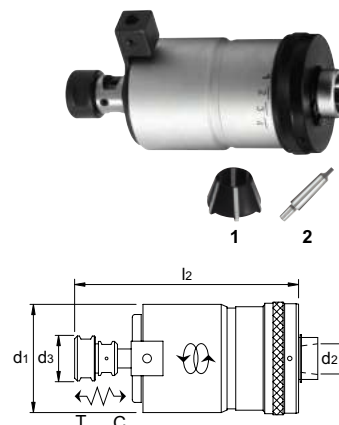


> 81.700 INTERNATIONAL TOOLS

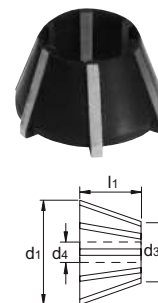
- NL ECO PRO Tapapparaat met omkeerinrichting, met druk- en trek-compensatie, met instelbare slipkoppeling
 FR Appareil à tarauder ECO PRO dispositif d'inversion, à compensation de pression et de traction, à réglage de couple par friction
 ES Aparato roscador ECO PRO con dispositivo de inversión, con compensación de presión y de tracción, con ajuste de par por fricción
 DE ECO PRO Gewindeschneidmaschinen mit Umkehrvorrichtung, mit Zug- und Druckausgleich, mit einstellbarer Rutschkupplung
 EN ECO PRO Tapping Unit with reversing arrangement, with push and pull compensation, with adjustable torque coupling



Ref.	Ø	d2	d1	d3	l2	x:y	RPM	Release	1 incl.	2 excl.	€
81.700.0070	M2-M7	B16	54	23	129.5	1:2.4	1500	3.5	81.710.0204/0407	84.170	589,00
81.700.0120	M5-M12	B16	74	28	156	1:2.2	1000	4	81.710.0510/0712	84.170	798,00
81.700.0200	M8-M20	B22	89	38	205.5	1:2.3	600	6	81.710.0814/1620	84.170	818,00

> 81.710 INTERNATIONAL TOOLS

- NL ECO PRO Rubberflex spantang voor 81.700
 FR Pince de serrage Rubberflex ECO PRO pour 81.700
 ES Pinza de sujeción Rubberflex ECO PRO parra 81.700
 DE ECO PRO Rubberflex-Spannzangen für 81.700
 EN ECO PRO Rubberflex collet for 81.700



ECO PRO

Ref.	d1	d3	d4	l1	M	Ø	€
81.710.0204	13.3	4.5	2.5	11	M2-M4	2,5-4,5	55,50
81.710.0407	13.3	6.5	4.5	11	M4-M7	4,5-6,5	55,50
81.710.0510	20.5	6.5	3.5	13	M5-M10	3,5-6,5	55,50
81.710.0712	20.5	10	6.5	13	M7-M12	6,5-10	55,50
81.710.0814	28.5	10	4.5	15	M8-M14	4,5-10	55,50
81.710.1620	28.5	13	7	15	M16-M20	7,0-13	55,50



- NL Montage boorhouderstift in tapkop
 FR Monter un arbre de mandrin de perçage dans un appareil à tarauder
 ES Sujetar una espiga en un portamachos
 DE Montieren Bohrfutteraufnahme im Gewindeschneidhalter
 EN Mounting arbor into tapping head

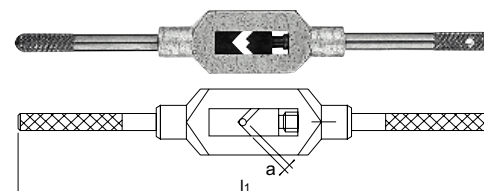
Watch me



www.phantom.eu

> 81.900

- NL Verstelbaar Wringijzer, standaard kwaliteit, Zink-legering
 FR Tourne à gauche expansible, qualité standard, alliage de zinc
 ES Giramacho extensible, calidad estándar, aleación de cinc
 DE Verstellbare Windeisen, Standard-Qualität, Zinkdruckguß
 EN Adjustable Tap Wrench, standard quality, zinc die cast



DIN 1814

Ref.	Nr.	M	BSW	BSP	l1	a	€
81.900.0000	0	M1-M6	1/16-1/4	-	125	2-5	8,77
81.900.0100	1	M1-M10	1/16-3/8	1/8	180	2-6	8,93
81.900.0150	1,5	M3-M12	1/16-1/2	1/8	200	2,5-8	9,30
81.900.0200	2	M4,5-M16	5/32-1/2	1/8	280	4-9	16,37
81.900.0300	3	M4,5-M20	7/32-3/4	1/8-1/2	375	4,9-12	28,15
81.900.0400	4	M7-M27	7/16-1	1/4-3/4	500	5,5-16	45,00
81.900.0500	5L	M9-M33	1/2-1.1/4	1/4-1	750	7-20	72,70

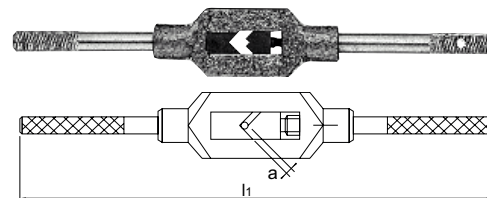


> 81.905

NL Verstelbaar Wringijzer, extra kwaliteit, staal
FR Tourne à gauche expansible, qualité supérieure, acier
ES Giramacho extensible, calidad superior, acero
DE Verstellbare Windeisen, Extra-Qualität, Stahl
EN Adjustable Tap Wrench, extra quality, steel

DIN

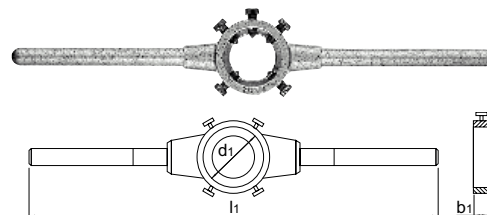
1814



Ref.	Nr.	M	BSW	BSP	l1	a	€
81.905.0000	0	M1-M6	1/16-1/4	-	130	2-5	18,00
81.905.0100	1	M1-M10	1/16-3/8	1/8	180	2-6	21,00
81.905.0150	1,5	M3-M12	1/16-1/2	1/8	200	2,5-8	21,00
81.905.0200	2	M4,5-M16	5/32-1/2	1/8	280	4-9	32,00
81.905.0300	3	M4,5-M20	7/32-3/4	1/8-1/2	375	4,9-12	48,00
81.905.0400	4	M7-M27	7/16-1	1/4-3/4	500	5,5-16	79,00
81.905.0500	5S	M9-M33	1/2-1.1/4	1/4-1	750	7-20	136,00
81.905.0600	6L	M18-M42	3/4-1.1/2	1/2-1.1/4	1000	9-25	148,00
81.905.0800	8	M27-M68	1-2.1/2	3/4-3	1250	16-40	218,00

> 81.910

NL Snijplaathouder, standaard kwaliteit, Zink-legering
FR Porte-filières, qualité standard, alliage de zinc
ES Portaterraja, calidad estándar, aleación de cinc
DE Schneideisenhalter, Standard-Qualität, Zinkdruckguß
EN Die Stock, standard quality, zinc die cast

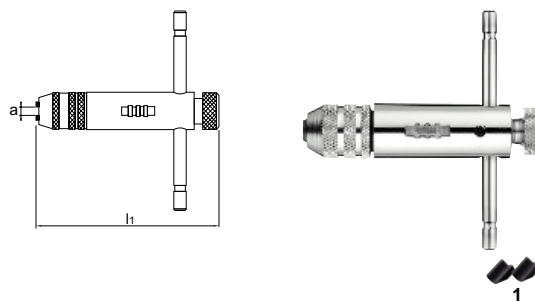
DIN
EN
22568DIN
225DIN
EN
24230DIN
EN
24231ISO
2568

Ref.	d1	b1	l1	€
81.910.1605	16	5	160	3,30
81.910.2005	20	5	200	3,90
81.910.2007	20	7	200	3,90
81.910.2509	25	9	224	4,85
81.910.3011	30	11	280	7,65
81.910.3810	38	10	315	10,60
81.910.3814	38	14	315	10,60
81.910.4514	45	14	450	16,65
81.910.4518	45	18	450	16,65
81.910.5516	55	16	560	23,10
81.910.5522	55	22	560	23,10
81.910.6518	65	18	630	30,40
81.910.6525	65	25	630	30,40

Ref.	d1	b1	l1	€
81.910.7520	75	20	800	111,30
81.910.7530	75	30	800	67,90
81.910.9022	90	22	900	152,75
81.910.9036	90	36	900	152,75
81.910.9122	105	22	1000	261,00
81.910.9136	105	36	1000	261,00
81.910.9222	120	22	1100	426,00
81.910.9236	120	36	1100	426,00
81.910.9322	130	22	1100	600,00
81.910.9336	130	36	1100	600,00
81.910.9422	140	22	1200	719,00
81.910.9522	150	22	1200	820,00
81.910.9622	160	22	1300	1.336,00

> 81.930

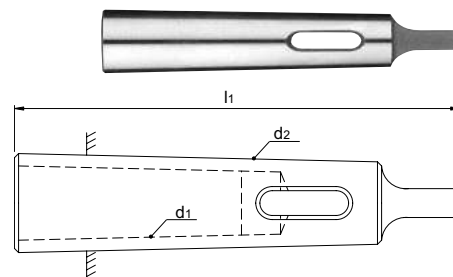
NL Rateltapkrukje
FR Porte-tarauds à cliquet
ES Giromacho en T con carraca
DE Werkzeughalter mit Knarre
EN Tap Wrench



Ref.	Nr.	M	BSW	BSP	a	l1	1	€
81.930.0100	1	M3-M10	1/8-3/8	-	2,4-5,5	85	81.938.0100	15,00
81.930.0200	2	M5-M12	7/32-1/2	1/8	4,5-7	100	81.938.0200	20,00

> 84.100 INTERNATIONAL TOOLS

NL ECO PRO Boorhuls (Reduceerhuls) MK x MK
 FR Douille (de réduction) ECO PRO CM x CM
 ES Casquillo (Casquillo de reducción) ECO PRO CM x CM
 DE ECO PRO Bohrhülse (Reduzierhülse) MK x MK
 EN ECO PRO Morse Taper Sleeve (Reducing Bush) MT x MT



DIN
2185

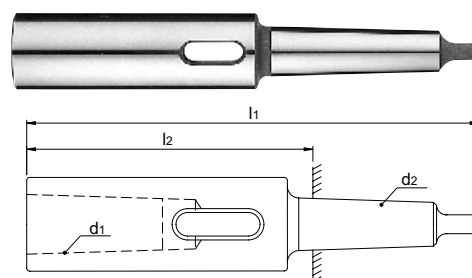
ECO
PRO

Ref.	d2	d1	l1	€
84.100.0100	MK 1	-	85	7,17
84.100.0201	MK 2	MK 1	92	7,55
84.100.0301	MK 3	MK 1	99	6,82
84.100.0302	MK 3	MK 2	112	6,82
84.100.0401	MK 4	MK 1	124	9,78
84.100.0402	MK 4	MK 2	124	9,78
84.100.0403	MK 4	MK 3	140	9,78
84.100.0501	MK 5	MK 1	156	23,59

Ref.	d2	d1	l1	€
84.100.0502	MK 5	MK 2	156	23,59
84.100.0503	MK 5	MK 3	156	20,60
84.100.0504	MK 5	MK 4	171	20,60
84.100.0602	MK 6	MK 2	218	40,45
84.100.0603	MK 6	MK 3	218	35,40
84.100.0604	MK 6	MK 4	218	35,40
84.100.0605	MK 6	MK 5	218	35,40

> 84.110 INTERNATIONAL TOOLS

NL ECO PRO Verlengde Boorhuls MK x MK
 FR Douille allongée ECO PRO CM x CM
 ES Casquillo de prolongación ECO PRO CM x CM
 DE ECO PRO Verlängerte Bohrhülse MK x MK
 EN ECO PRO Extended Morse Taper Sleeve MT x MT



DIN
2187

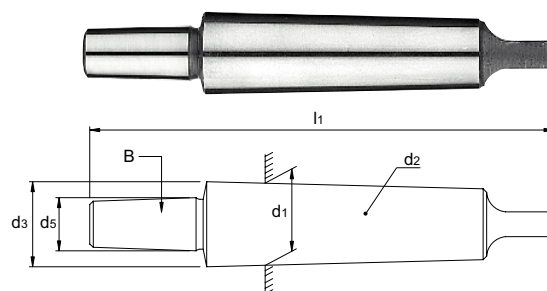
ECO
PRO

Ref.	d2	d1	l1	l2	€
84.110.0101	MK 1	MK 1	145	83	10,23
84.110.0102	MK 1	MK 2	160	91	19,22
84.110.0103	MK 1	MK 3	183	121	29,35
84.110.0201	MK 2	MK 1	160	85	14,28
84.110.0202	MK 2	MK 2	175	100	20,32
84.110.0203	MK 2	MK 3	196	112	27,70
84.110.0204	MK 2	MK 4	221	146	38,35
84.110.0301	MK 3	MK 1	175	81	20,61
84.110.0302	MK 3	MK 2	194	100	20,32
84.110.0303	MK 3	MK 3	215	121	27,70
84.110.0304	MK 3	MK 4	240	137	32,80

Ref.	d2	d1	l1	l2	€
84.110.0305	MK 3	MK 5	275	181	63,95
84.110.0401	MK 4	MK 1	200	76	29,85
84.110.0402	MK 4	MK 2	215	97,5	24,65
84.110.0403	MK 4	MK 3	240	122,5	28,85
84.110.0404	MK 4	MK 4	265	147,5	46,55
84.110.0405	MK 4	MK 5	300	172	69,40
84.110.0502	MK 5	MK 2	247	145	49,70
84.110.0503	MK 5	MK 3	268	118,5	49,70
84.110.0504	MK 5	MK 4	300	150,5	48,05
84.110.0505	MK 5	MK 5	335	185,5	75,70

> 84.170 INTERNATIONAL TOOLS

NL ECO PRO Boorhouderstift MK en B-opname DIN 238
 FR Arbre de mandrin de perçage ECO PRO CM et cône B selon DIN 238
 ES Espiga para portabrocas ECO PRO CM y con sujeción B DIN 238
 DE ECO PRO Bohrfutterkegel MK und B-Aufnahme DIN 238
 EN ECO PRO Drill Chuck Arbor MT and B Taper DIN 238



DIN
238

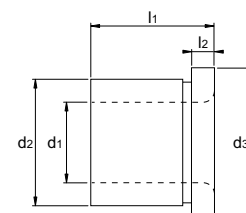
ECO
PRO

Ref.	d2	B	l1	d1	d5	d3	€
84.170.0110	MK 1	B10	86	12.065	10.095	12.22	4,90
84.170.0112	MK 1	B12	90	12.065	12.065	12.22	4,90
84.170.0116	MK 1	B16	96	12.065	15.733	12.22	4,90
84.170.0118	MK 1	B18	104	12.065	17.78	12.22	4,90
84.170.0210	MK 2	B10	105	17.78	10.095	18	5,42
84.170.0212	MK 2	B12	105	17.78	12.065	18	5,42
84.170.0216	MK 2	B16	112	17.78	15.733	18	5,42
84.170.0218	MK 2	B18	119	17.78	17.78	18	5,42
84.170.0222	MK 2	B22	128	17.78	21.793	18	5,42
84.170.0312	MK 3	B12	124	23.825	12.065	24.1	7,03

Ref.	d2	B	l1	d1	d5	d3	€
84.170.0316	MK 3	B16	130	23.825	15.733	24.1	7,03
84.170.0318	MK 3	B18	138	23.825	17.78	24.1	7,03
84.170.0322	MK 3	B22	147	23.825	21.793	24.1	7,56
84.170.0416	MK 4	B16	156	31.267	15.733	31.6	10,93
84.170.0418	MK 4	B18	164	31.267	17.78	31.6	10,93
84.170.0422	MK 4	B22	176	31.267	21.793	31.6	10,93
84.170.0516	MK 5	B16	188	44.399	15.733	44.7	22,95
84.170.0518	MK 5	B18	198	44.399	17.78	44.7	22,95
84.170.0522	MK 5	B22	207	44.399	21.793	44.7	22,95

**> 84.872 Phantom**

NL Boorbus, korte uitvoering, met kraag
 FR Canon de perçage, version courte, à collerette
 ES Casquillo guía broca, versión corto, con valona
 DE Bohrbuchsen, kurze Ausführung, mit Kragen
 EN Drill Bush, short series, headed

DIN
172-A

n6

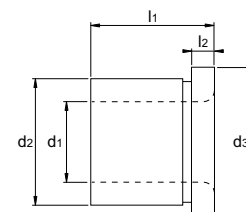
F7

Ref.	d1	d2	d3	l1	l2	€
84.872.0120	1.2	4	7	6	2	14,47
84.872.0130-84.872.0140	1.3-1.4	4	7	6	2	14,46
84.872.0150-84.872.0180	1.5-1.8	4	7	6	2	8,24
84.872.0190-84.872.0260	1.9-2.6	5	8	6	2	4,20
84.872.0270-84.872.0330	2.7-3.3	6	9	8	2.5	4,20
84.872.0340-84.872.0400	3.4-4	7	10	8	2.5	4,03
84.872.0410-84.872.0500	4.1-5	8	11	8	2.5	4,03
84.872.0510-84.872.0600	5.1-6	10	13	10	3	4,23
84.872.0610-84.872.0800	6.1-8	12	15	10	3	4,75
84.872.0810-84.872.1000	8.1-10	15	18	12	3	5,07

Ref.	d1	d2	d3	l1	l2	€
84.872.1010-84.872.1200	10.1-12	18	22	12	4	5,55
84.872.1210-84.872.1500	12.1-15	22	26	16	4	6,34
84.872.1525-84.872.1800	15.25-18	26	30	16	4	7,67
84.872.1825-84.872.2200	18.25-22	30	34	20	5	10,07
84.872.2225-84.872.2600	22.25-26	35	39	20	5	12,60
84.872.2625-84.872.3000	26.25-30	42	46	25	5	16,18
84.872.3025-84.872.3500	30.25-35	48	52	25	5	24,48
84.872.3550-84.872.3750	35.5-37.5	55	59	30	5	36,10
84.872.3800	38	55	59	30	5	39,35
84.872.3850-84.872.4000	38.5-40	55	59	30	5	39,00

> 84.873 Phantom

NL Boorbus, middellange uitvoering, met kraag
 FR Canon de perçage, version longue, à collerette
 ES Casquillo guía broca, versión larga, con valona
 DE Bohrbuchsen, mittellange Ausführung, mit Kragen
 EN Drill Bush, long version, headed

DIN
172-A

F7

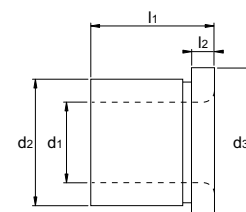
n6

Ref.	d1	d2	d3	l1	l2	€
84.873.0120-84.873.0140	1.2-1.4	4	7	9	2	17,33
84.873.0150-84.873.0180	1.5-1.8	4	7	9	2	11,00
84.873.0190-84.873.0260	1.9-2.6	5	8	9	2	4,50
84.873.0270-84.873.0330	2.7-3.3	6	9	12	2.5	4,50
84.873.0340-84.873.0400	3.4-4	7	10	12	2.5	4,46
84.873.0410-84.873.0500	4.1-5	8	11	12	2.5	4,36
84.873.0510-84.873.0600	5.1-6	10	13	16	3	4,64

Ref.	d1	d2	d3	l1	l2	€
84.873.0610-84.873.0800	6.1-8	12	15	16	3	5,16
84.873.0810-84.873.1000	8.1-10	15	18	20	3	5,64
84.873.1020-84.873.1200	10.2-12	18	22	20	4	6,34
84.873.1225-84.873.1500	12.25-15	22	26	28	4	8,57
84.873.1525-84.873.1800	15.25-18	26	30	28	4	10,23
84.873.1825-84.873.2000	18.25-20	30	34	36	5	13,68

> 84.874 Phantom

NL Boorbus, extra lange uitvoering, met kraag
 FR Canon de perçage, version extra longue, à collerette
 ES Casquillo guía broca, versión extra larga, con valona
 DE Bohrbuchsen, extra lange Ausführung, mit Kragen
 EN Drill Bush, extra long series, headed

DIN
172-A

n6

F7

Ref.	d1	d2	d3	l1	l2	€
84.874.0300	3	6	9	16	2.5	8,10
84.874.0350	3.5	7	10	16	2.5	6,95
84.874.0400	4	7	10	16	2.5	6,95
84.874.0450	4.5	8	11	16	2.5	7,27
84.874.0500	5	8	11	16	2.5	7,27
84.874.0550	5.5	10	13	20	3	7,52
84.874.0600	6	10	13	20	3	7,52
84.874.0650	6.5	12	15	20	3	8,19
84.874.0700	7	12	15	20	3	8,19

Ref.	d1	d2	d3	l1	l2	€
84.874.0750	7.5	12	15	20	3	8,19
84.874.0800	8	12	15	20	3	8,19
84.874.0850	8.5	15	18	25	3	9,18
84.874.0900	9	15	18	25	3	9,18
84.874.0950	9.5	15	18	25	3	9,18
84.874.1000	10	15	18	25	3	9,18
84.874.1050	10.5	18	22	25	4	10,26
84.874.1100	11	18	22	25	4	10,26
84.874.1150	11.5	18	22	25	4	10,26

Ref.	d1	d2	d3	l1	l2	€
84.874.1200	12	18	22	25	4	10,26
84.874.1250	12.5	22	26	36	4	13,96
84.874.1300	13	22	26	36	4	13,96
84.874.1350	13.5	22	26	36	4	13,96
84.874.1400	14	22	26	36	4	13,96
84.874.1450	14.5	22	26	36	4	13,96
84.874.1500	15	22	26	36	4	13,96
84.874.1550	15.5	26	30	36	4	18,53
84.874.1600	16	26	30	36	4	18,53

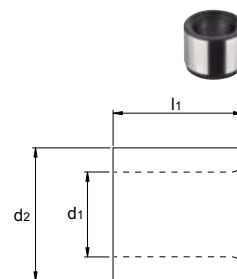
> 84.879 Phantom

NL Boorbus, korte uitvoering
FR Canon de perçage, version courte
ES Casquillo guía broca, versión corto
DE Bohrbuchsen, kurze Ausführung
EN Drill Bush, short series

DIN 179-A F7 n6

Ref.	d1	d2	l1	€
84.879.0120-84.879.0140	1.2-1.4	4	6	10,77
84.879.0150-84.879.0180	1.5-1.8	4	6	9,00
84.879.0190-84.879.0260	1.9-2.6	5	6	2,95
84.879.0270-84.879.0330	2.7-3.3	6	8	2,95
84.879.0340-84.879.0400	3.4-4	7	8	2,90
84.879.0410-84.879.0500	4.1-5	8	8	3,14
84.879.0510-84.879.0600	5.1-6	10	10	3,20
84.879.0610-84.879.0800	6.1-8	12	10	3,37
84.879.0810-84.879.1000	8.1-10	15	12	3,74
84.879.1010-84.879.1200	10.1-12	18	12	4,11
84.879.1210-84.879.1500	12.1-15	22	16	4,64

Ref.	d1	d2	l1	€
84.879.1525-84.879.1800	15.25-18	26	16	5,91
84.879.1825-84.879.2200	18.25-22	30	20	7,55
84.879.2225-84.879.2600	22.25-26	35	20	8,93
84.879.2625-84.879.3000	26.25-30	42	25	14,07
84.879.3025-84.879.3500	30.25-35	48	25	17,38
84.879.3550-84.879.4200	35.5-42	55	30	28,95
84.879.4300-84.879.4800	43-48	62	30	34,80
84.879.4900-84.879.5500	49-55	70	30	43,60
84.879.6000	60	78	35	63,40
84.879.6500	65	85	35	143,70



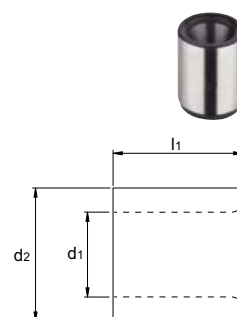
> 84.880 Phantom

NL Boorbus, middellange uitvoering
FR Canon de perçage, version longue
ES Casquillo guía broca, versión larga
DE Bohrbuchsen, mittellange Ausführung
EN Drill Bush, long version

DIN 179-A n6 F7

Ref.	d1	d2	l1	€
84.880.0120-84.880.0140	1.2-1.4	4	9	13,54
84.880.0150-84.880.0180	1.5-1.8	4	9	6,36
84.880.0190-84.880.0260	1.9-2.6	5	9	3,42
84.880.0270-84.880.0330	2.7-3.3	6	12	3,40
84.880.0340-84.880.0400	3.4-4	7	12	3,40
84.880.0410-84.880.0500	4.1-5	8	12	3,40
84.880.0510-84.880.0600	5.1-6	10	16	3,70

Ref.	d1	d2	l1	€
84.880.0610-84.880.0800	6.1-8	12	16	3,91
84.880.0810-84.880.1000	8.1-10	15	20	4,40
84.880.1020-84.880.1200	10.2-12	18	20	5,03
84.880.1225-84.880.1500	12.25-15	22	28	6,32
84.880.1525-84.880.1800	15.25-18	26	28	7,61
84.880.1825-84.880.2000	18.25-20	30	36	10,58
84.880.2500	25	35	36	11,17



> 84.881 Phantom

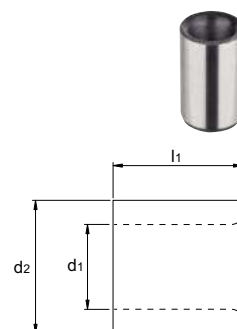
NL Boorbus, extra lange uitvoering
FR Canon de perçage, version extra longue
ES Casquillo guía broca, versión extra larga
DE Bohrbuchsen, extra lange Ausführung
EN Drill Bush, extra long series

DIN 179-A F7 n6

Ref.	d1	d2	l1	€
84.881.0300	3	6	16	7,17
84.881.0350	3.5	7	16	5,23
84.881.0400	4	7	16	5,23
84.881.0450	4.5	8	16	4,85
84.881.0500	5	8	16	4,85
84.881.0550	5.5	10	20	4,93
84.881.0600	6	10	20	4,93
84.881.0650	6.5	12	20	5,30
84.881.0700	7	12	20	5,30
84.881.0750	7.5	12	20	5,30

Ref.	d1	d2	l1	€
84.881.0780	7.8	12	20	5,30
84.881.0800	8	12	20	5,30
84.881.0850	8.5	15	25	5,93
84.881.0900	9	15	25	5,93
84.881.0950	9.5	15	25	5,93
84.881.1000	10	15	25	5,93
84.881.1050	10.5	18	25	7,02
84.881.1100	11	18	25	7,02
84.881.1150	11.5	18	25	7,02
84.881.1200	12	18	25	7,02

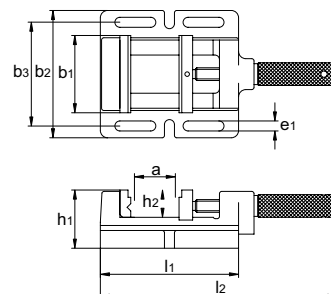
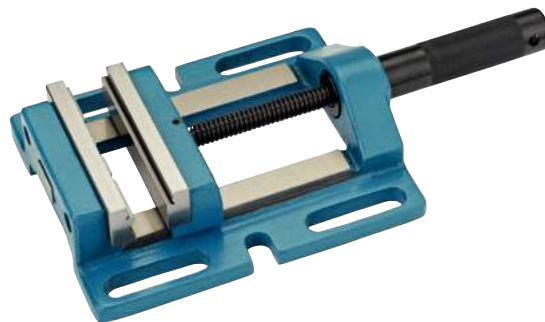
Ref.	d1	d2	l1	€
84.881.1250	12.5	22	36	8,82
84.881.1300	13	22	36	8,82
84.881.1350	13.5	22	36	8,82
84.881.1400	14	22	36	8,82
84.881.1450	14.5	22	36	8,82
84.881.1500	15	22	36	8,82
84.881.1550	15.5	26	36	11,08
84.881.1600	16	26	36	11,08
84.881.1650	16.5	26	36	11,08
84.881.3200	32	48	56	30,70





> 88.152 INTERNATIONAL TOOLS

NL ECO PRO Boorklem
FR Étau machine ECO PRO
ES Mordaza para taladros ECO PRO
DE ECO PRO Bohrschraubstock
EN ECO PRO Drilling Machine Vise

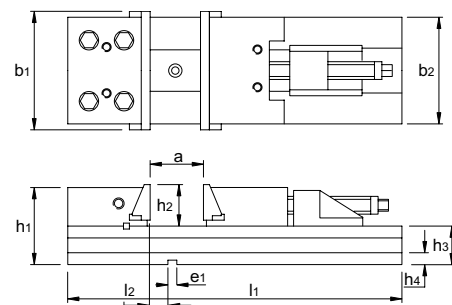

ECO PRO

Ref.	b1	b2	b3	a max	l1	l2	h1	h2	e1	€
88.152.0085	85	143	105	70	157	238	54	30	12,5	94,75
88.152.0100	100	152	126	95	176	280	60	30	14	109,70

Ref.	b1	b2	b3	a max	l1	l2	h1	h2	e1	€
88.152.0120	120	178	149	105	220	340	60	35	14	164,60
88.152.0150	150	195	166	140	229	380	77	39	15	244,40

> 88.440 TORAX

NL Precisie Machinespanklem
FR Étau de fraisage de précision
ES Mordaza mecánica de precisión
DE Präzisionsschraubstöcke
EN Precision Compact Vise



Ref.	b1	b2	l1	l2	h1	h2	h3	h4	a max	e1 N6	Max. daN	€
88.440.1027	100	75	270	25.61	65	30	35	15	100	16	3000	809,00
88.440.1234	125	95	345	25.61	80	40	40	15	150	16	3000	943,00
88.440.1542	150	125	420	25.61	100	50	50	20	200	16	5000	1.004,00
88.440.1552	150	125	520	25.61	100	50	50	20	300	16	5000	1.222,00
88.440.1745	175	145	455	25.61	118	60	58	20	200	16	6000	1.377,00
88.440.1755	175	145	555	25.61	118	60	58	20	300	16	6000	1.456,00
88.440.1765	175	145	655	25.61	118	60	58	20	400	16	6000	1.629,00
88.440.1775	175	145	755	25.61	118	60	58	20	500	16	6000	1.946,00
88.440.2059	200	170	595	25.61	135	65	70	26	300	16	10000	2.105,00
88.440.2069	200	170	695	25.61	135	65	70	26	400	16	10000	2.423,00
88.440.2079	200	170	795	25.61	135	65	70	26	500	16	10000	2.915,00
88.440.3063	300	195	635	25.61	158	80	78	26	300	16	12000	2.997,00
88.440.3073	300	195	735	25.61	158	80	78	26	400	16	12000	3.079,00
88.440.3083	300	195	835	25.61	158	80	78	26	500	16	12000	3.319,00
88.440.3093	300	195	935	25.61	158	80	78	26	600	16	12000	3.648,00



NL Opspannen product in precisieklem
FR Serrer une pièce dans un étau de précision
ES Sujetar un producto en una mordaza de precisión
DE Einspannen von Werkstücken im präzision Machineschraubstock
EN Clamping material in precision vise

Watch me

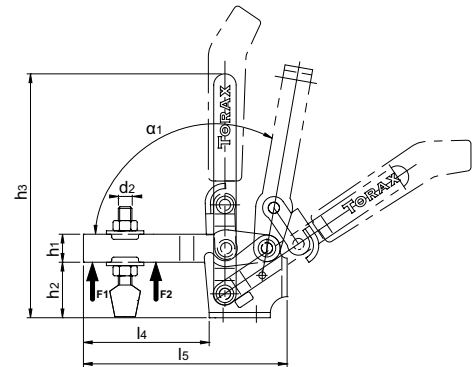
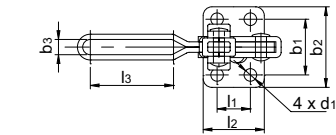


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> 88.900

TORAX

NL Verticale Snelspanklem, met horizontale voet
 FR Sauterelle verticale, à pied horizontal
 ES Grapas Rápidas vertical, con base horizontal
 DE Vertikale Spannklemme, mit waagrechtem Fuß
 EN Vertical Clamp, with horizontal foot

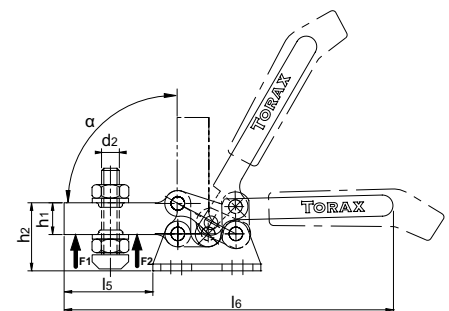
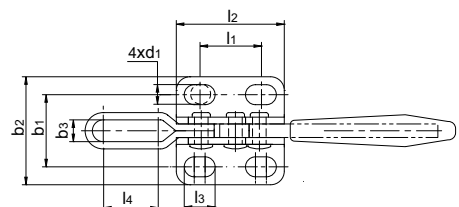


Ref.	Nr.	b1	l1	d1	b2	l2	b3	h1	h2	h3	l3	l4	l5	α1	F1	F2	d2	€
88.900.0000	Gr. 0	23.8	15.9	4.4	33.3	25.4	5	8	18.8	76.1	17.5	26	54.2	100°	0.5	0.7	M4 x 25	16,68
88.900.0100	Gr. 1	27	12.7	5.2	39.7	25.4	6.4	9.8	22.7	97.3	16	33	64	100°	0.8	1.1	M6 x 44	18,12
88.900.0300	Gr. 3	31.8	19	7.2	46	34.9	8.7	16	31.8	140	47.6	71.4	116	100°	1.4	2.5	M8 x 63	25,35
88.900.0400	Gr. 4	45.3	31.8	8.7	64.3	49.2	11	19	44	202	49.2	85.1	140.9	105°	2	3	M10 x 85	37,70
88.900.0500	Gr. 5	45.2	31.8	8.7	64.2	50.8	13.4	23	51	225	79.4	125.4	176.2	100° - 135°	3	5	M12 x 100	60,90
88.900.0600	Gr. 6	69.8	50.8	12.3	95.2	76.2	16.7	32	82.6	305	79.4	153	229.2	100° - 140°	3.5	5.5	M16 x 150	79,00

> 88.910

TORAX

NL Horizontale Snelspanklem, met horizontale voet
 FR Sauterelle horizontale, à pied horizontal
 ES Grapas Rápidas horizontal, con base horizontal
 DE Horizontaler Spannklemme, mit waagrechtem Fuß
 EN Horizontal Clamp, with horizontal foot

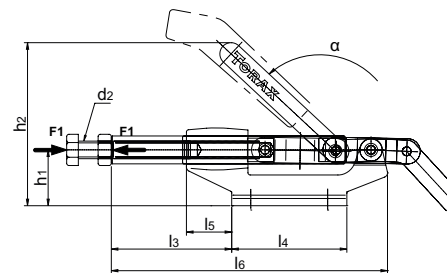
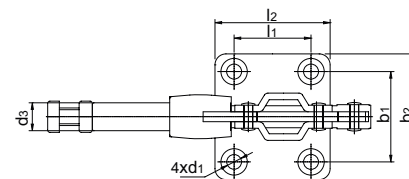


Ref.	Nr.	b1	l1	b2	l2	l3	b3	h1	h2	l4	l5	l6	α1	F1	F2	d1	d2	€
88.910.0000	Gr. 0	15.9	13.5	23.8	23.8	6.8	4.8	7	15	11	19.6	77	90°	0.25	0.4	4.4	M4 x 25	14,48
88.910.0200	Gr. 2	22	27	36	37	6	7.4	12.7	38.1	35	56.2	142	85°	1	1.2	5.2	M6 x 44	21,03
88.910.0300	Gr. 3	22.2	23.1	35	38	9	8.7	12.7	47.6	44	70	168	90°	1.8	2.5	6.7	M8 x 63	25,35
88.910.0500	Gr. 5	41.3	41.3	57.2	57.1		11	19	63.5	78	107	292	85°	3	5	8.3	M10 x 85	37,70



> 88.928

- NL** Schuifstang Snelspanklem, met voet, zware uitvoering
FR Sauterelle à tige coulissante, à pied, version extra lourde
ES Grapas Rápidas Barra corredera, con base, versión macizo
DE Spannklemme mit Schiebestange, mit Fuß, schwere Ausführung
EN Clamp Telescopic arm, with foot, heavy duty version



Ref.	Nr.	b1	l1	b2	l2	h1	h2	d1	d3	l3	l4	l5	l6	$\alpha 1$	F1	d2	€
88.928.0300	Gr. 3	41.1	35	57.2	52.4	25.4	74.2	6.7	12.7	54.8	52.4	20.6	125	190°	4	M8 x 1,25	43,50
88.928.0500	Gr. 5	41.1	41.1	57.2	58.8	31.8	93.5	8.3	16	81	58.8	31.8	163	185°	10	M10 x 1,5	60,90

> 90.105 Phantom

- NL Universal Snijolie EP (Extreme Pressure), chloor- en silicoonvrij, op plantaardige basis
 FR Huile de coupe Universal EP (Haute Pression), sans chlore, à base d'huile végétale
 ES Aceite de corte Universal EP (Alta Presión), sin cloro, base vegetal
 DE Universal Schneidöl EP (Hochdruck), Chlor- und Silikonfrei, auf pflanzlicher Basis
 EN Universal Cutting oil EP (Extreme Pressure), chlorine-free, vegetable based



NIEUW NOUVEAU NUEVO NEU



Ref.	Contents	€
90.105.0250	250 ml	17,16

Ref.	Contents	€
90.105.0251	Box with 10 pcs	142,55

Ref.	Contents	€

> 90.110 Phantom

- NL Universal Snijolie EP (Extreme Pressure), chloor- en silicoonvrij, op mineraaloliebasis
 FR Huile de coupe Universal EP (Haute Pression), sans chlore, à base d'huile minérale
 ES Aceite de corte Universal EP (Alta Presión), sin cloro, base de aceite mineral
 DE Universal Schneidöl EP (Hochdruck), Chlor- und Silikonfrei, auf Mineralölbasis
 EN Universal Cutting oil EP (Extreme Pressure), chlorine-free, mineral oil based



Ref.	Contents	€
90.110.0250	250 ml	20,00
90.110.0251	Box with 10 pcs	166,20
90.110.5005	5 l	133,25

Ref.	Contents	€
90.110.5010	10 l	230,50
90.110.5025	25 l	545,00
90.110.5060	60 l	1.185,00

Ref.	Contents	€
90.110.5200	200 l	3.372,00

> 90.130 Phantom

- NL Heavy Duty Snijolie EP (Extreme Pressure), chloor- en silicoonvrij, op mineraaloliebasis
 FR Huile de coupe Heavy Duty EP (Haute Pression), sans chlore, à base d'huile minérale
 ES Aceite de corte Heavy Duty EP (Alta Presión), sin cloro, base de aceite mineral
 DE Heavy Duty Schneidöl EP (Hochdruck), Chlor- und Silikonfrei, auf Mineralölbasis
 EN Heavy Duty Cutting oil EP (Extreme Pressure), chlorine-free, mineral oil based



Ref.	Contents	€
90.130.0250	250 ml	22,67
90.130.0251	Box with 10 pcs	189,35
90.130.5005	5 l	161,70

Ref.	Contents	€
90.130.5010	10 l	256,00
90.130.5025	25 l	692,00
90.130.5060	60 l	1.452,00

Ref.	Contents	€
90.130.5200	200 l	4.223,00

> 90.140 Phantom

- NL Universal Snijolie spray EP (Extreme Pressure), chloor- en silicoonvrij, op plantaardige basis
 FR Universal Huile de coupe spray EP (Haute Pression), sans chlore, à base d'huile végétale
 ES Universal Aceite de corte pulverizador EP (Alta Presión), sin cloro, base vegetal
 DE Universal Schneidöl Spray EP (Extreme Pressure), Chlor- und Silikonfrei, auf pflanzlicher Basis
 EN Universal Cutting oil spray EP (Extreme Pressure), chlorine-free, vegetable based



Ref.	Contents	€
90.140.0400	400 ml	20,00

Ref.	Contents	€
90.140.0401	12 x 400 ml	203,05

Ref.	Contents	€



> 90.145 Phantom

- NL Universal Snijolie-schuim, chloor-, zwavel- en mineraalolievrij
 FR Huile de coupe Universal sous forme de mousse, sans chlore, ni soufre ni huile minérale
 ES Aceite de corte Universal en espuma, sin cloro, azufre y aceite mineral
 DE Universal Schneidöl-Schaum, Chlor-, Schwefel und Mineralölfrei
 EN Universal Cutting oil foam, chlorine- and mineral oil free



UNI

Ref.	Contents	€
90.145.0400	400 ml	43,30

Ref.	Contents	€
90.145.0401	12 x 400 ml	408,00

Ref.	Contents	€

> 90.150 Phantom

- NL Extreme Snijpasta, chloor- en siliconenvrij
 FR Pâte de coupe Extrême, sans chlore
 ES Pasta de corte Extreme, sin cloro
 DE Hochleistungs-Schneidpaste, Chlor- und Silikonfrei
 EN Extreme Cutting paste, chlorine-free



INOX

Ref.	Contents	€
90.150.0250	250 gr.	28,00
90.150.0251	10 x 250 gr.	257,00

Ref.	Contents	€
90.150.2500	2,5 kg.	144,25
90.150.5000	5 kg.	227,35

Ref.	Contents	€

> 90.170 Phantom

- NL Snijwas EP (Extreme Pressure), chloorvrij
 FR Pâte de coupe EP (Haute Pression), sans chlore
 ES Cera de corte EP (Alta Presión), sin cloro
 DE Wachsstift EP (Extreme Pressure), chlorfrei
 EN Cutting wax EP (Extreme Pressure), chlorine free



UNI

Ref.	Contents	€
90.170.0300	300 gr	39,50

Ref.	Contents	€
90.170.0301	50 x 300 gr	1.750,00

Ref.	Contents	€



- NL Keuzehulp snijolie en smeermiddelen
 FR Aide à la sélection des huiles de coupe et lubrifiants
 ES Ayuda para la selección de aceites de corte y lubricantes
 DE Auswahlhilfe Schneidöl und Schmiermittel
 EN Selection Guide for Cutting Oils and Lubricants



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> 90.180 Phantom

- NL Micro Doseer Vloeistof EP (Extreme Pressure), chloor- en mineraal-olievrij, op plantaardige basis
 FR Huile pour micro lubrification EP (Haute Pression), sans chlore et sans huile minérale, à base d'huile végétale
 ES Líquido microdosificador EP (Alta Presión), exento de cloro y aceites minerales, base vegetal
 DE Mikro-dosierflüssigkeit EP (Extreme Pressure), Chlor- und Mineralölfreier, auf pflanzlicher Basis
 EN Micro dosing liquid EP (Extreme Pressure), chlorine- and mineral oil free, vegetable based



UNI



Ref.	Contents	€
90.180.5005	5 l	130,00

Ref.	Contents	€

Ref.	Contents	€

> 90.210 **Phantom**

- NL** Multi Cooling Concentrate, chloor- en silicoonvrij, secundair aminevrij en nitrietvrij
FR Multi Cooling Concentrate, sans chlore, exempt d'amine secondaire et de nitrite
ES Multi Cooling Concentrate, sin cloro, sin amina secundaria y sin nitritos
DE Hochleistungs- Kühlschmier- Konzentrat, Chlor- und Silikonfrei, sekundäre Amin-frei und Nitrit-frei
EN Multi Cooling Concentrate, chlorine-free, secondary amine-free and nitrite-free



UNI

Ref.	Contents	€	Ref.	Contents	€	Ref.	Contents	€
90.210.0050	5 l	99,55						



1 SC



1 HSS(E)



2



3 SC



3 HSS-E



4



5



6



7



8

ETC.

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