



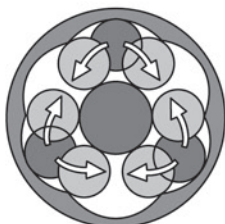
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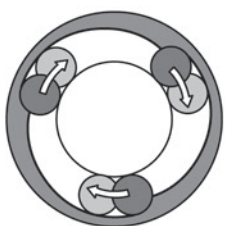


Extracción y apriete de espárragos

En los vasos el diseño hexagonal del cuerpo evita cargas excesivas en las celdas y rodillos internos del extractor.



El sistema de tres rodillos de las carracas protege a los espárragos de cualquier daño durante la aplicación.



Afloja tuercas Nut Twister



Los vasos NUT TWISTER están configurados para aflojar tuercas, pernos y espárragos redondeados por desgaste de forma fácil y eficaz.

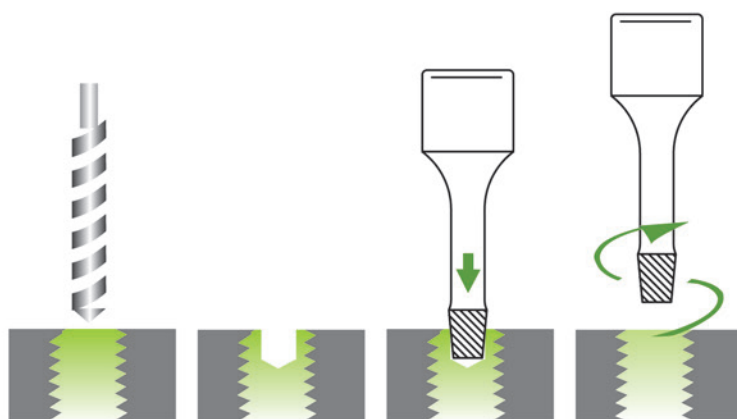
Las afiladas aristas de la boca del vaso aprietan firmemente contra la tuerca perno o espárrago, haciéndolo girar fácilmente.



Afloja pernos Bolt Twister

Un método fácil y eficaz para aflojar pernos rotos.

Una vez taladrado un agujero en el centro del perno roto se introduce el afloja pernos Bolt Twister presionando y habiéndolo girar. Gracias al diseño de las afiladas aristas espirales, se agarra firmemente el perno roto sacándolo con total facilidad.





Korken
Korken



Extractores de tornillos y espárragos.

■ 4100M ■ 4100A

mm	pulgadas	D	L		Ref Métrica	€	Ref Pulgadas	€
5		24	65	145	4100M5	22,73		
6	1/4	24	65	150	4100M6	22,73	4100A1/4	23,84
7		24	65	150	4100M7	22,73		
8	5/16	24	65	147	4100M8	22,73	4100A5/16	23,84
9		28	75	217	4100M9	24,55		
10	3/8	28	75	213	4100M10	24,55	4100A3/8	25,79
10,5		28	75	202	4100M105	24,55		
11	7/16	28	75	218	4100M11	24,55	4100A7/16	25,79
12		28	75	209	4100M12	24,55		
	1/2	28	75	191		24,55	4100A1/2	25,79
14	9/16	34	75	326	4100M14	25,91	4100A9/16	27,17
16	5/8	34	75	300	4100M16	29,31	4100A5/8	30,51



Patentado



 = 1/2" excepto medidas 16 mm y 5/8".



Juegos de extractores de tornillos y espárragos.

■ 4211M ■ 4211A

				€
4211M	220 x 85 x 45	4	1.040	91,56
4211A	220 x 85 x 45	4	1.040	101,27

	Extractor
4211M	4100M ○ 6, 8, 10, 12
4211A	4100A ○ 1/4, 5/16, 3/8, 1/2



 = 1/2"



Juego de extractores de tornillos y espárragos.

■ 4214M

				€
4214M	220 x 85 x 45	5	1.450	122,68

Extractor
4100M ○ 6, 8, 10, 12, 14



 = 1/2"



Extractores de tornillos y espárragos.

■ 6100M

mm	D	L		Ref	€
18	48	100	840	6100M18	161,57
20	48	100	816	6100M20	161,57
22	48	100	745	6100M22	186,16
24	48	100	739	6100M24	186,16
27	63	125	1.707	6100M27	231,98
28	63	125	1.701	6100M28	231,98
29	63	125	1.696	6100M29	231,98
30	63	125	1.691	6100M30	231,98



 = 3/4" para medidas 18 mm y 20 mm.

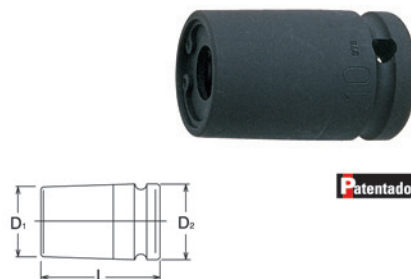


Extractores de tornillos y espárragos de impacto.

■ 14100M ■ 14100A

mm	pulgadas	D	L		Ref Métrica	€	Ref Pulgadas	€
6		24	25	48	14100M6	28,09		
	1/4	24	25	48			14100A1/4	29,55
7		24	25	48	14100M7	28,09		
8	5/16	24	25	48	14100M8	28,09	14100A5/16	29,55
9		28	30	48	14100M9	27,31		
	3/8	28	30	48			14100A3/8	30,97
10		28	30	48	14100M10	29,54		
	7/16	28	30	48			14100A7/16	30,97
12		28	30	48	14100M12	29,54		
	1/2	28	30	48			14100A1/2	30,97

□ = 1/2"



Extractores de espárragos de carraca.

■ 141S

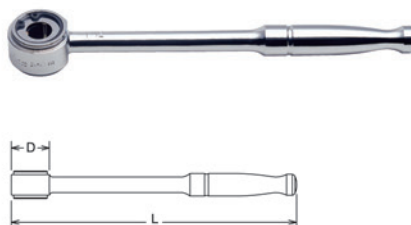
mm	D	L		Ref	€
6	28	150	210	141S6	51,82
8	28	150	210	141S8	51,82
10	32	153	229	141S10	52,77
12	32	152	227	141S12	52,77



Extractores de espárragos de carraca.

■ 141P

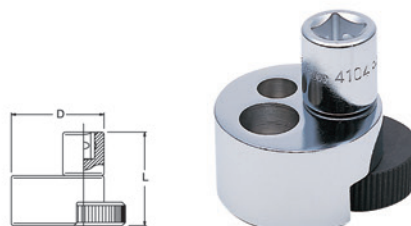
mm	D	L		Ref	€
6	28	150	210	141P6	54,41
8	28	150	210	141P8	54,41
10	32	153	229	141P10	55,31
12	32	152	227	141P12	55,31



Extractor de tornillos y espárragos.

■ 4104

Ref	□	Tolerancia		L		€
		min.	máx.			
4104	1/2	ø 6	ø 19	56	489	87,76

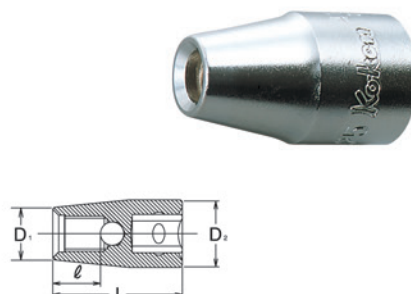


Vasos para apretar pernos.

■ 4103M

mm	D1	D2	ℓ	L		Ref	€
6 (1,0)	10,3	22	10	37	77	4103M6X1	15,73
8 (1,25)	13,2	22	11,5	37	88	4103M8X125	15,73
10 (1,25)	15,3	23	13,5	44	102	4103M10X125	18,13
10 (1,5)	15,3	23	13,5	44	102	4103M10X15	18,13
12 (1,25)	17,8	23	15,5	44	105	4103M12X125	18,13
12 (1,75)	17,8	23	15,5	44	105	4103M12X175	18,13

□ = 1/2"





Juego de vasos para apretar pernos.

4203M

				€
4203M	130 x 65 x 26	4	530	69,91

Vasos

4103M ○ 6 (1,0), 8 (1,25), 10 (1,5), 12 (1,75)

 = 1/2"

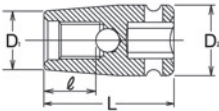


Vasos para apretar pernos de impacto.

13103M

mm	D ₁	D ₂	ℓ	L		Ref	€
5 (0,8)	9,5	19	9	32	50	13103M5x08	12,54
6 (1,0)	10,8	19	10	32	54	13103M6x1	12,54
8 (1,25)	13,5	19	10,5	35	58	13103M8x125	12,54
10 (1,25)	15,8	19	13,5	35	65	13103M10x125	12,54
10 (1,5)	15,8	19	13,5	35	65	13103M10x15	12,54

 = 3/8"

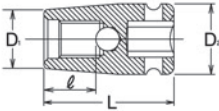


Vasos para apretar pernos de impacto.

14103M

mm	D ₁	D ₂	ℓ	L		Ref	€
6 (1,0)	12	25	10	38	108	14103M6x1	12,54
8 (1,25)	14,5	25	11,5	38	116	14103M8x125	12,54
10 (1,25)	17	25	13,5	44	150	14103M10x125	15,20
10 (1,5)	17	25	13,5	44	150	14103M10x15	15,20
12 (1,25)	19,5	25	15,5	44	147	14103M12x125	15,20
12 (1,75)	19,5	25	15,5	44	147	14103M12x175	15,20

 = 1/2"

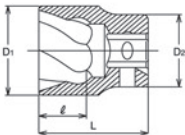




Afloja tuercas.

■ 3127

mm	D ₁	D ₂	ℓ	L		Ref	€
8	13	19	8	32	40	31278	34,96
9	14,5	19	8	32	40	31279	34,96
10	15,8	19	10	32	41	312710	34,96
11	17,2	19	10	32	43	312711	34,96
12	18,5	19	12	32	44	312712	34,96
13	19,7	19	12	32	46	312713	36,60
14	21	19	14	32	48	312714	36,60
15	22,5	19	14	32	52	312715	36,60
16	23,9	22	14	32	66	312716	39,97
17	25,8	22	16	35	80	312717	39,97
19	28,4	22	16	35	92	312719	39,97



□ = 3/8"



Juego de vasos en regleta.

■ RS3127/8

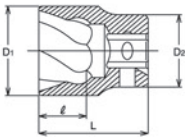
Ref					€
○ 3127	200	420	8	8, 9, 10, 11, 12, 13, 14, 16	288,03



Afloja tuercas.

■ 4127

mm	D ₁	D ₂	ℓ	L		Ref	€
14	21	30	14	42	125	412714	47,04
17	25,8	30	16	42	137	412717	47,04
19	28,4	30	16	42	146	412719	47,04
21	31	30	17	42	153	412721	47,04
22	32	30	17	42	158	412722	47,04
24	35	30	18	42	174	412724	47,04
25,4	36,5	30	18	42	183	412725	47,04



□ = 1/2"



Juego de vasos en regleta.

■ RS4127/6

Ref					€
○ 4127	200	960	6	17, 19, 21, 22, 24, 25,4	282,38

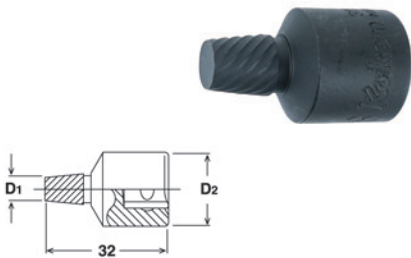


Afloja pernos.

■ 3129-32

mm	D ₁	D ₂		Ref	€
2	2	19	32	3129-322	10,84
3	3	19	33	3129-323	10,84
4	4	19	33	3129-324	10,84
6	6	19	35	3129-326	10,84
8	8	19	37	3129-328	10,84
10	10	19	40	3129-3210	10,84

 = 3/8"



Juego de vasos en regleta.

■ RS3129/6-L32

Vasos					€
3129-32	150	250	6	2, 3, 4, 6, 8, 10	65,08

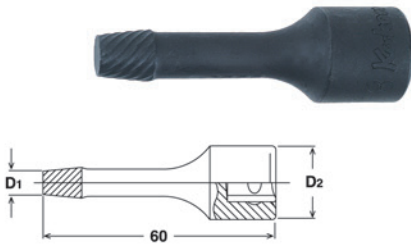


Afloja pernos.

■ 3129-60

mm	D ₁	D ₂		Ref	€
2	2	19	38	3129-602	11,63
3	3	19	42	3129-603	11,63
4	4	19	44	3129-604	11,63
6	6	19	47	3129-606	11,63
8	8	19	53	3129-608	11,63
10	10	19	64	3129-6010	11,63

 = 3/8"



Juego de vasos en regleta.

■ RS3129/6-L60

Vasos					€
3129-60	150	320	6	2, 3, 4, 6, 8, 10	69,82

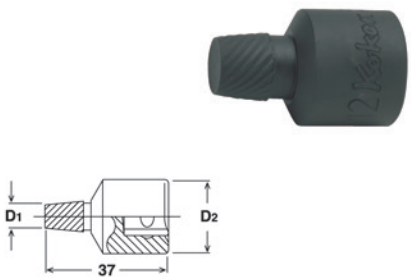


Afloja pernos.

■ 4129-37

mm	D ₁	D ₂		Ref	€
8	8	24	59	4129-378	12,10
10	10	24	63	4129-3710	12,10
12	12	24	67	4129-3712	12,10
14	14	24	72	4129-3714	12,10
16	16	24	78	4129-3716	14,98

 = 1/2"



Juego de vasos en regleta.

■ RS4129/5-L37

Vasos					€
4129-37	150	370	5	8, 10, 12, 14, 16	62,47

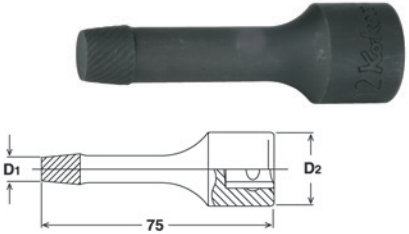


Afloja pernos.

■ 4129-75

mm	D ₁	D ₂		Ref	€
8	8	24	80	4129-758	13,33
10	10	24	94	4129-7510	13,33
12	12	24	110	4129-7512	13,33
14	14	24	130	4129-7514	13,33
16	16	24	150	4129-7516	17,87

= 1/2"



Juego de vasos en regleta.

■ RS4129/5-L75

Vasos					€
4129-75	150	600	5	8, 10, 12, 14, 16	71,23



Diámetros afloja pernos.

Afloja Pernos	2	3	4	6	8	10	12	14	16
Diámetro perno (mm)	M5	M6	M	M10 - M12	M14 - M16	M18 - M20	M22 - M24	M27 - M30	M33
Diámetro taladro (mm)	2,4 - 2,6	3,2 - 3,5	4,2 - 4,5	6,2 - 6,5	8,2 - 8,5	10,2 - 10,5	12,2 - 12,5	14,2 - 14,5	16,2 - 16,5

 Sin palanca de inversión.

■ 102NM ■ 102NA

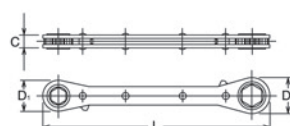
mm	pulgadas	L	D ₁	D ₂	C		Ref Métrica	€	Ref Pulgadas	€
	7/32 x 1/4	108	15,3	16,4	7,5	60			102NA7/32x1/4	24,47
6 x 7	1/4 x 9/32	108	15,3	16,4	7,5	60	102NM6x7	23,20	102NA1/4x9/32	24,47
7 x 8	1/4 x 5/16	108	15,3	16,4	7,5	60	102NM7x8	23,20	102NA1/4x5/16	25,05
8 x 9	5/16 x 11/32	134	17,1	19,7	7,5	80	102NM8x9	24,47	102NA5/16x11/32	25,70
8 x 10	5/16 x 3/8	134	17,1	19,7	7,5	80	102NM8x10	24,47	102NA5/16x3/8	25,70
10 x 11	3/8 x 7/16	140	20,1	22,7	7,5	87	102NM10x11	24,47	102NA3/8x7/16	25,70
10 x 12		140	20,1	22,7	7,5	87	102NM10x12	26,94		
12 x 13	7/16 x 1/2	145	23,6	24,6	9	112	102NM12x13	26,94	102NA7/16x1/2	28,87
12 x 14	1/2 x 9/16	145	23,6	24,6	9	112	102NM12x14	27,37	102NA1/2x9/16	28,87



 Reversible

■ 102KM ■ 102KA

mm	pulgadas	L	D ₁	D ₂	C		Ref Métrica	€	Ref Pulgadas	€
	7/32 x 1/4	108	15,3	16,4	7,5	51			102KA7/32x1/4	20,57
6 x 7	1/4 x 9/32	108	15,3	16,4	7,5	51	102KM6x7	19,52	102KA1/4x9/32	22,11
7 x 8	1/4 x 5/16	108	15,3	16,4	7,5	51	102KM7x8	20,57	102KA1/4x5/16	21,75
8 x 9	5/16 x 11/32	134	17	20	9	76	102KM8x9	20,57	102KA5/16x11/32	23,24
8 x 10	5/16 x 3/8	134	17	20	9	76	102KM8x10	20,57	102KA5/16x3/8	23,24
10 x 11	3/8 x 7/16	141	21	23,5	9	84	102KM10x11	20,57	102KA3/8x7/16	21,75
10 x 12		141	21	23,5	9	84	102KM10x12			
12 x 13	7/16 x 1/2	146	24	25	9	89	102KM12x13	22,66	102KA7/16x1/2	25,58
12 x 14	1/2 x 9/16	146	24	25	9	89	102KM12x14	23,20	102KA1/2x9/16	24,34
13 x 17		200	27,1	31,8	16	190	102KM13x17	43,30		
14 x 17		200	27,1	31,8	16	200	102KM14x17	43,30		



 Llaves planas con carraca en caja de plástico.

■ 102KM/5

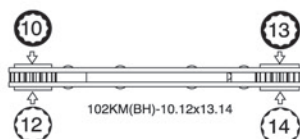
Llaves				€
102KM	399	5	6x7, 8x9, 10x11, 12x13, 12x14	107,78



 Con bocas gemelas (dos en uno).

■ 102KM-BH

mm	L	D ₁	D ₂	C		Ref	€
5,5-6 x 7-8	108	15,3	16,4	10	60	102KMBH5,56x78	46,04
8-10 x 12-13	141	21	23,5	13	87	102KMBH810x1213	46,04
9-10 x 11-12	141	21	23,5	13	87	102KMBH910x1112	46,04
10-12 x 13-14	146	24	25	13	98	102KMBH1012x1314	45,22
13-14 x 15-17	200	27,1	31,8	16	200	102KMBH1314x1517	45,22



 Reversible TORX®.

■ 102KT

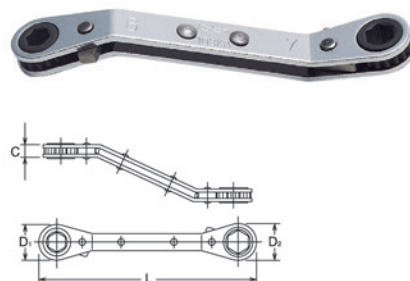
TORX®	L	D ₁	D ₂	C		Ref	€
E4 x E6	108	15,3	16,4	7,5	51	102KTE4xE6	22,25
E6 x E8	108	15,3	16,4	7,5	51	102KTE6xE8	22,25
E10 x E12	134	17	20	9	76	102KTE10xE12	22,25



Reversible.

103KM 103KA

mm	pulgadas	L	D ₁	D ₂	C		Ref Métrica	€	Ref Pulgadas	€
	7/32 x 1/4	103	15,3	16,4	7,5	51			103KA7/32x1/4	22,96
6 x 7	1/4 x 9/32	103	15,3	16,4	7,5	51	103KM6x7	20,03	103KA1/4x9/32	22,96
7 x 8	1/4 x 5/16	103	15,3	16,4	7,5	51	103KM7x8	20,03	103KA1/4x5/16	21,46
8 x 9	5/16 x 11/32	128	17	20	9	76	103KM8x9	20,57	103KA5/16x11/32	22,25
8 x 10	5/16 x 3/8	128	17	20	9	76	103KM8x10	21,18	103KA5/16x3/8	23,81
10 x 11	3/8 x 7/16	134	21	23,5	9	84	103KM10x11	21,18	103KA3/8x7/16	22,25
10 x 12		134	21	23,5	9	84	103KM10x12	22,92		
12 x 13	7/16 x 1/2	139	24	25	9	89	103KM12x13	22,92	103KA7/16x1/2	26,59
12 x 14	1/2 x 9/16	139	24	25	9	89	103KM12x14	23,95	103KA1/2x9/16	25,27



Llaves planas con carraca en caja de plástico.

103KM/5

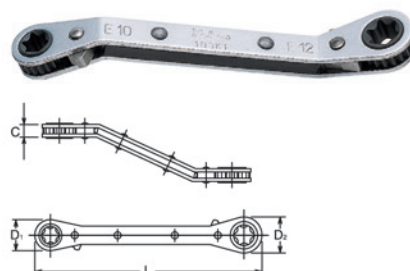
Llaves				€
103KM	399	5	6x7, 8x9, 10x11, 12x13, 12x14	108,95



Reversible TORX®.

103KT

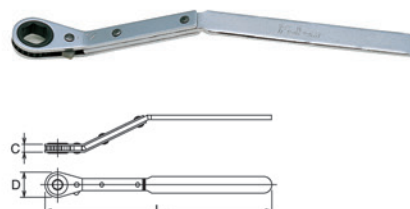
TORX®	L	D ₁	D ₂	C		Ref	€
E4 x E6	104	15,3	16,4	7,5	51	103KTE4xE6	22,25
E6 x E8	104	15,3	16,4	7,5	51	103KTE6xE8	22,25
E10 x E12	128	17	20	9	76	103KTE10xE12	22,25
E14 x E16	139	24	25	9	89	103KTE14xE16	26,83



Para calentadores.

144KM

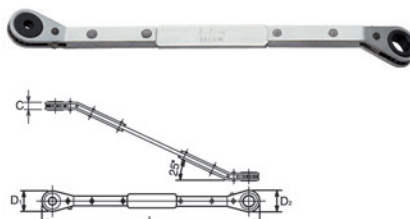
mm	L	D	C		Ref	€
8	200	22,7	7,5	95	144KM8	24,41
12	200	22,7	7,5	102	144KM12	30,10



Para calentadores.

148KM

mm	L	D ₁	D ₂	C		Ref	€
8S x 12	245	23,6	24,6	9	187	148KM8Sx12	51,04

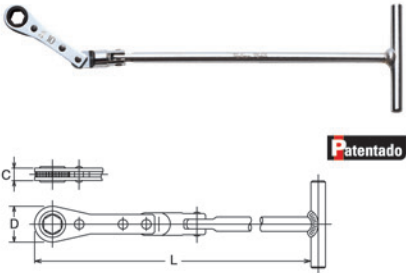




Llaves de carraca de empuje y tracción.

■ 154M

mm	L	D	C		Ref	€
8	294	17,1	7,5	178	154M8	56,28
10	297	20,1	7,5	183	154M10	52,49
12	300	23,6	9	189	154M12	57,32
13	301	24,6	9	194	154M13	65,91
14	301	24,6	9	194	154M14	65,91



Llaves de carraca de empuje y tracción.

■ 154ML

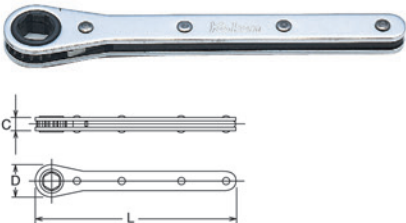
mm	L	D	C		Ref	€
10	297	20,1	7,5	230	154ML10	78,47
12	300	23,6	9	252	154ML12	79,60



Reversible, 10 mm hexagonal.

■ 145KM-10H

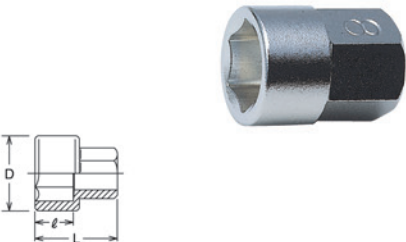
mm	L	D	C		Ref	€
10	125	20,1	7,5	72	145KM10H	16,48



Vasos con conductor hexagonal 10 mm.

■ 150-10H

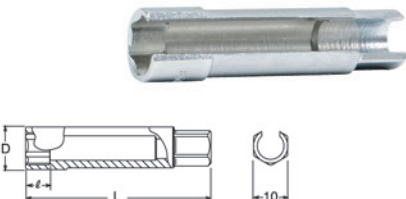
mm	D	ℓ	L		Ref	€
5	12	3,5	11	6	15010H5	12,71
6	12	4,5	12,5	7	15010H6	12,71
7	12	5	14	7	15010H7	12,71
8	12	6	15,5	7	15010H8	12,71
9	13	6	16	7	15010H9	12,71
10	14,3	7	17	9	15010H10	12,71



Llave de calentador.

■ 178-10H

mm	D	ℓ	L		Ref	€
9	13	11	50	16	178-10H9	27,24

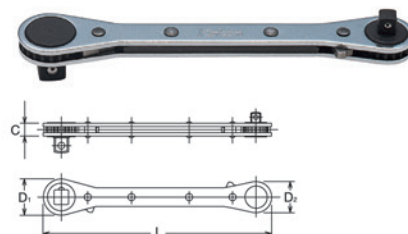


■ Para vasos con conductor cuadrado de 1/4" y 3/8".

■ 137

L	D ₁	D ₂	C		Ref	€
141	23,5	21	9	104	137	27,11

■ 1/4" 3/8"

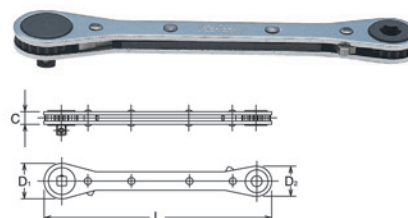


■ Para puntas 101.

■ 138

L	D ₁	D ₂	C		Ref	€
141	23,5	21	9	97	138	24,47

■ 1/4" ○ 1/4"

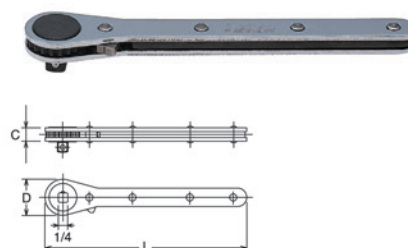


■ Para vasos con conductor cuadrado de 1/4".

■ 139

L	D	C		Ref	€
125	20,1	7,5	80	139	16,86

■ 1/4"

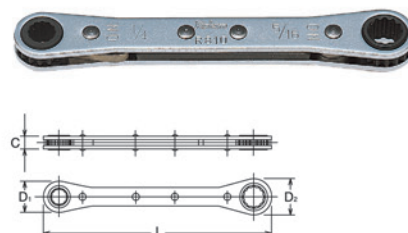


○ Bocas bihexagonales.

■ R810

pulgadas	L	D ₁	D ₂	C		Ref	€
1/4x5/16	108	15,3	16,4	7,5	60	R81014/516	20,21
3/8x7/16	140	20,1	22,7	7,5	87	R81038/716	22,92
1/2x9/16	145	23,6	24,6	9	112	R81012/916	25,67

○ 1/4" 5/16" para puntas 101 y 128



⊕ Puntas Phillips.

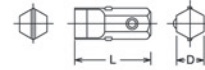
■ 101P

PH	D	L		Ref	€
PH1	6,35 (1/4")	20,5	3	101PH1	4,74
PH2	6,35 (1/4")	20,5	4	101PH2	4,74
PH3	6,35 (1/4")	20,5	4,5	101PH3	4,74

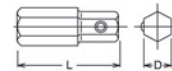


**Puntas rectas/planas.****101S**

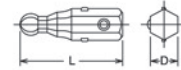
mm	D	L		Ref	€
1,0x7	6,35 (1/4")	15	3	101S1x7	5,75
1,2x7	6,35 (1/4")	15	3	101S12x7	5,75

**Puntas hexagonales.****101H**

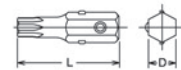
mm	D	L		Ref	€
3	6,35 (1/4")	20,5	4,5	101H3	5,89
4	6,35 (1/4")	20,5	4,5	101H4	5,89
5	6,35 (1/4")	20,5	5	101H5	5,89
6	6,35 (1/4")	20,5	5	101H6	5,89
7	6,35 (1/4")	20,5	6	101H7	5,89
8	6,35 (1/4")	20,5	7	101H8	5,89

**Puntas hexagonales con bola.****101B**

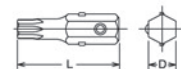
mm	D	L		Ref	€
3	6,35(1/4")	25	4	101B3	6,27
4	6,35(1/4")	25	4	101B4	6,27
5	6,35(1/4")	25	5	101B5	6,27
6	6,35(1/4")	25	5	101B6	6,27

**Puntas TORX®.****101T (T)**

TORX®	D	L		Ref	€
T9	6,35 (1/4")	25	4	101-25T9	6,69
T10	6,35 (1/4")	25	4	101-25T10	6,69
T15	6,35 (1/4")	25	4,5	101-25T15	6,69
T20	6,35 (1/4")	25	4,5	101-25T20	6,69
T25	6,35 (1/4")	25	5	101-25T25	6,69
T27	6,35 (1/4")	25	5,5	101-25T27	6,69
T30	6,35 (1/4")	25	6	101-25T30	6,69

**Puntas TORX® indeformables.****101T (TH)**

TH	D	L		Ref	€
T10H	6,35 (1/4")	25	4	101-25TH10	7,47
T15H	6,35 (1/4")	25	4	101-25TH15	7,47
T20H	6,35 (1/4")	25	4,5	101-25TH20	7,47
T25H	6,35 (1/4")	25	5	101-25TH25	7,47
T27H	6,35 (1/4")	25	5,5	101-25TH27	7,47
T30H	6,35 (1/4")	25	6	101-25TH30	7,47

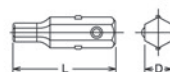




Puntas hexagonales.

128H

mm	D	L		Ref	€
3	8 (5/16")	32	11	128H3	6,04
4	8 (5/16")	32	11	128H4	6,04
5	8 (5/16")	32	11,5	128H5	6,04
6	8 (5/16")	32	12	128H6	6,04
8	8 (5/16")	32	13	128H8	6,04



Puntas TORX®.

128T

TORX®	D	L		Ref	€
T10	8 (5/16")	32	9	128T10	7,48
T15	8 (5/16")	32	9	128T15	7,48
T20	8 (5/16")	32	9	128T20	7,48
T25	8 (5/16")	32	10	128T25	7,48
T27	8 (5/16")	32	10	128T27	7,48
T30	8 (5/16")	32	11	128T30	7,48



Adaptador.

101A

S	D	L		Ref	€
6,35 (1/4")	8 (5/16")	20	8	101A	5,00



Juego de puntas.

1202

				€
1202	190 x 60 x 30	15	420	120,11

Puntas

- 101P 1, 2, 3
- 101S 1 x 7
- 101B 3, 4, 5, 6
- 101T T10, T15, T20, T25, T27, T30

Accesorios

138



Juego de puntas.

R810A

				€
R810A	130 x 65 x 20	5	208	49,02

Puntas

- 101P 1, 2, 3
- 101S 1 x 7

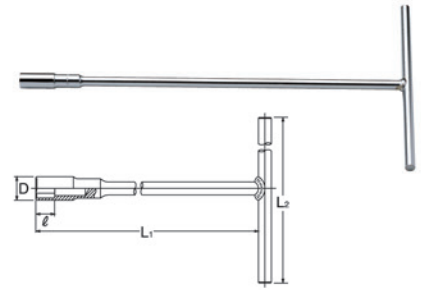
Accesorios

102NA-1/4 x 5/16

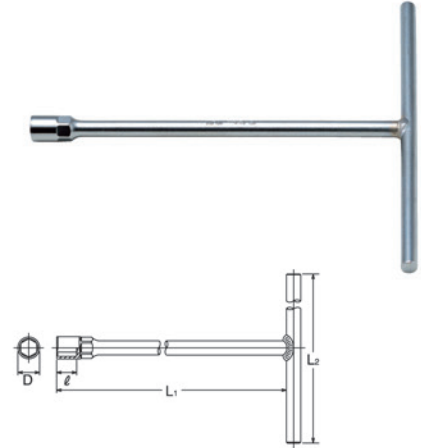


**Llave en T hexagonal larga.****156M**

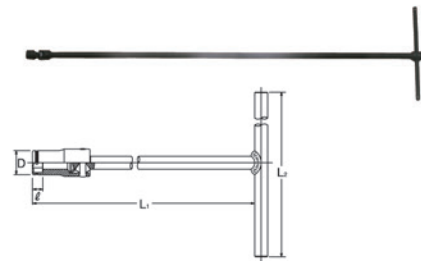
mm	D	ℓ	L ₁	L ₂		Ref	€
8	12	9	355	200	231	156M8	25,48
10	14,5	11	355	200	289	156M10	28,21
12	16,8	13	355	200	429	156M12	29,32
14	20	16	355	200	454	156M14	30,47

**Llave en T hexagonal.****104ME**

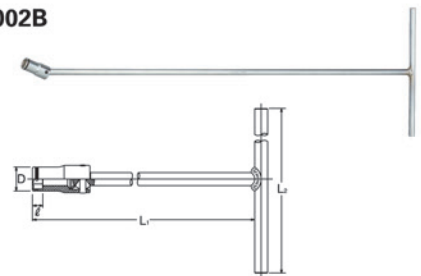
mm	D	ℓ	L ₁	L ₂		Ref	€
6	9,5	8	200	180	150	104ME6	13,53
7	11	9	200	180	152	104ME7	13,53
8	12	10	250	200	183	104ME8	13,53
9	14	12	250	200	188	104ME9	13,53
10	14	13	250	200	230	104ME10	13,53
11	16	14	250	200	234	104ME11	13,53
12	18	15	250	200	384	104ME12	14,73
13	18,5	17	250	250	412	104ME13	14,73
14	20	18	250	250	428	104ME14	14,73
15	21	19	250	250	728	104ME15	14,73
16	22,5	21	250	250	528	104ME16	19,97
17	24	22	250	250	707	104ME17	19,97
18	25	23	250	250	707	104ME18	21,44
19	26,5	25	250	250	717	104ME19	22,11

**Llave en T con articulación universal con vaso hexagonal.****3116M**

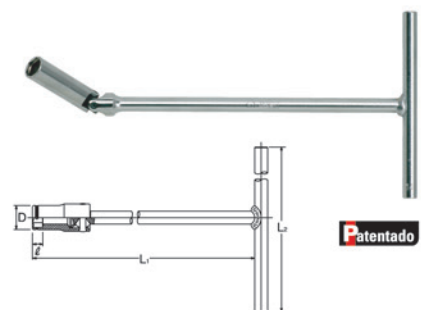
mm	D	ℓ	L ₁		Ref	€
10	14,5	7	800	796	3116M10	65,77
13	18	9	800	797	3116M13	68,45
15	21	11	800	799	3116M15	68,45
16	22	11	800	806	3116M16	68,45
17	23,6	11	800	801	3116M17	68,45
18	24	13	800	809	3116M18	68,45

**Llave en T con articulación de rótula y vaso sujeta tuerca.****124M-6002B**

mm	D	ℓ	L ₁		Ref	€
8	12	5	600	332	124M-6002B8	51,64
10	14,5	6	600	334	124M-6002B10	51,64
12	16,8	7	600	424	124M-6002B12	52,06
13	18	8	600	425	124M-6002B13	55,93
14	19,5	8,5	600	527	124M-6002B14	55,93
17	23,3	9,5	600	538	124M-6002B17	57,05

**Llave de bujías en T con articulación universal.****127C**

mm	D	ℓ	L ₁	L ₂		Ref	€
14	19	21,5	315	150	520	127C-31514	50,81
16	21	22,5	315	150	530	127C-31516	50,81
18	23,9	22,5	315	150	590	127C-31518	50,81
20,8	26,8	22,5	315	150	590	127C-31520,8	52,56

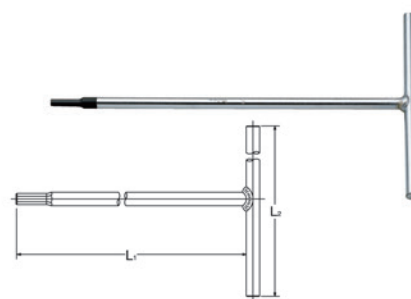
**Patentado**



Llave en T para tornillos de seis lados en el interior (Inhex).

157HE

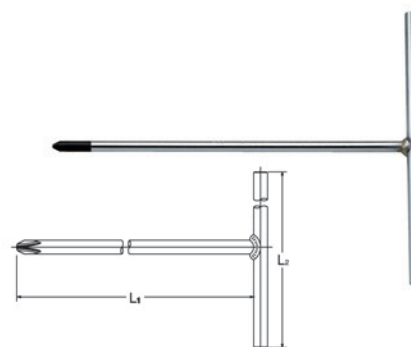
mm	L ₁	L ₂		Ref	€
3	250	180	98	157HE3	17,73
4	250	180	121	157HE4	18,85
5	250	180	158	157HE5	21,09
6	250	180	416	157HE6	25,48
8	250	180	422	157HE8	25,48
10	300	180	428	157HE10	25,48



Llave en T para tornillos Phillips.

157PE

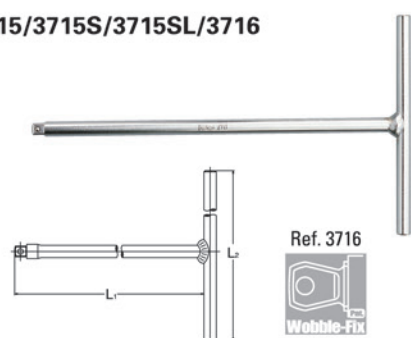
PH	L ₁	L ₂		Ref	€
PH2	250	180	84	157PE2	23,84
PH3	250	180	189	157PE3	23,84



Llave en T.

2715/3715/3715S/3715SL/3716

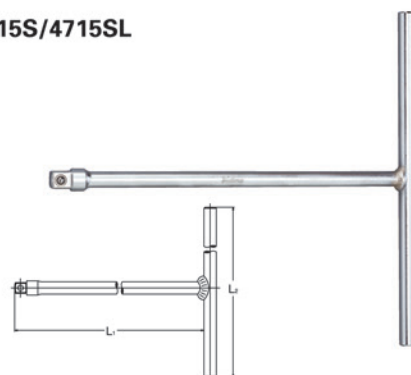
	L ₂	L ₁		Ref	€
1/4"	200	120	130	2715	14,60
3/8"	268	240	378	3715	18,24
3/8"	268	190	350	3715S	18,24
3/8"	237	200	325	3715SL	23,93
3/8"	268	240	379	3716	26,34



Llave en T.

4715/4715S/4715SL

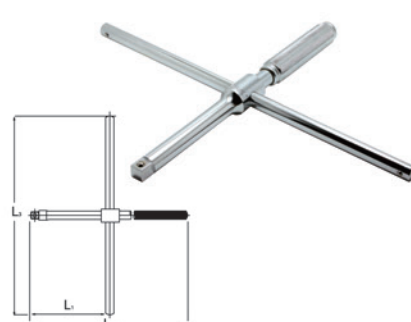
	L ₁	L ₂		Ref	€
1/2"	267	255	475	4715	18,24
1/2"	267	170	402	4715S	18,24
1/2"	250	250	640	4715SL	28,84



Llave en T.

4711X

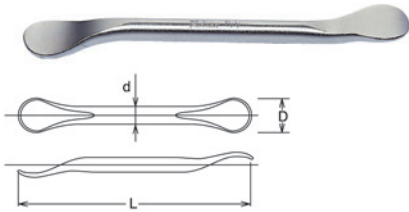
	L ₁	L ₂	L ₃		Ref	€
1/2"	140	280	350	945	4711X	56,78



Llave de neumáticos.

■ 155

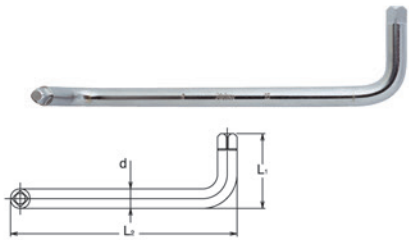
Ref	D	d	L	€
155	22	10	170	17,29



 Para lubricación.

■ 158

mm	L ₁	L ₂	d		€
8S x 10S	63	230	84	319	21,33z



Mango tipo destornillador.

■ 2769N-150/-220

Ref	L		€
2769N-150	150	68	10,88
2769N-220	220	100	11,84

 = 1/4"



Patentado

Mango tipo destornillador.

■ 3769N-160/-230

Ref	L		€
3769NWF-160	160	96	13,59
3769NWF-230	230	126	14,86

 = 3/8"



Patentado

Herramienta de palanca (interior vehículos).

■ 169

mm	ℓ	L		Ref	€
6	115	215	80	169-6	17,49
10	120	230	110	169-10	18,74



Juego de herramientas de palanca (interior vehículos).

■ 169/2

Ref			€
169/2	2	200	36,23

Accesorios

169-6, -10

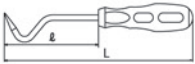




Extractor de mangueras.

■ 169HR

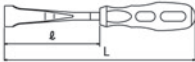
HR	ℓ	L		€
A	100	200	75	12,78



Extractor de burletes de ventana.

■ 169WM

Ref	ℓ	L		€
169WM	100	210	90	31,62



Destornillador de impacto.

■ 4112G

Ref	L		€
4112G	163	810	37,70

 = 1/2"



Patentado

Juego de destornilladores de impacto.

■ AG112A

				€
AG112A	215 x 80 x 60	6	1.150	60,82

Puntas

100P-32  PH2, PH3
100S-32  9, 11

Accesorios

4112G 
4138 



Juego de destornilladores de impacto.

■ AG112H

				€
AG112H	215 x 80 x 60	18	1.480	104,03

Puntas

100P-32  PH2, PH3, PH4
100S-32  8, 9, 10, 12, 14
100H-32  5, 6, 8, 10
100T-32  T30, T40, T45, T50

Accesorios

4112G 
4138 



Juego de destornilladores de impacto.

■ AN112A

				€
AN112A	190 x 59 x 45	6	1.070	58,73

Puntas

100P-32  PH2, PH3
100S-32  9, 11

Accesorios

4112N 
4138 





Llave de carraca reversible para puntas de 1/4".

2774P-1/4HF

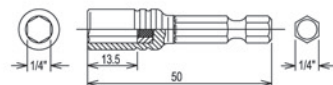
Ref	L		€
2774P-1/4HF	165	133	82,87



Porta punta con imán.

180M-50

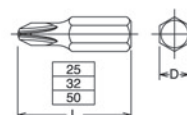
Ref	L	€
180M-50	50	6,75



Puntas Phillips.

108P-25/ -32/ -50

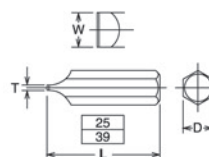
PH	D				Ref L-25	€	Ref L-32	€	Ref L-50	€
		25	32	50						
PH1	6,35 (1/4")	5	7	10	108P-251	1,63	108P-321	1,74	108P-501	2,34
PH2	6,35 (1/4")	5	7	11	108P-252	1,63	108P-322	1,74	108P-502	2,34
PH3	6,35 (1/4")	6	8	11	108P-253	1,63	108P-323	1,74	108P-503	2,34



Puntas rectas/planas.

108S-25/ -39

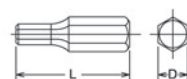
mm	TxW	D			Ref L-25	€	Ref L-39	€
			25	39				
3	0,5 x 3	6,35 (1/4")	3	6	108S-253	2,99	108S-393	3,81
4	0,6 x 4	6,35 (1/4")	3	6	108S-254	2,99	108S-394	3,81
4,5	0,6 x 4,5	6,35 (1/4")	4	6	108S-2545	2,99	108S-3945	3,81
5	0,8 x 5	6,35 (1/4")	5	7	108S-255	2,99	108S-395	3,81
5,5	0,8 x 5,5	6,35 (1/4")	5	8	108S-2555	2,99	108S-3955	3,81
6	1 x 6	6,35 (1/4")	5	9	108S-256	2,99	108S-396	3,81
8	1,2 x 8	6,35 (1/4")	6	12	108S-258	4,22	108S-398	4,19



Puntas hexagonales.

108H-25

mm	D	L		Ref	€
3	6,35 (1/4")	25	4	108H-253	2,89
4	6,35 (1/4")	25	5	108H-254	2,89
5	6,35 (1/4")	25	5	108H-255	2,89
6	6,35 (1/4")	25	6	108H-256	2,89
7	6,35 (1/4")	25	7	108H-257	2,89
8	6,35 (1/4")	25	8	108H-258	3,03
10	6,35 (1/4")	25	11	108H-2510	3,40





Puntas TORX®.

■ 108T-25

TORX®	D	L		Ref	€
T10	6,35 (1/4")	25	4	108T-2510	4,97
T15	6,35 (1/4")	25	4	108T-2515	4,97
T20	6,35 (1/4")	25	5	108T-2520	4,97
T25	6,35 (1/4")	25	6	108T-2525	4,97
T27	6,35 (1/4")	25	6	108T-2527	4,97
T30	6,35 (1/4")	25	6	108T-2530	4,97



Punta TORX® indeformables.

■ 108T-25/TH

TH	D	L		Ref	€
T10H	6,35 (1/4")	25	4	108TH-2510	5,24
T15H	6,35 (1/4")	25	4	108TH-2515	5,24
T20H	6,35 (1/4")	25	5	108TH-2520	5,24
T25H	6,35 (1/4")	25	6	108TH-2525	5,24
T27H	6,35 (1/4")	25	6	108TH-2527	5,24
T30H	6,35 (1/4")	25	6	108TH-2530	5,24

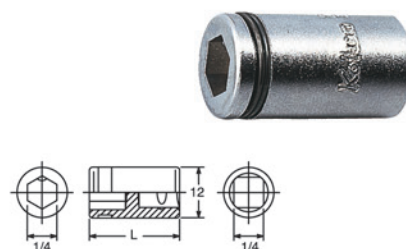


Porta punta.

■ 2137

Ref	L		€
2137	22,5	13	6,39

 = 1/4"

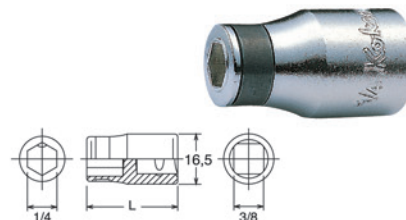


Porta punta.

■ 3137

Ref	L		€
3137	30	30	7,57

 = 3/8"

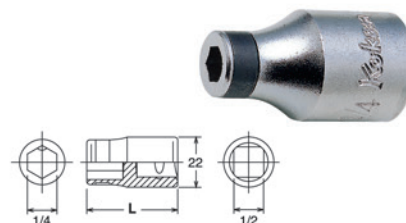


Porta punta.

■ 4137

Ref	L		€
4137	38	53	8,22

 = 1/2"



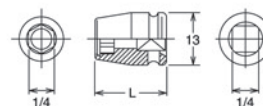


Porta punta de impacto.

12139

Ref	L		€
12139	26	15	10,48

□ = 1/4"

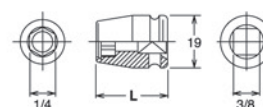


Porta punta de impacto.

13139

Ref	L		€
13139	30	32	11,22

□ = 3/8"

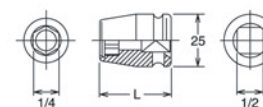


Porta punta de impacto.

14139

Ref	L		€
14139	38	62	13,09

□ = 1/2"

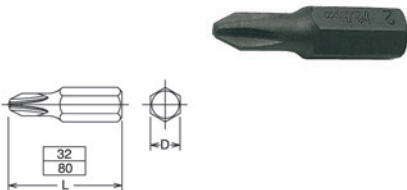




Puntas Phillips.

100P-32/ -80

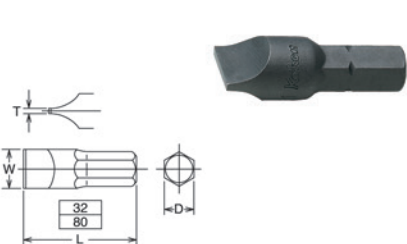
PH	D			Ref L-32	€	Ref L-80	€
		32	80				
PH1	8 (5/16")	11	30	100P-321	1,85	100P-801	3,27
PH2	8 (5/16")	11	30	100P-322	1,85	100P-802	3,27
PH3	8 (5/16")	12	31	100P-323	1,85	100P-803	3,27
PH4	8 (5/16")	12	32	100P-324	1,85	100P-804	3,27



Puntas rectas/planas.

100S-32/ -80

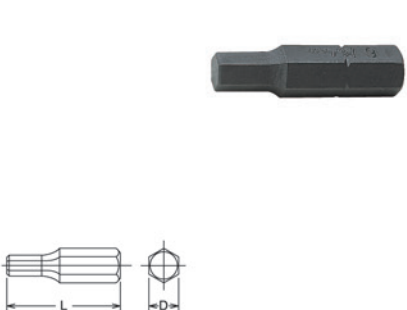
mm	T x W	D			Ref L-32	€	Ref L-80	€
			32	80				
6	1 x 6	8 (5/16")	10	29	100S-326	2,61	100S-806	5,24
7	1 x 7	8 (5/16")	11	30	100S-327	2,61	100S-807	5,24
8	1,2 x 8	8 (5/16")	12	31	100S-328	2,61	100S-808	5,24
9	1,6 x 9	8 (5/16")	12	32	100S-329	2,61	100S-809	5,75
11	1,6 x 11	8 (5/16")	15	33	100S-3211	3,22	100S-8011	5,75
12	2 x 12	8 (5/16")	18	34	100S-3212	3,22	100S-8012	5,75
14	2 x 14	8 (5/16")	21	37	100S-3214	3,61	100S-8014	5,75



Puntas hexagonales.

100H-32

mm	D	L		Ref	€
3	8 (5/16")	32	11	100H-323	3,16
4	8 (5/16")	32	11	100H-324	3,16
5	8 (5/16")	32	12	100H-325	3,16
6	8 (5/16")	32	12	100H-326	3,16
7	8 (5/16")	32	13	100H-327	3,16
8	8 (5/16")	32	13	100H-328	3,16
9	8 (5/16")	32	15	100H-329	4,46
10	8 (5/16")	32	16	100H-3210	4,46
12	8 (5/16")	32	23	100H-3212	4,46
14	8 (5/16")	32	29	100H-3214	5,13



Puntas TORX®.

100T-32

TORX®	D	L		Ref	€
T10	8 (5/16")	32	9	100T-3210	5,36
T15	8 (5/16")	32	9	100T-3215	5,36
T20	8 (5/16")	32	9	100T-3220	5,36
T25	8 (5/16")	32	10	100T-3225	5,36
T27	8 (5/16")	32	10	100T-3227	5,36
T30	8 (5/16")	32	11	100T-3230	5,36
T40	8 (5/16")	32	12	100T-3240	5,36
T45	8 (5/16")	32	12	100T-3245	5,36
T50	8 (5/16")	32	12	100T-3250	5,36
T55	8 (5/16")	32	12	100T-3255	5,36





Punta TORX® indeformables.

100T-32/TH

TH	D	L		Ref	€
T10H	8 (5/16")	32	9	100T-3210H	6,04
T15H	8 (5/16")	32	9	100T-3215H	6,04
T20H	8 (5/16")	32	9	100T-3220H	6,04
T25H	8 (5/16")	32	10	100T-3225H	6,04
T27H	8 (5/16")	32	10	100T-3227H	6,04
T30H	8 (5/16")	32	11	100T-3230H	6,04
T40H	8 (5/16")	32	12	100T-3240H	6,04
T45H	8 (5/16")	32	12	100T-3245H	6,04
T50H	8 (5/16")	32	12	100T-3250H	6,45

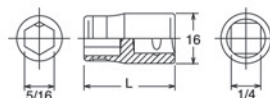


Porta punta.

2138

Ref	L		€
2138	26	32	6,72

□ = 1/4"

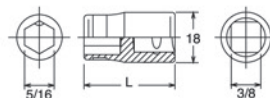


Porta punta.

3138

Ref	L		€
3138	38	55	7,58

□ = 3/8"

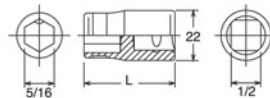


Porta punta.

4138

Ref	L		€
4138	38	62	7,58

□ = 1/2"

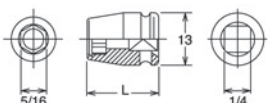


Porta punta de impacto.

12140

Ref	L		€
12140	26	17	10,48

□ = 1/4"



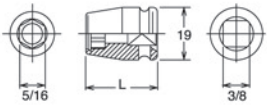


Porta punta de impacto.

13140

Ref	L		€
13140	30	33	11,22

 = 3/8"

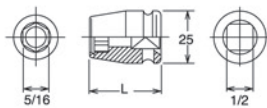


Porta punta de impacto.

14140

Ref	L		€
14140	38	70	13,09

 = 1/2"



Puntas Phillips.

131P-80

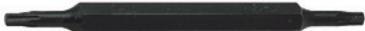
nº	PH	D	L		Ref	€
1	PH1 x PH2	8 (5/16")	80	28	131P-801	5,61
2	PH2 x HP3	8 (5/16")	80	28	131P-802	5,61
3	PH3 x PH3	8 (5/16")	80	28	131P-803	5,61



Puntas TORX®.

131T-80

TORX®	D	L		Ref	€
T10 x T15	8 (5/16")	80	27	131T-801015	6,66
T20 x T25	8 (5/16")	80	27	131T-802025	6,66
T27 x T30	8 (5/16")	80	28	131T-802730	6,66

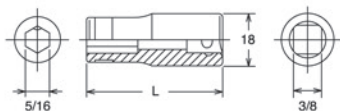


Porta punta extra largo para 131P-80, 131T-80

3141

Ref	L		€
3141	48	60	18,87

 = 3/8"

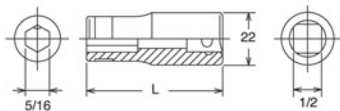


Porta punta extra largo para 131P-80, 131T-80

4141

Ref	L		€
4141	52	70	17,16

 = 1/2"

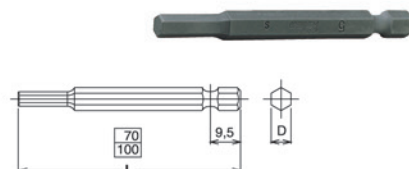




Puntas hexagonales.

121H-70/ -100

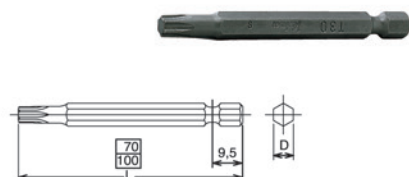
mm	D			Ref L-70	€	Ref L-100	€
		70	100				
3	6,35 (1/4")	15	23	121H-703	4,95	121H-1003	5,26
4	6,35 (1/4")	15	23	121H-704	4,95	121H-1004	5,26
5	6,35 (1/4")	16	24	121H-705	4,95	121H-1005	5,26
6	6,35 (1/4")	18	26	121H-706	4,95	121H-1006	5,26



Puntas TORX®.

121T-70/ -100

TORX®	D			Ref L-70	€	Ref L-100	€
		70	100				
T20	6,35 (1/4")	16	24	121T-7020	5,15	121T-10020	5,42
T25	6,35 (1/4")	16	24	121T-7025	5,15	121T-10025	5,42
T27	6,35 (1/4")	17	24	121T-7027	5,15	121T-10027	5,42
T30	6,35 (1/4")	17	25	121T-7030	5,15	121T-10030	5,42
T40	6,35 (1/4")	18	26	121T-7040	5,15	121T-10040	5,42



Porta punta de impacto para puntas 1/4" (6.3).

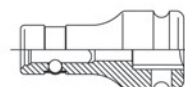
13137E

Ref	€
13137E	14,91

3/8"

Válido para las puntas:

- DIN 3126-C6.3
- DIN 3126-E6.3
- Simétrica



Porta punta de impacto para puntas 1/4" (6.3).

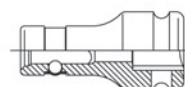
14137E

Ref	€
14137E	16,69

1/2"

Válido para las puntas:

- DIN 3126-C6.3
- DIN 3126-E6.3
- Simétrica

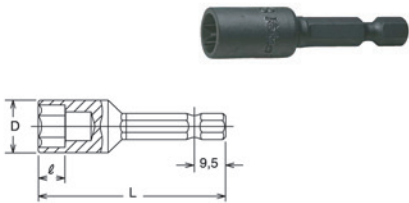




Vasos para apretar tuercas hexagonales.

113

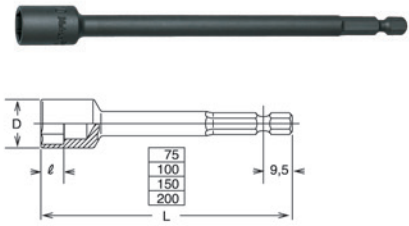
mm	pulgadas	D	ℓ	L		Ref Métrica	€	Ref Pulgadas	€
5,5		9	4	50	15	11355	5,13		
6	1/4	10	5	50	17	1136	5,13	1131/4	5,49
7		11	5	50	19	1137	5,13		
8	5/16	12	6	50	20	1138	5,13	1135/16	5,49
10	3/8	14	7	50	31	11310	5,64	1133/8	6,04
12		17	8	50	39	11312	7,85		
13	1/2	18	8	50	42	11313	8,38	1131/2	9,06



Vasos para apretar tuercas hexagonales.

113-75/ -100/ -150/ -200

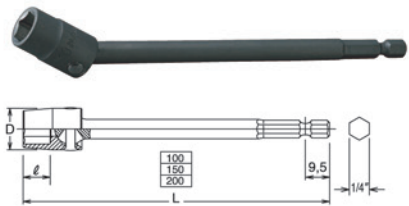
mm	D	ℓ					Ref 75	€	Ref L-100	€	Ref L-150	€	Ref L-200	€
			75	100	150	200								
7	11,5	5	31	40	59	78	113-757	11,34	113-1007	14,60	113-1507	17,44	113-2007	19,60
8	12,7	6	32	41	60	79	113-758	11,34	113-1008	14,60	113-1508	17,44	113-2008	19,60
10	14,5	7	35	45	64	83	113-7510	11,60	113-10010	14,86	113-15010	17,73	113-20010	19,85
12	17	8	42	52	70	91	113-7512	12,09	113-10012	15,35	113-15012	18,24	113-20012	20,46
13	18	8	41	51	76	93	113-7513	13,72	113-10013	16,84	113-15013	19,74	113-20013	21,72
14	19	9	43	53	78	95	113-7514	14,85	113-10014	17,32	113-15014	20,86	113-20014	22,96



Vasos para apretar tuercas hexagonales con articulación universal.

113UN-100/ -150/ -200

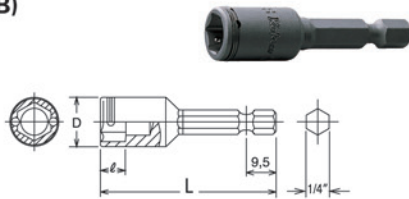
mm	D	ℓ				Ref L-100	€	Ref L-150	€	Ref L-200	€
			100	150	200						
8	13	7	50	65	57	113UN-1008	53,95	113UN-1508	53,95	113UN-2008	57,17
10	15	8	53	70	87	113UN-10010	53,95	113UN-15010	53,95	113UN-20010	57,17
12	17	10	56	77	98	113UN-10012	53,95	113UN-15012	53,95	113UN-20012	57,17
14	19,2	10	60	75	99	113UN-10014	53,95	113UN-15014	53,95	113UN-20014	57,17



Vasos para apretar tuercas con sujeta-tuercas.

113-50(2B)

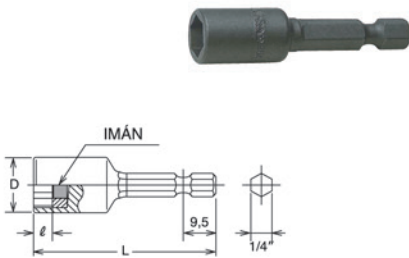
mm	D	ℓ	L		Ref	€
7	11	5	50	20	113-502B7	9,72
8	12	6	50	21	113-502B8	9,72
10	14,2	7	50	26	113-502B10	9,72
13	18	8	50	31	113-502B13	15,87



Vasos para tuercas con imán.

115

mm	pulgadas	D	ℓ	L		Ref Métrica	€	Ref Pulgadas	€
5,5		9	2,1	50	15	11555	7,35		
6		10	2,4	50	17	1156	7,35		
	1/4	10	1,8	50	17			1151/4	7,74
7		11	2,8	50	19	1157	7,35		
8	5/16	12	3,5	50	20	1158	7,35	1155/16	7,74
10	3/8	14	4,2	50	29	11510	8,37	1153/8	8,78
12		17	5,6	50	40	11512	11,38		
13		18	6	50	50	11513	12,03		
14		19	6,4	50	61	11514	16,45		

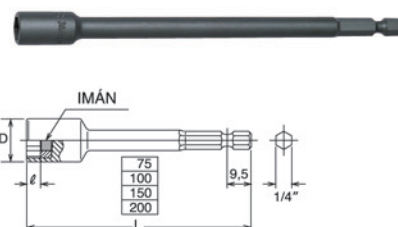




Vasos para tuercas con imán.

■ 115-75/ -100/ -150/ -200

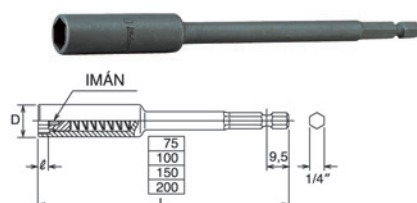
mm	D	ℓ	75 100 150 200				Ref 75	€	Ref L-100	€	Ref L-150	€	Ref L-200	€
7	11,5	2,8	32	41	60	79	115-757	13,21	115-1007	16,44	115-1507	19,11	115-2007	21,46
8	12,7	3,5	33	42	61	80	115-758	13,21	115-1008	16,44	115-1508	19,34	115-2008	21,46
10	14,5	4,2	38	50	68	88	115-7510	13,99	115-10010	16,97	115-15010	19,85	115-20010	21,95
12	17	5,6	46	58	77	97	115-7512	15,25	115-10012	18,24	115-15012	20,97	115-20012	23,08
13	18	6	49	62	82	102	115-7513	17,63	115-10013	20,10	115-15013	23,34	115-20013	25,58
14	19	6,4	52	65	85	105	115-7514	20,11	115-10014	23,34	115-15014	26,34	115-20014	28,45



Vasos para tuercas con imán corredizo.

■ 115G-75/ -100/ -150/ -200

mm	D	ℓ	75 100 150 200				Ref 75	€	Ref L-100	€	Ref L-150	€	Ref L-200	€
8	12,7	3,5	41	51	70	89	115G-758	24,09	115G-1008	27,46	115G-1508	30,58	115G-2008	32,79
10	14,5	4,2	48	57	77	96	115G-7510	24,95	115G-10010	28,33	115G-15010	28,13	115G-20010	33,71
12	17	5,6	65	77	95	119	115G-7512	26,34	115G-10012	29,71	115G-15012	32,71	115G-20012	35,08
13	18	6	70	80	100	125	115G-7513	29,10	115G-10013	32,26	115G-15013	34,07	115G-20013	35,40
14	19	6,4	73	82	105	128	115G-7514	29,96	115G-10014	33,18	115G-15014	36,69	115G-20014	38,69

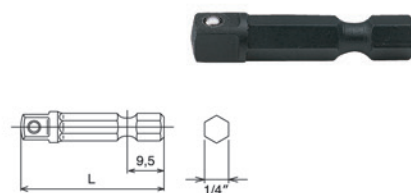


Adaptadores con bola.

■ 110-35B/-50B/ -100B/ -150B

Ref	L	ℓ	€
110-35B	35	9	6,93
110-50B	50	15	7,99
110-100B	100	34	8,51
110-150B	150	54	9,94

■ 1/4" ○ 1/4"

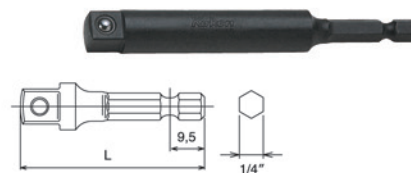


Adaptadores con bola.

■ 112-50B/ -100B/ -150B

Ref	L	ℓ	€
112-50B	50	22	9,42
112-100B	100	71	10,41
112-150B	150	121	11,75

■ 3/8" ○ 1/4"

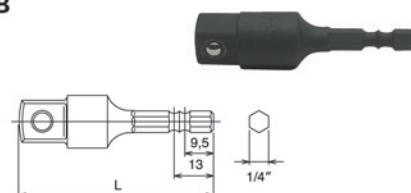


Adaptadores con bola.

■ 135E-60B

Ref	L	ℓ	€
135E-60B	60	64	11,41

■ 1/2" ○ 1/4"

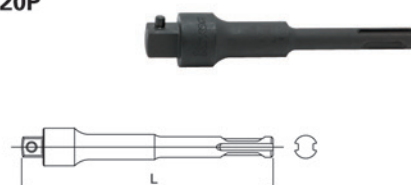


Adaptador para taladro de percusión.

■ BD022-120P

Ref	L	ℓ	€
BD022-120P-3/8	120	100	21,56
BD022-120P-1/2	120	160	21,56

■ 3/8" 1/2"

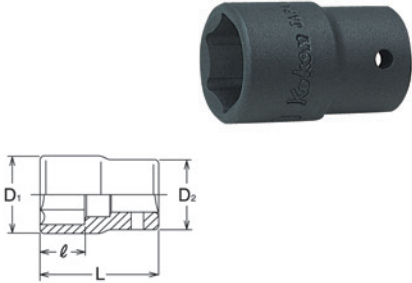




Vasos hexagonales.

■ 22400M

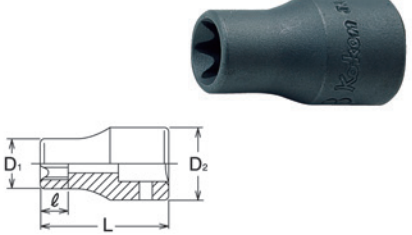
mm	D ₁	D ₂	ℓ	L		Ref	€
6	9	11,2	5,4	22	9	22400M6	2,59
7	10,2	11,2	6,1	22	9	22400M7	2,59
8	11,3	12	7,3	22	11	22400M8	2,59
10	14,3	12,9	8,2	22	15	22400M10	2,70
12	17,4	16	9,6	22	23	22400M12	3,03
13	18	16,4	10,3	22	23	22400M13	3,36



Vasos TORX®.

■ 22425

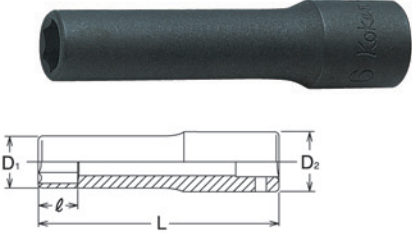
TORX®	D ₁	D ₂	ℓ	L		Ref	€
E 4	6,6	13	4,2	23	7	22425E4	4,15
E 5	7,7	13	4,2	23	8	22425E5	4,15
E 6	8,7	13	5	23	8	22425E6	3,48
E 7	9,2	13	5,8	23	9	22425E7	3,48
E 8	9,7	13	6,6	23	9	22425E8	3,48
E10	12,2	13	7,4	23	10	22425E10	3,48



Vasos hexagonales largos.

■ 22300M ■ 22300A

mm	pulgadas	D ₁	D ₂	ℓ	L		Ref Métrica	€	Ref Pulgadas	€
7	1/4	9,8	12	7	50	24	22300M7	5,83	22300A1/4	7,71
8		10,9	12	8	50	24	22300M8	5,83		
8	5/16	11,6	12	9	50	28	22300M8	5,83	22300A5/16	8,51
10	3/8	14,3	12,8	11	50	33	22300M10	5,83	22300A3/8	8,51
12		17,4	15,5	13	50	50	22300M12	8,85		
		18	16,2	14	50	50	22300M13	9,37		

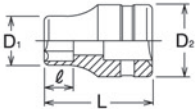




Vasos hexagonales.

■ 23400M ■ 23400A

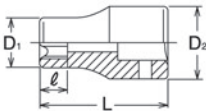
mm	pulgadas	D1	D2	ℓ	L		Ref Métrica	€	Ref Pulgadas	€
6		9,9	17,3	6	26	20	23400M6	4,73		
7		10,8	17,3	6,5	26	20	23400M7	4,73		
8	5/16	12	17,3	6,9	26	22	23400M8	4,67	23400A5/16	4,90
	3/8	13,9	17,3	8	26	22			23400A3/8	4,90
10		14,5	17,3	8	26	24	23400M10	4,67		
11	7/16	15,8	17,3	9,3	26	25	23400M11	4,67	23400A7/16	4,90
12		16,8	17,3	9	26	25	23400M12	4,67		
13	1/2	18	17	9,4	26	24	23400M13	5,16	23400A1/2	5,44
14	9/16	19,5	18,5	11	27	31	23400M14	5,16	23400A9/16	5,44
15		20,8	19,5	11,5	28	39	23400M15	5,16		
16		22	201	12	28	42	23400M16	5,16		
17		23,4	21,5	12,5	29	51	23400M17	5,16		
18	11/16	24,5	22,5	13	30	51	23400M18	5,16	23400A11/16	5,44
19	3/4	25,8	23,5	13,5	30	63	23400M19	5,16	23400A3/4	5,44
21		28	26	14,5	32	32	23400M21	7,38		



Vasos TORX®.

■ 23425

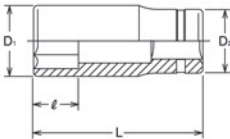
TORX®	D1	D2	ℓ	L		Ref	€
E 5	10,2	19	4,2	32	20	23425E5	5,67
E 6	10,7	19	5	32	21	23425E6	5,56
E 7	11,2	19	5,8	32	22	23425E7	5,56
E 8	11,7	19	6,6	32	23	23425E8	5,56
E10	12,2	19	7,4	32	24	23425E10	5,56
E12	14,2	19	9	32	26	23425E12	5,56
E14	17,2	19	9,8	32	27	23425E14	5,56
E16	18,2	19	10,6	32	27	23425E16	5,83



Vasos hexagonales largos.

■ 23300M ■ 23300A

mm	pulgadas	D1	D2	ℓ	L		Ref Métrica	€	Ref Pulgadas	€
8	5/16	12	17,3	9	55	45	23300M8	8,14	23300A5/16	8,51
	3/8	14	17,3	11	55	51			23300A3/8	8,51
10		14,5	17,3	11	55	52	23300M10	8,14		
11	7/16	16	17,3	12	55	55	23300M11	8,14	23300A7/16	8,51
12		16,8	17,2	13	55	58	23300M12	8,14		
13	1/2	18	17	14	55	57	23300M13	9,05	23300A1/2	9,55
14	9/16	20	18	16	55	68	23300M14	9,05	23300A9/16	9,55
15		21	20	16	55	78	23300M15	9,05		
16		22	20	17	55	79	23300M16	9,05		
17		23,5	22	18	55	96	23300M17	9,05		
18	11/16	24,5	23	19	55	96	23300M18	10,46	23300A11/16	9,55
19	3/4	25	24	20	55	102	23300M19	10,46	23300A3/4	11,01

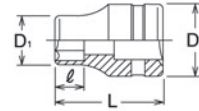




Vasos hexagonales.

■ 24400M ■ 24400A

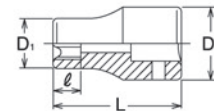
mm	pulgadas	D ₁	D ₂	ℓ	L		Ref Métrica	€	Ref Pulgadas	€
10		15,3	21	9	37	45	24400M10	5,56		
11	7/16	16,5	21	9,5	37	46	24400M11	5,56	24400A7/16	5,83
12		17,8	21	10	37	47	24400M12	5,56		
13	1/2	19,0	22	10,5	37	53	24400M13	5,56	24400A1/2	5,83
14	9/16	20,3	22	11	37	56	24400M14	5,83	24400A9/16	6,20
15		21,5	22	1,5	37	52	24400M15	5,83		
16	5/8	22,8	22	12	37	62	24400M16	5,83	24400A5/8	6,20
17		24	23	12,5	37	69	24400M17	5,83		
18		25	24	13	37	74	24400M18	5,83		
19	3/4	26,5	25	14	38	89	24400M19	5,83	24400A3/4	6,20
20		27,8	26	15	38	92	24400M20	6,58		
21		29	27	15,5	38	102	24400M21	6,58		
22		30	28	16	40	113	24400M22	6,58		
24	15/16	32,8	30	17	42	140	24400M24	6,97	24400A15/16	7,24



Vasos TORX®.

■ 24425

TORX®	D ₁	D ₂	ℓ	L		Ref	€
E10	14,2	25	7,4	38	44	24425E10	6,60
E12	15,2	25	9	38	47	24425E12	6,60
E14	18,2	25	9,8	38	48	24425E14	6,60
E16	19,2	25	10,6	38	57	24425E16	6,60
E18	22,2	25	12,1	38	57	24425E18	6,60
E20	24,2	30	13,7	38	63	24425E20	7,24



Vasos hexagonales largos.

■ 24300M ■ 24300A

mm	pulgadas	D ₁	D ₂	ℓ	L		Ref Métrica	€	Ref Pulgadas	€
10		15,3	21	11	77	91	24300M10	11,77		
11	7/16	16,5	21	12	77	95	24300M11	11,77	24300A7/16	12,37
12		17,8	21	13	77	99	24300M12	11,77		
13	1/2	19,0	21,8	14	77	107	24300M13	11,77	24300A1/2	12,37
14	9/16	20,3	21,8	15	77	118	24300M14	11,77	24300A9/16	12,37
15		21,5	21,8	16	77	123	24300M15	11,77		
16	5/8	22,8	22	17	77	141	24300M16	11,77	24300A5/8	12,37
17	21/32	24	23	18	77	150	24300M17	11,77	24300A21/32	12,37
18	11/16	25	24	19	77	164	24300M18	12,78	24300A11/16	13,41
19	3/4	26,5	25	20	77	177	24300M19	12,78	24300A3/4	13,41
20		27,8	26	21	77	178	24300M20	12,78		
21	13/16	29	27	23	77	187	24300M21	14,86	24300A13/16	15,49
22		30	28	27	77	202	24300M22	14,86		
24	15/16	32,8	30	27	77	252	24300M24	16,40	24300A15/16	17,16

