE 4300-4400



Ref.	R (Thread)	L (Length)	C (Distance between faces)	Head	Point	
430507	1/2" UNF 20h	79	15	Two flat for wrench	Without point	0,1
430807	1/2" UNF 20h	85	15	Two flat for wrench	Without point	0,1
431207	1/2" UNF 20h	101	17	Hexagonal	Without point	0,1
431507	1/2" UNF 20h	116	17	Hexagonal	Without point	0,1
432030	1/2" UNF 20h	110	17	Hexagonal	Without point	0,1
434730	1/2" UNF 20h	150	24	Hexagonal	Without point	0,4


COLLETS FOR SERIE 2500



Ref.	Diameter min	Diameter max	Spindle metric	
251515	35	47		0,2
250005	5	7	M10x1,5	0,1
251005	8	11	M10x1,5	0,1
251105	12	15	M10x1,5	0,1
251205	16	19	M10x1,5	0,1
251305	20	26	M10x1,5	0,1
251405	28	34	M10x1,5	0,2
251505	35	44	M16x2	0,2
251605	45	58	M16x2	0,4
251705	57	75	M16x2	1,3


COLLETS FOR SERIE 4000



Ref.	Diameter min	Diameter max	Spindle metric	
400005	6	8	M8x1,25	0,1
401005	8	10	M8x1,25	0,1
401015	9	11	M8x1,25	0,1
401105	11	13	M8x1,25	0,1
401205	13	17	M8x1,25	0,1
401305	18	23	M8x1,25	0,1
401405	23	30	1/2"20h	0,2
401505	30	37	1/2"20h	0,4
401605	38	38	1/2"20h	0,7
401705	49	62	1/2"20h	0,9


COLLETS FOR SERIE 4300



Ref.	Diameter min	Diameter max	
431205	12	14	0,1
431505	15	19	0,1
432005	20	24	0,1
432505	25	29	0,1
433005	30	37	0,2
433805	38	45	0,3
434705	46	54	0,6
435505	55	64	0,8
436505	65	76	1,3


COLLETS FOR SERIE 4400



Ref.	Diameter min	Diameter max	
441205	12	14	0,1
441505	15	19	0,1
442005	20	24	0,1
442505	25	29	0,1
443005	30	37	0,2
443805	38	45	0,3
444705	46	54	0,7
445505	55	64	0,8
446505	65	76	1,3

WRENCH FOR COLLETS 4400




Ref.	Lenght	C (Distance between faces)	
441220	130	19	0,1
444720	135	32	0,1

EXTENSIONS

Extensions for collets.


The 431250 extension is for collets from 4312 to 4338.
The 434750 extension is for collets from 4347 to 4365.



Ref.	External Diameter	L (Length)	
431250	33	150	0,1
434750	45	170	0,2

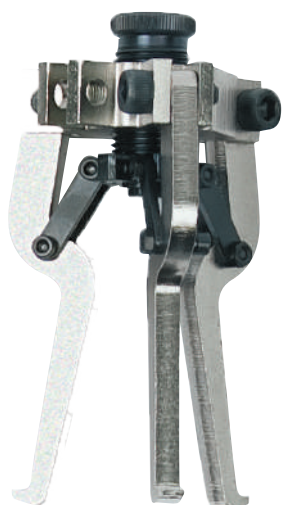
HOUSINGS



Ref.	External Diameter	
251101	26	0,1
251301	34	0,1
251501	43	0,2
251701	62	0,4
431201	33	0,1
434701	45	0,3
441201	33.	0,1
444701	45.	0,2



INTERNAL AND EXTERNAL SERIE 4702 4702






Puller with two sets of very thin jaws for internal and external extractions
It can be mounted with 2 or 3 jaws.
470205 is the jaw for external extractions up to 75mm and internal extraction from 60 to 100 mm.
470215 is the jaw for internal extractions from 25 to 60mm.



Bullet points

- Self-centring system: automatic centring of the jaws for better grip.

Ref.	 \varnothing int	 \varnothing ext	A (Useful jaw height) with 470205	A (Useful jaw height) with 470215		Spare parts	
						Spindle	Internal jaw
4702	25-100	0-75	55	45	0,5	470213	470215

PULLER WITH SLIDE HAMMER SERIE 4702 4702C






Puller with two sets of very thin jaws for internal and external extractions
It can be mounted with 2 or 3 jaws.
470205 is the jaw for external extractions up to 75mm and internal extraction from 60 to 100mm.
470215 is the jaw for internal extractions from 25 to 60mm.
A slide hammer 4390 (1kg) is included.



Bullet points

- Self-centring system: automatic centring of the jaws for better grip.

Ref.	 \varnothing int	 \varnothing ext	Slide hammer	Includes		Spare parts		
						Spindle	Internal jaw	External jaw
4702C	25-100	0-75	4390	2 sets of 3 external jaws	2,0	470213	470215	470205



INTERNAL AND EXTERNAL SERIE 4704

4704

Puller with two sets of very thin jaws for internal and external extractions. It can be mounted with 2 or 3 jaws.

470405 is the jaw for external extractions from 40mm to 130 mm and internal extraction from 95 to 150 mm. 470415 is the jaw for internal extractions from 45 to 97mm.



With two extraction systems: slide hammer 4394 (2kg) or 4396 (5kg) and push puller 1110 without adapters.

Bullet points

- Perfect for cylinder liners.
- Self-centring system: automatic centring of the jaws for better grip.



Ref.	int	ext	A(Useful heigh) with 470405	A(Useful heigh) with 470415		Spare parts		
						Spindle	Internal jaw	External jaw
4704	45-150	10-130	65	145	3,1	470413	470415	470405

SERIE 4704 PULLER WITH PUSH PULLER

4704C



Puller with two sets of very thin jaws for internal and external extractions. It can be mounted with 2 or 3 jaws.

470405 is the jaw for external extractions from 40mm to 130 mm and internal extraction from 95 to 150 mm.

470415 is the jaw for internal extractions from 45 to 97mm.



With two extraction systems: slide hammer 4394 (2kg) or 4396 (5kg) and push puller 1110 without adapters. Slide hammer 4394 (2kg) is included.

Bullet points

- Perfect for cylinder liners
- Self-centring system: automatic centring of the jaws for better grip.

Ref.	int	ext	A(Useful heigh) with 470405	A(Useful heigh) with 470415		Accessories
						Slide hammer
4704C	45-150	10-130	65	145	6,4	4394



INTERNAL JAW PULLERS SERIE 4708 **4708**







Three-jaw internal puller.
It can be mounted with the push puller 1120.



Bullet points

- Perfect suitable for cylinder liners.
- Self-centring system: automatic centring of the jaws for better grip.



Ref.					Accessorie		Spare part	
					Push puller	Spindle	Jaw	
4708	300	130	315	10,3	1120	470813	180905	




RECOMENDATION

In case of internal pulling with diameter >60 mm use the external pulling legs inverted.


INTERNAL JAW FOR PULLER 4702-4704



Ref.	Total jaw length (L)	Jaw width (R)	Shovel depth (P)	Useful jaw length (D)		Spare part
						External jaw
470215	97	8	4	45	0,1	470205
470415	172	10	5	82	470405	

EXTERNAL JAW FOR PULLER 4704




Ref.	Total jaw length (L)	Jaw width (R)	Shovel depth (P)	Useful jaw length (D)		Spare part
						Internal jaw
470205	100	8	6	55	0,1	470215
470405	164	15	6	120	0,2	470415




JAW FOR INTERNAL PULLER SERIE 1500-1500A-1500H



Ref.	Total jaw length (L)	Jaw width (R)	Shovel depth (P)	Useful jaw length (D)	
150605	240,5	30	4,5	115	0,4
150705	261,5	25	4	140	0,5
150905	306,5	50	8	150	1,1

ADJUSTING SPINDLE 4702



Ref.	R (Conection)	L (Length)	Ø	
470213	1/2" UNF 20h	39	20	0,1


SPINDLES FOR INTERNAL PULLERS SERIE 1500-1500A-1500H



Ref.	R (Thread)	L (Length)	C (Distance between faces)	Head	Point	
150622	7/16" 14h	141	17	Hexagonal	Without point	0,1
150603	5/8" UNF 18h	268	20	Hexagonal	Fixed	0,5
150922	M16 x 1,5	218	19	Hexagonal	Without point	0,3

ADJUSTMENT SPINDLES 4704 4708



Ref.	R (Thread)	L (Length)	C (Distance between faces)	Head	Point	
470413	5/8" UNF 18h	107	32	Hexagonal	Without point	0,6
470813	1" 3/8 12h	201	36	Hexagonal	Without point	1,3



INTERNAL JAW PULLERS SERIE 1500 1500

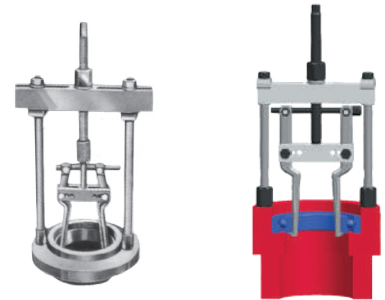


Internal puller.
Can be mounted with push puller 1100.
1506 and 1507 can be used with the slide hammer 4394 and 4396.



Bullet points

- With position regulated spindle for adjusting the jaws.
- Can be used to remove liners.



Clamping the knob by the spindle becomes 1500A

Ref.								Accesorio		Repuestos	
								Push puller	Spindle	Jaw	
1506	115	145	40	133	1" 14h	5/8" 18h	2,4	1110 1120 1128	150622	150605	
1507	140	160	32	133	1" 14h	5/8" 18h	2,6	1110 1120 1128	150622	150705	
1509	150	240	60	202	1 1/2" 12h	1" 14h	6,0	1120 1128 1135	150922	150905	

INTERNAL SERIE 1500A 1500A

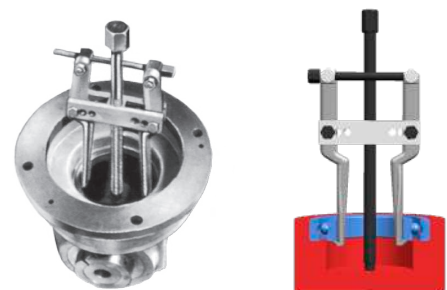


Internal puller with spindle for a direct extraction.
Can be mounted with push puller serie 1100 and slide hammers 4394 and 4396 by removing the spindle.



Bullet points

- With position regulated spindle for adjusting the jaws.



It is used when it is possible to place the spindle to the shaft

Ref.						Accessories		Spare parts	
						Push puller	Slide hammer	Jaw	Spindle
1506A	115	145	40	133	2,4	1110	4394 4396	150605	150603 150922
1507A	140	160	32	133	2,6	1110	4394 4396	150705	150603 150922
1509A	150	240	60	202	6,5	1120	4394 4396	150905	150922



PUSH PULLER SERIE 2500

2500P






Push puller for the 2500 serie internal collets. 2521 and 2521A have spindle with handle. 2522 and 2523 spindle has hexagonal head. 2523 has articulated jaws for better seating.



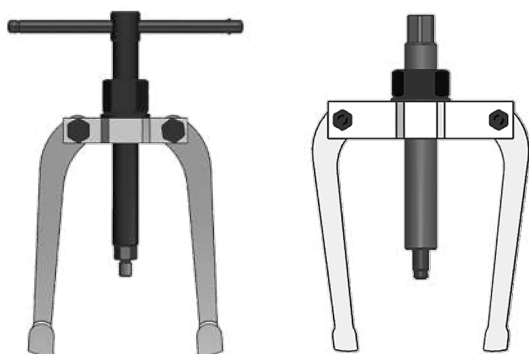
Bullet points

- Higher extraction force than the slide hammer.

Ref.			R		Accessorie	Spare part
					Collet	Jaw
2521	128	85	M10X1,5	0,8	2500 to 2515A	252105
2521A	128	110	M10X1,5	0,9	2500 to 2515A	252105
2522	154	135	M16X2	2,2	2515 2516	252205
2523	234	225	M16X2	3,3	2515 2518	252305

PUSH PULLER SERIE 4500

4500






Push puller for the 4000 serie internal collets. 4521 and 4521A have spindle with handle. 4522 spindle has hexagonal head.



Bullet points

- Higher extraction force than the slide hammer.

Ref.			R	
4521	128	85	M8	0,9
4521A	128	110	M8	0,9
4522	154	135	1/2"UNF20h	2,2

PUSH PULLER SERIE 4392

4392




Push puller for the 4300 and 4400 serie internal collets.

Bullet points

- Higher extraction force than slide hammer.
- Single push puller for all 4300 and 4400 collets.
- 3 positioned jaws for different openings.



Ref.	To	Height	Conection	Maximum opening	Jaw useful height	Bodi width		Spare parts	
								Jaw	Spindle
4392	138	124	1/2"20h	138	124	130	1,5	252105	439230



SLIDE HAMMER WITH ADAPTORS **2500B**

Slide hammer of 2 kg.
 2524 and 2534 includes 2 adaptors M10 and M16 covering all 2500 collets.
 4590 includes adaptor 1 x 1/2" 20h to M8 covering all 4000 collets.



Bullet points

- Slide hammer extraction is the most efficient and quickest with small collets.

Ref.				Spare part		
				Slide hammer	Female adaptor	Male adaptor
2524	M10 x 1,5	M16 x 2	1,6	4390	2525 2526	-
2534	M10 x 1,5	M16 x 2	3,5	4394	2525 2526	-
4590	M8 x 1,25	-	1,7	4390	-	4020

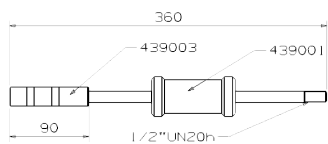
SLIDE HAMMER SERIE 4390 **4390**

Slide hammer of 1 kg.
 Most common slide hammer.
 No adaptor needed for serie 4300 and 4400 collets.



Bullet points

- Slide hammer extraction is the most efficient and quickest with small collets.



Ref.				Accessories	
		Mass		Male adaptor	Female adaptor
4390	1/2"20h	1Kg	1,5	4020 196020 196021	2525 2526

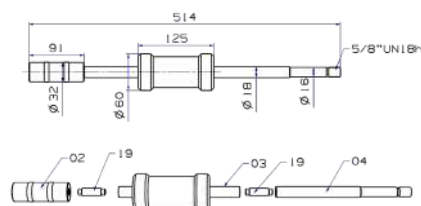
SLIDE HAMMER SERIE 4393 **4393**

Slide hammer of 2 kg.
 A different thread on each side of the bar for mounting various accessories: 1/2" 20h UN and 5/8" 18h UN.
 Specially designed for 7504 and 7504I pullers.



Bullet points

- The impact bar extraction is the most efficient and fastest extraction with small collets.
- Can be mounted in short position for extractions in confined spaces.



Ref.			Mass		Accessorie
					Male adaptor
4393	5/8"18h	1/2" 20h	2kg	3,4	4020 196020 196021



SLIDE HAMMER SERIE 4394

4394



Slide hammer of 2 kg.
A different thread on each side of the bar for mounting various accessories: 1/2" 20h UN and 5/8" 18h UN.



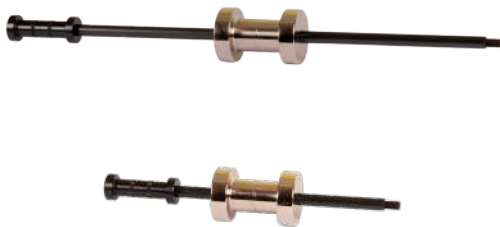
Bullet points

- The slide hammer extraction is the most efficient and fastest extraction with small collets.
- Can be mounted in short position for extractions in confined spaces.

Ref.	M	M	Mass	⚖️	Accessories	
					Male adaptor	Female adaptor
4394	1/2"20h	5/8"18h	2Kg	3,4	110231-2	
					1110312	
					1110314	11104121
					1110316	11104122
					1110318	11104124
					1110320	11104142
					11103122	11104162
					11103124	2525
					11103142	2526
					11103162	
11103202						

SLIDE HAMMER SERIE 4396

4396

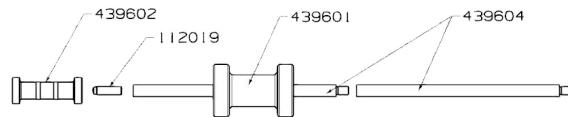


Slide hammer of 5 kg.
A different thread on each side of the bar for mounting various accessories: 1/2" 20h UN and 5/8" 18h UN.



Bullet points

- Can be mounted in short position for extractions in confined spaces.
- Powerful tool for extractions with large collets and internal pullers.



Ref.	M	M	Mass	⚖️	Accessories	
					Male adaptor	Female adaptor
4396	1/2"20h	5/8"18h	5Kg	8,6	110231-2	
					1110312	
					1110314	11104121
					1110316	11104122
					1110318	11104124
					1110320	11104142
					11103122	11104162
					11103124	2525
					11103142	2526
					11103162	
11103202						



PNEUMATIC THREADED SPLIT PINS SET 4380



iAlternative to slide hammer!



Ideal pneumatic tool for extracting threaded pins and for use with collets and internal pullers. It is an air-controlled tool that reduces the time and effort of pulling with a traditional slide hammer.

Consists of cylinder, hose and the following adapters:


- 1 - Adapter 438006 M14 to M6x1 Male
- 2 - Adapter M14 to M8x1 Male
- 3 - Adapter 438008 M14 to M8x1.25 Male
- 4 - Adapter 438010 M14 to M10x1.5 Male
- 5 - Adapter 438012 M14 to M12x1.75 Male
- 6 - Adapter 438014 M14 to M14x2 Male
- 7 - Adapter 438020 M14 to 1/2" 20h Male
- 8 - Adapter 438025 M14 to M10x1.5 Female
- 9 - Adapter 438026 M14 to M16x2 Female

				Spare parts
Ref.	Contains	Contains		Adaptor
4380	Hose	Pneumatic cylinder	5,1	438006 - 438008 438010 - 438012 438014 - 438020 438025 - 438026




JAW FOR PUSH PULLER SERIE 2500-4392



Ref.	Total jaw length (L)	Jaw width (R)	Useful jaw length (D)	
252105	144	11	128	0,1
252205	178,5	12	154	0,2
252305	234,7	20	234	0,5

COMPLETE SPINDLE FOR 4392



Ref.	R (Thread)	L (Length)	C (Distance between faces)	
439230	M20X2,5 left	130	22	0,4



INTERNAL PULLER SETS 25-1 **25J**



Set of 6 internal collets.
Two systems for extraction: slide hammer 4390 and push puller 2521.
Including adapter 2525 (M10).
In plastic case.



Bullet points

- Perfect for extractions without space underneath the workpiece.

Ref.	Ømin	Ømax	Collets that contains		Push puller	Slide hammer	Female adaptor
25-1	5	34	2500 to 2514	6,0	2521	4390	2525

INTERNAL PULLER SET SERIE 25-2 **25-2**



Set of 8 internal collets.
Two extraction systems: slide hammer 4390 and push pullers 2521 and 2522.
Including adapters 2525(M10) and 2523(M16).
In plastic case.



Bullet points

- Perfect for extractions without space underneath the workpiece.

Ref.	Ømin	Ømax	Collets that contains		Push puller	Slide hammer	Female adaptor
25-2	5	58	2500 a 2516	9,8	2521 2522	4390	2525 2526

INTERNAL PULLER SET WITH SLIDE HAMMER AND PUSH PULLER **25-14**



Set of 7 internal collets.
Two systems for extraction: slide hammer 4390 and push puller 2521A.
Including adapter 2525 (M10).
In plastic case.



Bullet points

- Perfect for extractions without space under the workpiece.
- Push puller with larger opening.

Ref.	Ømin	Ømax	Collets that contains		Push puller	Slide hammer	Female adaptor
25-14	5	44	2500 a 2515A	6,0	2521A	4390	2525



INTERNAL PULLER SET WITH PUSH PULLER


25-17

Set of 3 internal collets.
Contains large push puller 2523.
In plastic case.



Bullet points

- Perfect for extractions without space underneath the workpiece.
- Push puller with articulated jaws for better seating.

Ref.	Ømin	Ømax		Collet	Push puller
25-17	45	100	11,8	2516 2517 2518	2523

INTERNAL MECHANICAL PULLERS SET Ø6 to Ø37

40-1

Set of 7 internal collets.
Contains 4390 slide hammer.
Includes 4020 (M8) adaptor.



Bullet points

- Perfect for extractions without space underneath the workpiece.



Ref.	Ømin	Ømax	Collets that contains		Slide hammer	Male adaptor
40-1	6	37	4000-4015	4,5	4390	4020

INTERNAL MECHANICAL PULLERS SET Ø6 to Ø62

40-2


Set of 9 internal collets.
With two puller systems: slide hammer 4390 and push puller 1110.
Including adaptors 4020 (1/2 to M8), 4022 (5/8" to M8) and 4023 (5/8" to 1/2").



Bullet points

- Perfect for extractions with little space under the workpiece.
- Push puller 1110 up to 10 ton.



Ref.	Ømin	Ømax	Collets that contains		Push puller	Slide hammer	Male adaptor
40-2	6	62	4000-4017	11,8	1110	4390	4020 4022 4023



INTERNAL MECHANICAL PULLERS SET SERIE 43 **43**



Set of internal collets.
Depending on the set may include: push puller and/or slide hammer.



Bullet points

- Perfect for extractions without space under the workpiece.
- Compatible with two extraction systems.

Ref.	Ømin	Ømax	Slide hammer	Push puller	Collets that continens	
43-10	5	37	4390	-	4305 to 4330	3,6
43-11	5	37	-	4392	4305 to 4330	3,5
43-22	5	45	4390	4392	4305 to 4338	5,5
43-30	12	45	4390	-	4312 to 4338	3,7
43-31	12	45	-	4392	4312 to 4338	3,7
43-42	5	76	4390	4392	4305 to 4365	8,6
43-52	20	76	4390	4392	4320 to 4365	8,3

INTERNAL MECHANICAL PULLERS SET SERIE 44 **44**



Set of internal collets and locking wrench.
Depending on the set may include: jumper and/or slide hammer.



Bullet points

- Perfect for extractions without space under the workpiece.
- Compatible with two extraction systems.

Ref.	Ømin	Ømax	Slide hammer	Push puller	Collets that continens	Wrench for collet	⚖️
44-30	12	45	4390	-	4412 to 4438	441220	3,8
44-31	12	45	-	4392	4412 to 4438	441220	3,8
44-45	20	54	4390	-	4420 to 4447	441220 & 444720	5,6
44-47	5	20	4390	4392	4420 to 4447	441220 & 444720	6,4
44-52	7	20	4390	4392	4420 to 4465	441220 & 444720	8,5
44-57	12	76	4390	4392	4420 to 4465	441220 & 444720	8,8

INTERNAL & EXTERNAL MECHANICAL PULLERS SET SERIE 4720 **4720**



Puller set for internal and external extractions.
The set includes:
-Three collets for internal extractions from 12 to 24mm diameter.
- Puller 4702 with two sets of very thin jaws for internal and external extractions. It can be mounted with 2 or 3 jaws.
470205 is the jaw for external extractions up to 75mm and internal extraction from 60 to 100 mm.
470215 is the jaw for internal extractions from 25 to 60mm.
A slide hammer 4390 (1kg)is included.



Bullet points

- Perfect for extractions without space under the workpiece.
- Slide hammer for easy extraction.

Ref.	Internal diameter	External Diameter	4312 Collet diameter	4315 collet diameters	4320 collet diameters	⚖️
4720	12-100	0-75	12-14	15-19	20-24	4,3



2/3 JAWS INTERNAL ADJUSTABLE PULLER

7500I




Self-centring, adjustable pullers for internal applications. The puller 7504I has the possibility to use the slide hammer 4393. Opening of the jaws with the handle.



Bullet points

- Hexagon headed spindle
- Increased pull-out capacity due to the design of the jaws
- Patented self-centring system.

Ref.	Jaws	Ømax	Ømin	Jaw useful height	TON		Spare parts	
							Jaw	Spindle
7504I	2	155	40	143	4	2,5	750415	750403
7504IT	3	155	40	143	4	3,6	750415	750403

2/3 JAWS INTERNAL+EXTERNAL AJUSTABLE PULLER

7504IC0

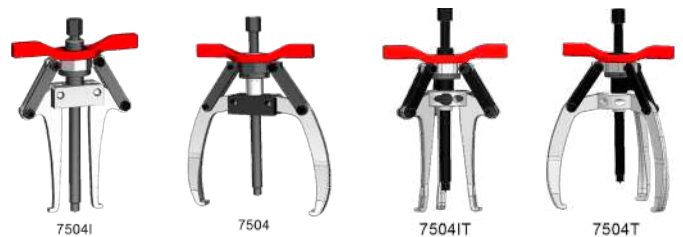



Self-centring, adjustable pullers internal and external use. External jaws included. Possibility to work with slide hammer 4393. Opening of the jaws with the handle.



Bullet points

- Hexagon headed spindle.
- Increased pull-out capacity due to the design of the jaws.
- Patented self-centring system.



Ref.	Jaws	Ømax	Jaw useful height	TON	Ømin	Includes		Spare parts	
								Jaw	Spindle
7504IC	2	155	143	4	40	2 jaws to convert external	2,9	750405 750415	750403
7504ICT	3	155	143	4	40	3 jaws to convert external	3,2	750405 750415	750403



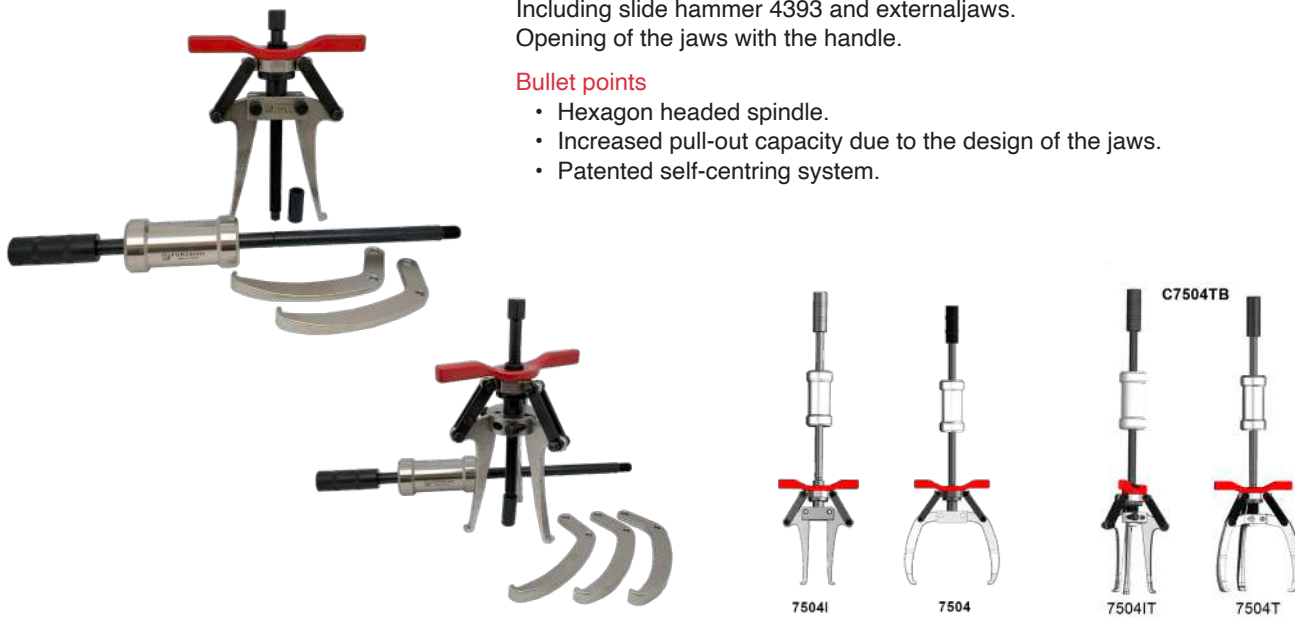
INTERNAL AND EXTERNAL AJUSTABLE PULLER WITH SLIDE HAMMER C7504B0

Self-centring, adjustable pullers for external and internal use. Including slide hammer 4393 and external jaws. Opening of the jaws with the handle.



Bullet points

- Hexagon headed spindle.
- Increased pull-out capacity due to the design of the jaws.
- Patented self-centring system.



Ref.	Internal minimum diameter	Internal maximum diameter	A (Useful jaw height)	External minimum diameter	External maximum diameter	TON	Spare parts		⚖️
							Slide hammer	Jaws	
C7504B	25	155	143	30	186	4	4393	2 jaws	5,9
C7504TB	25	155	143	30	186	4	4393	3 jaws	7,1

INTERNAL JAW FOR PULLER 7500I-7500IC



Ref.	Total jaw length (L)	Jaw width (R)	Shovel depth (P)	Useful jaw length (D)	⚖️
750415	174	13	7	143	0,4
751015	248,6	24	11	205	1,0



INTERNAL AND EXTERNAL AJUSTABLE PULLER SET 7504KI

7504KI




Self-centring, adjustable pullers for external and internal use.
External jaws included.
Possibility to work with slide hammer 4393.
Opening of the jaws with the handle.



Bullet points

- Hexagon headed spindle.
- Increased pull-out capacity due to the design of the jaws.
- Patented self-centring system.
- Plastic case.

Ref.	Jaws	Ømax	Jaw useful height	TON	Ømin	Includes	
7504KI	2	155	143	4	40	2 jaws to convert external	3,4

INT. AND EXT. 2/3 JAWS ADJUSTABLE PULLER SET WITH SLIDE HAMMER

7504KIT




Self-centring, adjustable pullers for external and internal use.
Including 3 jaws body and slide hammer 4393.
Opening of the jaws with the handle.



Bullet points

- Hexagon headed spindle.
- Increased pull-out capacity due to the design of the jaws.
- Patented self-centring system.
- Plastic case.
- Improved extraction due to three points of support.

Ref.	Ømax	Ømin	TON	Jaw useful height	Jaw useful height	
7504KIT	155	40	4	143	2 jaws to convert external	11,0

PULLER SET C1100

C1100




Pullers ,splitters and rigid jaws set.

Bullet points

- Large number of compositions for extraction.
- More rigidity in extraction: force is applied directly to the body.



Ref.	Puller	Splitter	Jaws	
C1102S	1102S	1202A	100250	2,0
C1103S	1103S	1203A	100260	3,0
C1110S	1110S	1204B	101050	6,5
C1115S	1115S	1206B	101060	11,0



PULLER SET C1110SC WITH CASE C1110SC

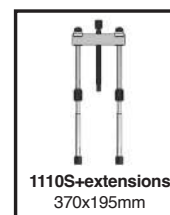
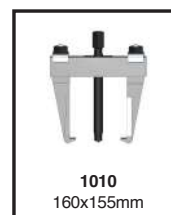


Pullers ,splitters and fixed jaws set .
Supplied in plastic case.



Bullet points

- Large number of compositions for extraction.
- More rigidity in extraction: force is applied directly to the body.



Ref.	Puller	Splitter	Push puller	⚖️
C1110SC	1010	1204B	1110S	10,0

PULLERS SET 1900K 1900K



External mechanical puller set.
Includes 5 types of jaws and 5 different adapters.



Bullet points

- Suitable for all different types of pulling: external, internal, V pulleys...



Ref.	Puller mountables	⚖️	Male adaptor
1904K	1904-1904E-1904V-1904R	5,6	1102306 - 1102308 1102310 - 1102312 110231-2
1907K	1907-1907E-1907V-1907R	12,5	1110312 - 1110314 1110316 - 1110318 1110320

THIN AND MULTIPLE JAWS PULLER SET 9075 90750



Complete thin jaw puller set.
5 types of jaws included.



Bullet points

- Very slim jaws for access to narrow places.
- 1805's jaws for general uses. One pair has a slotted to pull with a screw.



Ref.	Puller	Jaws serie 1700	Jaws serie 1800	⚖️
9075	1750 - 1805	175040 - 175050 - 175060	180531 - 180532	5,6
9075T	1750T - 1805T	175040 - 175050 - 175060	180531 - 180532	7,7



PULLER SET WITH THREADED ADAPTERS

9080




Push puller with splitter and fixed jaws.
6 adapters included from M6 to M14.



Bullet points

- Versatility.
- 9282 set includes thin splitter that ,thanks to its reduced. ..thickness ,can be used in small spaces



Ref.		Puller	Push puller	Splitter	Male adaptor
9082	3,0	1002	1102	1202A	1102306 - 1102308 1102310 - 1102312 110231-2 - 1102314
9282	3,1	1002	1102	2202A	1102306 - 1102308 1102310 - 1102312 110231-2 - 1102314

PULLER SET 9084

9084




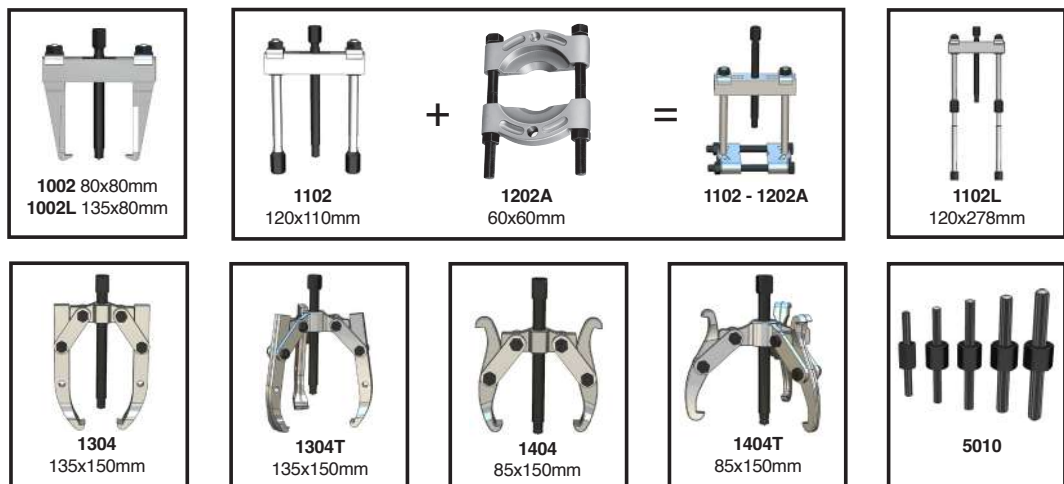
2 and 3 set of jaw pullers.
Very useful for mobile maintenance services (SAT).



Bullet points

- Large number of compositions for extraction.
- 2 and 3 legs possible pullings.
- Broken screw extractor included.

Ref.		Stud extractor set	Puller	Push puller	Splitter
9084	6,5	5010	1002 1304 1304T 1404 1404T	1102	1202A





PULLER SET 7TM 9087

9087



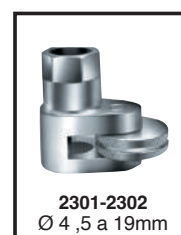
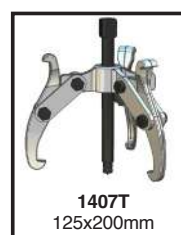
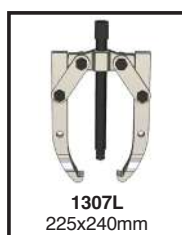
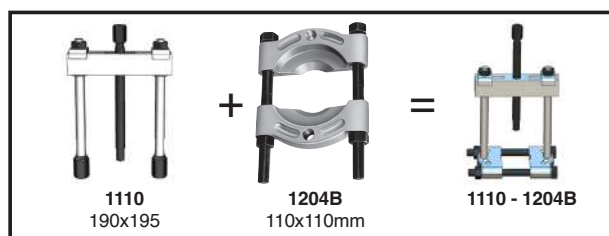
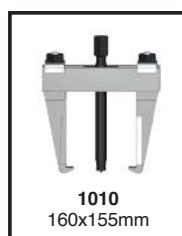
2 and 3 jaws puller set.
Very useful for mobile maintenance services (SAT).



Bullet points

- Large number of compositions for extraction.
- 2 and 3 legs possible pullings.
- Broken screw extractor included.

Ref.		Stud extractor	Puller	Push puller
9087	14,5	2301 2302	1010 1307 1307T 1407 1407T	1110



SMALL PULLERS SET

9300K



2 and 3 jaw micro puller set.
Very useful for mobile maintenance services (SAT).



Bullet points

- It includes 2 different sizes of pullers.
- 2 and 3 legs possible pullings.
- Slim jaws for access to narrow places.

Ref.		Puller
9300K	1,6	9300 9301 9300T 9301T




THREADED SPLIT PINS EXTRACTOR M4-M10

1950

It includes two shaft for the slide hammer and 4 adapters: M4, M5, M6 and M8. M10 thread removes without any adaptor.



Ref.	Threads		Adaptor
1950	M4 to M10	1,5	1914
			1915
			1916
			1918

THREADED SPLIT PINS EXTRACTOR M6-M20

1960

Threaded split pins extractor with 1Kg slide hammer. Includes 10 adapters of M5 to M20.

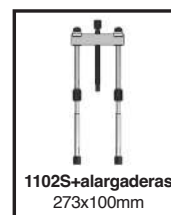
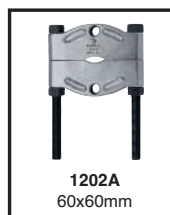



Ref.	Threads	Threads		Male adaptor
1960	M6 to M20	3/8" and 5/8"	3,0	1102306 - 1102308
				1102310 - 1110312
				1110314 - 1110316
				1110318 - 1110320
				196020 - 196021

C1102SC PUSH PULLER AND SPLITTER SET + ACCESSORIES

C1102SC

Simple assembly 1102S-1202A with 150mm extenders and joint nuts.



Ref.	Opening push puller	Heigth min	Heigth max		Push puller	Splitter	Extender	Point protector
C1102SC	110	115	273	2,0	1102S	1202A	110280	1002K9

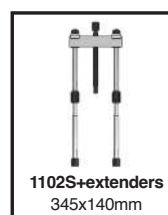
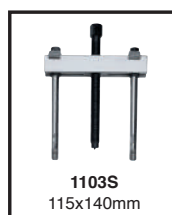


C1103SC PUSH PULLER AND SPLITTER SET + ACCESSORIES

C1103SC



Simple assembly 1103S-1203A with 150mm extenders and joint nuts.



Ref.	Opening push puller	Height min	Height max	⚖️	Push puller	Splitter	Extender	Point protector
C1103SC	140	115	273	3,0	1103S	1203A	111080	1002K9

MALE ADAPTOR



Ref.	Conection	Metrics	⚖️	Ref.	Conection	Metrics	⚖️
438006	M14	M6X1	0,1	1110314	5/8" 18h	M14	0,1
438008	M14	M8X1,25	0,1	1110316	5/8" 18h	M16	0,1
438010	M14	M10X1,5	0,1	1110318	5/8" 18h	M18	0,1
438012	M14	M12X1,75	0,1	1110320	5/8" 18h	M20	0,1
438014	M14	M14X2	0,1	11103122	5/8" 18h	M12x1,5	0,1
438020	M14	1/2" 20h	0,1	11103124	5/8" 18h	M12x1,25	0,1
438025	M14	M10X 1,5	0,1	11103142	5/8" 18h	M14x1,5	0,1
438026	M14	M16X2	0,1	11103162	5/8" 18h	M16x1,5	0,1
1102306	3/8" 24h	M6	0,1	11103202	5/8" 18h	M20x1,5	0,1
1102308	3/8" 24h	M8	0,1	4020	1/2" 20h	M8 x 1,25	0,1
1102310	3/8" 24h	M10	0,1	196020	1/2" 20h	3/8" 24h	0,1
1102312	3/8" 24h	M 12	0,1	196021	1/2" 20h	5/8" 18h	0,1
110231-2	3/8" 24h	1/2" 20h	0,1	4022	5/8" 18h	M8x1,25	0,1
1102314	3/8" 24h	M14	0,1	4023	5/8" 18h	1/2" 20h	0,1
1110312	5/8" 18h	M12	0,1				

FEMALE ADAPTOR



Ref.	Conection	Metrics	⚖️
11104121	5/8" 18h	M10x1,5	0,1
11104122	5/8" 18h	M10x1,5	0,1
11104124	5/8" 18h	M12x1,25	0,1
11104142	5/8" 18h	M14x1,25	0,1
11104162	5/8" 18h	M16x1,5	0,1
2525	1/2" 20h	M10 x 1,5	0,1
2526	1/2" 20h	M16x2	0,1



EXHIBITORS SERIE 1000N

1000N0




2 fixed jaws puller exhibitor.

Bullet points

- More rigidity in extraction: force is applied directly to the body.
- Faster assembly.
- Short and long jaws available.
- Square head spindle for a better grip with a wrench.



Ref.		Puller	Forniture
1000A	17,0	1002 - 1003L - 1010 - 1010L - 1015	96012
1000B	23,5	1002 - 1003L - 1010 - 1015 - 1020	96012
1000N	17,3	1001 - 1002 - 1003L - 1010 - 1010L - 1015	96012

EXHIBITOR SERIE 1000HX

1000AHX




2 fixed jaws puller exhibitor.

Bullet points

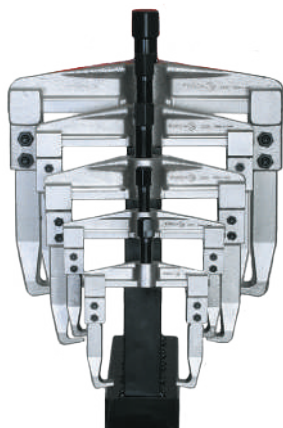
- More rigidity in extraction: force is applied directly to the body.
- Faster assembly.
- Short and long jaws available.
- Hexagonal head spindle.



Ref.		Puller	Forniture
1000AHX	17,0	1002 - 1003L - 1010HX 1010LHX - 1015HX	96012

EXHIBITOR SERIE 2400A

2400A




2 universal jaws puller exhibitor.

Bullet points

- Most popular on the market.
- Short and long jaws possible.



Ref.		Puller	Forniture
2400A	20,2	2410 - 2415 - 2420 2425 - 2430	96012



EXHIBITOR SERIE 9000E

9000A0



2 fixed jaws puller exhibitor

Bullet points

- More rigidity in extraction: force is applied directly to the body
- Faster assembly
- Short and long jaws available
- Lighter than serie 1000 and 3 jaws possible
- Brass plated finish



Ref.		Puller	Forniture
9000A	11,5	9002 - 9002L - 9002LA - 9010 - 9010LA	96012
9000B	14,0	9002 - 9002LA - 9010 - 9010L - 9010LA	96012

EXHIBITOR SERIE 1300A

1300AT



2 and 3 self centering jaws puller exhibitor.

Bullet points

- Different jaw positions.
- Square head spindle for a better grip with a wrench.
- Self-centring system: automatic centring of the jaws for better grip.
- Improved extraction with three points of support.



Ref.		Puller	Forniture
1300A	12,8	1301ALT - 1304ALT - 1307ALT	96312

EXHIBITOR SERIE 1400A

1400A



2 and 3 reversible jaws puller exhibitor.

Bullet points

- Square head spindle for a better grip with a wrench.
- Reversible jaws with different cross-section.
- Different jaw positions.
- Two holes in the jaws for two different positions.
- Improved extraction with three points of support.



Ref.		Puller	Forniture
1400A	13,0	1401LT - 1404LT - 1407LT	96312

EXHIBITOR SERIE 7300A


7300A

2 and 3 self centering jaws puller exhibitor.



Bullet points

- Different jaw positions.
- Square head spindle for a better grip with a wrench.
- Self-centring system: automatic centring of the jaws for better grip.
- Jaws with slotted for pulling screws.
- Improved extraction with three points of support.

Ref.		Puller	Forniture
7300A	13,0	7301ALT 7304ALT 7307ALT	96312

EXHIBITOR SERIE 7500E


7500B0

2-3 self centering pullers exhibitor.



Bullet points

- Hexagonal headed spindle.
- Greater extraction capacity due to the design of the jaws.
- Patented self-centering system.

Ref.		Puller	Forniture
7500A	20,0	7502 - 7504 - 7507 - 7502T - 7504T	96750
7500B	21,0	7502 - 7504 - 7507 - 7501T - 7502T - 7504T	96750

More information about exhibitors:

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FORZA











HYDRAULIC PULLERS:


Wide range of hydraulic extractors, specially designed to extract bearings, pulleys, gears, shafts and many other mechanical parts.

Aimed at sectors such as naval, public works, automotive, aeronautical, railway and petrochemical industry among others.



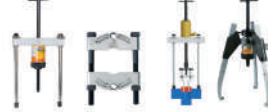





HYDRAULIC PULLERS






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WHEN TO CHOOSE A HYDRAULIC PULLER?



In maintenance situations, there are parts such as bearings, pulleys, gears, shafts or bearings that are needed to be removed. Difficult access, tightening conditions and other factors make that these parts cannot be safely removed without the use of a professional puller.

These types of parts are most often found mounted on a machine, installation or vehicle. Forza offers fast, efficient, safe and gentle disassembly.

Forza pullers means high productivity, costs savings and long-term machine life. It is cheaper to buy a Forza puller than to pay for downtime costs and investment in new machinery.

When to choose a hydraulic puller?

Manually or mechanically a maximum nominal force of 4-5Tons can be reached, which it is not enough in many cases. The working position as well as the “physical limitations” must be taken into account. For this reason, we always recommend a hydraulic drive from 8 Tons upwards.

Hydraulic pullers are usually known by their capacity in tons, this capacity is generally proportional to the dimensions of the workpiece to be extracted.



HYDRAULIC PARTS

At Forza we are an Enerpac partner so we supply our extractors with their hydraulic equipment. It is also possible to buy only the mechanical part since they are compatible with any other hydraulic manufacturer.

The hydraulic part of the extractor consists of:

Hydraulic pump



The pump is the part that brings pressure to the cylinder. Forza supplies it together with the gauge and hose.

Hydraulic cylinder



The hydraulic cylinder which is the force creating part of the puller. It is a single acting cylinder with spring loaded return.

Hose



It leads the oil from the pump to the cylinder. Length: 1.8m

Gauge




It is very important to pay special attention to the pressure gauge and for your safety NEVER exceed 650Bar displayed in the gauge.

SERIE 00900 HYDRAULIC PARTS


00900

The 00904 and 00909 units do not include a pressure gauge and have solid cylinders.



Ref.	TON		Cylinder	Pump
00904	4	5,2	09041	009542
00909	10	14,0	09091	009542




Ref.	TON		Cylinder	Pump
00910	10	11,2	09101	09102
00918	20	16,0	09181	09102
00930	30	19,0	09301	09102
00952	50	43,0	09521	09522
00995	100	78,0	09951	09522

10 AND 100 TONES HYDRAULIC CYLINDERS



Single acting cylinder.
Industry standard in general.
Maximum pressure 700Bar.




Ref.	Stroke	Bolster thread (W)	Retracted height (A)	External diameter (D)	Internal thread	TON	Distance holes (U)	Thread hole (V)		Saddle
09101	42	2 3/4"-16UN	120	69	3/4" UNF 16h	10	50,8	5/16"-18UN	2,7	-
09181	49	3 7/8"-12UN	162	98	1 9/16"-16UN	20	82,6	3/8"-16UN	7,5	111857
09301	64	4 1/2"-12UN	178	114	1 13/16"-16UN	30	92,2	3/8"-16UN	10,5	113057
09521	76	6 1/4"-12UN	247	159	2 3/4"-16UN	50	130,3	1/2"-13UN	31,0	115257
09951	76	8 3/8"-12UN	254	212	4"-16UN	100	177,8	5/8"-11UN	65,0	119557

HYDRAULIC PUMP FROM 10 TO 100 TONS

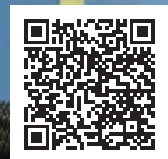


Hand pumps with light and compact design.
Less pumping effort to reduce operator fatigue.
Internal safety valves to avoid overloads.
Two-stage operation on all models reduces pumping strokes by up to 78% compared to single-stage pumps.
Pressure gauge and hose included.
Maximum operating pressure 700Bar.



Ref.	Conection	Maximum Handle Effort (kg)	Total length	TON	
09102	3/8"-18NPTF	39	480	10,20,30	10,9
09522	3/8"-18NPTF	35	511	50,100	15,2
091202	3/8"-18NPTF	42	533	10,20,30	11,0

*The pump 09102 is one-stage. (Two-stage pump are available).



SEE MANUAL



SERIE 1000H 2 JAWS PULLERS' MECHANICAL PART 1000H



Mechanical part of serie 3000H.
2 external fixed jaws puller.



Bullet points

- Hydraulic mechanism: faster pulling with less effort.
- Point protector included for a better use.

Ref.					TON		Spare part	Accessorie
							Complete jaw	Point protector
1018H	260	280	105	370	20	20,0	102050	111837
1018LH	390	280	115	370	20	25,8	102060	111837

SERIE 3000H COMPLETE HYDRAULIC PULLER 3000H



2 external fixed hydraulic jaw puller.



Bullet points

- Hydraulic system: faster pulling with less effort.
- Point protector included for better use.

Ref.	TON		Hydraulic part	Mechanical part
3018H	20	36,0	00918	1018H
3018LH	20	41,8	00918	1018LH



SERIE 1100H MECHANICAL PART

1100H








Mechanical part of the serie 3100H.
These pullers combine with the 1200 splitters and are the safest way to remove pulleys without damaging them.



Bullet points

- These pullers can be used with plate jaws.
- It can be also used as push pullers with serie 1500 and 4700 internal pullers.
- Point protector included for a better use.

Ref.					TON		Internal puller	Splitter	Spare part	Accessories		Spare part
									Spindle	Plate jaw	Point protector	Complete extension
1110H	300	260	115	280	10	7,3	1506H10 1507H10 4704H10	1204B 1206B	111083	112005 112006	111037	111080H
1118H	265	345	140	370	20	17,5	1506H20 1507H20 4704H20	1206B 1208B	111883	112005 112006	111837	111880H
1130H	284	440	180	480	30	35,5	1509H30	1208C 1210C	113083	113505	113037	113080H
1152H	447	580	220	615	50	70,5	1509H50	1210D 1212D 1213D	115283	115005	113037	115280H
1195H	600	700	340	760	100	168,3	-	1213E	119583	-	119537	119580H

SERIE 3100H COMPLETE HYDRAULIC PULLER

3100H




Push puller with hydraulic part.
These pullers combine with the 1200 splitters and are the safest way to remove pulleys without damaging them.



Bullet points

- These pullers can be used with plate jaws.
- It can be also used as push pullers with serie 1500 and 4700 internal pullers.
- Point protector included for a better use.

Ref.	TON		Hydraulic part	Mechanical part	Internal puller	Splitter
3110H	10	32,0	00910	1110H	1506H10 1507H10 4704H10	1204B 1206B
3118H	20	51,0	00918	1118H	1506H20 1507H20 4704H20	1206B 1208B
3130H	30	71,0	00930	1130H	1509H30	1208C 1210C
3152H	50	143,0	00952	1152H	1509H50	1210D 1212D 1213D
3195H	100	21,0	00995	1195H	-	1213E



SERIE 1000HF 2 JAWS PULLERS' MECHANICAL PART 1000HF



Mechanical part of serie 3000H.
 2 external fixed jaws puller
 Point extension included:
 -130789 extens 55mm
 -131089 extens 85mm



Bullet points

- Hydraulic system: faster pulling with less effort.

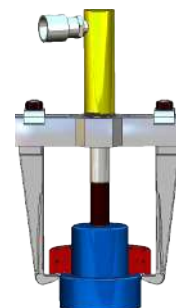
Ref.					TON		Spare part	
							Point extension	Complete jaw
1010AHF	160	200	60	260	5	3,5	130789	101050
1010HF	160	150	60	210	5	3,1	130789	101050
1010LAHF	220	200	60	260	5	4,0	130789	101060
1010LHF	220	150	60	210	5	3,6	130789	101060
1020HF	260	250	60	345	10	12,0	131089	102050
1020LHF	300	245	60	345	10	14,0	131089	102060

SERIE 3000HF COMPLETE HYDRAULIC PULLER 3000HF

2 external fixed hydraulic jaw puller.
 Point extension included.

Bullet points

- Hydraulic system: faster pulling with less effort.



Ref.	TON		Hydraulic part	Mechanical part
3010AHF	5	21,0	00904	1010AHF
3010HF	5	20,0	00904	1010HF
3010LAHF	5	21,0	00904	1010AHF
3010LHF	5	20,0	00904	1010LHF
3020HF	10	32,0	00909	1020HF
3020LHF	10	35,0	00909	1020LHF



SERIE 1100HF PUSH PULLERS' MECHANICAL PART

1100HF

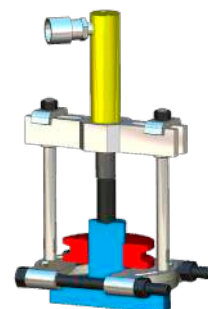






Mechanical part of serie 3100HF.
 Combines with 1200 serie of splitters.
 Combines with 1500 and 4700 serie of internal pullers.
 Includes point extension.
 -130789 extens 55mm.
 -131089 extens 85mm.



Bullet points

- Hydraulic system: faster pulling with less effort.



Ref.				TON		Accessorie		
						Splitter	Point extension	Extender
1108AHF	190	250	260	5	3,2	1206B	130789	111080
1108HF	190	200	210	5	3,0	1204B	130789	111080
1120HF	255	325	210	10	9,4	1206B 1208B	131089	112080

SERIE 3100HF COMPLETE HYDRAULIC PULLER

3100HF




External hydraulic push puller.
 Combines with the splitters serie 1200.
 Combines with series of interiors 1500 and 4700.
 Includes point extension.



Bullet points

- Hydraulic system: faster pulling with less effort.

Ref.	TON		Hydraulic part	Mechanical part
3108AHF	5	21,0	00904	1108AHF
3108HF	5	21,0	00904	1108HF
3120HF	10	30,0	00909	1120HF



SERIE 1300LTH 2/3JAWS PULLERS' MECHANICAL PART 1300LTH






Mechanical part of serie 3300LTH.
 External 2/3 jaws hydraulic puller.
 Long jaws (3 holes).
 Point extension included.
 130789 extend 55mm.
 131089 extend 85mm.



Bullet points

- Hydraulic system: faster pulling with less effort.
- 3 jaw positions.
- Possibility of use with 2 or 3 jaws.
- The pull out improves thanks to the three jaws.

Ref.			TON		Spare part	
					Point extension	Complete jaw
1307LTH	225	240	5	3,5	130789	130760
1310LTH	400	350	10	9,5	131089	131060
1310XTH	480	405	10	11,9	131089	131066

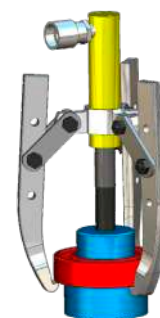
SERIE 3300LTH COMPLETE HYDRAULIC PULLER 3300LTH




External 2/3 jaws hydraulic puller.
 Long jaws (3 holes).
 Point extension included.



Bullet points

- Hydraulic mechanism: faster pulling with less effort.
- 3 jaw positions.
- Possibility of 2 or 3 legs pulling.
- The pull out improves thanks to the three jaws.

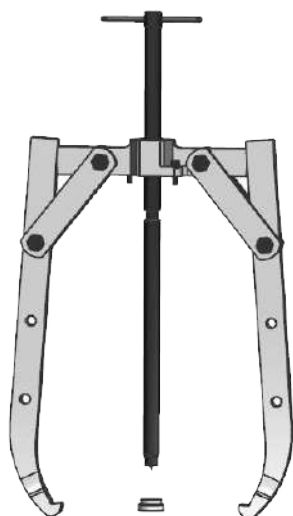


Ref.			TON		Hydraulic part	Mechanical part
3310LTH	400	350	10	33,0	00909	1310LTH
3310XTH	480	405	10	36,0	00909	1310XTH



SERIE 1300H MECHANICAL PART

1300H

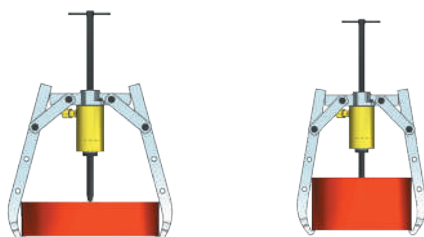


Mechanical part of serie 3300H.
External 2 jaws puller.
Long jaws (3 holes).



Bullet points

- 3 jaw positions.
- Point protector included for a better use.



Ref.					TON		Spare part		
							Spindle	Jaw	Point protector
1318H	320	480	80	280	20	18,0	111883	131706	111837
1330H	410	650	100	325	30	30,0	113083	133006	113037
1352H	710	980	150	414	50	66,0	115283	135206	113037

SERIE 3300H COMPLETE HYDRAULIC PULLER

3300H



Complete puller: mechanical part + hydraulic part.
External 2 jaws hydraulic puller.
Long jaws (3 holes).



Bullet points

- Hydraulic system: faster pulling with less effort.
- 3 jaw positions.
- Point protector included for a better use.

Ref.	TON		Hydraulic part	Mechanical part
3318H	20	47,0	00918	1318H
3330H	30	65,0	00930	1130H
3352H	50	137,0	00952	1352H



SERIE 1300HX MECHANICAL PART 1300HX



Mechanical par of serie 3300HX.
External 2 jaws puller.
Long jaws (4 holes).



Bullet points

- 4 jaw positions.
- Point protector included for a better use.

Ref.					TON		Spare part		
							Spindle	Jaw	Point protector
1318HX	435	540	80	280	20	20,0	111883	131716	111837
1330HX	535	720	100	325	30	34,0	113083	133016	113037
1352HX	830	1080	150	414	50	72,0	115283	135216	113037

SERIE 3300XH COMPLETE HYDRAULIC PULLER 3300HX



Complete puller: mechanical part + hydraulic part.
External 2 jaws hydraulic puller.
Long jaws (4 holes).



Bullet points

- Hydraulic system: faster pulling with less effort.
- Point protector included for better use.
- 4 jaw positions.

Ref.	TON		Hydraulic part	Mechanical part
3318HX	20	49,0	00918	1318HX
3330HX	30	69,0	00930	1330HX
3352HX	50	144,0	00952	1352HX



SERIE 1300TH MECHANICAL PART

1300TH








Mechanical part of serie 3300TH.
External 3 jaws puller.
Long jaws (3 holes).



Bullet points

- 3 jaw positions.
- Point protector included for a better use.
- The pull out improves thanks to the three jaws.

Ref.					TON	Position		Spare part		
								Jaw	Spindle	Point protector
1310TH	310	360	60	176	10	2/3 jaws	9,0	131006	111083	111037
1318TH	320	480	80	276	20	3 jaws	23,0	131706	111883	111837
1330TH	410	650	100	325	30	3 jaws	40,0	133006	113083	113037
1352TH	710	980	150	414	50	3 jaws	87,0	135206	115283	113037

SERIE 3300TH COMPLETE HYDRAULIC PULLER

3300TH




Complete puller: mechanical part + hydraulic part.
External 3 jaws hydraulic puller.
Long jaws (3 holes).



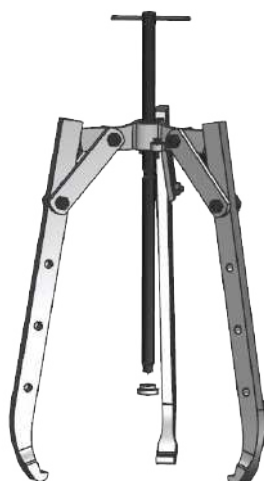
Bullet points

- Hydraulic system: faster pulling with less effort.
- 3 leg positions.
- Point protector included for a better use.
- The pull out improves thanks to the three jaws.

Ref.	TON		Hydraulic part	Mechanical part
3310TH	10	34,0	00910	1310TH
3318TH	20	56,0	00918	1318TH
3330TH	30	73,0	00930	1330TH
3352TH	50	160,0	00952	1352TH



SERIE 1300THX MECHANICAL PART 1300THX



Mechanical part of serie 3300THX.
External 3 jaws puller.
Extra long jaws (4 holes).



Bullet points

- 4 jaw positions
- Point protector included for a better use.
- The pull out improves thanks to the three jaws.

Ref.					TON	Position		Spare part	
								Jaw	Spindle
1310THX	395	410	60	176	10	2/3 jaws	10,5	131016	111083
1318THX	435	540	80	276	20	3 jaws	26,0	131716	111883
1330THX	535	720	100	325	30	3 jaws	46,0	133016	113083
1352THX	860	1080	150	414	50	3 jaws	96,0	135216	115283

SERIE 3300THX COMPLETE HYDRAULIC PULLER 3300THX



Complete puller: mechanical part + hydraulic part.
External 3 jaws hydraulic puller.
Extre long jaws (4 holes).



Bullet points

- Hydraulic system: faster pulling with less effort.
- 4 jaw positions.
- Point protector included for better use.
- The pull out improves thanks to the three jaws.

Ref.	TON		Hydraulic part	Mechanical part
3310THX	10	34,0	00909	1310THX
3318THX	20	59,0	00918	1318THX
3330THX	30	91,0	00930	1330THX
3352THX	50	171,0	00952	1352THX



SERIE 1300THCO MECHANICAL PART

1300THCO



Mechanical part of serie 3300THCO
 External 2-3 jaws puller.
 Long jaws (3 holes).
 2 jaws body included.



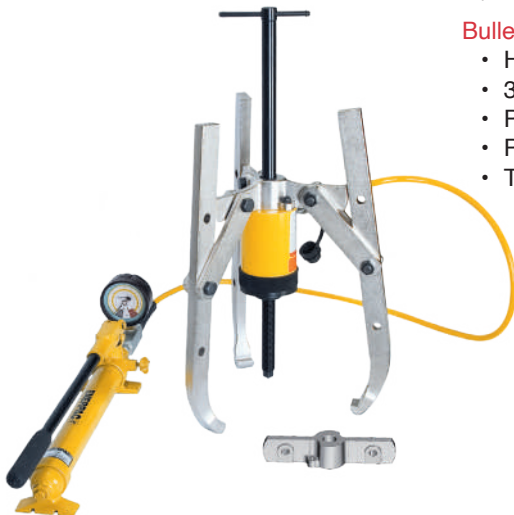
Bullet points

- 3 jaw positions.
- Point protector included for a better use.
- The pull out improves thanks to the three jaws.

Ref.					Includes	TON		Spare part		
								Spindle	Jaw	Point protector
1318THCO	320	480	80	276	Body 131881 for 2 jaws	20	25,3	111883	131706	111837
1330THCO	411	650	100	325	Body 133081 for 2 jaws	30	44,5	113083	133006	113037
1352THCO	710	980	150	414	Body 135281 for 2 jaws	50	95,0	115283	135206	113037

SERIE 3300THCO COMPLETE HYDRAULIC PULLER

3300THCO



Complete puller: mechanical part + hydraulic part.
 External 3 jaws hydraulic puller.
 Long jaws (3 holes).
 2 jaws body included.



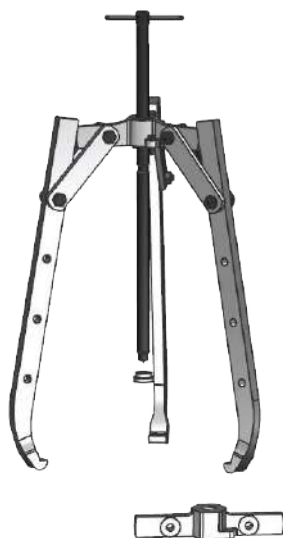
Bullet points

- Hydraulic system: faster pulling with less effort.
- 3 jaw positions.
- Point protector included for better use.
- Possibility of 2 or 3 legs pulling.
- The pull out improves thanks to the three jaws

Ref.	TON		Hydraulic part	Mechanical part
3352THCO	50	160,0	00952	1352THCO
3318THCO	20	59,0	00918	1318THCO
3330THCO	30	78,0	00930	1330THCO



SERIE 1300THXO MECHANICAL PART 1300THXO








Mechanical part of serie 3300THXO.
 External 3 and 2 jaws puller.
 Extra long jaws (4 holes).
 2 jaws body included.



Bullet points

- 4 jaw positions.
- Point protector included for a better use.
- 2 or 3 legs pulling.
- The pull out improves thanks to the three jaws.

Ref.					Includes	TON		Spare part		
								Spindle	Jaw	Point protector
1318THXO	435	540	80	276	Cuerpo 131881 para 2 patas	20	28,5	111883	131716	111837
1330THXO	536	720	100	322	Cuerpo 133081 para 2 patas	30	50,5	113083	133016	113037
1352THXO	860	1080	150	414	Cuerpo 135281 para 2 patas	50	104,0	115283	135216	113037

SERIE 3300THXO COMPLETE HYDRAULIC PULLER 3300THXO




Complete puller: mechanical part + hydraulic part.
 External 2 and 3 jaws puller.
 Extra long jaws (4 holes).



Bullet points

- Hydraulic system: faster pulling with less effort.
- 4 jaw positions.
- Point protector included for a better use.
- Possibility of 2 or 3 legs pulling.
- The pull out improves thanks to the three jaws.

Ref.	TON		Hydraulic part	Mechanical part
3318THXO	20	62,0	00918	1318THXO
3330THXO	30	85,0	00930	1330THXO
3352THXO	50	178,0	00952	1352THXO



SERIE 1300THA MECHANICAL PART

1300THA








Mechanical part of serie 3300THA.
External 3 selfcentering jaws puller.
Long jaws (3 holes).



Bullet points

- Automatic selfcentering of the jaws, for a better grip.
- 2 or 3 legs pulling.
- Point protector included for a better use.
- The pull out improves thanks to the three jaws.



Ref.					TON	Position		Spare part		
								Jaw	Spindle	Point protector
1310THA	315	350	60	177	10	2/3 jaws	14,5	131006	111083	111037
1318THA	320	480	80	276	20	3 jaws	33,0	131706	111883	111837
1330THA	410	650	100	325	30	3 jaws	56,5	133006	113083	113037
1352THA	710	980	150	414	50	3 jaws	122,0	135206	115283	113037
1395THA	1000	1600	300	597	100	3 jaws	322,0	139506	119583	119537

SERIE 3300THA COMPLETE HYDRAULIC PULLER

3300THA




Complete puller: mechanical part + hydraulic part.
External 3 jaws selfcentering hydraulic puller.
Long jaws (3 holes).



Bullet points

- Hydraulic system: faster pulling with less effort.
- 3 jaw positions.
- Point protector included for better use.
- Better grip thanks to the automatic centering of the legs.
- The pull out improves thanks to the three jaws.

Ref.		Hydraulic part	Mechanical part
3310THA	35,0	00910	1310THA
3318THA	66,0	00918	1318THA
3330THA	81,0	00930	1330THA
3352THA	177,0	00952	1352THA
3395THA	465,0	00995	1395THA



SERIE 1300THXA MECHANICAL PART 1300THXA



Mechanical part of serie 3300THXA.
External 3 jaws puller.
Extra long jaws (4 holes).



Bullet points

- Automatic selfcentering of the jaws, for a better grip.
- 4 jaw positions.
- Point protector included for a better use.
- The pull out improves thanks to the three jaws.

Ref.					TON	Position		Spare part		
								Jaw	Spindle	Point protector
1310THXA	395	410	60	176	10	2/3 jaws	16,0	131016	111083	111037
1318THXA	435	540	80	276	20	3 jaws	36,0	131716	111883	111837
1330THXA	535	720	100	325	30	3 jaws	62,5	133016	113083	113037
1352THXA	860	1080	150	414	50	3 jaws	131,0	135216	115283	113037

SERIE 3300THXA COMPLETE HYDRAULIC PULLER 3300THXA



Complete puller: mechanical part + hydraulic part.
External 3 jaws selfcentering puller.
Extra long jaws (4 holes).



Bullet points

- Hydraulic system: faster pulling with less effort.
- Better grip thanks to the automatic centering of the jaws.
- 4 jaw positions.
- Point protector included for better use.

Ref.	TON		Hydraulic part	Mechanical part
3310THXA	10	36,0	00910	1310THXA
3318THXA	20	69,0	00918	1318THXA
3330THXA	30	87,0	00930	1330THXA
3352THXA	50	187,0	00952	1352THXA



SERIE 1300THACO MECHANICAL PART

1300THACO








Mechanical part of 3300THACO hydraulic set.
External self-centering puller with 2 and 3 jaws.
Long jaws (3 holes).
2 jaws body included.



Bullet points

- Automatic centering of the extraction jaws, for a better grip
- 3 jaw positions.
- Point protector included for better use.
- Possibility of extraction with 2 or 3 jaws.
- The pull out improves thanks to the three jaws.

Ref.					TON		Spare part		
							Spindle	Jaw	Point protector
1318THACO	320	480	80	276	20	24,7	111883	131706	111837
1330THACO	410	650	100	325	30	47,1	113083	133006	113037
1352THACO	710	980	150	414	50	103,2	115283	135206	113037
1395THACO	1000	1600	300	597	100	277,3	119583	139506	119537

SERIE 3300THACO COMPLETE HYDRAULIC PULLER

3300THACO




Complete puller with hydraulic part included.
Self-centering with 2 and 3 jaws.
Long jaws (3 holes).
2 jaws body included.



Bullet points

- Hydraulic system: faster pulling with less effort.
- Better grip thanks to the automatic centering of the jaws.
- 3 jaw positions.
- Point protector included for better use.
- Possibility of extraction with 2 or 3 jaws

Ref.	TON		Hydraulic part	Mechanical part
3318THACO	20	69,0	00918	1318THACO
3330THACO	30	86,0	00930	1330THACO
3352THACO	50	184,0	00952	1352THACO
3395THACO	100	357,0	00995	1395THACO



SERIE 1300THAXO MECHANICAL PART 1300THAXO



Mechanical part of 3300THAXO hydraulic set.
 External self-centering puller with 2 and 3 jaws.
 Extra long jaws (4 holes).
 2 jaws body included.



Bullet points

- Automatic centering of the extraction jaws, for a better grip.
- 4 jaw positions.
- Point protector included for better use.
- Possibility of extraction with 2 or 3 jaws.
- The pull out improves thanks to the three jaws.

Ref.					TON		Spare parts		
							Spindle	Jaw	Point protector
1318THAXO	435	540	80	276	20	27,9	111883	131716	111837
1330THAXO	535	720	100	325	30	53,4	113083	133016	113037
1352THAXO	860	1080	150	414	50	113,4	115283	135216	113037

SERIE 3300THAXO COMPLETE HYDRAULIC PULLER 3300THAXO



Complete puller with hydraulic part included.
 3 jaws hydraulic external puller.
 Extra long jaws (4 holes).
 2 jaws body included.



Bullet points

- Hydraulic system: faster pulling with less effort.
- Better grip thanks to the automatic centering of the jaws.
- 4 jaw positions.
- Point protector included for better use.
- Possibility of extraction with 2 or 3 jaws.

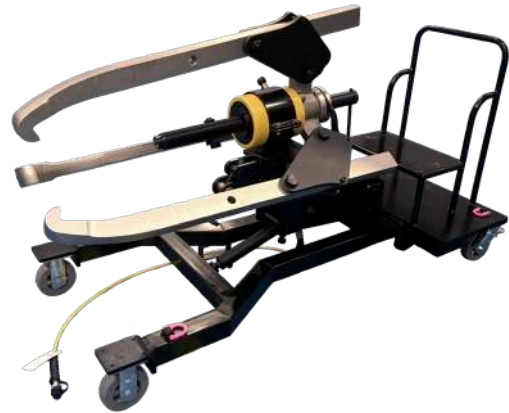
Ref.	TON		Hydraulic part	Mechanical part
3318THAXO	20	72,0	00918	1318THAXO
3330THAXO	30	92,0	00930	1330THAXO
3352THAXO	50	194,0	00952	1352THAXO




COMPLETE 100 TON PULLER TROLLEY

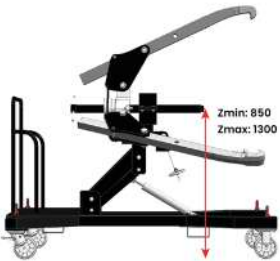
9731000

It consists of the 970100 trolley plus the 3395THA hydraulic puller.
 Pump for puller ref. 1395THA (09522): two-speed pump. Maximum pressure 700 bar.
 Pump to raise the cart (09102) : single speed manual pump. Maximum pressure 700 bar.
 Spindle with manual handwheel to change the angle of the extractor.
 The puller can be removed from the trolley to use it separately.
 Equipped with profiles to use load bulls and with slings to load with a crane.




Trolley with pumps

Ref.	Carriage length (mm)	Carriage width (mm)	Puller minimum height (mm)	Puller maximum height (mm)	Pump		Mechanical part	Puller
973100	2070	936	895	1250	Included	590,0	1395THA	3395THA



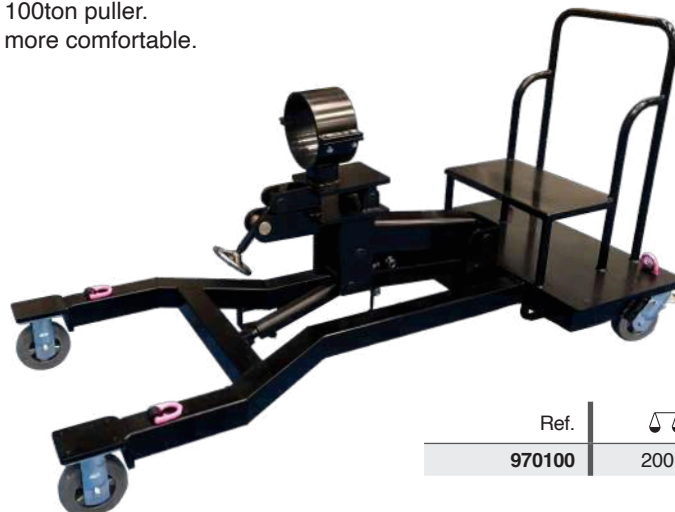
Trolley without pumps


Ref.	Carriage length (mm)	Carriage width (mm)	Puller minimum height (mm)	Puller maximum height (mm)	Pump		Mechanical part	Puller
973099	2070	936	895.	1250	Not included	625,0	1395THA	3395THA

100 TON PULLERS TROLLEY

970100

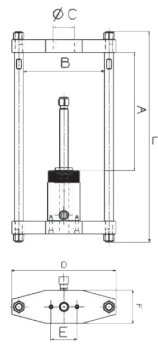
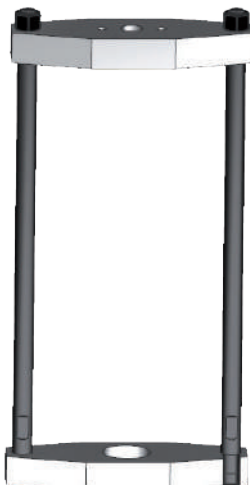
Made for use with FORZA 100ton puller.
 Make the use of the puller more comfortable.



Ref.	
970100	200,0



HYDRAULIC BOLT PULLER 4200H



Specially designed to extract large bolts. It uses the same hydraulic part as the pullers. Available in 30 and 60 tons.

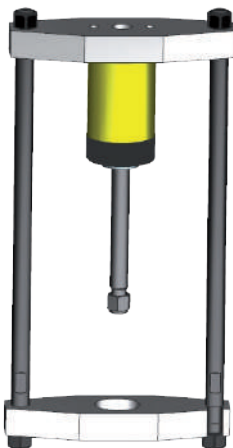


Bullet points

- Hydraulic system: faster pulling with less effort.

Ref.	A (Useful jaw height)	B (Maximum opening)	C (Body width)	XC	E	F	L	
4230H	420	288	370	75	92,1	118	750	35,7
4260H	475	398	520	98	130,1	170	900	96,5

COMPLETE HYDRAULIC BOLT PULLER 4230HC0



Specially designed to remove large bolts. It includes the same hydraulic part as for the others hydraulic pullers Available in 30 and 60 tons.



Bullet points

- Hydraulic system: faster pulling with less effort.

Ref.		Hydraulic part	Mechanical part	Point protector
4230HC	57,0	00930	4230H	113037
4260HC	128,0	00952	4260H	113037

EXPERTS IN EXTRACTORS!
consult solutions for customized extractions

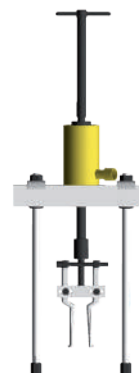


SERIE 1500H INTERNAL PULLER

1500H








Internal puller.
With regulation spindle to place the jaws.
This puller combines with the hydraulic push pullers of the serie 1100H.



Bullet points

- With adjustment spindle to position the jaws.

Ref.					Thread		Mechanical part	Spare part	
								Spindle	Jaw
1506H10	115	145	40	133	3/4" UNF 16H	2,5	1110H	150622	150605
1506H20	115	145	40	133	1" UNC 8H	2,4	1118H	150622	150605
1507H10	140	160	32	133	3/4" UNF 16H	2,7	1110H	150622	150705
1507H20	140	160	32	133	1" UNC 8H	2,6	1118H	150622	150705
1509H30	150	240	60	202	1 1/4" UNC 7H	6,3	1130H	150922	150905
1509H50	150	240	60	202	1 5/8" UNC 5.5H	6,6	1152H	150922	150905

SERIE 4704H 3 EXTERNAL AND INTERNAL JAWS PULLER

4704H




External and internal 3 jaw puller.
With 2 sets of 3 jaws.
470405 is the jaw for internal and external use with a diameter bigger than 97mm.
470415 is the leg for indoor use with a maximum diameter of 97mm.
Combines with push pullers of serie 1100H.



Bullet points

- Perfect for cylinder liners.
- Self-centering system: automatic centering of the jaws for a better grip.



Ref.			Thread	A (Useful jaw height) with 470205	A (Useful jaw height) with 470215		Spare part		
							Mechanical part	Internal jaw	External jaw
4704H10	45-97	90-152	3/4"16h	135	75	3,1	1110H	470415	470405
4704H20	45-97	90-152	1"8h	135	75	3,1	1118H	470415	470405



SERIE 4708H INTERNAL JAWS PULLER 4708H



3 jaws internal puller.
Combines with push pullers of serie 1100H.



Bullet points

- Perfect for cylinder liners.
- Self-centering system: automatic centering of the jaws for a better grip.



Ref.	\varnothing int max	Useful jaw height	\varnothing int min	Thread	Body diameter		Mechanical part	Spare part	
								Jaw	Spindle
4708H30	300	315	130	150	1 1/4"7h	10,8	1130H	150905	470885
4708H50	300	315	130	150	1 5/8"5,5h	11,2	1152H	150905	470886
4708H95	300	315	130	150	2 1/2" 8h	12,0	1195H	150905	470896
4709H95	320	315	130	168	2 1/2"8h	14,2	1195H	150905	470989

ADJUSTING SPLINDES SERIES 4704H-4708H-4709H



Ref.	R (Conection)	L (Length)	C (Distance between faces)	
470485	3/4" 16h	122	32	0,6
470486	1" 8h	122	34	0,6
470885	1 1/4" UNC 7h	215	50	1,9
470886	1 5/8" UNC 5,5h	220	60	2,2
470896	2 1/2" 8h	215	50	3,4
470989	2 1/2" 8h	220	60	0,1

SPINDLES FOR HYDRAULIC PULLERS WITH HANDLE

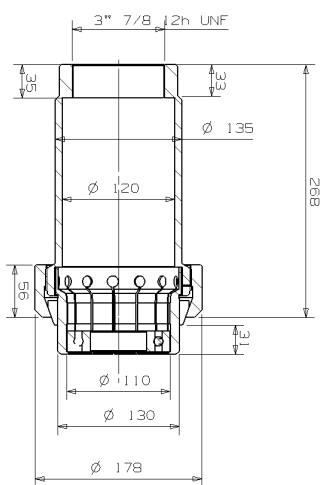


Ref.	R (Conection)	L (Length)	Head	Point	
101883	1" UNC 8h	540	Handle	Fixed	1,7
111883	1" UNC 8h	670	Handle	Fixed	2,4
113083	1 1/4" UNF 7h	790	Handle	Fixed	4,6
115283	1 5/8" USN 5,5h	975	Handle	Fixed	9,0
111083	3/4" UNF 16h	400	Handle	Fixed	0,8



HYDRAULIC BALL BEARING PULLER MECHANICAL PART

1700-6H0




This extractor allows to mount and dismount all types of bearings. For this extractor, collets that are made to measure for the bearing to be extracted are adapted.

The price is for each collet, each collet extracts a different bearing. Hydraulic part not included.

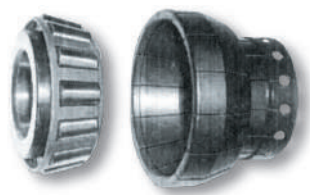




Bullet points

- Allows to assemble and disassemble ball bearings but also conical and cylindrical roller bearings that are highly complex to extract.
- Extraction collets are available for the following bearings. If the collets is not in the catalog, we manufactured under request.
- An opener is included to dismount the collets from the bearing after the extraction.

Ref.	TON		Hydraulic part	Point protector	Pinzas
1700-6H		12,0	00918	111837	176018 - 176019
					176020 - 176021
					176022 - 176218
					176219 - 176220
					176221 - 176222
1700-6H5		15,0	00904	111837	1732216 - 1732217
					1732218 - 1732219
					1732220 - 1732222
					1732314 - 1732315
1700-6H10		16,0	00918	111837	1732316 - 1732317
					1732920 - 1732922
					1733021 - 1733217

COLLETS FOR BALL BEARINGS



Ref.	Bearing to remove		Ref.	Bearing to remove	
176018	6018	0,1	1732219	32219	5,0
176019	6019	0,1	1732220	32220	5,0
176020	6020	0,1	1732222	32222	5,0
176021	6021	0,1	1732314	32314	5,0
176022	6022	0,1	1732315	32315	5,0
176218	6218	0,1	1732316	32316	5,0
176219	6219	0,1	1732317	32317	3,1
176220	6220	0,1	1732920	32920	3,8
176221	6221	0,1	1732922	32922	5,5
176222	6222	0,1	1733021	33021	5,0
1732216	32216	5,0	1733217	33217	4,1
1732217	32217	5,0			
1732218	32218	5,0			



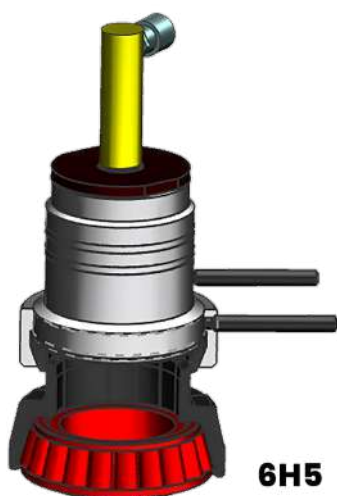
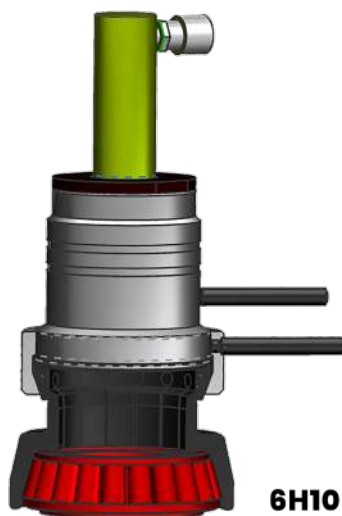
COMPLETE HYDRAULIC BALL BEARING PULLER

3700-6H0

This extractor allows to mount and dismount all types of bearings. For this extractor, collets that are made to measure for the bearing to be extracted are adapted. The price is for each collet, each collet extracts a different bearing. Hydraulic part included.

**Bullet points**

- Allows to assemble and disassemble ball bearings but also conical and cylindrical roller bearings that are highly complex to extract.
- Extraction collets are available for the following bearings. If the collets is not in the catalog, we manufactured under request.
- An opener is included to dismount the collets from the bearing after the extraction.

**6H5****6H10****6H**


Ref.	TON	⚖️	Hydraulic part	Mechanical part Parte mecánica
3700-6H5	5	32,0	00904	1700-6H5
3700-6H10	10	39,0	00909	1700-6H10
3700-6H	20	45,0	00918	1700-6H

WATCH
VIDEO

COMPLETE HYDRAULIC PULLER SERIE C1008

C1000




Ref.	Push puller	Puller	Splitter	
C1008	1110HF	1307LTH	1204B	10,5
C1009	1120HF	1310LTH	1206B	29,0

SERIE C3008 COMPLETE HYDRAULIC PULLER

C3000



Allow three types of uses:
 -2/3 oscilating jaws puller.
 -2 fix jaws pullers
 -Push puller and splitter.
 Point extension included.

Ref.	TON		Hydraulic part	Mechanical part	Splitter
C3008	5	29,0	00904	1108HF 1307LTH	1204B
C3009	10	50,0	00909	1120HF 1310LTH	1206B

Hydraulic part



Cylinder

Hose

Pump

Manometer

Mechanical part



Serie 1000HF fixed jaws

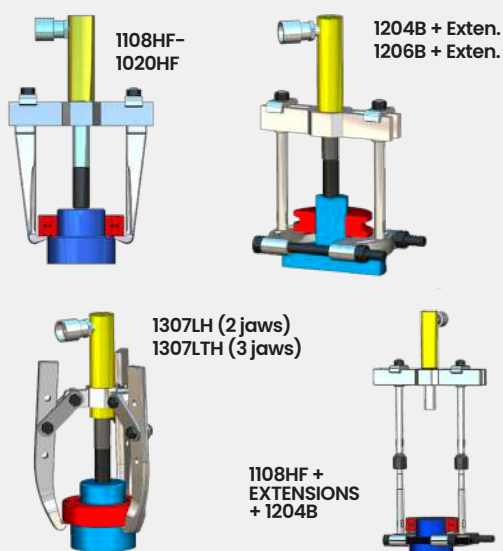
Serie 1200 splitter

Serie 1300LTH oscillating

Serie 1100HF push puller

Extensions and joining nuts

Can be mounted



1108HF-1020HF

1204B + Exten.
1206B + Exten.

1307LH (2 jaws)
1307LTH (3 jaws)

1108HF + EXTENSIONS + 1204B



SERIE CP MECHANICAL PART



Ref.	Push puller	Splitter	Internal puller	2 and 3 jaws puller	TON		Spare part
							Point protector
C0-10	1110H	1204B	1506H10	1310TH	12	37,0	111037
C1-18	1118H	1206B	1506H20	1318TH	20	61,0	111837
C2-30	1130H	1210C	1509H30	1330TH	30	132,0	113037
C3-45	1125H	1210D	1509H30	1352TH	60	273,0	113037
C3-50	1152H	1212D	1509H50	1352TH	60	303,0	113037
C3-52	1152H	1213D	1509H50	1352TH	6060	283,0	113037

SERIE CP COMPLETE HYDRAULIC SET

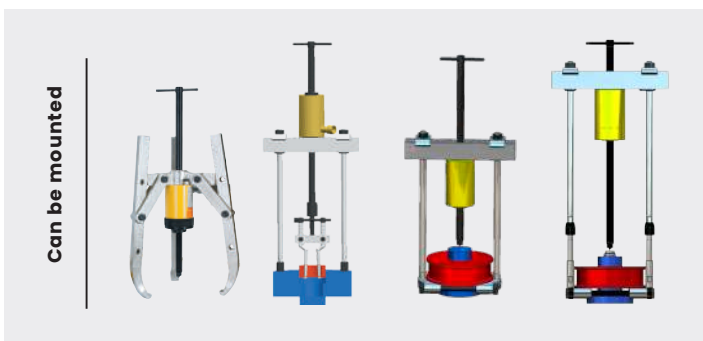


CP complete hydraulic set.
 In addition to the puller described in the table, it includes:
 - 2 pairs of extra extensions.
 - 2 link nuts.
 - Point protector.



Bullet points

- Hydraulic system: faster pulling with less effort.
- Versatility: with one set you can have many possibilities of extractions.
- Palletized black metal box.



Can be mounted

Ref.	TON		Hydraulic part	Mechanical part
CP-10	12	54,0	00910	C0-10
CP-20	20	83,0	00918	C1-18
CP-30	30	153,0	00930	C2-30
CP-45	60	227,0	00952	C3-45
CP-50	60	257,0	00952	C3-50


Hydraulic part	Mechanical part
Pump Cylinder Hose Manometer	Serie 1300TH self-centering Serie 1200 Splitter Serie 1500H internal puller Serie 1100H Push puller Extensions and body



SERIE CPA MECHANICAL PART

CMA



Ref.	Push puller	Splitter	Internal puller	2 and 3 jaws self centering puller	TON		Spare part
							Point protector
C0-10A	1110H	1204B	1506H10	1310THA	12	42,0	111037
C1-18A	1118H	1206B	1506H20	1318THA	20	77,0	111837
C2-30A	1130H	1210C	1509H30	1330THA	30	142,0	113037
C3-45A	1152H	1210D	1509H30	1352THA	60	259,0	113037
C3-50A	1152H	1212D	1509H50	1352THA	60	281,0	113037
C3-52A	1152H	1213D	1509H50	1352THA	60	318,0	113037
C4-95A	1195H	1213E	4709H95	1395THA	100	574,0	119537

SERIE CPA COMPLETE HYDRAULIC SET

CPA



CPA complete hydraulic set.

In addition to the puller described in the table, it includes:

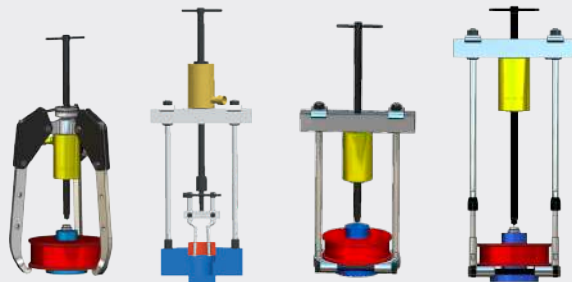
- 2 pairs of extra extensions.
- 2 link nuts.
- Point protector.


Bullet points

- Hydraulic system: faster pulling with less effort.
- Versatility: with one set you can have many possibilities of extractions.
- Automatic centering of the jaws, for a better grip.
- Palletized black metal box.



Can be mounted

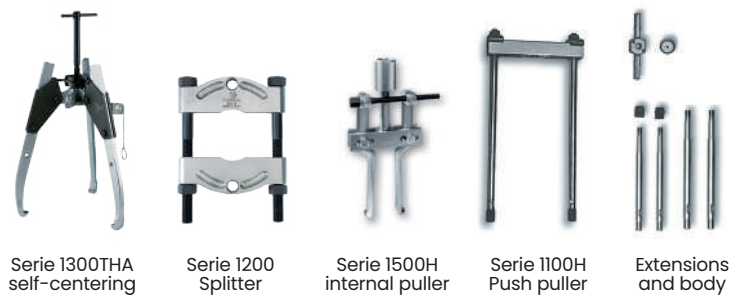


Ref.	TON		Hydraulic part	Mechanical part
CP-10A	12	56,0	00910	C0-10A
CP-20A	20	95,0	00918	C1-18A
CP-30A	30	160,0	00930	C2-30A
CP-45A	60	305,0	00952	C3-45A
CP-50A	60	361,0	00952	C3-50A
CP-52A	60	370,0	00952	C3-52A
CP-95A	100	667,0	00995	C4-95A

Hydraulic part



Mechanical part





SERIE CPN COMPLETE HYDRAULIC SET



Ref.	Push puller	Splitter	2 and 3 jaws puller	TON	⚖️	Spare part
						Point protector
C0-10N	1110H	1204B	1310TH	12	31,0	111037
C1-18N	1118H	1206B	1318TH	20	54,0	111037
C2-30N	1130H	1210C	1330TH	30	116,0	111837
C3-45N	1152H	1210D	1352TH	50	199,0	113037
C3-50N	1152H	1212D	1352TH	50	217,0	113037

SERIE CPN COMPLETE HYDRAULIC PULLER



CPN complete hydraulic set.
 In addition to the puller described in the table, it includes:
 - 2 pairs of extra extensions.
 - 2 joining nuts.
 - Point protector.



Bullet points

- Hydraulic mechanism: faster pulling with less effort.
- Versatility: with one set you can have many possibilities of extractions.
- Palletized black metal box.



Ref.	TON	⚖️	Hydraulic part	Mechanical part
CP-10N	12	47,0	00910	C0-10N
CP-20N	20	91,0	00918	C1-18N
CP-30N	30	137,0	00930	C2-30N
CP-45N	50	260,0	00952	C3-45N
CP-50N	50	278,0	00952	C3-50N

Hydraulic part

Pump
Cylinder
Hose
Manometer

Mechanical part


Serie 1300TH oscillating
Serie 1200 splitter
Serie 1100H push-puller
Extension and body



SERIE XP MECHANICAL PART



Spare part

Ref.	Push puller	Splitter	Internal puller	2 and 3 jaws extra long puller	TON		Point protector
X0-10	1110H	1204B	1506H10	1310THX	12	40,5	111037
X1-18	1118H	1206B	1506H20	1318THX	20	67,5	111837
X2-30	1130H	1210C	1509H30	1330THX	30	136,0	113037
X3-45	1125H	1210D	1509H30	1352THX	50	248,8	113037
X3-50	1152H	1212D	1509H50	1352THX	50	262,3	113037

SERIE XP COMPLETE HYDRAULIC SET



XP complete hydraulic set.

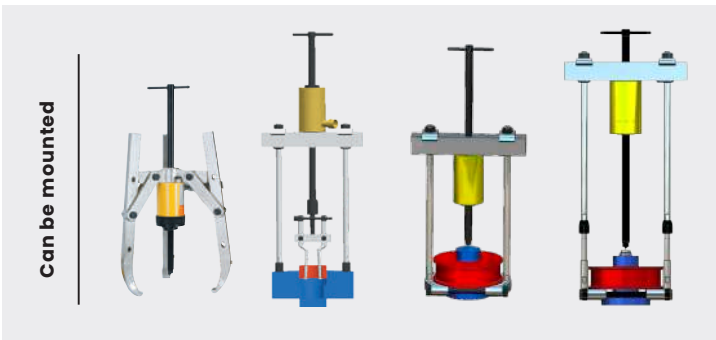
In addition to the puller described in the table, it includes:


- 2 pairs of extra extensions.
- 2 joining nuts.
- Point protector.



Bullet points

- Hydraulic system: faster pulling with less effort
- Versatility: with one set you can have many possibilities of extractions.
- Palletized black metal box.
- Extra large jaws.

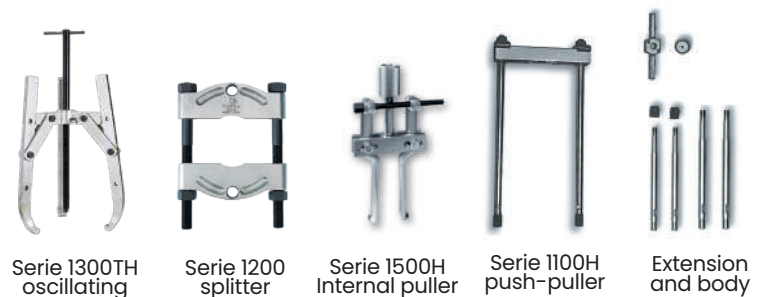


Ref.	TON		Hydraulic part	Mechanical part
XP-10	12	67,7	00910	X0-10
XP-20	20	103,5	00918	X1-18
XP-30	30	187,5	00930	X2-30
XP-45	50	291,8	00952	X3-45
XP-50	50	303,0	00952	X3-50

Hydraulic part



Mechanical part





SERIE KP MECHANICAL PART **KPM**



Ref.	Push puller	Splitter	Internal puller	TON	⚖️	Spare part
						Point protector
K0-10	1110H	1204B	1506H10	12	27,0	111037
K1-18	1118H	1206B	1506H20	20	38,0	111837
K2-30	1130H	1210C	1509H30	30	80,0	113037
K3-45	1152H	1210D	1509H30	50	138,2	113037
K3-50	1152H	1212D	1509H50	50	151,7	113037
K4-95	1195H	1213E	4709H95	100	280,3	119537

SERIE KP COMPLETE HYDRAULIC PULLER **KP**

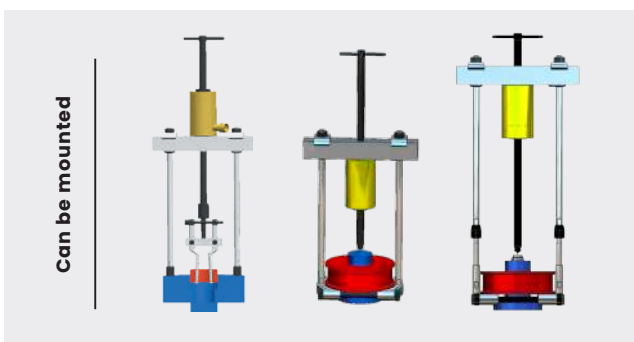


KP complete hydraulic set.
In addition to the puller described in the table, it includes:

- 1 pair of extra extensions
- 2 link nuts.
- Point protector.

Bullet points

- Hydraulic system: faster pulling with less effort
- Versatility: with one set you can have many possibilities of extractions
- Palletized black metal box



Can be mounted

Ref.	TON	⚖️	Hydraulic part	Mechanical part
KP-10	12	54,2	00910	K0-10
KP-20	20	70,0	00918	K1-18
KP-30	30	119,0	00930	K2-30
KP-45	50	181,2	00952	K3-45
KP-50	50	194,7	00952	K3-50
KP-95	100	358,3	00995	K4-95

Hydraulic part

Pump
Cylinder
Hose
Manometer

Mechanical part

Serie 1200 splitter
Serie 1500H internal puller
Serie 1100H push puller
Extensions and body



SERIE 1300CTA SELF CENTERING HYDRAULIC RAM PULLER

1300CTA








Self centering hydraulic ram puller with pump and cilinder integrated.
Long jaws (3 holes).



Bullet points

- Hydraulic system: faster pulling with less effort.
- Hydraulic ram spindle. It does not require a hydraulic pump.
- Self-centering system: automatic centering of the jaws for a better grip.
- The pull out improves thanks to the three jaws.

Ref.					Combines	TON		Spare part	
								Jaw	Hydraulic spindle
1306CLTA	380	360	50	220	2/3 jaws	6	15,1	131006	00806
1306CTA	300	310	50	220	2/3 jaws	6	14,2	131005	00806
1306CXTA	460	410	50	220	2/3 jaws	6	16,3	131016	00806
1308CLTA	485	480	70	205	-	8	23,8	131706	00808
1308CTA	370	425	70	205	-	8	21,7	131705	00808
1308CXTA	600	540	70	205	-	8	27,0	131716	00808

SERIE 1300CTH WITH PUMP AND CYLINDER

1300CTH






Hydraulic ram puller with pump and cilinder integrated.
Long jaws (3 holes).



Bullet points

- Hydraulic system: faster pulling with less effort.
- Hydraulic ram spindle. It does not require a hydraulic pump.
- The pull out improves thanks to the three jaws.

Ref.			TON	Combines		Spare part	
						Complete jaw	Hydraulic spindle
1306CLTH	380	360	6	2/3 Jaws	11,2	131060	00806
1306CTH	300	310	6	2/3 Jaws	10,2	131050	00806
1306CXTH	460	410	6	2/3 Jaws	13,6	131066	00806
1308CLTH	485	480	8	-	21,5	131760	00808
1308CTH	370	425	8	-	19,5	131750	00808
1308CXTH	600	540	8	-	23,5	131766	00808



SERIE 1010H FORZA HYDRAULIC RAM PULLER 1010H0

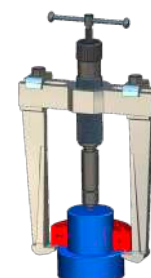


8Tn hydraulic fixed jaw puller.
For external and internal.
Use the handle to apply hydraulic force.
Do not use wrenches or levers to tighten the sub-spindle.



Bullet points

- Hydraulic system: faster pulling with less effort. The force is applied directly to the body.
- Faster assembly.



Ref.						Spare part	
						Hydraulic spindle	Complete jaw
1010AH	160	195	60	260	5,0	150000E	101050
1010H	160	150	60	210	4,7	150000E	101050
1010LAH	220	195	60	260	5,8	150000E	101060
1010LH	220	150	60	210	5,5	150000E	101060

SERIE 1018H FORZA 2 JAW PUSH PULLER 1108H0



8 Tn hydraulic puller with 2 extensions.
This puller combines with 1200 splitters.
Use the handle to apply hydraulic force.
Do not use wrenches or levers to tighten the sub-spindle.



RECOMMENDATION

The extension should be as close as possible to the pulley. The pulley should touch the extensions. This will prevent the extensions from bending.

Bullet points

- Hydraulic system: faster pulling with less effort.
- The force is applied directly to the body.

Ref.				Combines		Spare part	
						Hydraulic spindle	Point protector
1108AH	190	250	260	1204B	4,8	150000E	111037
1108H	190	200	210	1206B	4,3	150000E	111037



SERIE 1308TH 8 TONS HYDRAULIC PULLER

1308TH






8Tn hydraulic 3 jaw puller.
Use the handle to apply hydraulic force.
Do not use wrenches or levers to tighten the sub-spindle.
Jaws 3 holes.



Bullet points

- Hydraulic system: faster pulling with less effort.
- The force is applied directly to the body.
- 2 or 3 legs pulling.
- The pull out improves thanks to the three jaws.

Ref.			TON		Spare part	
					Hydraulic spindle	Complete jaw
1308TH	225	260	8	5,1	150000E	130760

SERIE 1308THA SELF CENTERING HYDRAULIC RAM PULLER

1308THA






8Tn hydraulic oscilating jaw puller.
Use the handle to apply hydraulic force.
Do not use wrenches or levers to tighten the sub-spindle.



Bullet points

- Hydraulic system: faster pulling with less effort.
- The force is applied directly to the body.
- Self-centering system: automatic centering of the jaws for a better grip.
- 2 or 3 legs pulling.
- The pull out improves thanks to the three jaws.

Ref.			TON		Spare part	
					Hydraulic spindle	Jaw
1308THA	225	260	8	6,8	150000E	130786

SERIE 7308ALTH SELF CENTERING HYDRAULIC RAM PULLER

7308ALTH






8Tn hydraulic 3 jaw oscilating puller.
Use the handle to apply hydraulic force.
Do not use wrenches or levers to tighten the sub-spindle.



Bullet points

- Hydraulic mechanism: faster pulling with less effort.
- Self-centering system: automatic centering of the jaws for a better grip.
- Possibility of extraction with 2 or 3 legs pulling.
- Safety pin to avoid overloading the spindle.
- The pull out improves thanks to the three jaws.



Ref.			TON		Spare part	
					Jaw	Hydraulic spindle
7308ALTH	270	280	8	7,5	730786	150000E



SERIE 1012H FORZA HYDRAULIC RAM PULLER

1012H0



12Tn hydraulic fixed jaw puller.
For external and internal.
Do not use wrenches or levers to tighten the sub-spindle.



Bullet points

- Hydraulic system: faster pulling with less effort.
- The force is applied directly to the body
- Faster assembly.
- Safety pin to avoid overloading the spindle.

Ref.					Spare part	
					Hydraulic spindle	Complete jaw
1012AH	160	195	260	5,2	150120	101050
1012H	160	150	210	4,9	150120	101050
1012LAH	220	195	260	5,9	150120	101060
1012LH	220	150	210	5,6	150120	101060

SERIE 1312TH HYDRAULIC RAM PULLER

1312TH



12Tn hydraulic 3 jaw puller.
Tighten the sub-spindle with a 17mm spanner.
Do not use wrenches or levers to tighten the sub-spindle.



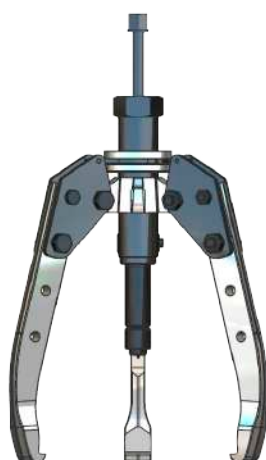
Bullet points

- Hydraulic system: faster pulling with less effort
- More rigidity in extraction: force is applied directly to the body
- Possibility of extraction with 2 or 3 legs pulling.
- Safety pin to avoid overloading the spindle.
- The pull out improves thanks to the three jaws.

Ref.				Spare part	
				Hydraulic spindle	Complete jaw
1312TH	225	260	5,2	150120	130760

SERIE 1312THA SELF CENTERING HYDRAULIC RAM PULLER

1312THA



12Tn hydraulic oscilating puller.
Tighten the sub-spindle with a 17mm spanner.
Do not use wrenches or levers to tighten the sub-spindle.



Bullet points

- Hydraulic mechanism: faster pulling with less effort.
- Self-centering system: automatic centering of the jaws for a better grip.
- Possibility of extraction with 2 or 3 legs pulling.
- Safety pin to avoid overloading the spindle.
- The pull out improves thanks to the three jaws.

Ref.				Spare part	
				Hydraulic spindle	Jaw
1312THA	225	260	7,6	150120	130786



SERIE 7312ALTH SELF CENTERING HYDRAULIC RAM PULLER

7312ALTH






12Tn hydraulic oscilating jaw puller.
Tighten the sub-spindle with a 17mm spanner.
Do not use wrenches or levers to tighten the sub-spindle.



Bullet points

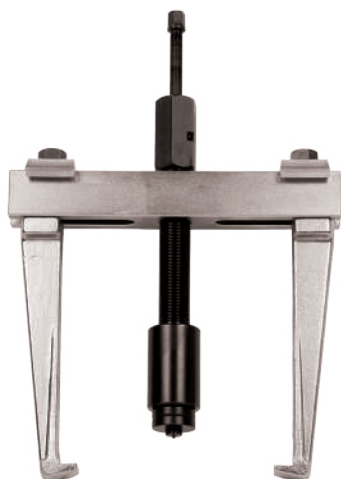
- Hydraulic system: faster pulling with less effort.
- Self-centering system: automatic centering of the jaws for a better grip.
- Possibility of extraction with 2 or 3 legs pulling.
- Safety pin to avoid overloading the spindle.
- The pull out improves thanks to the three jaws.



Ref.				Spare part	
				Jaw	Hydraulic spindle
7312ALTH	270	280	7,6	730786	150120

SERIE 1016H FORZA HYDRAULIC RAM PULLER

1016H0







16Tn hydraulic fixed jaw puller.
For external and internal.
Do not use wrenches or levers to tighten the sub-spindle.



Bullet points

- Hydraulic system: faster pulling with less effort.
- The force is applied directly to the body.
- Faster assembly.
- Safety pin to avoid overloading the spindle.

Ref.					Spare part		
					Hydraulic spindle	Complete jaw	Point protector
1016AH	160	390	475	15,0	101683	102050	111037
1016H	160	250	345	12,5	101683	102050	111037
1016LAH	290	390	475	17,5	101683	102060	111037
1016LH	290	250	345	15,5	101683	102060	111037
1016XH	160	600	675	22,0	101683	102050	111037
1016XLH	290	600	675	25,0	101683	102060	111037



HYDRAULIC PULLER SET C1004-C1006 **C10040**



8 tones hydraulic puller set with compact spindle.
For external and internal use.
Do not use wrenches or levers to tighten the sub-spindle.
They are supplied in a cardboard box.



Bullet points

- Hydraulic system: faster pulling with less effort.
- The force is applied directly to the body.
- Faster assembly.

Ref.	Puller	Long puller	Splitter	Push puller	
C1004	1010H	1010LH	1204B	1108H	11,3
C1006	1010AH	1010LAH	1206B	1108AH	15,0

HYDRAULIC PULLER SET C1005-C1012 **C10050**



8 and 12 Tons hydraulic puller set with compact spindle
For external and internal use.
Do not use wrenches or levers to tighten the sub-spindle
They are supplied in a red case.



Bullet points

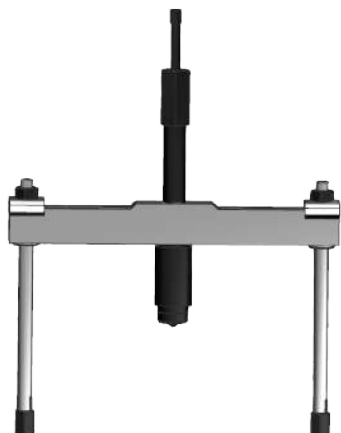
- Hydraulic system: faster pulling with less effort.
- The force is applied directly to the body.
- Faster assembly.

Ref.	Puller	Long puller	Splitter	Push puller	TON	
C1005	1308TH	1010LH	1204B	1108H	8	14,5
C1012	1312TH	1012LH	1204B	1108AH	12	15,0



SERIE 1116H PUSH PULLER AND HYDRAULIC RAM PULLER

1116H0



16Tn hydraulic puller with 2 extensions.
This puller combine with 1200 splitters
Do not use wrenches or levers to tighten the sub-spindle.

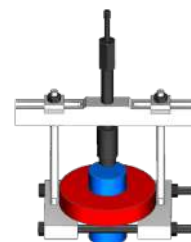







RECOMMENDATION

The extension should be as close as possible to the pulley. The pulley should touch the extensions. This will prevent the extensions from bending.

Bullet points

- Hydraulic system: faster pulling with less effort.
- The force is applied directly to the body.



Ref.					Combines		Spare part		
							Hydraulic spindle	Extender	Point protector
1116AH	155	445	173	475	1208B	13,8	101683	112080	111037
1116H	155	325	105	345	1206B	11,4	101683	112080	111037

SERIE 1315TH SELF CENTERING HYDRAULIC RAM PULLER

1315TH0






16Tn hydraulic 3 jaws puller.
Standard jaws (2 holes), long jaws L (3 holes) and extra long jaws X (4 holes).

Tighten the sub-spindle with a 17mm spanner.
Do not use wrenches or levers to tighten the sub-spindle.



Bullet points

- Hydraulic system: faster pulling with less effort.
- The force is applied directly to the body.
- Safety pin to avoid overloading the spindle.
- The pull out improves thanks to the three jaws.

Ref.				Spare part		
				Hydraulic spindle	Complete jaw	Point protector
1315LTH	385	480	23,0	101683	131750	111037
1315TH	265	425	20,0	101683	131750	111037
1315XTH	500	540	25,0	101683	131760	111037



SERIE 1315ATH SELF CENTERING HYDRAULIC RAM PULLER **1315ATH0**



16Tn hydraulic oscilating puller.
 Standard jaws (2 holes), long jaws L (3 holes) and extra long jaws X (4 holes).
 Tighten the sub-spindle with a 17mm spanner.
 Do not use wrenches or levers to tighten the sub-spindle.



Bullet points

- Hydraulic system: faster pulling with less effort.
- Self-centering system: automatic centering of the jaws for a better grip.
- Safety pin to avoid overloading the spindle.
- The pull out improves thanks to the three jaws.

Ref.				Spare part		
				Hydraulic spindle	Jaw	Point protector
1315ATH	265	425	29,0	101683	131705	111037
1315ALTH	385	480	32,0	101683	131706	111037
1315AXTH	500	540	35,0	101683	131716	111037

SERIE 2400H SELF CENTERING HYDRAULIC RAM PULLER **2400H**



16 Tn hydraulic fixed puller.
 Forged jaws with hexagonal spindle .
 Do not use wrenches or levers to tighten the sub-spindle.



Bullet points


- Hydraulic system: faster pulling with less effort.
- The force is applied directly to the body.
- Faster assembly.
- Safety pin to avoid overloading the spindle.

Ref.					Spare part		
					Hydraulic spindle	Complete jaw	Point protector
2430H	100	240	325	9,8	101683	C200	111037
2430LH	280	240	325	11,2	101683	C200	111037
2435H	100	350	425	11,0	101683	C200	111037
2435LH	280	350	425	12,1	101683	C200	111037
2440H	100	510	585	17,0	101683	C375	111037
2440LH	280	510	585	18,0	101683	C375	111037
2450H	125	640	717	29,8	101683	D225	111037
2450LH	250	640	717	28,0	101683	D350	111037




COMPACT HYDRAULIC RAM SPINDLES



Ref.	Length	Power (Tn)	Threaded length	Strap	
00806	340	6	120	70	3,1
00808	360	8	155	85	3,8


8 TON HYDRAULIC RAM SPINDLE



Ref.	R (Conection)	L (Length)	
150000E	1/12" 16h	189	1,5


12 TON HYDRAULIC RAM SPINDLE



Ref.	R (Conection)	L (Length)	C (Distance between faces)	
150120	1/12" 16h	158	17	1,6

15 TON HYDRAULIC RAM SPINDLE



Ref.	R (Conection)	L (Length)	C (Distance between faces)	
101683	1" Gas 11h	460	17	3,4



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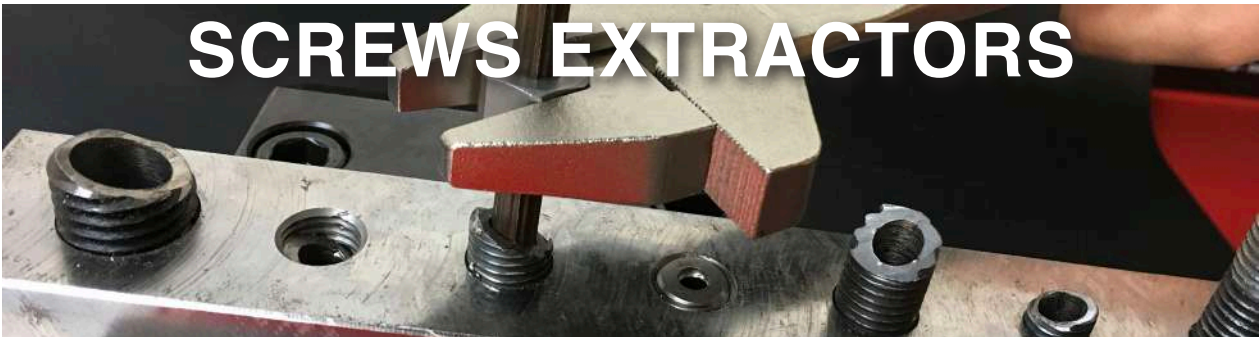
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 www.falconczech.cz



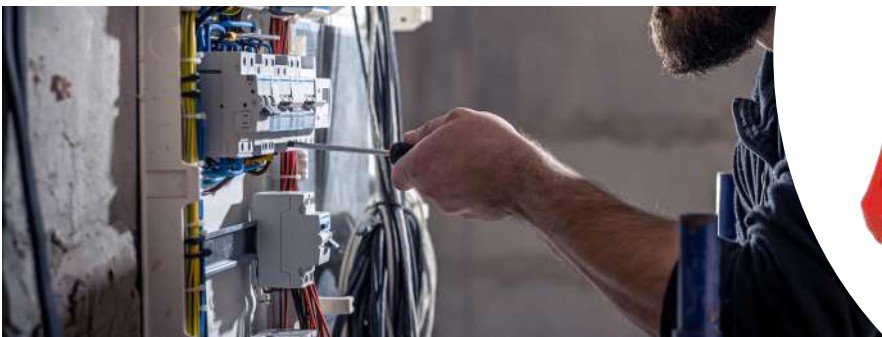
FORZA



STUDS AND BROKEN



SCREWS EXTRACTORS



BROKEN SCREWS AND STUDS EXTRACTOR:

Spanish manufacturing since more than 50 years.

Wide variety of broken stud and screws removal tool set.



BROKEN SCREW AND STUD EXTRACTOR



Stud extractors 135-136



Broken screw extractors 137-140



Helical square extractors sets 141-142



Left hand thread broken stud extractor..... 143



Broken screw extractor exhibitor 144



Gripping paste and magnetic sockets 144



STUD EXTRACTOR SERIE 2000 2000

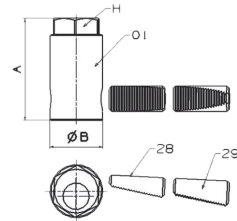


Broken stud extractor.
Includes puller body plus two wedge of different sizes in order to block the stud.



Bullet points

- It allows to extract the stud in a very centered position.



Ref.	Ømax	Ømin	Puller height	Hexagon	Puller external diameter	⚖️
2001	16	10	75	30	34	0,4
2002	25	15	100	44	50	1,3

STUD EXTRACTOR SERIE 2100 2100

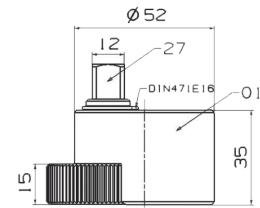


Extractor for broken studs and screws without head.



Bullet points

- Easy to use.
- It can be used with a wide range of studs.



Ref.	Ømax	Ømin	Puller height	Square drive	Eccentric length	⚖️
2101	19	6	35	12	15	0,5

STUD EXTRACTOR SERIE 2300 2300

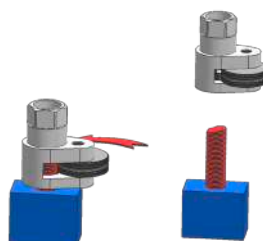


Extractor for broken studs and screws without head.
The body contains an eccentric fixed by a screw.



Bullet points

- The hole is grooved in order to improve the blocking system.
- It allows to extract the stud in a very centered position.



Ref.	Ømax	Ømin	Puller height	⚖️
2301	9,5	4,5	46	0,1
2302	19	8	60	0,4
2303	25	15	68	0,6



EXTRACTORS SET WITH ROLLERS

T51310


Set of extractors for extracting studs with rollers. It consists of a body and rollers that apply homogeneous pressure.



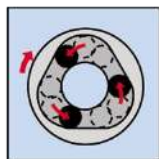
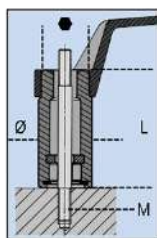
Bullet points


- The tool improves the extraction, making the work faster.



Ref.	Threads		Spare parts
			Stud extractors
T51310	M6-M8-M10-M12	1,3	T51311
			T51312
			T51313
			T51314

STUD EXTRACTORS



Ref.	Thread	
T51311	M6	0,2
T51312	M8	0,2
T51313	M10	0,3
T51314	M12	0,3



Discover Bricocrack using our stud and broken bolt extractors!





STUD GROOVED SET SERIE 5010 **5010S**



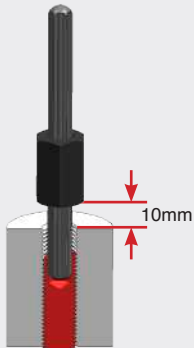
Set of 5 broken screws extractors
 Contains 5 males and 5 nuts.
 Red plastic box.



Bullet points

- Composed of straight grooved males which prevent the screw thread expansion while being nailed.
- Left threaded screws can be also extracted.

Ref.	From	To	Scales	Spare parts
				Stud grooved extractors
5010	M-5	M20	0,3	5011 - 5012 - 5013 5014 - 5015
5010E	M-5	M20	0,3	5011 - 5012 - 5013 5014 - 5015

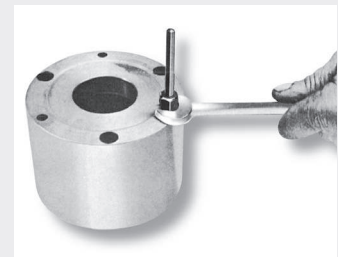


For a proper extractors work, is important:

- 1- Use the largest extractors.
 - 2- Work with the nut 10mm away.
- If the distance is too short, the screw uses to break.
 If the distance is too long, the screw easily twits.
 The males because of its little value can consider consumables.



Drill the broken screw with the diameter which corresponds.
 The extractor is introduced with a hammer.
 With a wrench turn the inverse way to the screw.



STUD GROOVED EXTRACTORS



Ref.	Lenght	Drill diameter	Hexagon nut	Nut height	Scales
5011	57	4	10	16	0,1
5012	68	5	11	16	0,1
5013	78	6	13	16	0,1
5014	84	7.5	14	16	0,1
5015	94	8.5	16	16	0,1



DRILLS AND EXTERNAL GUIDES SET SERIE 5010C

5010C

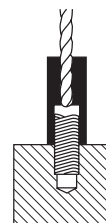


Set of 5 broken screws puller.
Contains 5 males, 5 nuts, 5 drill bits and 10 external guides.
Red plastic box.




Bullet points

- Composed of straight grooved males which prevents the screw thread expansion while being nailed.
- Left threaded screws can be also extracted.




Exterior

Ref.	From	To		Spare parts		
				Stud grooved extractors	Right hand drill	Guides set
5010C	M-5	M20	0,7	5011	501040	5010CK1 5010CK2 5010CK3
				5012	501050	
				5013	501060	
				5014	501075	
				5015	501085	

RIGHT DRILL BITS

Drills for screw extractors.




Ref.	Drill diameter	
501040	4	0,1
501050	5	0,1
501060	6	0,1
501075	7,5	0,1
501085	8,5	0,1

EXTERNAL GUIDES SETS

Guides for screw extractors.



Ref.	Screw exterior	ø Drill	Nº of guides	
5010CK1	M-5, M-6, ø7, M-8	4	4	0,1
5010CK2	M-8, ø9, M-10	5	3	0,1
5010CK3	ø11, M-12, M-14	6 - 7,5 - 8,5	3	0,1

DRILLS AND DOUBLE GUIDES SET SERIE 5010CD 5010CD

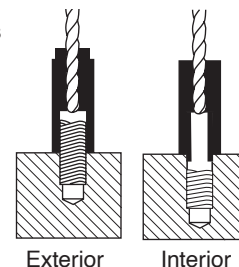


Set of 5 broken screw extractors.
 Contains 5 males, 5 nuts, 5 drill bits and 10 external and internal guides.
 Red plastic box.



Bullet points

- Composed of straight grooved males which prevents the screw thread expansion while being nailed.
- Left threaded screws can be also extracted.



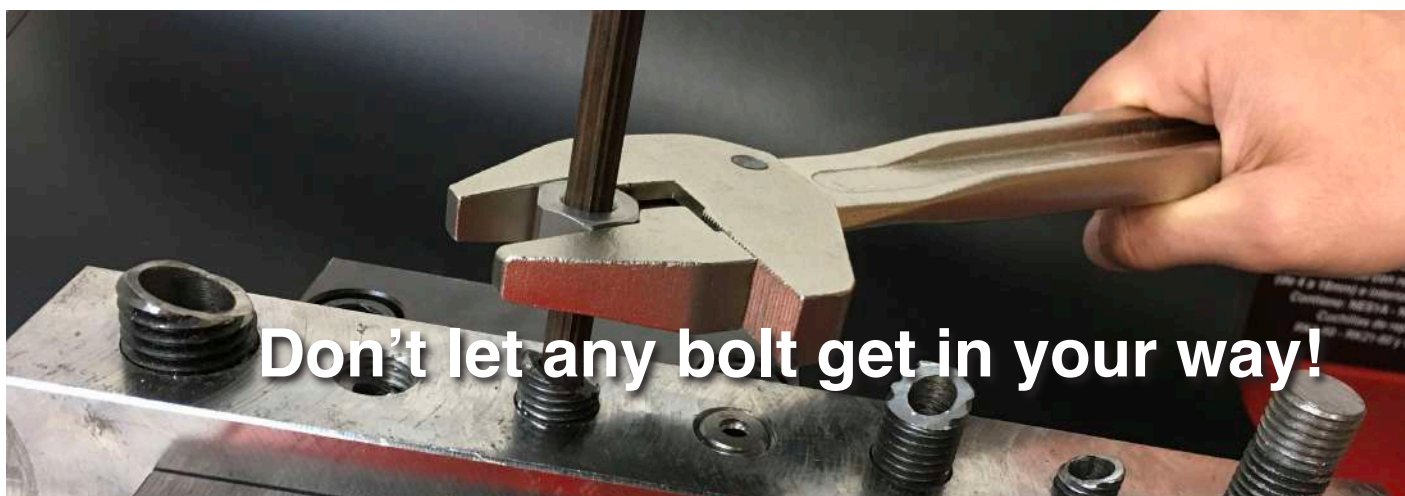
Ref.	From	To	⚖️	Spare parts			
				Stud grooved extractors	Right hand drill	Set guides	
5010CD	M-5	M20	0,7	5011	501040	5010CDK1	
				5012	501050		
				5013	501060		5010CDK2
				5014	501075		5010CDK3
				5015	501085		

EXTERNAL AND INTERNAL GUIDES SETS

External and internal dual guide for screw extractors.



Ref.	External	Internal	∅ Drill	Nº of guides	⚖️
5010CDK1	M-5, M-6, ∅7, M-8	-, M6, M8, 3/8"	4	4	0,1
5010CDK2	M-8, ∅9, M-10	1/2", M-10, 7/16"	5	3	0,1
5010CDK3	∅11, M-12, M-14	M12, M14, M16	6 - 7,5 - 8,5	3	0,1



LEFT HAND DRILLS AND INTERNAL & EXTERNAL GUIDES SET

5010KI



Set of 5 broken screws extractors.
Contains 5 males, 5 nuts, 5 drill bits and 10 external and internal guides.
The drills should rotate counterclockwise (left).
Red plastic box.



Bullet points

- Composed of straight grooved males which prevents the screw thread expansion while being nailed.
- Left hand drills loosening the screw during drilling.
- Left threaded screws can be also extracted.



Ref.	From	To	⚖️	Spare parts		
				Stud grooved extractors	Drills	Set guides
5010KI	M-5	M20	0,7	5011	501140	
				5012	501150	5010CDK1
				5013	501160	5010CDK2
				5014	501175	5010CDK3
				5015	501185	

LEFT DRILL BITS



Ref.	Drill diameter	⚖️
501140	4	0,1
501150	5	0,1
501160	6	0,1
501175	7,5	0,1
501185	8,5	0,1

STUD AND SCREW EXTRACTORS SET SERIE 9001

9001



Set of broken screw extractors.
Contains 5 males, 5 nuts, 5 drill bits, 10 external and internal guides and 2 extractor for broken studs ref. 2301&2302.
Red plastic box.



Bullet points

- Composed of straight grooved males which prevents the screw thread expansion while being nailed.
- It also contains broken stud extractors.
- Left threaded screws can be also extracted.



Ref.	⚖️	Spare parts		
		Stud extractor	Set	Right hand drill
9001	1,1	2301 2302	5010CD	501040 - 501050 501060 - 501075 501085



HELICAL SQUARE EXTRACTORS SET SERIE 5010N 5010N

Set of 4 broken screws extractors.
Supplied in a red plastic suitcase.



Bullet points

- Left hand helical square extractors for easy removal of the extractor from the screw.

Ref.	From	To	⚖️	Spare parts
				Helical extractors
5010N	M-6	M-16	0,4	5011N 5012N 5013N 5014N

HELICAL SQUARE EXTRACTORS SET SERIE 5010NS 5010NS

Set of 6 broken screws extractors.
Supplied in a blue plastic suitcase.

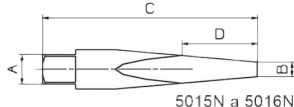
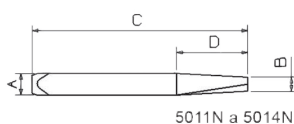


Bullet points

- Left hand helical square extractors for easy removal of the extractor from the screw.

Ref.	From	To	⚖️	Spare parts
				Helical extractors
5010NS	M-6	M-26	1,0	5011N - 5012N 5013N - 5014N 5015N - 5016N

HELICAL EXTRACTORS



Ref.	Square	Square	Length	Pyramid length	ø Drill	Screw	⚖️
5011N	6	3	102	26	3,75 a 4	From M6 to M8	0,1
5012N	8	4	108	35	4,7 a 5	From M8 to M10	0,2
5013N	10	5.5	118	37	6,5 a 7	From M10 to M12	0,3
5014N	12	7.8	118	39	10 a 10,5	From M14 to M16	0,1
5015N	18	8	130	45	12 a 15	From M16 to M22	0,3
5016N	18	12.7	130	47	13 a 16	From M20 to M26	0,3
5017N	22	13	145	50	16	From M24 to M34	0,6






DRILLS AND EXTERNAL GUIDES SET SERIE 5010TR

5010TR



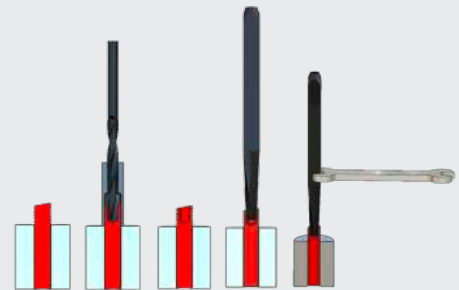
Set of 4 broken screws puller.
Contains 4 drill bits and 8 external guides
Red plastic box.



Ref.	From	To		Spare parts	
				Right hand drill	Helical extractors
5010TR	M-6	M-16	0,7	501040	5011N - 5012N
				501050	5013N - 5014N



- 1- Use the most largest possible extractor.
- 2- Make the hole as biger as possible, this weakened the screw when extracting and makes the extractor.
- 3- Since it is square, the whole handle can be pulled with the wrench as low as possible, this makes the extractor twist less.



BROKEN SCREW EXTRACTOR IN BOX SERIE 5010RE

5010RE



Set of 5 broken screw extractors with left-hand tapered thread
Supplied in a red plastic box.




Bullet points

- Thanks to the left hand conical thread, while pulling right hand the extraction is easilier

Ref.	From	To		Spare parts
				Left thread extractors
5010RE	M-5	M-20	0,2	5011R - 5012R
				5013R - 5014R
				5015R

LEFT HAND THREAD EXTRACTORS



Ref.	Smaller diameter	Bigger diameter	Square	Lenght	Drill	
5011R	2.7	4	5	51	3	0,1
5012R	3.3	4.7	5	58	4	0,1
5013R	4.6	6	6	66	5	0,1
5014R	5.5	8	8	73	6	0,1
5015R	6.7	10.5	10	80	8	0,1



5 SCREW EXTRACTOR SET 5-19MM **5135**

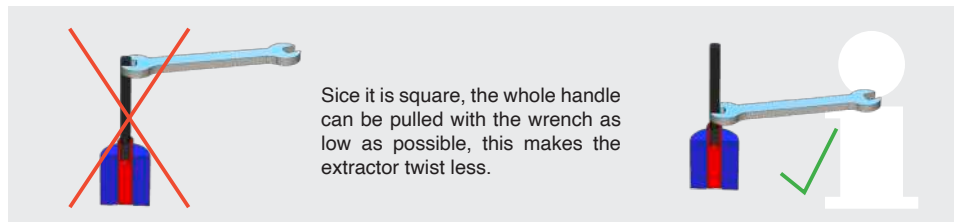
Square stud extractor set.
Drill bits from 3 mm to 9.5mm.



Bullet points

- Left threaded screws can be also extracted.

				Spare parts
Ref.	Ømin	Ømax		Square stud extractor
5135	M5	M18	0,2	51351 - 51352 - 51353 51354 - 51355



Since it is square, the whole handle can be pulled with the wrench as low as possible, this makes the extractor twist less.

SQUARE STUD EXTRACTORS



Ref.	Drill	
51351	3mm(1/8")	0,1
51352	4.5mm(3/16")	0,1
51353	6mm(15/16")	0,1
51354	7.5mm(5/16")	0,1
51355	9.5mm(3/8")	0,1

5 LEFT-HAND THREADED SCREW EXTRACTORS **T51300**

Economical set of 5 left-hand thread extractors for broken screws.



Ref.	From	To	
T51300	4	20	0,1

BROKEN SCREWS EXTRACTORS EXHIBITOR 50100

50100




Strong cardboard display consisting of 2 models of screw extractors:
 -Left-hand tapered thread 5010RE broken screw extractor.
 - Serie 5010E stud grooved set.



Bullet points

- Improves the presence of the product at the sales point.

Ref.	Contains		Exhibitor
50100	3 - 5010E + 6 - 5010RE	2,0	50100E


SREW GRAB

GG005



Gripping paste which helps the tools not to slip.
 Very useful for allen wrenches, screwdrivers... Help to loose and ti
 tight damaged screws.



Ref.	
GG005	0,1

Screw Grab Video




MAGNETICS SOCKETS

52004200



Removable magnetic socket wrench inserts securely holds nuts,
 bolts, self-tapping screws inside the socket to reach hard-to-reach
 areas.




Suitable for 1/4", 3/8" and 1/2" socket spaners.

Bullet points

- Avoid loosing screws while working.



Ref.	Measures	
5200420	Inch: 3/8" - 7/16" - 1/2" - 9/16" - 5/8" - 11/16" - 3/4" - 13/16" - 7/8"	0,1
5210420	Milimeters: 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19	0,1



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AND CUTTING TOOLS



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CIRCULAR KNOCK OUT PUNCH SERIE 54 **54**

Mechanical metal sheet punches with anti-scratch washer. Standard punches can cut up to 2 mm in steel sheets and 1.5 mm in stainless steel sheets.




Bullet points

- The screws of the 54 series drills are of very high strength 140Kg/mm².
- Better performance and longer life due to ground cutting edge.



The standard punches can cut up to 2 mm in steel plates and up to 1,5* mm in stainless steel sheet plates.

*This is a general recommendation; there is a wide range of steels and stainless steels. It is strongly recommended to use oil in the steel plate before cutting (e.g. using protoolube). In case of any doubt, it is recommended to use serie 56 (more cutting capacity).

Ref.	Ø	Inch	PG	Screw		Spare part
						Screw and washer
54/13	13	1/2"	-	M8	0,1	542008
54/14	14	-	-	M8	0,1	542008
54/15	15	-	9	M8	0,1	542008
54/16	16	5/8"	-	M8	0,1	542008
54/17	17	-	-	M8	0,1	542008
54/18	18	-	11	M8	0,1	542008
54/19	19	3/4"	-	M8	0,1	542008
54/20	20	-	13	M10	0,1	542010
54/21	21	-	-	M10	0,1	542010
54/22	22	7/8"	16	M10	0,2	542010
54/23	23	-	-	M10	0,2	542010
54/24	24	-	-	M10	0,2	542010
54/25	25	1"	-	M10	0,2	542010
54/26	26	-	-	M10	0,2	542010
54/27	27	-	-	M10	0,2	542010
54/28	28	1 3/32"	21	M12	0,3	542012
54/29	29	-	-	M12	0,3	542012
54/30	30	-	-	M12	0,3	542012
54/31	31	-	-	M12	0,3	542012
54/32	32	1 1/4"	-	M12	0,3	542012
54/33	33	-	-	M12	0,3	542012
54/34	34	1 11/32"	-	M12	0,4	542012
54/35	35	-	-	M12	0,4	542012
54/36	36	-	-	M12	0,4	542012
54/37	37	-	29	M12	0,4	542012
54/38	38	1 1/2"	-	M12	0,4	542012
54/39	39	-	-	M12	0,5	542012
54/40	40	-	-	M14	0,6	542014
54/41	41	-	-	M14	0,6	542014
54/42	42	-	-	M14	0,6	542014
54/43	43	1 11/16"	-	M14	0,7	542014
54/44	44	-	-	M14	0,7	542014
54/45	45	-	-	M14	0,6	542014
54/46	46	-	-	M14	0,7	542014
54/47	47	-	36	M14	0,8	542014
54/48	48	-	-	M14	0,8	542014
54/49	49	-	-	M14	0,9	542014
54/50	50	-	-	M14	0,9	542014
54/51	51	2"	-	M14	0,9	542014
54/52	52	-	-	M14	0,9	542014
54/55	55	-	42	M20	1,6	542020
54/60	60	2 3/8"	48	M20	1,7	542020
54/62	62	2 7/16"	-	M20	1,7	542020
54/63	63	2 1/2"	-	M20	1,7	542020
54/65	65	2 9/16"	-	M20	2,1	542020
54/70	70	2 3/4"	-	M20	2,1	542020
54/72	72	2 13/16"	-	M20	2,1	542020
54/75	75	-	-	M20	2,6	542020
54/76	76	3"	-	M20	2,6	542020
54/80	80	3 1/8"	-	M20	2,6	542020
54/85	85	3 3/8"	-	M20	3,3	542020
54/89	89	3 1/2"	-	M20	3,3	542020
54/90	90	-	-	M20	3,3	542020
54/91	91	3 9/16"	-	M20	3,3	542020
54/95	95	3 3/4"	-	M20	3,8	542020
54/100	100	-	-	M20	3,9	542020
54/102	102	4"	-	M20	3,9	542020
54/105	105	4 1/8"	-	M20	4,1	542020
54/110	110	4 5/16"	-	M20	4,5	542020
54/115	115	4 1/2"	-	M20	4,6	542020
54/116	116	4 9/16"	-	M20	4,6	542020

KNOCK OUT PUNCH WITH BEARING SERIE 55

55



Standard punches can cut up to 2 mm in steel sheets and 1.5 mm in stainless steel sheets.



Bullet points

- The screws of the 55 series punches are of very high strength 140Kg/mm2.
- The series 55 includes a bearing which increases the performance of the punch by 200%, therefore, half of the strength is required when cutting. Recommended for large diameter holes.
- Better performance and longer life due to ground cutting edge.

Ref.	Ø	Inch	PG	Screw	⚖️	Spare part
						Screw with bearing
55/13	13	1/2"	-	M8	0,1	540108R
55/14	14	-	-	M8	0,1	540108R
55/15	15	-	9	M8	0,1	540108R
55/16	16	5/8"	-	M8	0,1	540108R
55/18	18	-	11	M10	0,2	540110R
55/20	20	-	13	M10	0,2	540110R
55/21	21	-	-	M10	0,2	540110R
55/22	22	7/8"	16	M10	0,2	540110R
55/23	23	-	-	M10	0,2	540110R
55/24	24	-	-	M10	0,2	540110R
55/25	25	1"	-	M10	0,2	540110R
55/26	26	-	-	M10	0,2	540110R
55/27	27	-	-	M10	0,2	540110R
55/28	28	1 3/32"	21	M12	0,4	540112R
55/29	29	-	-	M12	0,4	540112R
55/30	30	-	-	M12	0,4	540112R
55/31	31	-	-	M12	0,4	540112R
55/32	32	1 1/4"	-	M12	0,4	540112R
55/33	33	-	-	M12	0,4	540112R
55/34	34	1 11/32"	-	M12	0,5	540112R
55/35	35	-	-	M12	0,5	540112R
55/36	36	-	-	M12	0,5	540112R
55/37	37	-	29	M12	0,5	540112R
55/38	38	1 1/2"	-	M12	0,5	540112R
55/39	39	-	-	M12	0,5	540112R
55/40	40	-	-	M14	0,7	540114R
55/41	41	-	-	M14	0,8	540114R
55/42	42	-	-	M14	0,8	540114R
55/43	43	1 11/16"	-	M14	0,8	540114R
55/44	44	-	-	M14	0,9	540114R
55/45	45	-	-	M14	0,8	540114R
55/46	46	-	-	M14	0,9	540114R
55/47	47	-	36	M14	0,9	540114R
55/48	48	-	-	M14	0,9	540114R
55/49	49	-	-	M14	1,0	540114R
55/50	50	-	-	M14	1,0	540114R
55/51	51	2"	-	M14	1,0	540114R
55/52	52	-	-	M14	1,1	540114R
55/55	55	-	42	M20	1,8	540120R
55/60	60	2 3/8"	48	M20	2,0	540120R
55/63	63	2 1/2"	-	M20	1,9	540120R
55/65	65	-	-	M20	2,3	540120R
55/70	70	-	-	M20	2,3	540120R
55/72	72	-	-	M20	2,4	540120R
55/75	75	-	-	M20	2,8	540120R
55/80	80	-	-	M20	2,8	540120R
55/85	85	-	-	M20	3,5	540120R
55/90	90	-	-	M20	3,5	540120R
55/95	95	-	-	M20	4,1	540120R
55/100	100	-	-	M20	4,1	540120R
55/105	105	-	-	M20	4,3	540120R
55/110	110	-	-	M20	4,6	540120R
55/115	115	-	-	M20	4,9	540120R

The standard punches can cut up to 2 mm in steel plates and up to 1,5* mm in stainless steel sheet plates.

*This is a general recommendation; there is a wide range of steels and stainless steels. It is strongly recommended to use oil in the steel plate before cutting (e.g. using protoolube). In case of any doubt, it is recommended to use serie 56 (more cutting capacity).

KNOCK OUT PUNCH WITH BEARING SERIE 56 56

MORE CUTTING CAPACITY

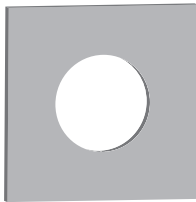
Reinforced series for cutting up to 3 mm in steel sheets and 2 mm in stainless steel sheets.


Other punch sizes can be modified to cut different thicknesses on request.



Bullet points

- The screws of the 56 series drills are of very high strength 140Kg/mm2.
- They include a bearing which increases the performance of the drill by 200%, therefore, half the force is required. Recommended for large diameter holes.
- Better performance and longer life due to ground cutting edge.



Ref.	Ø	Inch	PG	Screw		Spare part
						Screw with bearing
56/16	16	5/8"	-	M8	0,1	540108R
56/18	18	-	11	M8	0,1	540108R
56/20	20	-	13	M10	0,2	540110R
56/22	22	7/8"	16	M12	0,2	540112R
56/25	25	1"	-	M12	0,2	540112R
56/28	28	1 3/32"	21	M12	0,3	540112R
56/30	30	-	-	M12	0,3	540112R
56/32	32	1 1/4"	-	M12	0,3	540112R
56/35	35	-	-	M12	0,4	540112R
56/37	37	-	29	M12	0,4	540112R
56/40	40	-	-	M14	0,6	540114R
56/45	45	-	-	M14	0,6	540114R
56/47	47	-	36	M14	0,8	540114R
56/50	50	-	-	M14	0,9	540114R
56/55	55	-	42	M20	1,6	540120R
56/60	60	2 3/8"	48	M20	1,7	540120R
56/63	63	2 1/2"	-	M20	1,7	540120R



KNOCK OUT PUNCH WITHOUT GRINDING

54VAL



Mechanical metal sheet punches without grinding and with a anti-scratch washer.
Standard punches can cut up to 2 mm in steel sheets and 1.5 mm in stainless steel sheets.



The standard punches can cut up to 2 mm in steel plates and up to 1,5* mm in stainless steel sheet plates.

*This is a general recommendation; there is a wide range of steels an stainless steels. It is strongly recommended to use oil in the steel plate before cutting (e.g. using protoolube). In case of any doubt, it is recommended to use serie 56 (more cutting capacity)

Ref.	Ø	Inch	PG	Screw	⚖️	Spare part
						Screw and washer
54VAL13	12,7	1/2"	-	M8	0,1	54V108
54VAL14	14	-	-	M8	0,1	54V108
54VAL15	15	-	9	M8	0,1	54V108
54VAL16	16	5/8"	-	M8	0,1	54V108
54VAL18	18	-	11	M8	0,1	54V108
54VAL19	19	3/4"	-	M8	0,1	54V108
54VAL20	20	-	13	M10	0,1	54V110
54VAL22	22	7/8"	16	M10	0,1	54V110
54VAL25	25	1"	-	M10	0,2	54V110
54VAL28	28	1 3/32"	21	M12	0,3	54V112
54VAL30	30	-	-	M12	0,3	54V112
54VAL32	32	1 1/4"	-	M12	0,3	54V112
54VAL34	34	1 11/32"	-	M12	0,4	54V112
54VAL35	35	-	-	M12	0,4	54V112
54VAL37	37	-	29	M12	0,4	54V112
54VAL38	38	1 1/2"	-	M12	0,4	54V112
54VAL40	40	-	-	M14	0,6	54V114
54VAL43	43	1 11/16"	-	M14	0,7	54V114
54VAL45	45	-	-	M14	0,6	54V114
54VAL47	47	-	36	M14	0,7	54V114
54VAL49	49	1 1/16"	-	M14	0,9	54V114
54VAL50	50	-	-	M14	0,8	54V114
54VAL51	51	2"	-	M14	0,9	54V114
54VAL52	52	-	-	M14	0,9	54V114
54VAL55	55	-	42	M20	1,5	54V120
54VAL60	60	2 3/8"	48	M20	1,6	54V120
54VAL62	61,8	2 7/16"	-	M20	1,6	54V120
54VAL63	63	2 1/2"	-	M20	1,6	54V120
54VAL76	76	3"	-	M20	2,4	54V120
54VAL89	89	3 1/2"	-	M20	3,2	54V120
54VAL91	91	3 9/16"	-	M20	3,3	54V120
54VAL102	102	4"	-	M20	3,8	54V120
54VAL116	116	4 9/16"	-	M20M20	4,6	54V120

KNOCK OUT PUNCH WITHOUT GRINDING WITH BEARING 55VAL



Mechanical sheet punches without grinding and bearing with anti-scratch washer. Standard punches can cut up to 2 mm in steel sheets and 1.5 mm in stainless steel sheets.



Bullet points

- The screws of the 55 series drills are of very high strength 140Kg/mm².
- The series 55 includes a bearing which increases the performance of the drill by 200%, therefore, half of the strength is required when cutting.

The standard punches can cut up to 2 mm in steel plates and up to 1,5* mm in stainless steel sheet plates.

*This is a general recommendation, there is a wide variety of steels and stainless steels. It is advisable to oil the sheet metal before cutting (e.g. use protoolube). In case of doubt, it is recommended to use series 56.

Ref.	Ø	Inch	PG	Screw	⚖️	Spare part
						Screw with bearing
55VAL13	12,7	1/2"	-	M8	0,1	540108R
55VAL14	14	-	-	M8	0,1	540108R
55VAL15	15	-	9	M8	0,1	540108R
55VAL16	16	5/8"	-	M8	0,1	540108R
55VAL18	18	-	11	M8	0,1	540108R
55VAL19	19	3/4"	-	M8	0,1	540108R
55VAL20	20	-	13	M10	0,2	540110R
55VAL22	22	7/8"	16	M12	0,2	540112R
55VAL25	25	1"	-	M12	0,2	540112R
55VAL28	28	1 3/32"	21	M12	0,4	540112R
55VAL30	30	-	-	M12	0,4	540112R
55VAL32	32	1 1/4"	-	M12	0,4	540112R
55VAL35	35	-	-	M12	0,5	540112R
55VAL37	37	-	29	M12	0,5	540112R
55VAL38	38	1 1/2"	-	M12	0,6	540112R
55VAL40	40	-	-	M14	0,7	540114R
55VAL43	43	1 11/16"	-	M14	0,9	540114R
55VAL45	44	-	-	M14	0,8	540114R
55VAL47	47	-	36	M14	0,9	540114R
55VAL49	49	-	-	M14	1,0	540114R
55VAL50	50	-	-	M14	1,0	540114R
55VAL51	51	2"	-	M14	1,0	540114R
55VAL52	52	-	-	M14	1,1	540114R
55VAL55	55	-	42	M20	1,9	540120R
55VAL60	60	2 3/8"	48	M20	1,9	540120R
55VAL62	62	2 7/16"	-	M20	1,9	540120R
55VAL63	63	2 1/2"	-	M20	1,9	540120R
55VAL76	76	3"	-	M20	2,8	540120R
55VAL89	89	3 1/2"	-	M20	3,5	540120R
55VAL91	91	3 9/16"	-	M20	3,5	540120R
55VAL102	102	4"	--	M20	4,2	540120R
55VAL116	116	4 9/16"	-	M20	4,9	540120R



SCREW AND WASHER

Spare parts screws and washers for mechanical punches.



Ref.	Metrics	⚖️
54V108	M8	0,1
54V110	M10	0,1
54V112	M12	0,1
54V114	M14	0,1
54V120	M20	0,3
542008	M8	0,1
542010	M10	0,1
542012	M12	0,1
542014	M14	0,1
542020	M20	0,4

SCREW WITH BEARING

Replacement screws with bearing for mechanical punches.



Ref.	Metrics	⚖️
540108R	M8	0,1
540110R	M10	0,1
540112R	M12	0,1
540114R	M14	0,2
540120R	M20	0,4

SETS FOR AMERICAN MARKET
55VL90R


Sets with Conduit Punches

Sizes for the American market with bearing

Thanks to the included bearing, the performance of the punches is increased by 200%. This means that it requires only half the force of the punches.



Ref.	Ø Punches	Conduit	⚖️	Punches
55VL95R	22,5 - 28,3 - 34 - 49,7 - 61,8mm	1/2" - 3/4" - 1" - 1 1/2" - 2"	5,2	55VAL050 - 55VAL075 55VAL100 - 55VAL150 55VAL200
55VL96R	22,5 - 28,3 - 34 - 43,3 - 49,7 - 61,8mm	1/2" - 3/4" - 1" - 1 1/4" - 1 1/2" - 2"	5,8	55VAL050 - 55VAL075 55VAL100 - 55VAL125 55VAL150 - 55VAL200

CONDUIT PIPE PUNCH MEASURE WITHOUT BEARING 54VAL0



Mechanical metal sheet punches with anti-scratch washer for the American market.

Standard punches can cut up to 2 mm in steel sheets and 1.5 mm in stainless steel sheets.



*This is a general recommendation, there is a wide variety of steels and stainless steels. It is advisable to oil the sheet metal before cutting (e.g. use protoolube). In case of doubt, it is recommended to use series 56.

Ref.	Ø	Inch	Screw	Conduit Pipe Diameter	Conduit Pipe Inches	⚖️	Spare part
							Screw and washer
54VAL050	22,5	7/8"	M10	12,7	1/2"	0,2	54V110
54VAL075	28	1 3/32"	M12	19	3/4"	0,3	54V112
54VAL100	35	1 11/32"	M12	25,4	1"	0,4	54V112
54VAL125	43	1 11/16"	M14	32	1 1/4"	0,7	54V114
54VAL150	50	1 15/16"	M14	38	1 1/2"	0,9	54V114
54VAL200	62	2 7/16"	M20	51	2"	1,6	54V120
54VAL250	76	2 15/16"	M20	63,5	2 1/2"	2,4	54V120
54VAL300	91	3 9/16"	M20	76,2	3"	3,3	54V120
54VAL350	102	4 1/16"	M20	89	3 1/2"	3,8	54V120
54VAL400	116	4 9/16"	M20	101,6	4"	4,6	54V120

CONDUIT PIPE PUNCH WITH BEARING 55VAL0



Mechanical sheet punches with non-ground bearing for the American market. Standard punches can cut up to 2 mm in steel sheets and 1.5 mm in stainless steel sheets.



*This is a general recommendation, there is a wide variety of steels and stainless steels. It is advisable to oil the sheet metal well before cutting (e.g. use protoolube). In case of doubt, it is recommended to use series 56.

Bullet points

- The screws of the 55 series drills are of very high strength 140Kg/mm2.
- The series 55 includes a bearing which increases the performance of the drill by 200%, therefore, half of the strength is required when cutting.

Ref.	Ø	Inch	Screw	Conduit Pipe Diameter	Conduit Pipe Inches	⚖️	Spare part
							Screw with bearing
55VAL050	22,5	7/8"	M10	12,7	1/2"	0,2	540110R
55VAL075	28,3	1 3/32"	M12	19	3/4"	0,4	540112R
55VAL100	34	1 11/32"	M12	25,4	1"	0,5	540112R
55VAL125	43	1 11/16"	M14	32	1 1/4"	0,9	540114R
55VAL150	50	1 15/16"	M14	38	1 1/2"	1,0	540114R
55VAL200	62	2 7/16"	M20	51	2"	1,9	540120R
55VAL250	76	2 15/16"	M20	63,5	2 1/2"	2,8	540120R
55VAL300	91	3 9/16"	M20	76,2	3"	3,5	540120R
55VAL350	102	4 1/16"	M20	89	3 1/2"	4,2	540120R
55VAL400	116	4 9/16"	M20	101,6	4"	4,9	540120R



HYDRAULIC PART

5400CH0



Hydraulic set.

Pump with hose and cylinder either 8Tm or 14Tm, depending on requirements.

Includes all the necessary adapters and has the capacity to store up to 10 punches of your choice (not included in the price).

For sheet thickness ≤ 1 mm, regardless of the diameter of the punch, use 5400CH.

For metal sheet thicknesses > 1 mm:

For diameters less than 75 mm, use 5400CH.

For diameters > 75 mm upwards use 5414CH.

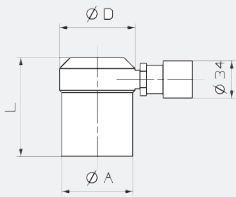


Bullet points

- Hydraulic system increases working speed.
- Longer blade life.

Ref.	TON		Spare parts				
			Cylinder	Pump	Washer	Screw	Adaptor
5400CH	8	6,5	009541	009542	009054 009056	009053 009058 009059	009055 009057
5414CH	14	7,6	009544	009542	009054 009056	009053 009058 009059	009055 009057

Technical information of the hydraulic part



Cylinder

Ref.	ØA	ØD	L	Stroke	Tm		Included in...
009541	65	69	90	15	8	2,1	5400CH
009544	80	86	90	15	14	3,1	5414CH

Pump

It's a one speed pump. Maximum pressure 700 bar.

Oil capacity 328 cm³.

The Oil cover has two purposes, ventilation and filling.

It works as pressure relief valve in the case of an accidental pressurization of the tank.

009542 single model includes a 900 mm long hose.



Ref.	Tm		Included in...
009542	8-14	3,7	5400CH 5414CH

WASHER

Washers for hydraulic punches.



Ref.	Ø	Ø
009054	M8	8
009056	M12	12
54004	M20	20

SCREW

Screws for hydraulic punches.



Ref.	Métrica	Metrics
009053	M8	M8
009058	M12	M12
009059	M20	M20

ADAPTOR

Adapters for hydraulic punches.



Ref.	Métrica	Metrics
009055	M8	M8
009057	M12	M12

CIRCULAR HYDRAULIC KNOCK OUT PUNCH SERIE 54H

54H



These punches consist of two parts: the punch with punch and die and the hydraulic part including cylinder, pump, hose and all necessary screws and adapters .

The standard perforators can cut up to 2 mm in steel sheets and 1.5 mm in stainless steel sheets.



Bullet points

- Hydraulic system increases working speed.
- Longer blade life.

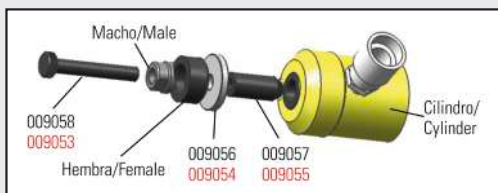


WATCH VIDEO
HYDRAULIC
PUNCHES



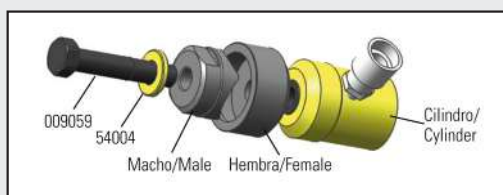
With screw M8 - M12

M8: Punches Ø 13 a 17
M12: Punches Ø 18 a 39



With screw M20

M20: Punches Ø > 39



Ref.	Ø	PG	Screw ø	⚖	Spare parts		
					Washer	Screw	Adaptor
54/13H	13	-	8	0,1	009054	009053	009055
54/14H	14	-	8	0,1	009054	009053	009055
54/15H	15	9	8	0,1	009054	009053	009055
54/16H	16	-	8	0,1	009054	009053	009055
54/17H	17	-	8	0,1	009054	009053	009055
54/18H	18	11	12	0,1	009056	009058	009057
54/19H	19	-	12	0,1	009056	009058	009057
54/20H	20	13	12	0,1	009056	009058	009057
54/21H	21	-	12	0,1	009056	009058	009057
54/22H	22	16	12	0,1	009056	009058	009057
54/23H	23	-	12	0,1	009056	009058	009057
54/24H	24	-	12	0,1	009056	009058	009057
54/25H	25	-	12	0,2	009056	009058	009057
54/26H	26	-	12	0,2	009056	009058	009057
54/27H	27	-	12	0,2	009056	009058	009057
54/28H	28	21	12	0,2	009056	009058	009057
54/29H	29	-	12	0,2	009056	009058	009057
54/30H	30	-	12	0,2	009056	009058	009057
54/31H	31	-	12	0,2	009056	009058	009057
54/32H	32	-	12	0,2	009056	009058	009057
54/33H	33	-	12	0,2	009056	009058	009057
54/34H	34	-	12	0,3	009056	009058	009057
54/35H	35	-	12	0,4	009056	009058	009057
54/36H	36	-	12	0,4	009056	009058	009057
54/37H	37	29	12	0,4	009056	009058	009057
54/38H	38	-	12	0,3	009056	009058	009057
54/39H	39	-	12	0,4	009056	009058	009057
54/40H	40	-	20	0,4	54004	009059	-
54/41H	41	-	20	0,5	54004	009059	-
54/42H	42	-	20	0,5	54004	009059	-
54/43H	43	-	20	0,5	54004	009059	-
54/44H	44	-	20	0,5	54004	009059	-
54/45H	45	-	20	0,6	54004	009059	-
54/46H	46	-	20	0,6	54004	009059	-
54/47H	47	36	20	0,6	54004	009059	-
54/48H	48	-	20	0,6	54004	009059	-
54/49H	49	-	20	0,7	54004	009059	-
54/50H	50	-	20	0,7	54004	009059	-
54/51H	51	-	20	0,8	54004	009059	-
54/52H	52	-	20	0,8	54004	009059	-
54/55H	55	42	20	1,2	54004	009059	-
54/60H	60	48	20	1,3	54004	009059	-
54/62H	62	-	20	1,3	54004	009059	-
54/63H	63	-	20	1,3	54004	009059	-
54/65H	65	-	20	1,8	54004	009059	-
54/70H	70	-	20	1,8	54004	009059	-
54/72H	72	-	20	1,8	54004	009059	-
54/75H	75	-	20	2,2	54004	009059	-
54/80H	80	-	20	2,2	54004	009059	-
54/85H	85	-	20	2,9	54004	009059	-
54/90H	90	-	20	3,0	54004	009059	-
54/95H	95	-	20	3,5	54004	009059	-
54/100H	100	-	20	3,5	54004	009059	-
54/102H	102	-	20	3,6	54004	009059	-
54/105H	105	-	20	3,7	54004	009059	-
54/110H	110	-	20	4,0	54004	009059	-
54/115H	115	-	20	4,3	54004	009059	-



CIRCULAR HYDRAULIC KNOCK OUT PUNCH SERIE 56H INOX

56H



These punches consist of 2 parts: Complete punche with punch and die and hydraulic part including cylinder, pump, hose and all necessary screws and adapters.



Reinforced series for cutting up to 3 mm in steel sheets and 2 mm in stainless steel sheets.

Bullet points

- Hydraulic system increases working speed.
- Longer blade life.



Ref.	PG	Screw ϕ	ϕ	Sapre parts			
				PG	Washer	Screw	Adaptor
56/16H	-	8	16	-	009054	009053	009055
56/18H	11	12	18	11	009056	009058	009057
56/21H	-	12	21	-	009056	009058	009057
56/22H	13	12	22	16	009056	009058	009057
56/25H	-	12	25	-	009056	009058	009057
56/28H	21	12	28	21	009056	009058	009057
56/30H	-	12	30	-	009056	009058	009057
56/32H	-	12	32	-	009056	009058	009057
56/35H	-	12	35	-	009056	009058	009057
56/37H	29	12	37	29	009056	009058	009057
56/40H	-	20	40	-	54004	009059	-
56/45H	-	20	45	-	54004	009059	-
56/47H	36	20	47	36	54004	009059	-
56/50H	-	20	50	-	54004	009059	-
56/55H	42	20	55	42	54004	009059	-
56/60H	48	20	60	48	54004	009059	-
56/63H	-	20	63	-	54004	009059	-

SQUARE KNOCK OUT PUNCH

54C



54C20 / 54C22 / 54C25

Mechanical square hole punch for metal sheet cutting. They can cut up to 2 mm in steel sheets and 1,5* mm in stainless steel sheets.




*This is a general recommendation, there is a great variety of steels and stainless steels. It is advisable to oil the metal sheet before cutting (e.g. use protoolube).



54C30 / 54C35



54C46 / 54C67 / 54C92

Ref.	Square	Screw	Type	
54C20	20x20	M12	With washer	0,4
54C22	22x22	M12	With washer	0,4
54C25	25x25	M12	With washer	0,4
54C30	30x30	M17	With washer	0,9
54C35	35x35	M17	With washer	1,3
54C46	46x46	M-20	With bearing	2,2
54C67	67x67	M-20	With bearing	3,3
54C92	92x92	M-20	With bearing	5,5

RECTANGULAR KNOCK OUT PUNCH


54R



Rectangular mechanical punch for sheet metal cutting. Square punches can cut up to 2 mm in steel sheets and 1.5* mm in stainless steel sheets.



*This is a general recommendation, there is a great variety of steels and stainless steels. It is advisable to oil the sheet metal before cutting (e.g. use protoolube).

Ref.	Rectangle	Screw	Type	
54R2517	25x17	M-8	With washer	0,4
54R3022	30x22	M-10	With washer	0,5
54R4070	40x70	M-20	With bearing	2,8
54RE2870	28x70	M-20	With bearing	2,0
54RE3252	32x52	M-20	With washer	1,5
54RE4290	42x90	M-20	With bearing	3,1
54RE5280	52x80	M-20	With bearing	2,8
54R35113	35x113	M-20	With bearing	0,0

SQUARE HYDRAULIC KNOCK OUT PUNCH

54CH



Hydraulic square hole punch for sheet metal cutting. Square punches can cut up to 2 mm in steel sheets and 1.5 mm in stainless steel sheets.




These punches consist of two parts, the complete punches with the specific spindle for the hydraulic equipment and the hydraulic power pack including cylinder, pump and hose.

Bullet points

- Hydraulic mechanism increases working speed.
- Longer blade life.



Ref.	Square	Screw	
54C46H	46x46	M20x2,5	1,9
54C67HN	67x67	M20x2,5	2,8
54C92H	92x92	M20x2,5	5,1

*Improved screw design

RECTANGULAR HYDRAULIC KNOCK OUT PUNCH

54RH



Hydraulic rectangular punch for sheet metal cutting. Square punches can cut up to 2 mm in steel sheets and 1.5 mm in stainless steel punches.




These punches are composed of two parts, the complete punches with the specific spindle for the hydraulic equipment and the hydraulic power pack including cylinder, pump and hose.

Bullet points

- Hydraulic mechanism increases working speed.
- Longer blade life.



Ref.	Rectangle	Screw	
54RE2870H	28x70	M20x2,5	1,9
54R4070H	40x70	M20x2,5	2,4
54RE4290H	42x90	M20x2,5	2,6
54R5280H	52x90	M20x2,5	2,6
54RE3252H	32x52	M20x2,5	1,4
54R35113H	35x113	M20x2,5	0,0

MECHANICAL KNOCK OUT PUNCHES SET

54J



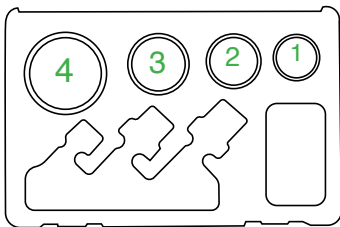
Set of 4 mechanical punches series 54 with anti-scratch washer
Standard punches can cut up to 2 mm in steel sheets and 1.5 mm in stainless steel sheets.

*This is a general recommendation, there is a wide variety of steels and stainless steels. It is advisable to oil the sheet metal before cutting (e.g. use protoolube). In case of doubt, it is recommended to use the 56 series.




Bullet points

- The screws of the 54 series punches are of very high strength 140Kg/mm2.
- Better performance and longer life due to ground cutting edge.



Capacity 4 knock out punches plastic box.

Possibility of customized sets.

Ref.	Included measures		Punches
54J41	18-20-22-37	1,0	54/18 - 54/20 - 54/22 - 54/37
54J42	16-20-25-32	1,0	54/16 - 54/20 - 54/25 - 54/35
54J43	18-22-25-32	0,9	54/18 - 54/22 - 54/25 - 54/32
54J44	16-20-25-32	0,9	54/16 - 54/20 - 54/25 - 54/32
54J45	14-18-20-32	0,8	54/14 - 54/18 - 54/20 - 54/32
54J46	15-20-22-28	0,8	54/15 - 54/20 - 54/22 - 54/28
54J48	16-19-25-32	1,0	54/16 - 54/19 - 54/25 - 54/32
54J49	12.7-19-25-32	1,0	54/13 - 54/19 - 54/25 - 54/32

Ref.	1	2	3	4
Ø punches	54/13 to 54/19	54/17 to 54/22	54/20 to 54/27	54/28 to 54/39

MECHANICAL KNOCK OUT PUNCHES SET 55

54JR



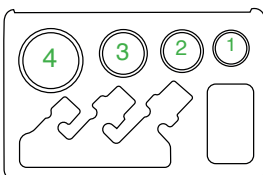
Set of 4 mechanical punches series 55 with bearing.
Standard punches can cut up to 2 mm in steel sheets and 1.5 mm in stainless steel sheets.

*This is a general recommendation, there is a great variety of steels and stainless steels. It is advisable to oil the sheet metal before cutting (e.g. use protoolube). In case of doubt, it is recommended to use the 56 series.



Bullet points


- The screws of the 56 series punches are of very high strength 140Kg/mm2.
- They include a bearing which increases the performance of the drill by 200%, therefore, half the force is required.
- Better performance and longer life due to ground cutting edge.



Capacity 4 knock out punches plastic box.

Same options as 54J.

Possibility of customized sets

Ref.	Included measures		Punches
54JR41	18-20-22-37	1,1	55/18 - 55/20 - 55/22 - 55/37
54JR42	16-20-25-35	1,1	55/16 - 55/20 - 55/25 - 55/35
54JR43	16-22-25-32	1,0	55/16 - 55/22 - 55/25 - 55/32
54JR44	16-20-25-32	1,0	55/16 - 55/20 - 55/25 - 55/32

CIRCULAR KNOCK OUT PUNCHES SET 54A0



54 series mechanical punches sets with anti-scratch washer. Standard punches can cut up to 2 mm in steel sheets and 1.5 mm in stainless sheets.



*This is a general recommendation, there is a wide variety of steels and stainless It is advisable to oil the sheet metal well before cutting (e.g. use protoolube). In case of doubt, it is recommended to use the 56 series.

Bullet points

- The screws of the 54 series punches are of very high strength 140Kg/mm2.
- Better performance and longer life due to ground cutting edge.

Ref.	Included measures	Oil	⚖️	Punches
54E1	16-20-25-32-40	1 Bottle	2,1	54/16 - 54/20 - 54/25 - 54/32 - 54/40
54E3	16-20-25-32-40-50-63	-	4,2	54/16 - 54/20 - 54/25 - 54/32 - 54/40 - 54/50 - 54/63
54A	15-18-20-22-28-37-47	1 Bottle	2,6	54/15 - 54/18 - 54/20 - 54/22 - 54/28 - 54/37 - 54/47
54F1	16-19-22-29-38-44	1 Bottle	2,5	54/16 - 54/19 - 54/22 - 54/29 - 54/38 - 54/44
54F3	16-19-22-29-38-44-55-60	-	5,1	54/16 - 54/19 - 54/22 - 54/29 - 54/38 - 54/44 - 54/55 - 54/60
54G00	15-18-20-22-28-37-47-55-60	-	5,2	54/15 - 54/18 - 54/20 - 54/22 - 54/28 - 54/37 - 54/47 - 54/55 - 54/60
54M1	16-18-20-22-25-35-40	1 Bottle	2,3	54/16 - 54/18 - 54/20 - 54/22 - 54/25 - 54/35 - 54/40
54M3	16-18-20-22-25-35-40-55-60	-	5,0	54/16 - 54/18 - 54/20 - 54/22 - 54/25 - 54/35 - 54/40 - 54/55 - 54/60

HYDRAULIC KNOCK OUT PUNCH SET 54HJ



Hydraulic punches sets series 54. "Case for rigid pipe standards". Can cut up to 2 mm in steel sheets and 1.5 mm in stainless steel sheets.



Ref.	Included measures	Oil	⚖️	Punches
54AH	18-20-22-28-37-47	1 Bottle	2,2	54/18H - 54/20H - 54/22H - 54/28H 54/37H - 54/47H
54E1H	16-20-25-32-40	1 Bottle	1,8	54/16H - 54/20H - 54/25H 54/32H - 54/40H
54E3H	16-20-25-32-40-50-63		3,4	54/16H - 54/20H - 54/25H - 54/32H 54/40H - 54/50H - 54/63H
54F1H	19-22-29-38-44	1 Bottle	2,1	54/19H - 54/22H - 54/29H 54/38H - 54/44H
54F3H	19-22-29-38-44-55-60		4,3	54/19H - 54/22H - 54/29H - 54/38H 54/44H - 54/55H - 54/60H
54G00H	18-20-22-28-37-47-55-60		4,5	54/18H - 54/20H - 54/22H - 54/28H 54/37H - 54/47H - 54/55H - 54/60H
54M1H	18-20-22-25-35-40	1 Bottle	2,0	54/18H - 54/20H - 54/22H 54/25H - 54/35H - 54/40H
54M3H	18-20-22-25-35-40-55-60		4,2	54/18H - 54/20H - 54/22H - 54/25H 54/35H - 54/40H - 54/60H

KNOCK OUT PUNCHES WITHOUT GRINDING SET


54VK



54VAL series punches sets without grinding with anti-scratch washer. Standard punches can cut up to 2 mm in steel sheets and 1.5 mm in stainless steel sheets.



*This recommendation is general, there is a great variety of steels and stainless steels. It is advisable to oil the sheet metal well before cutting (e.g. use protoolube). In case of doubt, it is recommended to use series 56.

Ref.	Included measures		Punches
54VK43	18-22-25-32	0,9	54VAL18 - 54VAL22 54VAL25 - 54VAL32
54VK46	15-20-22-28	0,8	54VAL15 - 54VAL20 54VAL22 - 54VAL28
54VK48	5/8" - 3/4" - 1" - 1 1/4"	0,8	54VAL16 - 54VAL19 54VAL25 - 54VAL32
54VK49	1/2" - 3/4" - 1" - 1 1/4"	0,9	54VAL13 - 54VAL19 54VAL25 - 54VAL32
54VK52	1/2" - 3/4" - 1" - 1 1/2"	1,1	54VAL13 - 54VAL19 54VAL25 - 54VAL38

METAL KNOCK OUT PUNCHES STORAGE DISPLAY SET

5499A




54 series punches display stand. The content of the display can be customized adapting it to the customer's needs



Bullet points

- The screws of the 54 series punches are of very high strength 140Kg/mm2.
- Better performance and longer life due to ground cutting edge.

Ref.	
5499A	33,0

CIRCULAR KNOCK OUT PUNCHES EXHIBITOR

PX54



54 series punches display with anti-scratch washer.

Bullet points

- The screws of the 54 series punches are of very high strength 140Kg/mm2.
- Better performance and longer life due to ground cutting edge.



Included a 54/17 punch as a gift image.

Ref.	Included measures	
PX54	20-22-25-28-30-32-35 (2 units of each measure)	7,0

HOLLOW PUNCHES SET FROM 2 TO 20MM

86320M



Tools designed for punching holes in the following materials: plastic, leather, rubber, fibre, fabric, special paper for gasketing, cardboard, lead, thin aluminium foil...

Stepped handle for double punch.



Composition:

Ø 3-4-6-8-10 mm.

Ø 12-14-16-18-20 mm.

Interchangeable punches.

Bullet points

- Allows two cutters to be mounted at the same time for the production of washers and special seals.



Ref.	Holes from	Holes to		Spare part
				Handle
86320M	3mm	20mm	0,6	86320MAN

HOLLOW PUNCHES SET FROM 3 TO 30MM

86330M



Tools designed for punching holes in the following materials: plastic, leather, rubber, fibre, fabric, special gasket paper, cardboard, lead, thin aluminium foil...

Stepped handle for double hole punch



Composition:

Ø 3-4-6-8-10 mm

Ø 12-14-16-18-20 mm.

Ø 22-24-26-28-30 mm.


Double punch.

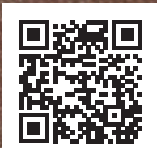
Impact head treated according to international standards.

Bullet points

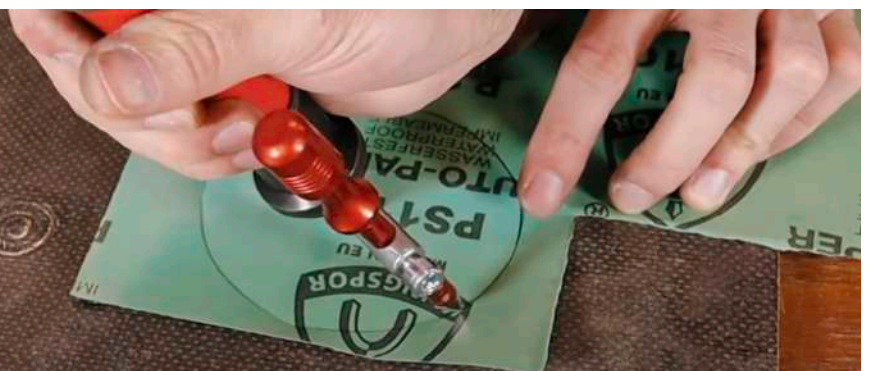
- Allows two cutters to be mounted at the same time for the production of washers and special seals.
- With anti-rebound handle.



Ref.	Holes from	Holes to		Spare part
				Handle
86330M	3mm	30mm	1,1	86330MAN



WATCH
VIDEO



HOLLOW PUNCHES SET FROM 2 TO 30MM + COMPASS 330MM

86330MC



Tools designed for punching holes in the following materials: plastic, leather, rubber, fibre, fabric, special jointing paper, cardboard, lead, thin aluminium foil...

Stepped handle for double punch.

Composition:

Ø 3-4-6-8-10 mm

Ø 12-14-16-18-20 mm

Ø 22-24-26-28-30 mm

Retractable centring tip.

Adjustable compass up to 330 mm with blade.

Impact head treated to international standards.

Bullet points

- Allows two cutters to be mounted at the same time for the production of washers and special seals.
- With anti-rebound handle.



Ref.	Holes from	Holes to		Spare part
				Handle
86330MC	3mm	330mm	1,3	86330MAN

HOLLOW PUNCHES FROM 2 TO 50MM + RETRACTABLE CENTERING TIP

86250M



Tools designed for punching holes in the following materials: plastic, leather, rubber, fibre, fabric, special gasket paper, cardboard, lead, thin aluminium foil...

Stepped handle for double hole punch.

Composition:

Ø 2-3-4-5-6-7-8-9-10 mm

Ø 12-14-16-18-20 mm

Ø 22-24-26-28-30 mm

Ø 32-34-36-38-40 mm

Ø 42-44-46-48-48-50 mm

Retractable centring tip.

Impact head treated according to international standards.

Bullet points

- Allows two cutters to be mounted at the same time for the production of washers and special seals.
- With anti-rebound handle.



Ref.	Holes from	Holes to		Spare part
				Handle
86250M	2mm	50mm	2,6	86250MAN

ADAPTADER FOR HANDLE 8625MAN

86250MAP




Spare adapter for hollow punch set Ref. 86250M.

Ref.	Hollow punches	
86250MAP	From 12 to 50mm	0,1

HOLLOW PUNCH HANDLE 86250M

Replacement handle for punch Ref. 86250M.




Ref.	Diameters	
86250MAN	2 to 50	0,5

HOLLOW PUNCH HANDLE 86320M

Replacement handle for punch Ref. 86250M




Ref.	Diameters	
86320MAN	3 to 20	0,6

HOLLOW PUNCH HANDLE 86330M


Replacement handle for punch Ref. 86330M and Ref. 86330MC.



Ref.	Diameters	
86330MAN	3 to 30	0,6

INTERCHANGE HOLLOW PUNCHES



Ref.	Ø	
86006	6	0,1
86008	8	0,1
86010	10	0,1
86012	12	0,1
86014	14	0,1
86016	16	0,1
86018	18	0,1
86020	20	0,1
86022	22	0,1
86024	24	0,1
86026	26	0,1
86028	28	0,1
86030	30	0,1
86032	32	0,1
86034	34	0,1
86036	36	0,1
86038	38	0,1
86040	40	0,1
86042	42	0,1
86044	44	0,1
86046	46	0,1
86048	48	0,1
86050	50	0,1
86052	52	0,1
86054	54	0,1

LENOX

Official distributors of the LENOX brand, of North American origin. Quality and performance in their tools, which make your work easier.

LENOX TOOLS



Bi-metal hole saws 166-167



Carbide tipped hole saws 168-169



Diamond hole saws 70



Hole saws kits 29



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EXHIBITORS



Big exhibitor 44











Small exhibitor 45



BI-METAL HOLE SAWS CUTS SELECTION GUIDE

IMPROVED METAL CUTTING PERFORMANCE
Optimized tooth design penetrates metal with ease.

FAST, EFFICIENT CUTTING IN WOOD
Larger, sharper teeth remove more wood for fast cutting.

WOOD	NAILED EMBEDDED WOOD	NONFERROUS METAL	PLÁSTIC & COMPOSITES	METAL	STAINLESS STEEL	DRYWALL PLASTER	CEMENT BOARD
							
BI-METAL							

SPEED SLOT staircase design for fast, easy plug ejection.

Advanced tooth design increases cutting life.



10% Thicker Wall adds strength and durability.



If during the cutting process you notice any “wobbling”, reduce the RPM. In metals it is advisable to use Protool LUBE cutting oil or cutting oil, it increases the life of the crowns.

BI-METAL HOLE SAWS

3000



Hole saws designed for drilling wood and metal.
Cutting depth 47mm.



Bullet points

- Staggered side groove design for fast and easy chip ejection.
- Larger and sharper teeth evacuate more chips for faster cutting.
- Side tab allows the insertion of a screwdriver.











Ref.	Ø	Inches	High-speed steel	Variable tooth	Standard arbor	RPM SWEET STEEL	RPM STAINLESS STEEL	RPM IRON	RPM BRASS	RPM ALUM	⚖
30009	14	9/16"	M-42	4/6	1L ,4L, 5L	580	300	400	790	900	0,1
30010	16	5/8"	M-42	4/6	1L ,4L, 5L	550	275	365	730	825	0,1
30011	17	11/16"	M-42	4/6	1L ,4L, 5L	500	250	330	665	750	0,1
30012	19	3/4"	M-42	4/6	1L ,4L, 5L	460	230	300	600	690	0,1
30098	20	-	M-42	4/6	1L ,4L, 5L	425	210	280	560	630	0,1
30013	21	13/16"	M-42	4/6	1L ,4L, 5L	425	210	280	560	630	0,1
30014	22	7/8"	M-42	4/6	1L ,4L, 5L	390	195	260	520	585	0,1
30015	24	15/16"	M-42	4/6	1L ,4L, 5L	370	185	245	495	555	0,1
30016	25	1"	M-42	4/6	1L ,4L, 5L	350	175	235	470	525	0,1
30017	27	1 - 1/16"	M-42	4/6	1L ,4L, 5L	325	160	215	435	480	0,1
30018	29	1 - 1/8"	M-42	4/6	1L ,4L, 5L	300	150	200	400	450	0,1
30019	30	1 - 3/16"	M-42	4/6	1L ,4L, 5L	285	145	190	380	425	0,1
30020	32	1 - 1/4"	M-42	4/6	2L, 3L, 6L	275	140	180	360	410	0,1
30021	33	1 - 5/16"	M-42	4/6	2L, 3L, 6L	260	135	175	345	390	0,1
30022	35	1 - 3/8"	M-42	4/6	2L, 3L, 6L	250	125	165	330	375	0,1
30023	37	1 - 7/16"	M-42	4/6	2L, 3L, 6L	240	120	160	315	360	0,1
30024	38	1 - 1/2"	M-42	4/6	2L, 3L, 6L, 7L	230	115	150	300	345	0,1
30025	40	1 - 9/16"	M-42	4/6	2L, 3L, 6L, 7L	220	110	145	290	330	0,1
30026	41	1 - 5/8"	M-42	4/6	2L, 3L, 6L, 7L	210	105	140	280	315	0,1
30027	43	1 - 11/16"	M-42	4/6	2L, 3L, 6L, 7L	205	100	135	270	305	0,1
30028	44	1 - 3/4"	M-42	4/6	2L, 3L, 6L, 7L	195	95	130	250	295	0,1
30029	46	1 - 13/16"	M-42	4/6	2L, 3L, 6L, 7L	190	95	125	250	285	0,1
30030	48	1 - 7/8"	M-42	4/6	2L, 3L, 6L, 7L	180	90	120	240	270	0,1
30032	51	2"	M-42	4/6	2L, 3L, 6L, 7L	170	85	115	230	255	0,1
30033	52	2 - 1/16"	M-42	4/6	2L, 3L, 6L, 7L	165	80	110	220	245	0,1
30034	54	2 - 1/8"	M-42	4/6	2L, 3L, 6L, 7L	160	80	105	210	240	0,2
1816241	56	-	M-42	4/6	2L, 3L, 6L, 7L	285	145	190	190	425	0,2
30036	57	2 - 1/4"	M-42	4/6	2L, 3L, 6L, 7L	285	145	190	380	425	0,2
30038	60	2 - 3/8"	M-42	4/6	2L, 3L, 6L, 7L	150	75	100	200	225	0,2
1816242	62	-	M-42	4/6	2L, 3L, 6L, 7L	140	70	95	190	220	0,2
30040	64	2 - 1/2"	M-42	4/6	2L, 3L, 6L, 7L	135	65	90	180	205	0,2
30041	65	2 - 9/16"	M-42	4/6	2L, 3L, 6L, 7L	135	65	90	180	205	0,2
30042	67	2 - 5/8"	M-42	4/6	2L, 3L, 6L, 7L	130	65	85	175	200	0,2
30043	68	2 - 11/16"	M-42	4/6	2L, 3L, 6L, 7L	130	65	85	170	195	0,2
30044	70	2 - 3/4"	M-42	4/6	2L, 3L, 6L, 7L	125	60	80	160	185	0,2
30046	73	2 - 7/8"	M-42	4/6	2L, 3L, 6L, 7L	125	60	80	160	185	0,3
30048	76	3	M-42	4/6	2L, 3L, 6L, 7L	120	60	80	160	180	0,3
30050	79	3 1/8	M-42	4/6	2L, 3L, 6L, 7L	115	55	75	150	170	0,3
30052	83	3 - 1/4"	M-42	4/6	2L, 3L, 6L, 7L	110	55	70	140	165	0,3
30054	86	3 - 3/8"	M-42	4/6	2L, 3L, 6L, 7L	105	50	70	140	155	0,3
30056	89	3 - 1/2"	M-42	4/6	2L, 3L, 6L, 7L	100	50	65	130	150	0,4
30058	92	3 - 5/8"	M-42	4/6	2L, 3L, 6L, 7L	95	45	65	130	145	0,4
30060	95	3 - 3/4"	M-42	4/6	2L, 3L, 6L, 7L	95	45	60	120	140	0,4
30062	98	3 - 7/8"	M-42	4/6	2L, 3L, 6L, 7L	90	45	60	120	135	0,4
30064	102	4	M-42	4/6	2L, 3L, 6L, 7L	85	40	55	110	130	0,4
30066	105	4 - 1/8"	M-42	4/6	2L, 3L, 6L, 7L	85	40	55	110	130	0,5
30068	108	4 - 1/4"	M-42	4/6	2L, 3L, 6L, 7L	80	40	55	110	120	0,5
30070	111	4 - 3/8"	M-42	4/6	2L, 3L, 6L, 7L	80	40	55	110	120	0,5
30072	114	4 - 1/2"	M-42	4/6	2L, 3L, 6L, 7L	75	35	50	100	105	0,5
30074	118	4 - 5/8"	M-42	4/6	2L, 3L, 6L, 7L	75	35	50	100	105	0,6
30076	121	4 - 3/4"	M-42	4/6	2L, 3L, 6L, 7L	75	35	50	100	105	0,6
30080	127	5	M-42	4/6	2L, 3L, 6L, 7L	70	35	45	90	95	0,7
1816243	133	5 - 1/4"	M-42	4/6	2L, 3L, 6L, 7L	70	35	45	90	95	0,7
30088	140	5 - 1/2"	M-42	4/6	2L, 3L, 6L, 7L	105	50	70	140	155	0,8
30096	152	6"	M-42	4/6	2L, 3L, 6L, 7L	65	30	40	85	90	0,9
3106	168	6 - 5/8"	M-42	4/6	2L, 3L, 6L, 7L	65	30	40	85	90	0,9
3112	177	7"	M-42	4/6	2L, 3L, 6L, 7L	65	30	40	85	90	1,3
3132	210	8 1/4"	M-42	4/6	2L, 3L, 6L, 7L	65	30	40	85	90	1,8

CARBIDE TIPPED HOLE SAWS CUTS SELECTION GUIDE

EXTREMELY VERSATILE

Aggressive tooth design drills through wood, steel, stainless, cast iron, fiber cement & plaster

They are supplied in blisters.

WOOD	NAILEMBEDDED WOOD	NONFERROUS METAL	PLÁSTIC & COMPOSITES	METAL	STAINLESS STEEL	DRYWALL PLASTER	TILE
							
CARBURO							

Patented SPEED SLOT® Staircase design has multiple leverage points for easy plug ejection. The tab on the side allows you to insert a screwdriver.



Greater depth of cut. Instead of the conventional 38 mm, almost 50 mm of cutting height.

It is essential to use a pilot drill with a carbide tip.



CARBIDE TIPPED HOLE SAWS

LXAH

DISEÑO MEJORADO



Multi-material carbide tipped hole saws.

High performance carbide plates are welded to the cutting edge for longer durability.


50mm depth of cut.

Applications: concrete blocks, tiles, fibre cement, bricks, non-ferrous materials, stainless steel, cast iron and even wood with nails.



Bullet points

- Staggered side groove design for fast and easy chip ejection.
- Larger and sharper teeth evacuate more swarf for faster cutting.
- Side tab allows insertion of a screwdriver.

Ref.	Ø	Diameter inches	Standard arbor	RPM ALUM	RPM STAINLESS STEEL	RPM FIBERGLASS	RPM CERAMIC	RPM STEEL	
LXAH31116	17	11/16"	1L ,4L, 5L	1800	690	270	550	240	0,1
LXAH334	19	3/4"	1L ,4L, 5L	1700	640	250	500	210	0,1
LXAH378	22	7/8"	1L ,4L, 5L	1500	550	210	430	180	0,1
LXAH31	25	1"	1L ,4L, 5L	1300	480	190	370	150	0,1
LXAH3118	29	1 1/8"	1L ,4L, 5L	1100	420	170	330	140	0,1
LXAH3114	32	1 1/4"	2L, 3L 6L	1000	380	160	300	130	0,1
LXAH3138	35	1 3/8"	2L, 3L 6L	900	350	140	270	110	0,1
LXAH3112	38	1 1/2"	2L, 3L, 6L, 7L	900	320	120	250	100	0,1
LXAH3158	41	1 5/8"	2L, 3L, 6L, 7L	700	290	110	230	90	0,1
LXAH3134	44	1 3/4"	2L, 3L, 6L, 7L	700	270	110	210	90	0,1
LXAH32	51	2"	2L, 3L, 6L, 7L	600	240	90	190	80	0,1
LXAH3218	54	2 1/8"	2L, 3L, 6L, 7L	600	220	90	180	70	0,1
LXAH3214	57	2 1/4"	2L, 3L, 6L, 7L	600	210	80	170	70	0,2
LXAH3238	60	2 3/8"	2L, 3L, 6L, 7L	600	200	80	160	70	0,2
LXAH3212	64	2 1/2"	2L, 3L, 6L, 7L	500	190	70	150	60	0,2
LXAH32916	65	2 9/16"	2L, 3L, 6L, 7L	500	190	70	140	60	0,2
LXAH3258	67	2 5/8"	2L, 3L, 6L, 7L	500	180	70	130	60	0,2
LXAH321116	68	2 11/16"	2L, 3L, 6L, 7L	500	180	60	120	60	0,2
LXAH3	76	3"	2L, 3L, 6L, 7L	400	160	60	120	50	0,3
LXAH3314	83	3 1/4"	2L, 3L, 6L, 7L	400	150	60	110	50	0,3
LXAH3338	86	3 3/8"	2L, 3L, 6L, 7L	400	140	60	110	50	0,3
LXAH3312	89	3 1/2"	2L, 3L, 6L, 7L	400	140	50	110	50	0,3
LXAH3358	92	3 5/8"	2L, 3L, 6L, 7L	400	130	50	100	40	0,4
LXAH3334	95	3 3/4"	2L, 3L, 6L, 7L	300	130	50	110	40	0,4
LXAH34	102	4"	2L, 3L, 6L, 7L	300	120	50	100	40	0,4
LXAH3418	105	4 1/8"	2L, 3L, 6L, 7L	300	120	50	90	40	0,5
LXAH3414	108	4 1/4"	2L, 3L, 6L, 7L	300	110	50	90	40	0,5
LXAH3412	114	4 1/2"	2L, 3L, 6L, 7L	300	110	40	80	30	0,5
LXAH3434	121	4 3/4"	2L, 3L, 6L, 7L	300	100	40	80	30	0,6
LXAH35	127	5"	2L, 3L, 6L, 7L	200	100	40	80	30	0,7
LXAH3512	140	5 1/2"	2L, 3L, 6L, 7L	200	100	40	70	30	0,8



Indispensable to use pilot nozzle with carbide tip. The box is marked: CARBIDE TIPPED.

DIAMOND HOLE SAWS

1050

**MORE HOLES
LESS TIME**

Hole saws with brazed diamond cutting edge.
It drills in less time than any other type of cutters.
Applications: tiles, granite, porcelain, cast iron and in general, materials with high MOHS hardness.
It is very important to check the instruction manual before use.



Bullet points

- The side holes facilitate the removal of scraps and shavings.














Use the standard spindle,
SNAP-BACK for optimum
results.

Ref.	ø	Standard arbor	RPM min	RPM Max	⚖️
10507826	25	1L, 4L, 5L	800	1200	0,1
10507827	29	1L, 4L, 5L	500	900	0,1
10507828	32	2L, 3L, 6L, 7L	500	900	0,1
10507829	35	2L, 3L, 6L, 7L	500	900	0,1
10507830	38	2L, 3L, 6L, 7L	500	900	0,2
10507831	44	2L, 3L, 6L, 7L	500	900	0,1
10507833	51	2L, 3L, 6L, 7L	400	800	0,2
10507834	54	2L, 3L, 6L, 7L	400	800	0,2
10507835	57	2L, 3L, 6L, 7L	400	800	0,2
10507836	60	2L, 3L, 6L, 7L	200	600	0,2
10507837	64	2L, 3L, 6L, 7L	200	600	0,2
10507838	68	2L, 3L, 6L, 7L	200	600	0,2
10507839	76	2L, 3L, 6L, 7L	200	600	0,3
10507840	83	2L, 3L, 6L, 7L	150	500	0,3
10507841	102	2L, 3L, 6L, 7L	150	500	0,4
10507842	114	2L, 3L, 6L, 7L	150	500	0,5

DIAMOND HOLE SAWS CUTS SELECTION GUIDE

LONG DURATION
Durable Robust design for greater durability in tough applications.

FAT, EASY CUTTING
Low torque, little pressure required.

WOOD	NAILEMBEDDED WOOD	NONFRERROUS METAL	PLASTIC	METAL	STAINLESS STEEL	DRYWALL PLASTER	CEMENT	BRICK	TILE	PORCELAIN
										
DIENTES CARBURO							DIAMOND™			
BI-METAL							BI-METAL		CARBIDE TEETH	

Easier plug removal.
Over-sized slot in hole saw for
easy plug removal



Long Lasting.
Continuous, brazed edge
lasts longer in tile and stone

HOLE SAW KIT

17684360

The best container for the best content




Convenient storage for professional use. All sets include arbor with pilot drills and a few spare bits.



Bullet points

- Durability: durable and resistant construction against damage caused by falls.

Ref.	Hole saw mm	Arbor	Pilot bit	
1768436	19-22-29-32-44-68	2L, 5L	-	1,6
1768556	16-19-22-25-29-32-35-38-44-51-68-76	1L, 2L	2 X 4321, 1 X 56PD	2,6
1768559	19-22-25-29-35-38-44-51-57-68-76-83-92-95-105-121	1L, 2L	2 X 4321, 1 X 56PD	4,7
1768668	16-20-25-32-41-51-64	1L, 2L	-	1,7

HOLE SAW ARBORS


300010

Standard spindles for hole saws.

Bullet points

- Extra durability: hardened carbon steel for extra strength.
- Self-acting: self-centering pilot bit for higher cutting incidence and less oscillation.



Ref.	For hole saws	Hexagon	Stem type	
30001	from 9L to 19L	13	No regulation	0,1
30002	from 20L to 132L	13	With regulation	0,2
30003	from 20L to 132L	13	Solid	0,2
30004	from 9L to 19L	6	No regulation	0,1
30005	from 9L to 19L	10	No regulation	0,1
30006	from 20L to 132L	10	With regulation	0,2

HOLE SAW ARBORS & ACCESSORIES


30007

Spindle with scrap ejector for hole saws.

Bullet points

- Extra durability: hardened carbon steel for extra strength.
- Self-acting: self-centering pilot bit for higher cutting incidence and less oscillation.



Ref.	For hole saws	Hexagon	Stem type	
30007	from 20L to 132L	10	With regulation	0,4

QUICK CHANGE ARBORS


1768810

Quick-change spindles for hole saws.

Bullet points

- Extraction and clamping by means of non-threaded pins.
- Prevents the core bit from locking in the spindle.



Ref.	For hole saws	Hexagon	
1768811	from 20L to 132L	16	0,3
1768812	from 9L to 19L	13	0,2
1768813	from 20L to 132L	6L	0,2

EXTENSION FOR ARBORS


30800

Extensions for drilling far away.
Ideal for use in drill presses.

Bullet points

- Increased durability due to hardened carbon steel.




Ref.	Description	Arbor	
30843	Extension 250mm	1L-2L-3L	0,3
30847	Extension 300mm	1L-2L-3L	0,4
30848	Extension 450mm	1L-2L-3L	0,5

PILOTS BITS

308

Replacement drill bits for arbor with pilot.
All drill bits are 6.4mm (1/4") diameter.



Ref.	Material	Snap back	Solid hex	
LXAH9314CTPB	HARD METAL	2L, 5L, 6L	1L, 2L, 3L, 4L, 5L, 6L, 7L	0,1
LXAH9414CTPB	HARD METAL	2L, 5L, 6L	1L, 2L, 3L, 4L, 5L, 6L, 7L	0,1
LXAH99314PB	HSS	2L, 5L, 6L	1L, 2L, 3L, 4L, 5L, 6L, 7L	0,1
30297	HARD METAL	2L, 5L, 6L	1L, 4L	0,1

METALMAX CUT-OFF WHEELS 2030860




New alternative to abrasive cutting discs. Advanced diamond technology offers long life to optimise efficiency and reduce costs while cutting materials.



Bullet points

- The metal core prevents the disc's breaking while working.
- No dust is released when working. Perfect for clean environments.
- No loss of diameter when working

Ref.	Ø	Thickness (mm)	Hole diameter	RPM Max	
2030863	75	1,3	9,52	20300	0,1
2030864	105	1,3	15,88	15300	0,1
2030865	115	1,3	22,23	13300	0,1
2030866	125	1,3	22,23	12250	0,1
2030867	150	1,3	22,23	10200	0,2
2030868	178	1,5	22,23	8500	0,3
2030869	200	1,5	22,23	7650	0,3
2030870	230	2,1	22,23	6650	0,6
2030941	300	3,3	25,4	5200	1,5
2030942	357	3,3	25,4	4400	1,5
2030943	300	3,8	25,4	6400	1,5
2030944	357	3,8	25,4	5500	2,0

METALMAX CUT-OFF AND POLISHING WHEELS 20444680




It has an additional layer of diamond welded on the top and bottom of the edge that allows not only cutting, but also polishing and deburring.



Bullet points

- The metal core prevents the disc from breaking while working.
- No dust is released when working. Perfect for clean environments.
- No loss of diameter when working.



Ref.	Ø	Thickness (mm)	Hole diameter	RPM Max	
2044468	115	2	22.23	13300	0,1
2044469	125	2	22.23	12250	0,1

METALMAX CUT-OFF WHEELS EXHIBITOR DEX




Metalmax cutting disc display. Advanced diamond technology offers long life to help you optimise efficiency and reduce costs when cutting materials.



Bullet points

- The metal core prevents the disc from breaking while working.
- No dust is released when working. Perfect for clean environments.
- No loss of diameter when working.

Ref.	Contains	Contains	Contains	
96102	10 disks of 115 (2030865)	10 disks of 125 (2030866)	5 disks of 230 (2030870)	0,6

GOLD RECIPROCATING SAW BLADES FOR WOOD

210MA


Curved saw blade for wood.
Curved design for superior performance in all applications.



Bullet points

- T2TM technology and titanium coating increase the life of the blades.
- Titanium coating also increases cutting speed.



Ref.	Length x Width	Thickness (mm)	Teeth per inch	Blister units	
21060656GR	150x19	1,3	6	5	0,1
21061156GR	300x19	1,3	6	5	0,3
21062956GR	225x19	1,3	6	5	0,2

GOLD RECIPROCATING SAW BLADES FOR METAL

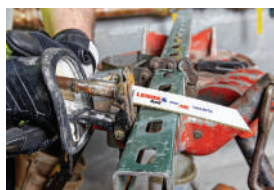
210


Curved saw blade for metals.
Curved design for a superior performance in all applications.



Bullet points

- T2TM technology and titanium coating increase the life of the blades.
- Titanium coating also increases cutting speed.



Ref.	Length x Width	Thickness (mm)	Teeth per inch	Blister units	
21064610GR	150x19	0,9	10	5	0,1
21065810GR	200x19	1,3	10	5	0,2
21066414GR	100x19	0,9	14	5	0,1
21067614GR	150x19	0,9	14	5	0,1
21068418GR	100x19	0,9	18	5	0,1
21069618GR	150x19	0,9	18	5	0,1
21070818GR	200x19	0,9	18	5	0,2
21071424GR	100x19	0,9	24	5	0,1
21072624GR	150x19	0,9	24	5	0,1
21073824GR	200x19	0,9	24	5	0,1

GOLD RECIPROCATING SAW BLADES FOR DEMOLITION

210DE


Curved saw blade for nailing timber, demolition and pallet cutting.
Curved design for superior performance in all applications.



Bullet points

- T2TM technology and titanium coating increase the life of the blades.
- Titanium coating also increases cutting speed.



Ref.	Length x Width	Thickness (mm)	Teeth per inch	Blister units	
210886066GR	150x25	1,6	6	5	0,2
21089960GR	225x25	1,6	10	5	0,2
21090966GR	225x25	1,6	6	5	0,2
21091106GR	300x25	1,6	6	5	0,3

GOLD SAW BLADES FOR HEAVY WORK LAZER **210LAZER**


Curved saw blade for large cross-section metals and heavy duty applications.
Curved design for superior performance in all applications.



Bullet points

- T2TM technology and titanium coating increase the life of the blades.
- Titanium coating also increases cutting speed.



Ref.	Length x Width	Thickness (mm)	Teeth per inch	Blister units	
210926108GR	150x25	1,1	8	5	0,2
210936110GR	150x25	1,1	10	5	0,2
210946114GR	150x25	0,9	14	5	0,2
210956118GR	150x25	0,9	18	5	0,2
210969108GR	225x25	1,1	8	5	0,3
210979110GR	225x25	1,1	10	5	0,3
210989114GR	225x25	0,9	14	5	0,3
210999118GR	225x25	0,9	18	5	0,3
2110012110GR	300x25	1,1	10	5	0,4
2110112114GR	300x25	1,1	14	5	0,4
21510118R	300 x 19	0,9	18	5	0,1

LAZER SAW BLADES **2017**


Saw blade for large cuttings in metals.



Bullet points

- Power blast technology (intense blasting of cutting edges): increases blade life and reduces breakage.
- Wider spine allows for straighter cuts on large diameter materials.



Ref.	Length x Width	Thickness (mm)	Teeth per inch	Blister units	Maximum cutting thickness	
201706110R	150x25	1,1	10	5	Profiles and rods 5-13mm thickness	0,2
201726114R	150 x 25	0,9	14	5	Profiles and rods 2-10mm	0,2
201746118R	150 x 25	0,9	18	5	Profiles and rods 2-6mm thickness	0,2
201769110R	225 x 25	1,1	10	5	Profiles and rods 5-13mm thickness	0,3
201789114R	225 x 25	0,9	14	5	Profiles and rods 2-10mm	0,3
201809118R	225 x 25	0,9	18	5	Profiles and rods 2-6mm thickness	0,3
2018212110R	300 x 25	1,1	10	5	Profiles and rods 5-13mm thickness	0,4
2018412114R	300 x 25	1,1	14	5	Profiles and rods 2-10mm	0,4
2019012118R	300 x 25	1,1	18	5	Profiles and rods 2-6mm thickness	0,4

WOOD, METAL AND PLASTIC SAW BLADES

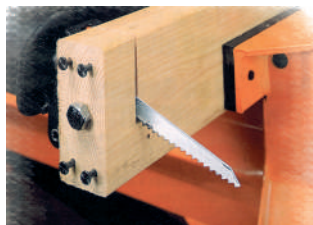
2055


Standard bi-metal saw blades for cutting wood, metal and plastic.



Bullet points

- T2TM technology: this type of serrated doubles blade life.
- Its design minimises friction and heat and improves cutting performance.



Ref.	Length x Width	Thickness (mm)	Teeth per inch	Application	
1769340B	150x19	0,9	14	Thin metal	0,2
1769341B	200x19	0,9	14	Thin metal	0,2
20552418R	100 x 19	0,9	18	Thick pipes	0,1
20556676RC	150 x 11	1,3	6	Wooden contours	0,1
20562610R	150 x 19	0,9	10	Plastic-aluminum	0,1
20564614R	150 x 19	0,9	14	Thick metal-rubber	0,1
20566618R	150 x 19	0,9	18	Thick pipes	0,1
20568624R	150 x 19	0,9	24	Pipes <18mm	0,1
20570636RP	150 x 19	1,3	6	Plaster	0,1
20572656R	150 x 19	1,3	6	Wood with nails	0,1
20575634R	150 x 19	1,3	4	Wood	0,1
20578818R	200 x 19	0,9	18	Thick pipes	0,2
20580810R	200 x 19	0,9	10	Plastic-aluminum	0,2
20582956R	225 x 19	1,3	6	Wood with nails	0,2
20583110R	300 x 19	1,3	10/14	Plastic-aluminum	0,3
20585156R	300 x 19	1,3	6	Wood with nails	0,3
20577850R	200 x 19	1,3	10/14	Wood with nails	0,1
20592650R	150 x 19	1,3	10/14	Wood with nails	0,2
20554424R	100 x 20	0,9	24	Thin metal	0,1

HARD METAL SAW BLADES

HSM

Saw blade for non-metallic cutting materials. Cuts tough materials that resist chipping, including ceramics, pipes, artificial stone, marble, etc.



Bullet points

- Carbide grain particles provide a fast and smooth cut.

Ref.	Length x Width	Thickness (mm)	Teeth per inch	Blister units	
20576800RG	200 x 19	1	Hard metal	2	0,1



DEMOLITION SAW BLADES **HSD**


Demolition saw blades: designed to cut easily through a wide variety of materials such as structural steel, woods and pipes.



Bullet points

- T2TM technology: this type of serrated doubles the life of the blades.



Ref.	Length x Width	Thickness (mm)	Teeth per inch	Blister units	
20597960R	225 x 25	1,6	10	2	0,1
20598966R	225 x 25	1,6	6	2	0,1

PALLET CUTTING SAW BLADES **107290**


Saw blades for cutting and restoration of pallets.



Bullet points

- The special treatment increases performance and withstands impacts on nails, which maintains cutting speed.
- Patented tooth design and rounded tip increase blade life and make it easier to get into tight spaces.



Ref.	Length x Width	Thickness (mm)	Teeth per inch	
10729	200x19	0,9	10	0,1
10730	250 x 19	0,9	10	0,1

Selection according to teeth per inch

1'								
6 TPI	10 TPI	12 TPI	14 TPI	18 TPI	24 TPI	32 TPI	GRIT	
ROUGH ←				CUT QUALITY				→ SMOOTH
FAST ←				CUT SPEED				→ SLOW
WOOD 1/16" - 4" (1.6 mm-101.6 mm)								
GENERAL PURPOSE 5/16" - 3-1/2" (7.9 mm-88.9 mm)		MEDIUM METAL 1/16" - 1/4" (1.6 mm-6.4 mm)						
THICK METAL > 3/32" (2.4 mm)				THIN METAL < 1/8" (3.2 mm)		ABRASIVES		
EXTRA THIN METAL < 1/16" (1.6 mm)								

Choice of leaf length



WOOD
PLASTICS & COMPOSITES

METAL

FINISH	CLEAN	ROUGH	N/A
CUT	STRAIGHT SCROLL	STRAIGHT OR SCROLL	STRAIGHT OR SCROLL
APPLICATION ADDER (IN)	2-1/2	2-5/8	2
APPLICATION ADDER (MM)	64	67	51

TIP Always keep 2-3 teeth in the material at all times



VALLCIA HACKSAW

5310



Hacksaw for 300mm blade.
Design preferred by professionals.
Withstands tensions up to 1800Kg/cm2.
Aluminium frame and handle.



Ref.	Blade	Tension	
5310	300mm	1800Kg/cm2	1,2

HIGH TENSION HACKSAW

HT



High tension hacksaw for straight and fast cutting with comfort grip.



Bullet points

- Reinforced handles for comfortable and safe handling even in wet or cold environments.
- Compatible with any LENOX batten blade for use as a pull saw.
- Storage of up to 5 extra 12" / 300 mm blades in the tensioning handle.



Ref.	Lenght	Tension	
HT50	300mm	3500 Kg/cm2	0,9

LIGHT HACKSAW

88300




High tension hacksaw for fast, straight cuts. Quickly tensioned 12 turns.



Bullet points

- 45° blade angle, ideal for flush cuts.
- Comfortable grip, rubber reinforced handle.

Ref.	Tension	Blade length	
88300	1400Kg/cm2	300mm	0,6

TECHNOLOGY HACKSAW BLADES (100 units) 20117




Bi-metal hacksaw blades.

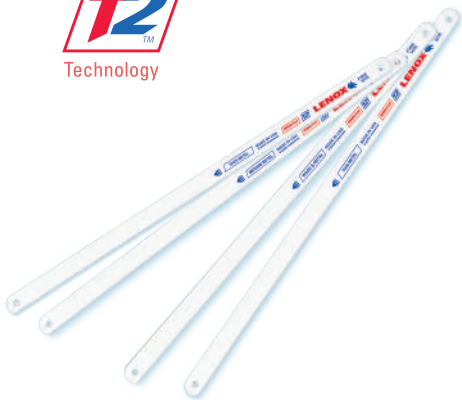
Bullet points

- T2TM technology: this type of serration doubles the life of the blades.
- Breakage resistance: bi-metal construction with 5% cobalt allows blades to bend and flex without breaking and achieves exceptional cutting performance.
- Box of 100 units.




Ref.	Length x Width	Teeth per inch	
20116218HE	300 x 13	18	0,1
20117224HE	300 x 13	24	0,1
20118232HE	300 x 13	32	0,1

TECHNOLOGY HACKSAW BLADES 20143



Breakage resistance: bi-metal construction with 5% cobalt allows blades to bend and flex without breaking and achieves exceptional cutting performance.
M-42 high speed steel cutting edge.
Tooth hardness HRc 64-66.



Ref.	Length x Width	Teeth per inch	Units	
20143V214HE	300x13	14	Blister 10	0,2
20144V218HE	300x13	18	Blister 10	0,2
20145V224HE	300x13	24	Blister 10	0,2
20146V232HE	300x13	32	Blister 10	0,2

TRI-FOLD 20997




Tri-fold saw designed to cut different materials. Compatible with any other standard saw blade.

Bullet points

- Comfortable handle for comfortable grip.
- Push button mechanism allows the blade to be fixed in 3 positions.



Ref.	Blade type	
20997	2 types: for plasterboard and multi-material	0,3



PVC PLASTIC PIPE HACKSAW

209800



Plastic pipe saw.

Bullet points


- Easy cutting of plastic pipes: unique serrated geometry for pull cutting and not in the other direction for safety reasons.
- Comfortable handle.
- Easy blade attachment on the underside of the handle for flush cutting applications.



Corte plano



Empuñadura confortable

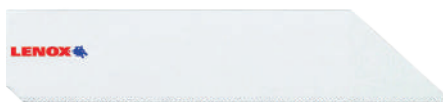
Ref.	Blade	Cutting materials	
20980	450	PVC	0,4


SPARE BLADE FOR METAL CUTTING HACKSAW

Replacement blade for hacksaw.

Bullet points

- Easy attachment of the blade to the bottom of the handle for flush cutting applications.



Ref.	Blade	Cutting materials	
20981	450	PVC	0,2

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LENOX 

GENERAL PURPOSE JIG SAW BLADES


1991406

Jig saw blades designed for wood, metal and plastic applications.

Bullet points

- Wide and thick teeth which provide durability while cutting metal and wood with inlaid nails.
- Pronounced serration maintains speed while cutting wood.



Ref.	Length x Width	Thickness (mm)	Teeth per inch	Blister units	Maximum cutting thickness	
1991366B	133 x 9,5	1,3	10	3	90mm	0,1
1991406B	100 x 9,5	1,3	6	3	45mm	0,1

METAL CUTTING JIG SAW BLADES


19915

Optimised jig saw blades for metal cutting applications.

Bullet points

- Thanks to the T2TM technology fast and efficient cutting in a variety of metal cutting applications is provided.
- Resistant to breakage.



Ref.	Length x Width	Thickness (mm)	Teeth per inch	Blister units	Maximum cutting thickness	
1991559B	92 x 9,5	0,9	14	3	Sheet>2.4 until 6.4mm	0,1
1991565B	92 x 9,5	0,9	18	3	Sheet>1.6 until 6.4mm	0,1
1991571B	92 x 9,5	0,9	24	3	Until 3.2mm	0,1
1991577B	92 x 9,5	0,9	32	3	Until 1.6mm	0,1
1991580B	133 x 9,5	0,9	14	3	Sheet> 2.5mm Tube>76mm	0,1

DIAMOND JIG SAW BLADE


1991606

Diamond edged jig saw blades.
Designed for granite, marble, porcelain and slate applications
Blister pack of one.

Bullet points

- Diamond particles and alloy steel reinforcement provides high stability.



Ref.	Length x Width	Thickness (mm)	Type	
1991606	89 x 9,8	0,8	Diamond	0,1

CARBIDE JIG SAW BLADE


1991608B

Jigsaw blades designed for ceramic tile, fibreglass and brick applications.

Bullet points

- Steel core prevents breakage.



Ref.	Length x Width	Thickness (mm)	Teeth per inch	Blister units	
1991608B	89 x 9,8	0,8	Carbide	3	0,6

CUTTING BLADES FOR CLEAN CUTS IN WOOD


HML

Jig saw blades designed for clean cuts in softwoods, hardwoods and chipboards.



Bullet points

- Ground teeth - cutting angle provides a clean and an abrasion-resistant finish.
- Narrow profile facilitates cutting in curves.

Ref.	Length x Width	Teeth per inch	Blister units	Application in wood	
1990703B	100 x 8	6	5	Hard 9,5-44,5	0,1
1990848B	100 x 8	6	5	Soft 9,5-4,5	0,2
1990961B	100 x 8	10	3	Hard 4,8-31,8	0,1
1990965B	100 x 8	10	5	Soft 4,8-31,8	0,2

CUTTING BLADES FOR DOWN CUTTING IN WOOD


19913850

Jigsaw blade for downward cuts in softwood, hardwood and chipboard
Inverted cutting teeth.



Bullet points

- Reversed serrated cut in the downward motion leaving the top of the material very clean.
- Grinding teeth for a clean cut.

Ref.	Length x Width	Thickness (mm)	Teeth per inch	Blister units	
1991385	100x8	1,5	10	5	0,1

CUTTING BLADES FOR QUICK CUTS IN WOOD


HMR

Jig sawblades designed for fast and easy cutting of soft wood, hardwood and chipboard.



Bullet points

- Tooth design eliminates chips for faster cutting or grinding.

Ref.	Length x Width	Teeth per inch	Blister units	Application in wood	
1991477B	100 x 6,4	6	5 blades	1,6-20mm	0,2

CUTTING BLADES FOR LAMINATED CUTS


HMLA

Jig saw blades designed for clean cutting of hardwoods and laminates.



Bullet points

- Cut uphill and downhill.
- Clean cut on both sides of the material.


Ref.	Length x Width	Teeth per inch	Blister units	Application in wood	
1991611B	89 x 5,6	20	3 blades	Soft 6-50mm	0,1

PROFESIONAL TUBE CUTTERS **21010C**



For copper, aluminium and stainless steel tubes.
 Very easy blade change.
 With 4 rollers that fix the tube offering greater cutting smoothness.
 Durable square metal guides.
 With built-in scraper to deburr the tube.



Ref.	Cut diameter	Cutting materials	
21011	3 to 35	Copper-Aluminum-Stainless	0,6
21013	6 to 67	Copper-Aluminum-Stainless	0,9

PVC TUBE CUTTER **R**



R1




R2

For cutting all types of plastic pipes: PVC, CPVC, PE, PB and flexible pipes.

Bullet points

- Can be used with one hand. Easy to open and close.
- Unique design holds the pipe in place during cutting with its stainless steel blade.



Ref.	Ømax	Cutting material	
R1	42	PVC-PEX-Poly	0,5
R2	60	PVC-PEX-Poly	1,0




TUBE CUTTERS BLADES



Spare blades for Lenox tube cutters.



Ref.	For pipe cutters	Material	
10507533	R1	PVC	0,1
10507534	R2	PVC	0,1

VARIBITS

3088

CLEAN AND FLAWLESS ORIFICES



Stepped conical drill bit with 2 cutting edges.
Main applications: aluminium, bodywork, electrical boxes, beams, sheet metal, stainless steel electrical boxes.



Bullet points

- Tapered tip design for faster penetration and less oscillation.
- Vapour oxide coating increases durability.

Ref.	Ø	Steps	Stem type	⚖️
30882	12,5 to 25	9	3 sides	0,1
30883	6 to 19	9	Quick change	0,1
30912	22 to 35	5	3 sides	0,2
30960	4 to 12	9	Quick change	0,1
30961	14 to 24	7	3 flat sides	0,1
30962	6 to 18	7	Quick change	0,1
30963	20 to 34	8	Quick change	0,2
30964	5 to 28,3	10	3 sides	0,1

NEUMATIC SAW BLADES

20427



Break-resistant bi-metal blades for cutting with pneumatic saws.



Bullet points

- High-speed steel teeth provide a strong and long-lasting cutting edge.
- Bi-metal blades are flexible and break-resistant for increasing durability.

Ref.	Length x Width	Thickness (mm)	Teeth per inch	Blister units	⚖️
20427424T	102 x 13	0,64	24	5	0,1
20428432T	102 x 13	0,64	32	5	0,1

CUTTING OIL FORZA

54401



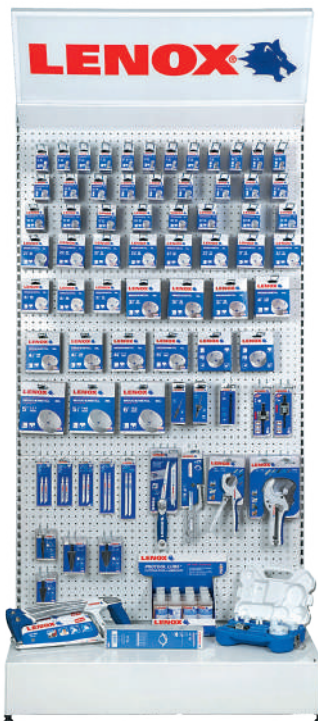
Cutting oil.
Extended tool life. Water-soluble, so it cleans up with water.
Biodegradable and non toxic.



Bullet points


- Reduces cutting time by up to 50%.
- Reduces heat and friction.

Ref.	Capacity	⚖️
54401	0,2 liters	0,2



Complete Lenox display with all kinds of products from our catalogue.



Ref.		Empty display
LX3	40,0	96052


Composition

Ref.	Description	u.	Ref.	Description	u.
20117224HE	224HE blade 300x13 24D	300	30034	34L hole saw 2" 1/8 54 mm	3
1991565B	BT318S jigsaw blade Bosch 75 x 10 18D	24	1816241	35L hole saw 56 mm	3
1991571B	BT324S jigsaw blade Bosch 75 x 10 10D	12	30036	36L hole saw 2" 1/4 57 mm	3
1990965B	BT410S jigsaw blade Bosch 100 x 8 10D	24	30038	38L hole saw 2" 3/8 60 mm	3
1991580B	BT518S jigsaw blade Bosch 135 x 10 18D	24	1816242	39L hole saw 62 mm	2
1991366B	BT686S jigsaw blade Bosch 133 x 9,5 10D	24	30040	40L hole saw 2" 1/2 64 mm	2
88300	Ligh weight hacksaw for blade 300mm	1	30041	41L hole saw 2" 9/16 65 mm	2
HT50	10507542 - High tension hacksaw 300 mm	1	30042	42L hole saw 2" 5/8 67 mm	2
20997	618636 - Trifold 2 blades	1	30043	43L hole saw 68 mm	2
20980	PVC plastic pipe hacksaw + 450 mm blades	1	30044	44L hole saw 2" 3/4 70mm	2
30001	1L arbor	6	30046	46L hole saw 2" 7/8 73 mm	2
30002	2L arbor	6	30048	48L hole saw 3" 76 mm	2
1768812	5L quick change arbor	2	30050	50L hole saw 3" 1/8 79 mm	2
1768813	6L quick change arbor	2	30052	52L hole saw 3" 1/4 83 mm	2
30009	9L hole saw 9/16" 14 mm	4	30054	54L hole saw 3" 3/8 86 mm	2
30010	10L hole saw 5/8" 16 mm	4	30056	56L hole saw 3" 1/2 89 mm	2
30011	11L hole saw 11/16" 18 mm	4	30058	58L hole saw 3" 5/8 92 mm	2
30012	12L hole saw 3/4" 19 mm	4	30060	60L hole saw 3" 3/4 95 mm	2
30098	HS hole saw 20 mm	4	30062	62L hole saw 3" 7/8 98 mm	2
30013	13L hole saw 13/16" 21 mm	4	30064	64L hole saw 4" 102 mm	1
30014	14L hole saw 7/8" 22 mm	4	30066	66L hole saw 4" 1/8 105 mm	1
30015	15L hole saw 15/16" 24 mm	4	30068	68L hole saw 4" 1/4 108 mm	1
30016	16L hole saw 1" 25 mm	4	30070	70L hole saw 4" 3/8 111 mm	1
30017	17L hole saw 1" 1/16 27mm	4	30072	72L hole saw 4" 1/2 114 mm	1
30018	18L hole saw 1" 1/8 29 mm	4	30074	74L hole saw 4" 5/8 118 mm	1
30019	19L hole saw 1" 3/16 30 mm	4	30076	76L hole saw 4" 3/4 121 mm	1
30020	20L hole saw 1" 1/4 32 mm	3	30080	80L hole saw 5" 127 mm	1
30021	21L hole saw 1" 5/16 33 mm	3	1816243	83L hole saw 5 1/4" 133 mm	1
30022	22L hole saw 1" 3/8 35 mm	3	30088	88L hole saw 5" 1/2 140mm	1
30023	23L hole saw 1" 7/16 37mm	3	30096	96L hole saw 6" 152 mm	1
30024	24L hole saw 1" 1/2 38 mm	3	178668	30430 EU700L electrician's hole saw set	1
30025	25L hole saw 1" 9/16 40 mm	3	LXAH9414CTPB	4-1/4" pilot bit 114mm	5
30026	26L hole saw 1" 5/8 41 mm	3	30960	VB1 VARI-BIT 9 steps Ø 4 to 12 mm	1
30027	27L hole saw 1" 11/16 43 mm	3	30961	VB2 VARI-BIT 7 steps to Ø 14 a 24 mm	2
30028	28L hole saw 1" 3/4 45 mm	3	30963	VB1 VARI-BIT 8 steps to Ø 20 a 34 mm	1
30029	29L hole saw 1" 13/16 46 mm	3	R1	10507481 - PVC tubing cutter PVC Ø42	2
30030	30L hole saw 1" 7/8 48 mm	3	54401	Cutting oil FORZA	12
30032	32L hole saw 2" 51 mm	3			
30033	33L hole saw 2" 1/16 52 mm	3			



Small table-top display of hole saws and arbor with pilot drills from our catalogue.



Ref.		Empty display
LX4	470,0	96100

Composition

Ref.	Description	u.
30009	9L hole saw 9/16" 14 mm	2
30010	10L hole saw 5/8" 16 mm	2
30011	11L hole saw 11/16" 17 mm	2
30012	12L hole saw 3/4" 19 mm	2
30098	HS hole saw 20 mm	2
30013	13L hole saw 13/16" 21 mm	2
30014	14L hole saw 7/8" 22 mm	2
30015	15L hole saw 15/16" 24 mm	2
30016	16L hole saw 1" 25 mm	2
30017	17L hole saw 1" 1/16 27 mm	2
30018	18L hole saw 1" 1/8 29 mm	2
30019	19L hole saw 1" 3/16 30 mm	2
30020	20L hole saw 1" 1/4 32 mm	2
30021	21L hole saw 1" 5/16 33 mm	2
30022	22L hole saw 1" 3/8 35 mm	1
30023	23L hole saw 1" 7/16 37 mm	1
30024	24L hole saw 1" 1/2 38 mm	1
30025	25L hole saw 1" 9/16 40 mm	1
30027	27L hole saw 1" 11/16 43 mm	1
30028	28L hole saw 1" 3/4 44 mm	1
30029	29L hole saw 1" 13/16 46 mm	1
30030	30L hole saw 1" 7/8 48 mm	1
30032	32L hole saw 2" 51 mm	1
30034	34L hole saw 2" 1/8 54 mm	1
30038	38L hole saw 2" 3/8 60 mm	1
LAXH9914PB	6.4mm large pilot bit 83mm	5
1768812	5L quick change arbor	5
1768813	6L quick change arbor	5
1768813	6L árbol automático	5

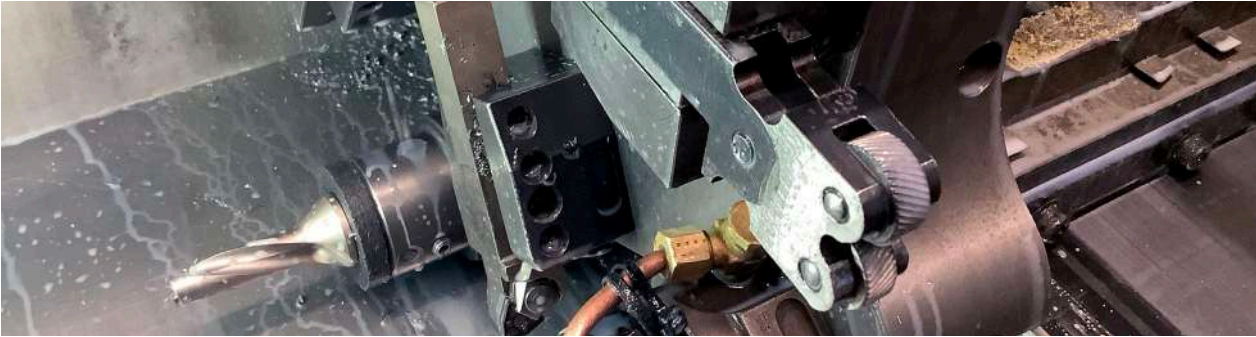




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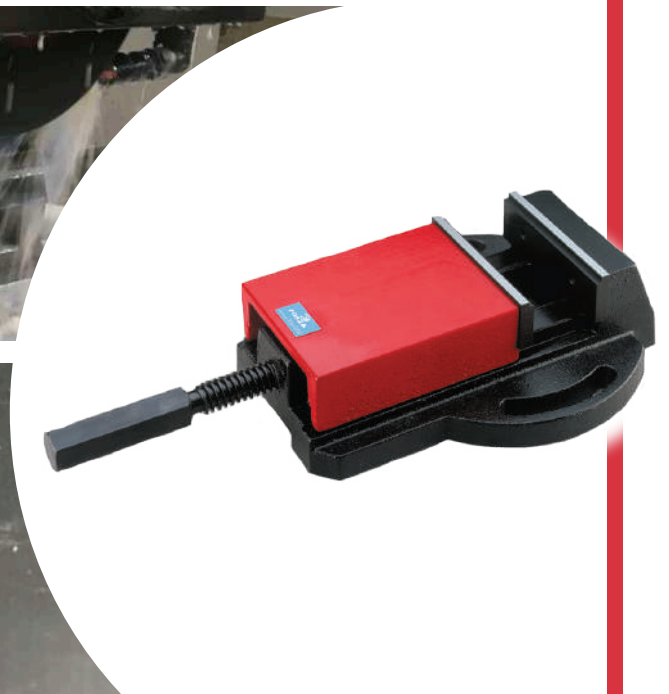
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WORKSHOP



TOOLS



VICES AND CLAMPING:

Designed by FORZA for more than 50 years.

Specially designed vises for drilling and tapping machines.

They are also very useful in small machining operations.

We also have a wide range of vises for milling machines and machining centers.

VICES AND CLAMPINGS

	Drilling vises	190-191
	Quick clamp vice	192
	Self centering vices	192
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	Downsliding vice.....	195
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Magnetic holders 199



Quicks.....199-200

TOOLS HOLDERS AND KNURLING TOOLS



Knurling tools201-202



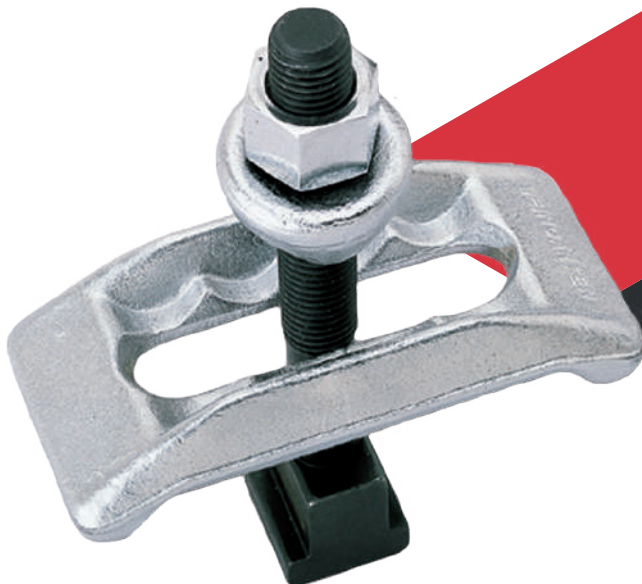
Holders tools.....203-205



Machine vices catalogue206-208



KM lock nut removal spanner.....209-212





MASTER SERIE 33M

33M



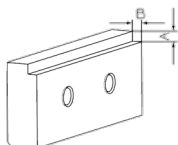
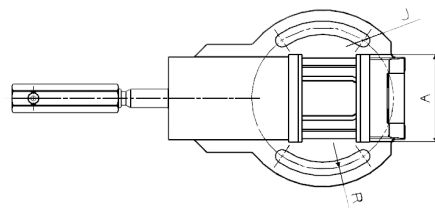
Professional vice for any drilling and threading operations.


Bullet points

- Supplied with hardened stepped jaws.
- Protected spindle that prevents damage.
- Grooved chanel for making the clamping easier.
- No clamps needed..



Construida en fundición nodular



Ref.	A	B	H (Height)	X	D	E	Lenght	Clamps	
33/65M	65	76	49	3	26	19	207	-	2,8
33/85M	85	90	54	3	26	22	242	-	4,8
33/100M	105	116	66	4	32	24	310	12560	9,0
33/125M	125	157	83	4,5	42	27	395	12560	16,2
33/150M	150	190	95	6	52	27	470	12560	25,2

PROFESSIONAL 33P SERIE

33P



Professional vice for any drilling and threading operations.

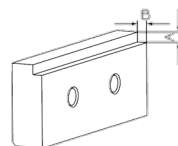
It includes: clamping rod, set of prismatic jaws, set of soft jaws and 2 T nuts 12/14 and 16/18.


Bullet points

- Supplied with hardened stepped jaws.
- Protected spindle that prevents damage.
- Grooved chanel for making the clamping easier.
- No clamps needed.



Construida en fundición nodular



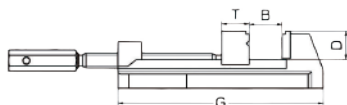
Ref.	A	B	H (Height)	X	D	E	Lenght	Clamps	
33/85P	85	90	54	3	26	22	242	-	5,8
33/100P	125	116	66	4	32	24	310	12560	10,3
33/125P	125	157	83	4,5	42	27	395	12560	18,2

SERIE 82 ECONOMY

82



Construida en fundición nodular




Light vice for any type of drilling and threading work. It contains the same parts as the serie 33 except for the jaw holder and the movable jaw. It is a monoblock piece.



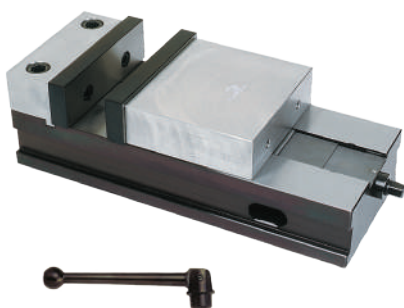
Bullet points

- Grooved chanel for making the clamping easier.
- No clamps needed.
- Clamping block with two 90 degrees prisms and with a step.
- It is possible to use swivel base (optional).

Ref.	To	B	D	G	T	X	
82/85	85	95	25,5	188	25	3	4,0
82/100	100	105	31,5	241	40	4	8,5
82/125	125	116	41,5	300	40	4,5	14,7
82/150	150	160	52,5	345	40	6	19,6

SERIE 28 DRILLING MACHINE VICE

28



Suitable vice for drilling and threading big pieces.



Bullet points

- Spindle protected to avoid damage.
- The rotating handle avoids colliding with any obstacle: milling T table, etc.
- Tempered steel body for greater resistance and aluminum jaw holder and clamping block.

Ref.	A	B	Width	C	D	Height	
28A150	403	150	160	150	70	120	28,5

SWIVEL BASE FOR 28A150

B28150



Swivel base for drilling vices 28A150.

Ref.	Base height	External Diameter	
B28150	25,5	275	11,0



SERIE 38 QUICK CLAMP VICE

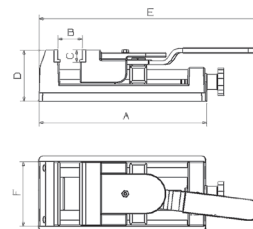
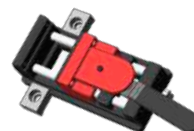
38


Quick clamping vice for drilling, threading and light milling works for mass production.



Bullet points

- It allows to clamp and release the part in tenths of second.
- Each vise is supplied with stepped jaws and two sets of soft jaws.



Ref.	A	B	C	D	E	F	Clamps	
38/80	230	80	20	75	385	80	12561	7,0
38/103	275	90	20	85	420	103	12561	10,5
38/125	400	125	30	105	555	125	15061	25,0

37 SERIE SELF CENTERING VICES

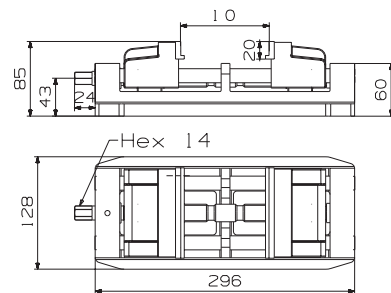
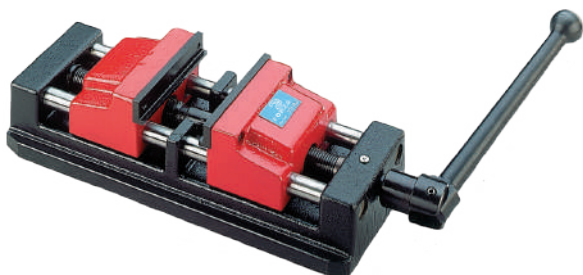
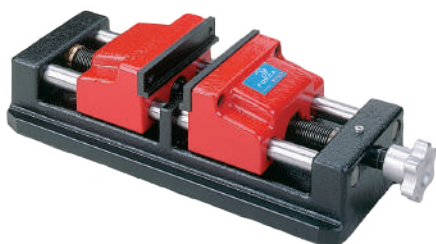
37



Selfcentering drilling vice for drilling, threading and light milling.



Bullet points

- It fastens the center of the piece.
- Swivel base could optionally be used.
- 2 sets of soft jaws included.
- Supplied with stepped jaws.





Ref.	Adjustment		Height	Mouth	Apertura	
37/103	Handle	-	85	103	110	11,9
37/103B	Handle	3710398	85	103	110	17,5
37/103BP	Knob	3710398	85	103	110	16,7
37/103P	Knob	-	85	103	110	11,6

SWIVEL BASES FOR SERIE 33

Swivel base for drilling vices for 33 and 82 serie.
They can be used as two jaw chuck in lathe machines.





Ref.	Clamps		
336598	336560	33/65	2,2
338598	336560	33/85 - 82/85	2,9
3310098	12560	33/100 - 82/100	6,0
3312598	12560	33/125 - 82/125	8,7
3315098	12560	33/150 - 82/150	9,5

PINS FOR SERIE 33

clamping rod for drilling vices for 33 and 82 serie.





Ref.		
336509	33/65	0,1
111893	Others	0,1

SET SOFT JAWS SERIE 33

Soft jaws set por drilling vices for serie 33.





Ref.		
336550	33/65	0,3
338550	33/85	0,4
3310050	33/100	0,6
3312550	33/125	0,9
3315050	33/150	1,9

NORMAL SET JAWS SERIE 33

Normal set of stepped jaws for drilling vices for serie 33.





Ref.	Step		
336514	3	33/65	0,1
338514	3	33/85	0,2
3310014	4	33/100	0,3
3312514	4,5	33/125	0,4
3315014	6	33/150	0,9



SET PRISMATIC JAWS WITH STEP SERIE 33

Prismatic stepped jaws for drilling vices for serie 33.




Ref.	Step		
336551	3	33/65	0,2
338551	3	33/85	0,4
3310051	4	33/100	0,5
3312551	4,5	33/125	0,8
3315051	6	33/150	1,7

T NUT SERIE 33

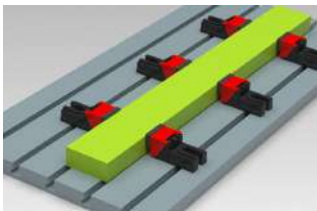
T nuts for drilling vices for 33 and 82 serie.



Ref.	Canal	M	
33121408	for 12-14	M8	0,1
33161808	for 16-18	M8	0,1
33121410	for 12 -14	M10	0,1
33161810	for 16 -18	M10	0,1
33161814	for 16 - 18	M14	0,1
33202214	for 20-22	M14	0,1



STANDARD VICES SERIE 34 34

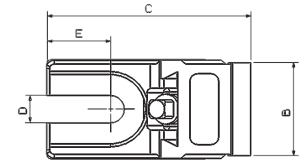
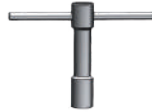
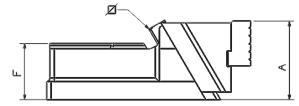


Vice for special works such as long pieces, dies and other specific clamping needs.
It is supplied in sets of 2 units plus a wrench.



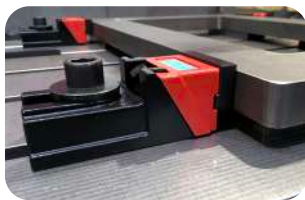
Bullet points

- Lathe machine wrench for a better clamping.
- The descending effect avoids any lift up of the piece.



Ref.	A	B	C	D	E	F		
34/60	52-60	62	138	19	42	34	12	4,2
34/62	82-92	62	175	19	74	57	12	8,0
34/79	66-78	82	170	24	53	45	12	9,2
34/112	90-105	115	240	31	84	65	17	26,5

INDIVIDUAL STANDARD VICES SERIE 34 346000



Descending effect vice, supplied individually.
The vice separately does not include the wrench.

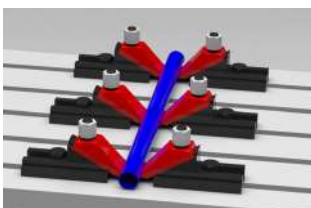


Bullet points

- Lathe machine wrench for a better clamping.
- The descending effect avoids any lift up of the piece.

Ref.	A	B	C	D	E	F		
346000	52-60	62	138	19	42	34	12	2,0
346200	82-92	62	175	19	74	57	12	3,9
347900	66-78	82	170	24	53	45	12	4,5
3411200	90-105	115	240	31	84	65	17	12,3

DOWNSLIDING VICES SERIE 35 35

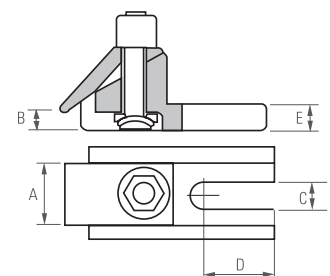


Designed vices for clamping thin or round pieces in milling or drilling machines.
Descending effect vice supplied in sets of 4 units/each.



Bullet points

- The descending effect avoids any lift up of the piece.
- Specifically designed for clamping big sizes sheets in different machines.



Ref.	A	B	C	D	E	
35/45	45	0-13	20	60	23	6,4

INDIVIDUAL SLIDING VICES

354000




Designed vices for clamping thin or round pieces in milling or drilling machines.

Bullet points

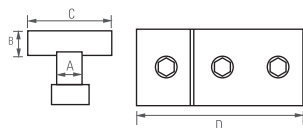
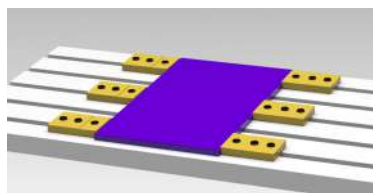
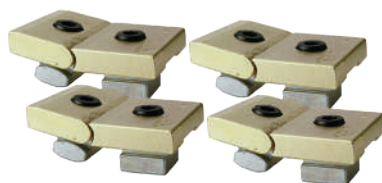
- The descending effect avoids any lift up of the piece.
- Specifically designed for clamping big sizes sheets in different machines.



Ref.	To	B	C	D	E	
354500	45	0-13	20	60	23	1,6

PLAIN VICES SERIE 36

36




Plain vice for clamping very low height pieces. Specifically designed for clamping large metal sheets in machines. Low T-support for the movable jaw holder.

Bullet points

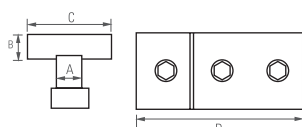
- The oscillating jaw allows to fasten very small height pieces.



Ref.	A	B	C	D	
36/60	15,5	12	60	75	2,3
36/64	17,5	15	60	105	4,0
36/65	19,5	15	60	105	4,3
36/66	21,5	15	60	105	4,6
36/78	17,5	15	80	125	8,1
36/79	19,5	15	80	125	7,2
36/80	21,5	15	80	125	7,1

INDIVIDUAL PLAIN VICES SERIE 36

366000




Plain vice for clamping very low height pieces. Specifically designed for clamping large metal sheets in machines.

Bullet points

- The oscillating jaw allows to fasten very small height pieces.



Ref.	A	B	C	D	
366000	15.5	12	60	75	0,6
366400	17.5	15	60	105	0,9
366500	19.5	15	60	105	1,0
366600	21.5	15	60	105	1,1
367800	17.5	15	80	125	1,9
367900	19.5	15	80	125	1,8
368000	21.5	15	80	125	1,8

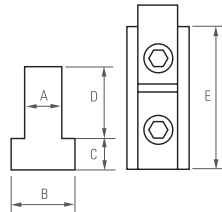
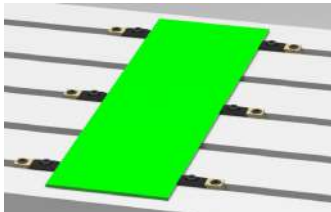
T SLOT VICES SERIE 37 37 CANAL



Vices for clamping extremely thin parts.

Bullet points

- The jaw is practically hidden in the channel of the machine.
- The T slot vices are supplied in sets of 4 units each.



Ref.	A	B	C	D	E	⚖️
37/12	11,5	20	8	16	28	0,4
37/14	13,5	23	9	18	40	0,6
37/16	15,5	26	10	21	45	0,8
37/18	17,5	29	11	24	45	1,0
37/20	19,5	33	13	26	50	1,5
37/22	21,5	35	14	29	53	1,7

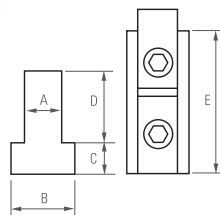
INDIVIDUAL T SLOT VICES SERIE 37 37120000



Vices for clamping extremely thin parts.

Bullet points

- The jaw is practically hidden in the channel of the machine.



Ref.	A	B	E	C	D	⚖️
371200	11,5	20	8	16	28	0,1
371400	13,5	23	9	18	40	0,1
371600	15,5	26	10	21	45	0,2
371800	17,5	29	11	24	45	0,3
372000	19,5	33	13	26	50	0,4
372200	21,5	35	14	29	53	0,4

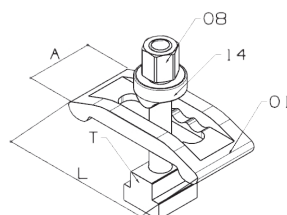
ARCHED CLAMPS 39



Suitable clamps for clamping tooling and molds.

Bullet points

- Clamp, that due to the design of the vice body and nut-shaped washer, does not need to work in horizontal position, and can also be assembled bended.
- Its design allows the use of lifting blocks of different sizes than the piece and it is perfect for placing toolings and dies.



Ref.	L (Length)	A	T	⚖️
39/56	123	56	18	1,0
39/57	123	56	20	1,1
39/58	123	56	22	1,2
39/59	123	56	24	1,2
39/70	160	70	22	1,9
39/71	160	70	24	2,1
39/72	160	70	28	2,2


BENCH VICES SERIE 88

88



Manufactured in forged steel.
Steel hardness 45-51 HRC.
Square guide.
Tempered steel hardened jaws.
Induction tempered anvil base.



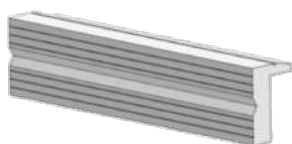
Ref.	Height	Height	Anvil	
88/100N	100	65	35x40	6,4
88/125N	125	80	53x70	11,8
88/150N	200	100	66x80	19,0


SLOTTED ALUMINIUM JAWS

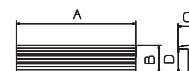
Magnetized aluminium jaws. They protect the pieces while working.

Bullet points

- Very easy to place.



Ref.	A	B	C	D	
8810051	102	29	20	25	0,1
8812551	128	29	20	25	0,2
8815051	153	29	20	25	0,2

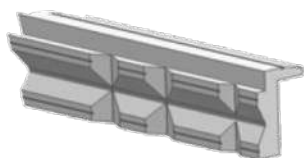


PRISMATIC ALUMINIUM JAWS

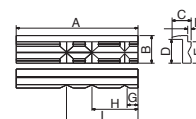
Magnetized aluminium jaws. They protect the pieces while working.

Bullet points

- Very easy to place.
- With V and stepped.



Ref.	A	B	C	D	E	F	G	H	
8810052	102	29	20	25	3	22	14	48	0,1
8812552	128	29	20	25	3	22	14	48	0,2
8815052	153	29	20	25	3	22	14	48	0,2




SPECIAL PLASTIC JAWS

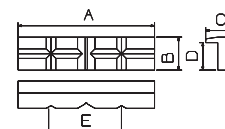
Plastic jaws. They protect the pieces while working.

Bullet points

- Very easy to place.
- With V and different positions.



Ref.	A	B	C	E	D	
8810053	100	30	25	49	25	0,1
8812553	124	30	25	49	25	0,2
8815053	148	30	25	64	25	0,2

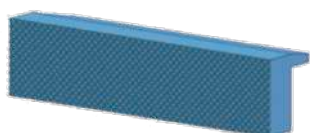



PLASTIC JAWS

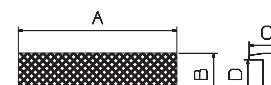
Plastic jaws. They protect the pieces while working.

Bullet points

- Very easy to place.
- Knurled surface for improving the clamping.



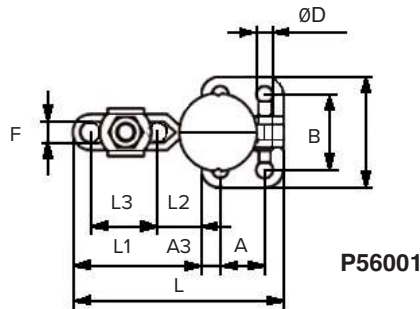
Ref.	A	B	C	D	
8810054	123	30	25	25	0,1
8812554	100	30	25	25	0,2
8815054	148	30	25	25	0,2



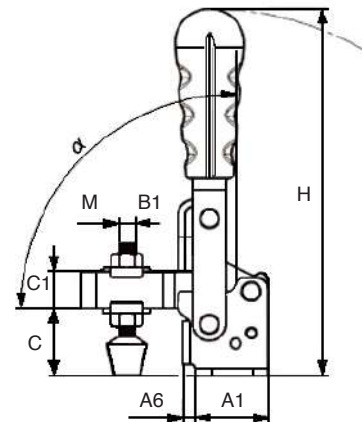


QUICK VERTICAL TOGGLE CLAMPS **P560010**

Quick clamping for tooling.
The handle rotates 90 degrees.
Vertical clamping.

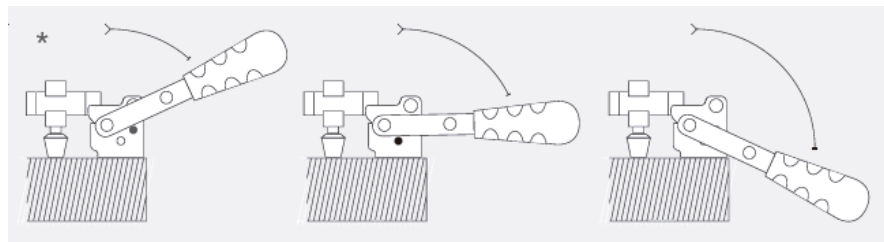


P56001



Other models

Lever travel according to pin position



*for all models except P56001

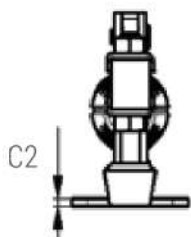
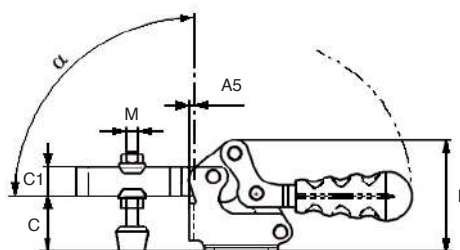
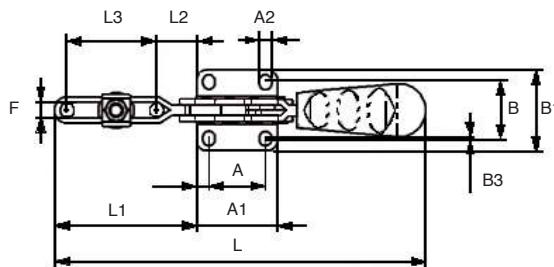
Ref.	Maximum strength	Degrees	To	A1	A3	A6	B	B1	C	C1	C2	D	F	H	L	L1	L3	
P56001	450N-45kg	67.40	16	26	5	-	23,4	33,4	19	8	2	4,4	5	77	50,4	24,4	16,4	0,1
P56002	1500N-150kg	93	12,7	27	7	-	26,9	37,9	23	11	3	5,1	6	111	70	42,9	21,5	0,2
P56003	2500N-250kg	90.40	19	35	8	5,5	32	47	32	17,5	3,2	7,1	8,9	175	90	55	28	0,4
P56004	3400N-340kg	90	32	50	9	10	45	64	42	22	4	8,3	10,6	218	143	92,8	60,5	0,8
P56005	3600N-360kg	101	32	50,8	9,5	12,2	45	64	50,8	22,5	3	8,6	13,4	224	176	125	82,5	1,1



QUICK HORIZONTAL TOGGLE CLAMPS

P56050

Quick clamping for tooling.
The handle rotates 90 degrees.
Vertical clamping.

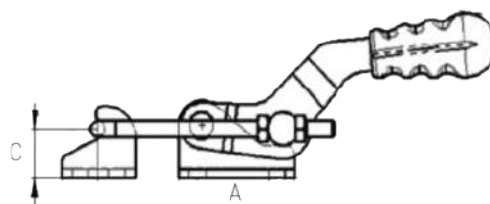
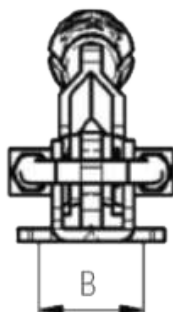


Ref.	Maximum strength	Length	Degrees	A	B	C	⚖️
P56050	380N-38kg	68	87	11,1	19	7,4	0,1
P56051	700N-70kg	105	94	13,5	19	19	0,1
P56052	900N-90kg	162	96	26	28	25	0,2
P56053	2200N-220kg	189	95	26	31	34	0,4
P56054	3400N-340kg	269	95	41,2	43	45	0,9

QUICK CLAMP HOOK

P56201

Quick clamping for tooling.
The handle rotates 90 degrees.
Vertical clamping.



Ref.	To	B	C	⚖️
P56201	19	32	14	0,3

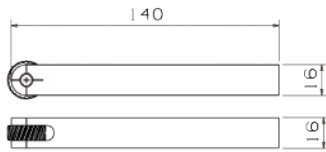
KNURLING TOOLS M1 **M1**



1 mm helicoidal knurl included.

Bullet points

- Specifically for straight knurling on small lathe machines.
- It is possible to reach quite close to the lathe machine plate.



Ref.	A	B	C	
M1/8	16	16	140	0,4

KNURLING TOOLS M2 **M2**

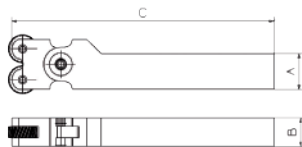



1mm helicoidal knurl set included.

The head's turn allows to align the knurl to the working piece. Either straight or cross knurling are possible.

Bullet points

- For knurling parts where the slimness of the part allows to do it.



Ref.	A	B	C	
M2/20	25	20	185	0,8
MF2/20	19,5	20	185	0,8

KNURLING TOOLS M20 **ME20**

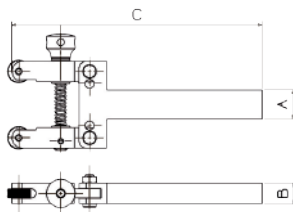


1mm helicoidal knurl set included.

Spindle for making pressure over the knurling. Either straight or cross knurling are possible.

Bullet points

- For knurling parts where the slimness does not allow pushing with the knurl.



Ref.	A	B	C	
ME20/50	25	18	210	1,1



HSS KNURLS

MA

HSS 8% Co knurls.
Supplied in sets of 2 units.
Diameter of the knurls 20mm and diameter of the hole of the knurl 6mm.




Rectas



Helicoidales

Bullet points

- It can knurl steel up to 125kg/mm².

Ref.	Knurl type	Knurl width	Pitch	
0,6	Straight	8	0,6	0,1
1,00	Straight	8	1	0,1
1,25	Straight	8	1,25	0,1
1,50	Straight	8	1,5	0,1
1,75	Straight	8	1,75	0,1
0,6H	Helicoidals set	8	0,6	0,1
0,6R	Straights set	8	0,6	0,1
1H	Helicoidals set	8	1	0,1
1R	Straights set	8	1	0,1
1,25H	Helicoidals set	8	1,25	0,1
1,25R	Straights set	8	1,25	0,1
1,50H	Helicoidals set	8	1,5	0,1
1,50R	Straights set	8	1,5	0,1
1,75H	Helicoidals set	8	1,75	0,1
1,75R	Straights set	8	1,75	0,1

TOOL HOLDERS SERIE 400


400

Toolholders with blades and hard metal chip included.

Bullet points

- It is very easy to sharpen the blade.



Ref.	A	B	C	Blade	
410	22	24	160	10x8x45	0,8
412	28	32	180	12x10x55	1,6

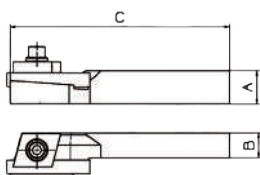
TOOL HOLDERS SERIE 500


500

Toolholders for rolling and countereng.
Angled blade position.
Angle of incidence 4 degrees.
Blades not included.

Bullet points

- There is no need to do "an exit" to the blade.



Ref.	A	B	C	Blade	
508D	20	14	125	6-8	0,3
508I	20	14	125	6-8	0,3
510D	24	18	155	8-10	0,6
510I	24	18	155	8-10	0,6
512D	30	24	180	10-12	1,1
512I	30	24	180	10-12	1,1

TOOL HOLDERS SERIE 600 **600**

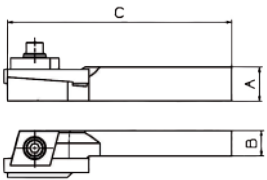



Toolholders for rolling and counterering.
Straight blade position.
Angle of incidence 4 degrees.
Blades not included.



Bullet points

- There is no need to do "an exit" to the blade.



Ref.	A	B	C	Blade	
608D	19	13,5	126	6-8	0,3
608I	19	13,5	126	6-8	0,3
610D	24	18	155	8-10	0,6
610I	24	18	155	8-10	0,6
612D	30	24	180	10-12	1,2
612I	30	24	180	10-12	1,2

CUT OFF TOOL HOLDER SERIE 700 **700**

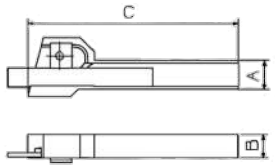



Toolholder with cutting blade.
Allows great use of the blade.
Blades not included.



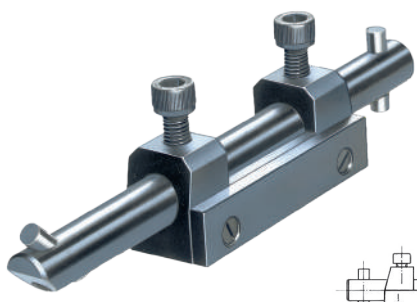
Bullet points

- Straight attack for rigid lathe machines.



Ref.	A	B	C	Blade	
701T	19,5	15	153	2,5x15-2x13	0,4
702T	26	13	153	2,5x15-2x13	0,4
703T	35	16	178	3,5x19-4x22	1,0

INTERNAL TOOL HOLDERS **800M**

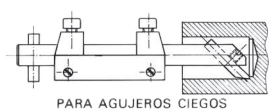



Equipped with two HSS high-speed steel blades.
For blind holes, through and thread.



Bullet points

- Inside boring.



Ref.	A diameter	B	Blade diameter	
809M	9	115	4	0,3
815M	15	170	8	0,6
818M	18	220	8	1,1
822M	22	260	10	1,8
826M	26	285	10	2,5
830M	30	330	12	3,5



TOOL HOLDERS SERIE 900

900



Toolholders for turning and facing.
Blades not included.

Bullet points

- There is no need to wedge while looking for the center. Just take out the blades.



Ref.	A	B	C	Blade	⚖️
906RD	25	14	130	6-8	0,3
906RI	25	14	130	6-8	0,3
908RD	32	18	155	8-10	0,6
908RI	32	18	155	8-10	0,6
910RD	38	22	250	10-12	1,5
910RI	38	22	250	10-12	1,5

CUT OFF SERIE CC

CCN1



Toolholders for turning and facing.
Blades not included.

Bullet points

- There is no need to do "an exit" to the blade.



Ref.	A	B	C	Blade	⚖️
CCN1	17,5	16	158	2,5x15-2x13	0,6

SERIE L10

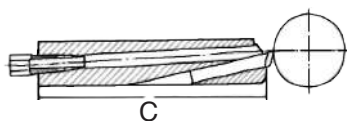
L10



For lathe and filing machine.
The clamping of the blade is very safe.
Blades not included.

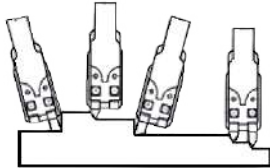
Bullet points

- There is no need to wedge while looking for the center. Just take out the blades.



Ref.	A	B	C	Blade	⚖️
L10	18	34	175	10	0,8

CYLINDER AND FILING TOOL HOLDERS L3000




Specific tool holder for lathes.
Blades are not included.



Bullet points

- It can work either clockwise or anticlockwise.
- I can rough down and finish at the same time.

Ref.	A	B	C	Blade	
L300	12	24	195	8	0,9
L500	20	28	210	10	1,3

TURNING AND FACING TOOL HOLDERS TN




Lathe toolholder with steel chip breaker.
Blades are not included.



Bullet points

- The blade does not need an exit.
- There is no need to wedge while looking for the center.

Ref.	A	B	C	Blade	
TN1	19	16	195	8	0,5
TN2	24	18	200	10	1,0
TN3	26	29	235	12	2,1

TOOL HOLDERS SERIE WN WN20




Toolholder for rolling with widia chip breaker.
Blades are not included.



Bullet points

- There is no need to do "an exit" to the blade.

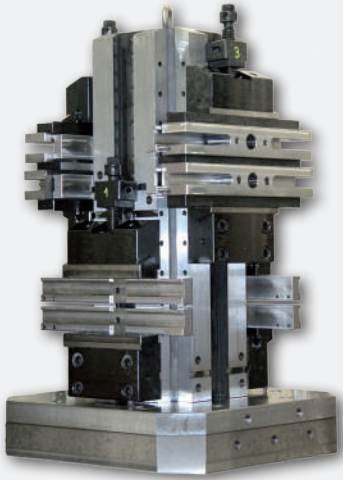
Ref.	A	B	C	Blade	
WN2	24	18	200	10	1,1
WN3	26	29	235	12	2,1

We have a catalog of machine vices

Machine Vices and Milling Heads

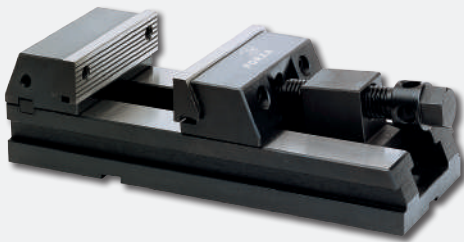
- Integrated clamping vice towers
 - Descending machine vices
 - Guides machine vices
- Machine vices for large pieces
 - 5 axis machine vices
 - Vices for cubes
- Grinding machine vices
 - Internal milling heads





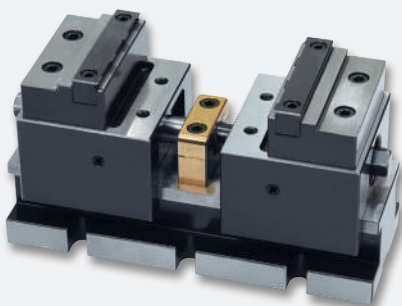
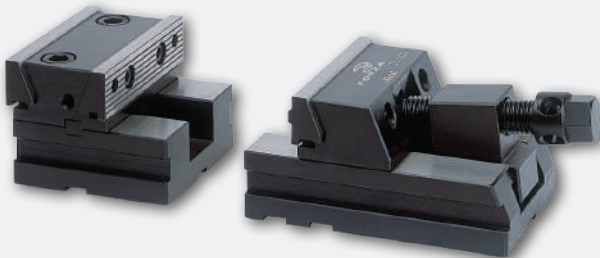
Tombstones

- A specific and inexpensive tooling that allows you to leave it stopped when you are not manufacturing parts and assemble it in minutes when needed.
- We manufacture towers of machine vices to the size you need.
- We look for specific tooling (cheaper), we avoid universal tooling (much more expensive).
- We have incredibly reduced lead times and prices to manufacture custom tooling. We carry out the tooling study completely free of charge. We include the sending of the designs in 3D files.



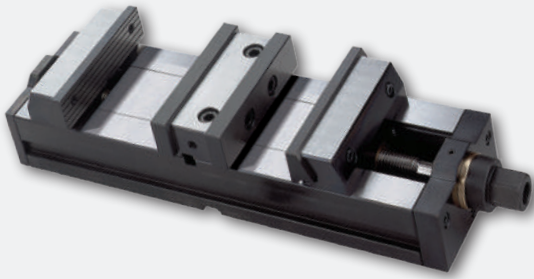
Descending machine vices

- Different series depending on the required precision:
- Series 30, Guided, oscillating, Vices for cubes, split vices, self-centering, double vices and vices for making squares.
 - Manufactured in hardened steel. F155.
 - Interchangeable locks: mechanical, hydraulic, torque multipliers and oil pneumatic.
 - Jaw width from 100 to 300 mm.
 - Vices openings from 100 to 600 mm.
 - Main accessories: extensions, lifting blocks, clamps, key nuts, work stops, swivel base, parallel, prismatic jaws, soft. jaws, etc.



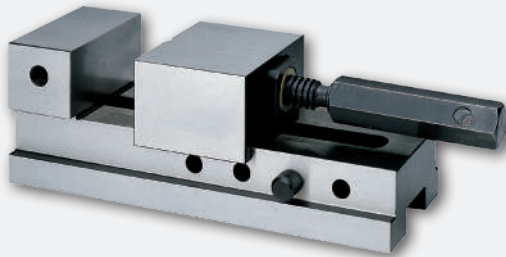
5 axes machine vices

- Latest generation of vices for this type of machines.
- Carriages with two anchoring positions to the jaw holder.
 - Reversible jaw holder.
 - Spindles with trapezoidal thread.
- Reversible jaws: Flat on one side and indented on the other side.
 - Made of hardened steel. F155.



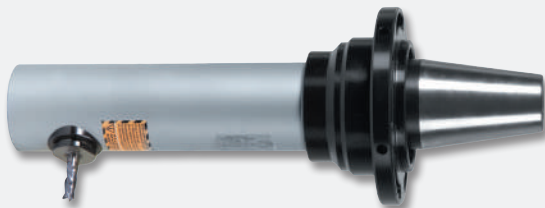
Double position vices

- Double vices transformable into self-centering vices.
 - Double vices with two spindles.
 - Aluminum machined jaw holders.
- Lower positioning spindle for greater jaw capacity.



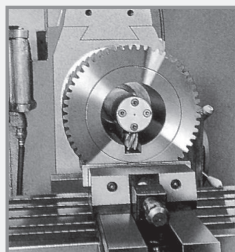
Grinding machine vices

- High precision grinding machine vices with high precision on any of their faces.
 - Sinus and multi-angular vices.
- We also have conventional vices for milling machines, threading machines and other machines.



Milling heads

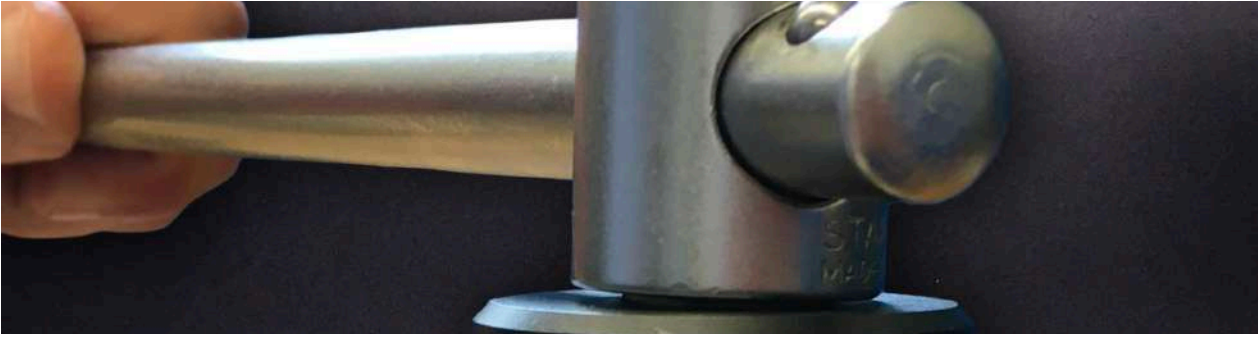
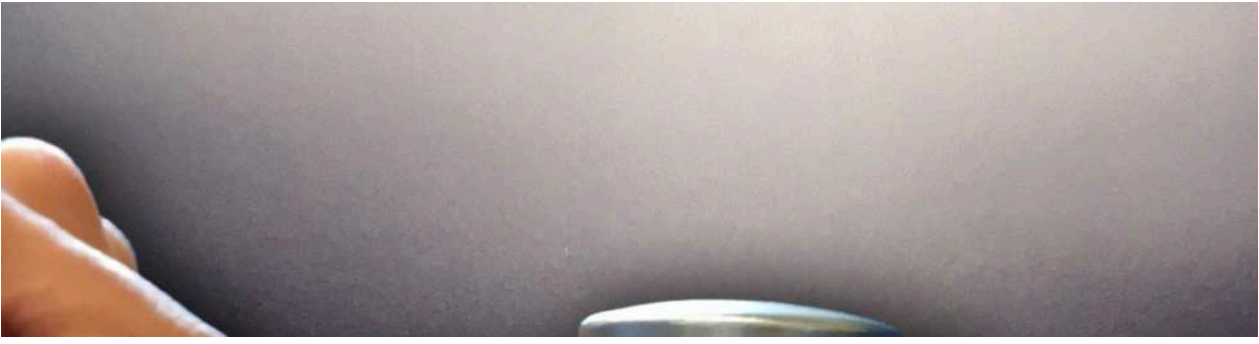
- Internal milling head.
 - For milling works inside parts.
- It replaces broaching and mortising works.
 - 5 different sizes.
- Milling head extensions.
- Suitable for working with milling cutters, keyways and threaded cutters.



50 years of experience in
the manufacture of machine
vices and milling heads.

Consult our catalog at

www.forza.es



SHORT SPANNERS

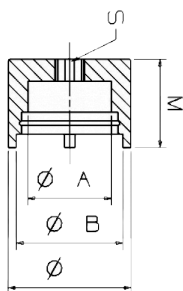
96100C

Wrenches designed to remove crenellated Km nuts without damaging them.



Bullet points

- They practically have the same diameter as the nuts.



Ref.	KM	ØA	ØB	ØC	M	Square Drive	⚖
961011	1	12	18	22	30	Hex18	0,1
961021	2	12	21	25	35	Hex20	0,1
961031	3	18	25	28	40	1/2"	0,1
961041	4	18	28,5	34	40	1/2"	0,2
961051	5	24	34,5	40	40	1/2"	0,2
961061	6	31	42	47	40	1/2"	0,3
961071	7	36	49	54	40	1/2"	0,4
961081	8	42	54	60	40	1/2"	0,4
961091	9	47	58	67	40	1/2"	0,6
961101	10	52	65	72	40	1/2"	0,6
961111	11	57	70,5	77	50	3/4"	0,8
961121	12	62	76	82	50	3/4"	0,9
961131	13	67	80	87	50	3/4"	1,3
961141	14	74	86	94	50	3/4"	1,5
961151	15	80	89	102	80	1"	2,5
961161	16	87	98	109	80	1"	2,8
961171	17	92	104	114	80	1"	3,0
961181	18	102	114	124	80	1"	3,5
961191	19	107	119	129	80	1"	3,8
961201	20	112	121	136	80	1"	4,2
961211	21	122	133	146	80	1"	4,7
961231	23	132	141	156	80	1"	5,4
961241	24	137	146	161	80	1"	5,7
961301	30	177	186	201	90	1"	9,5

EXTENSION FOR SPANNERS

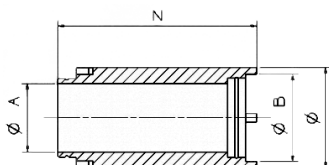
96100P

KM removal wrench extension for enlarge the wrench length.



Bullet points

- They practically have the same diameter as the nut.
- It allows extracting in deep and lack of space applications thanks to an extension..



Ref.	KM	ØA	ØB	ØC	N	⚖
961042	4	18	28,5	34	100	0,4
961052	5	24	35	40	100	0,5
961062	6	31	42	47	100	0,7
961072	7	36	49	54	100	0,9
961082	8	52	54	60	100	1,1
961092	9	47	58	67	110	1,3
961102	10	52	65	72	110	1,4
961112	11	57	70,5	77	110	1,6
961122	12	62	76	82	110	1,7
961132	13	67	80	87	120	2,0
961142	14	74	86	94	120	2,2



COMPLETE SPANNERS

96101

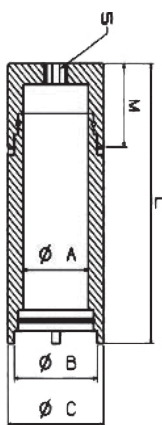


Wrenches designed to remove crenellated Km nuts without damaging them. It includes the short length removal wrench and the extension.



Bullet points

- They practically have the same diameter as the nut.
- It allows extracting in deep and lack of space applications thanks to the length of the extension..



Ref.	KM	ØA	ØB	ØC	L	M	N	Square Drive	⚖️
96104	4	18	28,5	34	124	40	100	1/2"	0,6
96105	5	24	34,5	40	124	40	100	1/2"	0,8
96106	6	31	41,5	47	134	40	100	1/2"	1,0
96107	7	36	48,5	54	134	40	100	1/2"	1,2
96108	8	42	53,5	60	134	40	100	1/2"	1,5
96109	9	47	58	67	144	40	110	1/2"	1,9
96110	10	52	65	72	144	40	40	1/2"	2,1
96111	11	57	70,5	77	144	50	110	3/4"	2,5
96112	12	62	76	82	144	50	110	3/4"	2,6
96113	13	67	80	87	153	50	120	3/4"	3,3
96114	14	74	86	94	153	50	120	3/4"	3,6

KM LOCK NUTS REMOVAL WRENCH EXHIBITOR

96700



Showroom metal display.

Bullet points

- They practically have the same diameter as the nut.
- It allows extracting in deep and lack of space applications thanks to an extension.



Ref.	Short spanner	Spanner and extension	Suitcase	⚖️
96700A	961081, 961091 and 961101	96104, 96105, 96106 and 96107	-	6,0
96700M	961081, 961091 and 961101	96104, 96105, 96106 and 96107	96800	29,0

DO YOU KNOW HOW TO USE KM NUT REMOVAL WRENCHES?






96800 SHORT KM SPANNER SET

96800



Cases with a complete range of KM lock nut removal wrenches. High quality plastic case.



Bullet points

- They practically have the same diameter as the nut.

Ref.	Contains	
96800	KM4 to KM10	3,0

96801 COMPLETE KM SPANNER SET

96801




Case with a complete range of KM lock nut removal wrenches. High quality plastic case.



Bullet points

- They practically have the same diameter as the nut.
- It allows extracting in deep and lack of space applications thanks to the length of the extension.

Ref.	Contains	
96801	KM4 to KM7 completes	4,0

96802 COMPLETE KM SPANNER SET

96802



Case with a complete range of KM lock nut removal wrenches. High quality plastic case.



Bullet points

- They practically have the same diameter as the nut.
- It allows extracting in deep and lack of space applications thanks to the length of the extension.

Ref.	Contains	
96802	KM4 to KM10 completes	5,0



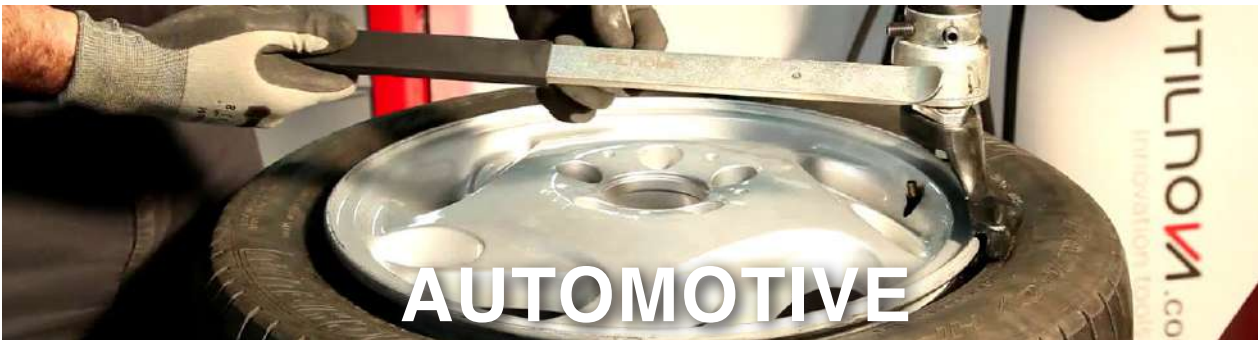
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 Mobil: 603 50 60 77

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 www.falconczech.cz



FORZA



AUTOMOTIVE:

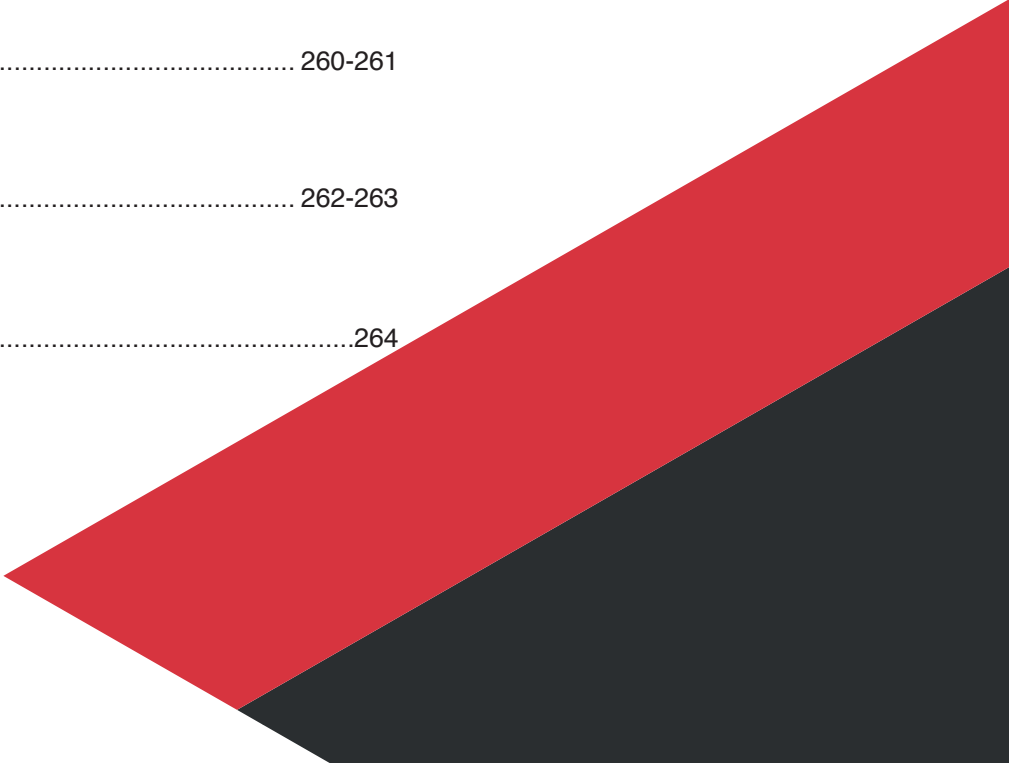
Wide range of tools for vehicle repair and maintenance.

Specialists in filter oil wrenches, injector puller, silent-blocks and ball joints separators.



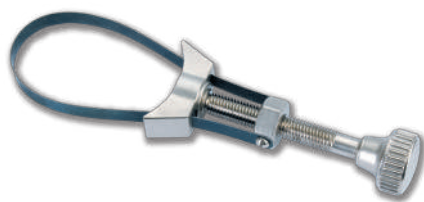
	Band type oil filter wrench216
	Oil filter wrenches 217-218
	Other oil filter wrenches219
	Direct action ball joint separator220
	Fork type ball joint separator221
	Spindle ball joint separator 222-224
	Other ball joint separators 225
	Injector pullers 227-231
	Valve seat cutters 234-237
	Valve seats remover sets238
	Silent-Blocks pullers 239-244

	Hub puller	245-248
	Brake pistons	249-250
	Wheel tools.....	251-252
	Other wheel tools	253-254
	Magnetic plate pullers	255
	Pliers battery terminal.....	256-257
	Cylinder honing sets	257
	Windshield wiper pullers.....	259
	Other tools	260-261
	Body repair tools	262-263
	Diagnostic tools	264



BAND TYPE OIL FILTER WRENCH

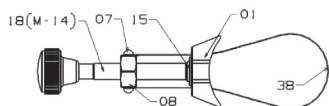
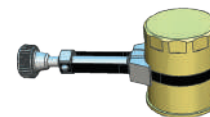
50020



Oil filter wrench with a hardened CrVa steel band
Spare bands are available for each model.

Bullet points

- This spanner is very convenient for disassembling and assembling filters in confined spaces.
- Band replacing possibility with a longer one for larger diameters.



Ref.	Ømax	Ømin	Scales	Spare parts	
				Band	
5002	110	65	0,5	500238	
5003	155	110	0,5	500338	

WATCH VIDEO 



SWIVEL HEAD TYPE OIL FILTER WRENCH

T51G



Oil filter wrench with swivel head type.
PVC coated handle.

Bullet points

- This spanner is very convenient for disassembling and assembling filters in confined spaces.



Ref.	Ømax	Ømin	Scales
T51520	83	73	1,9
T51522	95	87	2,6
T51524	111	101	4,6

OIL FILTER WRENCH SLIDING TYPE

T51M



Narrow-belt filter wrench
For large filters
Use with 1/2" square drive ratchet



Ref.	Ø	Type	Scales
T51510	300	Band	0,4

CHAIN TYPE OIL FILTER WRENCH

T51C



Oil filter wrench chain type.
Maximum capacity 108 mm.
For use with 1/2" square drive ratchet, extension bar or 14 mm spark plug spanner.



Ref.	Ø	Type	Scales
038900	until 150	Chain	0,7
T51501	112	Chain	0,3



OIL FILTER WRENCH WITH ADAPTOR 50000



Puller with high resistance steel jaws including adaptor and valid to work with wrenches, spanners and ratchet.



Bullet points

- It can work either left-hand to release or right-hand to tighten.

Ref.	B- (Diameter) max	B- (Diameter) min	A-(Jaw height)	Square	⚖️	Spare parts
						Adaptor
5000	72	55	31	3/8"	0,4	510046
5001	110	68	37	3/8"	0,8	510146
5001G	142	110	55	1/2"	2,3	510346

OIL FILTER WRENCH TEMPERED JAWS 51000



Puller with high resistance steel jaws. The adaptor for hexagonal head wrench can be purchased separately.



Bullet points

- It can work either left-hand to release or right-hand to tighten.



Ref.	B- (Diameter) max	B- (Diameter) min	A-(Jaw height)	Square	⚖️
5100	72	55	31	3/8"	0,3
5101	110	68	37	3/8"	0,7
5103	142	110	55	1/2"	2,1

MAGNETIC OIL FILTER WRENCH WITH ADAPTOR 5000M0



Puller with high resistance steel jaws including adaptor and valid to work with wrenches, spanners and ratchet.



Bullet points

- It can work either left-hand to release or right-hand to tighten.
- Magnetic for easy filter holding.



Ref.	B- (Diameter) max	B- (Diameter) min	A-(Jaw height)	Square	⚖️	Spare parts
						Adaptor
5000M	72	55	31	3/8"	0,4	510046
5001M	110	68	37	1/2"	0,8	510346
5001GM	142	110	55	3/8"	2,3	510146



MAGNETIC OIL FILTER WRENCH

5100M0



Puller with high resistance steel jaws
The adaptor for hexagonal head wrench can be purchased separately.



Bullet points

- It can work either left-hand to release or right-hand to tighten.
- Magnetic for easy filter holding

Ref.	B- (Diameter) max	B- (Diameter) min	A-(Jaw height)	Square	⚖️
5100M	72	55	31	3/8"	0,3
5101M	110	68	37	3/8"	0,7
5103M	142	110	55	1/2"	2,2

OIL FILTER WRENCH FOR TRUCKS

5000RF



Puller with high resistance steel jaws including adaptor and valid to work with wrenches and 3/8" ratchet. Specially for trucks (Renault and Volvo)



Withstands up to 300Nm of torque.
Fixed non-removable hexagon head

Bullet points

- It can work either left-hand to release or right-hand to tighten

Ref.	B- (Diameter) max	B- (Diameter) min	A-(Jaw height)	⚖️
5001RF	110	68	37	0,8

ECONOMIC OIL FILTER WRENCH

T51



Puller with metal sheet jaws.



Bullet points

- It can work either left-hand to release or right-hand to tighten

Ref.	Ømax	Diameter min	Jaw height	⚖️
T51530	93	62	28	0,4

SQUARE DRIVE ADAPTOR



It adapts the input of the square drive puller to an hexagon socket for conventional wrenches.

Ref.	Inch	Distance between faces (mm)	⚖️
510046	3/8"	20	0,1
510146	3/8"	24	0,1
510346	1/2"	30	0,2



OIL FILTER PLIER

T51870

Oil filters adjustable plier.
For use at heavy vehicles such as tractors.

Bullet points

- Extra long handle for less effort



Ref.	Ømax	Ømin	
T51870	89	45	0,4

SOCKETS SET FOR OIL FILTER

T52000

14 oil filter sockets set
High resistance suitcase.

Bullet points

- The socket allows removing the oil filter in confined spaces.



Ref.	Ømax	Ømin	Square	Reducer	
T52000	100	65	3/8"	1/2" A 3/8"	3,1

OIL FILTER WRENCH SLIDING TYPE

5940

Oil filter wrench sliding type.
It works with a wrench.
Extensible from Ø63 to 97 mm.



Ref.	Ø	
5940	63-97mm	0,4

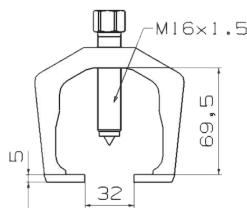


OPEL BALL JOINT SEPARATOR

5071



Suspension direct action ball joint separator.



Ref.	Ball joint diameter	Height	⚖️	Spare parts	
				Spindle	
5071	32	69	0,8	507103	

BALL JOINT SEPARATOR DIRECT ACTION

5500

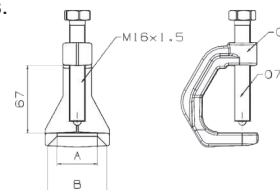


Forged body tempered steel 40 CrMo4.
Tempered steel spindle with fine thread.



Bullet points

- Easy access to ball joints at confined spaces.



Ref.	Ball joint diameter	Height	Height	⚖️	Spare parts	
					Spindle	
5555	36	58	67	0,9	569307	
5557	40	60	67	0,9	569307	
5559	45	62	67	0,9	569307	

BALL JOINT SEPARATOR BEAM TYPE

5650



Ball joint separator direct action.

Cast body.

Spindle with steel ball.

Suitable Suitable for the dismantling steering columns, shock absorbers, suspensions...



Bullet points

- The push puller beam design makes it able to withstand heavy stresses.

Ref.	Ball joint diameter	Distance between jaws	Height	⚖️	Spare parts	
					Spindle	
5651	18	40	35	0,4	565103	
5652	25	50	45	0,6	565203	
5653	29	60	55	0,9	565303	
5654	40	80	80	2,2	565403	
5655	58	80	80	2,1	565403	
5656	46	90	100	2,3	565603	

WATCH VIDEO




LIGHT BALL JOINT SEPARATOR

660360



Ball joint separator direct action.
Suitable for most popular car applications.



Ref.	Ball joint diameter	Height	
660310	19-20	50	0,4

BALL JOINT SEPARATOR LEVEL PROFESSIONAL FORK TYPE




Impact ball joint separator.
Suitable for the dismantling steering columns, shock absorbers, suspensions...



Bullet points

- Its fork-like design allows to be used at confined spaces.

Ref.	Ball joint diameter	Lenght	
5161	18	330	0,9
5162	23	330	0,9
5163	31,5	330	1,1
5164	35	350	1,3

LIGHT BALL JOINT SEPARATOR FORK TYPE


660490



Ball joint separator fork type.
Suitable for the dismantling steering columns, shock absorbers, suspensions...
Fork depth 70mm.

Bullet points

- Its fork-like design allows to be used at confined spaces.

Ref.	Ball joint diameter	Lenght	
080600	19	420	1,1
660490	19	195	0,7

4 POSITIONS BALL JOINT SEPARATOR

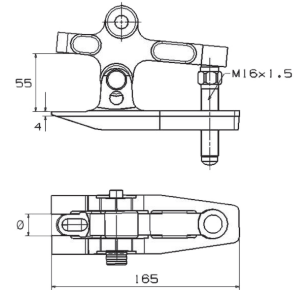
56730




Ball joint separator 4 positions, lever type.

Bullet points

- Its four holes allow to work in four different height positions.



Ref.	Ball joint diameter	Height		Spare parts	
				Spare pin	
5673	19	55	1,9	567340	
5673C	30	55	1,9	567340	

UNIVERSAL BALL JOINT SEPARATOR 5680

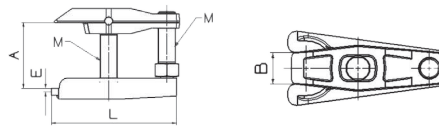
5680




Universal ball joint separator lever type.

Bullet points

- Lowered cross head puller for working in very small spaces.
- Central spindle for height adjustment.



Ref.	Height	Ball joint max. diameter	Ball joint max. diameter		Spare parts
					Spare pin
5680	50	22	18	0,8	568340

UNIVERSAL BALL JOINT SEPARATOR

56810




Universal ball joint separator lever type.

Bullet points

- Central spindle for height adjustment.



Ref.	A (Useful height)	Ball joint max. diameter	Ball joint max. diameter		Spare parts
					Spare pin
5681	50	22	18	0,8	568340
5683	95	32	28	2,6	568340
5685	120	36	32	5,2	14X55



UNIVERSAL BALL JOINT SEPARATOR 5686 **5686**



Universal ball joint separator lever type.

Bullet points

- Central spindle for height adjustment.
- Less effort is necessary because of the cross head bronze nut.
- Tightening is easier due to the position of the screw head.



Ref.	A (Useful height)	Ball joint max. diameter	Ball joint max. diameter	Scales	Spare parts	
					Spare pin	
5686	120	36	32	5,2	14X55	

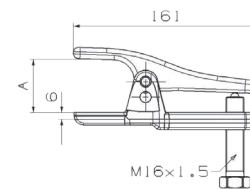
2 POSITIONS BALL JOINT SEPARATOR **5690**



Ball joint separator 2 positions, lever type.

Bullet points

- Two holes allow working in two different height positions.



Ref.	A (Useful height)	Ball joint max. diameter	Ball joint max. diameter	Scales	Spare parts	
					Spare pin	
5691	56	24	20	1,2	569140	

BALL JOINT SEPARATOR 4 POSITIONS WITH EXTENSION **5693**



Ball joint separator 2 positions with extender, lever type.

Bullet points

- Thanks to the extension, it can work up to 4 different height positions.



Ref.	Maximum opening	Ball joint max. diameter	Ball joint max. diameter	Screw resistance	Scales	Spare parts	
						Spare pin	
5693	90	24	20	100kg/mm2	1,6	569140	



BALL JOINT SEPARATOR LEVEL TYPE

5695




Ball joint separator lever type for trucks.

Bullet points

- Reinforced beam and lever for high stress resistance.



Ref.	Ø	Height		Spare parts	
				Spare pin	
5695	36	70	4,9	569540	

HYDRAULIC BALL JOINT SEPARATOR LEVER TYPE

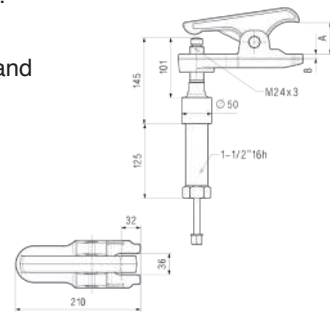
5695H




Ball joint separator lever type for trucks.

Bullet points

- It includes two spindles: Hydraulic and Mechanical.



Ref.	Ø	Height	tura		Spare parts	
					Spare pin	Hydraulic spindle
5695H	35	70	5,5	568140	150120	

MECHANICAL BALL JOINT SEPARATOR FOR TRUCKS

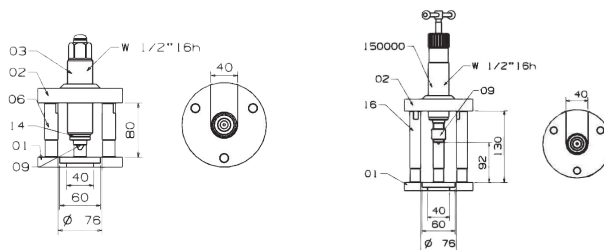
56700




Ball joint separator direct action for heavy cars.

Bullet points

- The internal spindle pin allows hammering during extraction.



Ref.	Ømin	Height	
5670	40	80	4,6
5671	45	92	6,5



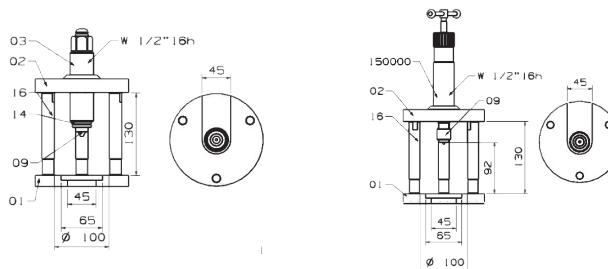
HYDRAULIC BALL JOINT SEPARATOR FOR TRUCKS **5670H0**



Ball joint separator direct action for heavy cars.

Bullet points

- Hydraulic spindle for less effort.



Ref.	Ømin	Height	⚖️	Spare parts
5670H	40	92	5,2	Hydraulic spindle 150000E
5671H	45	120	6,9	150000E

AXIAL BALL JOINT SEPARATOR **5660**



Wrench axial ball joint.
Fast and effective.

Bullet points

- It allows the axial ball joint separator replacement without disassembling the rack and pinion.




Ref.	Internal diameter	⚖️
5660	41	0,4



SPINDLES

Complete spindles for silentblock. It includes 2 nuts.




Ref.	R (Thread)	L (Length)	C (Distance between faces)	
507103	5/8"18h	88	19	0,1
565103	M14 x 1,5	60	17	0,1
565203	M16 x 1,5	60	17	0,1
565303	M18 x 1,5	70	19	0,2
565403	G1/2" x 14h	110	22	0,4
565603	G3/4" x 14h	125	27	0,4
569307	M16X1,5	110	24	0,2

SPARE PINS

Spare pins for ball joint separator.




Ref.	Diameter (mm)	Lenght	
567340	12	65	0,1
568140	8	32	0,1
568340	10	45	0,1
569140	10	60	0,1
569540	20	65	0,2
14X55	14	55	0,1

HYDRAULIC SPINDLE SUPPORT

Ball joint separator adaptor.
It converts the mechanical ball joint separator (5695) into an hydraulic one (5695H).




Ref.	
569515	0,7

INJECTORS PULLER KIT WITH THREADED ADAPTERS 5150



Injector puller set for removing injectors with slide hammer.
With 5 adapters and 3 spanners for removing injectors without damaging them.
For bosch, Delpi and Siemens injectors...



Ref.		Slide hammer	Adapter	Wrench type adapter	Pump pad	Socket adapter with stopped
5150	3,1	4390	515012 515014 515017	515022 515023 515028	515025	515027

INJECTORS PULLER KIT WITH SLIDER HAMMER AND PUSH PULLER 5150C




Injector puller set for removing injectors with slide hammer and push puller.
With 5 adapters and 3 spanners for removing injectors without damaging them.
For bosch, Delpi and Siemens injectors...



Bullet points

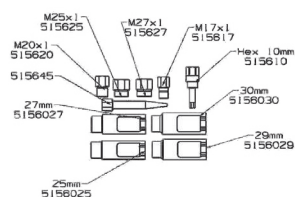
- The push puller can make more force than the slide hammer.


Ref.		Slide hammer	Push puller	Adapter	Wrench type adapter	Pump pad	Socket adapter with stopped
5150C	4,4	4390	5152	515012 515014 515017	515022 515023 515028	515025	515027

EXTENDED PULLERS SET 5150 5155



Master set that includes all necessary tools for injectors extractions without damaging them.
Suitable for bosch, Delpi and Siemens.
Ref. 5150 can be extended with adaptors and hexagonal wrenches.



Ref.		Adapter	Grooved socket	Hexagonal special wrench
5155	1,8	515617 515620 515625 515627 515645	5156025 5156027 5156029 5156030	515610


UNIVERSAL INJECTOR PULLER

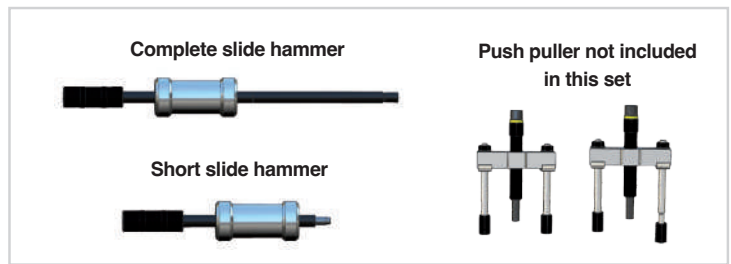
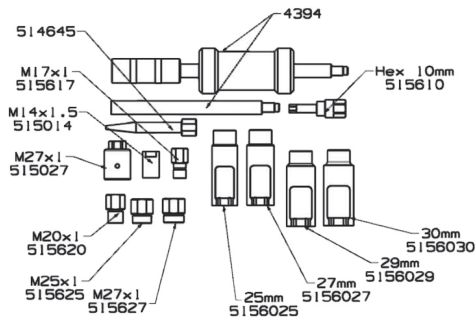
5156



Master set including slide hammer, wrenches and threaded adaptors. Suitable for Bosch, Delphi and Siemens. It is supplied in a plastic box.



Ref.		Slide hammer	Adapter	Grooved wrench	Hexagonal special wrench	Socket adapter with stopped
5156	7,0	4394	515014	5156025 5156027 5156029 5156030	515610	515027
			515617			
			515620			
			515625			
			515627			
			515645			

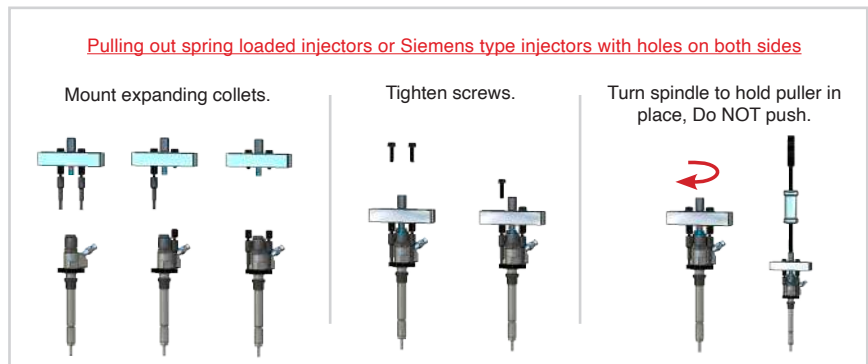



MASTER KIT FOR INJECTORS WITH CLAMPS

5158



Master set of injector pullers with clamps, 5 adapters and 3 wrenches. For Bosch, Delphi and Siemens injectors. Plastic case.

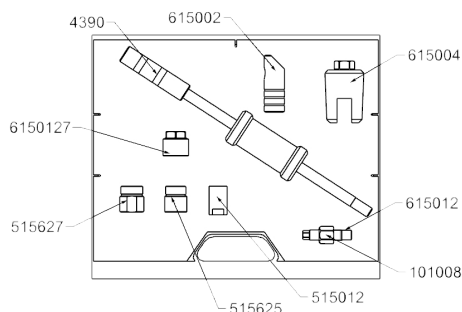



Ref.		Internal collet	Slide hammer	Push puller	Adapter	Wrench type adapter	Pump pad	Tensor + point	Socket adapter with stopped
5158	4,8	4000 4010	4390	5152	515012	515022 515023 515028	515025	515030	515027
					515014				
					515017				

INJECTORS PULLER KIT SERIE 6150 WITH THREADED ADAPTORS 6150



Injector pullers set with slide hammer.
Suitable for bosch, Delpi and Siemens.
Supplied in a plastic box.

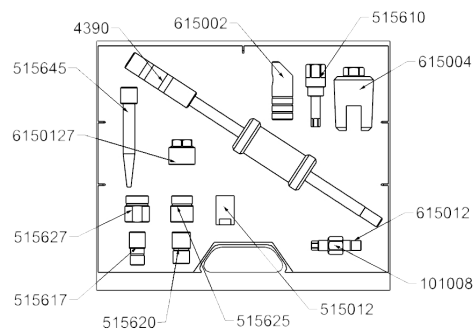



Ref.		Slide hammer	Adapter	Socket
6150	3,9	4390	515012 515625 515627 615002 615012 615027	615004

INJECTORS PULLER KIT WITH SLIDER HAMMER AND PUSH PULLER 6150C



Injector pullers set with slide hammer.
Included, whaser injector extractor.
Suitable for bosch, Delpi and Siemens.
Supplied in a plastic box.

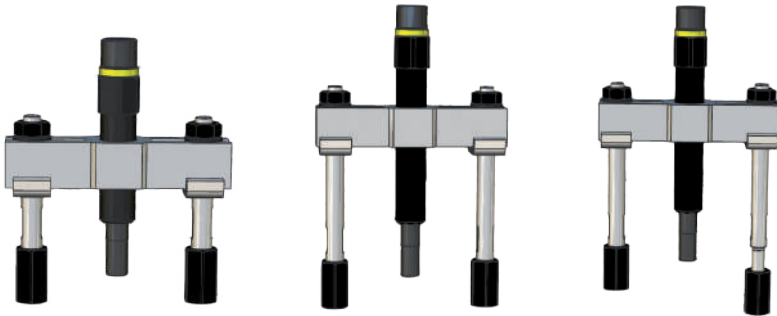



Ref.		Slide hammer	Adapter	Hexagonal special wrench	socket
6150C	0,3	4390	515012 515625 515627 515645 615002 615012 615027	515610	615004

PUSH PULLER FOR INJECTORS

51510

Push puller for removing injectors.
The push puller adapts to the cylinders head for a safer extraction.

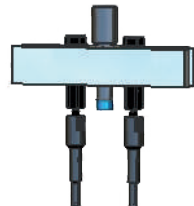



Ref.	Opening	Height	
5151	110	122	1,2
5152	110	62	1,4

PULLER FOR INJECTORS INTERNAL COLLETS TYPE

5154

The set consists of a puller and 2 sets of internal collets: One set includes collets of Ø6 to Ø8 and the other one collets of Ø8 to Ø10.
For Volkswagen and Siemens injector pumps.

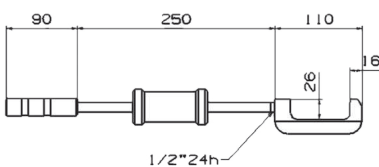
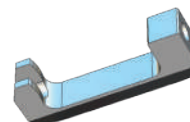



Ref.		Internal collet
5154	0,7	4000 4010

INJECTOR PULLER WITH SLIDE HAMMER

085500

Injector Puller with slide hammer
For CDI type injectors.



Ref.		Slide hammer
085500	1,7	4390

UNIVERSAL INJECTOR EXTRACTORS WITH SLIDE HAMMER H5140



Unique and universal set that allows the removal of moderately seized or rusty injectors without removing the electrical part in the most modern vehicles.


For Common rail or Piezo type injectors for Denso, Siemens bosch and Delpi brands from 1999 to 2017.

The set also includes two adapters, M12 and M14.



Bullet points

- It prevents disassembly of the injector’s electrical connection.
- It fits to the threaded side hole of the fuel inlet that it is extremely strong.

Ref.	Adapters	
H5140	M12 y M14	4,5

PNEUMATIC INJECTOR PULLER 4382



Pneumatic tool that easily allows to remove seized injectors.

It is supplied with set of universal adapters covering Bosch, Delphi, Denso, Siemens CR etc. injectors.

Cylinder, hose and 19 adapters included.

Covers 90% of injectors.




Bullet points

- The pneumatic cylinder that replaces the slide hammer, facilitates the extraction.
- The vibration of the pneumatic cylinder helps to loosen the injector.




WATCH VIDEO  

Ref.	To	B		Adaptor	Adapter
4382	Hose	Pneumatic cylinder	6,7	438008 438010	438214 - 438213
					438212 - 438207
					438218 - 438219
					438220 - 438215
					438216 - 438217
					438222 - 438221
					438224 - 438225
					438226 - 438227
					438228



SPARE BRUSHES



Ref.	
H5130-6	0,1
H5130-7	0,1


ADAPTORS



Ref.	Inlet thread	Outlet thread		Ref.	Inlet thread	Outlet thread	
515012	1/2" 24h	M12 X 1,5	0,1	438207	M14	M8X1	0,1
515014	1/2" 24h	M14 X 1,5	0,1	438218	M14	M27X0,75	0,1
515017	1/2" 24h	M17 X 0,75	0,1	438219	M14	M25X0,5	0,1
515617	1/2" 24h	M17 X 1	0,1	438220	M14	M29X1	0,1
515620	1/2" 24h	M20 X 1	0,1	438215	M14	M27x1	0,1
515625	1/2" 24h	M25 X 1	0,1	438216	M14	M25X1	0,1
515627	1/2" 24h	M27 X 1	0,1	438217	M14	M27X1	0,1
515645	1/2" 24h	Como arandela	0,1	438222	M14	M14X1,5	0,1
615002	1/2" 24h	M12 X 1,75	0,1	438221	M14	M26X0,75	0,1
615012	1/2" 24h	M12 X 1,50	0,1	438224	M14	M16x1,5	0,1
615027	1/2" 24h	M27 X 1	0,1	438225	M14	M16X1,5	0,1
438214	M14	M20X1	0,1	438226	M14	M18X1,5	0,1
438213	M14	M18X0,75	0,1	438227	M14	M22X1,5	0,1
438212	M14	M17X1	0,1	438228	M14	M20X1,5	0,1


ADAPTOR WRENCH TYPE



Ref.	Inlet thread	
515022	1/2" 24h	0,1
515023	1/2" 24h	0,1
515028	1/2" 24h	0,1

HEXAGONAL GROOVED SOCKET



Ref.	Hexagon	
5156025	25mm	0,1
5156027	27mm	0,1
5156029	29mm	0,1
5156030	30mm	0,1


HEXAGONAL SPECIAL WRENCH



Ref.	Hexagon	
515610	10mm	0,1

BRAKE PAD



Ref.	
515025	0,1


SOCKET ADAPTER WITH STOPPER



Ref.	Inlet thread	Outlet thread	
515027	1/2" 24h	M27 X 1	0,1


CONICAL IMPACT SOCKET



Ref.	
615004	0,1

TENSIONER + EXTRACTOR POINT INJECTORS COLLETS



Ref.	
515030	0,1

UNIVERSAL INJECTOR SEAT CLEANING

H5130



Injector holes cleaning after the extractions is extremely important. This device will allow the technician to perform a perfect job before installing the new injector.

The set includes:

- 2 metal brushes Ø 20mm and 25mm for injector hole cleaning.
- 2 front brushes for injector seat cleaning.
- 1 front brush extension.
- 2 seal plugs to close the injector hole before cleaning.
- 1 seal plug holder to place the sandpapers for cleaning the seat.
- A sanding kit to clean the seat.



Ref.	
H5130	0,6

4 CUTTER SEATS SET

T64901



A set of 4 cutters for cleaning injector seats with centering pilot and T handle.

They are used to clean charcoal deposits from injector seats while changing injectors.

It helps to avoid blow-back problems due to poorly seated injectors. It contains:

- 1 T handle square drive 3/8" length 135 mm.
- 1 injector guide Ø7 mm.
- 1 2,5 mm allen wrench of 2,5mm.
- 1 Flat seat cleaner cutting Ø17 mm and guide Ø17mm for BMW, PSA and Renault.
- 1 Flat seat cleaner cutting Ø17 mm and guide Ø21mm for Mercedes Benz CRD.
- 1 Angular seat cleaner cutting Ø17 mm guide Ø21 mm Fiat and Iveco.
- 1 Flat seat cleaner cutting Ø15 mm and guide Ø17 mm.



Ref.	Type	
T64901	UNIVERSAL	1,1

UNIVERSAL GLOW PLUG TIPS PULLER

H5120



M8, M9 and M10 glow plug tip remover.

It allows easy removal of broken glow plug tips.

Contains 4 guides with self-centering taps of:

M8x1 - M9x1 - M10x1 - M10x1.25

The length of the tools avoid drilling the cylinder head.

In the event that the tips are stuck in the cylinder head and cannot be removed, we have an ejector that pulls the tip into the cylinder. We have a remover that pulls the tip from the cylinder in case the tips are stuck in the cylinder head and cannot be removed. Magnet available for retrieve it from the injector.

Bullet points

- Guide taps and extractor are perfectly centered to the heater plug.
- The tool length avoids drilling or tapping the cylinder head.
- Slide hammer for tip extraction.



Ref.	
H5120	1,5



VALVE GRINDER 3004



It easily grinds most valves using a bench vice.
30° and 45° angles.
Spare blades available.

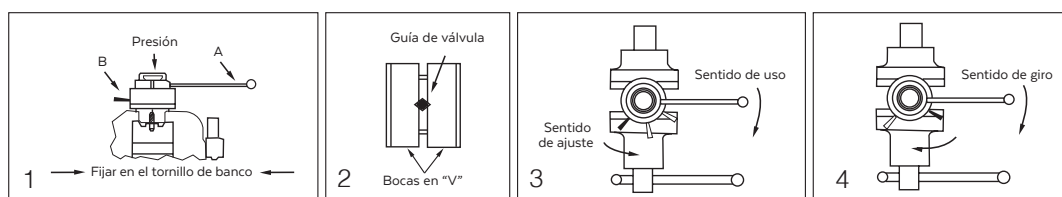


Bullet points

- Grinds the valve to the exact angle.
- It is not necessary to grind the valve with a suction cup.



Ref.	Scales	Spare parts
		Cuchilla
3004	1,0	258



VALVE SEAT CUTTERS 110S

Valve seat milling cutters.
Other cutter sizes on request.



Bullet points

- Hardened steel blades.
- It grinds the main angle and the two complementary ones of each seat.
- The three grinding angles allow the seats to be raised and lowered to the correct width.



Ref.	Ø	Angles	Scales
110	24,8	46	0,1
111	25,4	60	0,1
123	24,8	31	0,1
128	31,8	30x46	0,1
203	31,5	31x46	0,1
212	31,6	15x75	0,1
213	38	15x60	0,1
217	38	15x75	0,1
273	31,6	15x70	0,1
275	38	46	0,1
285	31,6	46	0,1
288	50,8	15x60	0,2
292	44,5	15x60	0,1
602	31,6	31	0,1
622	38	31x46	0,1
628	38	31	0,1
642	44,5	31x46	0,1
652	50,8	31x46	0,2



VALVE SEAT CUTTERS KITS

N-70



Equipments for grinding valve seats in cars and trucks.

Bullet points

- Each set contains cutters, guides and accessories for a perfect seat grinding.



Ref.	Use	Ømin	Ømax	⚖	Spare parts				
					Guides	Cutters	Accessories		
N70	Moto	18	27	0,9	100-4,5	110	246		
					100-5				
					100-5,5				
					100-5,52				
					100-6				
100-6,6	123	503-1							
505									
N100			Coche	21	42	0,9	150-7	275	160
150-8									
150-8,5									
N300	Coche	21.	42	1,3	150-7	213	160		
					150-8				
					150-8,5				
					273				
N400	Coche	21	42.	1,4	150-7	203	160		
					150-8				
					150-8,5				
					150-9				
					622				
N500	Camión	35	55	1,8	200-10	288	160		
					200-11				
					200-12				
					200-9				
					652				
292	642	505							
246									
246									
505									
505									

PILOT FOR VALVE SEAT CUTTERS

100-40



The guides are inserted into the valve seat to centre the cutter. The 100 series are fixed-size guides and the rest are expandable guides that perfectly fit in the valve bore.



Ref.	Ø	Lenght	⚖
100-4	4	100	0,1
100-4,5	4,5	100	0,1
100-5	5	100	0,1
100-5,5	5,5	100	0,1
100-5,52	5,52	100	0,1
100-6	6	100	0,1
100-6,6	6,6	100	0,1
100-7	7	100	0,1
150-6	6	150	0,1
150-6,5	6,5	150	0,1
150-7	7	150	0,1
150-7,5	7,5	150	0,1
150-8	8	150	0,1
150-8,5	8,5	150	0,1
150-9	9	150	0,1
150-9,5	9,5	150	0,1
200-10	10	200	0,1
200-10,5	10,5	200	0,1
200-11	11	200	0,1
200-11,5	11,5	200	0,1
200-12	12	200	0,1
200-12,5	12,5	200	0,1
200-8	8	200	0,1
200-8,5	8,5	200	0,1
200-9	9	200	0,1
200-9,5	9,5	200	0,1



ACCESORIES & BOXES 505S

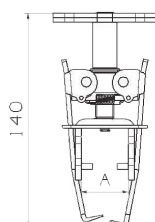


All necessary accessories for grinding valve seats.



Ref.	Description	⚖️
160	6 valve box cutters	0,5
246	Hexagonal screwdriver 5/64" + hexagon socket spanner 3/32" + pin + wiper blade	0,1
250	Blade 3/8"	0,1
251	Blade 1/2" from 0 to 46 degrees	0,1
253	Blade 5/16"	0,1
254	Blade 3/4"	0,1
258	HVR carbide blade	0,1
303	3 cutter box	0,4
497	11 cutter box	1,3
505	T Wrenche	0,1
3003	Valve seat handle	0,4
250LC	Blade 3/8" hard seats	0,1
251LC	Blade 1/2" hard seat	0,1
503-1	T motorcycle wrench adapter	0,1

VALVE MOUNTING EXTRACTOR 50210



This tool is suitable either for mounting or removing engine valves.

Bullet points

- It allows to keep the spring compressed easily, facilitating the assembly of the two retaining wedges.



Ref.	spring ø	⚖️
5021	20-30	0,8
5022	30-40	0,8

VALVE SPRING COMPRESSOR 039500



Valve spring compressor for multivalve engines.
 039501 Adapter Ø outside 30 Ø inside 21
 039502 Adapter Ø outside 25 Ø inside 18

Bullet points

- Large and reinforced steel frame
- Supplied with two adaptors



Ref.	Max opening	Min opening	Arm length	⚖️	AdaptersAdaptador
039500	142	35	150	2,5	039501 039502 039505



VALVE SPRING COMPRESSOR

660430

Valve spring compressor for cylinder heads with overhead valves. Specific for small engines.




Bullet points

- The open clamping design allows good visibility for hard-to-reach applications.

Ref.	Max opening	Min opening	Arm length	
660430	129	63	158	2,0

ADAPTORS FOR VALVE COMPRESSORS



Ref.	External Diameter	Internal diameter	
039501	30	21	0,1
039502	25	18	0,1
039505	21	15	0,1

VALVE GRINDERS STICK

660902


Valve grinding stick. Sold in packs of 10.



Bullet points

- Highly effective suction cup, strong adhesion to the valve



Ref.	Ø	Diameter in dilated state		Spare parts
				Ventosas
660902C	32	41	0,4	6609021C
660903C	22	28	0,4	
660904C	19	24	0,2	
660905C	19/22	24/28	0,5	

TORQUE ANGLE GAUGE


800700

Indispensable tool for tightening bolts to the specified angle by car manufacturers. Indicator: set to 0 before use.



Bullet points

- Anti-reflective and oil-resistant scale surface.

Ref.	Square	
800700	1/2"	0,4
800750	3/4"	0,8

SILENT-BLOCK PULLERS SET 5193N




Silentblocks puller and other types of bushings and bearings.
It contains:
20 tubes diameter from 34 to 72mm
4 spindles with nuts and bearings: M10, M12, M14 and M16 and 8 different caps.



Bullet points

- The spindle bearings are protected against dirt.
- Suitable for both mounting and dismounting of bushings and silentblocks.



Ref.		Spindle	Cup	Shell
5193N	15,8	519830 519831 519832 519834	519041	5190034 - 5190036
			519042	5190038 - 5190040
			519043	5190042 - 5190044
			519044	5190046 - 5190048
			519045	5190050 - 5190052
			519046	5190054 - 5190056
			519047	5190058 - 5190060
			519048	5190062 - 5190064
				5190066 - 5190068
				5190070 - 5190072

SET OF SILENTBLOCK EXTRACTORS WITH SLOTTED TUBES 5198

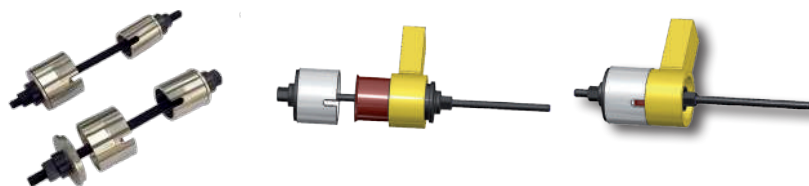



Silentblocks puller and other types of bushings and bearings.
It contains:
20 tubes diameter from 33 to 72mm
4 spindles with nuts and bearings: M10, M12, M14 and M16 and 8 different caps.



Bullet points

- The spindle bearings are protected against dirt.
- Suitable for both mounting and dismounting of bushings and silentblocks.
- Thanks to the slot, the movement of the silentblock can be observed during removal.



Ref.		Spindle	Cup	Shell
5198	15,8	519830 519831 519832 519834	51983438	5198034 - 5198036
			51983640	5198038 - 5198040
			51984246	5198042 - 5198044
			51984448	5198046 - 5198048
			51985054	5198050 - 5198052
			51985256	5198054 - 5198056
			51985862	5198058 - 5198060
			51986064	5198062 - 5198064
			51986670	5198066 - 5198068
			51986872	5198070 - 5198072

EXTENDED SILENTBLOCK PULLER SET

5198S



Silentblocks puller and other types of bushings and bearings.

It contains:

21 tubes diameter from 34 to 72mm

4 spindles with nuts and bearings: M10, M12, M14 and M16 and 11 different caps.


It includes 3 pushers of diameter 61,67,5 and 74mm and one M10 screw with adapter



Bullet points

- The spindle bearings are protected against dirt.
- Suitable for both mounting and dismounting of bushings and silentblocks.
- Thanks to the grooving, the movement of the silentblock can be observed during removal.



Ref.		Spindle	Shell	Cup
5198S	16,9	519830 519831 519832 519834	5190033 - 5198034	51983438
			5198036 - 5198038	51983640
			5198040 - 5198042	51984246
			5198044 - 5198046	51984448
			5198048 - 5198050	51985054
			5198052 - 5198054	51985256
			5198056 - 5198058	51985862
			5198060 - 5198062	51986064
			5198064 - 5198066	51986670
			5198068 - 5198070	51986872
			5198072	51983340

VAG FRONT WHEEL HUB REMOVAL SET

5191



Silent-Block pullers set for VAG front wheels, included in the set ref.5198S.

It contains:

complete spindle M12.

Washer Ø25mm.

Adaptors M10 - M12.


Mounting plate Ø74mm.

O-ring pusher Ø61mm.

Screw M10x80.

Cap.



Ref.		Spindle	Cup	Pusher
5191	1,9	519831	519045	519057 519056



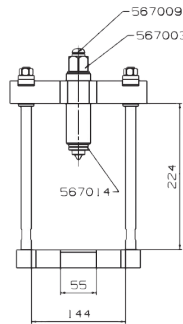
SILENT-BLOCK PUSH PULLERS 5192


Customized push puller designed for working with silentblocks pullers. It can also work as a bolt puller.



Bullet points

- Mechanical spindle that allows hammering to facilitate the extraction.



Ref.	Opening	Height	
5192	144	224	6,9

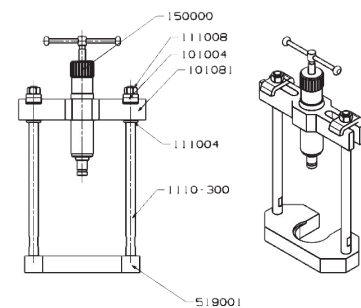
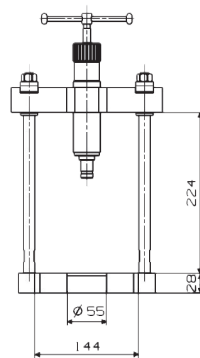
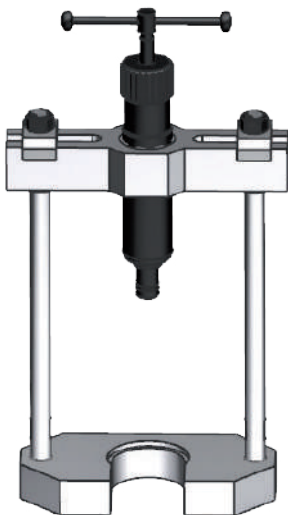
HYDRAULIC PUSH PULLER FOR SILENTBLOCKS 5192H

Customized designed push puller for silentblocks pullers.



Bullet points

- 8 ton hydraulic spindle.
- The puller's body allows to support the silent-block tubes.



Ref.	Opening	Height	
5192H	144	224	6,6

EXTENSION FOR SILENT BLOCK PULLER SETS

5195



It allows to increase the capacity of the following sets: 5193N, 5198 and 5198S.


It includes:

5194 push puller, 10 pushers and 8 tubes.

Bullet points

- For silent-blocks or large diameter bushings.
- up to 92mm.
- Very useful when the bushing is placed in difficult access location.



Ref.		Push puller	Shell	Pusher
5195	13,1	5194	5190033 - 5190074 5190076 - 5190078 5190080 - 5190082 5190084 - 5190086	519057 - 519067 519076 - 519078 519080 - 519082 519084 - 519086 519088 - 519090

PUSH PULLER FOR SILENT BLOCK PULLER 5195

5194



Push puller for silentblocks pullers.

Bullet points

- For silent-blocks or large diameter bushings
- up to 92mm.
- Very useful when the bushing is placed in difficult access location.




Ref.	Opening	Height	
5194	30	92	0,9

COMPLETE SPINDLE

Complete spindles for silentblock.
Includes 2 nuts.



Ref.	R (Thread)	L (Length)	
519830	M10	340	0,5
519831	M10	340	0,6
519832	M10	340	0,7
519834	M10	340	0,9

CAPS



Ref.	Ø	Cup		Ref.	Ø	Cup	
519041	72	A Cup	0,3	51984246	42-46	4246	0,1
519042	74	B Cup	0,3	51984448	44-48	4448	0,1
519043	76	C Cup	0,4	51985054	50-54	5054	0,2
519044	78	D Cup	0,4	51985256	52-56	5256	0,2
519045	80	E Cup	0,4	51985862	58-62	5862	0,3
519046	82	F Cup	0,4	51986064	60-64	6064	0,3
519047	70	G Cup	0,3	51986670	66-70	6670	0,3
519048	67.6	H Cup	0,3	51986872	68-72	6872	0,4
51983340	33-40	3340	0,1				
51983438	34-38	3438	0,1				
51983640	36-40	3640	0,1				

TUBES



Silentblock tubes.

Ref.	External Diameter	Internal diameter	Cups		Ref.	External Diameter	Internal diameter	Cups	
5190033	36	33	9078	0,2	5190082	82	92	9088	0,6
5190034	44	34	A-C	0,3	5190084	84	94	9090	0,6
5190036	46	36	B-D	0,3	5190086	86	96	3640	0,6
5190038	48	38	C-E	0,3	5198034	34	44	3438	0,3
5190040	50	40	D-F	0,3	5198036	36	46	3640	0,3
5190042	52	42	E-H	0,3	5198038	38	48	3438/3640	0,3
5190044	54	44	F-G	0,3	5198040	40	50	3640/3340	0,3
5190046	56	46	A-H	0,3	5198042	42	52	4246/3438	0,3
5190048	58	48	B-G	0,4	5198044	44	54	4448/3640	0,3
5190050	60	50	A-C	0,4	5198046	46	56	4246	0,4
5190052	62	52	B-D	0,4	5198048	48	58	4448	0,4
5190054	64	54	C-E	0,4	5198050	50	60	5054/4246	0,4
5190056	66	56	D-F	0,4	5198052	52	62	5256	0,4
5190058	68	58	E-H	0,4	5198054	54	64	5054	0,4
5190060	70	60	F-G	0,4	5198056	56	66	5256/4448	0,4
5190062	72	62	A-H	0,4	5198058	58	68	5862/5054	0,4
5190064	74	64	B-G	0,5	5198060	60	70	6064/5256	0,4
5190066	76	66	A-C	0,5	5198062	62	72	5862	0,5
5190068	78	68	B-D	0,5	5198064	64	74	6064	0,5
5190070	80	70	C-E	0,5	5198066	66	76	6670/5862	0,5
5190072	82	72	D-F	0,5	5198068	68	78	6872/6064	0,5
5190074	74	84	9080	0,5	5198070	70	80	6670	0,5
5190076	76	86	9082	0,5	5198072	72	82	6872	0,5
5190078	78	88	9084	0,6					
5190080	80	90	9086	0,6					

PUSHER

Silentblock pushers.



Ref.	Ø	Automotive brand	⚖️	Ref.	Ø	Automotive brand	⚖️
519056	74	VAG	0,6	519082	82	GENERAL	0,6
519057	61	VAG	0,2	519084	84	GENERAL	0,7
519067	67.5	BMW	0,2	519086	86	GENERAL	0,7
519076	76	GENERAL	0,6	519088	88	GENERAL	0,8
519078	78	GENERAL	0,6	519090	90	GENERAL	0,8
519080	80	GENERAL	0,6				

UNIVERSAL HUB REMOVAL SET

5180



Specially designed to remove wheel hubs and retract the end of the wheel bearing. It contains 8 sets of adaptors. Supplied with central hydraulic spindle.



Bullet points

- Beam designed for 4, 5, 6 or 7 screws.

Ref.	Maximum opening	Minimum opening	⚖️	Spindle	Male adaptor	Female adaptor
5180	153mm	74mm	10,2	101031	11103122 11103124 11103142 11103162 11103202	11104122 11104124 11104142 11104162

UNIVERSAL WHEEL HUB PULLER WITH SLIDE HAMMER

5180C

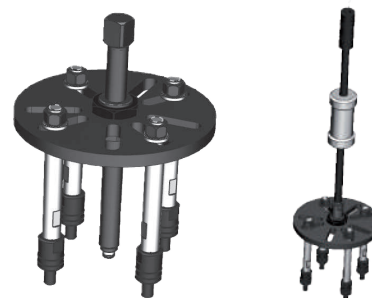


Specially designed to remove wheel hubs and retract the end of the wheel bearing. It contains 8 sets of adaptors. Supplied with central hydraulic spindle and slide hammer.



Bullet points

- Beam designed for 4, 5, 6 or 7 screws.
- The 5kg slide hammer allows for fast and efficient extraction.



Ref.	Maximum opening	Minimum opening	Ømin	Ømax	⚖️	Slide hammer	Spindle	Male adaptor	Female adaptor
5180C	153mm	74mm	74	154	18,6	4396	101031	11103122 11103124 11103142 11103162 11103202	11104122 11104124 11104142 11104162

UNIVERSAL HYDRAULIC HUB PULLER SET

5180H




Specially designed to remove wheel hubs and retract the end of the wheel bearing.
It contains 8 sets of adaptors.
Supplied with central hydraulic spindle.



Bullet points

- Beam designed for 4, 5, 6 or 7 screws.
- Hydraulic system: faster extraction with less effort.



Ref.	Max opening	Min opening		Hydraulic spindle	Male adaptor	Female adaptor
5180H	153	88	7,5	150120	11103122	11104122
					11103124	11104124
					11103142	11104162
					11103162	

WHEEL HUB PULLER PLATE TYPE

5460



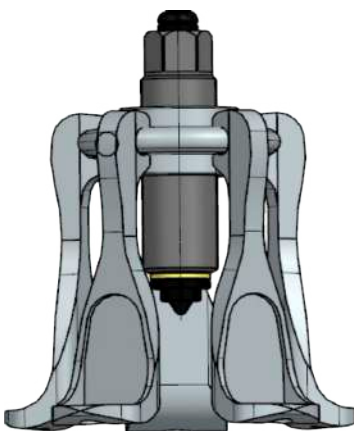
Specially designed to remove wheel hubs of 4 and 6 screws.
Slide Hammer included.



Ref.	Ømax	Ømin	
5460	150	100	3,4

MECHANICAL HUB PULLER

51530




This extractor allows to extract the hubing using the same screws that the hubing itself has to be extracted.
We supply this extractor with 3, 4 or 5 legs.



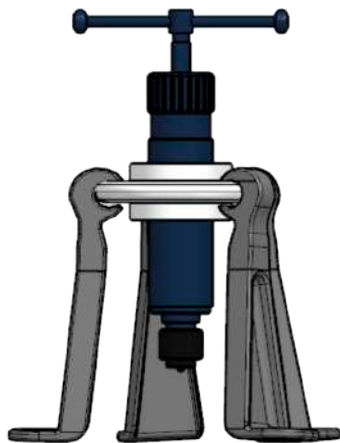
Bullet points

- The rotation of the legs allows the puller to be placed in different positions to adjust to the hub.
- The reinforced spindle with spindle, extension point and bronze washer allows hammering.

Ref.	Height	Opening	R (Conection)		Spare parts	
					Jaw	Spindle
5513	140	250	1 1/2" UN 16H	3,6	550305	567030
5514	140	250	2 1/2" UN 16H	4,1	550305	567030
5515	140	250	3 1/2" UN 16H	4,5	550305	567030

HIDRAULIC HUB PULLER

5113H0



This extractor allows to extract the hubing using the same screws that the hubing itself has to be extracted. We supply this extractor with 3, 4 or 5 legs.



Bullet points

- The rotation of the legs on its body allows the legs to be positioned in different positions to fit the hubing.
- Hydraulic system: faster extraction less effort.

Ref.	Height	Opening	R (Conection)	⚖️	Spare parts	
					Hydraulic spindle	Jaw
5513H	140	250	1 1/2" UN 16H	3,6	150000E	550305
5514H	140	250	2 1/2" UN 16H	4,1	150000E	550305
5515H	140	250	3 1/2" UN 16H	4,5	150000E	550305

JAW FOR HUB PULLER

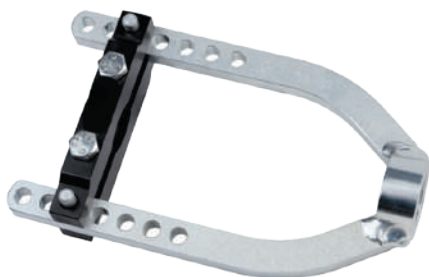


Ref.	Total jaw length (L)	Jaw width (R)	Thickness	Hole	⚖️
550305	161	44	6.5	ø19	0,4

CV JOINT PULLER


80900

Specially designed puller to remove CV joints on front-wheel drive cars. No need to use a hammer as it reduces the risk of damage to the drive shaft.



Bullet points

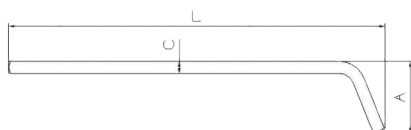
- It prevents removing the entire front axle.
- Approved as an official tool by the VW Group.

Ref.	Type	
080900	Universal	2,1

DRIVE SQUARE FOR OIL CUP


51820

Square wrenchs specially designed to remove the oil cup.



Bullet points

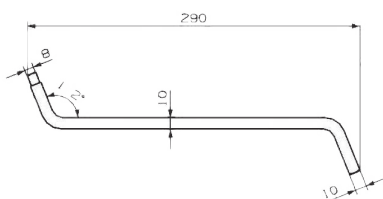
- They do not damage the oil cap of the car.

Ref.	C	To	L	
5182	8	48	221	0,1
5184	10	50	241	0,2

DOUBLE SQUARE WRENCH FOR OIL CUP


5186

Square wrenchs specially designed to remove the oil cup.



Bullet points

- They do not damage the oil cap of the car.
- 8 and 10mm drive square.

Ref.	C	To	L	
5186	8 and 10	50	290	0,3

VACUUM BRAKE BLEEDING HIT

H6010



Complete brake bleeding kit

It contents:

Vacuum gun and brake fluid filling bottles.

Manual nozzle with reservoir

Self-adjusting nozzle with reservoir

Bullet points

- It uses compressed air to generate a deep suction



Ref.		Spare parts
H6010	0,8	Gun H6011

VACUUM GUN AND RESERVOIR

H6011



Vacuum brake bleeding gun and brake refill bottle.



Ref.	
H6011	0,3

BRAKE BLEEDING KIT 1/2I LITRE

H6100



1/2 litre bottle vacuum gun with overflow valve and universal rubber connector.

Bullet points

- It uses compressed air to generate a deep suction and evacuate fluid and air from the hydraulic brake system.
- Hanging hook.



Ref.	Capacity	Hose dimension	
H6100	0,5l	500mm	1,2

MANUAL BRAKE BLEEDER

660500



Manual brake bleeder with non-return valve.

Non return valve ensures that the air does not return back into the system.

Capacity 50cl.



Ref.	Material	
660500	Plastico	0,1

PNEUMATIC BRAKE CALIPER REWIND TOOL SET


H6320



Set of pneumatic gun and 15 adapters.
For most European and Japanese cars (especially for brakes of the brands Ate, Bendix, Delco...).

**Bullet points**

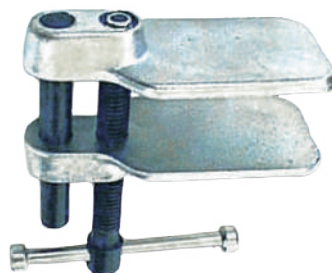
- The pushing force is provided by compressed air (from 5 to 8 bar).
- The right-hand or left-hand turn is carried out by the handle

Ref.	
H6320	3,1



BRAKE PISTONS SPREADER


H6305



This tool allows to reposition the brake pistons to facilitate the brake pads replacement.
Specially designed for Ate, Bendix, Delco...

**Bullet points**

- Specially designed jaws to fit in the space of worn pads on either side of the disc.

Ref.	Working length	
H6305	70mm	0,9

MITYVAC VACUUM GAUGE

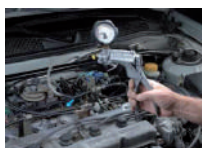
H1395




Pressure and vacuum tool.
Common applications:
Emission control system testing (EGR, RCV, BPV).
Turbo testing.
Hydraulic clutch bleed and pressure/vacuum brake bleeding
Ignition system diagnostics.
Fluid transfer / evacuation.

**Bullet points**

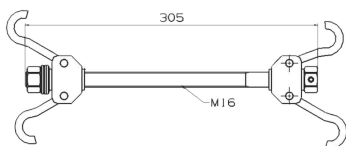
- The Kit includes: Metal hand pump MI8510.
- The only hand pump that provides and measures pressure or vacuum with the same performance and accuracy (from 980mBar to +4Bar).
- Large reservoir (480ml) with quick coupler.
- Other accessories.



Ref.	Pressure	Vacuum	Deposit	
H1395	4 Bar	1 Bar	450ml	2,4

COIL SPRING COMPRESOR CENTRAL SPINDLE

5091



Extractor for vehicle suspensions.
It allows to contract easily the damping springs.

Bullet points

- Suitable for keeping the springs compressed.



Ref.	Type	Opening	
5091	Garras	305	2,5

COIL SPRING COMPRESOR DISC TYPE

5092



Extractor for vehicle suspensions.
It allows to contract easily the damping springs.

Bullet points

- Suitable for keeping the springs compressed.



Ref.	Type	Opening	
5092	Discos	570	4,7

TWO-ARM SUSPENSION SPRING EXTRACTOR

56400




Vehicle suspension pullers.
2 arm set

Bullet points

- Suitable for keeping springs compressed.
- It can work with the damper mounted.



Ref.	Opening	
5640	200	2,7
5641	300	2,9
5642	400	3,3

LOCKING LOG NUT REMOVAL KIT

H5020



Locking log nut removal kit.
This tool is the definitive solution for removing locknut bolts.
Remove de most difficult locking log nuts.
Valid for all brands
Also removes when the tab screw is damaged.

Bullet points

- Valid for all brands.
- 8,5mm hard metal.
- Professional and fast.



Ref.	Guides	Puller	Drills	
H5020	M8-M9-M10-M10x1,25	4	2	2,7



WHEEL VALVE KIT RUD200



Set that includes one valve core remover with tightening torque limiter and wheel valve puller. Supplied in a cardboard box.



Bullet points

- It allows the removal of both the valve and the wheel valve core.
- The tightening torque is limited with audible signal up to 0.4Nm.

Ref.		Valve core remover	Valve assemblies
RUD200	0,4	RUD230	RUD235

VALVE CORE PULLER RUD230



The tyre vale core remains tighten to the tool thanks to an effective fastening system with a confirmation click. It avoids losing the valve core and allows placing it comfortably.



Bullet points

- Suitable for dismounting the valve core.

Ref.	
RUD230	0,1



VALVE CORE REMOVER WITH TORQUE RUD235



The tyre vale core remains tighten to the tool thanks to an effective fastening system with a confirmation click. Adaptable to all types of valves, specially to the electronic TPMS ones, avoiding damaging the valve while tightening the valve core. The valve core remains attached to the tool. Standard torque wrench: 0.40 Nw/m also available in (0.25 – 0.40 - 0.45 Nw/m)



Bullet points

- The tightening torque is limited with audible signal up to 0.4Nm.
- Suitable for removing the valve and the wheel valve core.

Ref.	
RUD235	0,1



WHEEL VALVE PULLER RUD245



Tyre valve removal tool. Tilting grip jaw made of hardened steel.



Bullet points

- Rubber and nylon support point prevents damage to aluminium rims
- It always gets the right angle for a quick and effortless valve removal
- Compatible with TPMS valves.

Ref.	
RUD245	0,3



NYLON NAILS

RUD42040


Universal Trimmed nylon head for tyres demounting. Efficient for tyre changers of all types, automatic and swing-armed ones.



Bullet points

- Made of very strong resin
- It does not damage the aluminium rims.



Ref.	Machine	Material	Finishing	
RUD4204	Oscillant	Nylon	With slot	0,2
RUD4205	Oscillant	Nylon	Large support	0,2
RUD4206	All types	Nylon	Short support	0,3

QUICK CONNECTORS

RUD4280


Universal kit to work with the same tyre change using a plastic head for aluminium rims and an iron head for steel rims. It comprises three safety systems.



Bullet points

- With a simple twist we change the iron nail for the nylon one.



Ref.	Ø		Spare parts
			Plastic head
RUD428	28	1,7	RUD4206
RUD429	29	1,7	RUD4206
RUD430	30	1,7	RUD4206
RUD435	35	1,7	RUD4206
RUD499	Cono	1,7	RUD4206

WHEEL RIM STICKER CLEANER

RUD590


Tool that easily removes the remaining adhesive from the weights glued the aluminum rims.



Bullet points

- It does not damage the rims.



Ref.	
RUD590	0,1





TYRE AIR PRESSURE TESTER

32800



Tool for measuring tire pressure.
Up to 2,5bars.



Ref.	
032800	0,1

TYRE PRESSURE TESTER



Tool for measuring tire pressure.
With dial indicator.
Units: kg/cm² and lb/sq in.
Pressure measure from 0,5 to 4,5 kg/cm².



Ref.	
T61100	0,1

TYRE BEADING RING

RUD10130



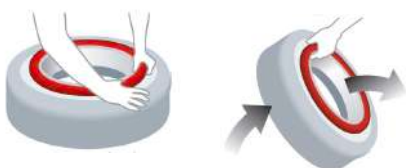
A necessary tool for inflating the tyres when they do not adjust to the rim. It fills the existing space between the rim and the tyre, thus avoiding air from blowing off and allowing, in this way, a fast and safe inflation.

**Bullet points**

- Made of natural rubber and thanks to its elasticity allows to work with various sizes.

Ref.	Ø	Material	
RUD1013	10 A 13"	Rubber	1,0
RUD1418	14 A 16"	Rubber	1,2
RUD1921	19 A 21"	Rubber	1,5
RUD2224	22,5 A 24"	Rubber	2,0

WACTH VIDEO



VULCANISED TYRE LEVER

RUD120



Vulcanized tyre lever that improves tire mounting and dismounting.

Bullet points

- It does not scratch aluminium rims.
- It decreases the chance of breaking a beading ring.
- Improved angles to push the tyre more effectively without releasing the tyre.



Ref.	Lenght	Material	⚖️
RUD120	600	Steel	0,7

WATCH VIDEO



TYRE CHANGER AND REMOVER

RUD350



Auxiliary tool for the assembly and dismantling of tyres. Highly recommended for very low profile and RUN FLAT tyres.

Bullet points

- Steel beam coated with vulcanised rubber to avoid damaging aluminium rims.
- Very suitable for mounting tyres on rims with TPMS valves.



Ref.	⚖️
RUD350	0,4

MANUAL IMPACT SPANNER FOR PULLEYS

H6252



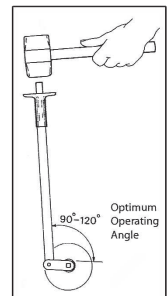
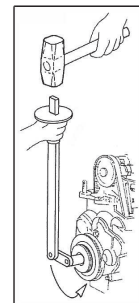
Allows to remove and replace the rocker arms without disassembling the radiator. Used with hammer.

Bullet points

- No compressed air required.



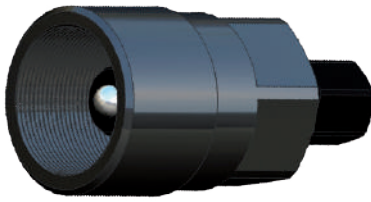
Ref.	⚖️
H6252	2,4





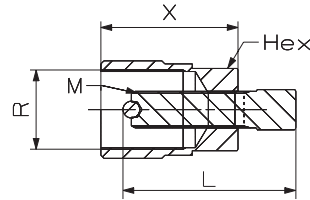
MAGNETIC PLATES EXTRACTOR SET FOR EXTERNAL THREAD 5224IN1000

Magnetic plate extractor with internal thread.



Bullet points

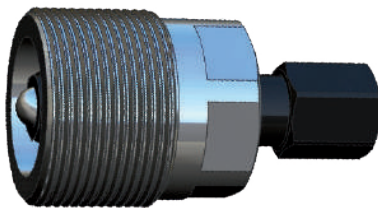
- Spindle end contains a ball to protect the shaft.



Ref.	R-Thread	Useful length	⚖️
5224IN100	M24X100	49	0,2
5226IN100	M26X100	45	0,2
5226IN150	M26X150	45	0,2
5230IN100	M30X100	49	0,3
5230IN150	M30X150	48	0,3
5235IN150IZ	M35X150	54	0,3
5236IN150	M36X150	54	0,4
5238IN150	M38X150	54	0,3

MAGNETIC PLATES EXTRACTOR SET FOR INTERNAL THREAD 52160

Magnetic plate extractor with external thread.



Bullet points

- Spindle end contains a ball to protect the shaft.

Ref.	R-Thread	Useful length	⚖️
5216	M16X100	30	0,1
5219	M19X100	30	0,1
5220	M20X100	30	0,1
5224-1	M24X100	30	0,1
5226	M26X125	30	0,1
5226-1	M26X100	30	0,1
5227	M27X125	30	0,1
5227-1	M27X100	30	0,1
5230	M30X150	30	0,2
5232	M32X150	30	0,2
5233	M33X150	30	0,2
5222-15	M22X150	30	0,1
5223-15	M23X150	30	0,1
5227-1IZ	M27X100IZ	30	0,1
5228-1	M28X100	30	0,2
5232-1	M32X125	30	0,2

MAGNETIC PLATES EXTRACTOR SET 5200A

Magnetic plates pullers set with external thread.



Bullet points

- Spindle end contains a ball to protect the shaft.
- It can be used with the most common motorbike models.

Ref.	Puller	From	⚖️	Magnetic plate puller
5200A	8	M16 a M27	0,8	5216 5219 5223-15 5224-1 5226 5227 5227-1 5227-1IZ



BATTERY TERMINAL PLIERS

5050



Battery terminal puller plier type.
Suitable tool for removing battery terminals from passenger vehicles.



Ref.	
5050	0,5

BATTERY TERMINAL PULLER 5400

5400



Battery terminal puller.
Suitable tool for removing battery terminals from larger vehicles.

**Bullet points**

- Self-centring system: automatic centering of the legs for a better grip.
- It can also be used as a small bearing puller.

Ref.	Height	Opening	
5400	40	50	0,2

BATTERY TERMINAL PULLER 5401

5401



Battery terminal puller.
Suitable tool suitable for removing battery terminals from heavy vehicles.

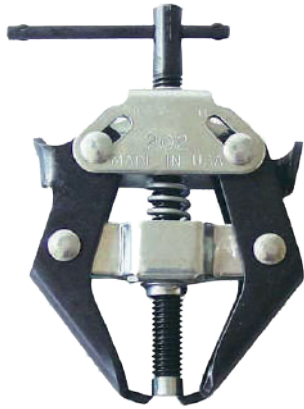
**Bullet points**

- It can also be used as a small bearing puller.

Ref.	Height	Opening	
5401	40	50	0,2

BATTERY TERMINAL PULLER 5942

5942



Battery terminal puller and small extractions.
Easily remove battery terminal.



Bullet points

- Self-centring system: automatic centering of the legs for a better grip.
- Quick-opening mechanism thanks to the spring.

Ref.	Opening	Height	
5942	6 - 9	28	0,4

CYLINDER HONING SET

028000




Motorbike cylinder hone.

Tool for honing the brake or clutch cylinder of motorbikes, lawnmowers, outboard engines and small passenger car engines.



Bullet points

- Flexible drive shaft for use with pneumatic or electric drills

Ref.	Ø		Spare part
			Stones
028000	13 to 89	0,3	028001
			028002

CYLINDER HONING SET FOR CARS

028100




Vehicle cylinder hone.

Tool for larger cylinders such as passenger cars, vans, boats and industrial facilities.



Bullet points

- Flexible drive shaft for use with pneumatic or electric drills.

Ref.	Diameter max	Diameter min		Spare part
				Stones
028100	180	50	0,5	028101
				028102
				028103

9 SPARE STONES SET

0280010




Replacement stones for cylinder honing 028000:

SET 028001 fine grain 400:
Three stones 20X8mm
Three stones 28x8mm
Three stones 50x8mm

SET 028002 medium grain 220:
Three stones 20X8mm
Three stones 28x8mm
Three stones 50x8mm



Ref.	Grit	Length	Width	
028001	Fine	20-28-50	8	0,1
028002	Medium	20-28-50	8	0,1

REPLACEMENT STONES SET


0281010



Replacement stones for cylinder honing:

SET 028001 fine grain 400: 101x11mm
SET 028102 medium grain 220: 101x 11mm
SET 028103: coarse grain 100:101x11mm



Ref.	Grit	Length	Width	
028101	Fine	101	11	0,1
028102	Medium	101	11	0,1
028103	Coarse	101	11	0,1

STEERING WHEEL PULLER

50820




Puller designed to remove steering wheels.
Model 5082T is equipped with 4 screws.

Bullet points

- Its four slots allow the access up to 4 different holes.



Ref.	Ømax	Spare parts		
		Screws	Screws	
5081	85	-	-	0,4
5082	115	-	-	0,9
5082T	115	3/8" 16h	3/8" 18h	1,1

EXHAUST PIPE CUTTER

021800



For exhaust tubes from Ø 28 to Ø 68 mm.
Suitable for cutting an exhaust tube without having to disassemble.
Fast and effective.



Ref.	Ø	
021800	DE 28 A 68	0,9



WINDSHIELD WIPER PULLER

57010



Windscreen wiper arm removal tool for vehicles that pull water outside of the wiper arm.

**Bullet points**

- The beam geometry allows to have 4 different puller's spread.

Ref.	Minimum opening	Maximum opening	Height		Accessorie
					Adaptor
5701	17	36	31	0,2	570109
5702	24	47	31	0,3	570109

UNIVERSAL WINDSHIELD WIPER PULLER

5700L



Windscreen wiper arm removal tool for vehicles that pull water outside either or inside of the wiper arm.

**Bullet points**

- The beam geometry allows to have 4 different puller's spread.
- The point protector can be removed for pulling water outside of the wiper arm.

Ref.	Minimum opening	Maximum opening	Height		Spare parts
					Adaptor
5701L	17	36	44	0,2	570109
5702L	24	47	44	0,3	570109

WINDSHIELD WIPER PULLER SET

5700



Suitable for all windshield wiper and small extractions.

Contains:

1 external puller 1001.

1 puller 5701L

1 puller 5702 without spindle and protector.

**Bullet points**

- The beam geometry allows to have 4 different puller's spread.
- The point protector can be removed for pulling water outside of the wiper arm.

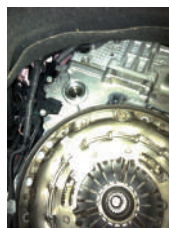
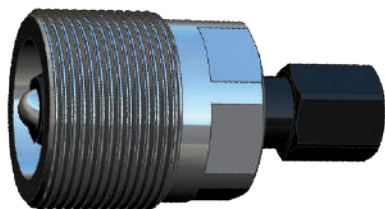
Ref.		Puller	Windshield wiper puller
5700	1,1	1001	5702 5701L

INJECTOR PUMP EXTRACTOR

60120



It is necessary to block the gear that drives the high-pressure fuel pump, when the fuel pump is removed.
Klann equivalence: KL-05850-21.



Ref.	Thread	Length	
60120	M32x1,5	53	0,3

JUMBO PRY BAR

T51990



Super Grip lever.
Cr-Vn steel.
The head is equipped with a hammering protection.



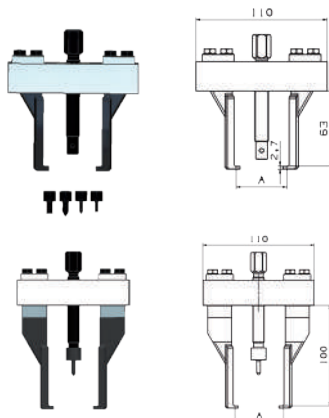
Ref.	Length	
T51990	900	2,0

ALTERNATOR BEARING PULLER KIT

5077C



Complete set to remove alternator bearings.
Supplied with 4 different diameters additional point protectors.



Ref.	Ømax	Ømin	
5077C	60mm	20mm	1,6



GROOVES CLEANER

5040



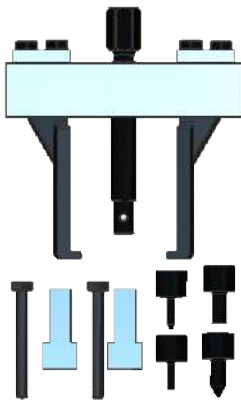
Specially designed tool for cleaning automotive piston grooves. It includes 2 rotating blades with channel sizes each blade.



Ref.	
5040	0,4

ALTERNATOR BEARING PULLER

5075



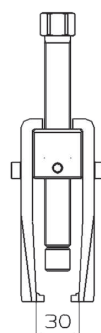
Complete set to remove alternator bearings. Supplied with 4 additional point protectors. Supplied in a cardboard box.



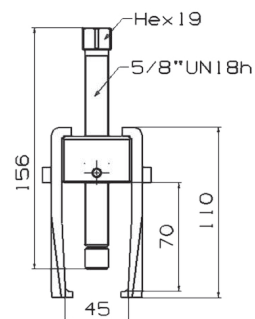
Ref.	Ømax	Ømin	
5075	60mm	20mm	0,9

ALTERNATOR PULLER

5072



Position 1



Position 2




Ref.	
5072	1,1

JUMBO PRY BAR SET

T51980

Set of 4 levers to assist in car bodywork repairs.



Ref.	Lenght	
T51980	200-300-450-600	2,1

SPOT WELD REMOVAL DRILL

040201

Specially designed drill bit for removal of spot welds on car body repairs.



Ref.	Ø	Lenght	
040201	8	80	0,1

METAL SHEET BENDING MACHINE

043100


Specially designed metal sheet bending machine for bending door panels.



Ref.	Lenght		Spare parts
			Pad
043100	240	0,8	043102

PAD REPLACEMENT FOR METAL SHEET BENDING MACHINE



Ref.	
043102	0,1

DOOR TRIM PANEL REMOVAL TOOL

T51940

Lever type puller to release staples from car doors and upholstery.



Ref.	Lenght	
T51940	240	0,2

BODYWORK REPAIR DOLLYS


050001



General purpose dollies for body repairs.

- 054801: curved dolly
- 055201: double-ended general purpose dolly.
- 055401: semi circular dolly.
- 055701: double-ended dolly for re-staping rounded.



Ref.	Purpose	Type	
054801	Foot	Dactilado fino	0,9
055201	Several	-	1,2
055401	Heel	-	1,2
055701	Rounding	-	0,7

HAMMER FOR BODYWORK

056500



Hammer for chopping with rounded handle end



Ref.	Head diameter	Lenght	
056500	41	97	0,4

BODYWORK FILE

0594000




Bumping tool- flat.
For removing small bumps and dents on corrugated surfaces.
Suitable for semi-finishing work on bodywork.



Bullet points

- The crossed serration prevents the stretching of the metal sheet.

Ref.	Type	
059400	Plana	0,8


TOOLS SET FOR PULLEYS

H69300



Set of two tools for disassembling and assembling transmission belts.
H6930 Made of nylon reinforced with glass fiber.
H6935 Professional serie Made of aluminium casting.



Ref.	Material	
H6930	Reinforced nylon	0,1
H6935	Aluminium	0,1

TURBO SYSTEM TESTER

H6980



It consists of 4 closing caps and 4 checking caps from 35 to 90 mm. It includes a gauge with integrated regulator for a better leaks reading. It allows the technician to pressurize the whole turbo and inlet system in order to detect quickly and accurately potential leaks.



Bullet points

- Caps with roughened surface for a better grip on the tubes



Ref.	Ø	
H6980	35 a 90	2,6

SURGE PROTECTOR

H9010



It protects the vehicle electronics components against voltage peaks when welding or booster starting. Protection against polarity reversal.



Bullet points

- Visual and audible signal.

Ref.	Volts	
H9010	12 y 24	0,5

FLOW MASTER COMMON RAIL

H9045



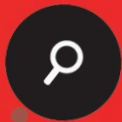
Direct measurement of the return flow of the injector thanks to a graduated and flexible tubes (depending on the flow volume). The set includes 24 adaptors for BOSCH, SIEMENS, DENSO and DELPHI injectors.



Bullet points

- Simultaneous measurement: up to 6 injectors.

Ref.	Adapters	
H9045	24	1,7



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OTHER



TOOLS



OTHER TOOLS:

The experience accumulated by FORZA over more than 50 years has allowed us to put together this wide range of tools.

OTHER TOOLS



External thread repair tool 268-271



Internal thread repair tool 272-275



Thread repair tool sets 276-278



Files and threading dies 279-280



Presses and wrenches 281-282



Nut splitters 283-284



Clamps 286-290



Multiprops and Magnetic holders291






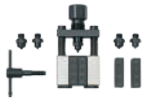


Magnetics tools 292-293



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EXTERNAL THREAD REPAIR FROM 4 TO 13MM

NEST



Tool designed to restore and clean external threads.
For household repairs, cars, bikes, pipes,
lawnmowers, heating and ventilation equipment.
06046 blade is included.



Ref.	D-Diameter		Blades
NEST	M4 A M13	0,1	06045 06046

EXTERNAL BLADES FOR NEST



Ref.	Degrees	Norm	
06045	55°	Whitworth	0,1
06046	60° (Included in the restorer)	Métrica/UN	0,1

EXTERNAL THREAD REPAIR SET NES1A

NES1A

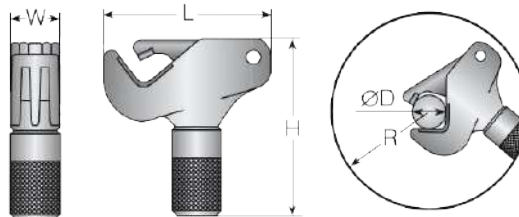


Tool designed to restore and clean internal threads.
Removes rust, bumps and burrs.
RK1-60 blade is included



Bullet points

- No need to measure the thread.
- Quickly adjustable to any diameter or pitch.
- This tool follows the thread automatically , repairing the damage.



Ref.	D-Diameter	L	W		Blades
NES1A	4 A 18	61	23	0,2	RK1-55 RK1-60



EXTERNAL BLADES FOR NES1A



Ref.	Degrees	Norm	
RK1-55	55°	Whitworth	0,1
RK1-60	60° (Included in the restorer)	Metric/UN	0,1

INTERNAL THREAD REPAIR SET NES2 NES2

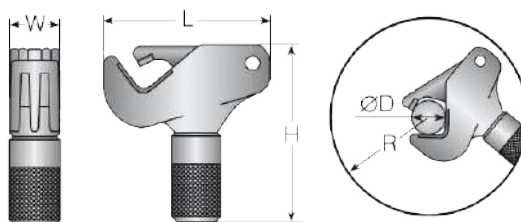


Tool designed to restore and clean internal threads.
Removes rust, bumps and burrs.
RK2-60 blade is included.



Bullet points

- No need to measure the thread.
- Quickly adjustable to any diameter or pitch.
- This tool follows the thread automatically , repairing the damage.



Ref.	D-Diameter	L	W		Blades
NES2	17 A 38	105	32	0,6	RK2-55 RK2-55F RK2-60 RK2-60F

EXTERNAL BLADES FOR NES2



Ref.	Degrees	Pitch	Norm	
RK2-55	55°	For thread > 2mm	Whitworth	0,1
RK2-55F	55°	For fine thread < 17h	Whitworth	0,1
RK2-60	60° (Included in the restorer)	For thread > 2mm	Metric/UN	0,1
RK2-60F	60°	For metric fine thread <1,5	Metric/UN	0,1



EXTERNAL THREAD REPAIR SET NES3

NES3



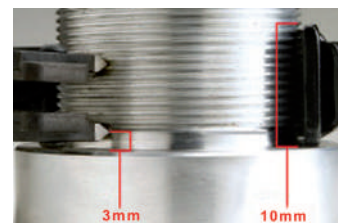
The tool V-shaped thread seat is narrower to reduce the gap between the blades to the tool sides. The combination of multi-teeth cutting blade with Keyway Skip Accessory makes your repairing outcome easy and perfect even on threads with keyway.




RK3-60 blade is included.

Bullet points


- No need to measure the thread.
- Quickly adjustable to any diameter or pitch.
- This tool follows the thread automatically , repairing the damage.



Ref.	D-Diameter	L	W		Blades	Keyway accessory
NES3	35 A 152	305	32	2,0	RK3-55; RK3-55F RK3-55G; RK3-60 RK3-60-1; RK3-60-125 RK3-60-150; RK3-60-175 RK3-60-200; RK3-60F RK3-60G	NES3KW


EXTERNAL BLADES FOR NES3



Ref.	Degrees	Pitch	Norm	
RK3-55	55°	For thread > 2mm	Whitworth	0,1
RK3-55F	55°	Fine thread pitch < 14h	Whitworth	0,1
RK3-55G	55°	Coarse pitch < 7h	Whitworth	0,1
RK3-60	60° (Included in the restorer)	For thread > 2mm	Metric/UN	0,1
RK3-60F	60°	Thinner than 1.75	Metric/UN	0,1
RK3-60G	60°	More coarse than 3.5	Metric/UN	0,1

MULTI-TEETH CUTTING BLADE FOR NES3



Ref.	Degrees	Pitch	
RK3-60-1	60°	1.00	0,1
RK3-60-125	60°	1.25	0,1
RK3-60-150	60°	1.50	0,1
RK3-60-175	60°	1.75	0,1
RK3-60-200	60°	2.00	0,1



KEYWAY SKIP ACCESSORY



Specially designed accessory for the NES3 repairman to rework threads that are split with a keyway.

Bullet points

- Allows to skip the keyway without damaging the threads.

Ref.	
NES3KW	0,1

EXTERNAL THREAD REPAIR SET NES5

NES5



Tool designed to restore and clean internal threads. Removes rust, bumps and burrs.

**Bullet points**

- No need to measure the thread.
- Quickly adjustable to any diameter or pitch.
- This tool follows the thread automatically, repairing the damage.



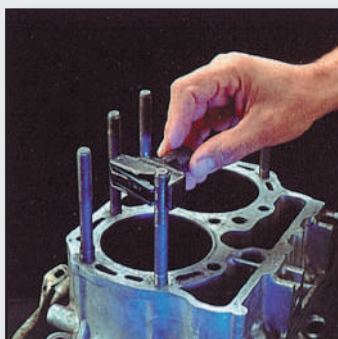
Ref.	D-Diameter	
NES5	10 - 18	0,9

EXTERNAL
THREAD
REPAIR TOOL



WATCH VIDEO

Application



- It is not necessary to measure the thread.
- It can be adjust very easily to any pitch or diameter.
- Automatically chases good thread sections to repair the damage parts.





INTERNAL
THREAD
REPAIR TOOLS



WATCH VIDEO

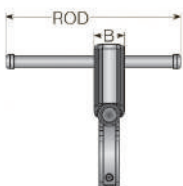
Application



- It is not necessary to measure the thread.
- It can be adjust very easily to any pitch or diameter.
- Automatically chases good thread sections to repair the damage parts.
- Yelow nylon pads. Essential when repairing threads in doft metal.

INTERNAL THREAD REPAIR SET NES21

NES21



Tool designed to restore and clean internal threads.
Removes rust, bumps and burrs.
RK21-60 blade is included.



Bullet points

- No need to measure the thread.
- Quickly adjustable to any diameter or pitch.
- This tool follows the thread automatically , repairing the damage.

Ref.	D-Diameter	L	U	B		Nylon pads	Blades
NES21	8 A11	109	20	18	0,2	NES2101	RK21-55 RK21-60

INTERNAL BLADES FOR NES21



Ref.	Degrees	Norm	
RK21-60	60° (Included in the restorer)	Métrica/UN	0,1
RK21-55	55°	Whitworth	0,1



INTERNAL THREAD REPAIR SET NES22/23/24 NES220



Tool designed to restore and clean internal threads.
Removes rust, bumps and burrs.
Blade for metric 60 is included (RK22-60, RK23-60 or RK24-60).



Bullet points

- No need to measure the thread.
- Quickly adjustable to any diameter or pitch.
- This tool follows the thread automatically , repairing the damage.

Ref.	D-Diameter	L	U	B	⚖️	Nylon pads	Blades
NES22	12 a 16	109	25	18	0,1	NES2201	RK22-55 RK22-60
NES23	16 a 20	111	25	21	0,3	NES2301	RK23-55 RK23-60
NES24	22 a 32	136	40	27	0,5	NES2401	RK24-55 RK24-55G RK24-60 RK24-60G

INTERNAL BLADES FOR NES22



Ref.	Degrees	Norm	⚖️
RK22-60	60° (Included in the restorer)	Métrica/UN	0,1
RK22-55	55°	Whitworth	0,1

INTERNAL BLADES FOR NES23



Ref.	Degrees	Norm	⚖️
RK23-60	60° (Included in the restorer)	Métrica/UN	0,1
RK23-55	55°	Whitworth	0,1

INTERNAL BLADES FOR NES24

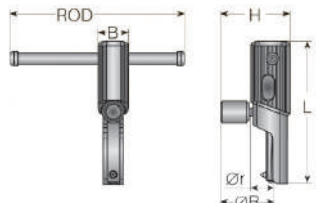


Ref.	Degrees	Pitch	Norm	⚖️
RK24-60	60° (Included in the restorer)	Pitch < 2.5 mm	Métrica/UN	0,1
RK24-55	55°	For more than 10 threads per inch	Whitworth	0,1
RK24-60G	60°	Coarse pitch > 2.5mm	Métrica/UN	0,1
RK24-55G	55°	Less than 10 threads/inch	Whitworth	0,1



INTERNAL THREAD REPAIR SET NES25

NES25



Tool designed to restore and clean internal threads.
Removes rust, bumps and burrs.
RK25-60 blade is included.



Bullet points

- No need to measure the thread.
- Quickly adjustable to any diameter or pitch.
- This tool follows the thread automatically , repairing the damage.

Ref.	D-Diameter	L	U	B	⚖️	Blades
NES25	32 a 54	163	50	38	1,0	RK25-55 RK25-55F RK25-60 RK25-60F

INTERNAL THREAD REPAIR SET NES26

NES26



Tool designed to restore and clean internal threads.
Removes rust, bumps and burrs.
RK25-60, RK25-60F, RK26-60G y RK26-60F blades are included.



Bullet points

- No need to measure the thread.
- Quickly adjustable to any diameter or pitch
- This tool follows the thread automatically , repairing the damage.

Ref.	D-Diameter	L	U	B	⚖️	Blades
NES26	32 a 68	163	50	50	1,1	RK25-55; RK25-55F RK25-60; RK25-60F RK26-55F; RK26-55G RK26-60F; RK26-60G

INTERNAL THREAD REPAIR SET NES27/28/29

NES270



Specially reinforce design to repair large threads in the given diameter range RK26-60G and RK26-60F blades are included.



Bullet points

- No need to measure the thread.
- Quickly adjustable to any diameter or pitch.
- This tool follows the thread automatically , repairing the damage.

Ref.	D-Diameter	L	U	B	⚖️	Blades
NES27	69 a 81	163	50	50	1,4	RK26-55F; RK26-55G RK26-60F; RK26-60G
NES28	82 a 95	163	50	50	1,5	RK26-55F; RK26-55G RK26-60F; RK26-60G
NES29	96 a 108	163	50	50	1,5	RK26-55F; RK26-55G RK26-60F; RK26-60G

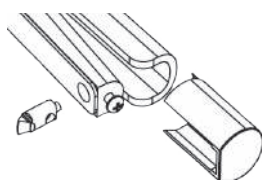


INTERNAL BLADES FOR NES25/26/27/28/29



Ref.	Degrees	Pitch	Norm	
RK25-60	60° (Included in the restorer)	Thread pitch > 2mm	Metric/UN	0,1
RK25-60F	60° (Included in the restorer)	For fine thread <1.75mm	Metric/UN	0,1
RK25-55	55°	Thread pitch > 2mm	Whitworth	0,1
RK25-55F	55°	For threads finer than 14 threads	Whitworth	0,1
RK26-60G	60° (Included in the restorer)	Coarse pitch	Metric/UN	0,1
RK26-60F	60° (Included in the restorer)	Fine metric <1,75mm	Metric/UN	0,1
RK26-55G	55°	Coarse pitch	Whitworth	0,1
RK26-55F	55°	Fine pitch <14 threads	Whitworth	0,1

5 NYLON PADS BAG



Ref.	Thread sizes	
NES2101	9-12mm	0,1
NES2201	14-18mm	0,1
NES2301	18-22mm	0,1
NES2401	22-23mm	0,1



EXTERNAL THREAD REPAIR SET NES12

NES12




Tool set designed to restore and clean external threads .
 Diametre range: M4 to M38.
 Recommended for: Automotive garage, small and medium industrial workshop, farming use and yacht maintenance.



Bullet points

- No need to measure the thread.
- Quickly adjustable to any diameter or pitch.
- This tool follows the thread automatically , repairing the damage.

Ref.	Additional blades		Restorer
NES12	RK1-60, RK2-60	1,2	NES1A NES2

EXTERNAL THREAD REPAIR SET NES123

NES123



Tool set designed to restore and clean external threads.
 Diametre range: M4 to M152.
 Recommended for: Truck and Tractors garage, Industrial maintenance in all industries, Energy industries, shipyard, marine and offshore users.



Bullet points

- No need to measure the thread.
- Quickly adjustable to any diameter or pitch.
- This tool follows the thread automatically , repairing the damage.

Ref.	Additional blades		Restorer
NES123	RK1-60, RK2-60, RK3-60	4,0	NES1A NES2 NES3

INTERNAL THREAD REPAIR SET NES1007

NES1007



Tool set designed to restore and clean internal threads
 Diametre range: M8 to M20.
 Recommended for: Industrial maintenance, energy industry, construction workers.



Bullet points

- No need to measure the thread.
- Quickly adjustable to any diameter or pitch.
- This tool follows the thread automatically , repairing the damage.

Ref.	Additional blades		Restorer
NES1007	RK21-60, RK22-60, RK23-60	0,8	NES21 NES22 NES23



INTERNAL THREAD REPAIR SET NES1008 **NES1008**



Tool set designed to restore and clean internal threads
 Diametre range: M8 to M32 .
 Recommended for: Industrial maintenance, energy industry, construction workers and plumbers.



Bullet points

- No need to measure the thread.
- Quickly adjustable to any diameter or pitch.
- This tool follows the thread automatically , repairing the damage.

Ref.	Additional blades		Restorer
NES1008	RK21-60, RK22-60, RK23-60, RK24-60	1,3	NES21 NES22 NES23 NES24

INTERNAL THREAD REPAIR SET NES1036 **NES1036**



Tool set designed to restore and clean internal threads .
 Diametre range: M22 to M68.
 Recommended for: Industrial maintenance, energy industry, construction workers and shipyards marine and offshore works.



Bullet points

- No need to measure the thread.
- Quickly adjustable to any diameter or pitch.
- This tool follows the thread automatically , repairing the damage.

Ref.	Additional blades		Restorer
NES1036	RK24-60, RK25-60	1,3	NES24 NES25 NES26

EXTERNAL AND INTERNAL THREAD REPAIR SET NES1012 **NES1012**



External and internal set.
 External diametre M4 to M18.
 Internal diametre M8 to M16.
 Recommended for: Small automotive garage, small & medium industrial workshop, farming use and yacht maintenance.



Bullet points

- No need to measure the thread.
- Quickly adjustable to any diameter or pitch.
- This tool follows the thread automatically , repairing the damage.

Ref.	Additional blades		Restorer
NES1012	RK1-60, RK21-60, RK22-60	0,8	NES1A NES21 NES22



EXTERNAL AND INTERNAL THREAD REPAIR SET NES1017

NES1017




External and internal set.
 External diameter M4 to M18 mm.
 Internal diameter M8 to M20 mm.
 Recommended for automobile and industrial workshops, agricultural use and yacht maintenance.



Bullet points

- No need to measure the thread.
- Quickly adjustable to any diameter or pitch.
- This tool follows the thread automatically , repairing the damage.

Ref.	Additional blades		Restorer
NES1017	RK1-60, RK21-60, RK22-60, RK23-60	1,0	NES1A NES21 NES22 NES23

EXTERNAL AND INTERNAL THREAD REPAIR SET NES1025

NES1025



External and internal set.
 External diameter M4 to M38 mm.
 Internal diameter M8 to M32 mm.
 Recommended for automobile and industrial workshops, agricultural use and yacht maintenance.



Bullet points

- No need to measure the thread.
- Quickly adjustable to any diameter or pitch.
- This tool follows the thread automatically , repairing the damage.

Ref.	Additional blades		Restorer
NES1025	RK1-60, RK2-60, RK21-60, RK22-60, RK23-60, RK24-60	2,0	NES1A; NES2 NES21; NES22 NES23; NES24


NES THREAD REPAIR EXHIBITOR

NEXP



Exhibitor with internal and external threaded repairs.
 Two models available.



Ref.	Composición				
NEXP1	8 NEST	4 NES1A	2 NES2	2 NES1012	10,2
NEXP2	4 NEST	2 NES1A	1 NES2	1 NES1012	7,9



EXTERNAL THREADS FILE **0156000**

Thread restorer with plastic handle insert.



Bullet points

- Each file has 8 different thread pitches.



Ref.	Thread type	Steps	Degrees	
015600	BSW/BSP	FROM 11 TO 26H	55°	0,2
015601	SAE or UN	FROM 12 TO 26	60°	0,2
015602	Metric	0,75 TO 3	60°	0,2
015603	BSP	FROM 11 TO 28H	55°	0,2

3 EXTERNAL FILE FOR THREADS **5930**

File for external threads with plastic handle.



Bullet points

- Each file has 8 different thread pitches.



Ref.	Abrasive file	Abrasive file	Abrasive file	
5930	59301	59302	59304	0,5

ECONOMIC EXTERNAL THEAD FILE **593040**

Exterior thread files with a plastic handle.



Bullet points

- Each file has 8 different thread pitches.



Ref.	Thread type	Steps	Degrees	
59301	SAE or UN	11,12,13,14,16,18,20 and 24	60°	0,2
59302	SAE or UN	9,10,12,16,20,27,28 and 32	60°	0,2
59304	Metric	0,75,1,7,125,1,5,1,75,2,2,5 and 3	60°	0,2

SET OF 5 FEMALE THREAD RESTORERS **509597**

5 nuts thread restorer set to clean and restore threads.

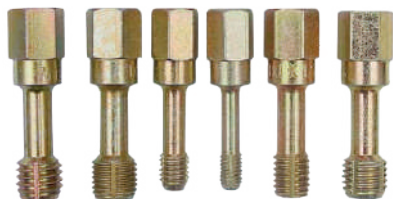


Ref.	Metric	
509597	M6 M8 M10 M12X1,25 M12X1,5 M12X1,75	0,6




SET OF 6 MALE THREAD RESTORERS

509598



6 screws thread restorer set to clean and restore threads.



Ref.	Metric	
509598	M6 M8 M10 M12X1,25 M12X1,5 M12X1,75	1,8


MASTER THREAD RESTORES KIT OF 15 PIECES

509599



Contains male and female thread repairs and a thread file.



Ref.	Metric	
509599	M6 M8 M10x1,25 M10 M12X1,25 M12X1,5 M12X1,75	0,5

HYDRAULIC PRESSES FOR PULLER 8 AND 12 TON

2060




Hydraulic system with manual return to increase the force of the mechanical pullers.
 The difference of the piston diameters multiplies the force .
 The piston has a stroke of 8mm
 Hydraulic force is applied by turning a screw.

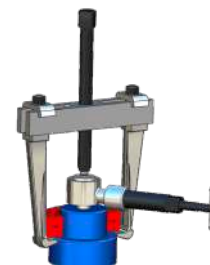


Bullet points

- Hydraulic system: faster extraction with less effort.
- An easy hydraulic pressing tool suitable for limited spaces.



Ref.	Ø	Stroke	TON	
2660	33	8	8	0,1
2665	44	8	12	2,2



HYDRAULIC PRESSES FOR PULLER 5 AND 11 TON

2600




Hydraulic system with automatic return to increase the force of the mechanical pullers.
 The difference of the piston diameters multiplies the force
 Hydraulic force is applied by turning a screw.



Bullet points

- Hydraulic system: faster extraction with less effort.

Ref.	Ø	Stroke	TON	
2650	45	4	5	1,3
2655	70	2	11	2,3





QUICK ACTION WRENCH **821030**



Ratchet wrench 13 to 30 mm.
This tool allows to tighten and to loose a nut in a reversible way.



Bullet points

- Quick and precise adjustment to the nut size.

Ref.	Minimum	Maximum	
821030	12	30	0,6



FAST REVERSIBLE HANDLE **82012**



Manual with 1/2" square drive.
The quick approach improves the work with our pullers, metal round knockout punches and tools wit very long screws.



Bullet points

- It has a crank for a super fast approximation.
- It allows a quick approach, even for loose screws.



Ref.	Handle length	Length	
82012	170mm	250mm	0,5

TORQUE WRENCHES **801000**

Our Best Selling Torque with an exclusive Sykes-Pickavant Design.



Professional Torque Wrench.

Accurate to +/-3% of reading which meets the requirements of ISO 6789-2:2017.
Supplied with a traceable 'Calibration Certificate' allowing end-users to adhere to more stringent quality control processes.

Bullet points

- 60% larger scale for better visibility and improved accurate setting.
Superior, ergonomic handle and shape - Soft-feel, high grip material and more comfortable to use.
- Improved serviceability means longer life and reduced ownership costs.

Ref.	Square	Included Reducer	Nm	Length	
801050	3/8"	1/2"	0-50	335mm	0,7
801100	1/2"	3/8"	20-100	387mm	0,9
801200	1/2"	No	40-200	470mm	1,1
801300	1/2"	No	60-300	593mm	1,4
801340	1/2"	No	60-340	593mm	1,5
801400	3/4"	No	80-400	686mm	1,9



SPEEDLINE TORQUE WRENCH

801000L



The Speedline Torque utilises Speedline’s proven mechanism and internal components and incorporates them into a purposeful and attractive torque wrench that will delight a wide range of users from professional mechanics to hobby enthusiasts.

Accurate to $\pm 3\%$ of reading which meets and exceeds ISO6789:2003. Micrometer scale applying to the primary torque units (N.m on a dual scale wrench) for simple and error free setting.



Bullet points

- Push through’ ratchets allow torque control in both the clockwise and anti-clockwise directions.
- Pull/push lock is fast and intuitive to use and prevents accidental adjustment of the set torque.
- Convenient hanger feature for tool storage also aids wrench unlocking and adjustment.
- Supplied with a traceable ‘Calibration Certificate’ Includes square reducer og 3/8” in the small models.

Ref.	Square	Includes reducer of 3/8”	Nm	Lenght	⚖️
801050L	1/2”	Yes	0-50	370mm	1,1
801100L	1/2”	Yes	20-100	500mm	1,3
801200L	1/2”	No	40-200	500mm	1,4
801340L	1/2”	No	60-340	720mm	2,1

BIG TORQUE WRENCH

802400



3/4” sq. dr. Torque Wrench / 200 - 800 N.m / 150 - 600 lbf.ft.

New Torque Scale.
 Push-through ratchet allows two directional torquing.
 Robust construction gives accurate results to $\pm 4\%$ even in arduous working conditions.
 Tool is supplied with a Declaration of Conformance which meets the requirements of ISO 6789-1:2017.
 New handle - more comfortable and guides operator’s hand to correct position
 Easy to read scale is shielded from dust, dirt and spray.



Bullet points

- Split Torque Design - The new generation design can be split into two parts for easy and economic storage and shipping.
- Unique profiled cam ad reaction plate - gives much clearer torque signal and the large break angle greatly reduces the possibility of over torquing.
- Easy to set accurately - setting tool included.

Ref.	Square	Nm	⚖️
802400	3/4”	200-800	0,1



MECHANICAL NUT SPLITTERS 6310



New improved deising of nut splitters.
Engineering improvement that helps the nut cutting.
Perpendicular blade against the face of the nut.
The Sharp blade at 60 degrees ensures the smooth cutting.
Replacement blades available.



Bullet points

- Engineering improvement that helps the nut cutting :perpendicular blade against the nut face.
- The Sharp blade at 60 degrees ensures the smooth cutting.



Ref.	Nut thread	Hexagon nut	Nut thickness	Maximum torque	Hexagon base	To	B	D	⚖️	Blade
6311	To M10	4 to 19	8	38Nm	22	84	32	21	0,2	631105
6312	M5-M16	19 to 27	13	50Nm	24	102	46	27	0,3	631205
6313	M16-M24	27 to 32	19	190Nm	27	120	61	28	0,5	631305

NUT SPLITTERS BLADES

Blades made of F522 material tempered to 52HRc
With a cutting angle of 60°.



Ref.	Ø	Lenght	⚖️
631105	12,5	42	0,1
631205	14,5	50	0,1
631305	16,3	52	0,1

HIGH PERF. NUT SPLITTERS BLADES

VANADIS blades made with double angle (45° and 60°)
much more resistant to cut stainless steel nuts.
Blades made of Vanadis 4, one of the most ductile and wear resistan material, tempered up to 64HRc.

The smaller angle allows and easier cutting with half the effort.



Ref.	Ø	Lenght	⚖️
631106	12,5	42	0,1
631206	14,5	50	0,1
631306	16,3	52	0,1

HIGH PERFORMANCE NUT SPLITTERS 6310I



Cutting without limits thanks to our high-performance blade.
Highly recommended for cutting and loosening stainless steel and high quality nuts.
Replacement blades for sale.



Bullet points

- 60% more efficient and faster cut.
- Vanadis 4 material blades, one of the materials with the highest ductility and resistance.Hardness up to 64 HRC.
- The double blade angle allows a better cutting with the half of the strenght.
The high performance nut splitters have an anti-friction washer that dissipates the heat produced by the friction of the blade and reduces the cutting moment by 30%.

Ref.	Nut thread	Hexagon nut	Nut thickness	Maximum torque	Hexagon base	To	B	D	⚖️	Blade
6311I	To M10	4 to 19	8	38Nm	22	84	32		0,2	631106
6312I	M5-M16	19 to 27	13	50Nm	24	102	46		0,3	631206
6313I	M18-M24	27 to 32	19	190Nm	27	120	61		0,5	631306



MECHANICAL NUT SPLITTERS SET

6300M



Plastic case with 3 nutsplitter models.
Engineering improvement that helps the nut cutting: perpendicular blade against the face of the nut.
The Sharp blade at 60 degrees ensures the smooth cutting
replacement blades are available.



Bullet points

- Engineering improvement that helps the nut. cutting: perpendicular blade against the nut face.
- The Sharp blade at 60 degrees ensures the smooth cutting.

Ref.		Nut splitters
6300M	1,5	6311 6312 6313

HIGH PERFORMANCE NUT SLITTER SET

6300MI



Plastic set made up of of 3 models of high-performance nut splitters
Cutting without limits thanks to our high-performance blade
50% more efficient and faster cut
Highly recommended for cutting and loosening stainless steel nuts.
Replacement blades for sale



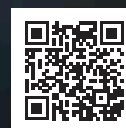
Bullet points

- 60% more efficient and faster cut
- Vanadis 4 material blades, one of the materials with the highest ductility and resistance.Hardness up to 64 HRC
- The smaller angle allows a better cutting with the half of the strenght.

Ref.		High performance nut splitter
6300MI	1,5	6311 6313 63111



WATCH VIDEO





MECHANICAL NUT SPLITTER EXHIBITOR 6300



Strong cardboard display consisting of 3 models of nut splitters.
Check your implementation price.



Bullet points

- Engineering improvement that helps the nut cutting :perpendicular blade against the nut face.
- The Sharp blade at 60 degrees ensures the smooth cutting.

Ref.		Nut splitters
6300	2,5	6311 6312 6313

NUT SPLITTER DISPLAY WITH 2 LINES OF MECHANICAL NUT SPLITTERS 6300I



Strong cardboard display made up of 6 models of nut splitters:
3 differents sizes of standard mechanical nut splitter.
Another 3 sizes of high performance nut splitters.



Ref.		Nut splitters	High performance nut splitter
6300I	2,1	6311 6312 6313	6312I 6313I 6311I

HYDRAULIC NUT SPLITTERS 6310H



Hydraulic nut splitter.

Bullet points

- Hydraulic system: faster extraction with less effort.

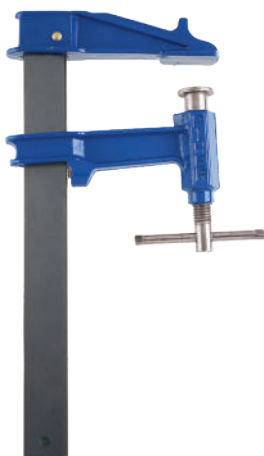


Ref.	Hexagon	Metric	
031600	22	M14	0,9
033600	37	M24	4,7




CLASSIC CLAMP MODEL E DEPTH :85 MM

P301500



Extra resistant hot rolled steel bar(900N/mm²) and anti-rust coated bar.
Nonslip brake on moving jaw.



Ref.	Opening	Width		Protector
P30150	150	85	1,1	P24014
P30200	200	85	1,2	P24014
P30300	300	85	1,4	P24014
P30400	400	85	1,5	P24014
P30250	250	85	1,3	P24014


MODEL F CLAMP DEPTH:120 mm

P402000



Extra resistant hot rolled steel bar(900N/mm²) and anti-rust coated bar.
Nonslip brake on moving jaw.



Ref.	Opening	Width		Protector
P40200	200	120	1,8	P24014
P40300	300	120	1,5	P24014
P40400	400	120	2,2	P24014
P40500	500	120	2,4	P24014
P40600	600	120	2,6	P24014
P40800	800	120	3,0	P24014
P41000	1000	120	3,4	P24014


MODEL R CLAMP DEPTH:150 mm

P504000



Extra resistant hot rolled steel bar(900N/mm²) and anti-rust coated bar.
Nonslip brake on moving jaw.



Ref.	Opening	Width	
P50400	400	150	3,3
P50500	500	150	3,7
P50600	600	150	4,0
P50800	800	150	4,6
P51000	1000	150	5,2
P51500	1500	150	6,7
P5200	2000	150	8,2



MAXIPRESS F CLAMP DEPTH:120 mm **P600200**



Leaf spring steel rim.
Ergonomic handle, removable and interchangeable.



Ref.	Opening	Width	⚖️
P60020	200	120	2,1
P60030	300	120	2,3
P60040	400	120	2,6
P60060	600	120	3,0
P60080	800	120	3,4
P60100	1000	120	3,9

MAXIPRESS R CLAMP DEPTH:160 mm **P610300**

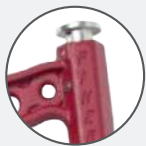


Leaf spring steel rim.
Ergonomic handle, removable and interchangeable.



Ref.	Opening	Width	⚖️
P61030	300	160	2,0
P61040	400	160	2,5
P61050	500	160	4,1
P61060	600	160	4,4
P61080	800	160	5,1
P61100	10000	160	5,7
P61150	15000	160	7,2

Characteristics



Piston system with no torsion:
Protects the screw mechanism from any possible blow or dirt, extending the life of the clamp. The plunger does not rotate, allowing 2 pieces to be glued without the risk of slipping.



Ergonomic and interchangeable articulating handle:
It can be used horizontally, not only vertically, being able to exert more pressure due to the lever effect. Withstands 180° of temperature and is interchangeable.



Tempered steel Nonspli brake:
Protects the hand from possible unwanted falls of the moving head.



Grooved fixed jaw:
The surface of the fixed head has recesses for the sectioning of curved elements, such as tubes, round parts, etc.



Greasing hole:
In the bolting area there is a hole for greasing the mechanism if necessary.

PROTECTOR SETS FOR CLAMPS **P24014**



Valid only for models E and F.



Ref.	Width	Length	⚖️
P24014	45	65	0,1



MINI QUICK CLAMP

P524150



Nylon and fibreglass jaws.
Carbon steel bar.
Reversible.



Ref.	Opening	Width	⚖️	Protector
P52415	150	50	0,3	P52412
P52430	150	60	0,3	P52412

PROTECTOR FOR MINI CLAMP

P52412



Set of 2 units.



Ref.	⚖️
P52412	0,1

QUICK CLAMP

P526150



Nylon and fibreglass jaws.
Carbon steel bar.
Reversible.



Ref.	Opening	Width	⚖️	Protector
P52615	150	80	0,7	P52505
P52625	1250	130	1,7	P52505
P52630	300	90	0,8	P52505
P52645	450	100	0,9	P52505
P52660	600	110	1,0	P52505
P52690	900	120	1,2	P52505
P52590			1,2	P52505

PROTECTOR FOR QUICK ACTION CLAMP

P52505



Set of 2 units.



Ref.	⚖️
P52505	0,1

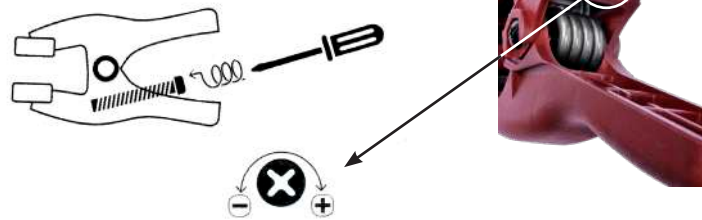


ADJUSTABLE SPRING CLAMP

P309100



Adjustable screw pressure.
Nylon and fibreglass body.
Adjustable angle grips.
Extra-resistant tempered spring.



Ref.	Length	Width	
P30910	115	30	0,1
P30911	165	50	0,1

PROFESSIONAL FORGED STEEL CLAMPS MODEL TPAL

P308100



TPAL model clamps for guides and holes.
Forged steel.
Very focused on the wood sector.

**Bullet points**

- Flatter head than usual to be introduced into wood cutting machines such as FESTOOL, MAKITA or DEWALT.

Ref.	Opening	Width	
P30810	120	60	0,5
P30811	160	60	0,6
P30812	200	60	0,6
P30813	300	60	0,6



MULTIPORPUSE

P300100




Tilting non-slip pads adjustable to any angle with holes to assemble to any surface.
1 mm thick steel tubes.
Nylon fibreglass reinforce handle.



Bullet points

- Spring system for a quick fixation.
- It an work outdoors. Oxidation resistan.

Ref.	Maximum length	Minimum length		Multiprop pad	Tripod
P30010	1000	600	1,4	P34037	P34050
P30011	1700	950	1,8	P34037	P34050
P30012	2900	1550	2,6	P34037	P34050
P34004	3750	2000	3,2	P34037	P34050


MULTIPORPUSE TRIPOD

P34050



Load capacity 300Kg.
Welded tubes and profiles.



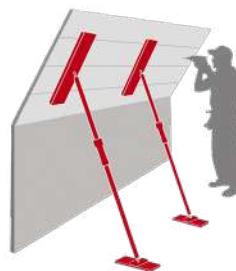
Ref.	
P34050	2,2


SPARE MULTIPROP PAD

P34037



Aluminium body.
Stainless steel springs.
EPDM rubber Anti-slip surface.
Easy and quick to attach to both pads of our multiprops.



Ref.	
P34037	0,2

ARM+ EXPANSION PROP

P34093



Tilting non-slip pads adjustable to any angle with holes to assemble to any surface.
1 mm thick steel tubes.
Nylon fibreglass reinforce handle.
Easy One hand use.
Don't turn the handle if accesory used.



Ref.	Minimum length	Maximum length	
P34093	168	300	2,9



MAGNETIC HOLDERS

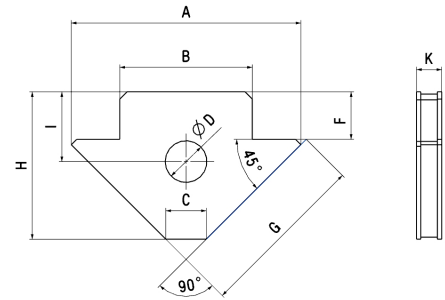
P290030



Ferrite magnet protected with bakelite resistant to high temperatures
For welding 45° and 90° angles.
2,5mm thick steel sheet joined with threaded screws.

**Bullet points**

- Very useful for holding steel parts .either in welding or measuring works.



Ref.	To	B	C	ØD	F	G	H	I	K	⚖️
P29003	85	15	14	24	25	91	82	37	14.5	0,3
P29004	110	18	28	29	33	118	102.5	48.5	17.5	0,7
P29005	140	20	39	40	39	153	128	60	20.5	1,2

MAGNETIC GROUND BLOCK

P290060



Entirely brass contact piece.
Industrial use.
Permanent ferrite magnet.



Ref.	Ø	Endurance	⚖️
P29006	6	150A	0,2
P29007	9	300 A	0,3

TERMINAL FOR MAGNETIC GROUND

P290080



Terminal for use with magnetic ground.



Ref.	Voltaje	⚖️
P29008	300A	0,1
P29009	500A	0,1

WARNING:

- Disconnect the appliances before performing any maintenance operation.
- Study the table of recommendations to choose the correct cable size.
- Make sure that the surfaces are clean and free of paint, rust, etc., to ensure good contact.

**RECOMMENDED CABLE SECTION:**

AMPS	Cable length.					
	15m	30m	45m	60m	75m	100m
100	16	25	25	25	25	35
150	25	25	25	35	50	70
200	35	35	35	50	70	95
250	50	50	50	70	95	
300	70	70	70	95		
350	95	95	95			
400	95	95				
500	95					

STRONG FLEXIBLE MAGNETS

H6631

It has a flexible shaft for a permanent bending.
Magnet of 1.5Kg of force.



Bullet points

- Equipped with an “Energy Ring” ring that reduces lateral magnetization by 99%, and increases the central point magnetization by 35%.

Ref.	Lenght	Magnet diameter	
H6631	552	6	0,1

TELESCOPIC MAGNETS H6640

H6640

This magnet bends and stays in any position.
The head has a diameter of 8mm.




Ref.	Lenght	Magnet diameter	
H6640	552	6	0,1

TELESCOPIC MAGNETS 670006

670006

Magnet helps picking up small metal parts from inaccessible places.



Ref.	Lenght	
670006	135 a 490	0,3

TELESCOPIC MAGNETS H6652


H6652

5Kg strong telescopic magnet that allows large pieces to be recovered.



Bullet points

- Equipped with an “Energy Ring” ring that reduces lateral magnetization by 99%, and increases the central point magnetization by 35%.

Ref.	Length	Strength	
H6652	200 A 830	50N	0,1



TRACER PEN

H6665



This tool has three different uses:
Magnet helps picking up small metal parts.
Needle for spray nozzle clean up and adjustment.
Needle can also be used for tracing and marking.



Ref.	Length	Ø	
H6665	160-475	7	0,1

PICKUP CLAMP WITH LIGHTING

H6675



Pickup clamp with lighting.
Four claw jaws suitable to pick up non-magnetic objects
It is not magnetized.

**Bullet points**

- Very intense lighting with a LED that lights up when you open the clamp.

Ref.	Length	
H6675	600	0,3

DIGITAL THERMOMETER

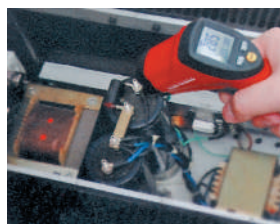
H70150



Precise non-contact thermometer. Two laser points to a single spot when the unit is at the optimal distance from the target.

Bullet points

- Emissivity adjustable to the material type.



Ref.	Temperature	
H7015	de -50 a 550:	0,3
H7020	de -50 a 1000:	0,3

SONOSCOPE

323700



Super sensitive sound detector, with a built-in diaphragm which amplifies noise, for assisting in the diagnostic process.
Made of robust metal and plastic, with a 550 mm hose and a 290 mm probe.

Helps to diagnose many vehicle problems, including: Noisy water pumps, faulty wheel bearings, alternator problems, etc...



Ref.	
323700	0,2

TELESCOPIC MAGNET AND MIRROR SET

H6690



High quality.
Solvents and shocks resistant.

Bullet points

- Shock and solvent resistant.



Ref.		Mirror	Magnet
H6690	0,3	H6612	H6652

HIGH INTENSITY FLEXIBLE INSPECTION LIGHT

H64100



Goes where ordinary lights won't fit
Includes a plastic extension to mount on the handle
Alkaline batteries included



Ref.	Length	Extension	
H6410	400	280	0,2
H6415	600	460	0,3

LIGHTED INSPECTION MIRROR

H65100



Device for visual inspection and troubleshooting.
Thumb controls 90° mirror adjustment.
Powerful lamp to illuminate the dark areas.



Ref.	Length	
H6510	600	0,2

TELESCOPIC MIRROR

H6612



High quality.
Solvent and shatter resistant.
45x60 mm mirror.
Arm from 170 to 665mm.



Ref.	Mirror	Lenght	
H6612	45x60	170-665	0,1



CHAIN TOOL FOR INSTALLATION AND REMOVAL **5110**



Dismounts chains up to 1 “.
Mounts chains up to 3/4 “.



Ref.	Dismounts	Fits	
5110	Hasta 1”	Hasta 3/4”	2,0

JOINT, SEAL AND BEARING RINGS INSTALLATION KIT **T63100**



Assembly of seals, seals and bearing rings.
Suitable for replacing smaller bushes, bearings and seals etc. It can be used in various vehicles, electric motors and other components and equipment.



Ref.	Diameters	Rings	
T63100	10 A 32	13 Cilindricos	0,6

CHAIN TENSIONER PULLER **5125**



Professional tensioner for the removal and replacement of motorcycle chain links, compatible with 415, 420, 428, 520, 525, 530, 532, and 630 motorcycle chains.



This tool allows you to properly approximate the links and install a new one easily and quickly.

Bullet points

- Handle for an easier tightening.



Ref.					
5125	25,7	11,3	63	5,2	0,4

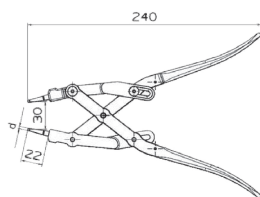





ARTICULATE SNAP RING PLIERS

5800

Estos alicates incluyen las puntas ectas y curvas para anillos.




Ref.	From	To	Application	
5810IN	8	120	Interiores	0,5
5820EX	8	120	Exteriores	0,5

TIPS FOR ARTICULATE SNAP RING PLIERS

5810PI0

Tips for snap ring pliers 5810IN and 5820EX.




Ref.	Puntas	
5810PI	5811R, 5813R, 5814R, 5811C, 5813C y 5814C	0,1
5820PE	5821R, 5823R, 5824R, 5821C, 5823C y 5824C	0,1

INTERNAL AND EXTERNAL SNAP RING PLIERS

5830N0

Snap ring pliers with internal and external interchangeable tips. Regulation stop mechanism for an easier use and to prevent to damage the rings due to an excessive force. All tips are included.




Ref.	External diameter	Internal diameter	
5830N	3 a 26	7 a 26	0,2
5840N	7 a 51	10 a 51	0,3
5860N	32 a 102	46 a 102	0,5

2 SNAP RING PLIERS SET

5800S0

Snap ring pliers with internal and external interchangeable tips. Regulation stop mechanism for an easier use and to prevent to damage the rings due to an excessive force. All tips are included.



Ref.	External diameter	Internal diameter		Plier
5800S	3 to 51	7 to 51	0,5	5830N 5840N



3 SNAP RING PLIERS SET **5800N**



Snap ring pliers with internal and external interchangeable tips. Regulation stop mechanism for an easier use and to prevent to damage the rings due to an excessive force. All tips are included.



Ref.	External diameter	Internal diameter		Plier
5800N	3 a 102	7 a 102	1,5	5830N 5840N 5860N

SPINDLE SNAP RING PLIER **5870**

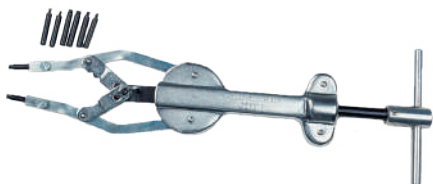


Made of hardened steel set of pliers with a T-handle for an accurate control. Suitable for internal and external snap rings. It is recommended to use the longer tips for greater stability. All tips are included.



Ref.	External diameter	Internal diameter	
5870	90 a 175	90 a 175	1,3

SNAP RING PLIER **28300**



Made of hardened steel with T-handle screw action for precise control. Suitable for internal and external rings. The tips are interchangeable.



Ref.	External diameter	Internal diameter	
028300	44 A 18	44 A 180	0,7

BRAKE LINE CLAMP **35700**



Clamp for flexible and fuel pipes. Nylon clamp. This type of clamp is particularly useful where the clamp needs to be left on the brake line for an extended period as it does not crush the lose.



Ref.	
035700	0,1



OPEL BRAKE PISTONS PLIER

T51257



This circlip tool opens and holds the special ring in order to remove the brake cylinder.
In some Opel vehicles this tool also allows you to remove the locking circlip to separate the shaft from the seal.



Ref.	Function	
T51257	Opel	1,0

SLEEVE FLANGUE PLIER

T51845



Sleeve flange pliers for cooling, heating and carburetion hose flanges and wire type cable ties.



Ref.	
T51845	0,2

OETIKER FLANGE PLIERS

T51860



Pliers for tightening bellows flanges type OETIKER.
For BMW, Chrysler, Ford, GM, Honda, Mazda, Mercedes, Nissan and VAG.



Ref.	
T51860	0,4

SW SNAP RING PLIERS

T51862



Snap ring plier.
Red Dipped Handles for Comfort and Grip.

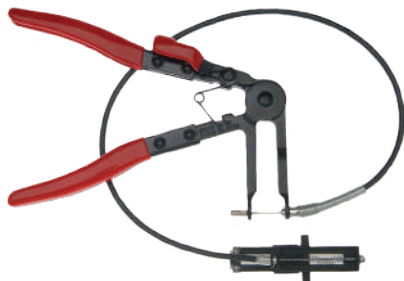


Ref.	Ømax	
T51862	Ciegos	0,3



ELASTIC FLANGE PLIERS

T51875



Wire rope pliers suitable for the most popular car manufactures and light commercial Vehicles.
For use on re-useable spring band type hose clamps.

**Bullet points**

- Ratcheting action with quick release.

Ref.	Lenght	Ømax	Ømin	
T51875	600			0,6

PLASTIC TUBE CUTTER

T51920



Hose cutter for refrigeration, carb, fuel, etc.

Bullet points

- Stainless steel blade .
- Resistant molded plastic.



Ref.	Ø	Lenght	Type	
T51920	32	215	Alicate	0,1



PIPE FLATING TOOL

5060



This tool makes either convex or double as per DIN and SAE normatives lap flares.

Para tubos 4, 5, 6, 8, 10, 12 y 15 mm de diámetro.



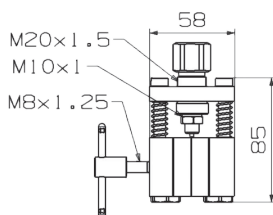
Ref.	Ømin	Ømax	
5060	4	15	0,9

BRAKE PIPES FLARING TOOL

5061



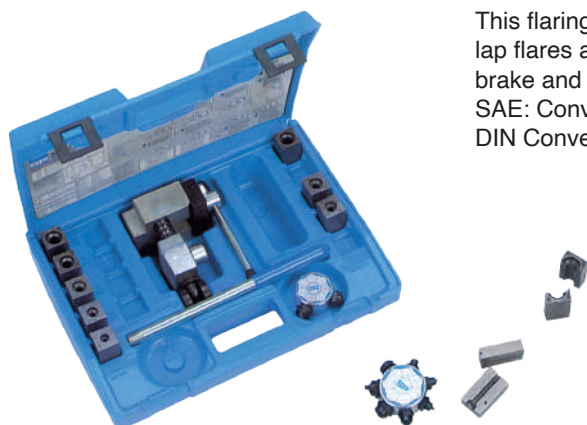
Suitable for copper or iron pipes.
Convex SAE flare, double SAE flare and DIN flare can be realized.



Ref.	Ømin	Ømax	
5061	4,75	6	1,4

FLARING TOOLS KIT

0270020




This flaring tool makes quickly and accurately convex and double lap flares according to SAE and DIN standards for automotive brake and clutch pipes.

SAE: Convex Single: 3/16" 4,75, 6, 8, 10 mm.

DIN Convex Single: 4,75mm.



Ref.	Tubes	Tubes	
027002	3/16"	4,75-10mm	5,5
027008	3/16"- 1/4"- 5/16"-3/8"-1/2"	4,75-12mm	6,3



PIN PUNCH WITH HANDLE 87100B



Cylindrical pushers have a long tip and are often used to push pins or parts such as bolts into spaces limited by the size of the hole. They are used throughout the industry to make markings, adjustments or moving parts in general.



Being an impact tool, it can help us in many situations in which the pieces get stuck and there is no way to move them.

Bullet points

- Bi-material anti-rebound handle to prevent damages from shock.

Ref.	Lenght	Body	Ø	⚖️
871003B	150	10	3	0,1
871004B	150	10	4	0,1
871005B	150	10	5	0,1
871006B	150	10	6	0,1
871008B	150	12	8	0,1

PIN PUNCH WITH HANDLE EXHIBITOR 87100E



Cylindrical pushers have a long tip and are often used to push pins or parts such as bolts into spaces limited by the size of the hole. They are used throughout the industry to make markings, adjustments or moving parts in general.



Being an impact tool, it can help us in many situations in which the pieces get stuck and there is no way to move them.

Bullet points

- Bi-material anti-rebound handle to prevent damages from shock.

Ref.	⚖️	Pin punch
87100E	0,7	871003B - 871004B 871005B - 871006B 871008B

PIN PUNCHES IN TUBULAR BOX 87100C



Cylindrical pushers have a long tip and are often used to push pins or parts such as bolts into spaces limited by the size of the hole. They are used throughout the industry to make markings, adjustments or moving parts in general.



Being an impact tool, it can help us in many situations in which the pieces get stuck and there is no way to move them.

Bullet points

- Bi-material anti-rebound handle to prevent damages from shock.

Ref.	⚖️	Pin punch
87100C	5,2	871003B - 871004B 871005B - 871006B 871008B



PIN PUNCHES

87200B



Cylindrical pushers have a long tip and are often used to push pins or parts such as bolts into spaces limited by the size of the hole. They are used throughout the industry to make markings, adjustments or moving parts in general. Being an impact tool, it can help us in many situations in which the pieces get stuck and there is no way to move them.



Ref.	Lenght	Body	Ø	⚖️
872003B	150	10	2	0,1
872004B	150	10	3	0,1
872005B	150	10	4	0,1
872006B	150	10	6	0,1
872008B	150	12	8	0,1
872010B	150	12	10	0,1

PIN PUNCHES BOX

87200C



Cylindrical pushers have a long tip and are often used to push pins or parts such as bolts into spaces limited by the size of the hole. They are used throughout the industry to make markings, adjustments or moving parts in general. Being an impact tool, it can help us in many situations in which the pieces get stuck and there is no way to move them.



Ref.	⚖️	Pin punch
87200C	0,6	872003B - 872004B 872005B - 872006B 872008B - 872010B

PIN PUNCHES EXHIBITOR

87200E



Cylindrical pushers have a long tip and are often used to push pins or parts such as bolts into spaces limited by the size of the hole. They are used throughout the industry to make markings, adjustments or moving parts in general. Being an impact tool, it can help us in many situations in which the pieces get stuck and there is no way to move them.



Ref.	⚖️	Pin punch
87200E	0,5	872003B - 872004B 872005B - 872006B 872008B - 872010B



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