Since FORZA® 1969

www.forza.es

CATALOGUE

HAND TOOLS

FOR INDUSTRIAL MAINTENANCE

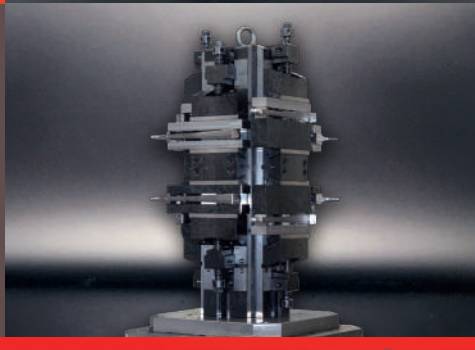
EASY TOOLS

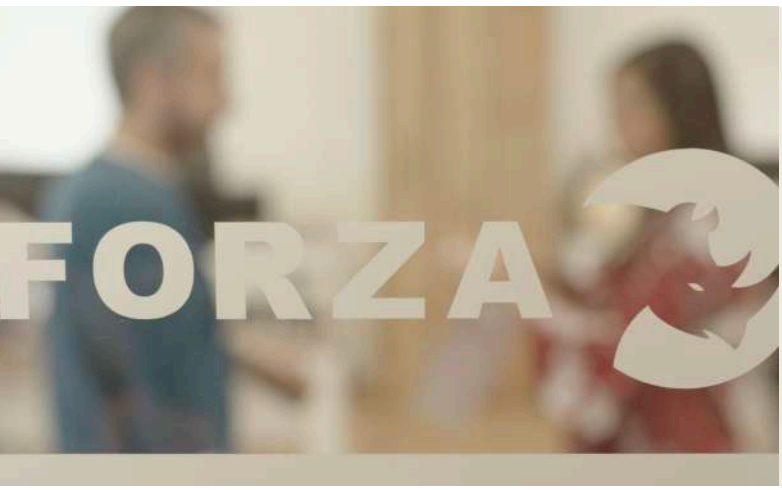


PULLERS



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 thrist for new products and tools and manufacturing process development.

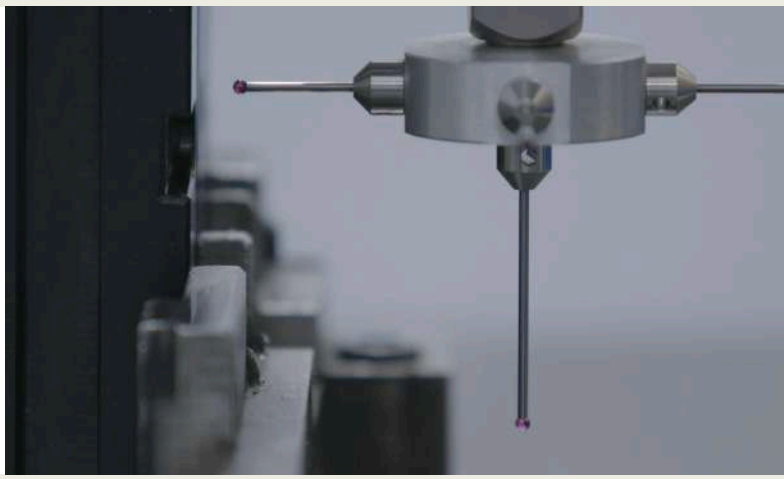
Throughout this time, Forza has been faithful to the values that inspired him.

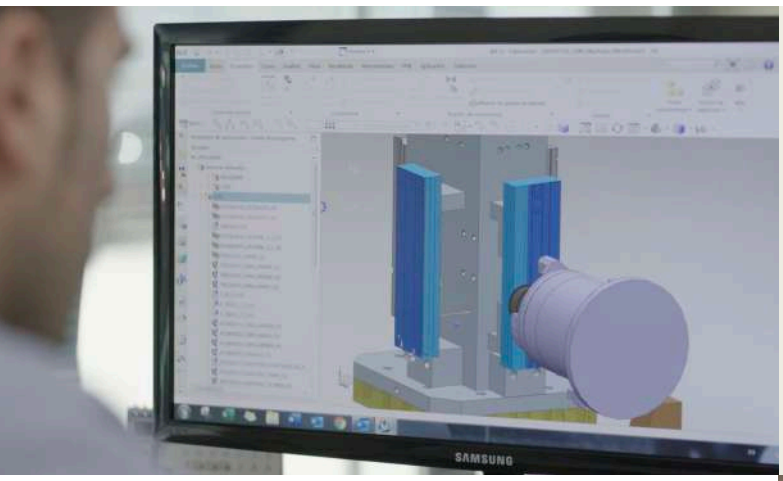
THE TOP QUALITY OF THE TOOLS IT IS OUR BEST GUARANTEE

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



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SALES CONDITIONS

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!!!

Forza Herramientas S.L.

Forza Herramientas

Forza Herramientas_tools

Download our latest tariff

Here you will find the current price list.

Also in excel format!







MECHANICAL PULLERS







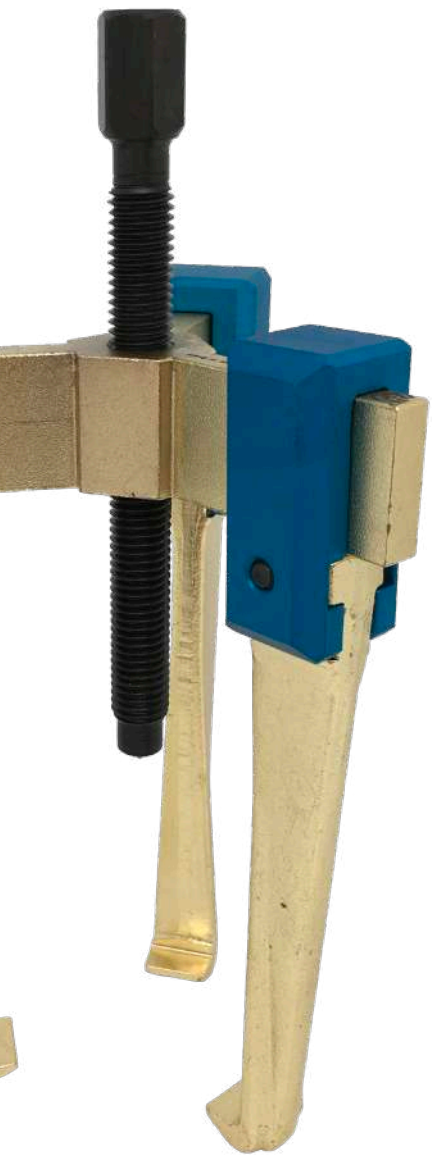


FORZA®

PULLERS:

Designed by FORZA sice 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.



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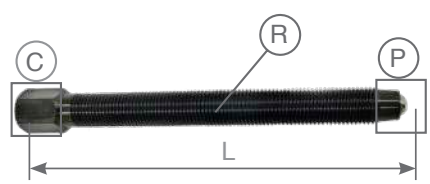
MECHANCAL SPINDLES

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 / K0-10 / C0-10	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	T	■
912031	9120✦ / 9122✦ / 9124✦	M22 x 2	317	⬡ 26	≋
170403	1700-4	M26 x 2	160	T	■
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	T	
550303	5503 / 5504 / 5505	3/4" GAS 14h	220	⬡ 27	■
244003	2440✦ / 2450✦	1" GAS 11h	338	⬡ 35	■

✦All versions

≋ Retractable
T With handle
■ Dummy
■ Fixed
■ With ball



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

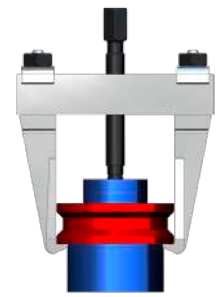


Two-jaws rigid puller for external and, occasionally,internal applications.
One-piece forged jaws and push-puller body.

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.





										Repuesto	Accesorio	Repuesto
Ref.	SQUARE SPINDLE	Ref.	HEXAGONAL SPINDLE	A	B Max	B min	C	E		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

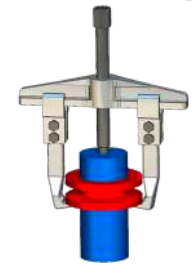


2 JAWS SERIE 2400 — 2400



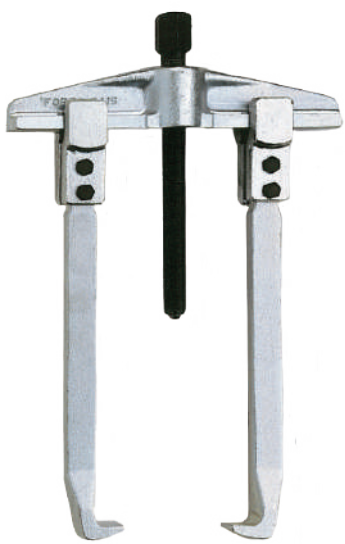
Two-jaws rigid puller for external and, occasionally,internal applications.
Forged jaws with clamps and screws and hexagon head spindle.

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



Ref.	A	B max	B min	C		Repuesto Spindle	Repuesto 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.	A	B max	B min	C		Repuesto Spindle	Repuesto 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

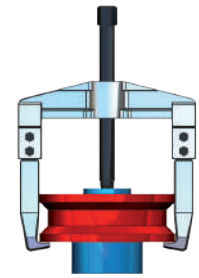
3 JAWS SERIE 2400T — 2400T



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

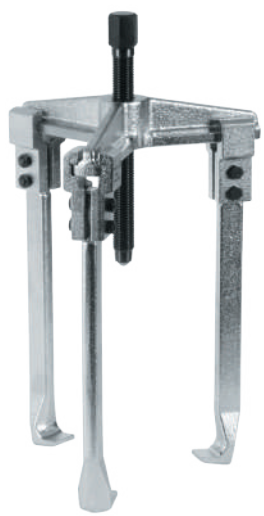
Bullet points

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



Ref.	A	B max	B min	C		Repuesto Spindle	Repuesto 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



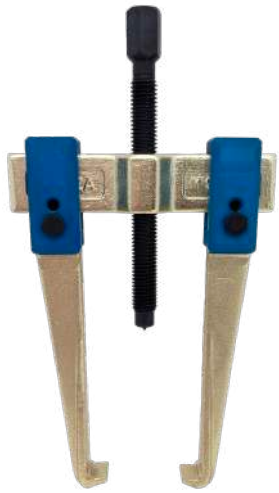
Three-jaws rigid puller for external and, occasionally, internal applications.
Forged jaws with clamps and screws and hexagon head spindle.

Bullet points

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

Ref.	A	B max	B min	C		Repuesto Spindle	Repuesto 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.	A	Bmax	B min	C		Spare part: Spindle	Spare part: Complete jaw	Accessories: 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

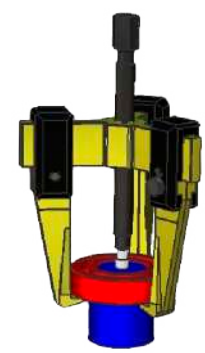
3 JAWS SERIE 9000T — 9000T



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 series 1000.
- Brassed plated finish.



Ref.	A	Bmax	B min	C		Spare parts: Spindle	Spare parts: Complete jaw	Accessories: 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

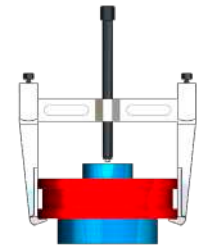
2 JAWS SERIE 9100 — 9100



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 bronce nut for protection.



Ref.	A	Bmax	B min	C	Spindle extension		Spare parts: Spindle	Spare parts: Complete jaw	Spare parts: 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

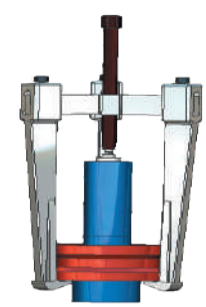
3 JAWS SERIE 9100T — 9100T



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

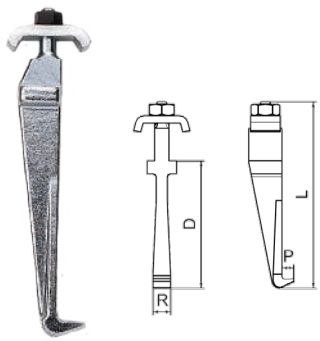
Bullet points

- 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.



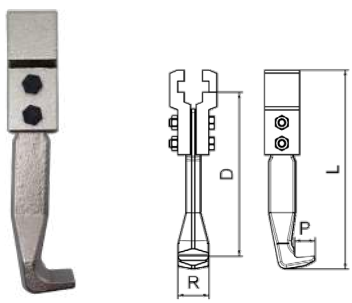
Ref.	A	Bmax	B min	C		Spare parts: Spindle	Spare parts: Complete jaw
9120LT	380	200	30	280	14,6	912031	912060
9120T	200	210	50	280	8,0	912031	912050

COMPLETE FIX JAW SERIE 1000



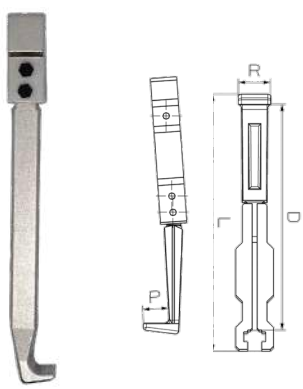
Ref.	Total jaw length (L)	Jaw width (R)	Shovel depth (P)	Useful jaw length (D)	⚖
100150	77,7	9	5	51	0,1
100250	127	12	8	80	0,2
100260	184	15	8	137	0,3
101050	227	26	17	160	0,7
101060	285	28	17	220	1,0
102050	354	36	18,5	260	2,3
102060	455	35	24	390	3,7
102055	354	36	18,5	260	2,3
102065	455	35	24	390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

COMPLETE FIX JAW SERIE 2400-2400T



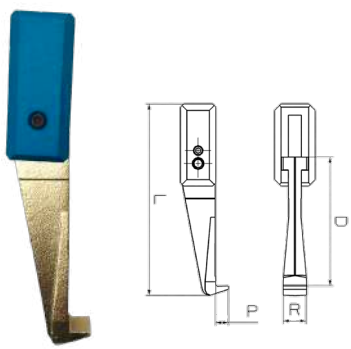
Ref.	Total jaw length (L)	Jaw width (R)	Shovel depth (P)	Useful jaw length (D)	⚖
A90	125	20,5	12,5	100	0,5
B150	187	25	15	155	1,0
C200	255	35	24,5	205	2,0
D225	270	49,5	38	225	5,1

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

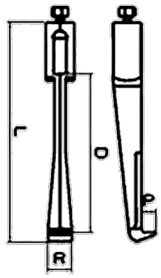
COMPLETE FIX JAW SERIE 9000-9000T



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 centr 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.

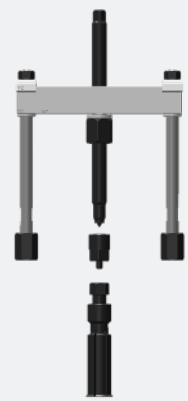
Bullet points

- 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.

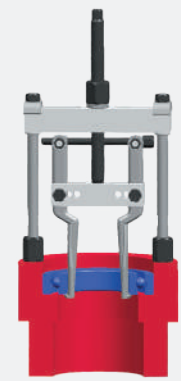
COMBINATIONS OF 1100 WITH INTERNAL PULLERS AND SPLITTERS



1100-1200



1100-4000



1100-1500

								Spare parts		Accessories		
Ref.	A	B_{Max}	B_{Min}	C	Compatible jaw	Body type		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	A	B Max	B Min	C	Compatible jaw		Spare parts: Extender	Spare parts: Nut enlace	Accessories: Other extensions	Accessories: 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.

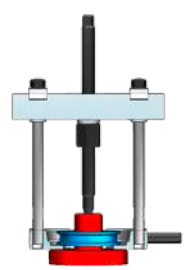
Ref.	B Max	B min	A	Conection	Combines		Spare parts: Spindle
1202A	60	4	60	3/8”	1102-1103	0,8	120230
1203A	81	6	80	3/8”	1102-1103	1,3	120330
1204B	110	10	110	5/8”	1110H-1108H	2,8	120430
1206B	134	12	155	5/8”	1118H-1110H	5,7	120630
1208B	210	13	180	5/8”	1128-1120	12,5	120830
1208C	210	13	180	1”	1135-1130H	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

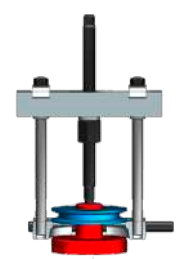


Space jaw puller.
It combines with 1100, 1100S mechanical pullers series and with the 1100H hydraulic puller series.
Thanks to its reduced thickness it can be used in small spaces.

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



Position A



Position B

Ref.	B Max	B min	A	Conection	Combines		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

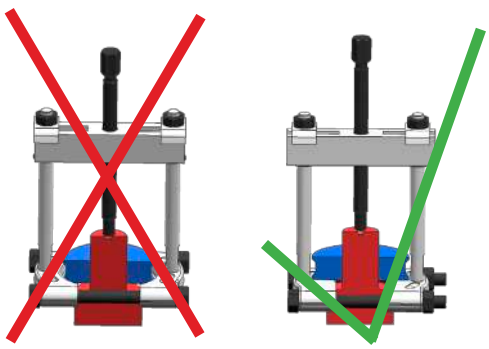


The pullers 1100 combines with the serie 1200 of splitters.
As a measure of the pulley to be pulled out, do not take the maximun of the splitter but the distance between extenders.
Spindle nuts beneath the body external pulling.
The part to pull out must rest against the flat side of the splitter.

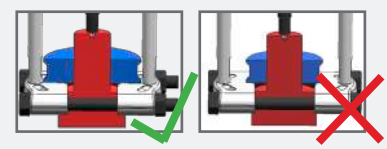
Bullet points

- The push puller is also suitable for internal extractions.

Ref.	A	B	C	
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 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 maximun of the splitter but the distance between extenders.
The part to pull out must rest against the flat side of the splitter.

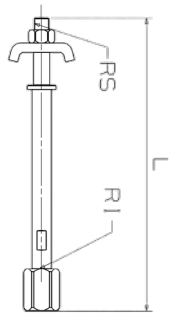
Bullet points

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

Ref.	A	B	C	
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

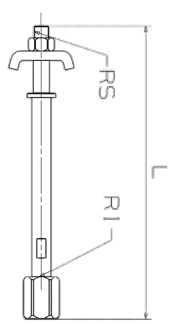
EXTENSIONS FOR SERIE 1100-1100S



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

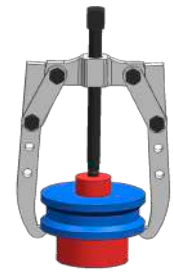


2 JAWS SERIE 1300 — 13000



2 oscilating jaw puller.
Jaws with 2 holes.

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



Ref.	A	B max	B min	C		Spare parts: Spindle	Spare parts: Complete jaw	Accessories: 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 oscilating jaw puller.
Jaws with 3 holes.

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



Ref.	A	B max	B min	C		Spare parts: Spindle	Spare parts: Complete jaw	Accessories: 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 oscilating jaw puller.
Extra long jaws with 4 holes.

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

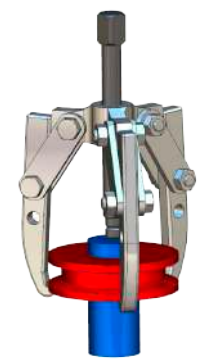
Ref.	A	B max	C		Spare parts: Complete jaw	Spare parts: Spindle
1310X	475	390	160	7,6	131066	131031
1317X	595	540	280	15,1	131766	131731
1330X	710	720	325	34,5	133066	133031
1350X	1050	1080	402	62,3	135266	135032

3 JAWS SERIE 1300T — 1300T0



3 oscilating 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 bronce nut for protection.



Ref.	A	B max	B min	C	Position		Spare parts: Spindle	Spare parts: Complete jaw	Accessories: Point protector	Spare parts: 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 oscilating 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 bronce nut for protection.

Ref.	A	B max	B min	C	Position		Spare parts: Spindle	Spare parts: Complete jaw	Accessories: Point protector	Spare parts: 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

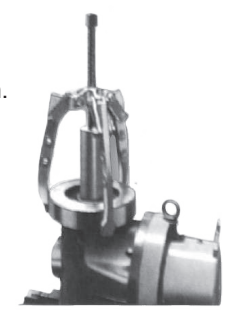
3 EXTRA LONG JAWS MANUAL SERIE 1300X — 1300XT



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

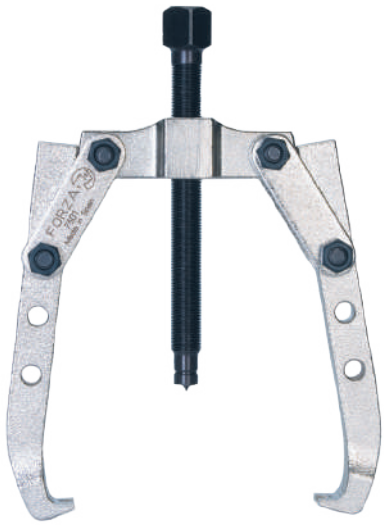
Bullet points

- 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 bronce nut for protection.



Ref.	A	B max	C	Position		Spare parts: Complete jaw	Spare parts: Spindle	Spare parts: 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

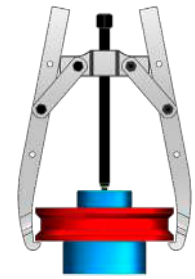
2 JAWS SERIE 7300 — 7300



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

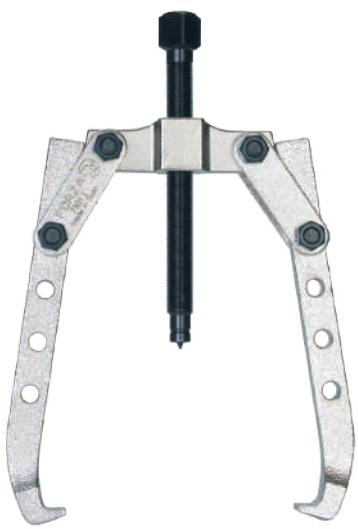
Bullet points

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



Ref.	A	Bmax	C		Spare parts: Jaw	Spare parts: Spindle	Accessories: 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

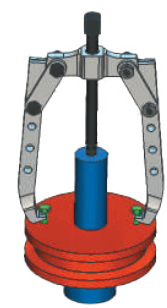
2 LONG JAWS 7300L SERIE — 7300L



2 oscilating 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.	A	Bmax	C		Spare parts: Jaw	Spare parts: Spindle	Accessories: 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 oscilating 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.	A	Bmax	C	Position		Spare parts: Jaw	Spare parts: Spindle	Accessories: 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 oscilating 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.	A	Bmax	C	Position		Spare parts: Jaw	Spare parts: Spindle	Accessories: 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

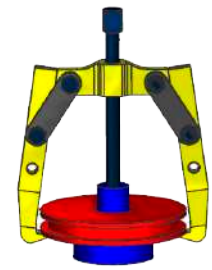
2 JAWS SERIE 9300 — 93000



2 oscilating 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.
- Brassed plated finish.
- Thin jaws to access to small places.



Ref.	A	B max	C		Spare parts: Spindle	Spare parts: Jaw	Accessories: 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 oscilating 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.
- Brassed plated finish.
- Improved extraction with three points of support.
- Thin jaws to access to small places.

Ref.	A	B max	C	Position		Spare parts: Spindle	Spare parts: Jaw	Accessories: 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 bronce 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.	A	B max	B min	C	Position		Spare parts: Jaw	Spare parts: Spindle	Accessorie: Point protector	Spare part: 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 limitg.
The 2 largest pullers have a bronce 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.	A	B max	C	Position		Spare parts: Jaw	Spare parts: Spindle	Spare parts: 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.

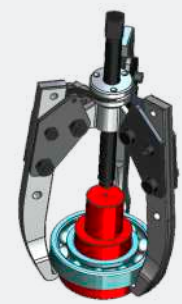
Bullet points

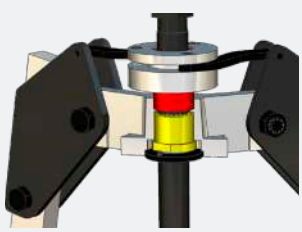
- Different jaw positions.
- Square head spindle for a better grip with a wrench.
- Self-centring system: automatic centring of the jaws for better grip.
- Jaws with slotted for pulling screws.
- Improved extraction with three points of support.

Ref.	A	B max	C		Spare parts: Jaw	Spare parts: Spindle	Accessories: 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?

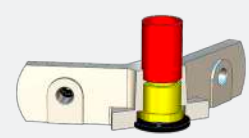
- All the jaws move at the same time.
- Offers easier positioning of the puller even in difficult to get at place.
- The self centering puller is safe thanks to its kaw device in max spread position.
- Working wit the extractor more open implies:
  - Incorrect support of the legs.
  - Risk of loosening.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



PULLERS REPAIR KIT





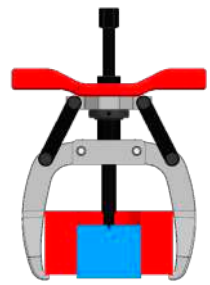
Ref.	
9130K1	0,2
1317TK1	0,3
1330TK1	0,5

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 slide hammer.



Ref.	A	Bmax	B min	C	D	H	R		Spare parts: Spindle	Spare parts: Jaw	Accessories: Point protector	Accessories: 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

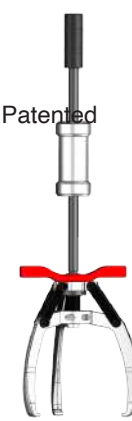


3 Self-centering jaw puller.
Opening of the jaws with the red handle.

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



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



Ref.	A	Bmax	B min	C	D	H	R		Spare parts: Spindle	Spare parts: Jaw	Accessories: Point protector	Accessories: 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 os 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.

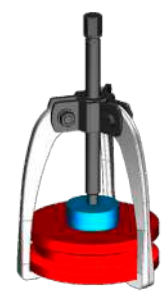
Ref.	A	Bmax	C		Spare parts: Spindle	Spare parts: Jaw
2741	80	80	77	0,5	274103	274105
2743	116	122	91	0,9	274303	274305
2745	160	161	102	1,8	274503	274505
2748	200	202	134	3,3	274803	274805

3 JAWS LIGHT PULLER SERIE 2740T — 2740T



3 self centering light puller.
This serie has the characteristic that the legs interlock nut os 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.	A	Bmax	C		Spare parts: Spindle	Spare parts: 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.

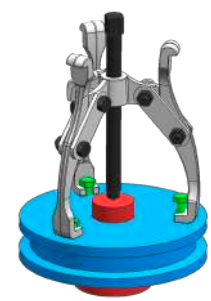
Ref.	A	B max	C		Spare parts: Jaw	Spare parts: Spindle	Accessories: Point protector
1401	65	80	70	0,4	140150	130103	P0001
1404	85	150	80	1,0	140450	130403	P0004
1407	135	200	108	2,1	140750	130703	P0004
1408	125	250	160	2,4	140750	130703	P0004
1410	260	320	161	4,5	141050	131031	-

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.	A	B max	C	Position		Spare parts: Jaw	Spare parts: Spindle	Accessories: 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.	A	B max	C		Spare parts: Jaw	Spare parts: Spindle	Accessories: 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

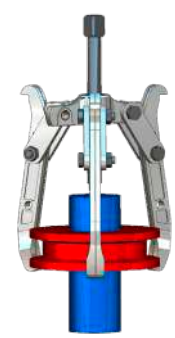
3 LONG JAWS SERIE 1400LT — 1400LT



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.	A	B max	C	Position		Spare parts: Jaw	Spare parts: Spindle	Accessories: 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

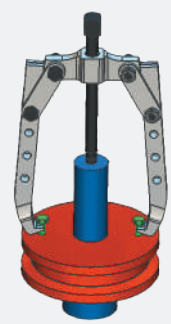
REVERSIBLE JAW SERIE 1400L-1400LT

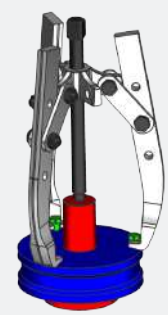


Ref.	Total jaw length (L)	Jaw width (R)	Shovel depth (P)	Useful jaw length (D)	⚖
140160	107	8	7	85	0,1
140460	176	10	11,5	135	0,9
140760	260	13	15	180	0,9



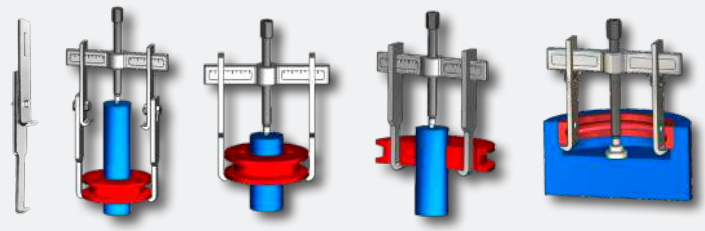
Jaws with a slotted to pull with screw.





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

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.	A	B Max	C		Spare parts: Jaw	Spare parts: Point protector
1810-42	182	250	280	5,0	181031 181032 181044	181037

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.	A	B Max	C		Spare parts: Spindle	Spare parts: Jaw	Spare parts: 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.



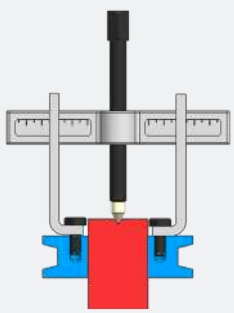
Ref.	A	B Max	C		Spare parts: Spindle	Spare parts: Jaw	Spare parts: Point protector
1805-C	140	173	186	2,9	180530	180531 180532 180533 180534	180537
1810-C	182	250	280	6,5	181030	181031 181032 181033 181034	181037

MULTIPURPOSE JAW SERIE 1800-1800T-1800C



31 32 33 34 44

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

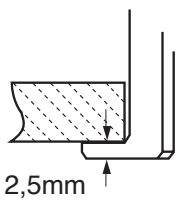
COMPLETE SPINDLES WITH POINT FOR SERIE 1800-1750



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



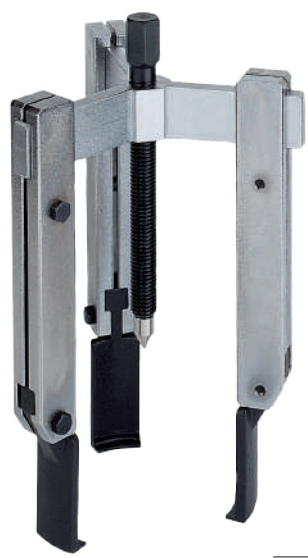


2 thin jaw puller for external applications.
Spindle with 60° rotating point.
Make sure that the jaws are well supported on the workpiece to be extracted.

Bullet points
- Very slim jaws for access to narrow places.

Ref.	A	B max	B min	C		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.	A	B max	B min	C		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	

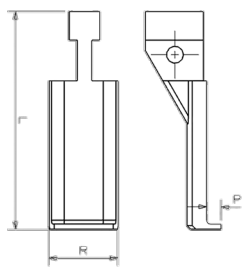
COMPLETE THIN JAW SERIE 1750-1750T



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



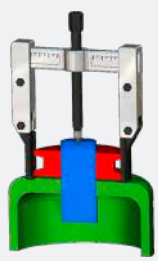


Ref.	Shovel depth (P)	Total length (L)	Jaw width (R)	
175005	2,5	90	27	0,1

Thin jaws puller

Best extractions for narrow places

Correct use of jaws to avoid breaks

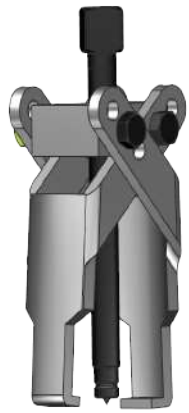






SCICSSORS PULLER SERIE 2640 — 2640





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

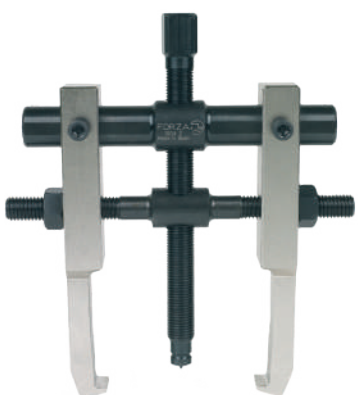
Bullet points
- Square head spindle for a better grip with a wrench.
- Thin jaws for easy access to tight places.

2641E



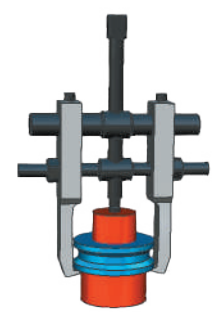
Ref.	A	B max	A2	B max2	Jaw type		Spare parts: Jaw	Spare parts: Spindle	Accessories: Point protector
2641	90	55	90	95	Crossed and deployed	0,4	264105 264106	130103	P0001
2641E	90	55	90	95	Thin crossed and deployed	0,4	264115 264116	130103	P0001
2642	125	70	120	125	Crossed and deployed	0,8	264205 264206	130403	P0004
2643	125	80	160	125	Crossed and deployed	1,0	264305 264306	264303	P0004

EXTERNAL PULLER SERIE 1900E — 1900E



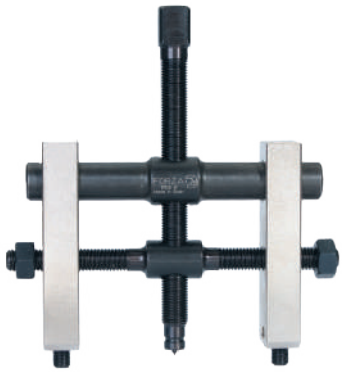
External bearing puller.
Includes side spindle so you can press the jaws.

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



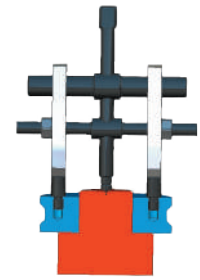
Ref.	A	B max	B min	E		Spare parts: Jaw	Spare parts: Spindle	Accessories: Point protector
1904E	83	130	30	3	1,7	190415	130403	P0004
1907E	105	253	55	4	3,8	190715	130703	P0004

2 THREADED JAWS PULLER SERIE 1900R — 1900R



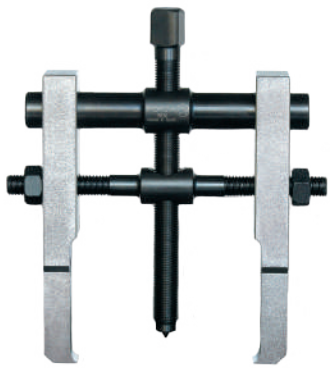
Mounted as a push puller for pulling threaded holes.
Includes side spindle so you can press the jaws.

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



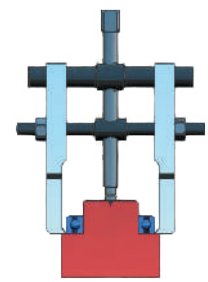
Ref.	A	Bmax	B min	C	Conection		Spare parts: Male adaptor	Spare parts: Spindle	Accessories: Point protector
1904R	50	140	42	87	3/8" 24h	1,7	1102306 - 1102308 1102310 - 1102312 110231-2	130403	P0004
1907R	66	253	67	110	5/8" 18h	4,5	1110312 - 1110314 1110316 - 1110318 1110320	130703	P0004

BEARING PULLER SERIE 1900 — 1900



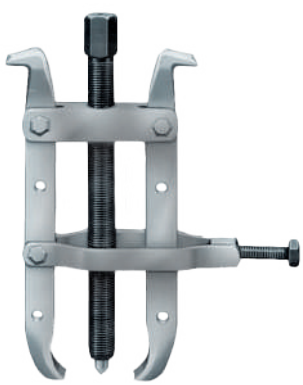
Bearing separator.
Mechanical puller.
Includes side spindle so you can press the jaws.

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



Ref.	A	Bmax	B min		Spare parts: Jaw	Spare parts: Spindle	Accessories: 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.	A	B		Spare parts: Spindle	Spare parts: Jaw
2791	175	95	2,4	279103	279105

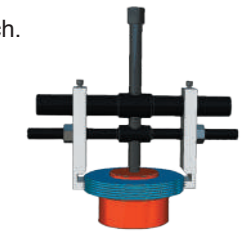
V-BELT PULLERS 1900V



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

JAW FOR SCICSSORS 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

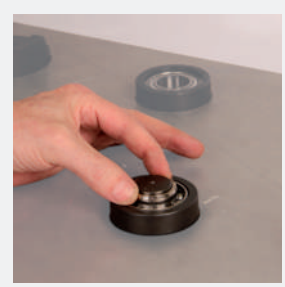
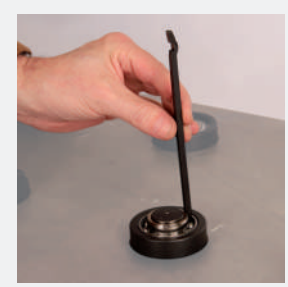
SPINDLE PULLER 1600-1

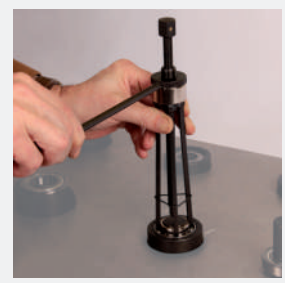


Ref.	Thread	L (Length)	C (Distance between faces)	Head	Point	⚖
160103	M10 X 1,5	215	17	Hexagonal	Dummy	0,1
160203	M14 X 1,5	235	20	Hexagonal	Dummy	0,4
160303	M18 X 1,5	315	24	Hexagonal	Dummy	0,6

Correct use instructions




BALL BEARING PULLERS SERIE 1700 — 1700



Bearing puller separator.
It is used mainly when the bearing is not accesible 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.					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.		
170608	608 & 627	0,1
170609	609	0,1
170626	626	0,1
170629	629	0,1
176000	6000	0,1
176001	6001	0,1
176002	6002	0,1
176003	6003	0,1
176200	6200	0,1
176201	6201	0,1
176202	6202	0,1
176203	6203	0,1
176300	6300	0,1
176301	6301	0,1

Ref.		
176302	6302	0,1
176004	6004	0,2
176005	6005	0,2
176204	6204	0,2
176205	6205	0,2
176206	6206	0,2
176303	6303	0,2
176304	6304	0,2
176305	6305	0,2
176306	6306	0,2
176006	6006	0,4
176007	6007	0,4
176008	6008	0,4
176207	6207	0,4

Ref.		
176208	6208	0,4
176209	6209	0,4
176307	6307	0,4
176308	6308	0,4
176309	6309	0,4
176010	6010	0,7
176011	6011	0,7
176012	6012	0,7
176210	6210	0,8
176211	6211	0,7
176212	6212	0,7
176310	6310	0,7
176311	6311	0,7
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





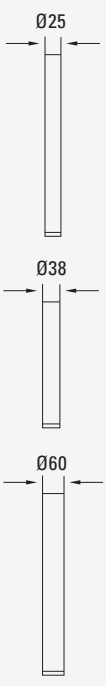
Highly useful for mounting bearings.
The 33 aluminium rings are used for mounting and dismounting pulley, sheels...
Includes anti-rebound hammer and 3 aluminium tubes.

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 493212 493215 493510 493515 493517 493712 494017 494215 494220 494717	494720 - 494725 495220 - 495225 495530 - 496225 496230 - 496235 496840 - 497230 497235 - 497545 498035 - 498040 498050 - 498545 499040 - 499050 4910045

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
10 10 10	26 30 35	6000-16100 6300	7208	129 1200-2200	3200				
12 12 12	28 32 37	6001-16101 6201 6301	7201B 7301B	1201-2201	3201				
15 15 15	32 35 42	6002-16002 6202 6302	7202B 7302B	1202-2202 2302	3202 3302		202	30202 30302	
17 17 17	35 40 47	6003-16003 6203 6303	7203B 7303B	1203-2203 1303-2303	3203 3303		203 303	30203 30303	32203 32303
20 20 20	42 47 52	6004-16004 6204 6304	7204B 7304B	1204-2204 1304-2304	3204 3304	21304	204 304	32004 30204 30304-31304	32304
25 25 25	47 52 62	6055-16005 6205 6305-6404	7205B 7305B	1205-2205 1305-2305	3205 3305	22205 21305	1005 205 305	32005 30205 30305-31305	32205-33205 32305
30 30 30	55 62 72	6006-16006 6206 6306-6405	7206B 7306B	1206-2206 1306-2306	3206 3306	22206 21306	1006 206 306	32006 30206 30306-31306	32206-33206 32306
35 35 35	62 72 80	6007-16007 6207 6307-6406	7207B 7307B	1207-2207 1307-2307	3207 3307	22207 21307	1007 207 307	32007 30207 30307-31307	32207-33207 32307
40 40 40	68 80 90	6008-16008 6208 6308-6407	7208B 7308B	1208-2208 1308-2308	3208 3308	22208 23208	1008 208 308	32008 30208-33108 30308-31308	32208-33208 32308
45 45 45	75 85 100	6009-16009 6209 6309-6408	7209B 7309B	1209-2209 1309-2309	3209 3309	22209 23209	1009 209 309	32009-33009 33109-30209 30309-31309	32309
50 50 50	80 90 100	6010-16010 6210 6310-6409	7210B 7310B	1210-2210 1310-2310	3210 3310	22210 23210	1010 210 310	32010-33010 33110-30210 30310-31310	32210-33210 32310

BALL BEARING PULLERS SERIE 4100 — 4100S

Ball bearing puller set in case.
The 4100 serie 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



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 setbalss.

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
410011	5,3
410012	6
410013	8
411013A	8
411014	9
411015	11
411016	12,6

Ref.	Ø
411017A	16
412507	16
412508	19
412509	22
412510	25
412511	28
412512	31,5

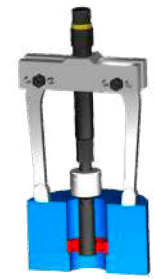
INTERNAL COLLETS SERIE 2500 25000



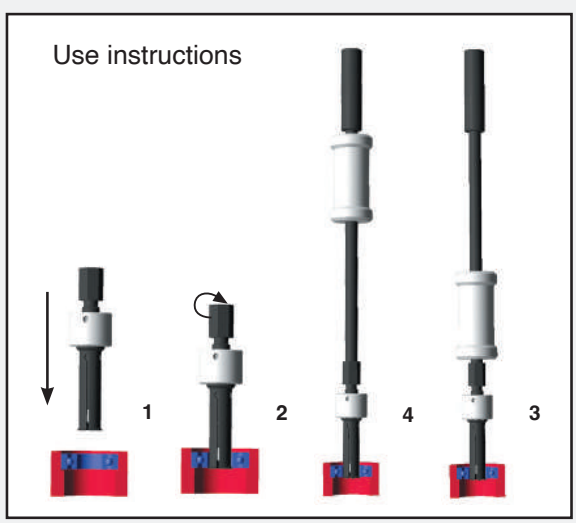
Collet type internal puller.
Made in CrVa steel.
With 2 system of extraction: slide hammer and push puller with jaws.

Bullet points

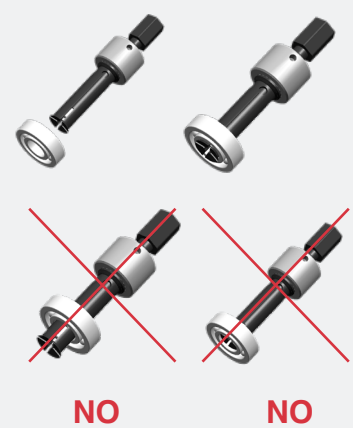
- Compatible with two extraction systems.
- Perfect for extractions without space under the workpiece.



Ref.	Ømax	Ømin	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 botton 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 calper 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: Spindle	Accessories: Collet	Spare part: Push puller	Spare part: 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: Slide hammer	Accessories: Push puller	Spare part: Spindle	Spare part: Collet	Spare part: 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



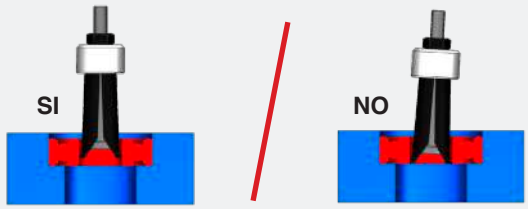
Collet type internal puller.
Elastic collet type from 2 to 6 cuts depending of the diameter
Made in CrVa steel.
With 2 system of extraction: slide hammer 4390(1kg) and 4393(2kg) and push puller with jaws 4392 without adapters.

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.

						Accessories		Spare parts			
Ref.	Ømax	Ømin	M			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 carful NOT to insert the forceps bent as it may break durig 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 straigt 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.

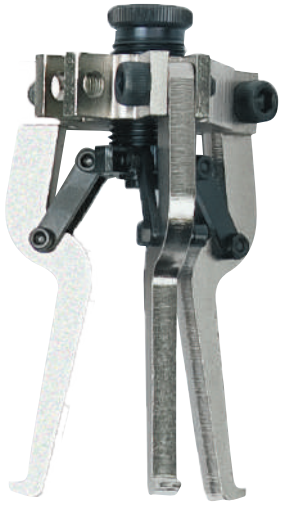
Ref.	External Diameter	L (Length)	⚖
431250	33	150	0,1
434750	45	170	0,2

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.	Ø int	Ø ext	A (Useful jaw height) with 470205	A (Useful jaw height) with 470215	⚖	Spare parts: Spindle	Spare parts: 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.	Ø int	Ø ext	Slide hammer	Includes	⚖	Spare parts: Spindle	Spare parts: Internal jaw	Spare parts: 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.





						Spare parts		
Ref.	ø int	ø ext	A(Useful heigh) with 470405	A(Useful heigh) with 470415		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.

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

INTERNAL JAW PULLERS SERIE 4708 — 4708



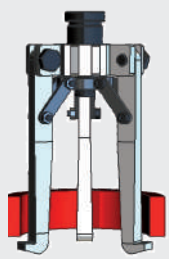


Three-jaw internal puller.
It can be mounted with the push puller 1120.

Bullet points

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

Ref.	ø int	ø ext	A		Accessorie: Push puller	Spare part: Spindle	Spare part: 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

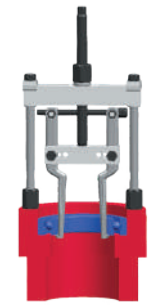


Internal puller.
Can be mounted with push puller 1100.
1506 and 1507 can be used with the slide hammer 4394 and 4396.

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.	A	B max	B min	C	R1	R2		Accesorio: Push puller	Repuestos: Spindle	Repuestos: 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

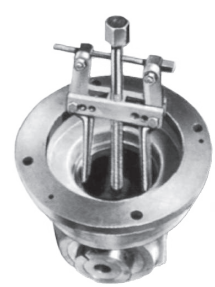
INTERNAL SERIE 1500A — 1500A

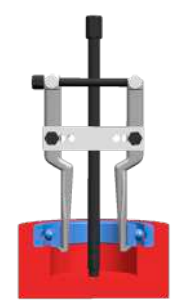


Internal puller with spindle for a direct extraction.
Can be mounted with push puller serie 1100 and slide hammers 4394 and 4396 by removing the spindle.

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.	A	B max	B min	C		Accessories: Push puller	Accessories: Slide hammer	Spare parts: Jaw	Spare parts: 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



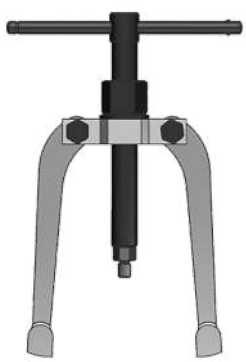
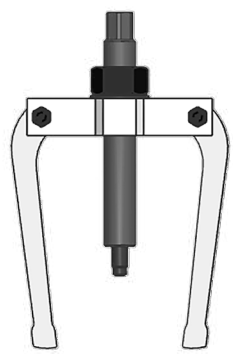


Push puller for the 2500 serie internal collets.
2521 and 2521A have spindle with handle.
2522 and 2523 spindle has hexagonal head.
2523 has articulated jaws for better seating.

Bullet points
- Higher extraction force than the slide hammer.

Ref.	A	B Max	R		Accessorie: Collet	Spare part: 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.	A	B Max	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 all4300 and 4400 collets.
- 3 positioned jaws for different openings.

Ref.	To	Height	Conection	Maximum opening	Jaw useful height	Bodi width		Spare parts: Jaw	Spare parts: 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 adapters M10 and M16 covering all 2500 collets.
4590 includes adaptor 1 x 1/2” 20h to M8 covering al 4000 collets.

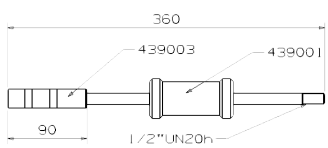
Bullet points

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

Ref.	M	M		Spare part: Slide hammer	Spare part: Female adaptor	Spare part: 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 adapter needed fo serie 4300 and 4400 collets.

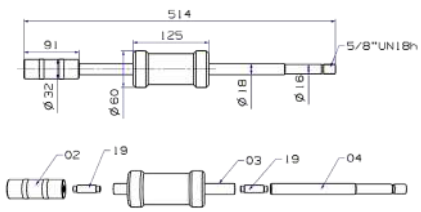
Bullet points

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

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

SLIDE HAMMER SERIE 4396 — 4396

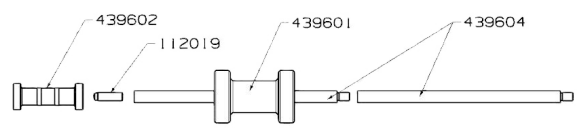




Slide hammer of 5 kg.
A different thread on each side of the bar for mounting various accessories: 1/2” 20h UN and 5/8” 18h UN.

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	Accessories: Female adaptor
4396	1/2”20h	5/8”18h	5Kg	8,6	110231-2 1110312 1110314 1110316 1110318 1110320 11103122 11103124 11103142 11103162 11103202	 11104121 11104122 11104124 11104142 11104162 2525 2526

PNEUMATIC THREADED SPLIT PINS SET 4380



¡Alternative 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 contines	⚖	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 contines	⚖	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 contines	⚖	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) adapter.

Bullet points

- Perfect for extractions without space underneath the workpiece.



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

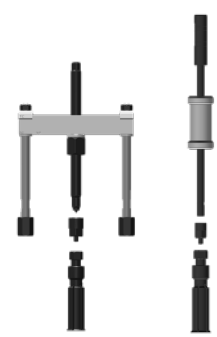
INTERNAL MECHANICAL PULLERS SET Ø6 to Ø62 40-2



Set of 9 internal collets.
With two puller systems: slide hammer 4390 and push puller 1110.
Including adapters 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 contines	⚖	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 contines	
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 contines	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

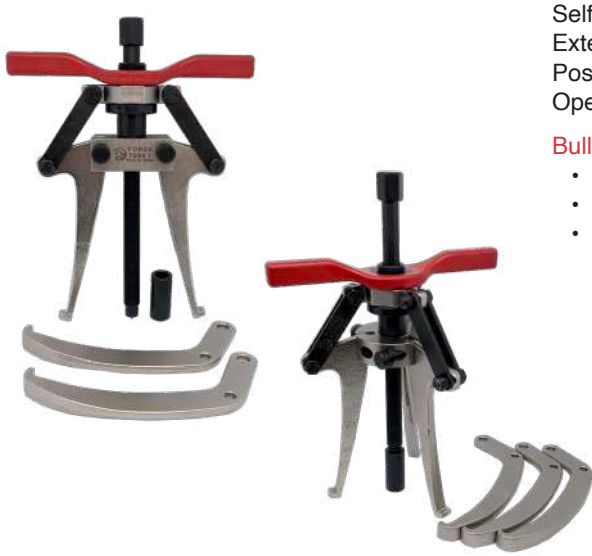


Self-centring, adjustable pullers for internal applications.
The puller 7504I has the possibility to use the slide hammer 4393.
Opening of the jaws with the handle.

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

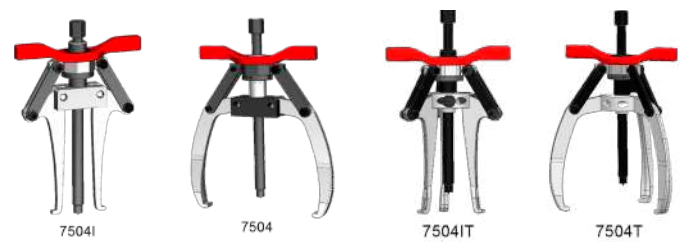
Ref.	Jaws	Ømax	Ømin	Jaw useful height	TON	⚖	Spare parts: Jaw	Spare parts: Spindle
7504I	2	155	40	143	4	2,5	750415	750403
7504IT	3	155	40	143	4	3,6	750415	750403

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	Spare parts: Spindle
7504IC	2	155	143	4	40	2 jaws to convet external	2,9	750405 750415	750403
7504ICT	3	155	143	4	40	3 jaws to convet external	3,2	750405 750415	750403

INTERNAL AND EXTERNAL AJUSTABLE PULLER WITH SLIDE HAMMER C7504B0

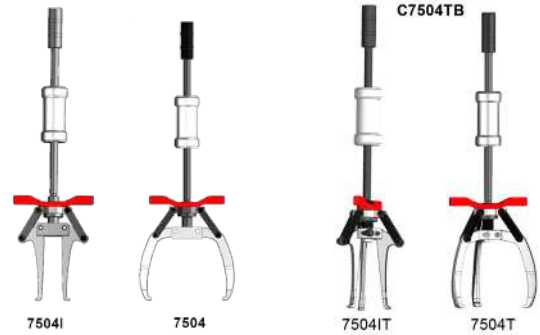




Self-centring, adjustable pullers for external and internal use.
Including slide hammer 4393 and externaljaws.
Opening of the jaws with the handle.

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	Spare parts: 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 convet 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

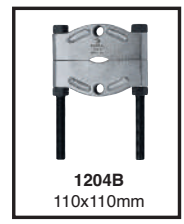
PULLER SET C1110SC WITH CASE — C1110SC

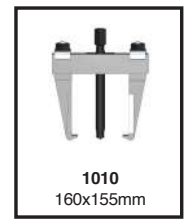


Pullers ,splitters and fixed jaws set .
Supplied in plastic case.

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


1110S
175x195mm


1204B
110x110mm


1010
160x155mm


1110S+extensions
370x195mm

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

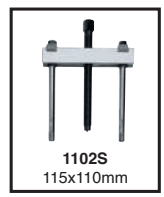
PULLER SET WITH THREADED ADAPTERS 9080



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



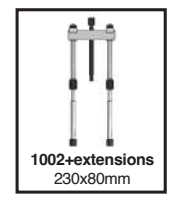
1102S
115x110mm



1202A / 2202A
60x60mm



1002
80x80mm



1002+extensions
230x80mm



Adaptadors

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



1002 80x80mm
1002L 135x80mm



1102
120x110mm

+

1202A
60x60mm

=

1102 - 1202A



1102L
120x278mm



1304
135x150mm



1304T
135x150mm



1404
85x150mm



1404T
85x150mm



5010

PULLER SET 7TM 9087 — 9087



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

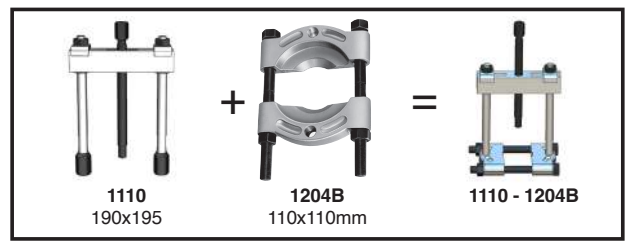
Bullet points

- 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



1010
160x155mm



1110
190x195

1204B
110x110mm

1110 - 1204B



1307L
225x240mm



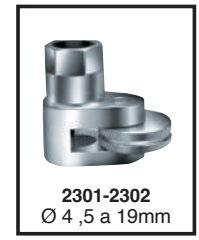
1307LT
225x240mm



1407
125x200mm



1407T
125x200mm



2301-2302
Ø 4 ,5 a 19mm

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 adapter.



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

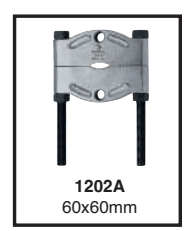
C1102SC PUSH PULLER AND SPLITTER SET + ACCESSORIES — C1102SC



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



1102S
115x110mm



1202A
60x60mm



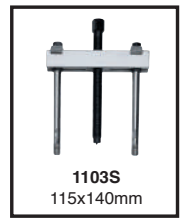
1102S+alargaderas
273x100mm

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 + ACCESSIORES C1103SC



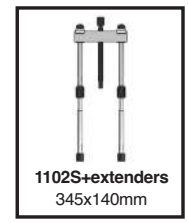
Simple assembly 1103S-1203A with 150mm extenders and joint nuts.



1103S
115x140mm



1203A
81x80mm



1102S+extenders
345x140mm

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

MALE ADAPTOR



Ref.	Conection	Metrics	
438006	M14	M6X1	0,1
438008	M14	M8X1,25	0,1
438010	M14	M10X1,5	0,1
438012	M14	M12X1,75	0,1
438014	M14	M14X2	0,1
438020	M14	1/2" 20h	0,1
438025	M14	M10X 1,5	0,1
438026	M14	M16X2	0,1
1102306	3/8" 24h	M6	0,1
1102308	3/8" 24h	M8	0,1
1102310	3/8" 24h	M10	0,1
1102312	3/8" 24h	M 12	0,1
110231-2	3/8" 24h	1/2" 20h	0,1
1102314	3/8"24h	M14	0,1
1110312	5/8" 18h	M12	0,1

Ref.	Conection	Metrics	
1110314	5/8" 18h	M14	0,1
1110316	5/8" 18h	M16	0,1
1110318	5/8" 18h	M18	0,1
1110320	5/8" 18h	M20	0,1
11103122	5/8" 18h	M12x1,5	0,1
11103124	5/8" 18h	M12x1,25	0,1
11103142	5/8" 18h	M14x1,5	0,1
11103162	5/8" 18h	M16x1,5	0,1
11103202	5/8" 18h	M20x1,5	0,1
4020	1/2" 20h	M8 x 1,25	0,1
196020	1/2" 20h	3/8" 24h	0,1
196021	1/2" 20h	5/8" 18h	0,1
4022	5/8"18h	M8x1,25	0,1
4023	5/8" 18h	1/2" 20h	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



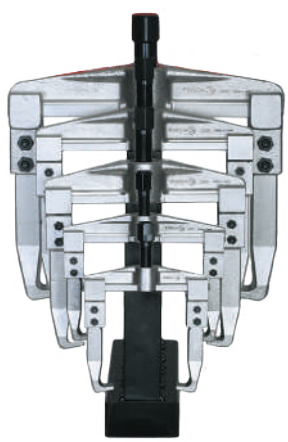
2 fixed jaws puller exhibitor.

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
- Brassed 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:

export@forza.es







HYDRAULIC PULLERS









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



Hydraulic parts 95-96



Extractores hidráulicos de alargaderas y patas 97-98



Solid cylinder extractors 99-100



Hydraulic Oscillating legs pullers 101



Hydraulic self-centering pullers 108-111



100ton puller troley..... 112



Hydraulic bolt puller 113



Hydraulic internal pullers 114-117



CONJUNTOS HIDRÁULICOS



Hydraulic set C1000 118



Hydraulic set CP 119



Hydraulic set CPA 120



Hydraulic set CPN 121



Hydraulic set XP 122



Hydraulic set KP 123

PULLERS WITH HYDRAULIC COMPACT SPINDLE



6&8 tons hydraulic ram pullers 124



8 tons hydraulic ram pullers 125-126



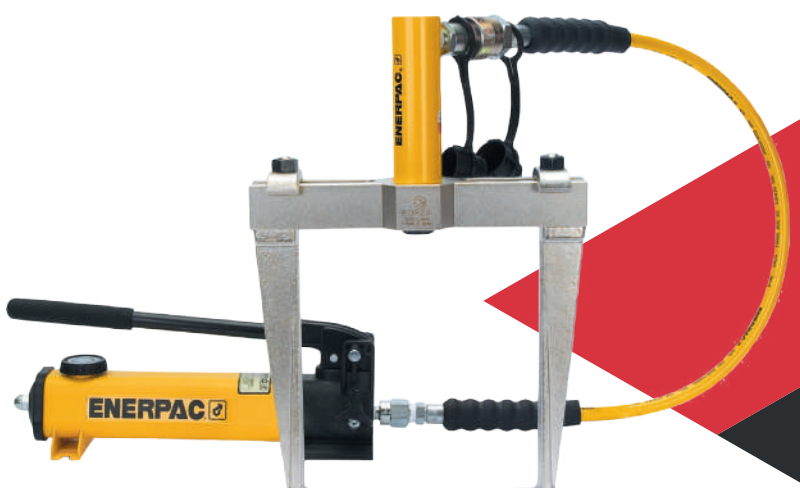
12 tons hydraulic ram pullers 127-129



15 tons hydraulic ram pullers 130-131



Hydraulic compact spindles 132



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

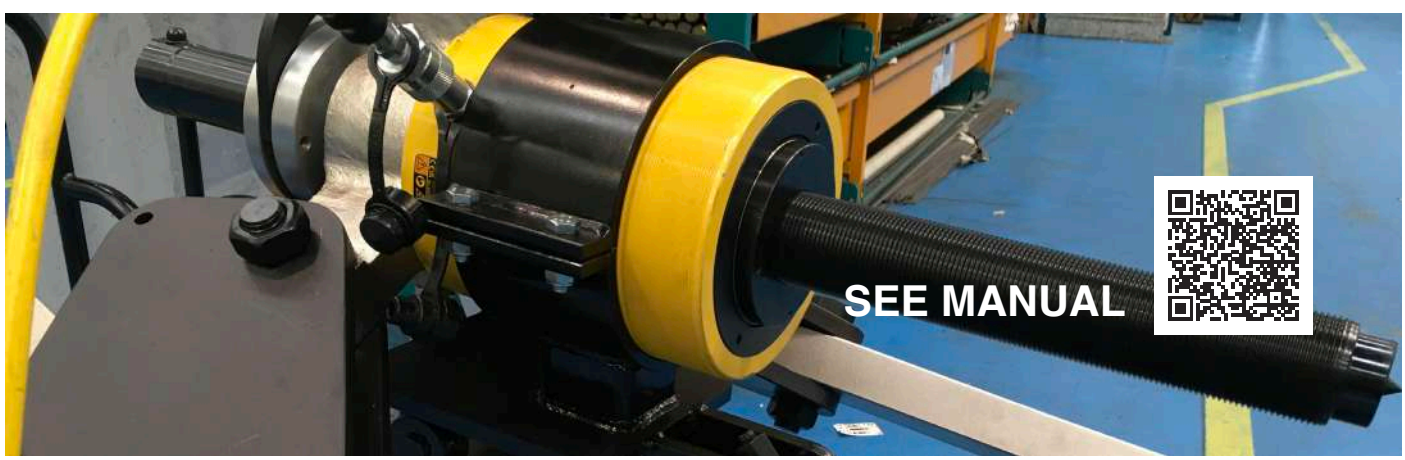
HYDRAULIC PUMP FROM 10 TO 100 TONS



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.
Maximun 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).



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.

							Spare part	Accessorie
Ref.	A	B Max	B Min	C	TON	⚖	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.

									Spare part	Accessories		Spare part
Ref.	A	B Max	B Min	C	TON	⚖	Internal puller	Splitter	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

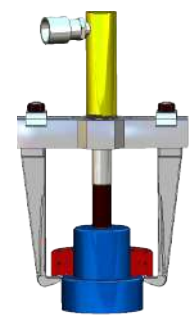
Bullet points
- Hydraulic system: faster pulling with less effort.

Ref.	A	B Max	B Min	C	TON		Spare part: Point extension	Spare part: 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

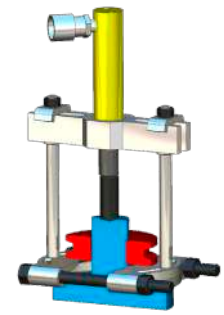
SERIE 1100HF PUSH PULLERS' MECHANICAL PART — 1100HF



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.	A	B Max	C	TON		Accessorie: Splitter	Spare part: Point extension	Spare part: 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.	A	B max	TON		Spare part: Point extension	Spare part: 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

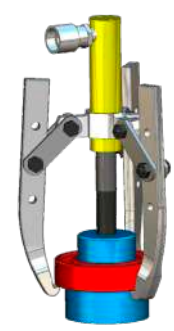
SERIE 3300LTH COMPLETE HYDRAULIC PULLER — 3300LTH

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

Bullet points

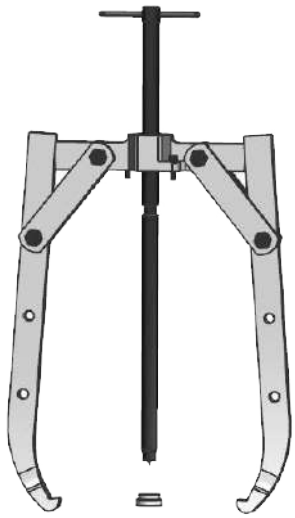
- Hydraulic mechanism: faster pulling with less effort.
- 3 jaw positions.
- Possibility of 2 or 3 legs pulling.
- The pull out improves thanks to the three jaws.





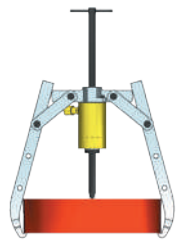
Ref.	A	B max	TON		Hydraulic part	Mechanical part
3307LTH	225	240	5	20,0	00904	1307LTH
3310LTH	400	350	10	33,0	00909	1310LTH
3310XTH	480	405	10	36,0	00909	1310XTH

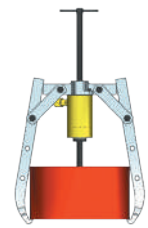
SERIE 1300H MECHANICAL PART 1300H



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.





							Spare part		
Ref.	A	B max	B min	C	TON		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.	A	B max	B min	C	TON		Spare part: Spindle	Spare part: Jaw	Spare part: 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 serle 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.	A	B max	B min	C	TON	Position		Spare part: Jaw	Spare part: Spindle	Spare part: 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.	A	B max	B min	C	TON	Position		Spare part: Jaw	Spare part: 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.	A	B max	B min	C	Includes	TON	⚖	Spare part: Spindle	Spare part: Jaw	Spare part: 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



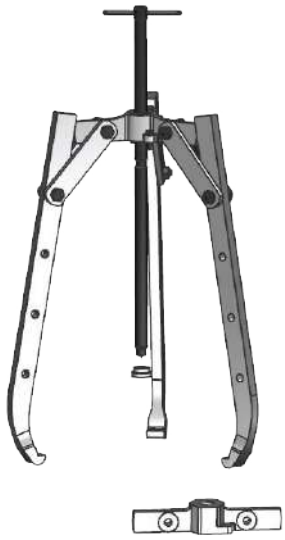
Complete puller: mechanical part + hydraulic part.
External 3 jaws hydraulic puller.
Long jaws (3 holes).
2 jaws body included.

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.	A	B max	B min	C	Includes	TON		Spare part: Spindle	Spare part: Jaw	Spare part: 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.



								Spare part		
Ref.	A	B max	B min	C	TON	Position	⚖	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.	A	B max	B min	C	TON	Position		Spare part: Jaw	Spare part: Spindle	Spare part: 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.	A	B max	B min	C	TON		Spare part: Spindle	Spare part: Jaw	Spare part: 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.
Selfcentering 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 3300THACO 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.	A	B max	B min	C	TON		Spare parts: Spindle	Spare parts: Jaw	Spare parts: 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.

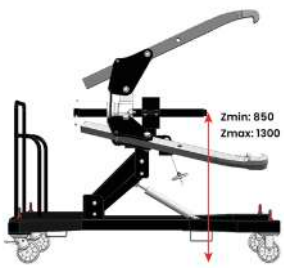
Ref.	TON		Hydraulic part	Mechanical part
3318THAXO	20	72,0	00918	1318THAXO
3330THAXO	30	92,0	00930	1330THAXO
3352THAXO	50	194,0	00952	1352THAXO

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 sepeed 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

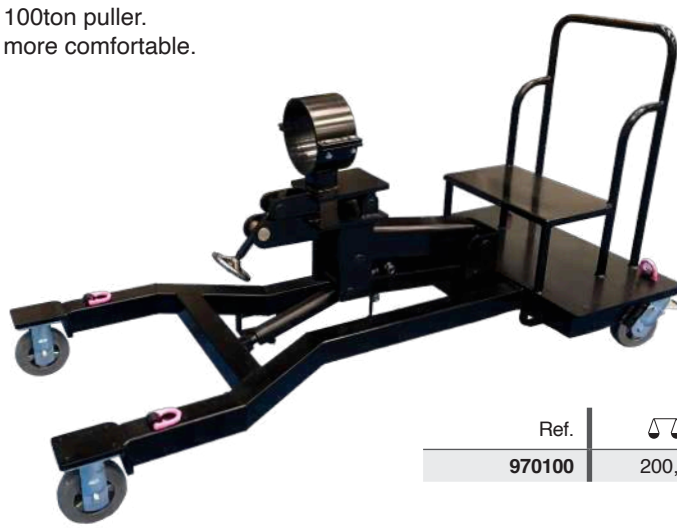
Ref.	Carriage length (mm)	Carriage width (mm)	Puller minimum height (mm)	Puller maximum height (mm)	Pump	⚖	Mechanical part	Puller
973100	2070	936	895	1250	Included	590,0	1395THA	3395THA

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

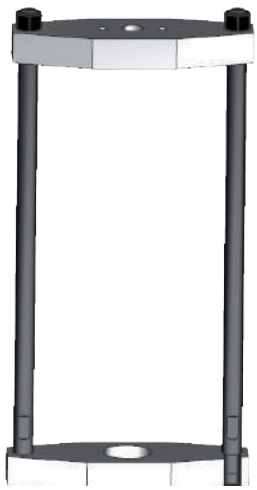
100 TON PULLERS TROLLEY 970100

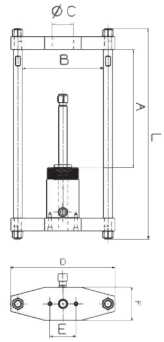
Made for use with FORZA 100ton puller.
Make the use of the puller more comfortable.



Ref.	⚖
970100	200,0

HYDRAULIC BOLT PULLER 4200H





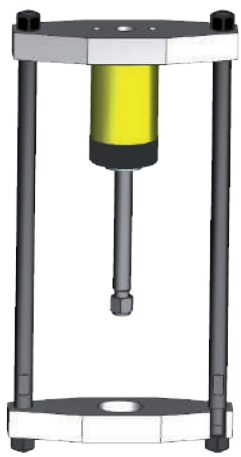
Specially designed to extract large bolts.
It uses the same hydraulic part as the pullers.
Available in 30 and 60 tons.

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

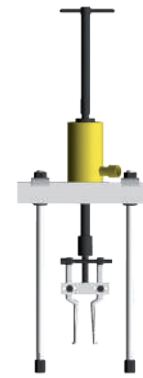


SERIE 1500H INTERNAL PULLER — 1500H



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.	A	B max	B min	C	Thread		Mechanical part	Spare part: Spindle	Spare part: 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.	Ø int	Ø int	Thread	A (Useful jaw height) with 470205	A (Useful jaw height) with 470215		Spare part: Mechanical part	Spare part: Internal jaw	Spare part: 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.



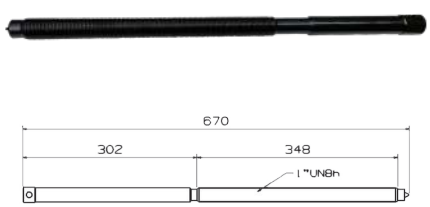
Ref.	Ø int max	Useful jaw height	Ø int min	Thread	Body diameter	⚖	Mechanical part	Spare part: Jaw	Spare part: Spindle
4708H30	300	315	130	150	1 1/4"7h	10,8	1130H	150905	470885
4708H50	300	315	130	150	1 5/8"5,5h	11,2	1152H	150905	470886
4708H95	300	315	130	150	2 1/2" 8h	12,0	1195H	150905	470896
4709H95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

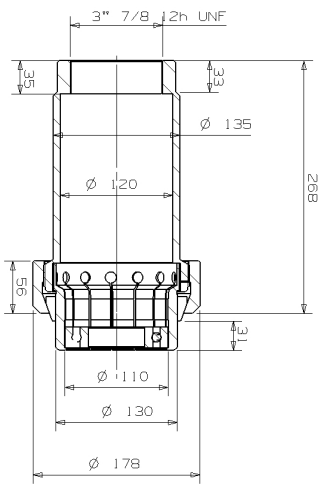
SPINDLES FOR HYDRAULIC PULLERS WITH HANDLE



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





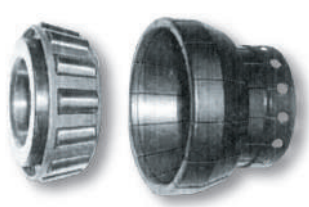
This extractor allows to mount and dismount all types of bearings
For this extractor, collets that are made to measure for the bearing to be extracted are adapted.
The price is for each collet, each collet extracts a different bearing
Hydraulic part not included.

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 bearinf 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 1732216 - 1732217 1732218 - 1732219 1732220 - 1732222 1732314 - 1732315 1732316 - 1732317 1732920 - 1732922 1733021 - 1733217
1700-6H5		15,0	00904	111837	
1700-6H10		16,0	00918	111837	

COLLETS FOR BALL BEARINGS



Ref.	Bearing to remove	⚖
176018	6018	0,1
176019	6019	0,1
176020	6020	0,1
176021	6021	0,1
176022	6022	0,1
176218	6218	0,1
176219	6219	0,1
176220	6220	0,1
176221	6221	0,1
176222	6222	0,1
1732216	32216	5,0
1732217	32217	5,0
1732218	32218	5,0

Ref.	Bearing to remove	⚖
1732219	32219	5,0
1732220	32220	5,0
1732222	32222	5,0
1732314	32314	5,0
1732315	32315	5,0
1732316	32316	5,0
1732317	32317	3,1
1732920	32920	3,8
1732922	32922	5,5
1733021	33021	5,0
1733217	33217	4,1

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 bearinf after the extraction.









Ref.	TON	⚖	Hydraulic part	Mechanical partParte 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



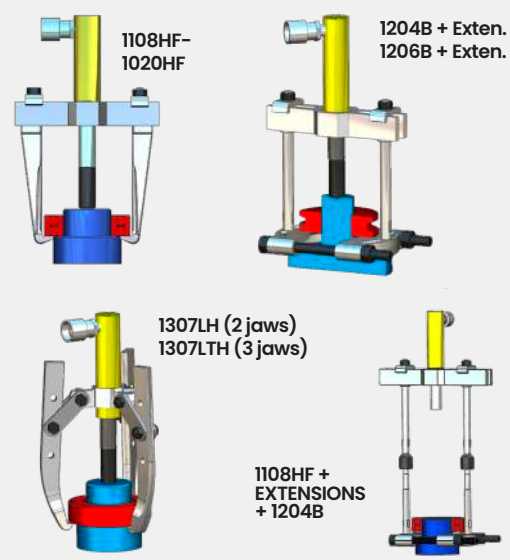
Cylinder | Hose | Pump | Manometer

Mechanical part



Serie 1000HF fixed jaws | Serie 1200 splitter | Serie 1300LTH oscillating | Serie 1100HF push puller | Extensions and joining nuts

Can be mounted



SERIE CP MECHANICAL PART



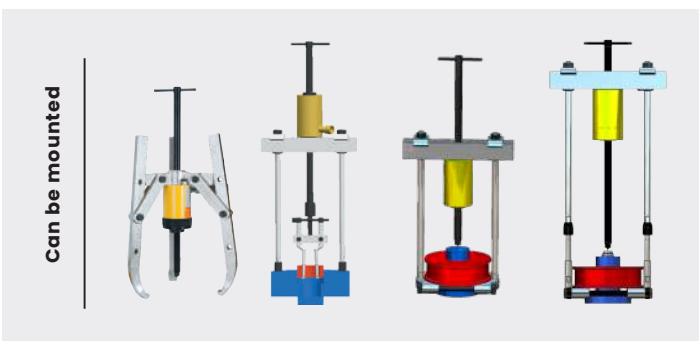
Ref.	Push puller	Splitter	Internal puller	2 and 3 jaws puller	TON	⚖	Spare part Point protector
C0-10	1110H	1204B	1506H10	1310TH	12	37,0	111037
C1-18	1118H	1206B	1506H20	1318TH	20	61,0	111837
C2-30	1130H	1210C	1509H30	1330TH	30	132,0	113037
C3-45	1125H	1210D	1509H30	1352TH	60	273,0	113037
C3-50	1152H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

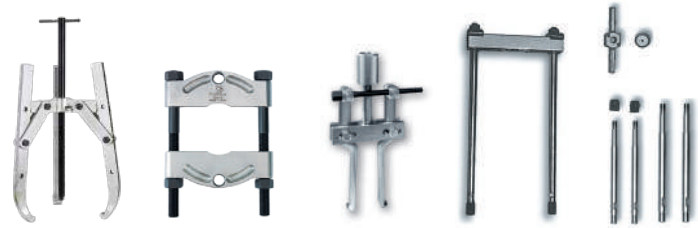


Ref.	TON	⚖	Hydraulic part	Mechanical part
CP-10	12	54,0	00910	C0-10
CP-20	20	83,0	00918	C1-18
CP-30	30	153,0	00930	C2-30
CP-45	60	227,0	00952	C3-45
CP-50	60	257,0	00952	C3-50

Hydraulic part



Mechanical part



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

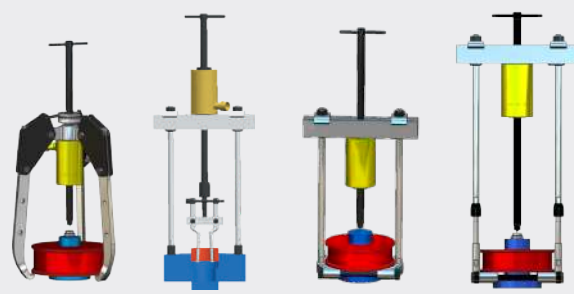


CPA complete hydraulic set.
In addition to the puller described in the table, it includes:
- 2 pairs of extra extensions.
- 2 link nuts.
- Point protector.

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

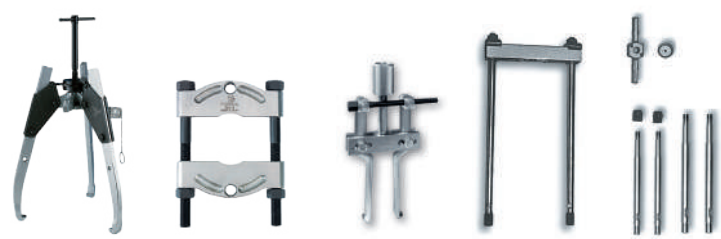


Ref.	TON		Hydraulic part	Mechanical part
CP-10A	12	56,0	00910	C0-10A
CP-20A	20	95,0	00918	C1-18A
CP-30A	30	160,0	00930	C2-30A
CP-45A	60	305,0	00952	C3-45A
CP-50A	60	361,0	00952	C3-50A
CP-52A	60	370,0	00952	C3-52A
CP-95A	100	667,0	00995	C4-95A

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

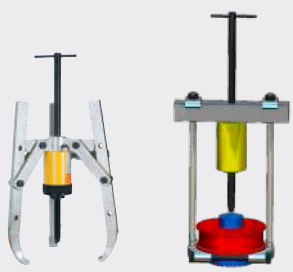


CPN complete hydraulic set.
In addition to the puller described in the table, it includes:
- 2 pairs of extra extensions.
- 2 joining nuts.
- Point protector.

Bullet points

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

Can be ounted



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



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

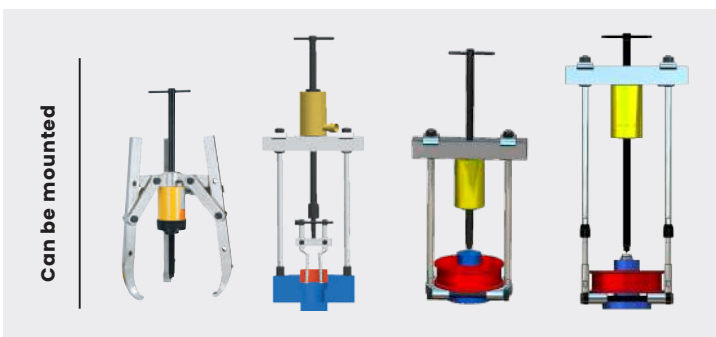
SERIE XP COMPLETE HYDRAULIC SET



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 1300TH oscillating | Serie 1200 splitter | Serie 1500H Internal puller | Serie 1100H push-puller | Extension and body

SERIE KP MECHANICAL PART — KPM



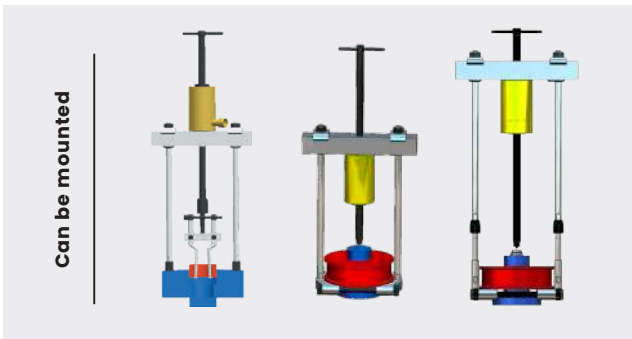
Ref.	Push puller	Splitter	Internal puller	TON	⚖	Spare part: Point protector
K0-10	1110H	1204B	1506H10	12	27,0	111037
K1-18	1118H	1206B	1506H20	20	38,0	111837
K2-30	1130H	1210C	1509H30	30	80,0	113037
K3-45	1152H	1210D	1509H30	50	138,2	113037
K3-50	1152H	1212D	1509H50	50	151,7	113037
K4-95	1195H	1213E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



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



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.	A	B max	B min	C	Combines	TON		Spare part: Jaw	Spare part: 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.	A	B max	TON	Combines		Spare part: Complete jaw	Spare part: 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

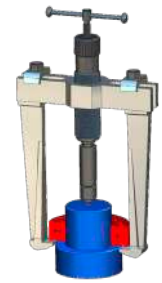
SERIE 1010H FORZA HYDRAULIC RAM PULLER 1010H0



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 assemby.



Ref.	A	B max	B min	C		Spare part: Hydraulic spindle	Spare part: 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.	A	B	C	Combines		Spare part: Hydraulic spindle	Spare part: 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.	A	B	TON	⚖	Spare part: Hydraulic spindle	Spare part: 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.	A	B	TON	⚖	Spare part: Hydraulic spindle	Spare part: 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.	A	B	TON	⚖	Spare part: Jaw	Spare part: 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 assemby.
- Safety pin to avoid overloading the spindle.

Ref.	A	B	C		Spare part: Hydraulic spindle	Spare part: 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



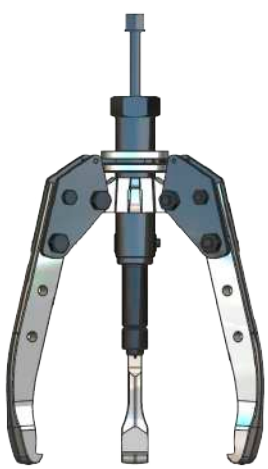
12Tn hydraulic 3 jaw puller.
Tighten the sub-spindle with a 17mm spanner.
Do not use wrenches or levers to tighten the sub-spindle.

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.	A	B		Spare part: Hydraulic spindle	Spare part: 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.	A	B		Spare part: Hydraulic spindle	Spare part: 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.

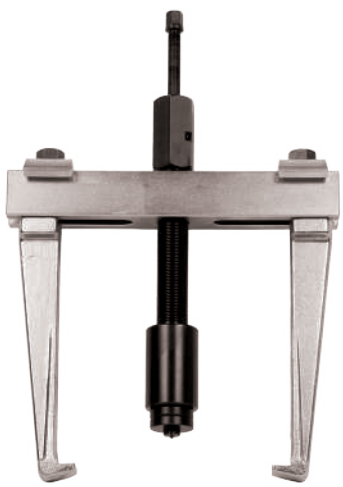
Bullet points

- 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.	A	B		Spare part: Jaw	Spare part: 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 assemby.
- Safety pin to avoid overloading the spindle.

Ref.	A	B	C		Spare part: Hydraulic spindle	Spare part: Complete jaw	Spare part: 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 assemby.

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.

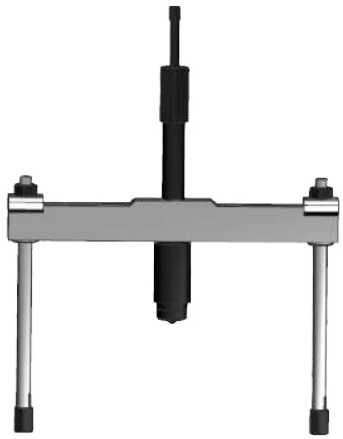
Bullet points

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

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

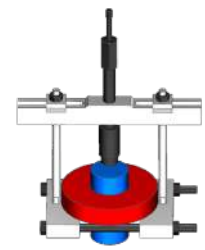


16Tn hydraulic puller with 2 extensions.
This puller combine with 1200 splitters
Do not use wrenches or levers to tighten the sub-spindle.

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.	A	B Max	B Min	C	Combines		Spare part: Hydraulic spindle	Spare part: Extender	Spare part: 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

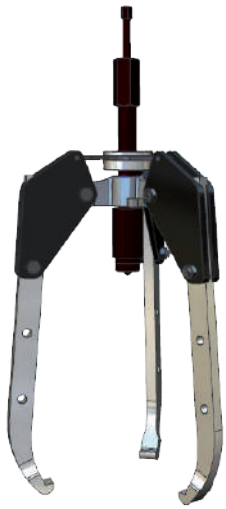


16Tn hydraulic 3 jaws puller.
Standard jaws (2 holes), long jaws L (3 holes) and extra long jaws X (4 holes).
Tighten the sub-spindle with a 17mm spanner.
Do not use wrenches or levers to tighten the sub-spindle.

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.	A	B		Spare part: Hydraulic spindle	Spare part: Complete jaw	Spare part: 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.	A	B		Spare part: Hydraulic spindle	Spare part: Jaw	Spare part: 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 assemby.
- Safety pin to avoid overloading the spindle.

Ref.	A	B	C		Spare part: Hydraulic spindle	Spare part: Complete jaw	Spare part: 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



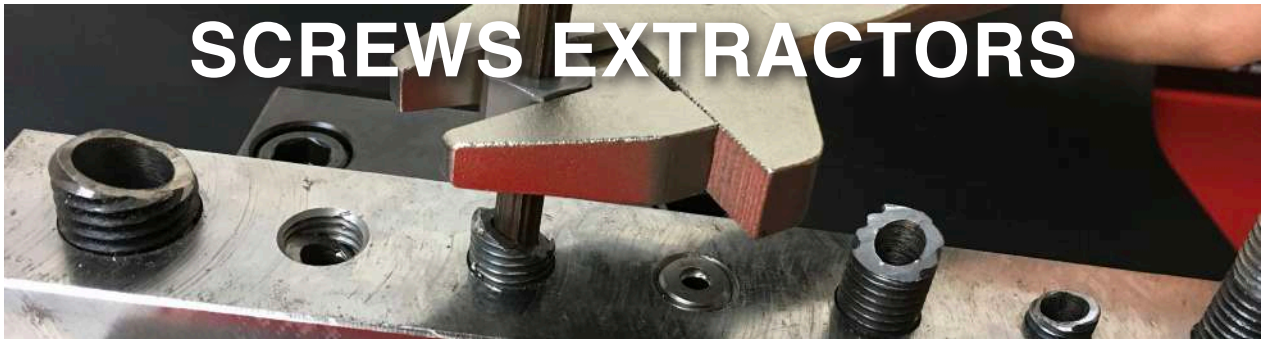
Ref.	R (Conection)	L (Length)	C (Distance between faces)	⚖
101683	1” Gas 11h	460	17	3,4





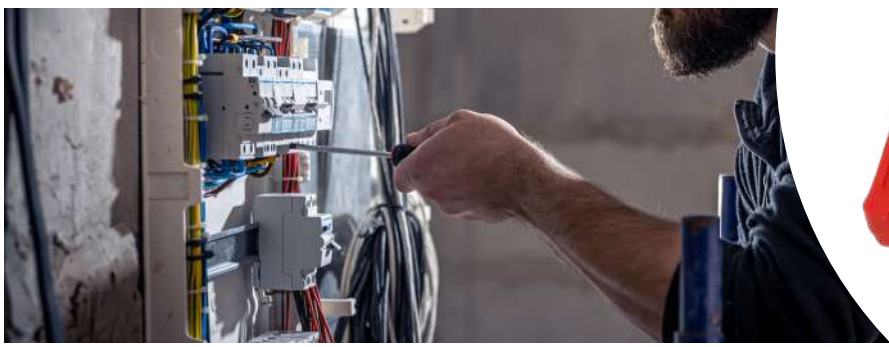


STUDS AND BROKEN SCREWS EXTRACTORS









FORZA®

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



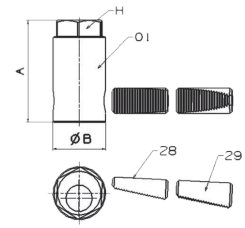
Griping paste and magnetic sockets 144

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.



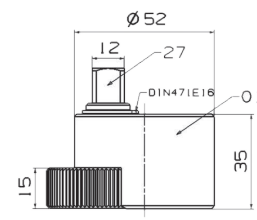
Ref.	Ømax	Ømin	Puller height	Hexagon	Puller external diameter	⚖
2001	16	10	75	30	34	0,4
2002	25	15	100	44	50	1,3

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

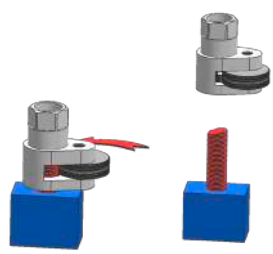
STUD EXTRACTOR SERIE 2300 — 2300



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.

WATCH VIDEO



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.

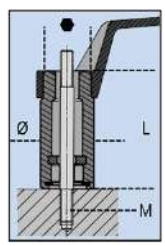
Bullet points

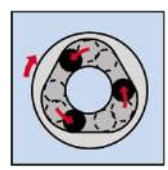
- The tool improves the extraction, making the work faster.

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



STUD GROOVED SET SERIE 5010 — 5010S

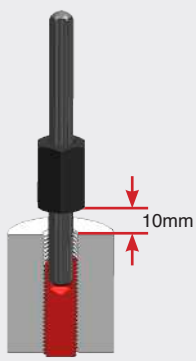


Set of 5 broken screws extractors
Contains 5 males and 5 nuts.
Red plastic box.

Bullet points

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

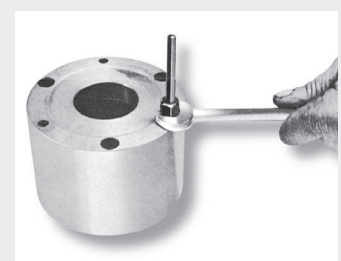
Ref.	From	To	⚖	Spare parts: Stud grooved extractors
5010	M-5	M20	0,3	5011 - 5012 - 5013 5014 - 5015
5010E	M-5	M20	0,3	5011 - 5012 - 5013 5014 - 5015



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	⚖
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

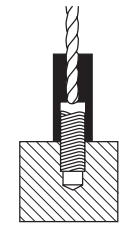
DRILLS AND EXTERNAL GUIDES SET SERIE 5010C — 5010C



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	Spare parts: Right hand drill	Spare parts: Guides set
5010C	M-5	M20	0,7	5011 5012 5013 5014 5015	501040 501050 501060 501075 501085	5010CK1 5010CK2 5010CK3

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

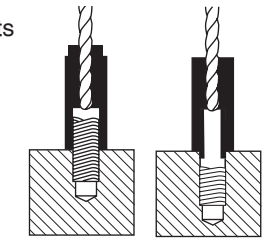
DRILLS AND DOUBLE GUIDES SET SERIE 5010CD — 5010CD



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.



WATCH VIDEO

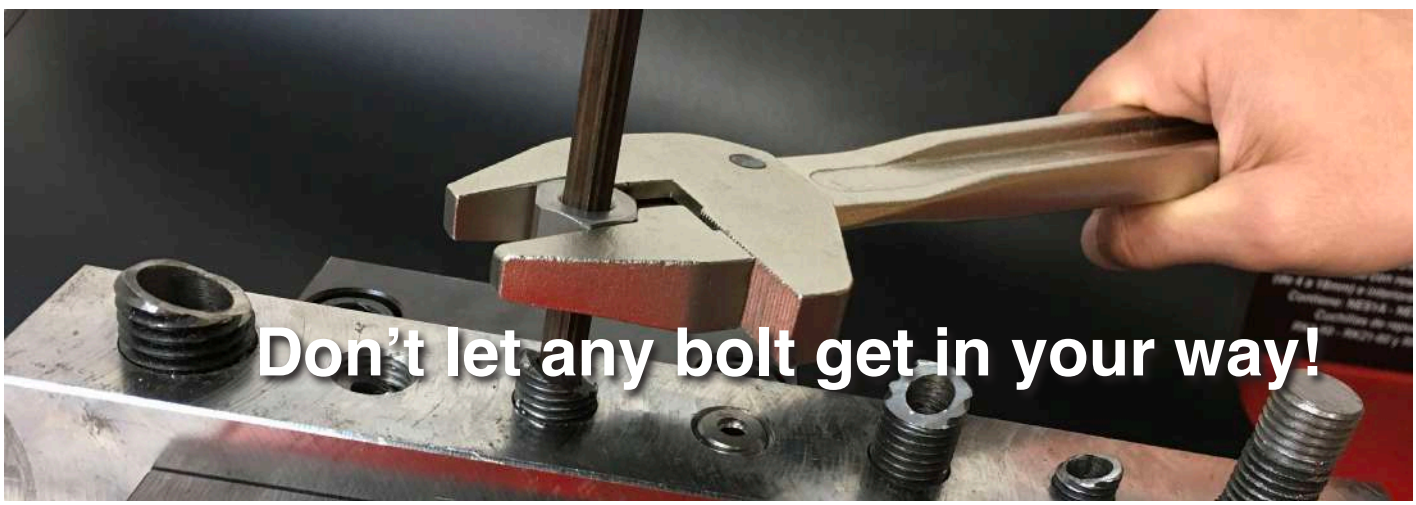
Ref.	From	To		Spare parts: Stud grooved extractors	Spare parts: Right hand drill	Spare parts: Set guides
5010CD	M-5	M20	0,7	5011 5012 5013 5014 5015	501040 501050 501060 501075 501085	5010CDK1 5010CDK2 5010CDK3

EXTERNAL AND INTERNAL GUIDES SETS

External and internal dual guide for screw extractors.



Ref.	External	Internal	ø Drill	Nº of guides	
5010CDK1	M-5, M-6, ø7, M-8	-, M6, M8, 3/8”	4	4	0,1
5010CDK2	M-8, ø9, M-10	1/2”, M-10, 7/16”	5	3	0,1
5010CDK3	ø11, 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.

WATCH VIDEO

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

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.





WATCH VIDEO

Ref.	⚖	Spare parts: Stud extractor	Spare parts: Set	Spare parts: 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.

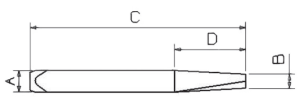
Bullet points

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

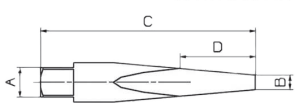
Ref.	From	To	⚖	Spare parts: Helical extractors
5010NS	M-6	M-26	1,0	5011N - 5012N 5013N - 5014N 5015N - 5016N

HELICAL EXTRACTORS





5011N a 5014N



5015N a 5016N

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



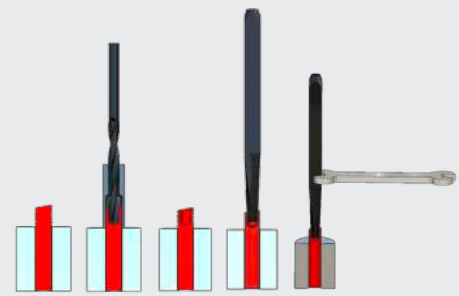
Set of 4 broken screws puller.
Contains 4 drill bits and 8 external guides
Red plastic box.

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

1- Use the most largest possible extractor.

2- Make the hole as biger as possible, this weaked 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

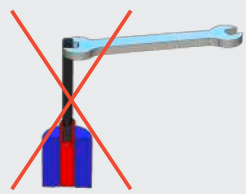


Square stud extractor set.
Drill bits from 3 mm to 9.5mm.

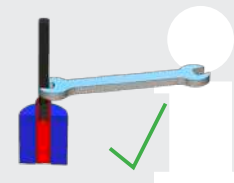
Bullet points

- Left threaded screws can be also extracted.

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



Sice 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





KNOCK OUT PUNCHES AND CUTTING TOOLS











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PUNCHES:

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KNOCK OUT PUNCHES


Circular knock out punches 147


Circular knock out punches with bearing.....148-149


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CIRCULAR KNOCK OUT PUNCH SERIE 54

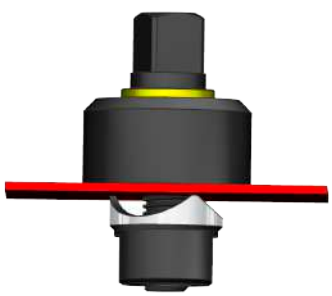
54

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 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).

						Spare part
Ref.	Ø	Inch	PG	Screw		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

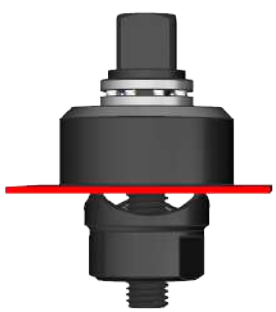
100% FORZA RECOMENDADO

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 strenth is required when cutting. Recommended for large diameter holes.
- 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 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).

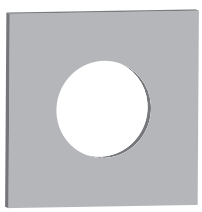
Ref.	Ø	Inch	PG	Screw	⏢	Spare part: Screw with bearing
55/13	13	1/2”	-	M8	0,1	540108R
55/14	14	-	-	M8	0,1	540108R
55/15	15	-	9	M8	0,1	540108R
55/16	16	5/8”	-	M8	0,1	540108R
55/18	18	-	11	M10	0,2	540110R
55/20	20	-	13	M10	0,2	540110R
55/21	21	-	-	M10	0,2	540110R
55/22	22	7/8”	16	M10	0,2	540110R
55/23	23	-	-	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

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

económica economic

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 strenth 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.

						Spare part
Ref.	Ø	Inch	PG	Screw	⚖	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 strenth 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.
From diameters > 75 mm upwards use 5414CH.

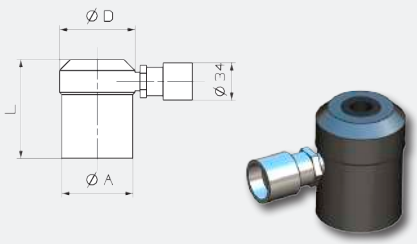
Bullet points

- 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	⚖	Incluided 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 cm^3.
The Oil cover has two purposes, ventilation and filling.
It works as pressure relief valve in the case os an accidental pressurization of the tank.
009542 single model includes a 900 mm long hose.

Ref.	Tm	⚖	Incluided 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

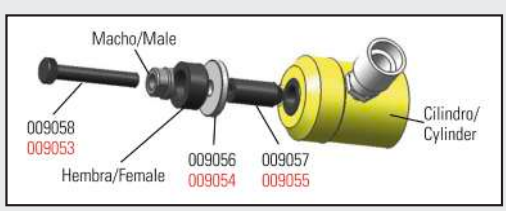
- Hydraulic system increases working speed.
- Longer blade life.

WATCH VIDEO HYDRAULIC PUNCHES



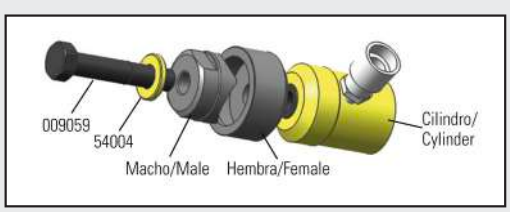
With screw M8 - M12

M8: Punches Ø 13 a 17
M12: Punches Ø 18 a 39



With screw M20

M20: Punches Ø > 39



					Spare parts		
Ref.	Ø	PG	Screw ø		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

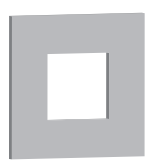
- Hydraulic system increases working speed.
- Longer blade life.

					Sapre parts		
Ref.	PG	Screw ø	Ø	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

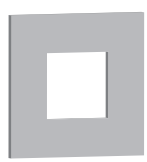
SQUARE HYDRAULIC KNOCK OUT PUNCH 54CH



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

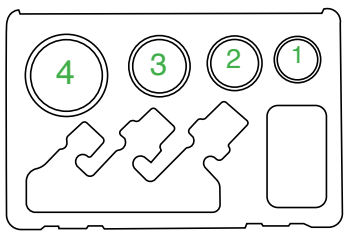
MECHANICAL KNOCK OUT PUNCHES SET 54J



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.	Incuded 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

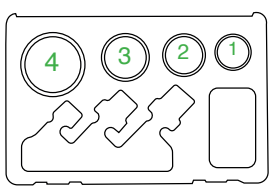
MECHANICAL KNOCK OUT PUNCHES SET 55 54JR



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.	Incuded 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.	Incuded 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.	Incuded 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.	Incuded 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.

Ref.	Incuded 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

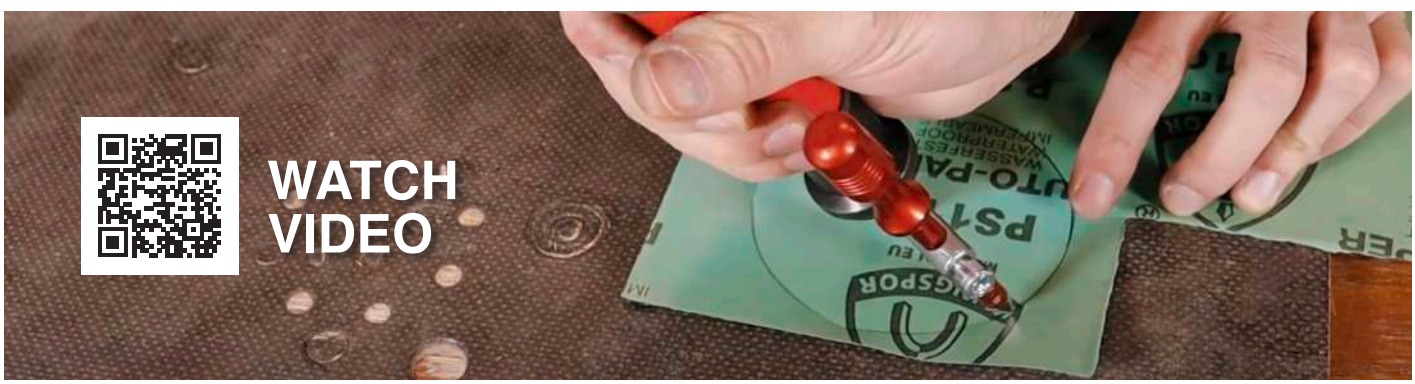
Composition:
Ø 3-4-6-8-10 mm
Ø 12-14-16-18-20 mm.
Ø 22-24-26-28-30 mm.

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



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.



				Spare part
Ref.	Holes from	Holes to		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.



				Spare part
Ref.	Holes from	Holes to		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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BI-METAL HOLE SAWS CUTS SELECTION GUIDE

IMPROVED METAL CUTTING PERFORMANCE
Optimized tooth design penetrates metal with easel.

FAST, EFFICIENT CUTTING IN WOOD
Larger, sharper teeth remove more wood for fast cutting.

WOOD	NAILEMBEDDED WOOD	NONFRERROUS 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.

T3™ Technology 50% LONGER LIFE 2X MORE DURABLE*



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	NONFRERROUS 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.

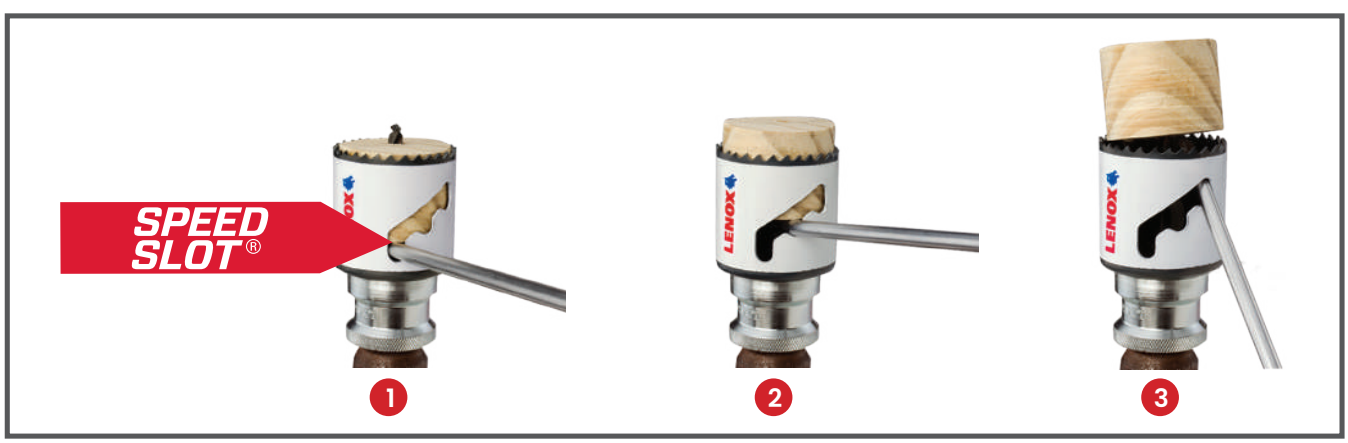



New Hole saw

Old Hole saw

It is essential to use a pilot drill with a carbide tip.

Greater depth of cut. Instead of the conventional 38 mm, almost 50 mm of cutting height.



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.



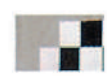
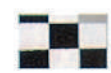
Use the standard spindle, SNAP-BACK for optimum results.

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

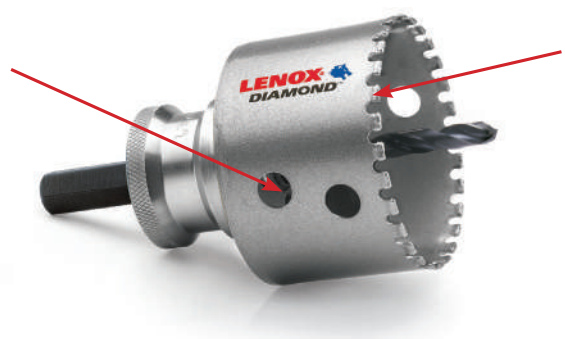
DIAMOND HOLE SAWS CUTS SELECTION GUIDE

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 enviroments.
- 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 enviroments.
- 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



Meltalmax 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 enviroments.
- 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 cutings 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

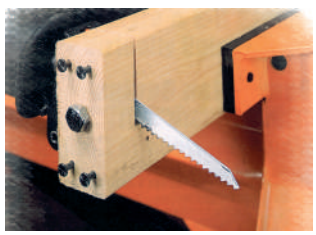
WOOD, METAL AND PLASTIC SAW BLADES 2055



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 improbes 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.



T2 Technology

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



Choice of leaf length



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.

T2 Technology

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

T2 Technology



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.



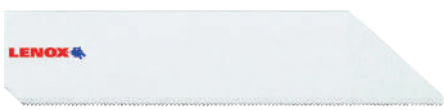
Corte plano



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



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

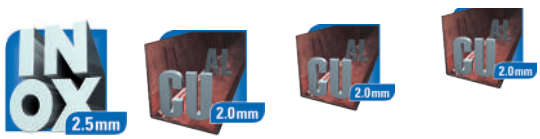
- Cut uphill and downhill.
- Clean cut on both sides of the material.

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



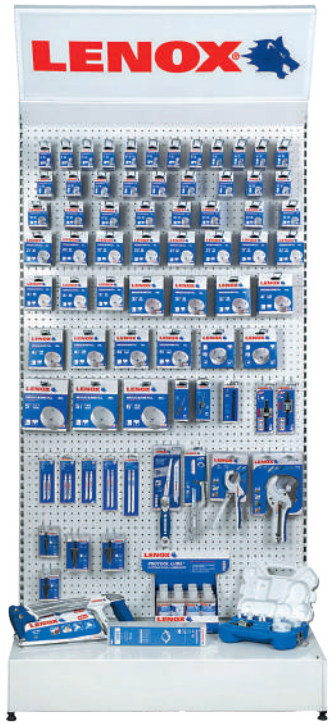
Cutting oil.
Extended tool ilfe. Water-soluble, so it cleans up with water
Biodegradable and non toxic.

Bullet points

- Reduces cutting time by up to 50%.
- Reduces heat and friction.

Ref.	Capacity	⚖
54401	0,2 liters	0,2

EXHIBITOR LX3



Complete Lenox display with all kinds of products from our catalogue.

Ref.		Empty display
LX3	40,0	96052

Composition

Ref.	Description	u.
20117224HE	224HE blade 300x13 24D	300
1991565B	BT318S jigsaw blade Bosch 75 x 10 18D	24
1991571B	BT324S jigsaw blade Bosch 75 x 10 10D	12
1990965B	BT410S jigsaw blade Bosch 100 x 8 10D	24
1991580B	BT518S jigsaw blade Bosch 135 x 10 18D	24
1991366B	BT686S jigsaw blade Bosch 133 x 9,5 10D	24
88300	Ligth weight hacksaw for blade 300mm	1
HT50	10507542 - High tension hacksaw 300 mm	1
20997	618636 - Trifold 2 blades	1
20980	PVC plastic pipe hacksaw + 450 mm blades	1
30001	1L arbor	6
30002	2L arbor	6
1768812	5L quick change arbor	2
1768813	6L quick change arbor	2
30009	9L hole saw 9/16” 14 mm	4
30010	10L hole saw 5/8” 16 mm	4
30011	11L hole saw 11/16” 18 mm	4
30012	12L hole saw 3/4” 19 mm	4
30098	HS hole saw 20 mm	4
30013	13L hole saw 13/16” 21 mm	4
30014	14L hole saw 7/8” 22 mm	4
30015	15L hole saw 15/16” 24 mm	4
30016	16L hole saw 1” 25 mm	4
30017	17L hole saw 1” 1/16 27mm	4
30018	18L hole saw 1” 1/8 29 mm	4
30019	19L hole saw 1” 3/16 30 mm	4
30020	20L hole saw 1” 1/4 32 mm	3
30021	21L hole saw 1” 5/16 33 mm	3
30022	22L hole saw 1” 3/8 35 mm	3
30023	23L hole saw 1” 7/16 37mm	3
30024	24L hole saw 1” 1/2 38 mm	3
30025	25L hole saw 1” 9/16 40 mm	3
30026	26L hole saw 1” 5/8 41 mm	3
30027	27L hole saw 1” 11/16 43 mm	3
30028	28L hole saw 1” 3/4 45 mm	3
30029	29L hole saw 1” 13/16 46 mm	3
30030	30L hole saw 1” 7/8 48 mm	3
30032	32L hole saw 2” 51 mm	3
30033	33L hole saw 2” 1/16 52 mm	3

Ref.	Description	u.
30034	34L hole saw 2” 1/8 54 mm	3
1816241	35L hole saw 56 mm	3
30036	36L hole saw 2” 1/4 57 mm	3
30038	38L hole saw 2” 3/8 60 mm	3
1816242	39L hole saw 62 mm	2
30040	40L hole saw 2” 1/2 64 mm	2
30041	41L hole saw 2” 9/16 65 mm	2
30042	42L hole saw 2” 5/8 67 mm	2
30043	43L hole saw 68 mm	2
30044	44L hole saw 2” 3/4 70mm	2
30046	46L hole saw 2” 7/8 73 mm	2
30048	48L hole saw 3” 76 mm	2
30050	50L hole saw 3” 1/8 79 mm	2
30052	52L hole saw 3” 1/4 83 mm	2
30054	54L hole saw 3” 3/8 86 mm	2
30056	56L hole saw 3” 1/2 89 mm	2
30058	58L hole saw 3” 5/8 92 mm	2
30060	60L hole saw 3” 3/4 95 mm	2
30062	62L hole saw 3” 7/8 98 mm	2
30064	64L hole saw 4” 102 mm	1
30066	66L hole saw 4” 1/8 105 mm	1
30068	68L hole saw 4” 1/4 108 mm	1
30070	70L hole saw 4” 3/8 111 mm	1
30072	72L hole saw 4” 1/2 114 mm	1
30074	74L hole saw 4” 5/8 118 mm	1
30076	76L hole saw 4” 3/4 121 mm	1
30080	80L hole saw 5” 127 mm	1
1816243	83L hole saw 5 1/4” 133 mm	1
30088	88L hole saw 5” 1/2 140mm	1
30096	96L hole saw 6” 152 mm	1
178668	30430 EU700L electrician’s hole saw set	1
LXAH9414CTPB	4-1/4” pilot bit 114mm	5
30960	VB1 VARI-BIT 9 steps Ø 4 to 12 mm	1
30961	VB2 VARI-BIT 7 steps to Ø 14 a 24 mm	2
30963	VB1 VARI-BIT 8 steps to Ø 20 a 34 mm	1
R1	10507481 - PVC tubing cutter PVC Ø42	2
54401	Cutting oil FORZA	12

SMALL EXHIBITOR LX4





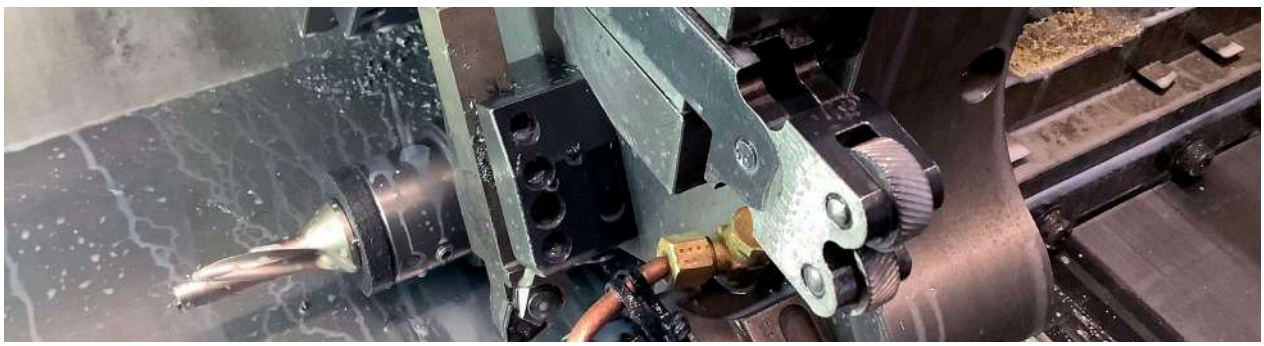
Small table-top display of hole saws and arbor with pilot drills from our catalogue.

Ref.		Empty display
LX4	470,0	96100

Composition

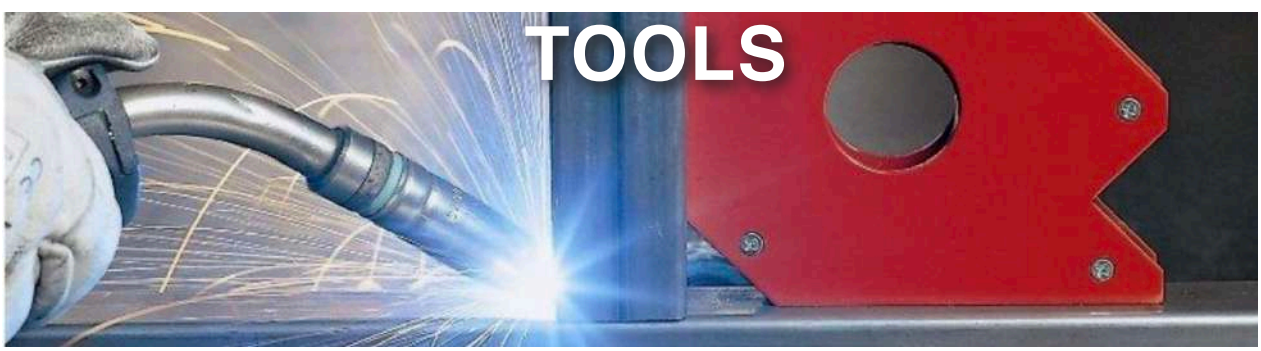
Ref.	Description	u.
30009	9L hole saw 9/16” 14 mm	2
30010	10L hole saw 5/8” 16 mm	2
30011	11L hole saw 11/16” 17 mm	2
30012	12L hole saw 3/4” 19 mm	2
30098	HS hole saw 20 mm	2
30013	13L hole saw 13/16” 21 mm	2
30014	14L hole saw 7/8” 22 mm	2
30015	15L hole saw 15/16” 24 mm	2
30016	16L hole saw 1” 25 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

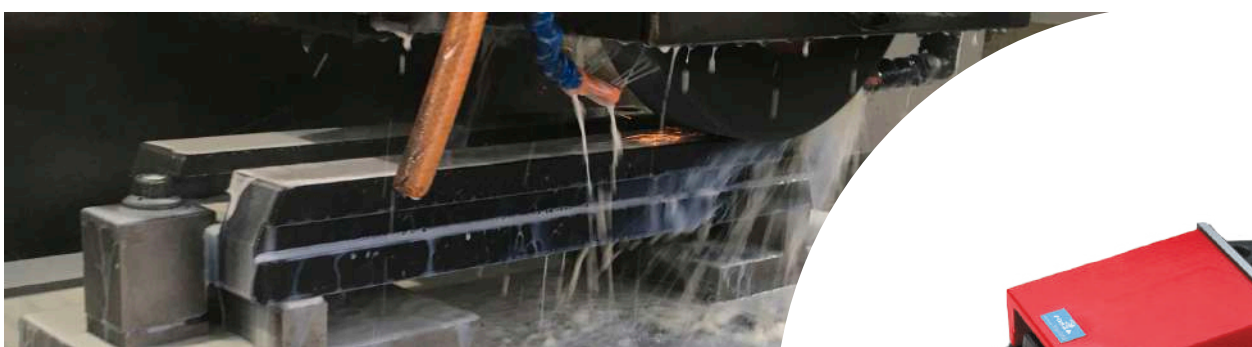






WORKSHOP TOOLS









FORZA®

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.
e also have a wide range of vices or milling machines and machining centers.

VICES AND CLAMPINGS


Drilling vices 190-191


Quick clamp vice 192


Self centering vices 192


Standard vice 195


Downsliding vice.....195


Plain vices 196


T slot vices 197


Arched clamps 197


Bench vices 198





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Magnetic holders 199


Quicks.....199-200

TOOLS HOLDERS AND KNURLING TOOLS


Knurling tools 201-202


Holders tools.....203-205


Machine vices catalogue 206-208


KM lock nut removal spanner.....209-212



MASTER SERIE 33M — 33M

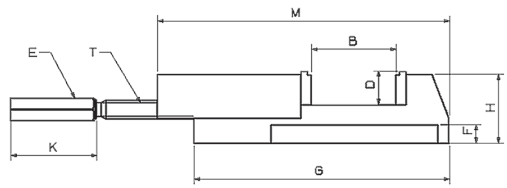


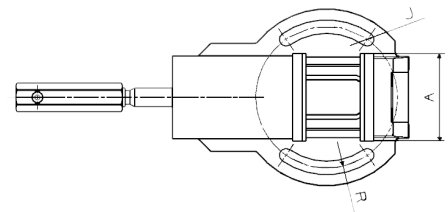
Professional vice for any drilling and threading operations.

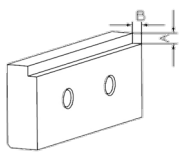
Bullet points

- Supplied with hardened stepped jaws.
- Protected spindle that prevents damage.
- Grooved chanels 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

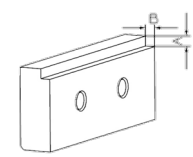


Professional vice for any drilling and threading operations.
It includes: clamping rod, set of prismatic jaws, set of soft jaws and 2 T nuts 12/14 and 16/18.

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



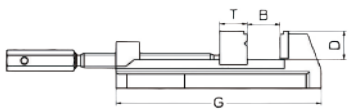
Light vice for any type of drilling and threading work.
It contains the same parts as the serie 33 except for the jaw holder and the movable jaw. It is a monoblock piece.

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).

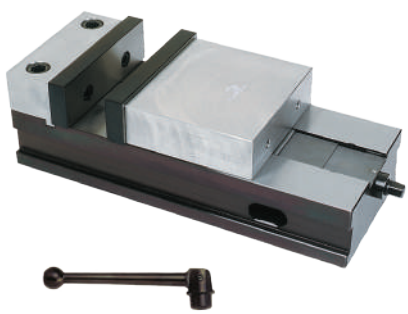


Construida en fundición nodular



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

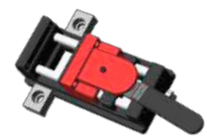


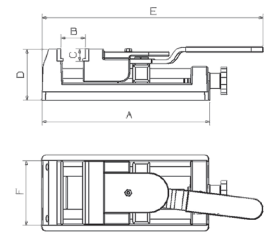


Quick clamping vice for drilling, threading and light milling works for mass production.

Bullet points

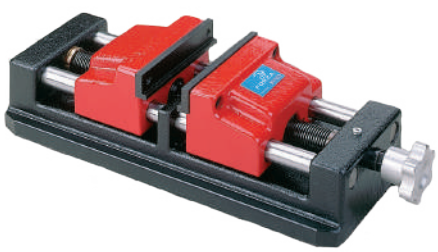
- It allows to clamp and release the part in tenths of second.
- Each vise is supplied with stepped jaws and two sets of soft jaws.

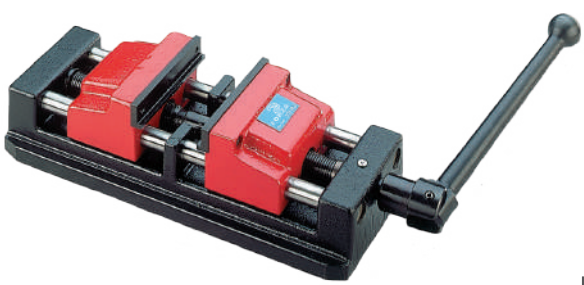




Ref.	A	B	C	D	E	F	Clamps	
38/80	230	80	20	75	385	80	12561	7,0
38/103	275	90	20	85	420	103	12561	10,5
38/125	400	125	30	105	555	125	15061	25,0

37 SERIE SELF CENTERING VICES 37

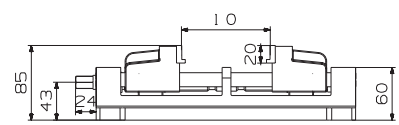


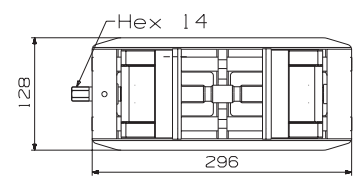


Selfcentering drilling vice for drilling, threading and light milling.

Bullet points

- It fastens the center of the piece.
- Swivel base could optinally 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.

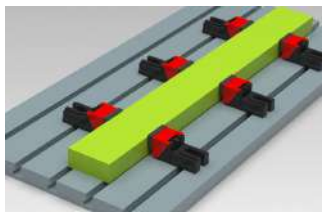


Ref.	Canal	M	
33121408	for 12-14	M8	0,1
33161808	for 16-18	M8	0,1
33121410	for 12 -14	M10	0,1
33161810	for 16 -18	M10	0,1
33161814	for 16 - 18	M14	0,1
33202214	for 20-22	M14	0,1



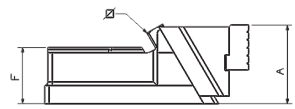
STANDARD VICES SERIE 34 — 34

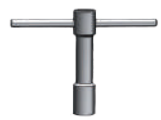


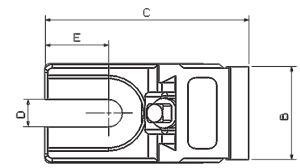


Vice for special works such as long pieces, dies and other specific clamping needs.
It is supplied in sets of 2 units plus a wrench.

Bullet points
- Lathe machine wrench for a better clamping.
- The descending effect avoids any lift up of the piece.



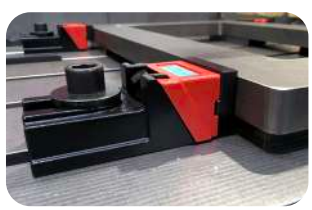




Ref.	A	B	C	D	E	F	▨	⚖
34/60	52-60	62	138	19	42	34	12	4,2
34/62	82-92	62	175	19	74	57	12	8,0
34/79	66-78	82	170	24	53	45	12	9,2
34/112	90-105	115	240	31	84	65	17	26,5

INDIVIDUAL STANDARD VICES SERIE 34 — 3460000





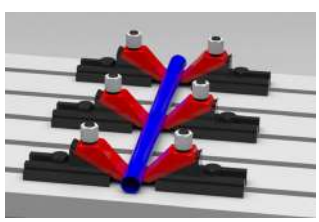
Descending effect vice, supplied individually.
The vice separately does not include the wrench.

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

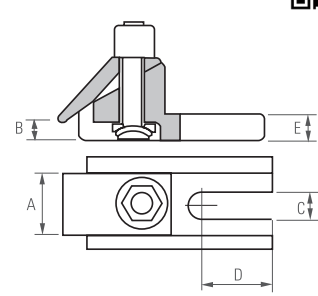
DOWNSLIDING VICES SERIE 35 — 35





Designed vices for clamping thin or round pieces in milling or drilling machines.
Descending effect vice supplied in sets of 4 units/each.

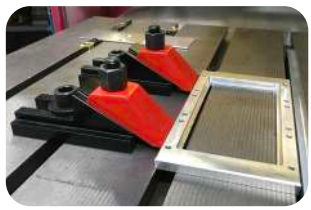
Bullet points
- The descending effect avoids any lift up of the piece.
- Specifically designed for clamping big sizes sheets in different machines.



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.

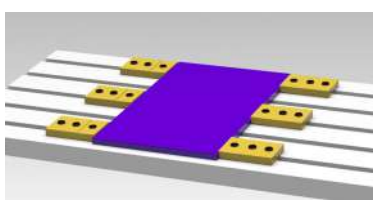
Bullet points

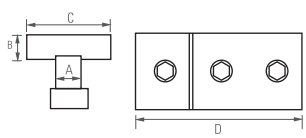
- The descending effect avoids any lift up of the piece.
- Specifically designed for clamping big sizes sheets in different machines.

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.

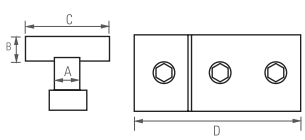
Bullet points

- 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 3660000





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

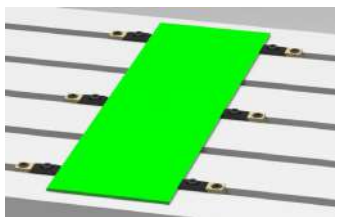
T SLOT VICES SERIE 37 — 37 CANAL

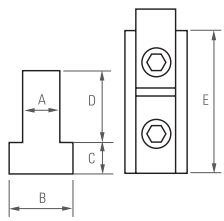


Vices for clamping extremely thin parts.

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

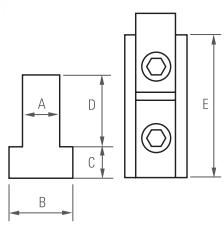
INDIVIDUAL T SLOT VICES SERIE 37 — 37120000



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

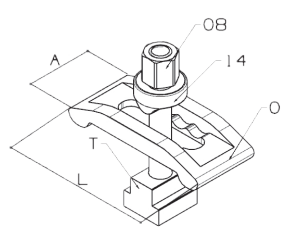


Suitable clamps for clamping tooling and molds.

Bullet points

- Clamp, that due to the deisng 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

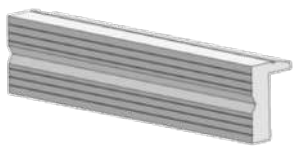
BENCH VICES SERIE 88 — 88



Manufactured in forged steel.
Steel hardeness 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

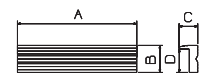
SLOTED ALUMINIUN JAWS



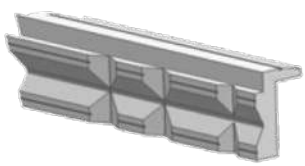
Magnetized aluminium jaws. They protect the pieces while working.

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



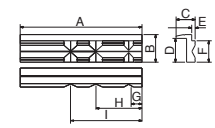
PRISMATIC ALUMINIUN JAWS



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



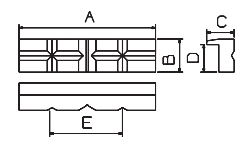
SPECIAL PLASTIC JAWS



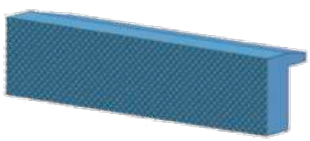
Plastic jaws. They protect the pieces while working.

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



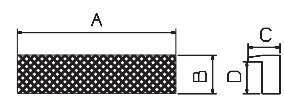
PLASTIC JAWS



Plastic jaws. They protect the pieces while working.

Bullet points
- Very easy to place.
- Knurled surface for improving the clamping.

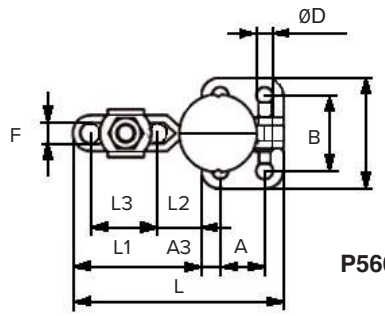
Ref.	A	B	C	D	⚖
8810054	123	30	25	25	0,1
8812554	100	30	25	25	0,2
8815054	148	30	25	25	0,2



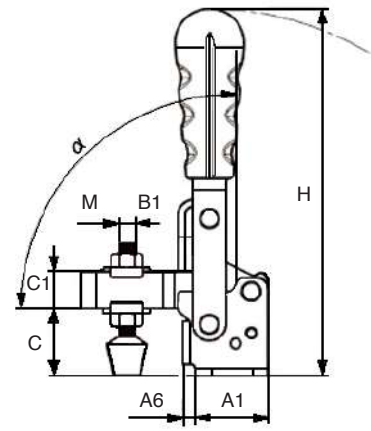
QUICK VERTICAL TOGGLE CLAMPS P560010

Quick clamping for tooling.
The handle rotates 90 degrees.
Vertical clamping.



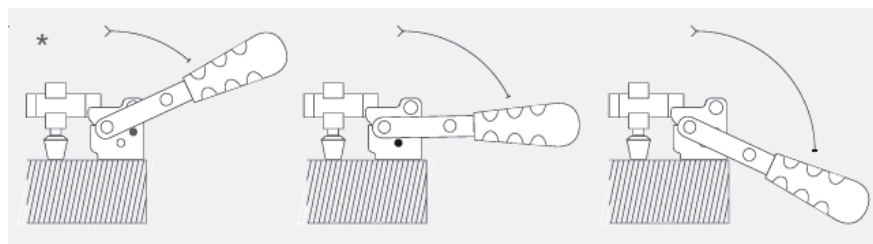


P56001



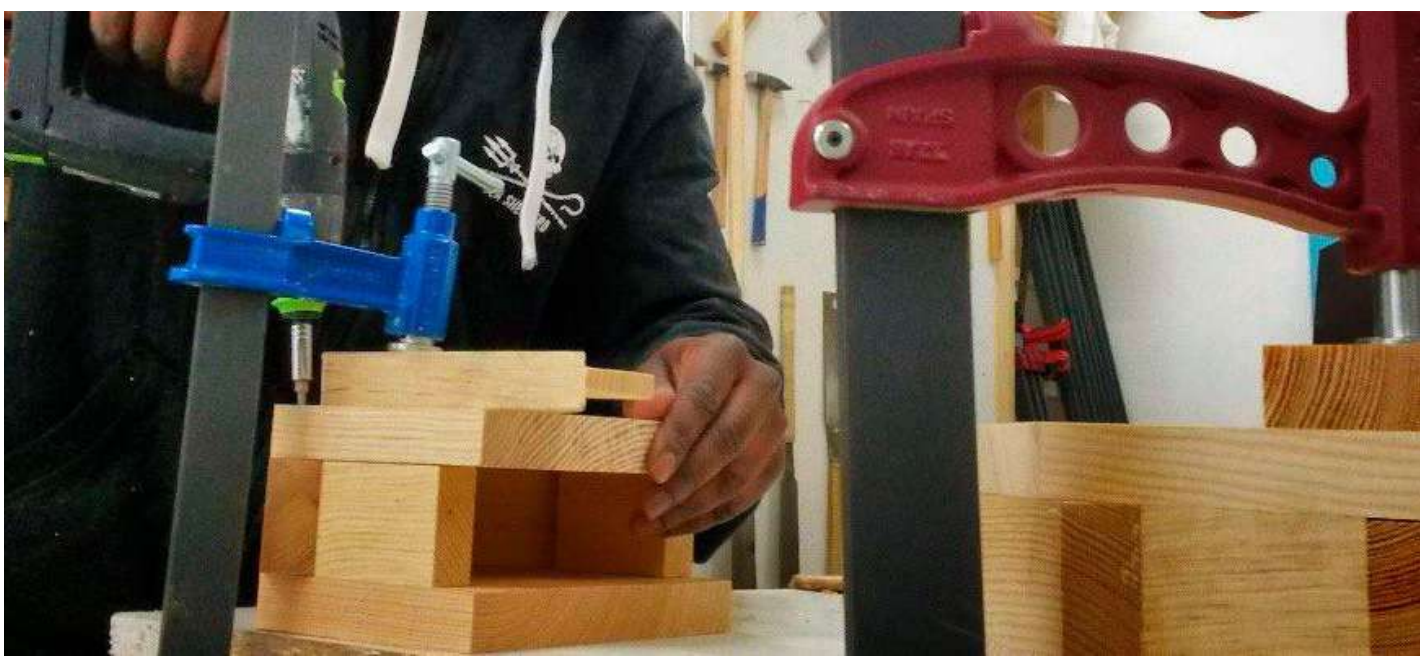
Other models

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

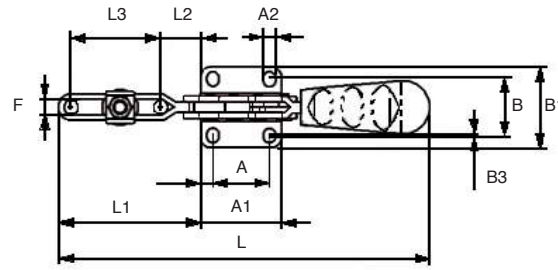


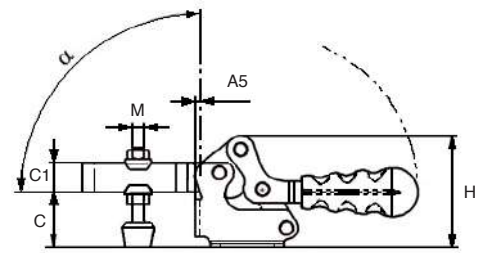
QUICK HORIZONTAL TOGGLE CLAMPS P560500

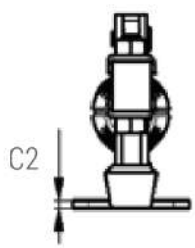




Quick clamping for tooling.
The handle rotates 90 degrees.
Vertical clamping.





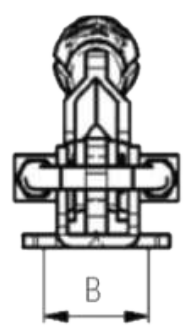


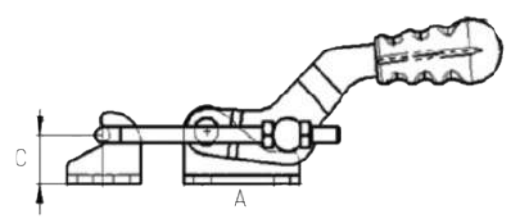
Ref.	Maximum strength	Length	Degrees	A	B	C	
P56050	380N-38kg	68	87	11,1	19	7,4	0,1
P56051	700N-70kg	105	94	13,5	19	19	0,1
P56052	900N-90kg	162	96	26	28	25	0,2
P56053	2200N-220kg	189	95	26	31	34	0,4
P56054	3400N-340kg	269	95	41,2	43	45	0,9

QUICK CLAMP HOOK P56201

Quick clamping for tooling.
The handle rotates 90 degrees.
Vertical clamping.

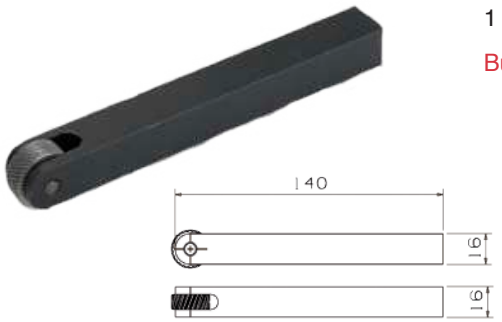






Ref.	To	B	C	
P56201	19	32	14	0,3

KNURLING TOOLS M1 — M1



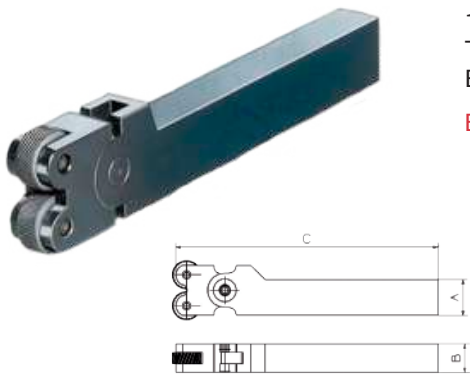
1 mm helicoidal knurl included.

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



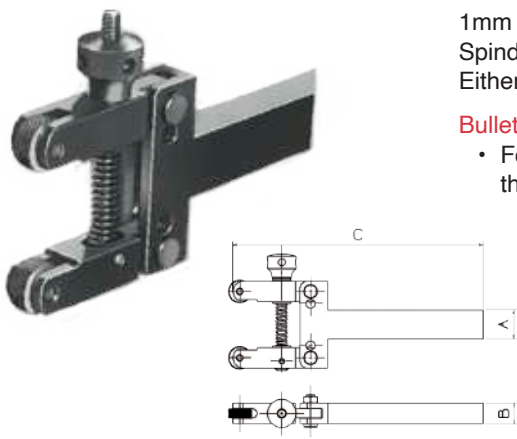
1mm helicoidal knurl set included.
The head´s turn allows to align the knrul to the working piece.
Either straight or cross knurling are possible.

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

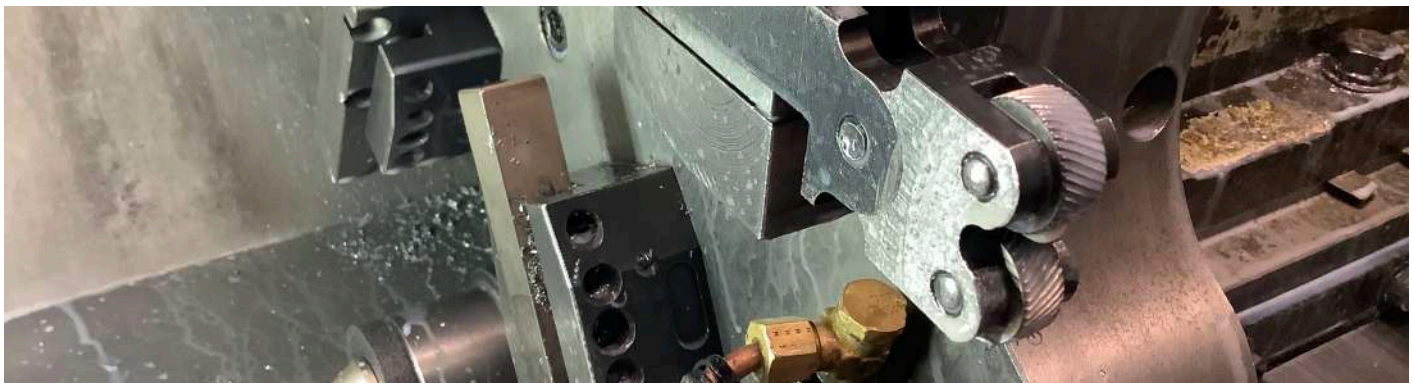


1mm helicoidal knurl set included.
Spindle for making pressure over the knurling.
Either straight or cross knurling are possible.

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



Rectas



Helicoidales

HSS 8% Co knurls.
Supplied in sets of 2 units.
Diameter of the knurls 20mm and diameter of the hole of the knurl 6mm.

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



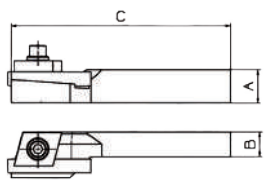
Toolholders with blades and hard metal chip included.

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





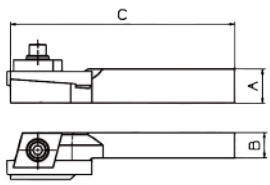
Toolholders for rolling and countering.
Angled blade position.
Angle of incidence 4 degrees.
Blades not included.

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 countering.
Straight blade position.
Angle of incidence 4 degrees.
Blades not included.

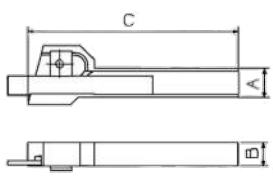
Bullet points

- 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





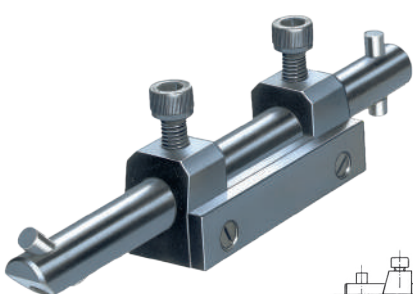
Toolholder with cutting blade.
Allows great use of the blade.
Blades not included.

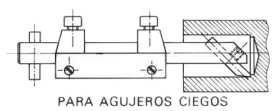
Bullet points

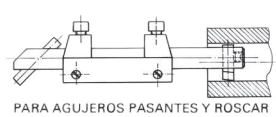
- Straight attack for rigid lathe machines.

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.

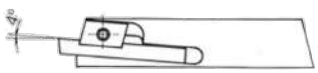
Bullet points

- 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.

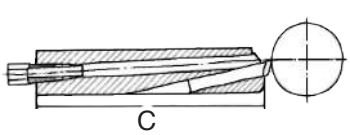
Bullet points

- 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.

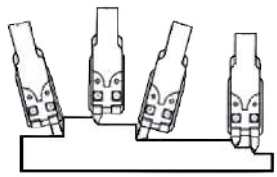
Bullet points

- 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 anticlock wise.
- 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 balde 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.

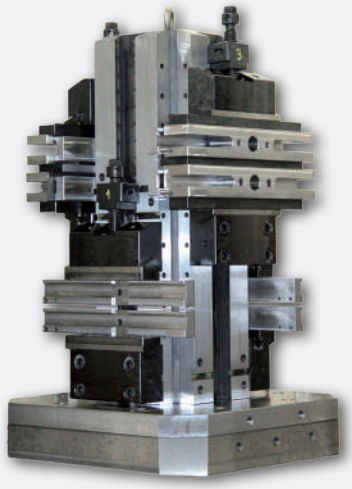
Ref.	A	B	C	Blade	
WN2	24	18	200	10	1,1
WN3	26	29	235	12	2,1

We have a catalog of machine vices

Machine Vices and Milling Hedas

- 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

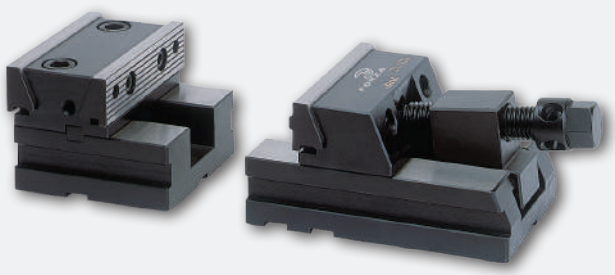




Tombstones

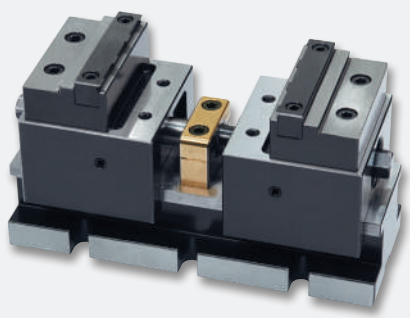
- A specific and inexpensive tooling that allows you to leave it stopped when you are not manufacturing parts and assemble it in minutes when needed.
- We manufacture towers of machine vices to the size you need.
- We look for specific tooling (cheaper), we avoid universal tooling (much more expensive).
- 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.





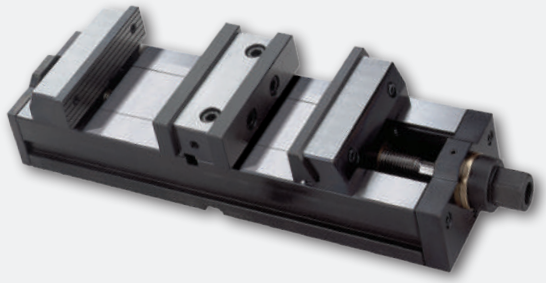
Descending machine vices

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.



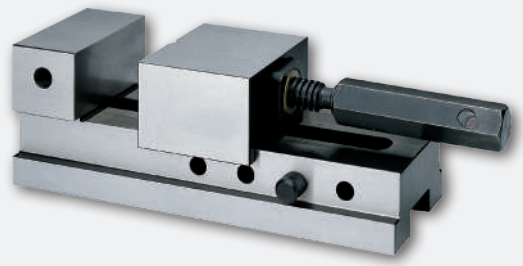
5 axes machine vices

- 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

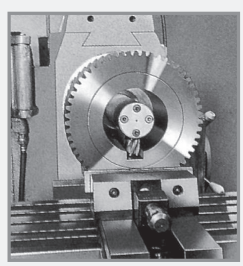
- Double vices transformable into self-centering vices.
- Double vices with two spindles.
- Aluminum machined jaw holders.
- Lower positioning spindle for greater jaw capacity.



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.





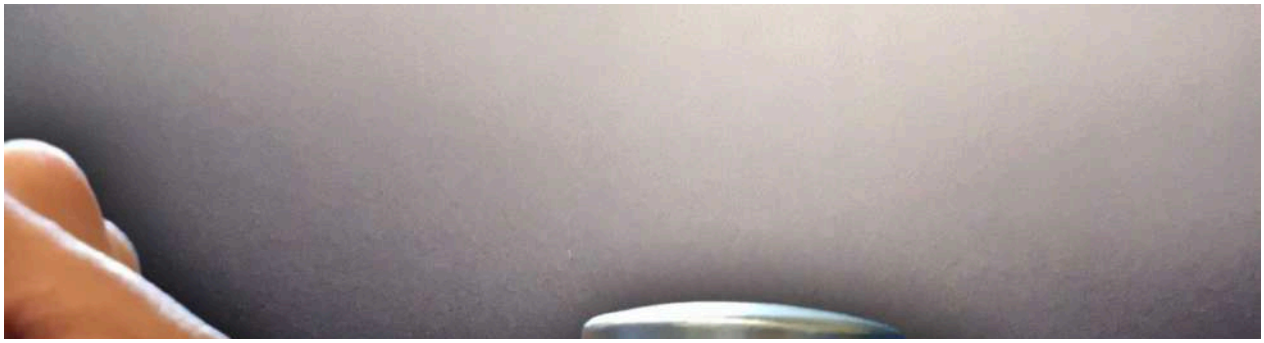
Milling heads

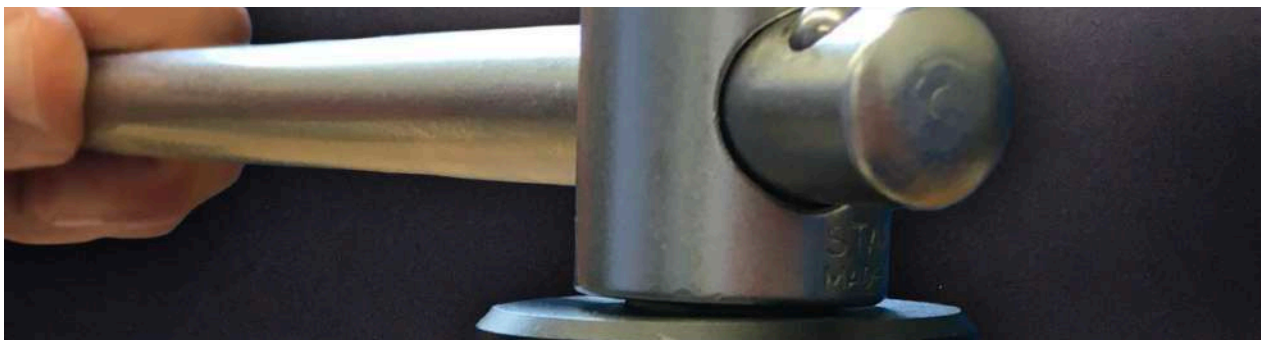
- Internal milling head.
- For milling works inside parts.
- It replaces broaching and mortising works. 5 different sizes.
- Milling head extensions.
- Suitable for working with milling cutters, keyways and threaded cutters.

50 years of experience in the manufacture of machine vices and millling heads.

Consult our catalog at

www.forza.es

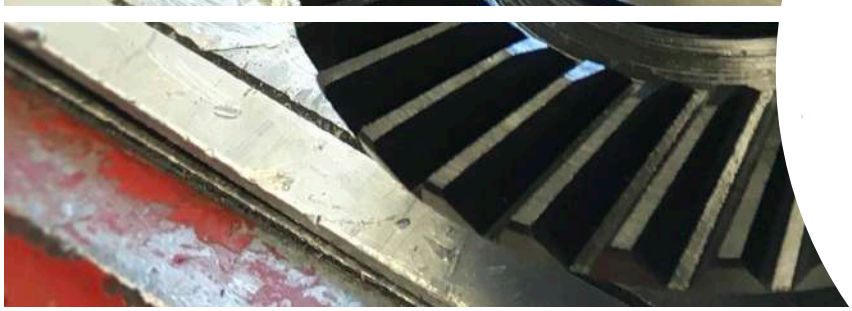





FORZA
961051


Made in Spain



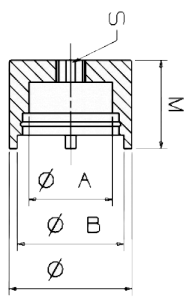



Made in Spain

SHORT SPANNERS 96100C







Wrenches designed to remove crenellated Km nuts without damaging them.

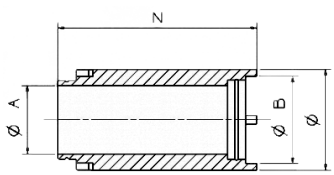
Bullet points

- 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

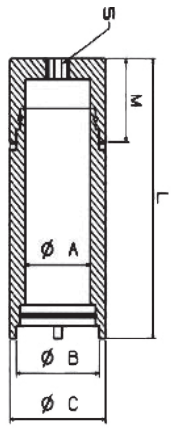
COMPLETE SPANNERS 96101



Wrenches designed to remove crenellated Km nuts without damaging them.
It includes the short lenght 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 lenght 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



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 lenght 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 lenght of the extension.

Ref.	Contains	
96802	KM4 to KM10 completes	5,0







AUTOMOTIVE TOOLS









FORZA®

AUTOMOTIVE:

Wide rage of tools for vehicle repair and maintenance.

Specialists in filter oil wrenches, injector oller, silent-blocks and ball joints separators.




Band type oil filter wrench 216


Oil ilter wrenches 217-218


Other oil filter wrenches 219


Direct action ball joint separator 220


Fork typw ball joint separator 221


Spindle ball joint separator 222-224


Other ball joint searators 225


Injector pullers 227-231


Valve seat cutters 234-237


Valve seats remover sets 238

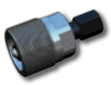

Silent-Blocks pullers 239-244


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

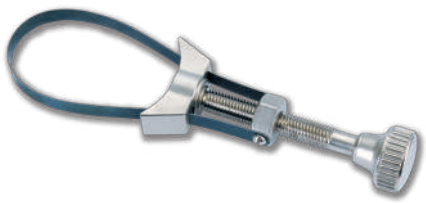

Other tools 260-261


Body repair tools 262-263


Diagnostic tools 264



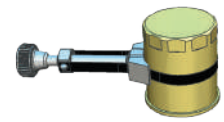
BAND TYPE OIL FILTER WRENCH 50020

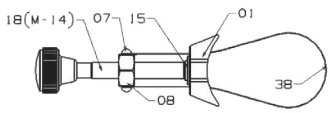


Oil filter wrench with a hardened CrVa steel band
Spare bands are available for each model.

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	⚖	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	⚖
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	⚖
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	⚖
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.

						Spare parts
Ref.	B- (Diameter) max	B- (Diameter) min	A-(Jaw height)	Square	⚖	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

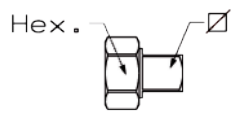
OIL FILTER WRENCH TEMPERED JAWS 51000



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.



						Spare parts
Ref.	B- (Diameter) max	B- (Diameter) min	A-(Jaw height)	Square	⚖	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.

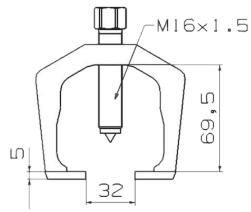
Ref.	Ø	
5940	63-97mm	0,4



OPEL BALL JOINT SEPARATOR 5071



Suspension direct action ball joint separator.



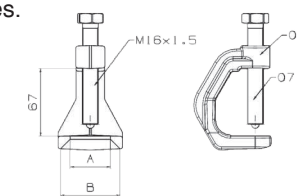
Ref.	Ball joint diameter	Height		Spare parts: Spindle
5071	32	69	0,8	507103

BALL JOINT SEPARATOR DIRECT ACTION 5500



Forged body tempered steel 40 CrMo4.
Tempered steel spindle with fine thread.

Bullet points
- Easy acces 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



WATCH VIDEO

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

LIGHT BALL JOINT SEPARATOR 660310



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

LIGTH BALL JOINT SEPARATOR FORK TYPE 6604900



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

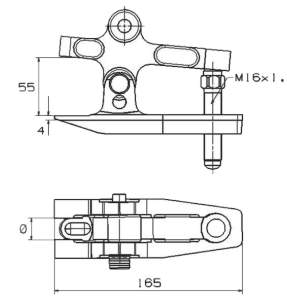
4 POSITIONS BALL JOINT SEPARATOR 56730



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

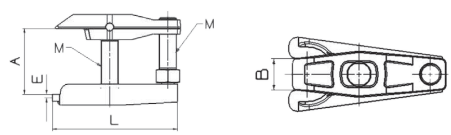
UNIVERSAL BALL JOINT SEPARATOR 5680 5680



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.

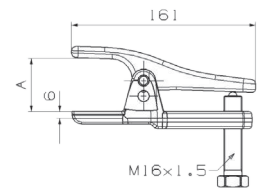
Ref.	A (Useful height)	Ball joint max. diameter	Ball joint max. diameter		Spare parts: Spare pin
5686	120	36	32	5,2	14X55

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		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		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.

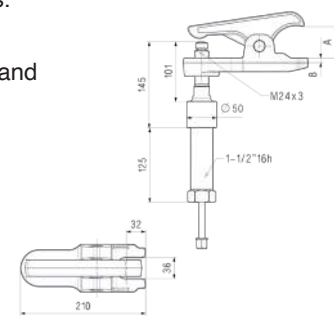
				Spare parts
Ref.	Ø	Height	⚖	Spare pin
5695	36	70	4,9	569540

HYDRAULIC BALL JOINT SEPARATOR LEVER TYPE 5695H



Ball joint separator lever type for trucks.

Bullet points
- It includes two spindles: Hydraulic and Mechanical.



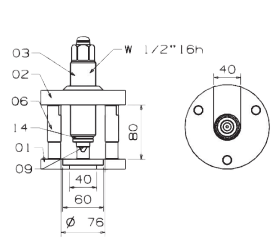
				Spare parts	
Ref.	Ø	Heightltura	⚖	Spare pin	Hydraulic spindle
5695H	35	70	5,5	568140	150120

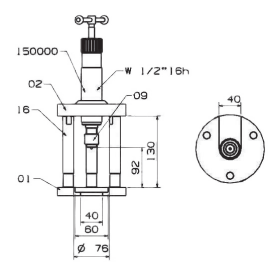
MECHANICAL BALL JOINT SEPARATOR FOR TRUCKS 56700



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

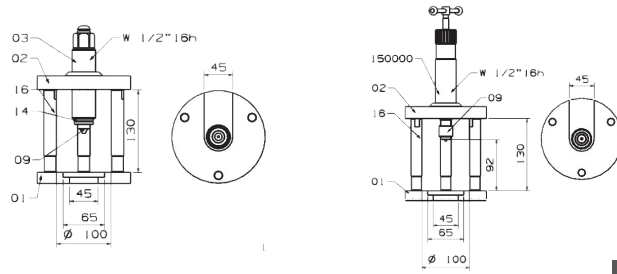
HYDRAULIC BALL JOINT SEPARATOR FOR TRUCKS 5670H0



Ball joint separator direct action for heavy cars.

Bullet points

- Hydraulic spindle for less effort.



Ref.	Ømin	Height		Spare parts: Hydraulic spindle
5670H	40	92	5,2	150000E
5671H	45	120	6,9	150000E

AXIAL BALL JOINT SEPARATOR 5660



Wrench axial ball joint.
Fast and effective.

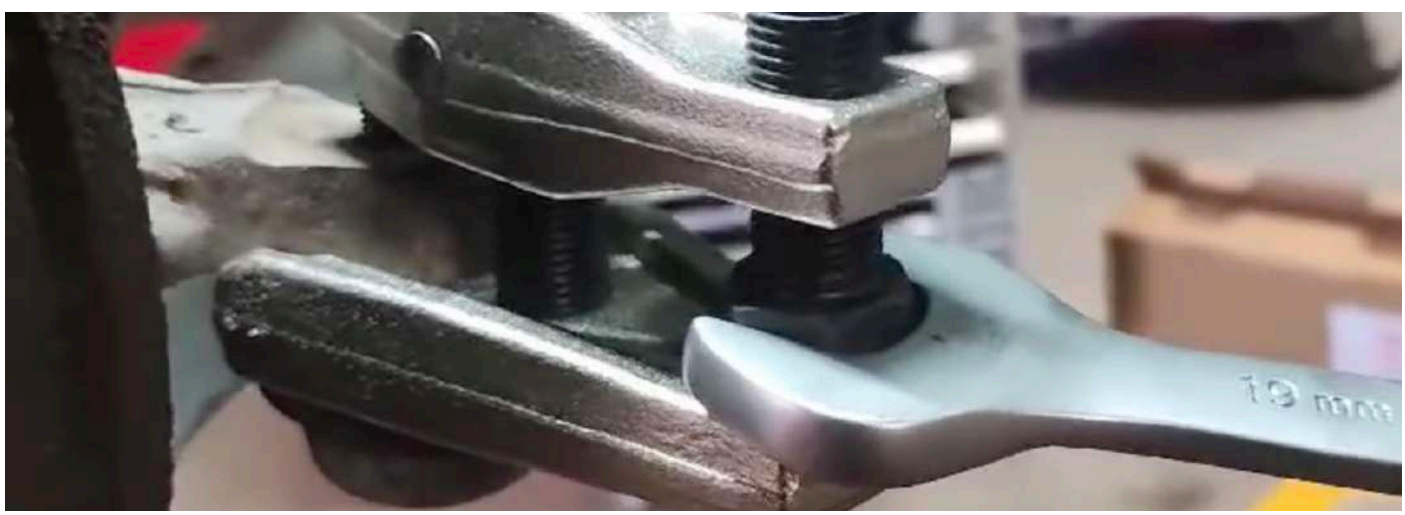
Bullet points

- 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).

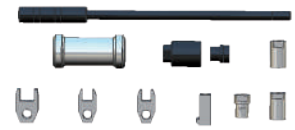
Ref.	⚖
569515	0,7

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.

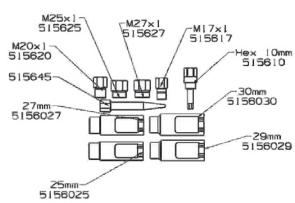
Ref.	⚖	Slide hammer	Push puller	Adapter	Wrench type adapter	Pump pad	Socket adapter with stopped
5150C	4,4	4390	5152	515012 515014 515017	515022 515023 515028	515025	515027

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.





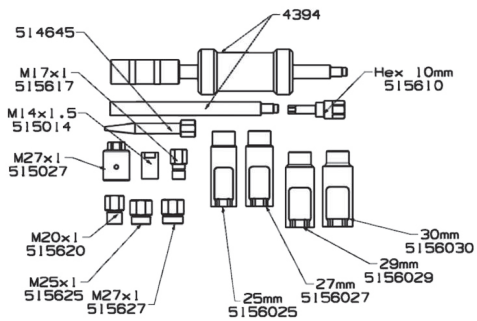
Ref.	⚖	Adapter	Grooved socket	Hexagonal special wrench
5155	1,8	515617 515620 515625 515627 515645	5156025 5156027 5156029 5156030	515610

UNIVERSAL INJECTOR PULLER 5156



Master set including slide hammer, wrenches and threaded adaptors.
Suitable for bosch, Delpi 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 515617 515620 515625 515627 515645	5156025 5156027 5156029 5156030	515610	515027



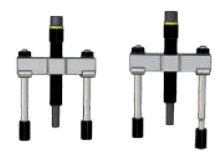
Complete slide hammer



Short slide hammer



Push puller not included in this set



MASTER KIT FOR INJECTORS WITH CLAMPS 5158

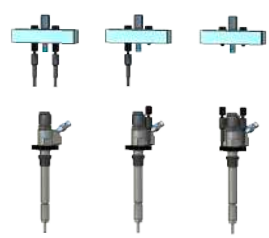


Master set of injector pullers with clamps,
5 adapters and 3 wrenches.
For bosch, Delpi and Siemens injectors.
Plastic case.



Pulling out spring loaded injectors or Siemens type injectors with holes on both sides

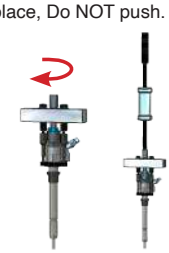
Mount expanding collets.



Tighten screws.



Turn spindle to hold puller in place, Do NOT push.

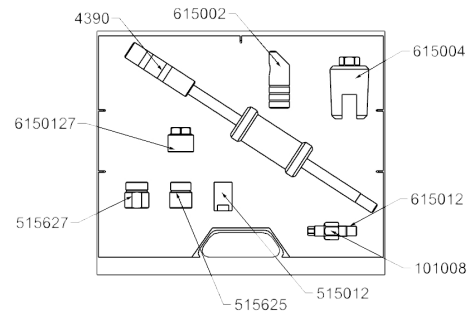


Ref.		Internal collet	Slide hammer	Push puller	Adapter	Wrench type adapter	Pump pad	Tensor + point	Socket adapter with stopped
5158	4,8	4000 4010	4390	5152	515012 515014 515017	515022 515023 515028	515025	515030	515027

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.

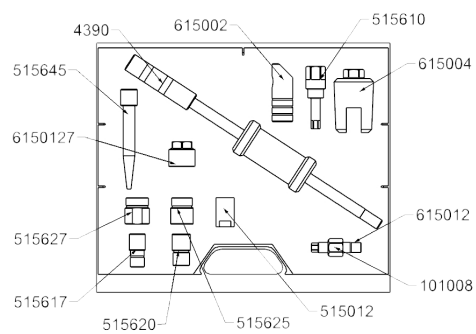


Ref.	⚖	Slide hammer	Adapter	Socket
6150	3,9	4390	515012 515625 515627 615002 615012 615027	615004

INJECTORS PULLER KIT WITH SLIDER HAMMER AND PUSH PULLER 6150C



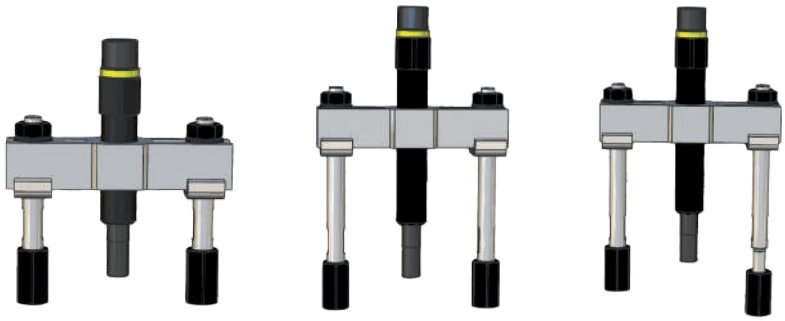
Injector pullers set with slide hammer.
Included, whaser injector extractor.
Suitable for bosch, Delpi and Siemens.
Supplied in a plastic box.



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.





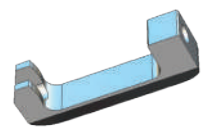


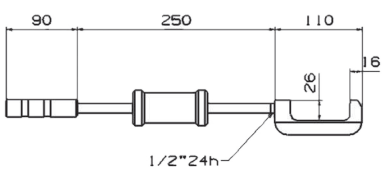
Ref.	⚖	Internal collet
5154	0,7	4000 4010

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	
515012	1/2” 24h	M12 X 1,5	0,1
515014	1/2” 24h	M14 X 1,5	0,1
515017	1/2” 24h	M17 X 0,75	0,1
515617	1/2” 24h	M17 X 1	0,1
515620	1/2” 24h	M20 X 1	0,1
515625	1/2” 24h	M25 X 1	0,1
515627	1/2” 24h	M27 X 1	0,1
515645	1/2” 24h	Como arandela	0,1
615002	1/2” 24h	M12 X 1,75	0,1
615012	1/2” 24h	M12 X 1,50	0,1
615027	1/2” 24h	M27 X 1	0,1
438214	M14	M20X1	0,1
438213	M14	M18X0,75	0,1
438212	M14	M17X1	0,1

Ref.	Inlet thread	Outlet thread	
438207	M14	M8X1	0,1
438218	M14	M27X0,75	0,1
438219	M14	M25X0,5	0,1
438220	M14	M29X1	0,1
438215	M14	M27x1	0,1
438216	M14	M25X1	0,1
438217	M14	M27X1	0,1
438222	M14	M14X1,5	0,1
438221	M14	M26X0,75	0,1
438224	M14	M16x1,5	0,1
438225	M14	M16X1,5	0,1
438226	M14	M18X1,5	0,1
438227	M14	M22X1,5	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 afters 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 os 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-blac problems due to poorly seated injectors
It contains:
1 T handle square drice 3/8” lenght 135 mm.
1 injector guide Ø7 mm.
1 2,5 mm allen wrench of 2,5mm.
1 Flat seat cleaned 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-centring 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



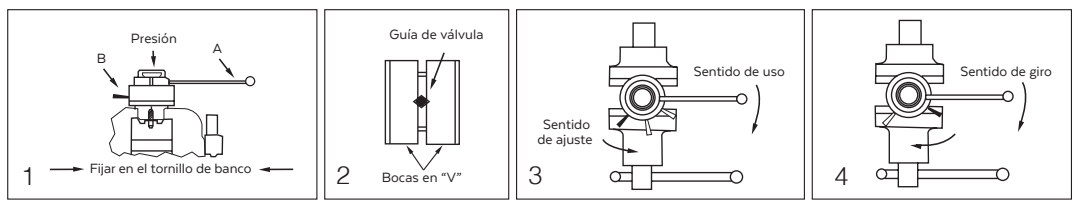


It easily grinds most valves using a bench vice.
30º and 45º angles.
Spare blades available.

Bullet points

- Grinds the valve to the exact angle.
- It is nut necessary grind the valve with a suction cup.

Ref.	⚖	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	⚖
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	Spare parts: Cutters	Spare parts: Accessories
N70	Moto	18	27	0,9	100-4,5 100-5 100-5,5 100-5,52 100-6 100-6,6	110 111 123	246 303 503-1 505
N100	Coche	21	42	0,9	150-7 150-8 150-8,5	275 285	160 246 505
N300	Coche	21.	42	1,3	150-7 150-8 150-8,5	213 273 275 285	160 246 505
N400	Coche	21	42.	1,4	150-7 150-8 150-8,5 150-9	203 212 217 622	160 246 505
N500	Camión	35	55	1,8	200-10 200-11 200-12 200-9	288 292 642 652	160 246 505

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

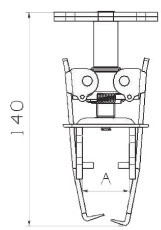
VALVE MOUNTING EXTRACTOR 50210



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 ginding 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 8007000



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 519042 519043 519044 519045 519046 519047 519048	5190034 - 5190036 5190038 - 5190040 5190042 - 5190044 5190046 - 5190048 5190050 - 5190052 5190054 - 5190056 5190058 - 5190060 5190062 - 5190064 5190066 - 5190068 5190070 - 5190072

SET OF SILENTBLOCK EXTRACTORS WITH SLOTTED TUBES 5198

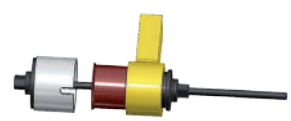


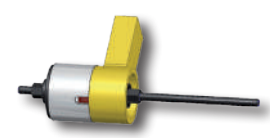
Silentblocks puller and other types of bushings and bearings.
It contains:
20 tubes diameter from 33 to 72mm
4 spindles with nuts and bearings: M10, M12, M14 and M16 and 8 different caps.

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 51983640 51984246 51984448 51985054 51985256 51985862 51986064 51986670 51986872	5198034 - 5198036 5198038 - 5198040 5198042 - 5198044 5198046 - 5198048 5198050 - 5198052 5198054 - 5198056 5198058 - 5198060 5198062 - 5198064 5198066 - 5198068 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 5198036 - 5198038 5198040 - 5198042 5198044 - 5198046 5198048 - 5198050 5198052 - 5198054 5198056 - 5198058 5198060 - 5198062 5198064 - 5198066 5198068 - 5198070 5198072	51983438 51983640 51984246 51984448 51985054 51985256 51985862 51986064 51986670 51986872 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



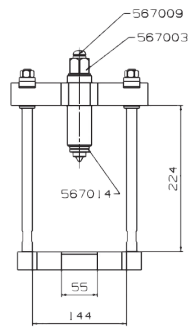
SILENT-BLOCK PUSH PULLERS 5192



Customized push puller designed for working with silentblocks pullers.
It can also work as a bolt puller.

Bullet points

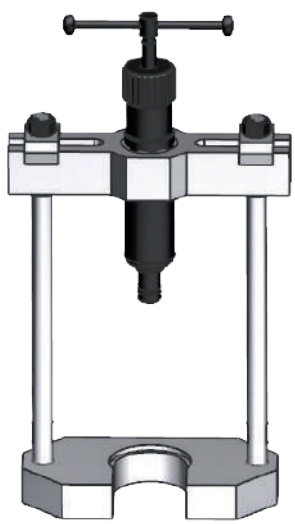
- Mechanical spindle that allows hammering to facilitate the extraction.





Ref.	Opening	Height	
5192	144	224	6,9

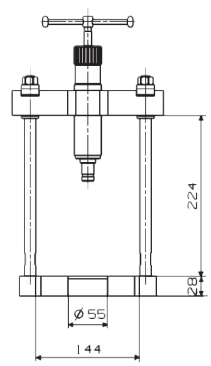
HYDRAULIC PUSH PULLER FOR SILENTBLOCKS 5192H

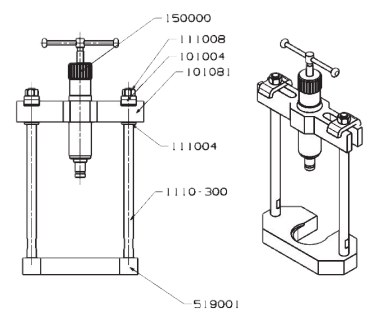


Customized designed push puller for silentblocks pullers.

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	
519041	72	A Cup	0,3
519042	74	B Cup	0,3
519043	76	C Cup	0,4
519044	78	D Cup	0,4
519045	80	E Cup	0,4
519046	82	F Cup	0,4
519047	70	G Cup	0,3
519048	67.6	H Cup	0,3
51983340	33-40	3340	0,1
51983438	34-38	3438	0,1
51983640	36-40	3640	0,1

Ref.	Ø	Cup	
51984246	42-46	4246	0,1
51984448	44-48	4448	0,1
51985054	50-54	5054	0,2
51985256	52-56	5256	0,2
51985862	58-62	5862	0,3
51986064	60-64	6064	0,3
51986670	66-70	6670	0,3
51986872	68-72	6872	0,4

TUBES



Silentblock tubes.

Ref.	External Diameter	Internal diameter	Cups	
5190033	36	33	9078	0,2
5190034	44	34	A-C	0,3
5190036	46	36	B-D	0,3
5190038	48	38	C-E	0,3
5190040	50	40	D-F	0,3
5190042	52	42	E-H	0,3
5190044	54	44	F-G	0,3
5190046	56	46	A-H	0,3
5190048	58	48	B-G	0,4
5190050	60	50	A-C	0,4
5190052	62	52	B-D	0,4
5190054	64	54	C-E	0,4
5190056	66	56	D-F	0,4
5190058	68	58	E-H	0,4
5190060	70	60	F-G	0,4
5190062	72	62	A-H	0,4
5190064	74	64	B-G	0,5
5190066	76	66	A-C	0,5
5190068	78	68	B-D	0,5
5190070	80	70	C-E	0,5
5190072	82	72	D-F	0,5
5190074	74	84	9080	0,5
5190076	76	86	9082	0,5
5190078	78	88	9084	0,6
5190080	80	90	9086	0,6

Ref.	External Diameter	Internal diameter	Cups	
5190082	82	92	9088	0,6
5190084	84	94	9090	0,6
5190086	86	96	3640	0,6
5198034	34	44	3438	0,3
5198036	36	46	3640	0,3
5198038	38	48	3438/3640	0,3
5198040	40	50	3640/3340	0,3
5198042	42	52	4246/3438	0,3
5198044	44	54	4448/3640	0,3
5198046	46	56	4246	0,4
5198048	48	58	4448	0,4
5198050	50	60	5054/4246	0,4
5198052	52	62	5256	0,4
5198054	54	64	5054	0,4
5198056	56	66	5256/4448	0,4
5198058	58	68	5862/5054	0,4
5198060	60	70	6064/5256	0,4
5198062	62	72	5862	0,5
5198064	64	74	6064	0,5
5198066	66	76	6670/5862	0,5
5198068	68	78	6872/6064	0,5
5198070	70	80	6670	0,5
5198072	72	82	6872	0,5

PUSHER

Silentblock pushers.



Ref.	Ø	Automotive brand	⚖
519056	74	VAG	0,6
519057	61	VAG	0,2
519067	67.5	BMW	0,2
519076	76	GENERAL	0,6
519078	78	GENERAL	0,6
519080	80	GENERAL	0,6

Ref.	Ø	Automotive brand	⚖
519082	82	GENERAL	0,6
519084	84	GENERAL	0,7
519086	86	GENERAL	0,7
519088	88	GENERAL	0,8
519090	90	GENERAL	0,8

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

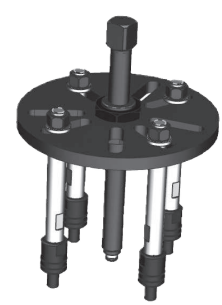
UNIVERSAL WHEEL HUB PULLER WITH SLIDE HAMMER 5180C



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 11103124 11103142 11103162	11104122 11104124 11104162

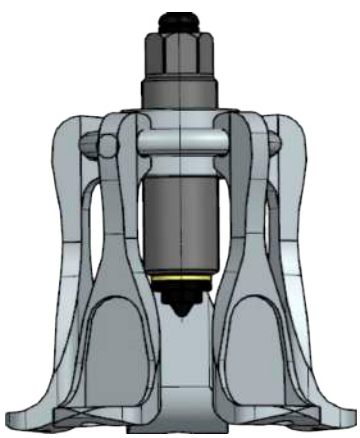
WHEEL HUB PULLER PLATE TYPE 5460



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



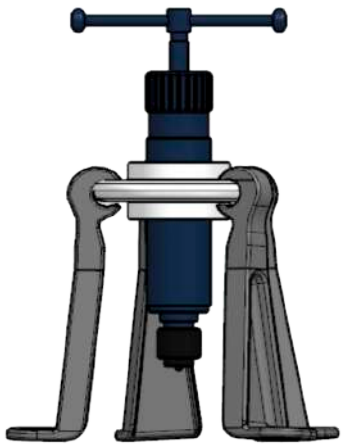
This extractor allows to extract the hubing using the same screws that the hubing itself has to be extracted.
We supply this extractor with 3, 4 or 5 legs.

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.

					Spare parts	
Ref.	Height	Opening	R (Conection)		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.

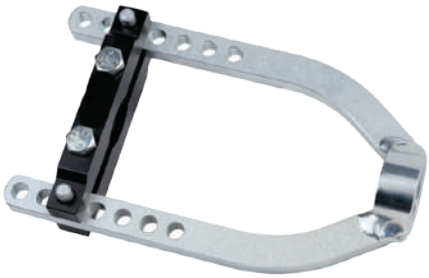
					Spare parts	
Ref.	Height	Opening	R (Conection)	⚖	Hydraulic spindle	Jaw
5513H	140	250	1 1/2" UN 16H	3,6	150000E	550305
5514H	140	250	2 1/2" UN 16H	4,1	150000E	550305
5515H	140	250	3 1/2" UN 16H	4,5	150000E	550305

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.

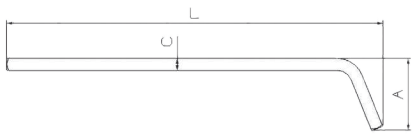
Bullet points
- It prevents removing the entire front axle.
- Approved as an official tool by the VW Group.



Ref.	Type	
080900	Universal	2,1

DRIVE SQUARE FOR OIL CUP 51820





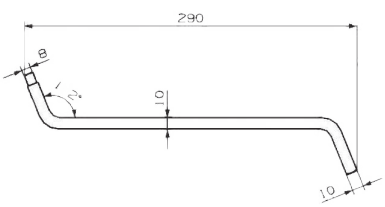
Square wrenchs specially designed to remove the oil cup.

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

VACUUUM 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 Gun
H6010	0,8	H6011

VACUUM GUN AND RESERVOIR H6011



Vacuum brake bleeding gun and brake refill bottle.

Ref.	⚖
H6011	0,3

BRAKE BLEEDING KIT 1/2l 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...).

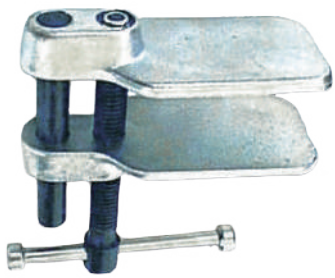
Bullet points

- 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

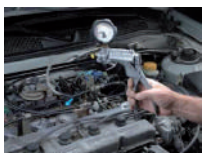
MITYVAC VACUUM GAUGE H1395



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.

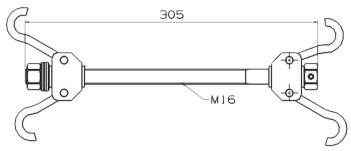




Ref.	Pressure	Vacuum	Deposit	⚖
H1395	4 Bar	1 Bar	450ml	2,4

COIL SPRING COMPRESOR CENTRAL SPINDLE 5091





Extractor for vehicle suspensions.
It allows to contract easily the damping springs.

Bullet points
- Suitable for keeping the spings 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 spings 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

WACTH VIDEO

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

WACTH VIDEO

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

WACTH VIDEO

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.

			Spare parts
Ref.	Ø	⚖	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



WACTH VIDEO

TYRE AIR PRESSURE TESTER 32800



Tool for measuring tire pressure.
Up to 2,5bars.

Ref.	
032800	0,1

TYRE PRESSURE TESTER

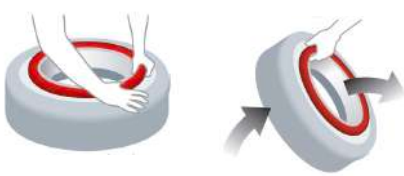


Tool for measuring tire pressure.
With dial indicator.
Units: kg/cm2 and lb/sq in.
Pressure measure from 0,5 to 4,5 kg/cm2.

Ref.	
T61100	0,1

TYRE BEADING RING RUD10130





A necesary 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

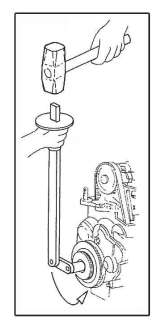


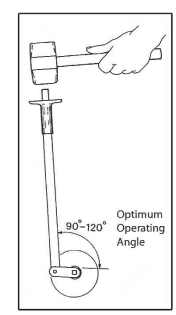
Allows to remove and replace the rocker arms without disassembling the radiator.
Used with hammer.

Bullet points

- No compressed air required.

Ref.	⚖
H6252	2,4





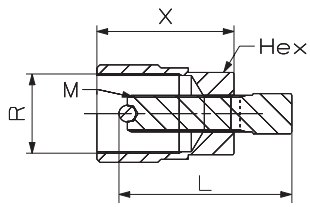
MAGNETIC PLATES EXTRACTOR SET FOR EXTERNAL THREAD 5224IN1000



Magnetic plate extractor with internal thread.

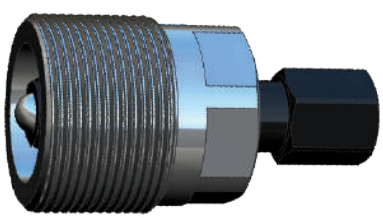
Bullet points

- 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



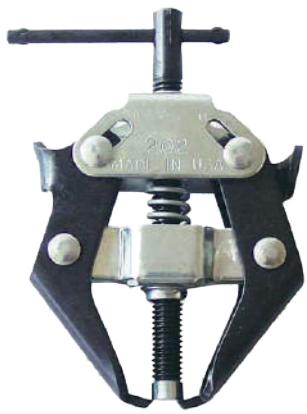
Battery terminal puller.
Suitable tool suitable for removing battery terminals from heavy vehicles.

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

REMPLACEMENT 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.

		Spare parts		
Ref.	Ømax	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



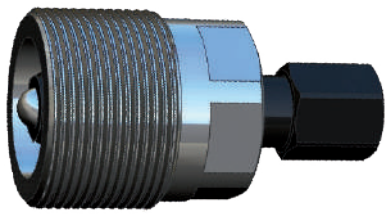
Suitable for all windshield wiper and small extractions.
Contains:
1 external puller 1001.
1 puller 5701L
1 puller 5702 without spindle and protector.

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.

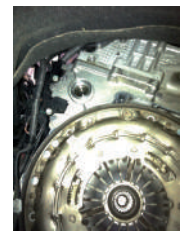
Ref.	⚖	Puller	Windshield wiper puller
5700	1,1	1001	5702 5701L

INJECTOR PUMP EXTRACTOR 60120



It is necesary 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.

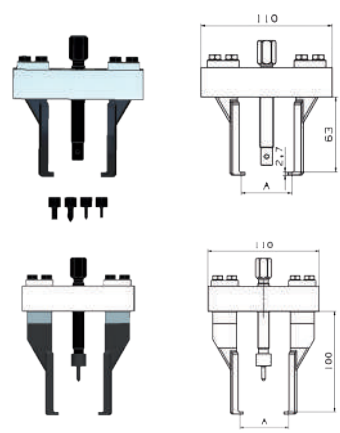


Ref.	Lenght	
T51990	900	2,0

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

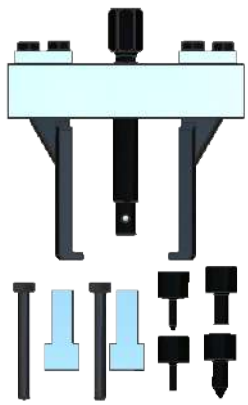
GROOVES CLEANER 5040



Specially designed tool for cleaning automotive piston growed.
It includes 2 rotating blades with channel sizes each blade.

Ref.	
5040	0,4

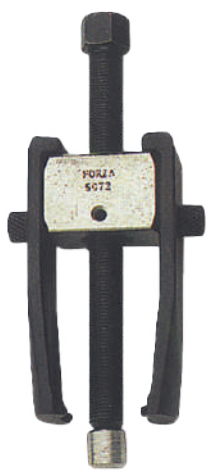
ALTERNATOR BEARING PULLER 5075

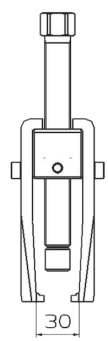


Complete set to remove alternator bearings.
Supplied with 4 additional point protectors.
Supplied in a cardboard box.

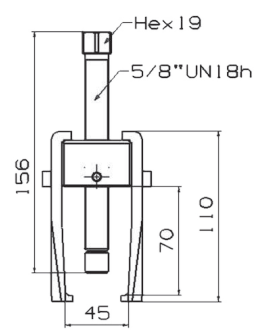
Ref.	Ømax	Ømin	
5075	60mm	20mm	0,9

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.

			Spare parts
Ref.	Lenght	⚖	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 dollys 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







OTHER TOOLS









FORZA®

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 Magneitc holders 291


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Snap ring pliers 296-297


Other pliers..... 298-299


Flaring tools brake pipes 300


Pin punches with ergonomic handle.....301


Pin punches without ergonomic handle.....302

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.

WATCH VIDEO

Ref.	D-Diameter	⚖	Blades
NEST	M4 A M13	0,1	06045 06046

EXTERNAL BLADES FOR NEST



Ref.	Degrees	Norm	⚖
06045	55º	Whitworth	0,1
06046	60º (Included in the restorer)	Métrica/UN	0,1

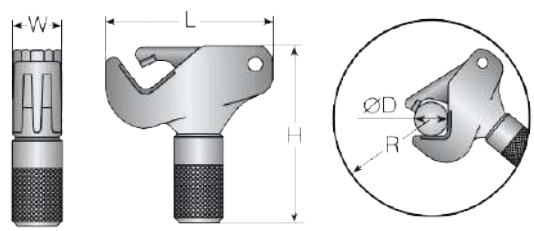
EXTERNAL THREAD REPAIR SET NES1A — NES1A



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

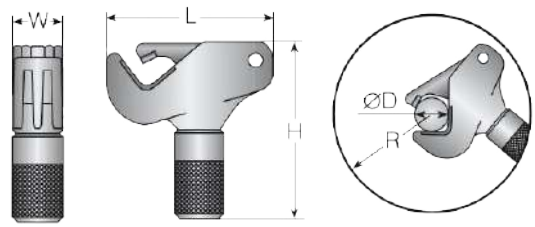
INTERNAL THREAD REPAIR SET NES2 NES2



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



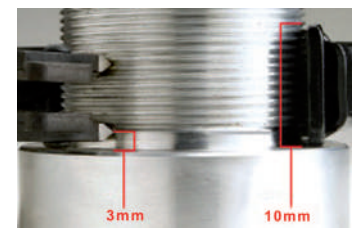


The tool V-shaped thread seat is narrower to reduce the gap between the blades to the tool sides.
The combination of multi-teeth cutting blade with Keyway Skip Accessory makes your repairing outcome easy and perfect even on threads with keyway.

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

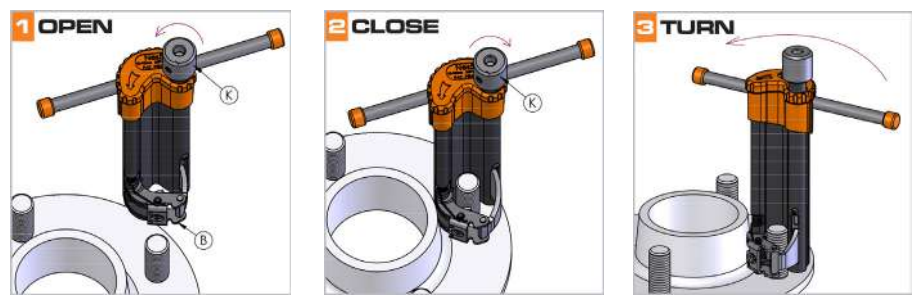
EXTERNAL THREAD REPAIR SET NES5 — NES5



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.

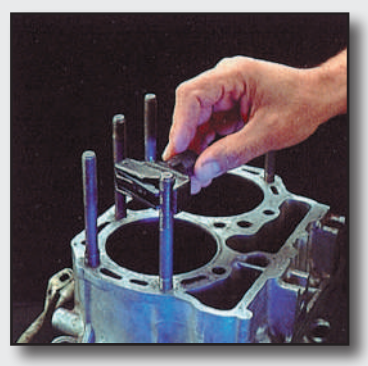


Ref.	D-Diameter	
NES5	10 - 18	0,9

EXTERNAL THREAD REPAIR TOOL

WATCH VIDEO

Aplication



- 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

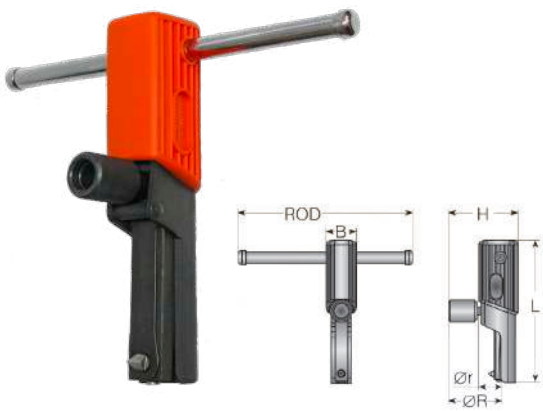
WATCH VIDEO

Aplication



- 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

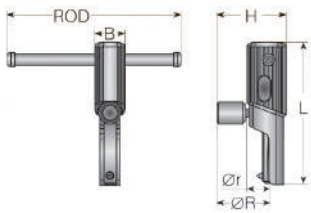
INTERNAL BLADES FOR NES21



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 , repa.iring 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

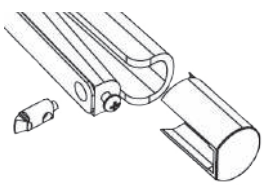
INTERNAL BLADES FOR NES25/26/27/28/29



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 diametre M4 to M18 mm.
Internal diametre 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 diametre M4 to M38 mm.
Internal diametre 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

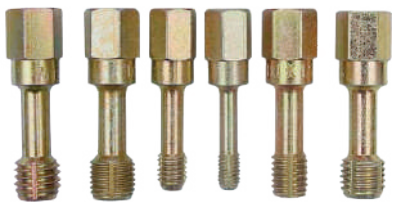
SET OF 5 FEMALE THREAD RESTORERS 509597



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

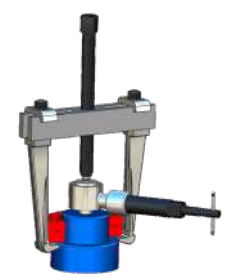


WATCH VIDEO

Hydraulic system with manual return to increase the forze 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 limitated 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 forze 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

WATCH VIDEO






FAST REVERSIBLE HANDLE 82012



Manual with ½" 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.

WATCH VIDEO

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	Lenght	
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 ±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



¾" sq. dr. Torque Wrench / 200 - 800 N.m / 150 - 600 lbf.ft.

New Torque Scale.
Push-through ratchet allows two directional torqueing.
Robust construction gives accurate results to ±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 torqueing.
- Easy to set accurately - setting tool included.

Ref.	Square	Nm	
802400	3/4"	200-800	0,1

MECHANICAL NUT SPLITTERS 6310



New improved deisng 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 60º.



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 (45º and 60º) 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	6311I 6313I 6311I



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 DEPHT :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

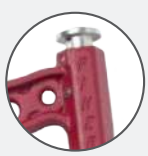
MAXIPRESS R CLAMP DEPTH:160 mm — P610300



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



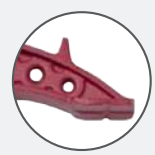
Piston system with no torsion:
Protects the screw mechanism from any possible blow or dirt, extending the life of the clamp.
The plunger does not rotate, allowing 2 pieces to be glued without the risk of slipping.



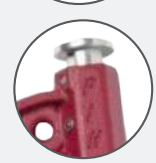
Ergonomic and interchangeable articulating handle:
It can be used horizontally, not only vertically, being able to exert more pressure due to the lever effect. Withstands 180° of temperature and is interchangeable.



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



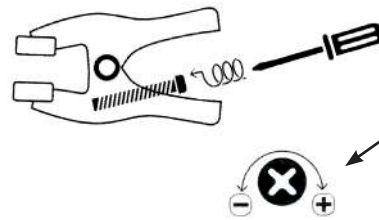
Set of 2 units.

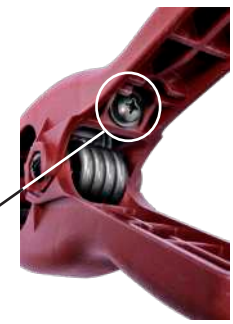
Ref.	⚖
P52505	0,1

ADJUSTABLE SPRING CLAMP P309100



Ajustable screw pressure.
Nylon and fibreglass body.
Ajustable 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

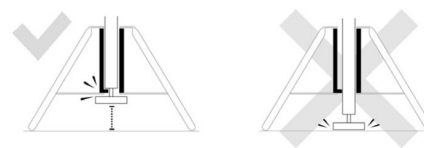
- Spring system for a quick fixation.
- It an work outdoors. Oxidation resistan.

Ref.	Maximum lenght	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 lenght	⚖
P34093	168	300	2,9

MAGNETIC HOLDERS P290030

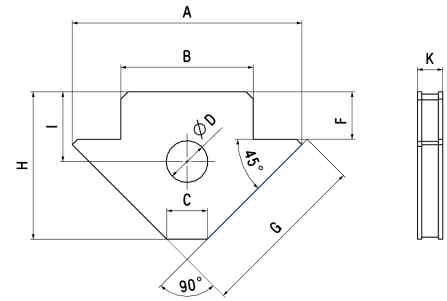


Ferrite magnet protected with bakelite resistant to high temperatures
For welding 45º and 90º angles.
2,5mm thick steel sheet joined with threaded screws.

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					

SRONG 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



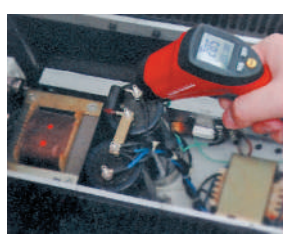
Pickup clamp with lighting.
Four claw jaws suitable to pick up non-magnetic objects
It is not magnetized.

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, fautly wheel bearings, alternator problems, etc...

Ref.	⚖
323700	0,2

TELESCOPIC MAGNET AND MIRROR SET H6690



High quality.
Solvents and schocks resistant.

Bullet points
- Shock and solvent resistant.

Ref.	⚖	Mirror	Magnet
H6690	0,3	H6612	H6652

HICH 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 andseals 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.

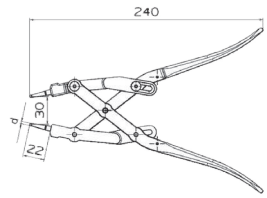
WATCH VIDEO

Ref.	B max	Bmin	C	E	
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 — 5800N0



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

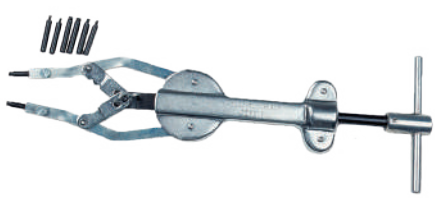
SPINDLE SNAP RING PLIER — 5870



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

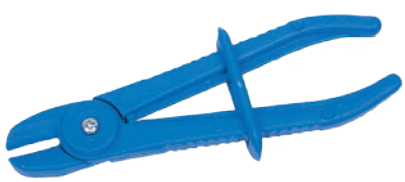
SNAP RING PLIER — 28300



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, Chrylser, Ford, GM, Honda, Mazda, Mercedes, Nissan and VAG.

Ref.	⚖
T51860	0,4

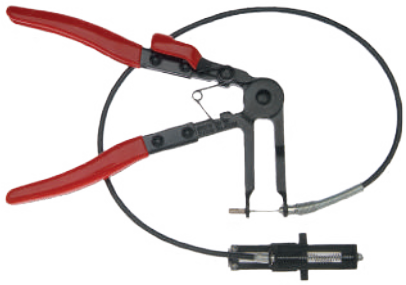
SW SNAP RING PLIERS T51862



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 popularcar 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

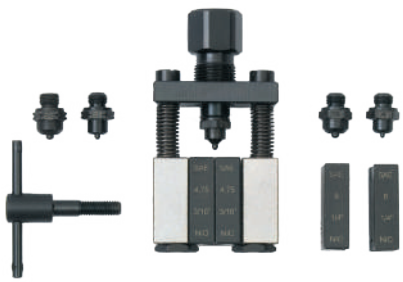


This tool makes either convexus or double as per DIN and SAE normatives lap flares.

Para tubos 4, 5, 6, 8, 10, 12 y 15 mm de diámetro.

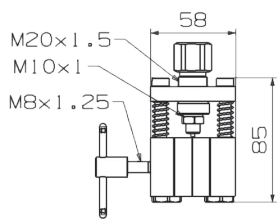
Ref.	Ømin	Ømax	⚖
5060	4	15	0,9

BRAKE PIPES FLARING TOOL 5061



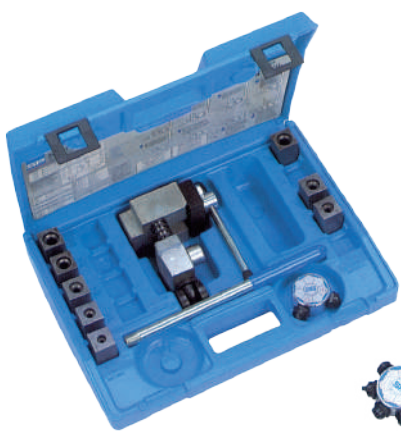


Suitable for copper or iron pipes.
Convex SAE flare, double SAE flare and DIN flare can be realized.



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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