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**FORZA**



**MECHANICAL**



**PULLERS**



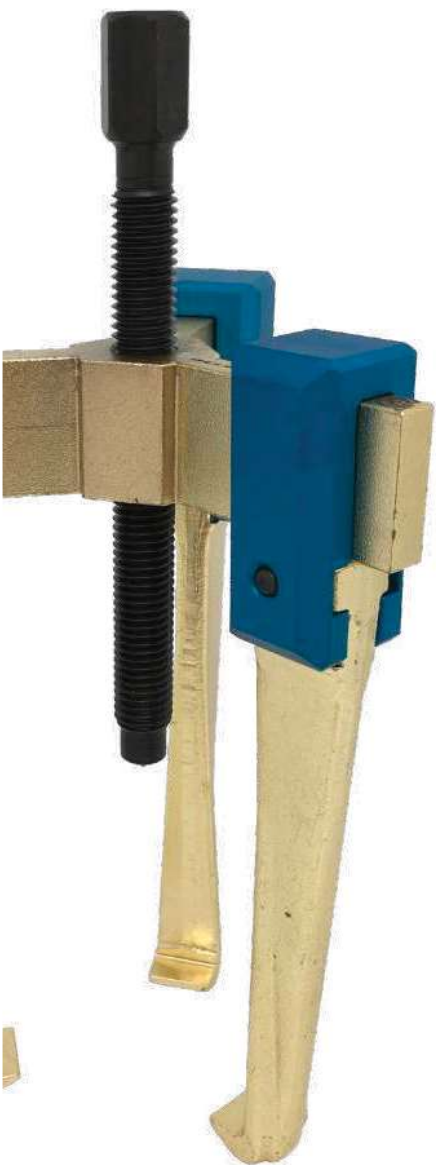
# PULLERS:











Designed by FORZA since more than 50 years.

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










## EXTERNAL PULLERS



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

**INTERNAL PULLERS AND EXHIBITORS**

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



## MECHANICAL SPINDLES

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

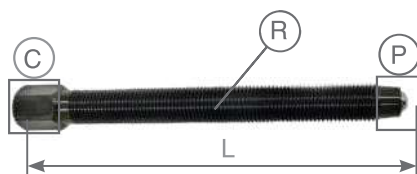




Serie	Puller	R	L	C	Point
274503	2745 / 2745T	M18 x 1,5	280	19	
130703	1307+ / 1407+ / 1408+ / 1907+ 7307+ / 7308+	M18 x 1,5	235	23	
279103	2791	M18 x 1,5	270	19	
160303	1600-3	M18 x 1,5	315	24	
901003	9010+ / 1760+	M18 x 2,5	230	22	
750703	7507 / 7507T	M18 x 1,5	334,5	20	
242003	2420+ / 2425+	M20 x 1,5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

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

+ All versions




**FIXED POINT PROTECTOR FOR MECHANICAL PULLERS**

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




\*Supplied in boxes of 3 units.

Ref.	ØD (External diameter)	Ød (Internal diameter)	H (Height)	
<b>P0001</b>	8	6	12	0,1
<b>P0004</b>	13	10	14	0,1
<b>P0010</b>	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)	
<b>111037</b>	38	16,5	21	0,1
<b>111837</b>	40	32	17	0,1
<b>113037</b>	44	38	18	0,2
<b>119537</b>	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)	
<b>1002K9</b>	14	10	14	0,1
<b>4110K9</b>	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)	
<b>180537</b>	20	5	18	0,1
<b>181037</b>	25	8	20	0,1



2 JAWS SERIE 1000 1000



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

**Bullet points**

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



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



**2 JAWS SERIE 2400**

**2400**

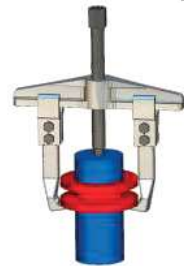







Two-jaws rigid puller for external and, occasionally, internal applications.

Forged jaws with clamps and screws and hexagon head spindle.

**Bullet points**

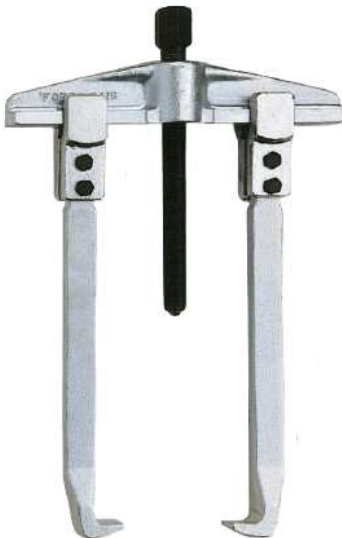
- Most popular on the market.
- Short and long jaws available.
- Ball spindle for better support.



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

**2 LONG JAWS SERIE 2400L**

**2400L**








Two-jaws rigid puller for external and, occasionally, internal applications.

Forged jaws with clamps and screws and hexagon head spindle.

**Bullet points**

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



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





3 JAWS SERIE 2400T

2400T

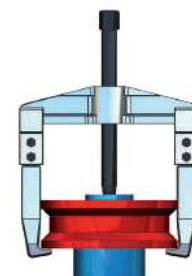


Three-jaws rigid puller for external and, occasionally, internal applications. Forged jaws with clamps and screws and hexagon head spindle.



**Bullet points**

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



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

3 LONG JAWS SERIE 2400LT

2400LT



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



**Bullet points**

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

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

2 JAWS SERIE 9000

9000








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



**Bullet points**

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

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

3 JAWS SERIE 9000T

9000T

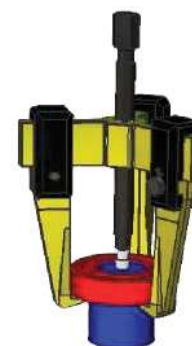







Three-jaws rigid puller for external and, occasionally, internal applications.  
Forged jaws with aluminium clamps and push puller-type body.



**Bullet points**

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



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



2 JAWS SERIE 9100 9100



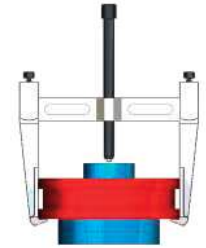
Two-jaws rigid puller for external and, occasionally, internal applications. Monobloc forged jaws.

The 9130, 9132 and 9134 jaw pullers include an extension part for the spindle.



**Bullet points**

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



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

3 JAWS SERIE 9100T 9100T



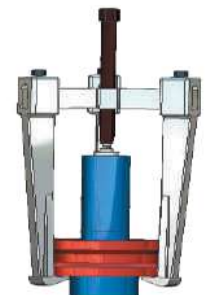
Three-jaws rigid puller for external and, occasionally, internal applications.

Monobloc forged jaws.



**Bullet points**

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




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

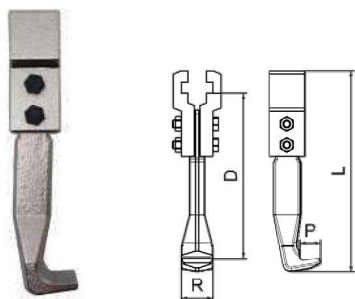



**COMPLETE FIX JAW SERIE 1000**



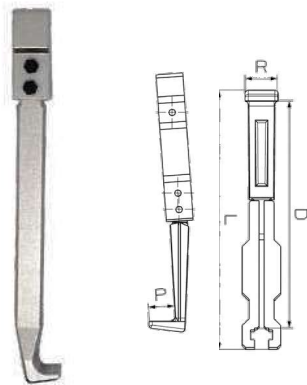
Ref.	Total jaw length (L)	Jaw width (R)	Shovel depth (P)	Useful jaw length (D)	
100150	77,7	9	5	51	0,1
100250	127	12	8	80	0,2
100260	184	15	8	137	0,3
101050	227	26	17	160	0,7
101060	285	28	17	220	1,0
102050	354	36	18,5	260	2,3
102060	455	35	24	390	3,7
102055	354	36	18,5	260	2,3
102065	455	35	24	390	3,7


**COMPLETE FIX JAW SERIE 2400-2400T**



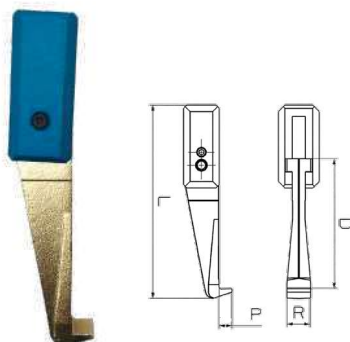
Ref.	Total jaw length (L)	Jaw width (R)	Shovel depth (P)	Useful jaw length (D)	
A90	125	20,5	12,5	100	0,5
B150	187	25	15	155	1,0
C200	255	35	24,5	205	2,0
D225	270	49,5	38	225	5,1


**COMPLETE FIX JAW SERIE 2400L-2400LT**



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

**COMPLETE FIX JAW SERIE 9000-9000T**

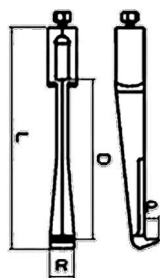


Ref.	Total jaw length (L)	Jaw width (R)	Shovel depth (P)	Useful jaw length (D)	
900250	119	20,5	12,5	80	0,1
900260	169	20	12,5	130	0,2
901050	222	25	15	160	0,6
901060	283	25	16	215	0,8





COMPLETE FIX JAW SERIE 9100-9100T



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

HEXAGONAL HEAD SPINDLES FOR SERIE 1000



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

SQUARE HEAD SPINDLES FOR SERIE 1000



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


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



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


**SPINDLES FOR SERIE 9000-9000T**



Ref.	R (Thread)	L (Length)	C (Distance between faces)	Head	Point	
<b>900203</b>	M12 x 1,75	145	14	Hexagonal	Fixed	0,1
<b>901003</b>	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	
<b>912031</b>	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



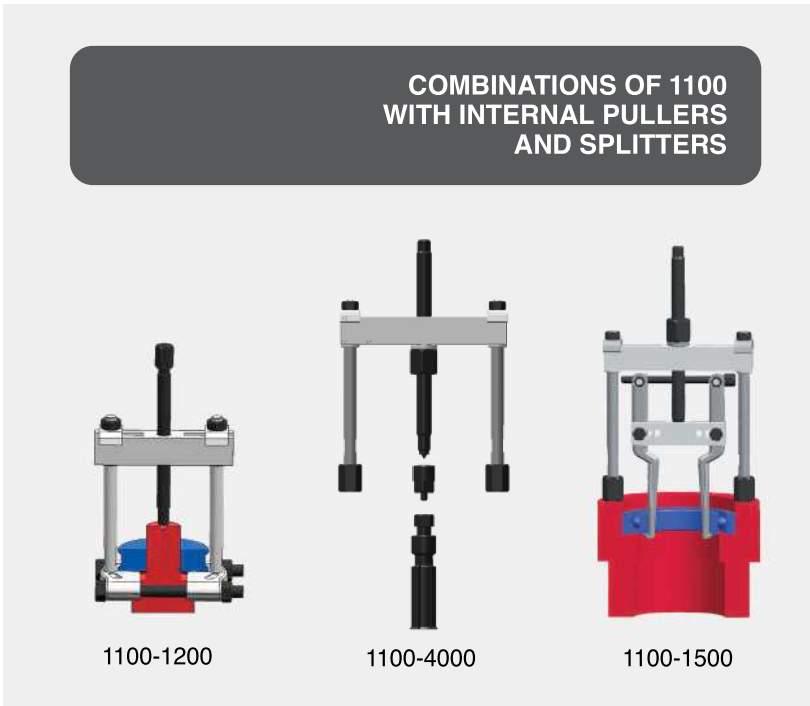
1110 - 1150

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

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

**PUSH PULLER SERIE 1100S**

**1100S**








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

**Bullet points**

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



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

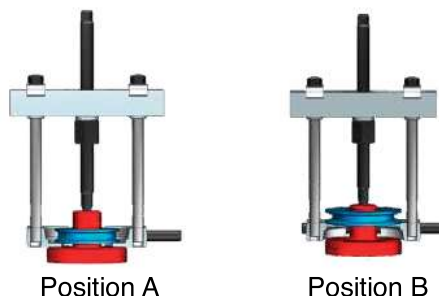


Space jaw puller.  
It combines with 1100, 1100S mechanical pullers series and with the 1100H hydraulic puller series.  
Thanks to its reduced thickness it can be used in small spaces.



**Bullet points**

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



Ref.				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**

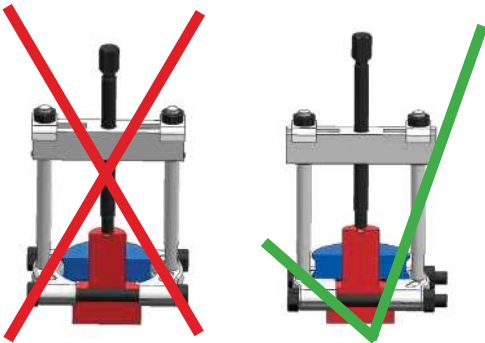
**1100-1200**







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

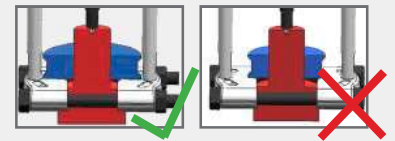
**Bullet points**

- The push puller is also suitable for internal extractions.



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

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



**PUSH PULLERS AND SPLITTERS 1100S-1200**





**1100S-1200**



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

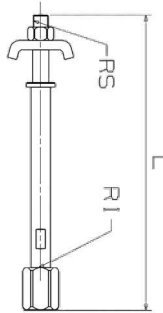
**Bullet points**

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

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



COMPLETE EXTENSION FOR SERIE 1100-1100S



Complete extension that includes:

- Extension
- Washer
- Clamp

- Tightening
- Nut
- Stopped nut

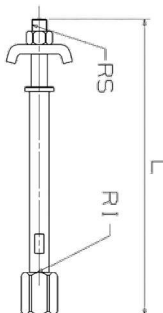
Ref.	Length (L)	Top Thread (RS)	Lower Thread (RI)		Extension
110280	158	M10	3/8"UNF 24h	0,3	1102-150
111080	230	1/2"UNF 20h	5/8"UNF 18h	0,6	1110-230
112080	311	3/4"UNF 16h	5/8"UNF 18h	1,7	1120-336
113580	582	1"UNS 14h	1"UNS 14h	5,0	1130-582
115080	820.5	1"1/4UNS 12h	1"1/4UNS 12h	10,0	1152-820

EXTENSIONS FOR SERIE 1100-1100S



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

COMPLETE HYDRAULIC EXTENSION FOR SERIE 1100H



Complete extension that includes:

- Extension
- Washer
- Clamp

- Tightening
- Nut
- Stopped nu


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

3 JAW LIGHT PULLER SERIE 2840T

2840T



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



**Bullet points**

- Improved extraction with three points of support.

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



2 JAWS SERIE 1300

13000



2 oscilating jaw puller.  
Jaws with 2 holes.

**Bullet points**

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



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

2 LONG JAWS SERIE 1300L

1300L0



2 oscilating jaw puller.  
Jaws with 3 holes.

**Bullet points**

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



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



2 EXTRA LONG JAWS SERIE 1300X

1300X



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



**Bullet points**

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

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

3 JAWS SERIE 1300T

1300T

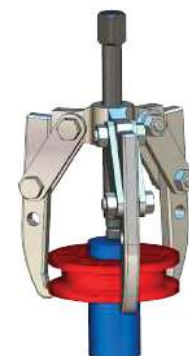


3 oscillating jaw puller.  
Jaws with 2 holes.



**Bullet points**

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



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



**3 LONG JAWS SERIE 1300LT**

**1300LT0**








3 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 bronze nut for protection.

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



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



2 JAWS SERIE 7300 7300

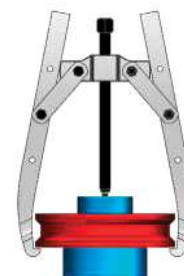


2 oscillating jaw puller.  
Jaws with 3 holes.  
The arms tip is thin and slotted to pull with a screw head.



**Bullet points**

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



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

2 LONG JAWS 7300L SERIE 7300L

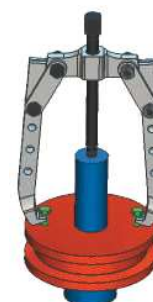


2 oscillating jaw puller.  
Jaws with 4 holes.  
The arms tip is thin and slotted to pull with a screw head.



**Bullet points**

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



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



**3 JAWS SERIE 7300T**

**7300T**







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



**Bullet points**

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

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

**2 LONG JAWS 7300L SERIE**

**7300LT**







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



**Bullet points**

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

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





2 JAWS SERIE 9300

93000

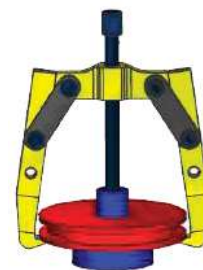


2 oscillating jaw puller.  
The tip of the jaw is very thin in order to access to small places.



**Bullet points**

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



Ref.	A	B <sub>max</sub>	C	Scales	Spare parts		Accessories
					Spindle	Jaw	Point protector
9300	55	70	37	0,2	130003	930050	P0001
9301	85	100	70	0,5	130103	930150	P0001

3 JAWS SERIE 9300T

9300T0



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



**Bullet points**

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

Ref.	A	B <sub>max</sub>	C	Position	Scales	Spare parts		Accessories
						Spindle	Jaw	Point protector
9300T	55	70	37	3 jaws	0,3	130003	930050	P0001
9301T	85	100	80	2/3 jaws	0,7	130103	930150	P0001



**3 JAWS SELF CENTERING PULLER SERIE 1300ALT**

**1300ALT**








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



**Bullet points**

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



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

**3 EXTRA LONG JAW SELF CENTERING PULLER SERIE 1300AXT**

**1300AXT**







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



**Bullet points**

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

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



3 JAWS SELF CENTERING PULLER SERIE 7300AT 7300AT



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



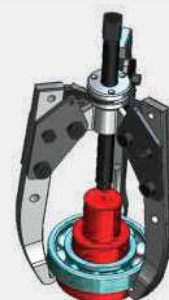
**Bullet points**

- Different jaw positions.
- Square head spindle for a better grip with a wrench.
- Self-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 <sub>max</sub>	C	Scales	Spare parts		Accessories
					Jaw	Spindle	Point protector
7301ALT	120	125	80	0,9	730186	130103	P0001
7301AT	105	110	80	0,9	730185	130103	P0004
7304ALT	210	220	104	2,5	730486	130403	P0004
7304AT	185	175	104	2,3	730485	130403	P0004
7307ALT	270	280	108	6,7	730786	130703	P0004
7307AT	225	240	108	6,5	730785	130703	P0004

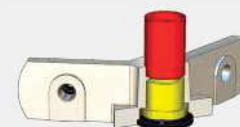
**Why self centering?**

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



**Body with bronze nut**

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



PULLERS REPAIR KIT



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



2 JAWS ADJUSTABLE PULLER

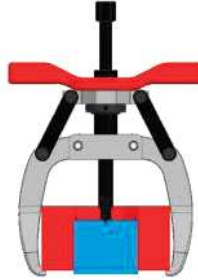
7500



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

Bullet points

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



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



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

3 JAWS ADJUSTABLE PULLER

7500T



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

Bullet points

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



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



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



2 JAWS LIGHT PULLER SERIE 2740 2740



2 self centering light puller.  
This serie has the characteristic that the legs interlock nut 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.					Spare parts	
					Spindle	Jaw
2741	80	80	77	0,5	274103	274105
2743	116	122	91	0,9	274303	274305
2745	160	161	102	1,8	274503	274505
2748	200	202	134	3,3	274803	274805

3 JAWS LIGHT PULLER SERIE 2740T 2740T



3 self centering light puller.  
This serie has the characteristic that the legs interlock nut 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.					Spare parts	
					Spindle	Jaw
2741T	80	80	77	0,6	274103	274105
2743T	116	122	91	1,1	274303	274305
2745T	160	161	102	2,3	274503	274505
2748T	200	202	134	4,2	274803	274805




**COMPLETE OSCILLATING JAW SERIE 2840-2840T**



Ref.	Total jaw length (L)	Jaw width (R)	Shovel depth (P)	Useful jaw length (D)	
<b>284105</b>	56	9,5	6	40	0,1
<b>284205</b>	87,5	10	8	65	0,1
<b>284305</b>	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)	
<b>130050</b>	70	6,5	4,5	70	0,1
<b>130150</b>	106	8	6,5	85	0,1
<b>130450</b>	166	21	7	135	0,9
<b>130750</b>	217	25	8,5	180	0,8
<b>131050</b>	355	25	15	300	1,8
<b>131750</b>	435	32	15,5	370	3,8
<b>133050</b>	557	42	23	460	6,7
<b>135050</b>	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)	
<b>130060</b>	85	6,5	4,5	70	0,1
<b>130160</b>	127	7,5	7	105	0,1
<b>130460</b>	219	21	8	185	1,0
<b>130760</b>	264	25	8	225	1,0
<b>131060</b>	436	25	15	400	2,1
<b>131760</b>	550	31	17,5	480	4,5
<b>133060</b>	698	41	24	590	7,8
<b>135260</b>	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)	
<b>131066</b>	516	25	15	480	2,4
<b>131766</b>	665	31	17,5	595	5,5
<b>133066</b>	823	41	24	710	9,9
<b>135266</b>	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	
<b>130003</b>	M8 x 1	92	9	Square	Fixed	0,1
<b>130103</b>	M10 x 1	110	12	Square	Fixed	0,1
<b>130403</b>	M14 x 1,5	180	16	Square	Fixed	0,2
<b>130703</b>	M18 x 1,5	235	23	Square	Fixed	0,4
<b>133031</b>	1 3/8" UNF 12h	495	35	Square	Retractable	3,6
<b>135032</b>	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)	
<b>130186</b>	127	7,5	7	105	0,1
<b>130486</b>	219	21	8	185	0,3
<b>130786</b>	264	25	8	225	0,7
<b>133006</b>	698	41	24	300	6,0
<b>135206</b>	1060	65	35	370	17,0
<b>131005</b>	355	25	15	410	1,3
<b>131705</b>	435	32	15,5	500	2,5
<b>131006</b>	436	25	15	600	1,6
<b>139506</b>	1410	70	44	710	42,5
<b>131706</b>	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)	
<b>135216</b>	1210	45	56	830	20,0
<b>131016</b>	516	25	15	490	2,0
<b>131716</b>	665	31	17,5	615	4,2
<b>133016</b>	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)	
<b>730786</b>	317	24	14,5	270	0,9
<b>730185</b>	121	13	7	105	0,1
<b>730186</b>	140	13	7	120	0,1
<b>730485</b>	205	17	11,5	185	0,3
<b>730486</b>	247	17	11,5	210	0,3
<b>730785</b>	273	24	14,5	225	0,8



SELF CENTERING JAW SERIE 1500-1500T



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

SELF CENTERING JAW SERIE 2740-2740T



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

SPINDLES FOR SERIES 7500-7500T



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

SPINDLES FOR SERIE 2740-2740T



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

2 JAWS SERIE 1400

1400



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



**Bullet points**

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

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

3 JAWS SERIE 1400T

1400T

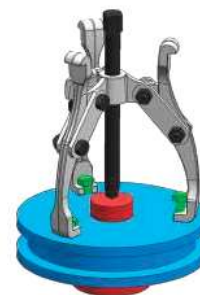


3 reversible jaws puller  
Two types of jaws: one wider than the other  
From 1407T onwards the wide side of the jaw is slotted for pulling screws.



**Bullet points**

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



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



2 LONG JAWS SERIE 1400L 1400L







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



**Bullet points**

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

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

3 LONG JAWS SERIE 1400LT 1400LT

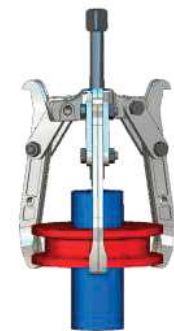






3 reversible long-jawged puller.  
Two types of blade: one wider than the other.  
The wide side of the jaw has an indentation for pulling screws.



**Bullet points**

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




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




**REVERSIBLE JAW SERIE 1400-1400T**



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

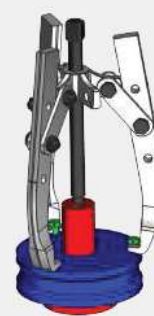
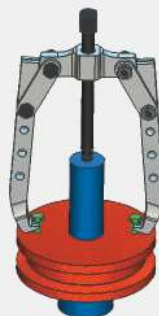
**REVERSIBLE JAW SERIE 1400L-1400LT**



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



Jaws with a slotted to pull with screw.

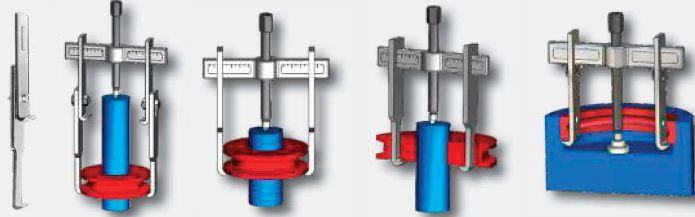






### Multiple pullers for various applications

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

**KIT SERIE 1800-C**

**1800C**







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



**Bullet points**

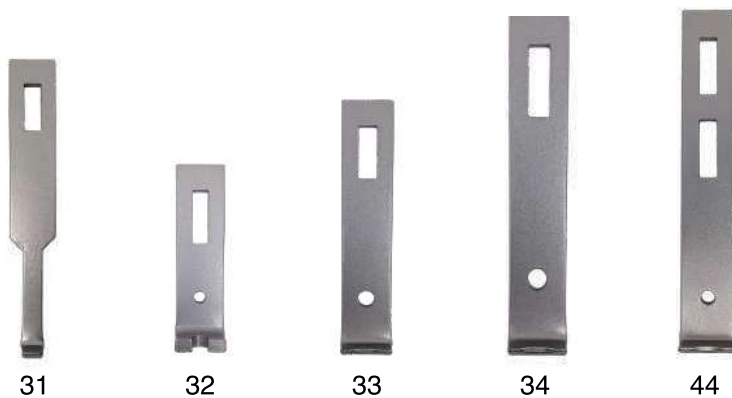
- Features 4 sets of jaws.
- Quick positioning and changing of the spring-loaded jaws.
- Two jaws can be joined together for extra height.



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



MULTIPURPOSE JAW SERIE 1800-1800T-1800C



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

32 jaws have a groove to pull with screws

2 jaws can be joined together for extra height

COMPLETE SPINDLES WITH POINT FOR SERIE 1800-1750



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



**2 THIN JAWS PULLER SERIE 1750**

**17500**

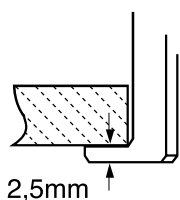







2 thin jaw puller for external applications.  
Spindle with 60° rotating point.  
Make sure that the jaws are well supported on the workpiece to be extracted.



**Bullet points**

- Very slim jaws for access to narrow places.



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

**3 THIN JAWS PULLER SERIE 1750T**

**1750T0**








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



**Bullet points**

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

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

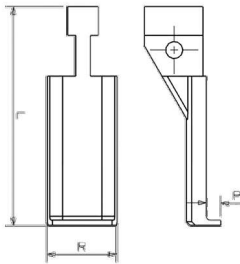


COMPLETE THIN JAW SERIE 1750-1750T



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

THIN JAW WITHOUT CLAMPS



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

**Thin jaws puller**

Best extractions for narrow places

Correct use of jaws to avoid breaks



SCISSORS PULLER SERIE 2640

2640



2641E

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

**Bullet points**

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



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

EXTERNAL PULLER SERIE 1900E

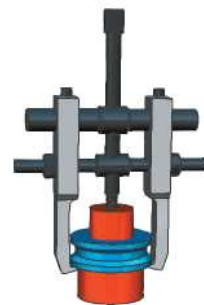
1900E



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

**Bullet points**

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



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





2 THREADED JAWS PULLER SERIE 1900R

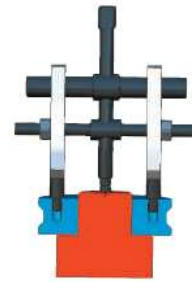
1900R



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

Bullet points

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



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

BEARING PULLER SERIE 1900

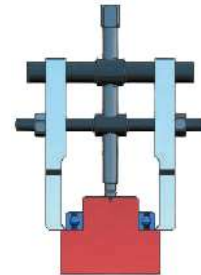
1900



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

Bullet points

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



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

BEARING PULLER SEPARATOR SERIE 2791

2791



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

Bullet points

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



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

**V-BELT PULLERS**

**1900V**







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



**Bullet points**


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



Ref.				C (Body width)		Spare parts	
						Jaw	Spindle
<b>1904V</b>	60	115	35	85	2,3	190425 190426	130403
<b>1907V</b>	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	
<b>264105</b>	22	4	3	90	Narrow	0,1
<b>264106</b>	22	4	3	90	Wide	0,1
<b>264115</b>	12	4	3	90	Narrow	0,1
<b>264116</b>	12	4	3	90	Wide	0,1
<b>264205</b>	30	6,5	3,5	125	Narrow	0,2
<b>264206</b>	30	6,5	3,5	125	Wide	0,2
<b>264305</b>	30	6,5	3,5	125	Narrow	0,3
<b>264306</b>	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)	
<b>279105</b>	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	
<b>1600-1</b>	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	
<b>1600-2</b>	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	
<b>1600-3</b>	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 accessible 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	Scales	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	Scales
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.	Ref.			Collet	Spare part	
					Spindle	
<b>1700-1</b>	608-609	626-627-629	6000-6001	1,5	170608 - 170609 - 170626 170629 - 176000 - 176001	170103
<b>1700-2</b>	6002-6003	6200-6203	6300-6302	3,5	176002 - 176003 - 176200 176201 - 176202 - 176203 176300 - 176301 - 176302	170203
<b>1700-3</b>	6004-6005	6204-6206	6303-6306	7,0	176004 - 176005 - 176204 176205 - 176206 - 176303 176304 - 176305 - 176306	170303
<b>1700-4</b>	6006-6008	6207-6209	6307-6309	12,5	176006 - 176007 - 176008 176207 - 176208 - 176209 176307 - 176308 - 176309	170403
<b>1700-5</b>	6010-6012	6210-6212	6310-6312	17,5	176010 - 176011 - 176012 176210 - 176211 - 176212 176310 - 176311 - 176312	170503




**BEARING PULLER WITHOUT GRIPS**



Ref.	
<b>S1701</b>	1,0
<b>S1702</b>	1,7
<b>S1703</b>	3,3
<b>S1704</b>	5,9
<b>S1705</b>	9,7

**BALL BEARING COLLETS FOR MECHANICAL PULLER**



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

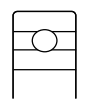
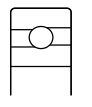
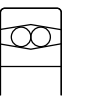
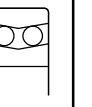
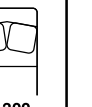

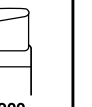



**Bullet points**

- Aluminium rings prevent bearing damage.

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

**Table of mounting bearings**

$\varnothing I$	$\varnothing E$	Serie									
		6000-6200 6300-6400	7200B 7300B	1200-2200 1300-2300	3200 3300	21300 22200 22300	UN - NJ - N 20	30200 30300 31300	32200 32300		
Ø25	10	26	6000-16100	7208	129	3200					
	10	30	6300		1200-2200						
	10	35									
	12	28	6001-16101	7201B	1201-2201	3201					
Ø38	12	32	6201	7301B							
	12	37	6301								
	15	32	6002-16002	7202B	1202-2202	3202			202	30202	
Ø60	15	35	6202	7302B	2302	3302					
	15	42	6302								
	17	35	6003-16003	7203B	1203-2203	3203			203	30203	32203
Ø25	17	40	6203	7303B	1303-2303	3303			303	30303	32303
	17	47	6303								
	20	42	6004-16004	7204B	1204-2204	3204	21304		204	32004	
	20	47	6204	7304B	1304-2304	3304			304	30204	32304
Ø38	20	52	6304							30304-31304	
	25	47	6055-16005	7205B	1205-2205	3205		1005	32005		32205-33205
	25	52	6205	7305B	1305-2305	3305	22205	205	30205	30305-31305	32305
Ø60	25	62	6305-6404					305			
	30	55	6006-16006	7206B	1206-2206	3206		1006	32006		32206-33206
	30	62	6206	7306B	1306-2306	3306	22206	206	30206	30306-31306	32306
Ø60	30	72	6306-6405					306			
	35	62	6007-16007	7207B	1207-2207	3207		1007	32007		32207-33207
	35	72	6207	7307B	1307-2307	3307	22207	207	30207	30307-31307	32307
Ø60	35	80	6307-6406					307			
	40	68	6008-16008	7208B	1208-2208	3208		1008	32008		32208-33208
	40	80	6208	7308B	1308-2308	3308	22208	208	30208-33108	30308-31308	32308
Ø60	40	90	6308-6407					308			
	45	75	6009-16009	7209B	1209-2209	3209		1009	32009-33009		32309
	45	85	6209	7309B	1309-2309	3309	22209	209	33109-30209	30309-31309	
Ø60	45	100	6309-6408					309			
	50	80	6010-16010	7210B	1210-2210	3210		1010	32010-33010		32210-33210
	50	90	6210	7310B	1310-2310	3310	22210	210	33110-30210	30310-31310	32310
Ø60	50	100	6310-6409					310			



**BALL BEARING PULLERS SERIE 4100**

**4100S**

Ball bearing puller set in case.

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

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



**Bullet points**

- Ball jaws for quick removal.



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



**WATCH VIDEO**



**BALL BEARING PULLERS WITHOUT BALLS**

**41000**





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



**Bullet points**

- Ball jaws for quick removal.

Ref.	Ømin	Ømax			Spindle	Spare parts	
						Ball	Point protector
<b>410000</b>	20	95	6004 to 6010 - 6200 to 6205 - 6300 to 6304 - 61812 to 61816	0,5	110203	410011 410012 410013	1002K9
<b>410500</b>	35	117	6008 to 6017 - 6205 to 6212 - 6304 to 6308 - 6404 to 6405	0,5	411003	411013A 411014 411015 411016 411017A	4110K9
<b>412500</b>	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
<b>410011</b>	5,3
<b>410012</b>	6
<b>410013</b>	8
<b>411013A</b>	8
<b>411014</b>	9
<b>411015</b>	11
<b>411016</b>	12,6

Ref.	Ø
<b>411017A</b>	16
<b>412507</b>	16
<b>412508</b>	19
<b>412509</b>	22
<b>412510</b>	25
<b>412511</b>	28
<b>412512</b>	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.

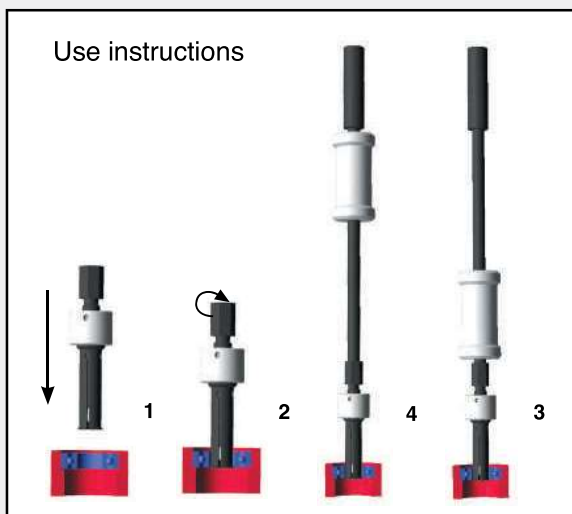


**Bullet points**

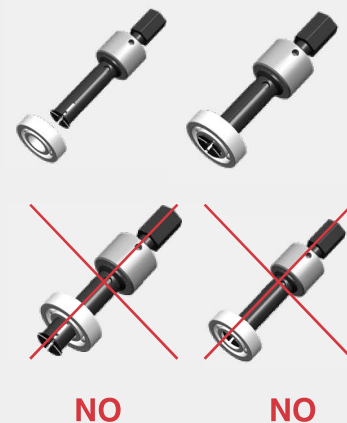
- Compatible with two extraction systems.
- Perfect for extractions without space under the workpiece.

Ref.						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

Use instructions



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



IMPORTANTE

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





**INTERNAL COLLETS SERIE 4000**

**40000**



Collet type internal puller.

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






Made in CrVa steel.

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



**Bullet points**

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

Ref.	 Ø <sub>max</sub>	 Ø <sub>min</sub>	 M			Accessories		Spare part	
						Spindle	Collet	Push puller	Slide hammer
<b>4000</b>	8	6	M8X1,25	11	0,1	400007	400005	4521	4590
<b>4010</b>	10	8	M8X1,25	15	0,1	400007	401005	4521	4590
<b>4010A</b>	11	9	M8X1,25	40	0,1	401107	401015	4521	4590
<b>4011</b>	13	11	M8X1,25	40	0,1	401107	401105	4521	4590
<b>4012</b>	17	13	M8X1,25	48	0,1	401207	401205	4521	4590
<b>4013</b>	23	18	M8x1,25	56	0,2	401307	401305	4522	4590
<b>4014</b>	30	23	1/2"20h	71	0,3	401407	401405	4522	4590
<b>4015</b>	37	30	1/2"20h	80	0,7	401507	401505	4522	4590
<b>4016</b>	52	38	1/2"20h	84	1,3	401607	401605	4522	4590
<b>4017</b>	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.	 Ø <sub>max</sub>	 Ø <sub>min</sub>	 M			Accessories		Spare part		
						Slide hammer	Push puller	Spindle	Collet	Housing
<b>4305</b>	7	5	1/2" 20h	27	0,1	4390 - 4393	4392	430507	250005	-
<b>4308</b>	11	8	1/2" 20h	40	0,1	4390 - 4393	4392	430807	251005	-
<b>4312</b>	14	12	1/2" 20h	64	0,3	4390 - 4393	4392	431207	431205	431201
<b>4315</b>	19	15	1/2" 20h	64	0,3	4390 - 4393	4392	431507	431505	431201
<b>4320</b>	24	20	1/2" 20h	65	0,3	4390 - 4393	4392	432030	432005	431201
<b>4325</b>	29	25	1/2" 20h	65	0,4	4390 - 4393	4392	432030	432505	431201
<b>4330</b>	37	30	1/2" 20h	65	0,4	4390 - 4393	4392	432030	433005	431201
<b>4338</b>	45	38	1/2" 20h	65	0,6	4390 - 4393	4392	432030	433805	431201
<b>4347</b>	54	46	1/2" 20h	88	1,4	4390 - 4393	4392	434730	434705	434701
<b>4355</b>	64	55	1/2" 20h	89	1,6	4390 - 4393	4392	434730	435505	434701
<b>4365</b>	76	65	1/2" 20h	89	2,0	4390 - 4393	4392	434730	436505	434701





Collet type internal puller.

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

Made in CrVa steel.

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

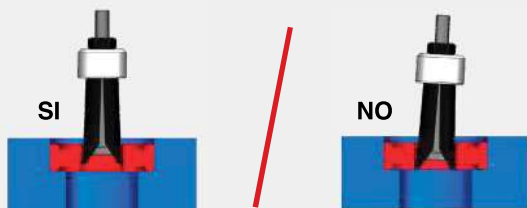


**Bullet points**

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

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

**ATTENTION WHEN INSERTING THE CLAMP**



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


**ATTENTION WITH THE SLIDE HAMMER**

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




**SPINDLES FOR COLLET SERIE 2500**



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


**SPINDLES FOR COLLET SERIE 4000**



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

**SPINDLES FOR COLLET SERIE 4300-4400**



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



## COLLETS FOR SERIE 2500



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

## COLLETS FOR SERIE 4000



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

## COLLETS FOR SERIE 4300



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


## COLLETS FOR SERIE 4400



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

**WRENCH FOR COLLETS 4400**




Ref.	Lenght	C (Distance between faces)	
<b>441220</b>	130	19	0,1
<b>444720</b>	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)	
<b>431250</b>	33	150	0,1
<b>434750</b>	45	170	0,2

**HOUSINGS**



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



INTERNAL AND EXTERNAL SERIE 4702

4702






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



**Bullet points**

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

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

PULLER WITH SLIDE HAMMER SERIE 4702

4702C






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



**Bullet points**

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

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

**INTERNAL AND EXTERNAL SERIE 4704**

**4704**

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

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






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

**Bullet points**

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



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

**SERIE 4704 PULLER WITH PUSH PULLER**

**4704C**



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

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




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

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

**Bullet points**

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



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





INTERNAL JAW PULLERS SERIE 4708

4708



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



**Bullet points**

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



Ref.	$\varnothing_{int}$	$\varnothing_{ext}$	A		Accessorie		
					Push puller	Spare part	
					Spindle	Jaw	
4708	300	130	315	10,3	1120	470813	180905



**RECOMENDATION**

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

INTERNAL JAW FOR PULLER 4702-4704



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


EXTERNAL JAW FOR PULLER 4704



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


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



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


**ADJUSTING SPINDLE 4702**



Ref.	R (Conection)	L (Length)	Ø	
<b>470213</b>	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	
<b>150622</b>	7/16" 14h	141	17	Hexagonal	Without point	0,1
<b>150603</b>	5/8" UNF 18h	268	20	Hexagonal	Fixed	0,5
<b>150922</b>	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	
<b>470413</b>	5/8" UNF 18h	107	32	Hexagonal	Without point	0,6
<b>470813</b>	1" 3/8 12h	201	36	Hexagonal	Without point	1,3



INTERNAL JAW PULLERS SERIE 1500

1500

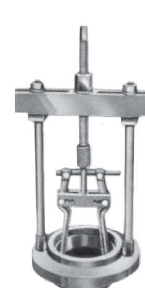


Internal puller.  
Can be mounted with push puller 1100.  
1506 and 1507 can be used with the slide hammer 4394 and 4396.



**Bullet points**

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



Clamping the knob by the spindle becomes 1500A

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

INTERNAL SERIE 1500A

1500A



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



**Bullet points**

- With position regulated spindle for adjusting the jaws.



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

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



**PUSH PULLER SERIE 2500**

**2500P**






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



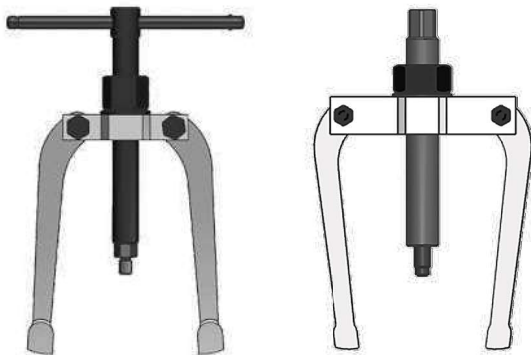
**Bullet points**

- Higher extraction force than the slide hammer.

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

**PUSH PULLER SERIE 4500**

**4500**






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



**Bullet points**

- Higher extraction force than the slide hammer.

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

**PUSH PULLER SERIE 4392**

**4392**




Push puller for the 4300 and 4400 serie internal collets.

**Bullet points**

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



Ref.	To	Height	Conection	Maximum opening	Jaw useful height	Bodi width		Spare parts	
								Jaw	Spindle
<b>4392</b>	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.



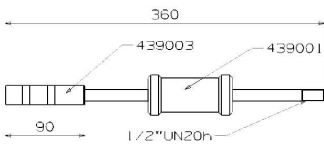
Bullet points

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

Ref.				Spare part		
	M	M	⚖️	Slide hammer	Female adaptor	Male adaptor
2524	M10 x 1,5	M16 x 2	1,6	4390	2525 2526	-
2534	M10 x 1.5	M16 x 2	3,5	4394	2525 2526	-
4590	M8 x 1,25	-	1,7	4390	-	4020

SLIDE HAMMER SERIE 4390 4390

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



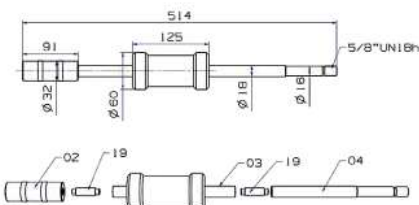
Bullet points

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

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

SLIDE HAMMER SERIE 4393 4393

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



Bullet points

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

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

**SLIDE HAMMER SERIE 4396**

**4396**

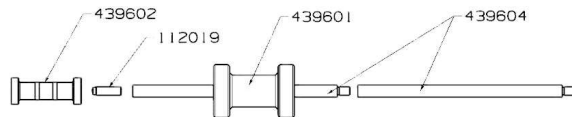





Slide hammer of 5 kg.  
A different thread on each side of the bar for mounting various accessories: 1/2" 20h UN and 5/8" 18h UN.



**Bullet points**

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



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





PNEUMATIC THREADED SPLIT PINS SET

4380

**iAlternative to slide hammer!**



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

Consists of cylinder, hose and the following adapters:


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

Ref.	Contains	Contains	⚖️	Spare parts
				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)	
<b>252105</b>	144	11	128	0,1
<b>252205</b>	178,5	12	154	0,2
<b>252305</b>	234,7	20	234	0,5

**COMPLETE SPINDLE FOR 4392**



Ref.	R (Thread)	L (Length)	C (Distance between faces)	
<b>439230</b>	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 continnes		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 continnes		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 continnes		Push puller	Slide hammer	Female adaptor
25-14	5	44	2500 a 2515A	6,0	2521A	4390	2525

**INTERNAL PULLER SET WITH PUSH PULLER**


**25-17**

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



**Bullet points**

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

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

**INTERNAL MECHANICAL PULLERS SET Ø6 to Ø37**

**40-1**


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



**Bullet points**

- Perfect for extractions without space underneath the workpiece.



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

**INTERNAL MECHANICAL PULLERS SET Ø6 to Ø62**

**40-2**

Set of 9 internal collets.  
With two puller systems: slide hammer 4390 and push puller 1110.  
Including 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 contains		Push puller	Slide hammer	Male adaptor
40-2	6	62	4000-4017	11,8	1110	4390	4020 4022 4023





## INTERNAL MECHANICAL PULLERS SET SERIE 43

43



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

**Bullet points**

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

Ref.	Ømin	Ømax	Slide hammer	Push puller	Collets that contains	
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 contains	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 &amp; EXTERNAL MECHANICAL PULLERS SET SERIE 4720

4720



Puller set for internal and external extractions.

The set includes:

- Three collets for internal extractions from 12 to 24mm diameter.
- Puller 4702 with two sets of very thin jaws for internal and external extractions. It can be mounted with 2 or 3 jaws.

470205 is the jaw for external extractions up to 75mm and internal extraction from 60 to 100 mm.

470215 is the jaw for internal extractions from 25 to 60mm.

A slide hammer 4390 (1kg) is included.

**Bullet points**

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

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

**2/3 JAWS INTERNAL ADJUSTABLE PULLER**

**7500I**




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



**Bullet points**

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

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

**2/3 JAWS INTERNAL+EXTERNAL AJUSTABLE PULLER**

**7504IC0**




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



**Bullet points**

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



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





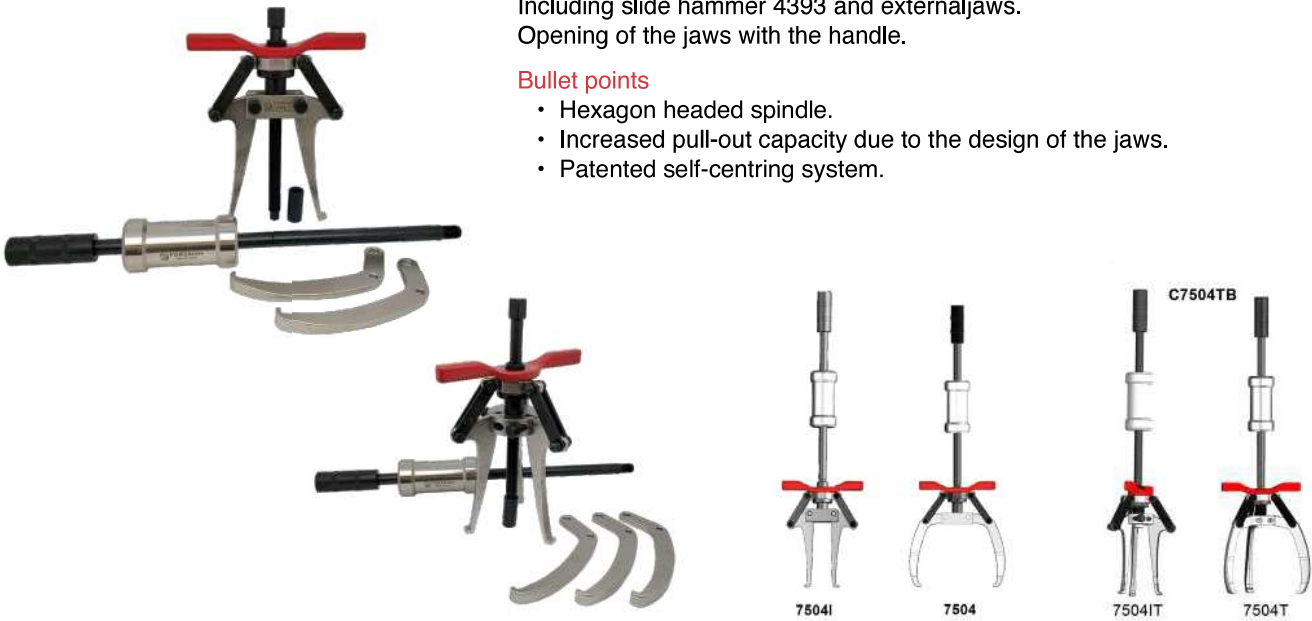
**INTERNAL AND EXTERNAL AJUSTABLE PULLER WITH SLIDE HAMMER C7504B0**

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



**Bullet points**

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



Ref.	Internal minimum diameter	Internal maximum diameter	A (Useful jaw height)	External minimum diameter	External maximum diameter	TON	Spare parts		
							Slide hammer	Jaws	
<b>C7504B</b>	25	155	143	30	186	4	4393	2 jaws	5,9
<b>C7504TB</b>	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)	
<b>750415</b>	174	13	7	143	0,4
<b>751015</b>	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	
<b>7504KI</b>	2	155	143	4	40	2 jaws to convert external	3,4

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

**7504KIT**




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



**Bullet points**

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

Ref.	Ømax	Ømin	TON	Jaw useful height	Jaw useful height	
<b>7504KIT</b>	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	
<b>C1102S</b>	1102S	1202A	100250	2,0
<b>C1103S</b>	1103S	1203A	100260	3,0
<b>C1110S</b>	1110S	1204B	101050	6,5
<b>C1115S</b>	1115S	1206B	101060	11,0



PULLER SET C1110SC WITH CASE

C1110SC

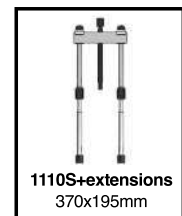
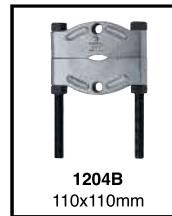


Pullers ,splitters and fixed jaws set .  
Supplied in plastic case.



Bullet points

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



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

PULLERS SET 1900K

1900K



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



Bullet points

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



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

THIN AND MULTIPLE JAWS PULLER SET 9075

90750



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



Bullet points

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



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



**PULLER SET WITH THREADED ADAPTERS**

**9080**



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



**Bullet points**

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



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

**PULLER SET 9084**

**9084**



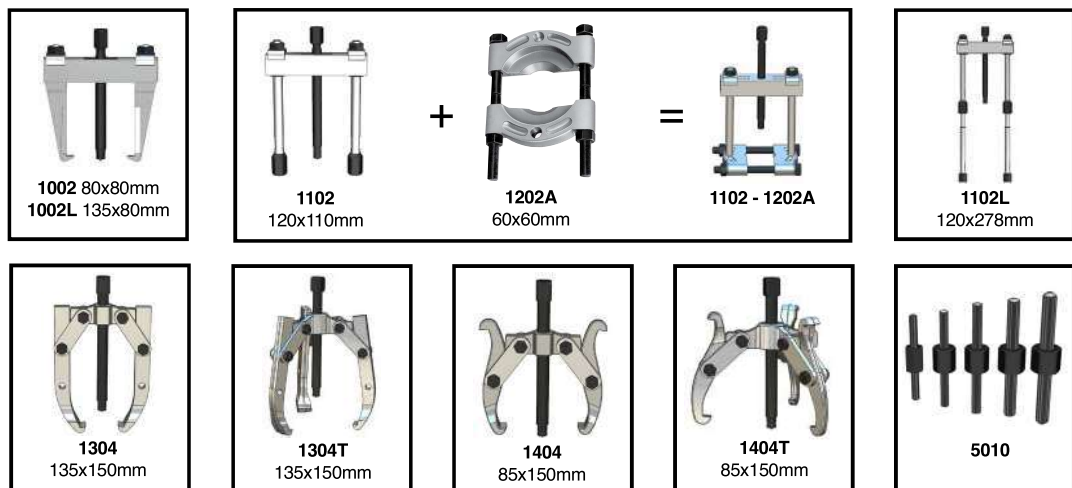
2 and 3 set of jaw pullers.  
Very useful for mobile maintenance services (SAT).



**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
<b>9084</b>	6,5	5010	1002 1304 1304T 1404 1404T	1102	1202A







PULLER SET 7TM 9087

9087



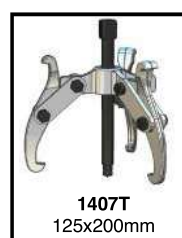
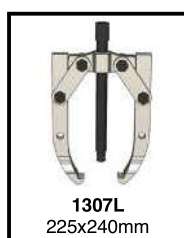
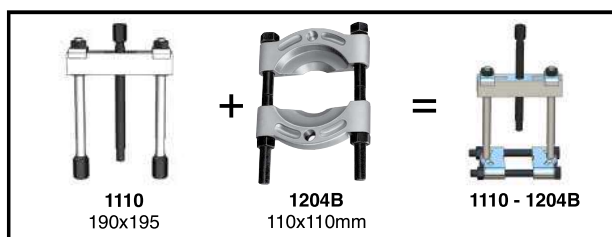
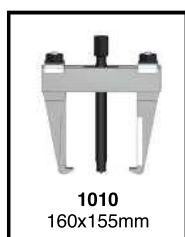
2 and 3 jaws puller set.  
Very useful for mobile maintenance services (SAT).



**Bullet points**

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

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



SMALL PULLERS SET

9300K



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



**Bullet points**

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

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




**THREADED SPLIT PINS EXTRACTOR M4-M10**

**1950**

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



Ref.	Threads		Adaptor
<b>1950</b>	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.

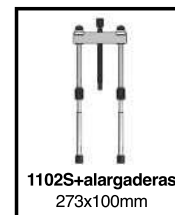
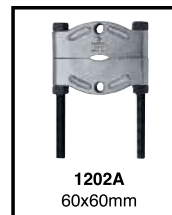
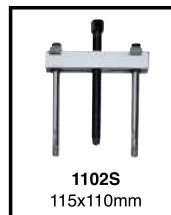



Ref.	Threads	Threads		Male adaptor
<b>1960</b>	M6 to M20	3/8" and 5/8"	3,0	1102306 - 1102308
				1102310 - 1110312
				1110314 - 1110316
				1110318 - 1110320
				196020 - 196021

**C1102SC PUSH PULLER AND SPLITTER SET + ACCESSORIES**

**C1102SC**

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



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



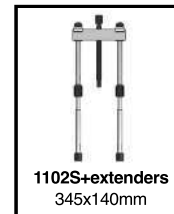
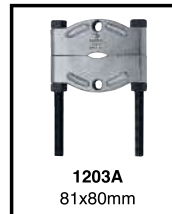


C1103SC PUSH PULLER AND SPLITTER SET + ACCESSORIES

C1103SC



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



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

MALE ADAPTOR



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

FEMALE ADAPTOR



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

**EXHIBITORS SERIE 1000N**

**1000N0**




2 fixed jaws puller exhibitor.

**Bullet points**

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



Ref.		Puller	Forniture
<b>1000A</b>	17,0	1002 - 1003L - 1010 - 1010L - 1015	96012
<b>1000B</b>	23,5	1002 - 1003L - 1010 - 1015 - 1020	96012
<b>1000N</b>	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
<b>1000AHX</b>	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
<b>2400A</b>	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
<b>9000A</b>	11,5	9002 - 9002L - 9002LA - 9010 - 9010LA	96012
<b>9000B</b>	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
<b>1300A</b>	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
<b>1400A</b>	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-centering 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
<b>7300A</b>	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
<b>7500A</b>	20,0	7502 - 7504 - 7507 - 7502T - 7504T	96750
<b>7500B</b>	21,0	7502 - 7504 - 7507 - 7501T - 7502T - 7504T	96750