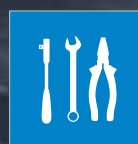
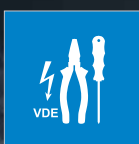
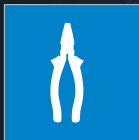
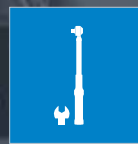
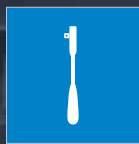
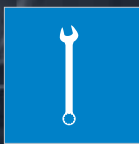




The MATADOR.

High quality tools and more since 1900.

Be a MATADOR.





Dear friends of
MATADOR,

finally we got it - our new M101.

On around 450 pages we present our „world of hand tools“ with many pictures and descriptions, technical details and practical background information.

Starting 113 years ago on two water-powered forging hammers MATADOR today is one of the leading manufacturers of high quality tightening tools „around the screw“.

Although meanwhile more than 6.000 different tools belong to the MATADOR range, it is not our objective to provide you also the fifth version of a standard tool. We at MATADOR keep an eye on the essentials and with our clear focus on quality the professional user will find only tools one really needs and that convince through their quality.

People in more than 90 countries worldwide work with MATADOR.
True to our motto:

Be a MATADOR.

With best wishes

Peter Kissling

The new MATADOR article code:

After 113 years we decided to do something different: We have restructured our article codes in order to give you a better orientation: 8 digits and if possible a hint for the particular size.
For example:

Double Open Ended Spanners, SW 6 x 7 mm

0100 0607



The first 4 digits show the product group, the last 4 digits illustrate the size of a tool (in most cases).



Content.




















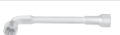





Introduction	1 - 27
1. Spanners and Wrenches	28 - 67
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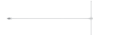




















In order to keep track.

Quick product finder.






















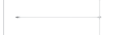







Spanners and wrenches.

		Sizes	Art. Code	Page
		4 – 60 mm 1/4 – 1.1/4"	0100	32 33
	6 12	6 – 34 mm 1/4 – 1.1/4"	0185	34 35
	6 12	6 – 80 mm 1/4 – 2"	0190	36 37
	12 12	6 – 60 mm 1/4 – 1.13/16"	0200	38 39
	6	4 – 110 mm	0130	40
	6	6 – 60 mm	0132	41
	6 6	5 – 11 mm	0145	42
	6	0 – 53 mm 0 – 2.1/16"	0591	43
	6 12	6 – 32 mm	0183 0189	45 46
	12 12	10, 13, 17, 19 mm	0184	47
	6 12	8 – 19 mm VA	0186	49
	6	22 – 220 mm 1 – 6"	0175	50 52
	12	22 – 105 mm 7/8 – 4.1/8"	0280	56 57
	12	13 – 95 mm 13/16 – 3.1/8"	0285	59
	12 12	10 – 22 mm	0188	60
	12 12	6 – 32	0220	61
	6 6	E 6 – 24	0221	61
	6 6	8 – 41 mm	0250 0251	62
	6 12	8 – 32 mm	0320	63
	6 6	6 – 46 mm	0380	64
	6 6	8 – 22 mm	0430	65
	6	5 – 14 mm	0670 0671	65 66
	6	5.5-14 mm	0671	66
	6 6	24 – 33 mm	0340	67

Ratchets and sockets.

		Sizes	Art. Code	Page
6.3 mm 1/4"				
			2061	74
			2062	75
			2063	76
			2064	77
			2065	77
			2068	77
			2073	77
			2083	78
			2084	78
			2074	78
	6	4 – 14 mm 1/8 – 9/16"	2075	79
	6	4 – 14 mm	2081	80
	6	4 – 14 mm	2081	80
	E4 – E11		2090	80
	4 – 7 mm		2076	81
	PH 1 – 3		2077	81
	PZ 1 – 3		2077	81
	3 – 10 mm		2078	82
	T6 – T40		2092	82
	TR8 – TR40		2093	83
	410 mm		2099	83
			2110 2115 2135 2136 2140 2155	84 – 87
10 mm 3/8"				
			3061	88
			3064	88
			2065	89
			3068	89
			3074	89
	410 mm		3099	90
			3082 3083	90
			3084 4084	90

Ratchets and sockets.

		Sizes	Art. Code	Page
	6	6 – 22 mm 1/4 – 5/16"	3075	91
	12	6 – 22 mm 11/32 – 7/8"	3075	91
	E8 – E14		3090	92
	10 – 19 mm		3093	92
	7 – 9 mm		3076	92
	PH 1 – 3		3077	93
	4 – 11 mm		3078	93
	M5 – M10		3079	93
	T15 – T50		3092	94
			3092 3115 3125	94 – 95
12.5 mm 1/2"				
			4061	97
			4061	98
			4061	99
			4062	98
			4063	98
			4064	100
			4065 4066	100
			4068	101
			4070	101
			4072	101
			4074	101
			4082	102
			4083	102
			4084	102
	410 mm		4099	102
	6 12	8 – 36 mm 3/8 – 1.1/4"	4075	103
	6	10 – 32 mm	4081	104
	12	10 – 36 mm	4081	106



Ratchets and sockets.

		Sizes	Art. Code	Page
		E10 – E24	4090	105
		8 – 12 mm	4076	105
		PH 2 – 4	4077	105
		4 – 19 mm 3/6 – 9/16"	4078	106
		M5 – M16	4079	107
		M5 – M16	4080	108
		T20 – T80	4092	109
		TR20 – TR80	4093	109
			4114 4115 4118 4135 4145 4150 4181 4192	110 - 115
			5060	116
			5062	116
			5064	117
			5065	117
			5068	117
			5082	117
			5083	118
		19 – 60 mm 7/8 – 2.1/4"	5075	118
			5142 5143	119
			6060	120
			6064	120
			6065	120
			6082	120
		36 – 80 mm	6075	121
			6144	121
		19 x 22 mm	6200	121

Torque control.

		Sizes	Art. Code	Page
	$\pm 5\%$	0,1 – 6 N-m	6170	130
		0,1 – 6 N-m	6170	131
	$\pm 6\%$	1 – 12 N-m	6171	131
	$\pm 2\%$	0 – 2.800 N-m	6169	129
	$\pm 4\%$	10 – 350 N-m	6172	132
	$\pm 4\%$	5 – 2.000 N-m	6174	133
	$\pm 3\%$	1 - 1.000 N-m	6176	136
	$\pm 3\%$	5 - 420 N-m	6185	136
	$\pm 4\%$	160 – 800 N-m	6177	138
			6181	139
	$\pm 1\%$	5 – 350 N-m	6178	142
	$\pm 1\%$	10 – 2000 N-m	6180	143
		9 x 12 14 x 18	6186	145
		9 x 12 14 x 18	6178	145
		9 x 12 9 x 12	6187	145
		9 x 12 14 x 18	6188	145
		9 x 12 14 x 18	6189	146
		7 – 41 mm	6190	146
		7 – 41 mm	6191	147
		10 – 22 mm	6192	147
		5 – 100 N-m	6190 6191 6194	148 - 149
		1.500 / 2.700 N-m	6182	151
		3.500 N-m	6182	152
		4.500 - 9.500 N-m	6182	153
		3.200 - 12.000 N-m	6183	155












Pneumatic tools.

		Sizes	Art. Code	Page
	$12,5 \text{ mm}$ 25 mm 20 mm	$1/2$ 1 $3/4$	7000	161
	25 mm	1	7000	162
	$6,3 \text{ mm}$ 10 mm $12,5 \text{ mm}$	$1/4$ $3/8$ $1/2$	7001	164
			7002	166
			7004	166
			7004	167
			7007	168
			7008	169
			7005 7100 7110 7120 7121	170 - 175
	$6,3 \text{ mm}$	$1/4$		
		6	7283 7275	177
	10 mm	$3/8$		
		6	7365 7375	178
	$12,5 \text{ mm}$	$1/2$		
		6 	7458 7465 7475 7481 7482 7483 7478 7479 7490 7492	179 - 184
	20 mm	$3/4$		
		6 	7558 7565 7575 7581 7582 7578 7592	185 - 188
		6 	7658 7665 7681 7682 7683 7675	189 - 191
	40 mm 63 mm	$1,2$ $2,2$		
		6 	7775 7781 7875	191 - 193







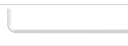
























In order to keep track.

Quick product finder.






























Pneumatic tools.

				
	Sizes	Art. Code	Page	
	165 – 205 mm	0500	197 207	
	160 mm	0520	198	
	160 mm	0525	198	
	170 – 205 mm	0585	198	
	205 mm	0586	198	
	145 – 180 mm	0532	199	
	180 – 240 mm	0530	199	
	160 – 200 mm	0535	200	
	470 – 900 mm	0527	201	
	220 – 280 mm	0544	201	
	160 – 260 mm	0545	201	
	160 mm	0576	202	
	165 mm	0575	202	
	190 mm	0572	203	
	160 mm	0829	203	
	120 mm	0560	203	
	115 mm	0561	203	
	180 – 400 mm	0556	204	
	250 – 400 mm	0557	204	
	240 – 600 mm	0596	205	
	340 – 760 mm	0597	205	
	200 – 900 mm	0598	206	
	250 mm	0558	206	
	A0 – A4 A01 – A41	0578 0580	208	
	J1 – J4 J11 – J41	0582 0584	209	
	175 – 300 mm	0588	210	
	175 – 300 mm	0588	210	
	275 mm	0589	210	
	L, LL, T, J, JJ, W	240 mm	0587	211
	0 – 100 mm	0589	211	

Pliers.

				
	Sizes	Art. Code	Page	
	1,5 – 36 mm 1/16 – 7/8"	0440 0442	215 216	
	2 – 10 mm	0440	217 218	
	2 – 18 mm 1/8 – 1/2"	0441	219	
	1,5 – 19 mm 1/16 – 1/2"	0442	212	
	2 – 10 mm	0445	224	
	3 – 6 mm	0672	234	
	5 – 8 mm	0696	238	
	2,5 – 14 mm	0605 0615 0660 0680	227	
	4 – 8 mm	0627	229	
	3,5 – 14 mm	0600	230	
	4 – 6,5 mm	0640	229	
	5,5 – 12 mm	0652	231	
	0,8 – 5,5 mm	0672	234	
	1,2 x 6,0 mm	0694	235	
	1 – 3 mm	0661	236	
	8 – 12 mm	0696	238	
	6,5 mm	0969	243	
	PH 0 – PH 4	0655 0658 0680	228	
	PH 1 – PH 4	0628	229	
	PH 1 – PH 2	0641	229	
	PH 1 – PH 4	0650	231	
	PH 1 – PH 4	0653	231	
	PH 1 – PH 2	0672	234	
	PH 2	0694	235	
	PH 00 – PH 1	0662	236	
	PH 2 – PH 4	0696	238	
	PH 2 – PH 3	0969	243	
	PZ 0 – PZ 3	0657	228	
	PZ 1 – PZ 2	0672	234	

Screwdriver.

				
	Sizes	Art. Code	Page	
	T6 – T40	0443 0444	222	
	T9 – T40	0443	222	
	T10 – T50	0446	225	
	T8 – T40	0620	229	
	T10 – T40	0672	234	
	T5 – T15	0663	236	
	T40 – T55	0696	238	
	T20 – T40	0969	243	
				
				
	6.3 mm 10 mm 12.5 mm	1/4 3/8 1/2	2085 3085 4085	239
		1/4 3/8	7040	239
		1/4 3/8	7048	239
	3 – 10 mm		7028	241
	4 – 12 mm		7026	240
	PH 1 – PH 4		7027	240
	PZ 1 – PZ 4		7027	241
	T6 – T40		7032	242
	T10 – T55		7033	243
	M4 – M14		7029	241
	M5 – M16		7030	242
			7040	243
				
			7050	244
				
			7052	245



Miscellaneous tools.

Sizes		Art. Code	Page
	200 – 2000 g	0705	249
	1000 – 2000 g	0707	250
	1/2 – 2 lbs	0708	250
	1/2 – 2 lbs	0710	250
	3 – 10 kg	0711	250
	54 – 90 mm	0738	251
	22 – 50 mm	0700	251
	25 – 80 mm	0702	253
	A – Z 0 – 9	0712	254
	105 – 190 mm 1/16 – 1.3/16"	0713	255
	125 – 300 mm	0714	257
	125 – 250 mm	0715	258
	120 – 150 mm	0716	259
	120 mm	0717	259
	150 mm	0718	260
	225 – 290 mm	0718	261
	150 mm	0718	263
	100 – 150 mm 100 – 175 mm	0815 0818	264
	160 – 1000 mm	0830 0832 0833 0834	266 – 267
	150 mm 20 – 220 mm 20 – 350 mm 20 – 200 mm 20 – 200 mm 100, 200, 250 mm	0722 0724 0726 0726 0726	270 271
	150 mm 20 – 220 mm 50 – 400 mm 20 – 200 mm	0723 0725 0725 0725	272 – 273
	50 – 70 mm 45 – 205 mm 18 – 40 mm 18 – 45 mm	0728 0727 0729 0731	274 – 275
	170 mm	0826	276
	200 mm	0825	277
	140 mm	0827	277
	205 mm	0743	277
	140 mm	0744	278

Miscellaneous tools.

Sizes		Art. Code	Page
	250 mm	0745	278
	250 mm	0747	299
	5 – 35 mm	0810	280
	5 – 35 mm	0813	280
	3 – 16 mm	0814	281
		0835	281
		2000	281
	bis M24	0820	291
	440 mm	0786	282
	250mm	0787	283
	150 – 250 mm	0775	283
		0779	284
		0782	284
		0780	284
	0,5 - 13 mm	0762	285
		0763	286
		0765	286
		0766	287
		0764	288
	M3 – M46	0771	288
		0774	289
		0774	290

Miscellaneous tools.

Sizes		Art. Code	Page
	M3 – M12	0772	290
	260 – 380 mm	0788	292
	260 – 380 mm	0789	292
	270 – 380 mm	0790	293
	250 mm	0840	293
	120 mm	0841	293
		0760	294
	3 m 5 m	0798	294
	200 cm 300 cm	0798	294
	200 mm	0798	295
	100 mm 200 mm 300 mm	0798	295
	400 mm	0798	295
	150 mm	0798	295
		0798	296
		0799	296
		0799	296
	270 g	0784	297
	500 – 3000 g	0784	297
		0785	297
	65 x 43 mm	0876	297
	Ø 150 mm	0878	297
		0877	298
		0792	299
	300 ccm	0793	299
		0793	299
	500 ccm	0794	300
	50 – 125 ml	8174	300
	500 ml	8176	301
		9060	302 303
	138 mm	0885	305
	105 mm	0886	305
	0 – mm	0887	305
	355 mm	0888	306
	220 mm	0889	307

In order to keep track.

Quick product finder.

Automotive tools.

		📏	📄	📄
		Sizes	Art. Code	Page
		180 – 330 mm	0732	311
		930 – 1600 g	0734	312
		550 – 1000 g	0735	312
		105 mm	0733	313
		8 12	0736	313
		200 mm	0546	314
		200 mm	0549	314
		160 mm	0842	314
		350 mm	0740	314
		280 mm	0741	315
		240 mm	0846	315
		72 mm	0860	315
		66	0862	315
		250 mm	0872	316
		160 mm	0843	316
		130 mm	0858	317
		110 g	0858	317
		0,8 mm	0858	317
		25 mm 38 mm	0858	318
		125 mm	0858	319
		170 mm	0858	319
		240 mm	0858	320
		310 ml 600 ml	0859	320
		150 - 650	0863	320
		324 – 390 mm	0864 0865	321
		24 x 27 mm - 28 x 33	0340	322
		500 – 600 mm	0342	322
		17 x 19 x 21 x 1/2"	0350	322
		19 – 38 mm 3/4 – 1.1/2"	0355	323
		24 – 32 mm	0356	323
		17, 19, 21 mm	7481	323
		240 mm	0573	324
		160 mm	0585	324
		400 – 600 mm	0753	324
		400 – 600 mm	0754	325
		400 – 500 mm	0757 0758	325
			0759	325

Automotive tools.












































		📏	📄	📄
		Sizes	Art. Code	Page
		200 – 400 mm	0759	325
		10 x 11 mm 12 x 13 mm	0250	326
		14 x 17 mm 17 x 19 mm	0251	326
		10 mm	0255	326
		225 mm	0852	326
		240 mm	0854	326
		225 mm	0852	326
		265 mm	0854	326
		300 mm	0563	327
		110 – 180 mm	0563	327
		48 mm	4078	327
		255 mm	0808	328
		6 – 12 mm	0548	328
		8 – 18 mm	0548	329
		18 – 52 mm	0548	329
		0 – 45 mm	0551	329
		250 mm	0418	330
		16 x 21 mm 28 x 34 mm	0419	330
		50 – 140 mm	0565	330
		40 – 175 mm	0567	330
			0633	331
		120 mm	0633	331
		120 mm	0783	331
			0806	331
		270 mm	0266	332
		max 240 mm	0425 0426	332
		80 – 130 mm 65 – 140 mm 80 – 150 mm	0428	333

Automotive tools.







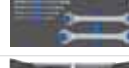


		📏	📄	📄
		Sizes	Art. Code	Page
			0429	333
		16 / 20,8 mm (5/8 - 13/16")	0366	334
		16 / 20,8 mm (5/8 - 13/16")	0366	334
		16 mm / 5/8"	0367	334
		16 mm / 5/8"	0372	335
		205 mm	0568	335
		150 mm	0781	335
		6 3/8 10 mm	3081	336
		6 1/2 12,5 mm	3096	336
		6 1/2 12,5 mm	4081	336
		12 1/2	4081	337
		1/2 60 mm	7053	337
		1/2 120 mm	7053	337
		1/2 60 mm	7053	337
















VDE tools.

				
		Sizes	Art. Code	Page
		6 – 32 mm	0131	341
			0160	341
		3 – 12 mm	0448	341
		4 – 8 mm	0449	342
		12,5 mm 1/2"	4161	342
		12,5 mm 1/2"	4165	342
		10 – 32 mm 3/8" – 1,1/4"	4175	342
		165 – 205 mm	0500	343
		160 mm	0520	343
		160 mm	0525	343
		160 – 180 mm	0532	343
		160 mm	0576	344
		170 – 205 mm	0585	344
		205 mm	0586	344
		180 – 400 mm	0556	344
		210 mm	0559	345
		160 mm	0829	345
		165 – 320 mm	0616	346
		PH0 – PH3	0656	346
		140 – 195 mm	0635	346
		5 – 17 mm	0670	347
		140 mm	0744	347
		180 mm	0826	347
		145 mm	0875	348
		170 mm	0876	348
			0879	348
			8110	349
				349

Trolleys and Modules.

				
			Art. Code	Page
Quadro			8162	356 – 357
Ration			8163	358 – 359
Vario			8164	360 – 363
Module				364 – 404
				405
				406 – 411

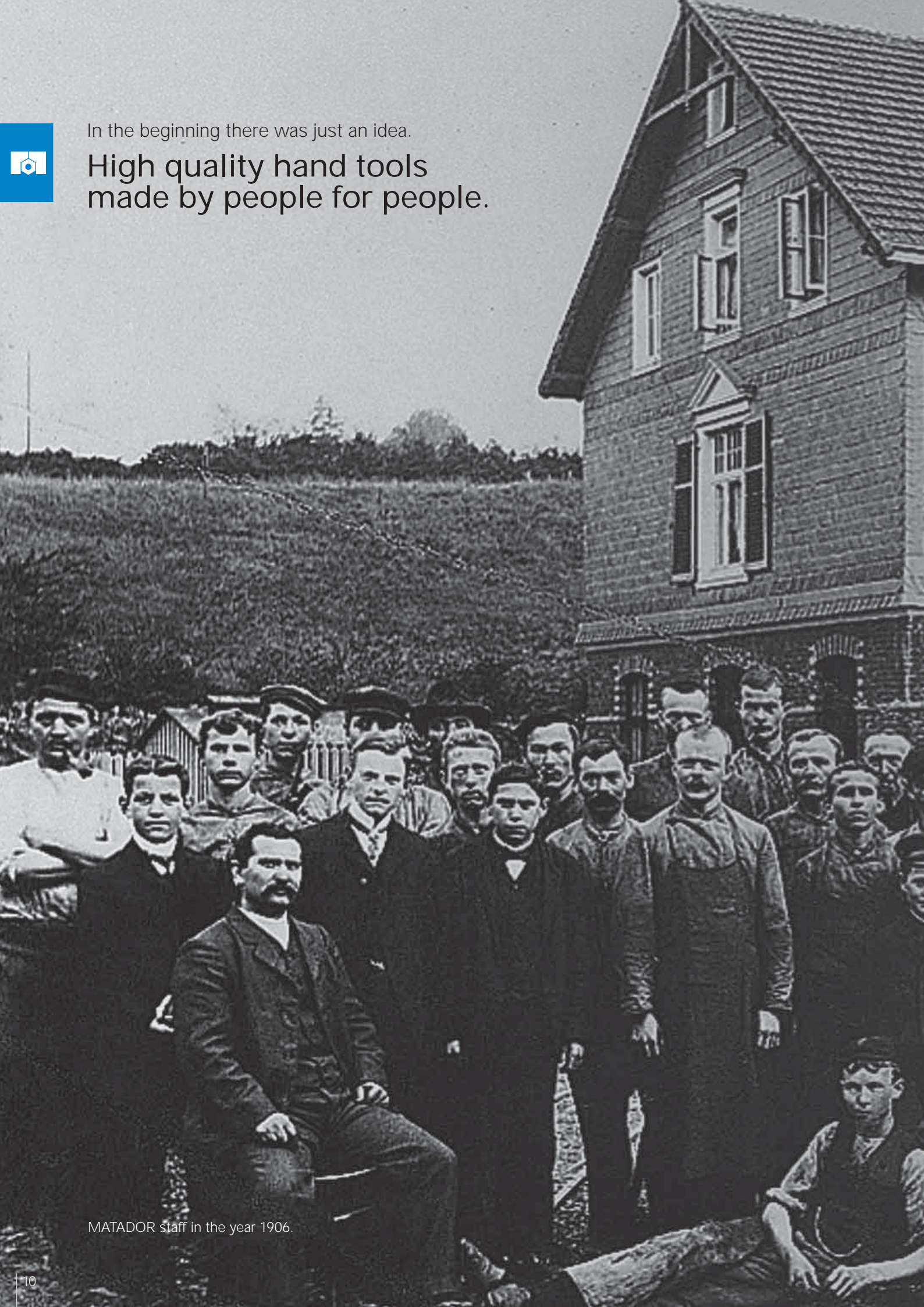
Tools cases / Assortments.

				
			Art. Code	Page
			8110	415
			8112	415
			8114	416
			8115	416
			8120	417
			8125	417
			8130	418
			8135	419
			8170	422
			8175	423



In the beginning there was just an idea.

High quality hand tools
made by people for people.



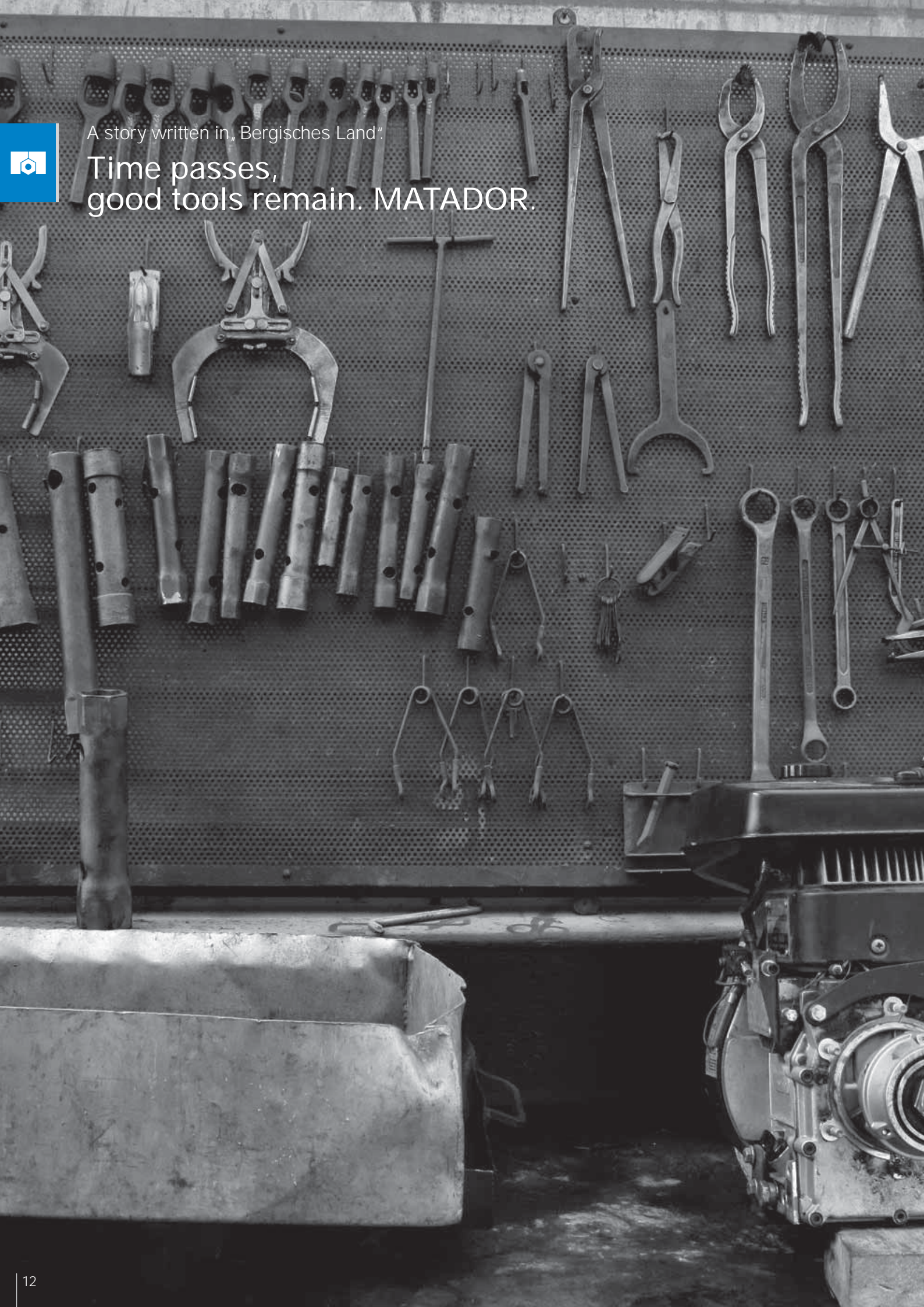
MATADOR staff in the year 1906.





A story written in „Bergisches Land“.

Time passes,
good tools remain. MATADOR.



MATADOR in the course of time.

Retrospect.



1900
Foundation by Mr. Heinrich Kissling and Mr. Heiner Schumacher as „Schumacher & Kissling KG“.



1919
Registration of the brand name „MATADOR“ and entry into the trade register.



1936
Introduction of MATADOR socket sets as one of the first manufacturers.



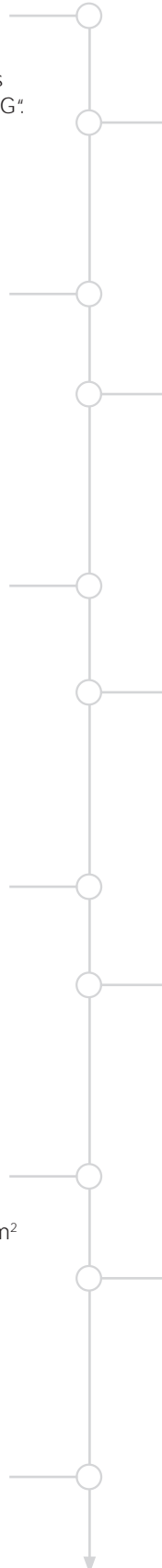
1952
International expansion and exports into more than 50 countries.



1970
Enlargement of the production area to 4.000 m² and massive expansion of the production capacities.



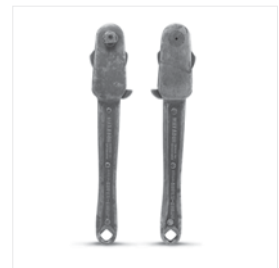
2013
Manufacturing and distribution of more than 6,000 hand tools, „around the screw“ in more than 90 countries.



1907
Start of production of pliers, hammers and sockets on two water-powered forging hammers.



1924
Introduction of the first reversible ratchet with lever and patent registration in Germany as „Deutsches Reich Gebrauchsmuster (D.R.G.M.)“.



1943
Entire destruction of the production site during the big Remscheid bomb attack. Rebuilding through Mr. Heinrich Kissling at his age of 78 years.



1960
Entrance of Mr. Jürgen Kissling (3rd generation) into the company, numerous investments in forging, hardening and galvanic plant.



2002
Entrance of Mr. Peter Kissling (4th generation) into the company and renaming to MATADOR.





Screw joints hold the world together.

No handicrafts,
no automotive industry,
no space travel without
the good old screw.

And MATADOR has
the right tools for that.

MATADOR's product range.

Our core competence: Tightening tools.



Our products.

MATADOR is one of the leading manufacturers of tightening tools „all around the screw“.

For every nut and bolt there is a suitable spanner. Starting from classic **spanners and sockets** up to precise **torque tools** for controlled tightening, MATADOR provides a broad range of quality tools.

Our range of tightening tools is supplemented by products that **belong to the core of a good tools range** or that are required by certain professional groups (e. g. pliers, screwdrivers, special tools, striking tools, etc.).

Perfectly matched module systems, tool trolleys, tool bags and cases complement the range and provide order.

Depth of our range.

Although meanwhile more than **6,000 different tools** belong to the MATADOR range, it is not our objective to provide you also the fifth version of a standard tool.

We at MATADOR keep an eye on the essentials and with our clear **focus on quality** the professional user will find only tools one really needs and that convince through their quality.

Instead of a diversity of variants it is the depth of our range that counts. Thus at MATADOR the professional user will still find tools also for „exotic“ application where other suppliers quit.

With MATADOR you will find the right tool for every screw application.

Our customers.

MATADOR has been producing quality hand tools since 1900. Our customer is the **professional user** who employs tools professionally and **who knows what he/she wants**.

With concentration on a high depth of our range combined with an approved quality MATADOR is well-established as a **professional brand for industrial customers**. As first supplier MATADOR is listed with almost all big automotive companies (e. g. Volkswagen group, Mercedes-Benz, MAN etc.). For instance **Mercedes-Benz** belongs to the regular customers of MATADOR tools constantly **since 1933**.

Only since the 1990s MATADOR also supplies tools to specialist dealers. So until today MATADOR has maintained a certain **exclusivity**.

Become a customer.
Become a MATADOR.

Be a MATADOR.

Our quality standard.

Tools can be purchased nearly everywhere. Good tools can often only be recognized as such at second glance or after use.

As a **brand manufacturer** MATADOR guarantees the exclusive use of **tested and proven steel alloys** as well as **accurate production on modern machines**.

Our customers can rely on precision measures and on a quality that is suitable for hard everyday workshop requirements.

At our production site in Remscheid in the middle of Germany highly qualified technicians and specialists develop **sophisticated tools for sophisticated customers**.

We know what we do.

Trust us.



MATADOR
Consumer
Products

MATADOR
Industrial
Solutions



MATADOR's product range.

Spanners and sockets. The classics from MATADOR.





Spanners.

The classic spanner still must not be missing in any tools assortment and since more than 100 years MATADOR has been producing them in nearly unchanged form.

For our spanners program we at MATADOR use only **quality tested chrome vanadium steel** which is precisely forged and processed.



As **one of the first manufacturers** already in the 1990s MATADOR introduced the so-called **flanc drive profile** at all ring spanners (, SMART DRIVE*). Through this special profile power is transferred in an ideal way to the flanks of a screw or nut. The edges are effectively prevented from turning round.



Sockets.

Already **beginning of the 1920s** MATADOR developed the **first reversible ratchet with lever** which back then was successfully **patented** as , Deutsches Reich Gebrauchsmuster (DRGM):

Since then MATADOR is considered a leading manufacturer for sockets and ratchet technique which in the meantime has even found use in furniture production.



Sockets provided by MATADOR have the advanced **flanc drive profile on both sides** so that operating tools and screws or nuts are both protected from turning round.

Our proven MATADOR socket sets are equipped with wipeable **soft foam inlays** (, MATADOR FOAM SYSTEM*) in which tools are placed shakeproof and noise reduced.



Torque technique.

Trust is good, torque control is better. Nowadays for nearly **100% of all industrial screw connections controlled** tightening is required. Controlled means with a predefined torque value and/or torque angle.

No matter how exact screw connections have to be tightened MATADOR has the right torque tools for every application.

Starting from simple torque wrenches for semi professional use up to electronic torque/torque angle wrenches - all from a single source.

Click type or dial type. Manual or electronic. From 6,3 (1/4") up to 25 (1") square. **With or without angle function.** From 5% up to 1% deviation tolerance according to DIN EN ISO 6789. And certainly always with calibration certificate.



Pneumatic tools.

There are many pneumatic tools, unfortunately, their quality is often questionable.

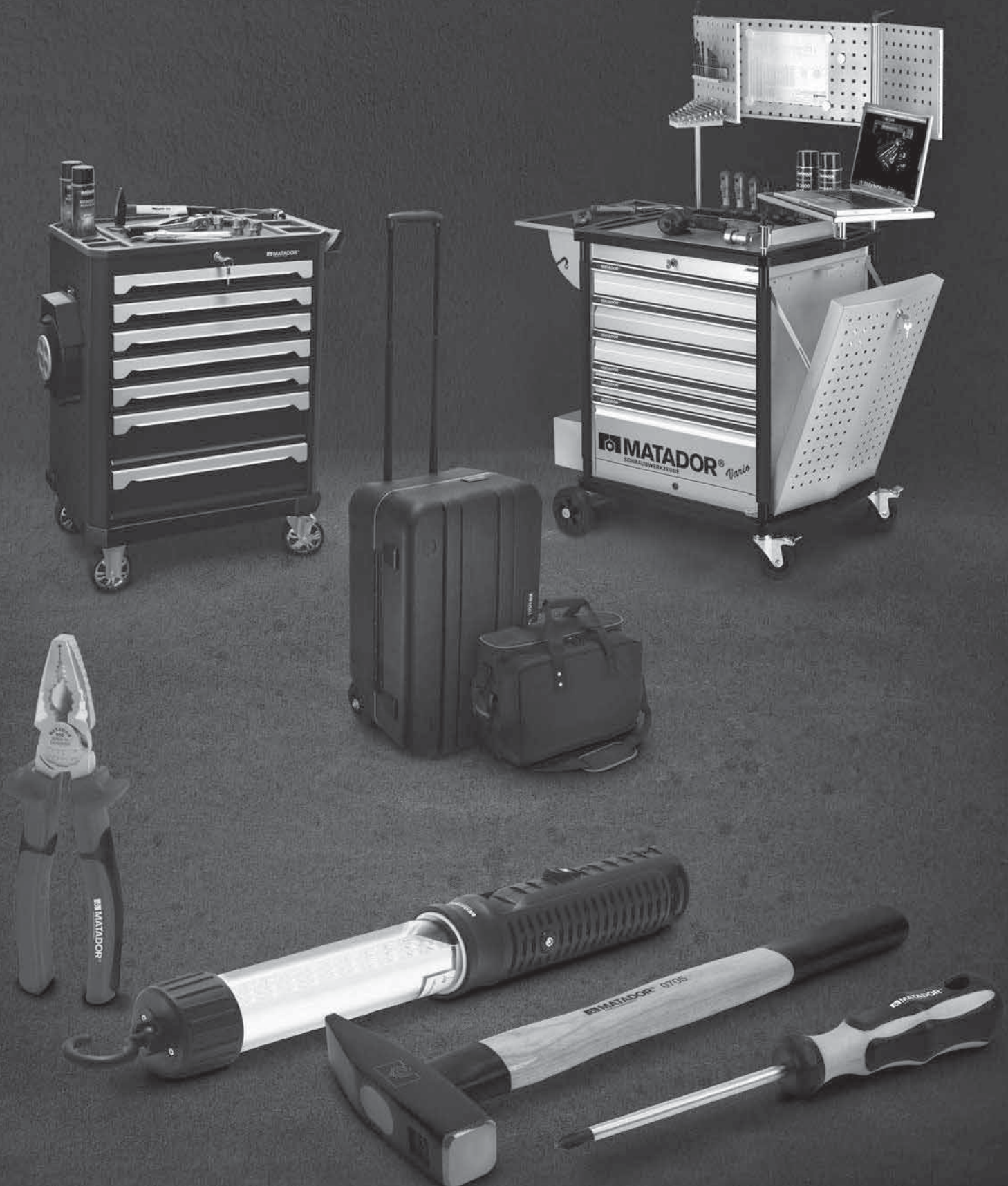
MATADOR pneumatic tools are not only convincing in their outstanding technical features but above all also in their **durable, industrial quality.**

Especially low-noise, extremely lightweight thanks to composite housing, but nevertheless very strong. Thoroughly tested by our technicians they have been found to be really good. And additionally we provide a comprehensive range of impact sockets.



MATADOR Consumer Products.

What else tools we provide.





Pliers.

Each tools assortment must also include good pliers.

MATADOR has a **comprehensive range of cutting pliers** for cutting or pinching off, **gripping pliers** (like the classic water pump pliers) and also **combined pliers** which can be used for cutting purpose as well as for gripping (e. g. combination pliers).

MATADOR pliers are forged from top quality tools steels and processed on modern CNC machines. **Precision cutting edges** that can even cut a hair and strong 2-component handles are MATADOR standard. With their many useful details MATADOR pliers are considered to be **especially innovative**, e.g. MATADOR **combination pliers with integrated ring spanner**.



Screwdrivers / Bits / Hexagon key wrenches.

The matching counterpart to MATADOR tools, all around the screw* are screwdrivers, bits and hexagon key wrenches.

MATADOR screwdrivers are equipped with an especially ergonomically designed 2-component handle which perfectly fits to the heel of the hand and thus allows a **high torque transmission**.

Several kinds of bit boxes (e. g. our innovative **SMARTY-Box*** with fine toothed T-handle reversible ratchet and plug-on screwdriver blades) solve every minor tightening problem and are popular helpers also for DIY.



Miscellaneous tools.

Under „Miscellaneous tools“ MATADOR classifies all tools that cannot be clearly assigned to one of the other categories but that are no less important.

Our core range of **striking tools, LED lamps, threading tools, bench vices** and many other useful supplements contains everything the industrial user needs.

All in the same high MATADOR quality and field-proven since many years.



Tools for special professional sectors.

Automotive tools and **VDE tools** are product groups to which MATA-DOR attaches special importance.

MATADOR is **first supplier** for many **renowned automotive manufacturers** and thus complex special tools made by MATADOR can be found in many garages.

Our catalogue program complements these special tools by some field-proven classics that must not be missing in any car workshop.



Workshop trolleys / workshop equipment.

MATADOR offers its customers almost unlimited flexibility in the field of workshop trolleys and workshop equipment.

As one of the first manufacturers more than 15 years ago MATADOR already introduced its **MATADOR Tool System*** for better organization of tools. Today, MATADOR has **one of the most comprehensive ranges of modules**.

Tool trolleys are available in three different basic versions with 5, 6, 7 or 8 drawers **in every RAL color**.



Tools assortments.

When you are spoilt for choice our **predefined tools assortments** for certain professional groups or fields of application might be the best decision. No matter whether you are looking for a basic equipment or for purposeful supplementary sets.

Our assortments have been arranged by experts and have proven useful in practice for years.



MATADOR Industrial Solutions.

Special tools made to measure.



MATADOR's product range.

MATADOR is a leading OEM supplier for special automotive tools.



→ Construction on 3D-CAD



→ Forging technology



→ CNC-machining



→ Up-to-date logistics



Approved quality according to ISO 9001:2008.

As one of the first manufacturers of hand tools MATADOR became certified according to **DIN EN ISO 9002** already in the early 1990s.

Today MATADOR is certified according to **ISO 9001:2008** for the manufacturing and distribution of hand tools, automotive tools and forging parts in all enterprise functions.



Good tools are a matter of trust.

Trust is the basis of everything we do. We are well aware of that and so our work is guided by the following key success factors: **High technological skills, excellence** in all processes and **absolute reliability** when it comes to execution and service. That's what we stand for, that's how we want to inspire our customers.

MATADOR Industrial Services stands for **performance, competence and reliability** – since 1900.

For many decades, MATADOR has been a leading supplier of special tools for the automotive industry.

Our competences.

MATADOR is the right partner for the production of special tools for small and medium lot sizes. We produce custom parts according to your drawings and offer a wide product range from only one source:

- **Hot forging parts** with a thickness of 7 - 80 mm, a weight of 50 - 6000 g and a length of up to 1500 mm
- **Precision CNC turned and milled parts** (X = 1500 mm, Y = 550 mm, Z = 650 mm)
- **Casting parts**
- **Complex special parts**
- **OEM tool kits**

CAD-construction and prototyping.

With our **professional staff**, the **longtime experience** and a **first class machinery** - backed up by a quality office that supervises all processes according to **ISO 9001:2008** - we are able to follow the customer in all phases of product development:

From **Co-Design** to the **creation of prototypes** (just within a few days) and the **realisation of dies** and processing equipment, right up to **mass production** and the supply of the finished products according to your demand - MATADOR manages the whole process.

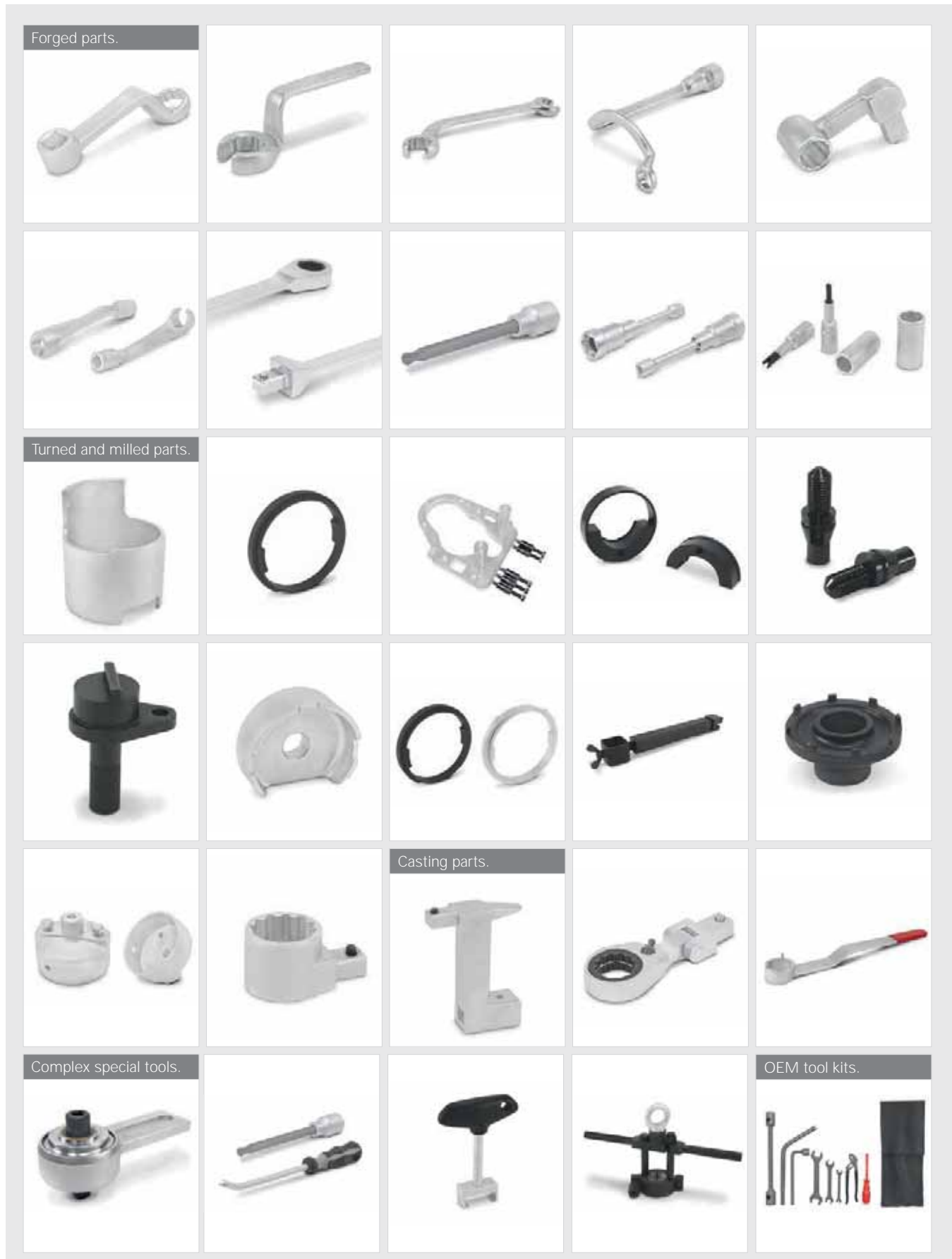


MATADOR Industrial Solutions.

Almost every workshop worldwide works with special tools from MATADOR.

MATADOR Industrial Solutions.

Exemplary special tools.



Traceable to national standards.

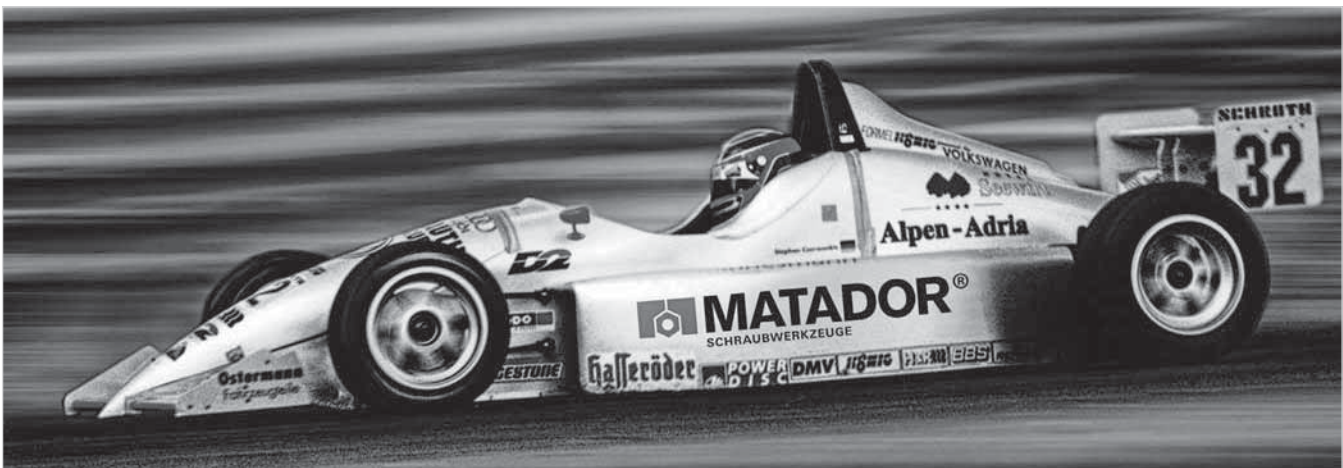
MATADOR service.

Factory calibration and more in our own laboratory.



Millionfold proven reliability.

How we understand service and quality.



The MATADOR factory calibration.

All MATADOR torque wrenches are produced to the highest quality standards, adjusted, traceably calibrated and certified. Each tool comes with a **factory calibration certificate**.

If requested MATADOR torque wrenches are recalibrated **within 5-7 workdays** at a reasonable price. Also, the tools can be repaired in-house at any time.



Guarantee.

Frankly speaking: we are really short with experience on claims.

But of course we offer a **full guarantee** on all MATADOR tools, and **we do not count it in years**.

We guarantee the appropriate quality of materials, the thorough mechanical processing and surface treatment of the products.

All MATADOR tools **exceed the load levels required by the DIN-/ISO-standards** and as a result offer extra safety in their daily use.

Should nevertheless be anything wrong we will find an unbureaucratic way to help you.

Service.

Our aim is to offer a perfect service, evidenced not only by supplying good tools but also by offering fast and convincing solutions.

For us perfect service means for example that we engage highly motivated and experienced personnel and provide them with the latest IT solutions to set the stage for real process efficiency.

Most of our main customers are connected to us via Edifact, Web-EDI etc. Every day we come along with **our aim to deliver 100%** (and not only 99%) of the items shown in this catalogue **within 24 hours**.

Environment.

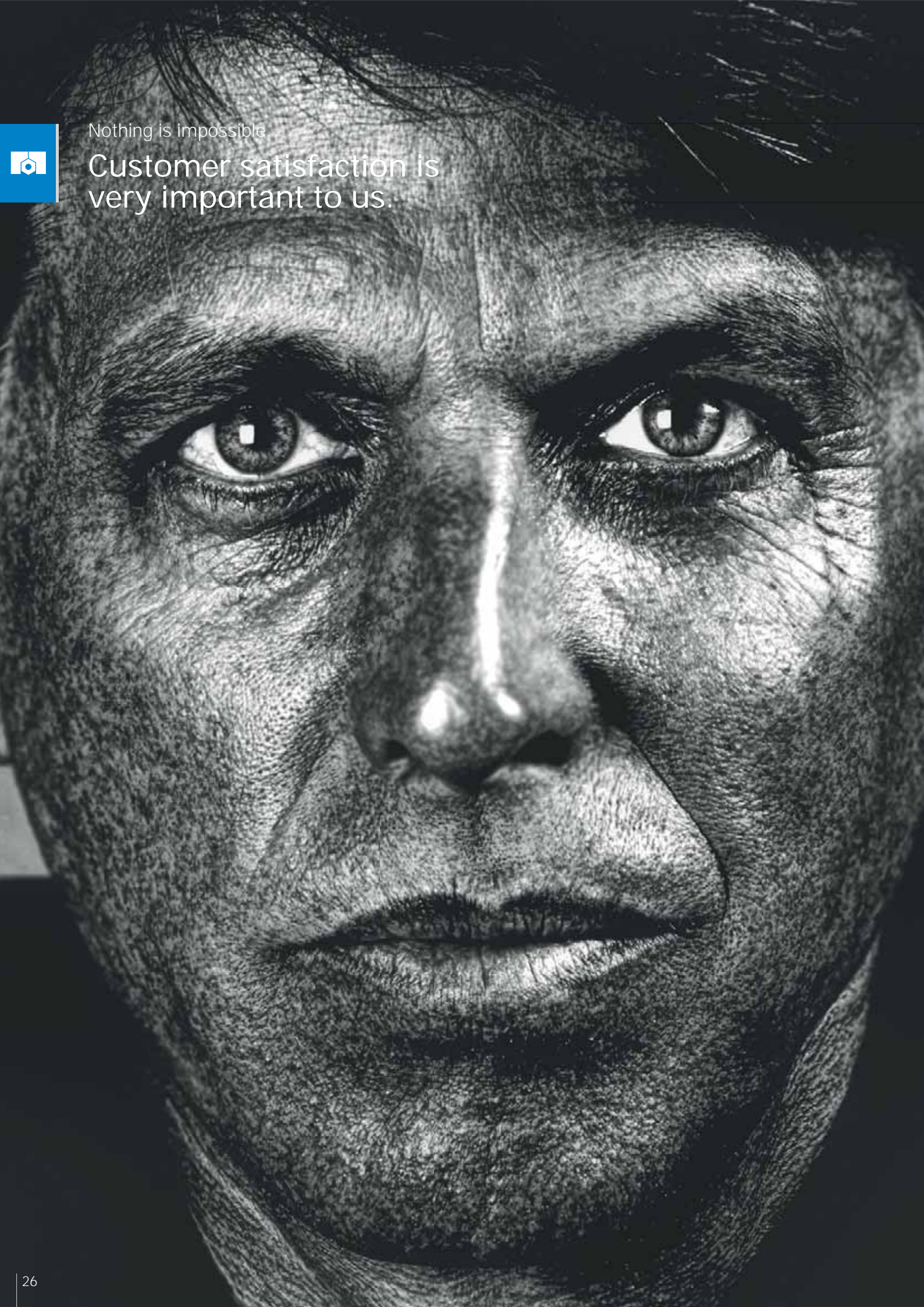
The protection of the environment is an important part of our quality concept.

We continually check our waste water values which are again inspected and analyzed by a renowned research institute.

By means of a heat-recovery device the heat generated by the machines is used to heat an important part of our buildings.

Naturally, our waste is recycled as far as possible - e.g. by converting our grinding waste into fully recyclable monosludges.

And of course, our packaging materials can be recycled as well.



Nothing is impossible

Customer satisfaction is
very important to us.



And that's what our customers say.



„They only have the tools you really need.“



„ Here I am treated as a real customer.“



„They are very competent, you realize their experience.“



„ Unfortunately not so many places to buy.“



„ Good prices and top quality. I will come back.“



„ Real insider's tip. I should have bought earlier.“



„They are really quick.“



„ Friendly people.“



„They seem to really enjoy their work.“

Do you ask yourself why you are not yet a MATADOR customer?

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Spanners and Wrenches.

Be a MATADOR.

Nothing gets done without the good old spanner.

MATADOR Spanners. For manual tightening.



More torque.

To make an accurate and perfectly finished spanner out of a piece of flat steel **more than 10 working steps** are necessary.

MATADOR processes only **high grade, quality-tested Chrome Vanadium** steel (31CrV3) that is automatically heated exactly to the right forging temperature.

A **precise mechanical processing** on state-of-the-art production machines as well as a **fully automatic, material-protecting hardening procedure** are the basis of the long-lasting quality of our spanners.

Tight spanners tolerances guarantee that the maximum torque can really be applied. And not only the MATADOR Smart Drive profile on the ring side but also **precisely grounded heads** on the open ended side do not only protect the screw but also ensure that the spanner fits perfectly to the screw.

MATADOR. More torque.
More performance.

Millionfold tried and tested quality.

For more than 110 years MATADOR has been producing several different types of spanners for professional users in industry and craft.

Tightening tools represent our core competence. For screw sizes from **4 up to 230 mm** (or **1/4 up to 7.1/2" AF**), in metric (mm) or inch (AF) sizes, for fine mechanics and heavy industry – MATADOR surely has the right spanner for your purpose.

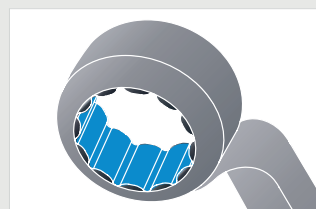
Individual sizes made to measure.

Besides our comprehensive range of standardized and non-standardized sizes MATADOR also produces **numerous special sizes and types according to your individual specifications** – we will be pleased to assist you.



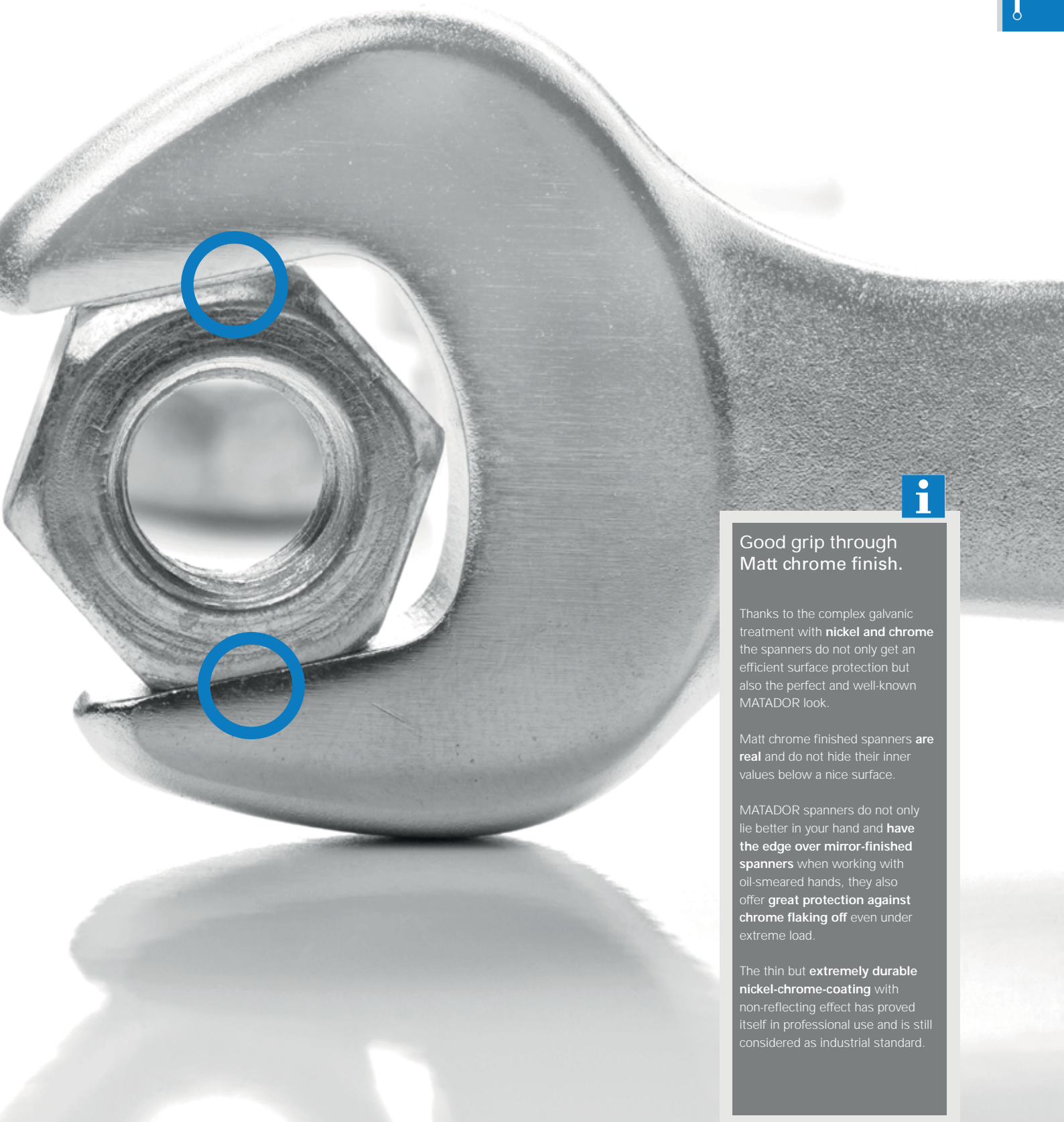
Ring spanners only with SmartDrive.

As one of the first tool manufacturers MATADOR introduced a special flank drive profile („SmartDrive“) for all ring spanners and sockets already **more than 10 years ago**. For more torque and less wear.



MATADOR's Classics.

Resilient. Accurate. Flat. Durable. Safe. Non-slip.
Non-glare. Simply good.



Good grip through
Matt chrome finish.

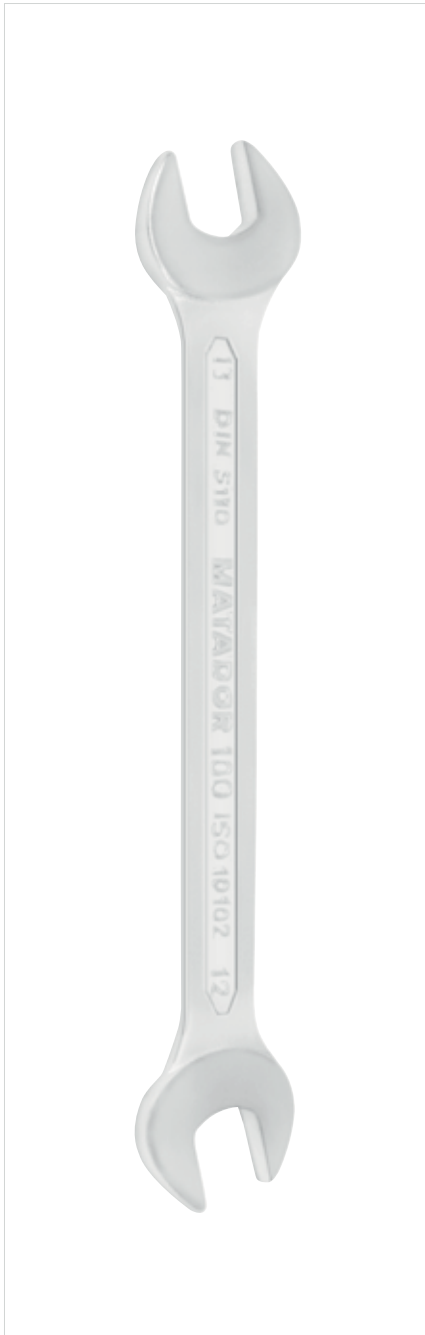
Thanks to the complex galvanic treatment with **nickel and chrome** the spanners do not only get an efficient surface protection but also the perfect and well-known MATADOR look.

Matt chrome finished spanners **are real** and do not hide their inner values below a nice surface.

MATADOR spanners do not only lie better in your hand and **have the edge over mirror-finished spanners** when working with oil-smearred hands, they also offer **great protection against chrome flaking off** even under extreme load.

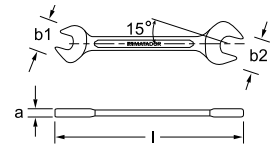
The thin but **extremely durable nickel-chrome-coating** with non-reflecting effect has proved itself in professional use and is still considered as industrial standard.

0100 Double Open Ended Spanners



- Ideal for tightening hexagon screws and when bolts or cables block the way
- Torque values exceeding DIN standards
- Flat heads for use in confined spaces
- Good grip thanks to matt chrome-plated surface, also with oily hands
- Heads are grinded and polished fully automatically, for longer durability
- Jaws set at 15°

- Standards: DIN 3110 / ISO 3318 / 1085 / 10102
- Material: Chrome Vanadium
- Surface: Matt chrome finish



Art. Code	mm	l mm	a mm	b1 mm	b2 mm	g	
0100 0405	4 x 5	103	3.2	12.5	14.0	10	10
0100 0555	5 x 5.5	122	3.2	14.0	16.0	10	10
0100 5507	5.5 x 7	122	3.3	16.0	17.5	20	10
0100 0607	6 x 7	122	3.3	16.0	17.5	20	10
0100 0809	8 x 9	136	3.7	20.0	22.0	25	10
0100 0810	8 x 10	145	3.7	20.0	24.0	30	10
0100 1011	10 x 11	152	4.5	24.0	27.0	40	10
0100 1012	10 x 12	152	4.5	24.0	27.0	40	10
0100 1013	10 x 13	172	5.1	26.0	30.5	55	10
0100 1213	12 x 13	172	5.1	28.5	30.5	70	10
0100 1415	14 x 15	185	5.5	31.5	33.5	90	10
0100 1617	16 x 17	201	5.9	35.5	38.5	110	10
0100 1719	17 x 19	221	6.9	40.0	43.0	155	10
0100 1819	18 x 19	221	6.9	40.0	43.0	155	10
0100 1922	19 x 22	235	7.2	44.0	48.0	210	10
0100 2022	20 x 22	235	7.2	44.0	48.0	210	10
0100 2123	21 x 23	245	7.4	47.0	51.0	240	10
0100 2224	22 x 24	245	7.4	47.0	51.0	240	10
0100 2426	24 x 26	265	8.4	54.0	57.0	300	10
0100 2427	24 x 27	265	8.4	54.0	57.0	320	10
0100 2528	25 x 28	275	8.4	56.0	61.5	480	10
0100 2730	27 x 30	275	8.4	56.0	62.5	500	10
0100 2732	27 x 32	299	9.4	59.5	68.5	530	10
0100 3032	30 x 32	299	9.4	62.5	68.5	550	10
0100 3236	32 x 36	325	9.6	68.5	74.5	650	1
0100 3641	36 x 41	358	9.8	74.5	84.0	830	1
0100 4146	41 x 46	400	10.3	84.0	93.5	830	1
0100 4650	46 x 50	450	11.6	95.5	102.0	1500	1
0100 5560	55 x 60	560	18.0	113.0	123.0	3160	1



Art. Code	" AF	l mm	a mm	b1 mm	b2 mm	g	
0100 8001	1/4 x 5/16	125	3.7	17.5	20.0	20	10
0100 8002	5/16 x 3/8	140	4.0	20.0	23.5	25	10
0100 8003	3/8 x 7/16	155	4.5	23.5	26.5	50	10
0100 8004	7/16 x 1/2	172	5.0	26.5	30.0	70	10
0100 8005	1/2 x 9/16	188	5.5	30.0	33.0	100	10
0100 8006	9/16 x 5/8	188	5.5	33.0	36.0	100	10
0100 8007	5/8 x 11/16	205	6.0	36.0	39.5	110	10
0100 8008	11/16 x 3/4	220	6.5	39.5	42.5	155	10
0100 8009	3/4 x 25/32	235	6.5	42.5	43.5	180	10
0100 8010	13/16 x 7/8	235	7.0	46.0	48.5	210	10
0100 8011	15/16 x 1	265	8.0	52.0	55.0	300	10
0100 8012	1 x 1.1/8	282	8.5	55.0	63.5	500	10
0100 8013	1.1/16 x 1.1/4	300	9.0	60.0	68.0	530	10

MATADOR's Classics.

Carefully manufactured for generations. Our classics.



The most important wrenches.

Even though the number of varieties has increased continuously, in the course of the decades four classic spanners have established that may not be missing in any tools assortment:

- Double Open Ended Spanners (DIN 3110)
- Angled Combination Spanners (DIN 3113 A)
- Offset Combination Spanners (DIN 3113 B)
- Double Ended Ring Spanners (DIN 838)



0100 Double Open Ended Spanners Sets

- Tried and tested assortments of double open ended spanners
 - All important sizes in one set
 - Sets in practical, transparent polypropylene box: robust packaging, stackable and easy to stock, reclosable, reusable and with hanging hole for tools panels (only 0100 9080)
 - Individual assortments on request
- Standards: DIN 3110 / ISO 3318 / 1085 / 10102
 - Material: Chrome Vanadium
 - Surface: Matt chrome finish

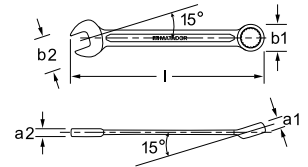


Art. Code	Icon	Weight (g)	Quantity
0100 9080		740	1
Content: 0100 6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 mm			
0100 9120		2150	1
Content: 0100 6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 - 21 x 23 - 24 x 27 - 25 x 28 - 30 x 32 mm			
0100 9081		2025	1
Content: 0100 1/4 x 5/16 - 5/16 x 3/8 - 7/16 x 1/2 - 9/16 x 5/8 - 11/16 x 3/4 - 13/16 x 7/8 - 15/16 x 1 - 1,1/16 x 1,1/4 , AF			
0100 9121		2025	1
Content: 0100 1/4 x 5/16 - 5/16 x 3/8 - 3/8 x 7/16 - 7/16 x 1/2 - 1/2 x 9/16 - 9/16 x 5/8 - 5/8 x 11/16 - 3/4 x 25/32 - 13/16 x 7/8 - 15/16 x 1 - 1 x 1/8 - 1.1/16 x 1.1/4 , AF			

0185 Combination Spanners, angled



- Classic spanners with same sizes on both ends (1 size per spanner)
 - With angled ring side
 - All-purpose tool for tightening or countering screw joints
 - High-grade, durable industrial quality
 - Torque values exceeding DIN standards
 - Flat heads for use in confined spaces
 - Good grip thanks to matt chrome-plated surface, also with oily hands
 - Heads are polished fully automatically, for longer durability of spanner and screws
 - Jaws set at 15°
- Standards: DIN 3113 A / ISO 3318 / 7738
 - Material: Chrome Vanadium
 - Surface: Matt chrome finish



Art. Code	mm	l mm	a1 mm	a2 mm	b1 mm	b2 mm	g	
0185 0060	6	100	5.4	3.6	10.2	15.0	15	10
0185 0070	7	110	5.4	3.6	11.7	16.0	20	10
0185 0080	8	120	6.4	4.1	13.0	18.0	25	10
0185 0090	9	130	6.4	4.1	14.5	20.0	30	10
0185 0100	10	140	7.9	4.6	15.8	22.0	40	10
0185 0110	11	150	8.4	5.1	17.2	24.5	45	10
0185 0120	12	160	8.4	5.1	18.5	27.5	55	10
0185 0130	13	170	9.4	5.9	20.0	28.5	60	10
0185 0140	14	180	9.9	5.9	21.5	30.5	75	10
0185 0150	15	190	9.9	5.9	22.5	32.5	90	10
0185 0160	16	200	10.9	6.3	24.0	34.5	105	10
0185 0170	17	210	10.9	6.5	25.5	37.5	120	10
0185 0180	18	220	11.9	6.7	26.5	39.5	145	10
0185 0190	19	230	11.9	7.2	28.0	42.0	170	10
0185 0200	20	240	12.4	7.7	29.5	43.0	185	10
0185 0210	21	250	12.9	8.2	31.5	45.0	200	10
0185 0220	22	260	12.9	8.7	33.0	47.0	250	10
0185 0240	24	280	13.9	8.9	36.0	51.0	300	10
0185 0270	27	310	15.4	9.7	39.5	57.5	405	5
0185 0300	30	340	16.4	10.2	43.5	60.5	510	5
0185 0320	32	360	16.9	10.2	46.5	65.5	600	5
0185 0340	34	420	19.0	10.2	49.0	72.0	630	5



Art. Code	" AF	l mm	a1 mm	a2 mm	b1 mm	b2 mm	g	
0185 8001	1/4	105	5.6	3.8	10	16.0	20	10
0185 8002	5/16	120	6.8	4.2	13	17.0	30	10
0185 8003	3/8	154	8.0	4.6	16	24.0	50	10
0185 8004	7/16	166	8.6	4.8	17	26.0	60	10
0185 8005	1/2	190	9.8	5.4	20	30.0	80	10
0185 8006	9/16	203	10.4	5.8	22	32.0	100	10
0185 8007	5/8	227	11.6	6.6	25	36.0	135	10
0185 8008	11/16	239	12.2	7	26	38.0	155	10
0185 8009	3/4	230	11.5	7	27.5	42.0	190	10
0185 8010	13/16	250	12.5	8.6	32	46.0	260	10
0185 8011	7/8	300	14.6	9	34	48.0	310	10
0185 8012	15/16	277	13.5	8.5	35	49.0	300	5
0185 8013	1	330	15.6	9.6	38	52.0	380	5
0185 8014	1.1/16	310	15.5	10	39	57.0	470	5
0185 8015	1.1/8	360	17.0	10	43	58.0	470	5
0185 8016	1.1/4	420	20.0	12	48	66.0	775	5

Equally sized Ring Spanners. Angled or offset?

Ring Spanners are available in two different versions:

Angled (as per DIN 3113 Form A) or **offset** (as per DIN 3113 Form B).

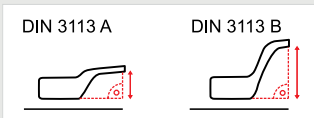
Depending on the case of application both versions have their specific advantages and disadvantages.

Angled ring spanners are **flatter** and **shorter** than offset ring spanners and are also lower priced.

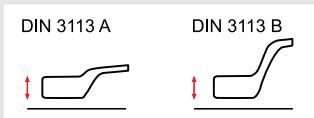
But especially in case of deep or hardly accessible screw joints offset ring spanners have the edge over the angled form A. They are longer, have a thicker ring head and can thus reach **higher torque values** so that particularly professional users give their preference to offset type spanners.

Thus MATADOR - as a manufacturer of tools for professional application - has a much larger range of offset type ring spanners than of angled ring spanners.

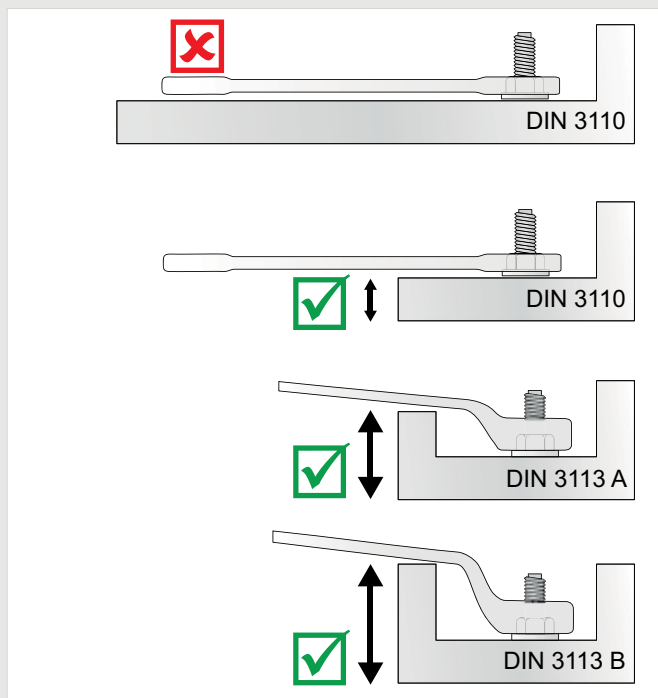
Further sizes are available on request.



→ Flatter angle of DIN 3113 A compared to DIN 3113 B



→ Thinner head of DIN 3113 A compared to DIN 3113 B



0185 Combination Spanners Sets



- Tried and tested assortments of angled combination spanners
- All important sizes in one set
- Sets in practical, transparent polypropylene box: robust packaging, stackable and easy to stock, reclosable, reusable and with hanging hole for tools panels (0185 9080 / 9100 / 9120), 0185 9160 in carton box
- From 6 to 22 mm or from 6 to 32 mm and from 5/16 to 1" AF in different assortments

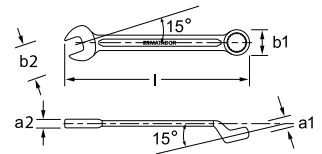
- Standards: DIN 3113 A / ISO 3318 / 7738
- Material: Chrome Vanadium
- Surface: Matt chrome finish

Art. Code	Icon	g	Box
0185 9080	8 MM	840	1
Content	0185 8 - 10 - 11 - 13 - 14 - 17 - 19 - 22 mm		
0185 9100	10 MM	655	1
Content	0185 6 - 7 - 8 - 9 - 10 - 11 - 13 - 14 - 17 - 19 mm		
0185 9120	12 MM	995	1
Content	0185 6 - 7 - 8 - 9 - 10 - 11 - 13 - 14 - 17 - 19 - 20 - 22 mm		
0185 9160	16 MM	2670	1
Content	0185 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 17 - 19 - 22 - 24 - 27 - 30 - 32 mm		
0185 9170	17 MM	1690	1
Content	0185 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 mm		
0185 9121	12 AF	1735	1
Content	0185 5/16 - 3/8 - 7/16 - 1/2 - 9/16 - 5/8 - 11/16 - 3/4 - 13/16 - 7/8 - 15/16 1" AF		

0190 Combination Spanners, offset (MM)



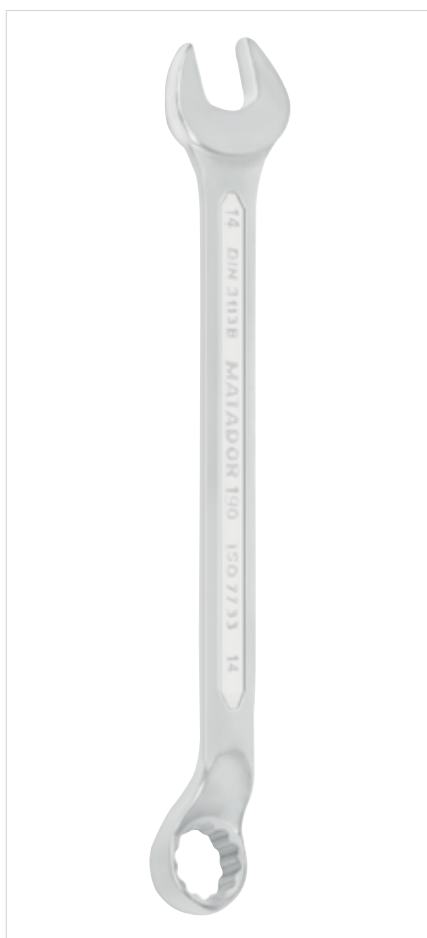
- Classic spanners with same sizes on both ends (1 size per spanner)
 - With polished and offset ring side
 - All-purpose tool for tightening or countering screw joints
 - High-grade, durable industrial quality
 - Torque values exceeding DIN standards
 - Flat heads for confined spaces
 - Good grip thanks to matt chrome-plated surface, also with oily hands
 - Grinded for longer durability of spanner and screws
 - Jaws set at 15°
- Standards: DIN 3113 B / ISO 3318 / 7738
 - Material: Chrome Vanadium
 - Surface: Matt chrome finish



Art. Code	mm	l mm	a1 mm	a2 mm	b1 mm	b2 mm	g	
0190 0060	6	100	5.3	3.9	10.0	15.5	20	10
0190 0070	7	112	5.8	3.9	11.5	16.5	25	10
0190 0080	8	124	6.3	4.4	13.0	18.5	30	10
0190 0090	9	136	6.8	4.4	14.5	20.3	35	10
0190 0100	10	147	7.4	4.9	16.0	22.3	50	10
0190 0110	11	159	7.8	5.3	17.5	25.3	55	10
0190 0120	12	171	8.4	5.3	18.2	28.3	65	10
0190 0130	13	183	9.0	6.2	19.5	29.2	75	10
0190 0140	14	195	9.8	6.4	21.5	31.0	100	10
0190 0150	15	207	9.8	6.7	22.5	33.0	105	10
0190 0160	16	219	10.3	7.1	23.7	35.0	120	10
0190 0170	17	232	10.4	7.5	25.3	38.0	170	10
0190 0180	18	243	11.4	7.7	26.8	40.0	155	10
0190 0190	19	256	11.8	7.9	28.0	41.0	200	10
0190 0200	20	268	12.0	8.4	29.5	41.5	240	10
0190 0210	21	279	12.3	8.7	31.5	45.5	250	10
0190 0220	22	292	12.4	8.9	33.0	48.0	265	10
0190 0230	23	315	12.8	9.5	35.5	49.5	265	10
0190 0240	24	315	12.8	9.5	35.5	49.5	400	10
0190 0250	25	315	12.8	9.5	35.5	49.5	400	5
0190 0260	26	349	14.3	10.5	39.5	56.5	400	5
0190 0270	27	349	14.3	10.5	39.5	56.5	485	5
0190 0280	28	385	15.4	10.9	43.5	63.0	620	5
0190 0290	29	385	15.4	10.9	43.5	63.0	610	5
0190 0300	30	385	15.4	10.9	43.5	63.0	610	5
0190 0320	32	408	16.2	11.1	46.0	67.5	780	5
0190 0330	33	412	20.5	11.8	47.5	70.5	800	1
0190 0340	34	412	20.5	11.8	49.0	70.5	840	1
0190 0360	36	460	23.5	12.8	52.2	76.2	1160	1
0190 0380	38	460	24.2	13.2	56.0	79.2	1450	1
0190 0410	41	520	25.5	14.0	60.2	85.0	1120	1
0190 0460	46	550	27.5	15.0	68.0	95.5	2250	1
0190 0500	50	580	29.5	16.0	74.0	103.0	2800	1
0190 0550	55	620	30.5	17.0	82.0	112.5	3600	1
0190 0600	60	660	32.0	18.0	90.0	121.0	4400	1
0190 0650	65	710	33.0	22.0	98.0	133.0	4500	1
0190 0700	70	760	35.0	24.0	105.0	143.0	5600	1
0190 0750	75	810	38.0	26.0	110.0	153.0	6780	1
0190 0800	80	860	41.0	28.0	119.0	163.0	8780	1



0190 Combination Spanners, offset (AF)



Art. Code	* AF	l mm	a1 mm	a2 mm	b1 mm	b2 mm	g	
0190 8001	1/4	105	5.5	4.3	11.4	16.2	20	10
0190 8002	5/16	125	6.7	4.7	14.2	20.3	30	10
0190 8003	3/8	150	7.9	5.1	16.7	24.3	50	10
0190 8004	7/16	160	8.5	5.3	17.9	26.4	55	10
0190 8005	1/2	185	9.7	5.9	20.7	30.5	75	10
0190 8006	9/16	195	10.2	6.3	22.3	32.5	90	10
0190 8007	19/32	195	10.8	6.7	23.6	34.5	105	10
0190 8008	5/8	220	11.4	7.1	25.1	36.5	120	10
0190 8009	11/16	250	12.0	7.5	26.6	38.5	135	10
0190 8010	3/4	255	12.8	8.3	29.5	42.5	200	10
0190 8011	13/16	280	12.5	9.1	31.0	45.0	240	10
0190 8012	7/8	290	14.4	9.4	34.5	48.7	265	10
0190 8013	15/16	295	14.4	9.4	34.5	48.7	365	10
0190 8014	1	329	15.4	9.8	38.0	52.7	400	10
0190 8015	1.1/16	350	16.7	10.6	40.5	56.5	485	5
0190 8016	1.1/8	360	16.7	10.6	41.8	59.0	485	5
0190 8017	1.1/4	410	16.7	11.0	46.0	67.0	780	5
0190 8018	1.5/16	435	20.5	12.2	48.5	70.5	780	5
0190 8019	1.3/8	460	21.2	13.0	53.8	76.0	1000	5
0190 8020	1.7/16	460	21.2	13.0	53.8	76.0	1000	5
0190 8021	1.1/2	460	24.2	13.2	56.0	79.2	1400	5
0190 8022	1.5/8	520	25.5	14.0	60.5	85.0	1400	5
0190 8023	1.11/16	470	22.0	13.5	62.0	85.0	1400	5
0190 8024	1.3/4	550	27.5	15.0	66.0	95.5	2200	5
0190 8025	1.13/16	550	27.5	15.0	68.0	95.5	2250	5
0190 8026	1.7/8	550	27.5	15.0	69.0	95.5	2300	5
0190 8027	2	580	29.5	16.0	74.5	103.0	2800	1

0190 Combination Spanners Sets



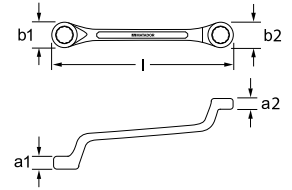
- Tried and tested assortments of offset type combination spanners
- All important sizes in one set
- Sets in practical, transparent polypropylene box (except for 0190 9122 / 9160 / 9161 = carton box)
- Standards: DIN 3113 B / ISO 3318 / 7738
- Material: Chrome Vanadium
- Surface: Matt chrome finish

Art. Code		g	
0190 9080	8 MM	600	1
Content	0190 8 - 9 - 10 - 11 - 13 - 14 - 17 - 19 mm		
0190 9120	12 MM	1175	1
Content	0190 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm		
0190 9121	12 MM	1300	1
Content	0190 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 17 - 19 - 22 mm		
0190 9122	12 MM	3200	1
Content	0190 10 - 11 - 12 - 13 - 14 - 17 - 19 - 22 - 24 - 27 - 30 - 32 mm		
0190 9160	16 MM	3220	1
Content	0190 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 17 - 19 - 22 - 24 - 27 - 30 - 32 mm		
0190 9170	17 MM	1920	1
Content	0190 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 mm		
0190 9161	16 AF	3365	1
Content	0190 1/4 - 5/16 - 3/8 - 7/16 - 1/2 - 9/16 - 19/32 - 5/8 - 11/16 - 3/4 - 13/16 - 7/8 - 15/16 1 - 1.1/16 - 1.1/4 , AF		

0200 Double Ended Ring Spanners



- Classic spanners with deeply offset double ring profile for deep-set screw joints
- Standards: DIN 838 / ISO 3318 / 1085 / 10104
- 2 sizes per spanner
- Material: Chrome Vanadium
- High-grade, durable industrial quality
- Surface: Matt chrome finish
- Good grip thanks to matt chrome-plated surface, also with oily hands
- Heads fully automatically grinded, for longer durability of spanner and screws



Art. Code	mm	l mm	a1 mm	a2 mm	b1 mm	b2 mm	g	
0200 0607	6 x 7	167	5.6	6.2	10.4	12.0	40	10
0200 0809	8 x 9	182	6.4	7.1	13.4	15.0	60	10
0200 0810	8 x 10	182	6.4	7.1	13.4	16.0	60	10
0200 1011	10 x 11	197	7.5	8.0	16.0	17.8	75	10
0200 1013	10 x 13	216	8.5	9.1	16.0	21.0	110	10
0200 1213	12 x 13	216	8.5	9.1	19.3	21.0	110	10
0200 1317	13 x 17	263	10.3	10.7	22.0	26.5	240	10
0200 1415	14 x 15	216	9.7	10.7	21.8	22.7	110	10
0200 1617	16 x 17	263	10.3	10.7	25.0	26.5	240	10
0200 1719	17 x 19	290	11.0	11.3	27.5	29.0	300	10
0200 1819	18 x 19	290	11.0	11.3	27.5	29.0	300	10
0200 1922	19 x 22	318	11.7	12.4	29.0	33.5	305	10
0200 2022	20 x 22	318	11.7	12.4	29.0	33.5	305	10
0200 2123	21 x 23	325	12.2	13.0	32.0	35.0	360	5
0200 2224	22 x 24	325	12.2	13.0	34.0	37.0	360	5
0200 2426	24 x 26	337	13.0	14.0	36.1	40.0	430	5
0200 2427	24 x 27	337	13.0	14.0	36.1	40.0	430	5
0200 2528	25 x 28	346	13.2	14.5	38.0	42.0	450	5
0200 3032	30 x 32	360	15.2	16.5	43.7	46.0	620	5
0200 3236	32 x 36	410	16.0	17.5	50.0	52.0	950	5
0200 3641	36 x 41	440	17.5	19.0	52.0	60.0	1100	5
0200 4146	41 x 46	475	19.5	21.0	60.0	67.0	1280	5
0200 4650	46 x 50	536	19.7	20.6	61.0	68.0	1390	1
0200 5560	55 x 60	610	24.6	25.6	84.9	91.8	3150	1



Art. Code	" AF	l mm	a1 mm	a2 mm	b1 mm	b2 mm	g	
0200 8001	1/4 x 5/16	176	5.8	6.4	12.0	14.5	55	10
0200 8002	3/8 x 7/16	206	8.5	9.0	16.0	17.2	115	10
0200 8003	7/16 x 1/2	221	9.5	9.8	18.7	20.0	135	10
0200 8004	1/2 x 9/16	245	9.5	10.2	21.7	23.5	145	10
0200 8005	5/8 x 11/16	271	12.0	12.8	26.0	29.0	270	5
0200 8006	3/4 x 25/32	271	12.4	12.8	27.5	29.0	270	5
0200 8007	13/16 x 7/8	311	13.6	14.2	32.0	35.0	400	5
0200 8008	15/16 x 1	331	14.4	15.0	36.5	39.5	495	5
0200 8009	1.1/16 x 1.1/4	371	15.4	17.0	40.7	47.5	640	5
0200 8010	1.7/16 x 1.5/8	439	17.7	19.7	53.0	61.0	1100	5
0200 8011	1.11/16 x 1.7/8	486	19.7	20.6	61.0	68.0	1390	5
0200 8012	1.13/16 x 2	536	20.6	22.6	68.0	74.0	1955	5

Goes easy on the tool and the screw.

MATADOR SmartDrive. The intelligent profile.

Conventional „angular“ hexagon or double hexagon profiles transfer considerable tightening and separation forces to the edges of the screw heads.

The consequences:

- Lower traction
- Deformed screw heads
- Less contact surface when screw heads are rounded

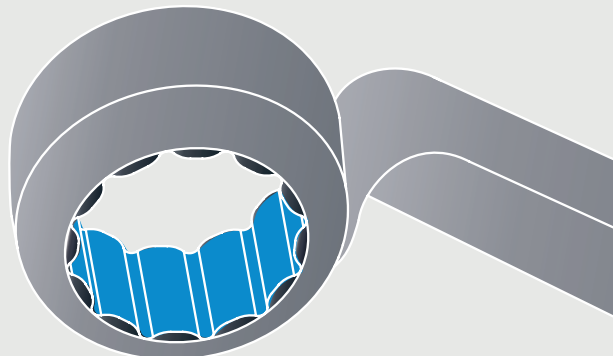
As one of the first tool manufacturers MATADOR introduced a special flank drive profile („SmartDrive“) for all ring spanners and sockets already **more than 10 years ago.**

Spanners with **MATADOR**

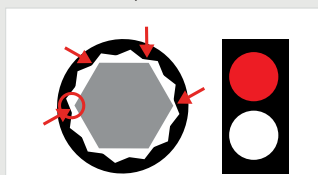
Smart-Drive profile transfer forces to the flanks of the screw head, not to the edges. Thanks to this flank drive profile the spanners can work on double the contact surface than conventional spanners.

The advantages:

- Optimized traction, even on screws with rounded edges
- Higher torque values
- Ideal protection of the screws and nuts

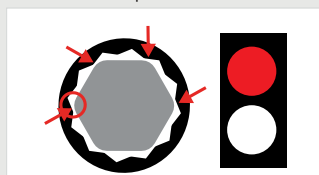


Conventional profile:



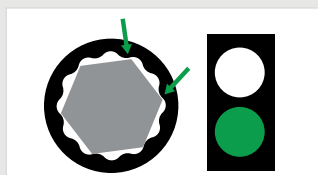
- Less traction with angular double hexagon profiles

Conventional profile:



- Hardly any traction on screws with rounded edges

MATADOR SmartDrive:



- Perfect traction also on screws with rounded edges









MATADOR SmartDrive:



0200 Double Ended Ring Spanners Sets



- Tried and tested assortments of ring spanners, all important sizes in one set
 - High-grade, durable industrial quality
 - Good grip thanks to matt chrome-plated surface, also with oily hands
 - Fully automatically grinded heads, for longer durability of spanner and screws
 - Sets in practical, transparent polypropylene box (except for 0200 9100 / 9120 / 9081 = carton box)
 - Individual assortments on request
- Standards: DIN 838 / ISO 3318 / 1085 / 10104
 - Material: Chrome Vanadium
 - Surface: Matt chrome finish

Art. Code	g	
0200 9080  8 [MM]	1265	1
Content  0200 6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 mm		
0200 9100  10 [MM]	2355	1
Content  0200 6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 - 24 x 27 - 30 x 32 mm		
0200 9120  12 [MM]	3310	1
Content  0200 6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 - 21 x 23 - 24 x 27 - 25 x 28 - 30 x 32 mm		
0200 9081  8 [AF]	2180	1
Content  0200 1/4 x 5/16 - 3/8 x 7/16 - 1/2 x 9/16 - 5/8 x 11/16 - 3/4 x 25/32 - 13/16 x 7/8 - 15/16 x 1 - 1.1/16 x 1.1/4 , AF		

Adjunct tools for industry and engineering.
The Inexpensive ones.

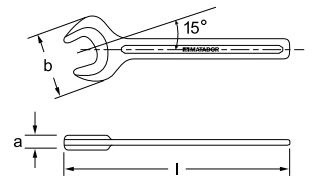


0130 Single Open Ended Spanners, DIN 894



- Basic spanners for industrial use
- With long shaft for deep-set screw joints
- Good grip through profiled shaft
- Jaws set at 15°

- Standards: DIN 894 / ISO 3318
- Material: Tempered steel
- Surface: Manganese phosphated



Art. Code	mm	l mm	a mm	b mm	g	
0130 0060	6	73	3.5	14.0	8	10
0130 0070	7	77	3.5	16.0	10	10
0130 0080	8	95	3.8	19.0	15	10
0130 0090	9	100	4.0	20.0	20	10
0130 0100	10	105	4.5	22.0	20	10
0130 0110	11	110	5.0	24.0	23	10
0130 0120	12	125	5.5	26.0	37	10
0130 0130	13	130	5.8	28.0	40	10
0130 0140	14	140	6.0	20.0	48	10
0130 0150	15	150	6.0	32.0	52	10
0130 0160	16	155	6.2	34.0	55	10
0130 0170	17	155	6.4	36.0	67	10
0130 0180	18	161	6.8	38.0	70	10
0130 0190	19	170	7.0	40.0	82	10
0130 0220	22	193	8.2	46.0	120	10
0130 0240	24	216	8.6	50.0	140	10
0130 0270	27	240	9.5	56.0	205	10
0130 0300	30	260	10.5	62.0	240	10
0130 0320	32	274	11.0	66.0	335	10
0130 0360	36	299	12.8	74.0	440	10
0130 0380	38	324	13.2	78.0	650	10
0130 0410	41	339	15.0	84.0	675	10
0130 0460	46	380	15.5	94.0	745	5
0130 0500	50	401	16.5	102.0	1070	5
0130 0550	55	442	17.0	112.0	1195	5
0130 0600	60	473	17.5	122.0	1600	5
0130 0650	65	522	18.0	132.0	1955	5
0130 0700	70	570	19.5	142.0	2250	5
0130 0750	75	608	20.5	152.0	2850	1
0130 0800	80	670	21.5	162.0	3500	1
0130 0850	85	670	22.5	172.0	3600	1
0130 0900	90	700	24.5	182.0	4200	1
0130 0950	95	738	24.5	192.0	4800	1
0130 1000	100	850	25.5	202.0	5900	1
0130 1050	105	1000	27.0	220.0	9500	1
0130 1100	110	1000	27.0	220.0	10 000	1



What is Tempered steel?

Open ended spanners according to DIN 894 / DIN 895 are made of tempered steel which is an **unalloyed steel**, e.g. C45. The dominant element is carbon (e.g. 0,45%).

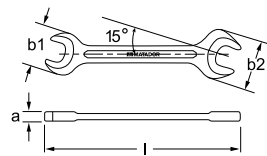
The higher the percentage of carbon, the more brittle the steel. Through tempering (i.e. hardening and tempering) the steel receives its tensile and fatigue strength.

In fact unalloyed steel has a **good price-performance ratio** but it is mainly used only for application where the tools are less claimed, e.g. as adjunct tools.

Moreover, for cost reasons there is **no full galvanic treatment** so that these tools are prone to rust.

0132 Double Open Ended Spanners, DIN 895

- Basic double open ended spanners for industrial use
- 2 sizes per spanner
- With long shaft for deep-set screw joints
- Good grip through profiled shaft
- Jaws set at 15°
- Standards: DIN 895 / ISO 3318 / 1085
- Material: Tempered steel
- Surface: Manganese phosphated



Art. Code	mm	l mm	a mm	b1 mm	b2 mm	g	
0132 0607	6 x 7	96	3.3	14.0	16.0	15	10
0132 0809	8 x 9	105	3.8	19.0	20.0	20	10
0132 0810	8 x 10	114	4.2	19.0	22.0	25	10
0132 0813	8 x 13	114	4.2	19.0	22.0	25	10
0132 0911	9 x 11	117	4.5	20.0	24.0	33	10
0132 1011	10 x 11	117	4.5	22.0	24.0	35	10
0132 1013	10 x 13	117	5.0	22.0	28.0	40	10
0132 1113	11 x 13	135	5.0	24.0	28.0	47	10
0132 1114	11 x 14	135	5.0	26.0	28.0	47	10
0132 1213	12 x 13	135	5.0	26.0	28.0	47	10
0132 1214	12 x 14	139	5.2	26.0	30.0	50	10
0132 1314	13 x 14	139	5.2	28.0	30.0	57	10
0132 1315	13 x 15	151	5.4	28.0	32.0	60	10
0132 1317	13 x 17	156	5.6	28.0	35.5	75	10
0132 1415	14 x 15	151	5.6	30.0	35.5	75	10
0132 1417	14 x 17	156	5.6	30.0	35.5	80	10
0132 1617	16 x 17	156	5.6	33.5	35.5	83	10
0132 1719	17 x 19	170	6.0	35.5	39.5	100	10
0132 1722	17 x 22	191	6.8	35.5	45.5	152	10
0132 1819	18 x 19	191	6.0	37.5	39.5	105	10
0132 1922	19 x 22	170	6.8	39.5	45.5	145	5
0132 2224	22 x 24	221	7.5	45.5	49.5	215	5
0132 2427	24 x 27	241	8.5	49.5	55.5	255	5
0132 2430	24 x 30	265	9.0	49.5	61.5	295	5
0132 2528	25 x 28	265	9.0	51.5	61.5	305	5
0132 2730	27 x 30	265	9.0	55.5	61.5	315	5
0132 3032	30 x 32	270	10.0	61.5	65.5	420	5
0132 3036	30 x 36	297	12.0	61.5	73.5	535	5
0132 3236	32 x 36	297	12.0	65.5	73.5	550	5
0132 3641	36 x 41	341	13.5	73.5	83.5	790	5
0132 4146	41 x 46	373	14.0	83.5	93.5	895	5
0132 4650	46 x 50	408	14.5	93.5	101.5	1130	5
0132 5055	50 x 55	451	15.5	101.5	115.5	1570	1
0132 5560	55 x 60	490	17.5	112.0	120.0	1875	1



What is Chrome-Vanadium-steel?

Contrary to unalloyed steels Chrome Vanadium steel which is used for most high-quality tools **contains several alloy components** (Chrome and Vanadium).

Through this the features of the steel are improved and the high temperature strength is increased: Vanadium provides for an increased toughness at a more fine structure. Chrome increases corrosion protection and hardenability.

Thus Chrome Vanadium steel **can be hardened far more evenly**. Additionally Chrome Vanadium steel contains spring elements so that **breakage or cracks only rarely occur**.

That is why high-quality tools should always be made of Chrome Vanadium steel.

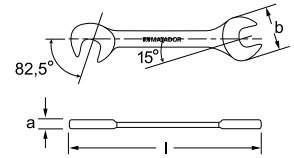


0145 Double Open Ended Spanners, Mini



- Especially for confined spaces
- Extra thin heads
- Jaws set at 15° and 82,5°
- Same sizes on both ends

- Material: Chrome Vanadium
- Surface: Polished chrome finish



Art. Code	mm	l mm	a mm	b mm	g	
0145 0050	5 x 5	85	3.1	13.0	10	10
0145 0055	5.5 x 5.5	87	3.1	13.5	10	10
0145 0060	6 x 6	90	3.1	13.5	10	10
0145 0070	7 x 7	92	3.4	15.0	12	10
0145 0080	8 x 8	94	3.4	17.0	14	10
0145 0090	9 x 9	100	3.4	18.5	16	10
0145 0100	10 x 10	104	4.4	21.0	24	10
0145 0110	11 x 11	107	4.4	22.5	26	10

Art. Code	g	
0145 9080	115	1

Content: 0145 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 mm

0158 Magnetic Spanners Set



- For fine mechanics, model making etc.
- 10 mini tools on ring, consisting of 8 mini open ended spanners, 1 contact file with slotted screwdriver, 1 feeler gauge 0.40 mm

- Material: Sheet steel, hardened
- Surface: Nickel-plated

Art. Code	g	
0158 0001	50	1

Content: 0145 4 - 4,5 - 5 - 5,5 - 6 - 6,5 - 7 - 7,5 mm

The right spanner for screw and nut.

The width across flats (SW) of a spanner defines the „size“ of the spanner, e.g. SW 13 for 13 mm. The mm and inch units are stamped into the spanner.

Screws and nuts are classified through the nominal diameter (d) of their thread and thus identified e.g. as „M 6“:

Thread diameter and width of the spanner are not identical. The correct spanner-screw combination can be seen from the alongside table:



	M 2	M 2,5	M 3	M 4	M 5	M 6	M 8
	SW 4	SW 5	SW 5,5	SW 7	SW 8	SW 10	SW 13
	M 10	M 12	M 14	M 16	M 18	M 20	M 22
	SW 16 (SW 17)	SW 18 (SW 19)	SW 22	SW 24	SW 27	SW 30	SW 32

- Values in brackets = old values are the previously applicable DIN 931 / 933

The correct spanner size?

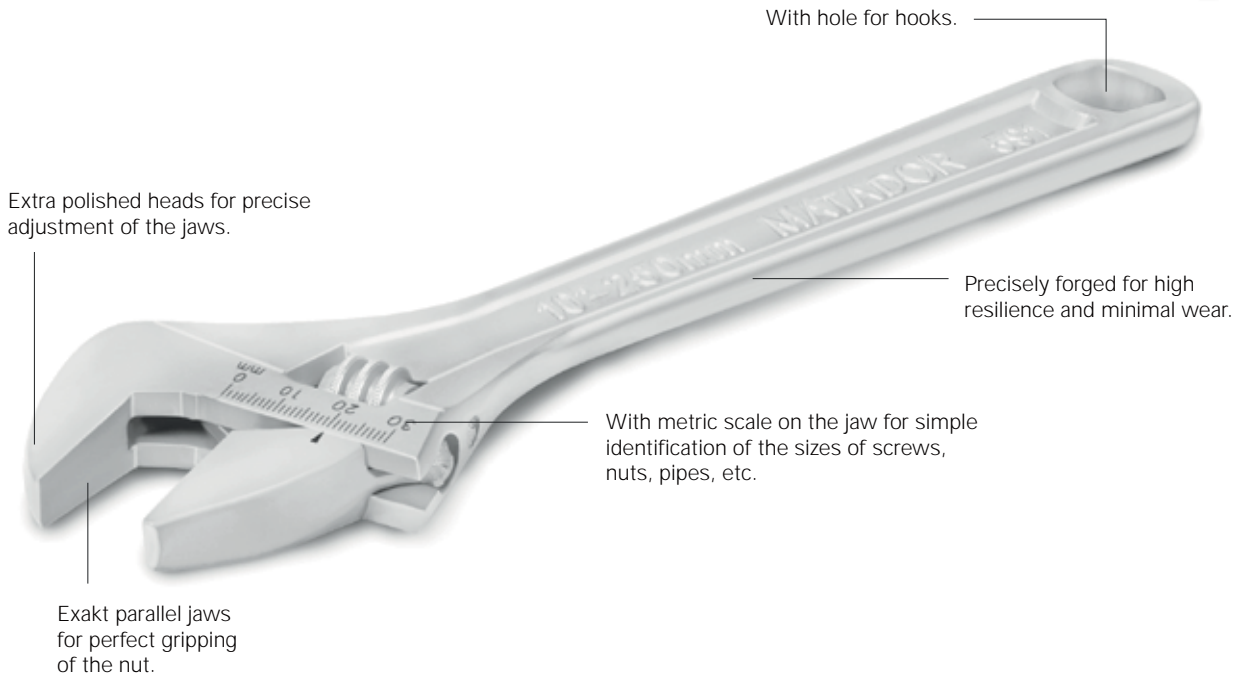
Spanner sizes for hexagon nuts and screws are defined as per DIN ISO 272. E.g. according to this standard a nut sized M 8 requires a spanner sized 13 mm.

According to the previously valid DIN 931 and 933 the required spanner size for M 10 screws was 17 mm and 19 mm for M 12 screws.

Due to the transformation of the DIN into the international ISO standard the correct spanner sizes became 16 and 18 mm leading to an increased importance of spanners sized 16 and 18 mm.

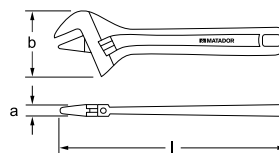
The practical allround spanner.

Adjustable Single Ended Spanners. One for all.



0591 Adjustable Spanners

- Several sizes per spanner
 - High-grade, durable industrial quality
 - Good grip thanks to matt chrome-plated surface, also with oily hands
 - Swedish type with anticlockwise spool
 - Jaws set at 15°
- Standards: DIN 3117 Form A ISO 6787-1982
 - Material: Chrome Vanadium (6 - 12")
Tempered steel (15 - 18")
 - Surface: Matt chrome finish



Art.-Code	mm	" AF	l "	l mm	a mm	b mm	mm	g	
0591 0060	0-20	0-25/32	6	150	12.5	46	0-20	140	1
0591 0080	0-25	0-1	8	200	13.5	57	0-25	250	1
0591 0100	0-30	0-1.3/16	10	250	16	66	0-30	390	1
0591 0120	0-40	0-1.9/16	12	300	20	82	0-40	630	1
0591 0150	0-43	0-1.11/16	15	375	25	105	0-45	950	1
0591 0180	0-53	0-2.1/16	18	450	29	130	0-55	1600	1

The most important innovation since the invention of spanners.

MATADOR Ratchet Spanners. If time is short.



2 in 1: Ratchet Spanners.

MATADOR Ratchet Spanners combine the advantages of a ratchet with those of a slim spanner:

The ultra slim design of the ring side allows fast working in confined spaces, even where conventional ratchets with sockets are not applicable. For instance the thickness of the ring side of a ratchet spanner is only 1/5 of the height of a standard ratchet with socket.

The open ended side is appropriate for all screw connections where bolts or cables block the way.

Higher torque value in most confined spaces.

MATADOR relies on the tried and tested GEARplus® technique which is made of specially hardened and Tempered steel.

The progressive toothing of the inserted ratchet gear allows the transmission of up to 30% more torque compared to previous ratchet spanners and reaches and even exceeds the DIN / ISO torque standards for standard combination spanners.

Thanks to the ratcheting angle of only 5° and the 72 teeth ratchet mechanism screw connections can be tightened or loosened at a previously unknown speed – without resetting.

With MATADOR SmartDrive profile.

Of course, all MATADOR ratchet spanners are provided with MATADOR SmartDrive profile.

MATADOR SmartDrive profile transmits forces at 100% to the flanks of the screw head or the nut, not to the edges. Thanks to this flank drive profile the spanners work on double the contact surface than conventional spanners, even rounded screws are no problem.

The advantages:

- Optimized traction, even on screws with rounded edges
- Higher torque values
- Ideal protection of the screws and nuts

What are the benefits of ratchet spanners?

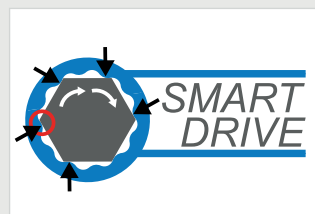
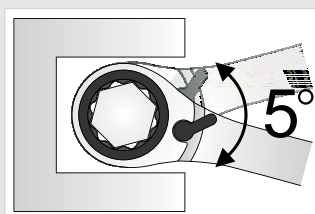
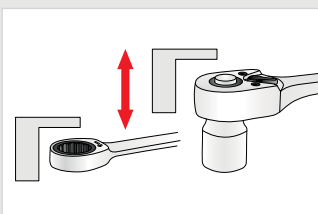
One can no longer imagine a modern workshop without ratchet spanners.

Meanwhile millionfold tried and tested ratchet spanners often replace the use of standard ratchets and spanners. Through the **flat design** they reach spaces where standard reversible ratchets with sockets cannot be used.

Thanks to the innovative ratchet technique screws can be tightened up to **7x faster** because there is no need for resetting the tool.

And by the way ratchet spanners reach **nearly identical torque values** compared to standard spanners.

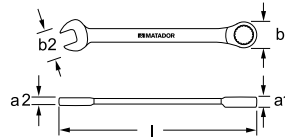
Powerful, flat, fast.





0183 Combination Ratchet Spanners, straight

- Combination ratchet spanners, straight type
 - With 72 teeth, very high torque values (exceeding DIN 3110 / ISO 3318)
 - With patented ratchet gear (GEARplus[®]) made of special steel with 72 teeth
 - Simply turn around for clockwise / anticlockwise use
 - Jaws set at 15°
- Standards: Similar to DIN 3113 A, ISO 3318 / 7738
 - Material: Chrome Vanadium
 - Surface: Matt chrome finish



Art. Code	mm	l mm	a1 mm	a2 mm	b1 mm	b2 mm	g	
0183 0060	6	128	6.3	3.9	14.0	15.0	25	10
0183 0070	7	140	6.5	4.0	16.8	16.7	30	10
0183 0080	8	140	6.5	4.0	16.8	16.7	30	10
0183 0090	9	149	6.9	4.4	18.8	18.7	40	10
0183 0100	10	158	7.3	4.8	20.8	20.8	50	10
0183 0110	11	165	7.7	5.2	21.8	23.0	60	10
0183 0120	12	171	8.2	5.5	22.8	24.6	70	10
0183 0130	13	178	8.6	5.8	24.8	26.8	80	10
0183 0140	14	190	9.0	6.2	27.8	29.0	110	10
0183 0150	15	199	9.4	6.5	28.8	31.0	120	10
0183 0160	16	208	9.9	6.8	30.8	33.0	150	10
0183 0170	17	225	10.3	7.2	31.8	35.5	180	10
0183 0180	18	236	10.7	7.7	32.8	37.5	210	10
0183 0190	19	247	11.2	8.2	33.8	39.4	240	10
0183 0220	22	289	13.0	9.0	40.0	45.8	340	5
0183 0240	24	322	14.5	10.0	46.0	51.8	470	5
0183 0270	27	358	15.5	10.5	52.0	56.4	580	5
0183 0300	30	401	17.0	11.4	58.0	62.7	860	5
0183 0320	32	424	17.5	12.5	62.0	66.4	1060	5



0183 Combination Ratchet Spanners Sets

- Tried and tested assortments of combination ratchet spanners, straight type
 - All important sizes in one set
 - Sets in practical, transparent polypropylene box: robust packaging, stackable and easy to stock, reclosable, reusable and with hanging hole for tools panels
 - Individual assortments on request
- Standards: Similar to DIN 3113 A, ISO 3318 / 7738
 - Material: Chrome Vanadium
 - Surface: Matt chrome finish

Art. Code	Content	g	
0183 9050	0183 8 - 10 - 13 - 17 - 19 mm	600	1
0183 9080	0183 8 - 9 - 10 - 11 - 13 - 14 - 17 - 19 mm	790	1
0183 9120	0183 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	1400	1



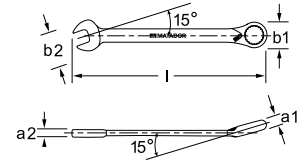


0189 Combination Ratchet Spanners, angled



- Combination ratchet spanners, angled type, jaws set at 15°
- With 72 teeth, very high torque values (exceeding DIN 3110 / ISO 3318)
- With patented ratchet gear (GEARplus®) made of special steel with 72 teeth
- With switch lever

- Standards: Similar to DIN 3113 A / ISO 3318 / 7738
- Material: Chrome Vanadium
- Surface: Matt chrome finish



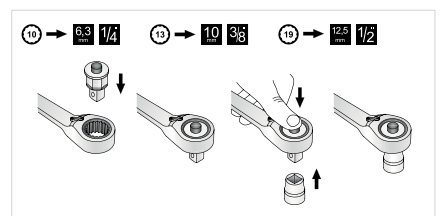
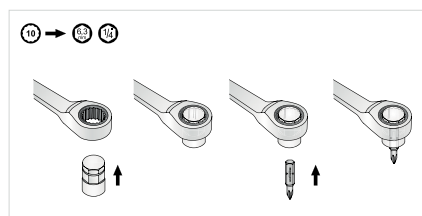
Art. Code	mm	l mm	a1 mm	a2 mm	b1 mm	b2 mm	g	
0189 0060	6	126	6.3	3.9	14.0	15.0	30	10
0189 0070	7	145	6.5	4.6	16.6	16.7	30	10
0189 0080	8	145	6.5	4.6	16.6	16.7	30	10
0189 0090	9	150	6.9	4.9	18.4	18.8	40	10
0189 0100	10	145	7.3	5.3	20.0	20.8	50	10
0189 0110	11	165	7.7	5.6	21.8	23.0	60	10
0189 0120	12	172	8.2	6.0	22.7	25.0	70	10
0189 0130	13	165	8.6	6.4	24.7	27.1	80	10
0189 0140	14	190	9.0	6.8	27.0	29.2	100	10
0189 0150	15	200	9.4	7.0	28.3	31.3	120	10
0189 0160	16	208	9.9	7.2	30.0	33.4	150	10
0189 0170	17	225	10.3	7.7	31.8	35.5	160	10
0189 0180	18	237	10.7	8.2	32.6	37.6	190	10
0189 0190	19	248	11.2	8.8	33.8	39.7	220	10
0189 0220	22	290	13.0	9.0	40.0	46.0	360	5
0189 0240	24	323	14.5	10.0	46.0	52.2	470	5
0189 0270	27	331	15.5	10.5	52.5	56.5	660	5
0189 0300	30	389	17.0	11.4	58.5	62.7	860	5
0189 0320	32	415	17.5	12.4	62.6	66.4	1050	5

0186 Adapters for Ratchet Spanners



- Makes an ultra-flat ratchet out of a ratchet spanner (10 mm = 1/4" or 1/4" Bit, 13 mm = 3/8" and 19 mm = 1/2")
- With push-button quick-release function
- Applicable for ratchet spanners with GEARplus® technique

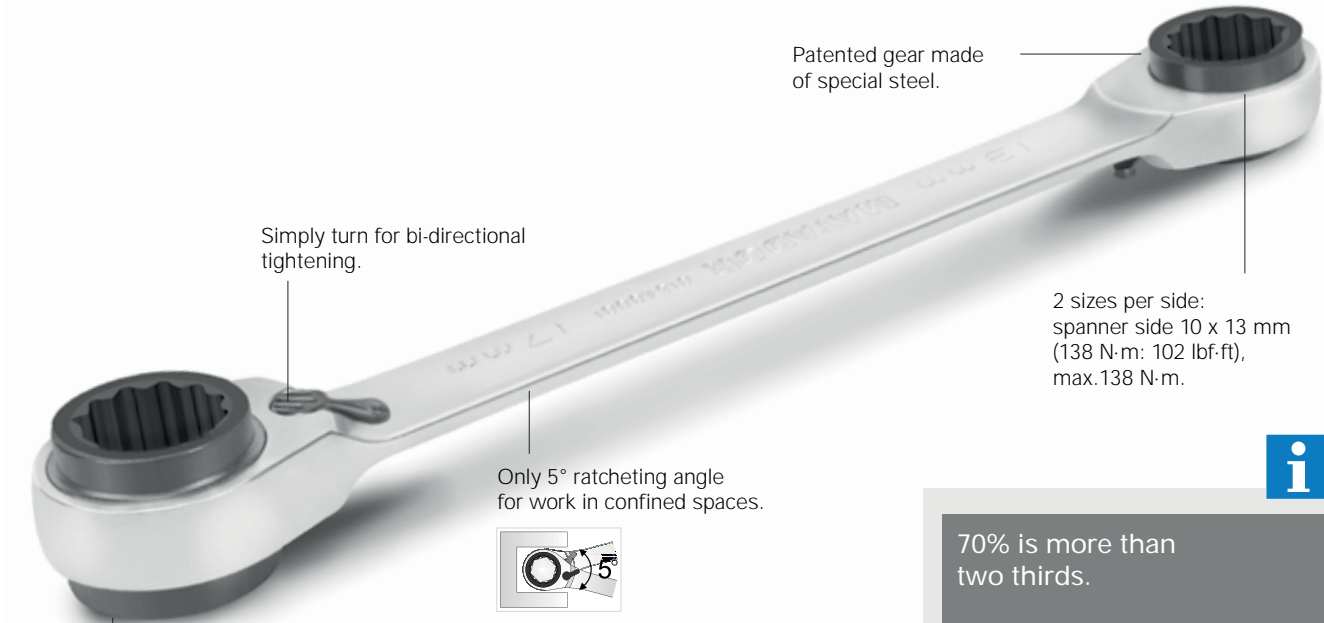
- Standards: DIN 3120 / ISO 1174 DIN 3126 / C 6,3
- Material: Chrome Vanadium
- Surface: Polished chrome finish



Art. Code	g	
0186 0010	60	1
Content	0186 6,3 (1/4) Bit - 6,3 (1/4) - 10 (3/8) - 12,5 (1/2) mm	

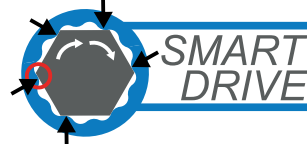
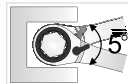
Ideal for mobile use.

4in1 Ratchet Spanner. Suitable for 70% of all screw tasks.



2 sizes per side:
spanner side 10 x 13 mm
(138 N·m: 102 lbf·ft),
max. 138 N·m.

2 sizes per side:
spanner side 17 x 19 mm
(387 N·m: 285 lbf·ft),
max. 387 N·m.



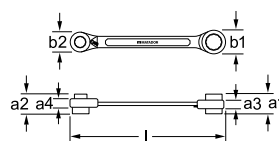
70% is more than two thirds.

MATADOR's ,4in1" ratchet spanner must not be missing in any modern tools assortment.

70% of all screws and nuts need a spanner size of 10, 13, 17 or 19 mm - and this is exactly what the ,4in1" ratchet spanner provides. Especially in cases when a complete spanner set is not at hand (e.g. during mobile use) **70% of all possible screw tasks** (thus more than two thirds!) can be solved **only with this single spanner** - with torque values exceeding those of a standard spanner.

0184 4in1 Ratchet Spanner

- 4 ratchet spanners in one tool, combines 10, 13, 17 and 19 mm
- For 70% of all screw tasks
- With patented ratchet gear ("Reverse Gear") made of special steel with 72 teeth
- Transmits very high torque values
 - Size 10 x 13 = max. 138 Nm
 - Size 17 x 19 = max. 387 Nm
- Only 5° ratcheting angle thanks to 72 teeth - especially suitable for confined spaces
- Material: Chrome Vanadium
- Surface: Matt chrome finish



Art. Code	mm	l mm	a1/a3 mm	a2/a4 mm	b1 mm	b2 mm	g	
0184 0001	10, 13, 17, 19	190	11.2 / 21.9	9.0 / 17.1	33.6	21.9	196	1



Ratchet spanners made of VA material.

MATADOR Stainless Steel Tools. Not only for high end users.



Screw joints made of stainless steel is more than a trend.

Since years stainless steel has become **more and more popular** due to its positive product features.

Stainless steel does not only look good but is also especially durable, environmentally friendly, resistant, versatile, extremely resilient, weatherproof, etc. In industry, medical supplies, environment, aerospace, architecture and construction stainless steels are meanwhile as indispensable as in everyday life in the kitchen, bathroom, in fun activities and sports.

In many fields of application stainless steel is meanwhile considered to be the dominant material – from the single screw up to most complex machines (mainly in food technology and in offshore technology) and even as building facades.

Due to its high chrome content which has to be at least 10.5% stainless steel normally cannot rust – provided that it is processed correctly and only comes in contact with the appropriate tools. But even on stainless steel rust can occur.

The use of the wrong tool can cause safety risks.

If conventional carbon steel tools are used to work on stainless steel, steel particles that abrade due to high torques can adhere and cause corrosion.

When exposed to oxygen even smallest steel particles can lead to the so-called „**extraneous rust**“.

Extraneous rust can impair the visual appearance but also destroy the structure of stainless steel surfaces. At first this might only be recognized as a defect in appearance but it can turn into a dangerous safety risk as soon as **pitting** occurs.

Stainless steel components should not come in contact with conventional steel tools but only with appropriate tools in order to prevent high repair costs and safety risks.

Thus the basic rule is:

Only use stainless steel tools to work on stainless steel!!

MATADOR: Stainless steel ratchet spanners.

The MATADOR stainless steel ratchet spanners combine three main advantages:

- They can be used in a very fastway
- They are extremely flat
- They are made of stainless steel

Due to stainless steel material they can be used **for all kind of stainless steel application**.

And finally VA material does not only have an aesthetic appearance but is also produced **without any galvanic treatment**. This is at the same time environmentally friendly, antiallergic and practical.

Just stainless steel.



What are the advantages of stainless steel ratchet spanners?

Since many years MATADOR ratchet spanners made of **VA material** are popular problem solvers – not only for stainless steel fixings. The especially durable and patented **Multigear® technique** with **72 teeth** allows fast and comfortable screwing with a ratcheting angle of less than 5°.

Thanks to the one-sided flat design these spanners even reach spaces where conventional combination spanners have no chance.

In addition MATADOR stainless steel ratchet spanners are **particularly durable** as to a large extent they do without potential wearing parts so that higher purchase prices amortize quickly. For instance switching from left to right hand use can be done by **simply turning around** (without lever).



The keys to success.

Give extraneous rust no chance.
And look especially good.



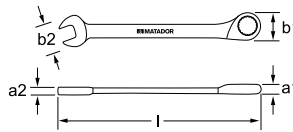
Asymmetric head for confined spaces.



0186 Stainless Steel Ratchet Spanners



- Ratchet spanners made of VA material
 - Cannot rust and no chrome can peel off during operation, thus ideal for outdoor work (shipbuilding, road construction, agriculture, general construction etc.)
 - With 72 teeth, very high torque values (exceeding DIN 3110 / ISO 3318)
 - With patented ratchet gear (Multigear®) made of special steel with 72 teeth, transmits very high torque values (exceeding DIN 3110 / ISO 3318)
 - Only 5° ratcheting angle thanks to 72 teeth - especially suitable for work in confined spaces
 - Simply turn around for right or left-hand use
- Material: Stainless steel
 - Surface: Without plating



Art. Code	mm	l mm	a1 mm	a2 mm	b1 mm	b2 mm	g
0186 0080	8	144	7.2	4.0	17	18	39
0186 0090	9	150	7.5	4.2	20	20	57
0186 0100	10	157	7.5	4.8	20	23	57
0186 0110	11	165	8.0	5.2	22	24	69
0186 0120	12	172	8.5	5.5	24	26	81
0186 0130	13	182	8.5	6.2	24	30	90
0186 0140	14	189	8.5	6.6	27	30	113
0186 0150	15	202	8.5	7.0	27	32	120
0186 0160	16	216	10.0	7.3	30	35	169
0186 0170	17	226	10.0	7.6	30	35	171
0186 0180	18	237	11.5	7.8	38	37	221
0186 0190	19	248	11.5	8.0	38	39	230

- Tried and tested assortments of combination ratchet spanners made of VA material
 - All important sizes in one set
 - Sets in practical, transparent polypropylene box
- Material: Stainless steel
 - Surface: Without plating

Art. Code	Content	g
0186 9060	0186 8 - 10 - 11 - 13 - 17 - 19 mm	750
0186 9080	0186 8 - 10 - 11 - 13 - 16 - 17 - 18 - 19 mm	1095



Rise to the challenge.

MATADOR Slogging Spanners.

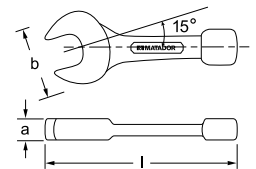


0175 Slogging Open Ended Spanners (MM)



- Tried and tested MATADOR classic
- For tightening and loosening of big screw joints, e.g. in heavy industry, shipbuilding, plant construction, etc.
- Ideal for the use with club hammer or air hammer
- Precisely drop-forged
- Very high impact strength
- Up to 500 mm made of Chrome Vanadium steel 31 CrV 3, from 525 mm made of C 35
- With zinc-plated surface for durable rust protection - not only sandblasted / oiled

- Standards: DIN 133 (except for special sizes *)
- Material: 31 CrV 3 / C 35
- Surface treatment: Zinc-plated



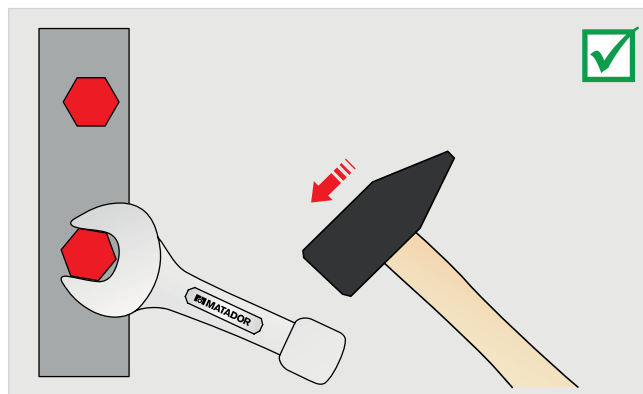
Art. Code	mm	l mm	a mm	b mm	g	
0175 0220	22*	180	16.0	55.0	280	1
0175 0240	24*	180	16.0	55.0	280	1
0175 0250	25*	180	16.0	55.0	320	1
0175 0260	26*	180	16.0	57.0	210	1
0175 0270	27	180	16.5	57.5	385	1
0175 0280	28*	180	16.0	57.0	280	1
0175 0290	29*	180	16.0	57.0	280	1
0175 0300	30	190	17.0	63.5	451	1
0175 0310	31*	190	17.0	62.0	440	1
0175 0320	32	195	17.5	66.5	552	1
0175 0330	33*	190	17.0	62.0	430	1
0175 0340	34	195	17.5	66.5	559	1
0175 0350	35*	215	19.0	76.0	745	1
0175 0360	36	210	18.5	75.5	709	1
0175 0370	37*	215	19.0	76.0	740	1
0175 0380	38*	215	19.0	76.0	680	1
0175 0390	39*	215	19.0	76.0	680	1
0175 0400	40*	235	19.0	86.0	900	1

Art. Code	mm	l mm	a mm	b mm	g	
0175 0410	41	225	19.5	88.0	1000	1
0175 0420	42*	235	19.0	86.0	900	1
0175 0430	43*	235	19.0	86.0	900	1
0175 0440	44*	235	19.0	86.0	900	1
0175 0450	45*	255	20.0	98.0	1200	1
0175 0460	46	255	20.0	98.0	1258	1
0175 0470	47*	255	20.0	98.0	1200	1
0175 0480	48*	255	20.0	98.0	1275	1
0175 0490	49*	275	21.0	105.0	1200	1
0175 0500	50	280	21.5	108.0	1609	1
0175 0510	51*	275	21.0	105.0	1450	1
0175 0520	52*	275	21.0	105.0	1450	1
0175 0530	53*	275	21.0	105.0	1450	1
0175 0540	54*	300	23.0	116.0	1900	1
0175 0550	55	310	24.0	118.5	2131	1
0175 0560	56*	300	23.0	116.0	1900	1
0175 0570	57*	300	23.0	116.0	1900	1
0175 0580	58*	300	23.0	116.0	1900	1

Art. Code	mm	l mm	a mm	b mm	g	
0175 0590	59*	320	25.0	128.0	2600	1
0175 0600	60	320	24.5	129.5	2484	1
0175 0610	61*	320	25.0	128.0	2600	1
0175 0620	62*	320	25.0	128.0	2600	1
0175 0630	63*	320	25.0	128.0	2600	1
0175 0640	64*	345	27.0	138.0	3300	1
0175 0650	65	342	28.0	140.5	3340	1
0175 0660	66*	342	27.0	138.0	3300	1
0175 0670	67*	342	27.0	138.0	3300	1
0175 0680	68*	342	27.0	138.0	3300	1
0175 0690	69*	375	30.0	154.0	4200	1
0175 0700	70	370	30.0	151.0	4325	1
0175 0710	71*	375	30.0	154.0	4200	1
0175 0720	72*	375	30.0	154.0	4200	1
0175 0750	75	400	31.5	163.0	5110	1
0175 0760	76*	375	30.0	154.0	4100	1
0175 0770	77*	375	30.0	154.0	4100	1
0175 0780	78*	375	30.0	154.0	4100	1
0175 0790	79*	408	34.0	174.0	5800	1
0175 0800	80	405	34.5	174.0	6020	1
0175 0810	81*	408	34.0	174.0	5800	1
0175 0820	82*	408	34.0	174.0	5800	1
0175 0830	83*	408	34.0	174.0	5800	1
0175 0840	84*	408	34.0	174.0	5800	1
0175 0850	85	405	34.5	174.0	5770	1
0175 0860	86*	408	34.0	174.0	5700	1
0175 0870	87*	408	34.0	174.0	5700	1
0175 0880	88*	408	34.0	174.0	5700	1
0175 0890	89*	445	38.0	194.0	7800	1
0175 0900	90	455	39.0	195.0	8905	1
0175 0910	91*	445	38.0	194.0	7800	1
0175 0920	92*	445	38.0	194.0	7800	1
0175 0930	93*	445	38.0	194.0	7800	1
0175 0940	94*	445	38.0	194.0	7800	1
0175 0950	95	455	39.0	195.0	8985	1
0175 0960	96*	445	38.0	194.0	7700	1
0175 0970	97*	445	38.0	194.0	7700	1
0175 0980	98*	485	44.0	215.0	11 150	1
0175 0990	99*	485	44.0	215.0	11 150	1
0175 1000	100	500	47.0	227.0	13 315	1
0175 1010	101*	485	44.0	215.0	11 150	1
0175 1020	102*	485	44.0	215.0	11 150	1
0175 1030	103*	485	44.0	215.0	11 150	1
0175 1040	104*	485	44.0	215.0	11 150	1
0175 1050	105	500	47.0	227.0	13 220	1
0175 1060	106*	485	44.0	215.0	11 050	1
0175 1070	107*	485	44.0	215.0	11 050	1
0175 1080	108*	510	47.0	235.0	14 100	1
0175 1090	109*	510	47.0	235.0	14 100	1
0175 1100	110	500	47.0	227.0	13 045	1
0175 1110	111*	510	47.0	235.0	14 100	1
0175 1120	112*	510	47.0	235.0	14 100	1
0175 1130	113*	510	47.0	235.0	14 100	1
0175 1140	114*	510	47.0	235.0	14 100	1
0175 1150	115	525	55.0	246.5	17 660	1
0175 1160	116*	510	47.0	235.0	13 300	1
0175 1170	117*	510	47.0	235.0	13 300	1
0175 1180	118*	510	47.0	235.0	13 300	1
0175 1190	119*	545	50.0	255.0	16 400	1

Art. Code	mm	l mm	a mm	b mm	g	
0175 1200	120	525	55.0	246.5	17 610	1
0175 1250	125*	545	50.0	255.0	16 760	1
0175 1270	127*	545	50.0	255.0	15 500	1
0175 1280	128*	545	50.0	255.0	15 500	1
0175 1300	130	575	55.0	275.0	19 030	1
0175 1350	135	575	55.0	275.0	18 880	1
0175 1360	136*	575	55.0	275.0	19 200	1
0175 1380	138*	575	55.0	275.0	19 200	1
0175 1400	140*	575	55.0	275.0	17 880	1
0175 1450	145	640	60.0	305.0	26 665	1
0175 1500	150	640	60.0	305.0	24 660	1
0175 1550	155	640	60.0	305.0	24 200	1
0175 1600	160*	640	60.0	305.0	25 690	1
0175 1650	165	715	70.0	342.0	39 560	1
0175 1700	170	715	70.0	342.0	37 760	1
0175 1750	175*	715	70.0	342.0	36 840	1
0175 1800	180*	715	70.0	392.0	37 000	1
0175 1850	185*	715	70.0	392.0	36 000	1
0175 1900	190*	800	78.0	392.0	53 300	1
0175 1950	195*	800	78.0	392.0	52 900	1
0175 2000	200*	800	78.0	392.0	52 500	1
0175 2050	205*	800	78.0	392.0	52 500	1
0175 2100	210*	800	78.0	392.0	51 700	1
0175 2150	215*	800	78.0	392.0	51 300	1
0175 2200	220*	800	72.0	415.0	51 300	1

* Made to order, no general stock size

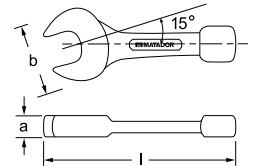


0175 Slogging Open Ended Spanners (AF)



- Tried and tested MATADOR classic
- For tightening and loosening of big screw joints, e.g. in heavy industry, shipbuilding, plant construction, etc.
- Ideal for the use with club hammer or air hammer
- Precisely drop-forged
- Very high impact strength
- Up to 500 mm made of Chrome Vanadium steel 31 CrV 3, from 525 mm made of C 35
- With zinc-plated surface for durable rust protection - not only sandblasted / oiled

- Standards: DIN 133 (except for special sizes *)
- Material: 31 CrV 3 / C 35
- Surface treatment: Zinc-plated



Art. Code	AF *	l mm	a mm	b mm	g
0175 8001	1*	180	16.5	57.5	340
0175 8002	1.1/16*	180	16.5	57.5	330
0175 8003	1.1/8*	180	16.5	57.5	310
0175 8004	1.3/16*	190	17.0	63.5	450
0175 8005	1.1/4*	190	17.0	63.5	450
0175 8006	1.5/16*	195	17.5	67.5	500
0175 8007	1.3/8*	195	17.5	67.5	500
0175 8008	1.7/16*	210	18.5	77.5	700
0175 8009	1.1/2*	210	18.5	77.5	700
0175 8010	1.9/16	215	19.5	89.0	800
0175 8011	1.5/8*	225	19.5	89.0	950
0175 8012	1.11/16*	225	19.5	89.0	950
0175 8013	1.3/4*	225	19.5	89.0	950
0175 8014	1.13/16*	255	20.0	99.0	1300
0175 8015	1.7/8*	255	20.0	99.0	1300
0175 8016	1.15/16 *	275	21.0	105.0	1045
0175 8017	2*	280	21.5	108.0	1700
0175 8018	2.1/16*	280	21.5	108.0	1700
0175 8019	2.1/8*	280	21.5	108.0	1700
0175 8020	2.3/16*	310	24.5	118.5	2250
0175 8021	2.1/4*	310	24.5	118.5	2250
0175 8022	2.5/16*	300	23.0	116.0	1900
0175 8023	2.3/8*	320	24.5	129.5	2700
0175 8024	2.7/16*	320	24.5	129.5	2700
0175 8025	2.1/2*	320	25.0	128.0	2600
0175 8026	2.9/16*	350	28.0	140.5	3300
0175 8027	2.5/8*	350	28.0	140.5	3300
0175 8028	2.11/16*	342	27.0	138.0	3300
0175 8029	2.3/4*	370	30.0	151.0	3900
0175 8030	2.13/16*	375	30.0	154.0	4200
0175 8031	2.7/8*	375	30.0	154.0	4200
0175 8032	2.15/16*	375	30.0	154.0	4100
0175 8033	3*	400	31.5	163.0	5250
0175 8034	3.1/8*	405	34.5	174.0	6000
0175 8035	3.1/4*	408	34.0	174.0	5800
0175 8036	3.3/8*	405	34.5	174.0	6100
0175 8037	3.7/16*	408	34.0	174.0	5800
0175 8038	3.1/2*	455	39.0	195.0	8000
0175 8039	3.9/16*	445	38.0	194.0	7800
0175 8040	3.5/8*	445	38.0	194.0	7800
0175 8041	3.3/4*	455	39.0	195.0	8100

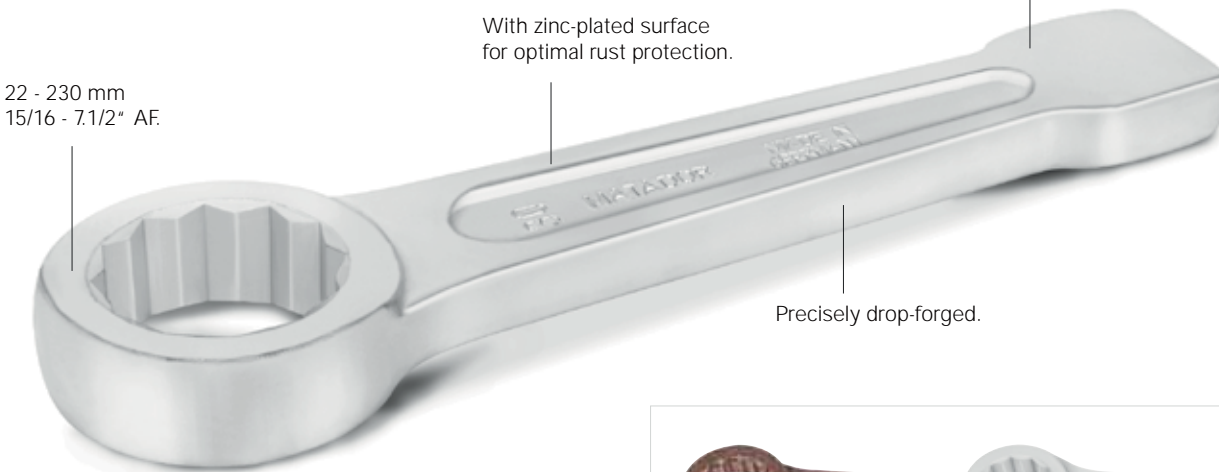
Art. Code	AF *	l mm	a mm	b mm	g
0175 8042	3.13/16*	445	38.0	194.0	7800
0175 8043	3.7/8*	500	47.0	227.0	12 900
0175 8044	4*	500	47.0	227.0	12 900
0175 8045	4.1/8*	500	47.0	227.0	12 900
0175 8046	4.3/16*	485	44.0	215.0	11 050
0175 8047	4.1/4*	510	47.0	235.0	14 100
0175 8048	4.5/16*	510	47.0	235.0	14 100
0175 8049	4.3/8*	510	47.0	235.0	14 100
0175 8050	4.7/16*	510	47.0	235.0	14 100
0175 8051	4.1/2*	525	55.0	246.0	17 200
0175 8052	4.9/16*	510	47.0	235.0	13 300
0175 8053	4.5/8*	510	47.0	235.0	13 300
0175 8054	4.3/4*	545	50.0	255.0	16 400
0175 8055	4.7/8*	545	50.0	255.0	16 400
0175 8056	5*	545	50.0	255.0	15 500
0175 8057	5.1/4*	575	55.0	275.0	19 800
0175 8058	5.1/2*	575	55.0	275.0	18 900
0175 8059	5.5/8*	640	60.0	305.0	27 100
0175 8060	6*	640	60.0	305.0	26 700

* Made to order, no general stock size



Rise to the challenge.

MATADOR Slogging Spanners.



22 - 230 mm
15/16 - 7 1/2" AF.

With zinc-plated surface
for optimal rust protection.

Broad impact area.

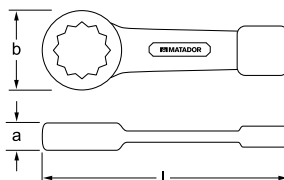
Precisely drop-forged.



0270 Slogging Ring Ended Spanners (MM)

- Tried and tested MATADOR classic
- For tightening and loosening of big screw joints, e.g. in heavy industry, shipbuilding, plant construction, etc.
- Ideal for the use with club hammer or air hammer
- Precisely drop-forged
- Very high impact strength
- Up to 435 mm made of Chrome Vanadium steel 31 CrV 3, from 480 mm made of C 35
- With zinc-plated surface for durable rust protection - not only sandblasted / oiled

- Standards: DIN 7444 (except for special sizes *)
- Material: 31 CrV 3 / C 35
- Surface treatment: Zinc-plated



Art. Code	mm	l mm	a mm	b mm	g	
0270 0220	22*	165	15.0	43.0	220	1
0270 0230	23*	165	15.0	43.0	220	1
0270 0240	24*	160	15.0	42.5	250	1
0270 0250	25*	165	15.0	43.0	220	1
0270 0260	26*	165	15.0	43.0	220	1
0270 0270	27	180	15.5	47.0	350	1
0270 0280	28*	180	16.0	46.0	320	1
0270 0290	29*	190	17.0	52.0	360	1
0270 0300	30	190	16.5	52.5	400	1
0270 0310	31*	190	17.0	52.0	360	1
0270 0320	32	195	16.5	54.0	450	1
0270 0330	33*	190	17.0	52.0	360	1
0270 0340	34	195	16.5	54.0	600	1
0270 0350	35*	205	18.0	58.0	500	1
0270 0360	36	205	19.5	60.0	750	1
0270 0370	37*	205	18.0	58.0	500	1
0270 0380	38*	205	19.5	60.0	660	1
0270 0390	39*	230	20.0	66.0	700	1
0270 0400	40*	230	20.0	66.0	700	1

Art. Code	mm	l mm	a mm	b mm	g	
0270 0410	41	225	20.5	66.0	850	1
0270 0420	42*	230	20.0	66.0	700	1
0270 0430	43*	230	20.0	66.0	700	1
0270 0440	44*	240	22.0	74.0	950	1
0270 0450	45*	240	22.0	74.0	950	1
0270 0460	46	240	22.5	75.0	1050	1
0270 0470	47*	240	22.0	74.0	950	1
0270 0480	48*	240	22.0	74.0	950	1
0270 0490	49*	255	24.0	80.0	1100	1
0270 0500	50	250	23.5	80.0	1250	1
0270 0510	51*	255	24.0	80.0	1100	1
0270 0520	52*	255	24.0	80.0	1100	1
0270 0530	53*	255	24.0	80.0	1100	1
0270 0540	54*	270	25.0	86.0	1400	1
0270 0550	55	270	25.0	87.5	1550	1
0270 0560	56*	270	25.0	86.0	1400	1
0270 0570	57*	270	25.0	86.0	1400	1
0270 0580	58*	270	25.0	86.0	1400	1
0270 0590	59*	280	26.0	93.0	1640	1

* Made to order, no general stock size



Art. Code	mm	l mm	a mm	b mm	g	
0270 0600	60	270	26.0	93.5	1650	1
0270 0610	61*	280	26.0	93.0	1640	1
0270 0620	62*	280	26.0	93.0	1640	1
0270 0630	63*	280	26.0	93.0	1640	1
0270 0640	64*	300	30.0	102.0	2150	1
0270 0650	65	290	29.0	101.0	2300	1
0270 0660	66*	300	30.0	102.0	2150	1
0270 0670	67*	300	30.0	102.0	2150	1
0270 0680	68*	300	30.0	102.0	2150	1
0270 0700	70	320	32.5	109.5	2600	1
0270 0710	71*	330	33.0	110.0	2950	1
0270 0720	72*	330	33.0	110.0	2950	1
0270 0730	73*	330	33.0	110.0	2950	1
0270 0740	74*	330	33.0	110.0	2800	1
0270 0750	75	325	34.0	114.5	3350	1
0270 0760	76*	330	33.0	110.0	2800	1
0270 0770	77*	330	33.0	110.0	2800	1
0270 0780	78*	330	33.0	110.0	2800	1
0270 0790	79*	360	36.0	126.0	4000	1
0270 0800	80	345	35.0	123.0	3800	1
0270 0810	81*	360	36.0	126.0	4000	1
0270 0820	82*	360	36.0	126.0	4000	1
0270 0830	83*	360	36.0	126.0	4000	1
0270 0840	84*	360	36.0	126.0	3850	1
0270 0850	85	360	37.0	129.0	4200	1
0270 0860	86*	360	36.0	126.0	3850	1
0270 0870	87*	360	36.0	126.0	3850	1
0270 0880	88*	360	36.0	126.0	3850	1
0270 0890	89*	390	40.0	142.0	5300	1
0270 0900	90	400	41.5	152.0	5700	1
0270 0910	91*	390	40.0	142.0	5300	1
0270 0920	92*	390	40.0	142.0	5300	1
0270 0930	93*	390	40.0	142.0	5300	1
0270 0940	94*	390	40.0	142.0	5300	1
0270 0950	95	400	41.5	152.0	5700	1
0270 0960	96*	390	40.0	142.0	5100	1
0270 0970	97*	390	40.0	142.0	5100	1
0270 0980	98*	420	45.0	155.0	6700	1
0270 0990	99*	420	45.0	155.0	6700	1
0270 1000	100	400	41.5	152.0	5700	1
0270 1010	101*	420	45.0	155.0	6700	1
0270 1020	102*	420	45.0	155.0	6700	1
0270 1030	103*	420	45.0	155.0	6700	1
0270 1040	104*	420	45.0	155.0	6700	1
0270 1050	105	435	47.5	172.0	8500	1
0270 1060	106*	420	45.0	155.0	6500	1
0270 1070	107*	420	45.0	155.0	6500	1
0270 1080	108*	450	48.0	170.0	8300	1
0270 1090	109*	450	48.0	170.0	8300	1
0270 1100	110	435	47.5	172.0	8500	1
0270 1110	111*	450	48.0	170.0	8300	1
0270 1120	112*	450	48.0	170.0	8300	1
0270 1130	113*	450	48.0	170.0	8300	1
0270 1140	114*	450	48.0	170.0	8300	1
0270 1150	115	435	47.5	172.0	8500	1
0270 1160	116*	450	48.0	170.0	7800	1
0270 1170	117*	450	48.0	170.0	7800	1
0270 1180	118*	480	54.0	182.0	9900	1
0270 1190	119*	480	54.0	182.0	9900	1

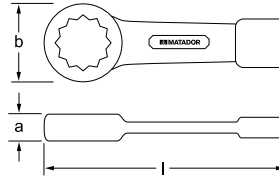
Art. Code	mm	l mm	a mm	b mm	g	
0270 1200	120	480	54.0	182.0	10 000	1
0270 1240	124*	480	54.0	182.0	9900	1
0270 1250	125*	480	54.0	182.0	10000	1
0270 1260	126*	480	54.0	182.0	9500	1
0270 1270	127*	480	54.0	182.0	9500	1
0270 1280	128*	480	54.0	182.0	9500	1
0270 1300	130	520	58.0	202.0	13 000	1
0270 1320	132*	520	58.0	202.0	12 700	1
0270 1340	134*	520	58.0	202.0	12 700	1
0270 1350	135	520	58.0	202.0	13 000	1
0270 1360	136*	520	58.0	202.0	12 700	1
0270 1370	137*	520	58.0	202.0	12 700	1
0270 1400	140*	520	58.0	202.0	13 000	1
0270 1410	141*	520	58.0	202.0	12 700	1
0270 1420	142*	580	64.0	228.0	19 300	1
0270 1440	144*	580	64.0	228.0	19 300	1
0270 1450	145	580	64.0	228.0	18 000	1
0270 1500	150	580	64.0	228.0	18 000	1
0270 1550	155	580	64.0	228.0	18 000	1
0270 1600	160*	580	64.0	228.0	18 000	1
0270 1620	162*	580	64.0	228.0	19 300	1
0270 1650	165	650	70.0	265.0	25 000	1
0270 1700	170	650	70.0	265.0	25 000	1
0270 1750	175*	650	70.0	265.0	25 000	1
0270 1800	180*	650	70.0	265.0	24 600	1
0270 1850	185*	700	75.0	290.0	33 000	1
0270 1870	187*	700	75.0	290.0	32 600	1
0270 1900	190*	700	75.0	290.0	32 600	1
0270 1930	193*	700	75.0	290.0	32 600	1
0270 1950	195*	700	75.0	290.0	31 800	1
0270 2000	200*	700	75.0	290.0	32 000	1
0270 2050	205*	750	80.0	320.0	40 500	1
0270 2100	210*	750	80.0	320.0	39 500	1
0270 2150	215*	750	80.0	320.0	39 000	1
0270 2200	220*	750	80.0	320.0	37 400	1
0270 2250	225*	750	80.0	320.0	36 400	1
0270 2300	230*	750	80.0	320.0	35 400	1

* Made to order, no general stock size



0270 Slogging Ring Ended Spanners (AF)

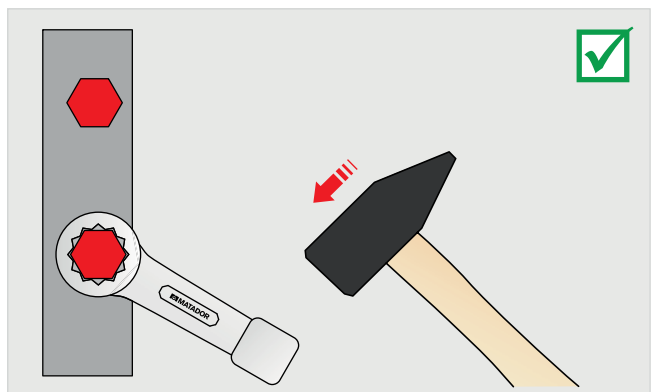
- Tried and tested MATADOR classic
- For tightening and loosening of big screw joints, e.g. in heavy industry, shipbuilding, plant construction, etc.
- Ideal for the use with club hammer or air hammer
- Precisely drop-forged
- Very high impact strength
- Up to 435 mm made of Chrome Vanadium steel 31 CrV 3, from 480 mm made of C 35
- With zinc-plated surface for durable rust protection - not only sandblasted / oiled
- Standards: DIN 7444 (except for special sizes *)
- Material: 31 CrV 3 / C 35
- Surface treatment: Zinc-plated



Art. Code	" AF	l mm	a mm	b mm	g	
0270 8001	15/16	160	15.0	42.5	1400	1
0270 8002	1*	160	15.0	42.5	1640	1
0270 8003	1.1/16*	185	15.5	48.5	1650	1
0270 8004	1.1/8*	185	15.5	48.5	1640	1
0270 8005	1.3/16*	190	16.5	52.5	1640	1
0270 8006	1.1/4*	190	16.5	52.5	1640	1
0270 8007	1.5/16*	195	16.5	54.0	2150	1
0270 8008	1.3/8*	195	16.5	54.0	2300	1
0270 8009	1.7/16*	205	19.5	60.0	2150	1
0270 8010	1.1/2*	205	19.5	60.0	2150	1
0270 8011	1.9/16*	230	20.0	66.0	2150	1
0270 8012	1.5/8*	225	20.5	66.0	2600	1
0270 8013	1.11/16*	225	20.5	66.0	2950	1
0270 8014	1.3/4*	225	20.5	66.0	2950	1
0270 8015	1.13/16*	240	22.5	75.0	2950	1
0270 8016	1.7/8*	240	22.5	75.0	2800	1
0270 8017	1.15/16*	255	24.0	80.0	3350	1
0270 8018	2*	250	23.5	80.0	2800	1
0270 8019	2.1/16*	250	23.5	80.0	2800	1
0270 8020	2.1/8*	250	23.5	80.0	2800	1
0270 8021	2.3/16*	270	25.0	87.5	4000	1
0270 8022	2.1/4*	270	25.0	87.5	3800	1
0270 8023	2.5/16*	280	26.0	93.0	4000	1
0270 8024	2.3/8*	270	26.0	93.5	4000	1
0270 8025	2.7/16*	270	26.0	93.5	4000	1
0270 8026	2.1/2*	280	26.0	93.0	3850	1
0270 8027	2.9/16*	290	29.0	101.0	4200	1
0270 8028	2.5/8*	290	29.0	101.0	3850	1
0270 8029	2.11/16*	300	30.0	102.0	3850	1
0270 8030	2.3/4*	320	32.5	109.5	3850	1
0270 8031	2.13/16*	330	33.0	110.0	5300	1
0270 8032	2.7/8*	330	33.0	110.0	5700	1
0270 8033	2.15/16*	330	33.0	110.0	5300	1
0270 8034	3*	325	34.0	114.5	5300	1
0270 8035	3.1/16*	330	33.0	110.0	5300	1
0270 8036	3.1/8*	345	35.0	123.0	5300	1
0270 8037	3.3/16*	360	36.0	126.0	5700	1
0270 8038	3.1/4*	360	36.0	126.0	5100	1
0270 8039	3.5/16*	360	36.0	126.0	5100	1
0270 8040	3.3/8*	360	36.0	126.0	6700	1
0270 8041	3.7/16*	360	36.0	126.0	6700	1
0270 8042	3.1/2*	390	40.0	142.0	5700	1
0270 8043	3.9/16*	390	40.0	142.0	6700	1
0270 8044	3.5/8*	390	40.0	142.0	6700	1
0270 8045	3.11/16*	390	40.0	142.0	6700	1
0270 8046	3.3/4*	400	41.5	152.0	6700	1

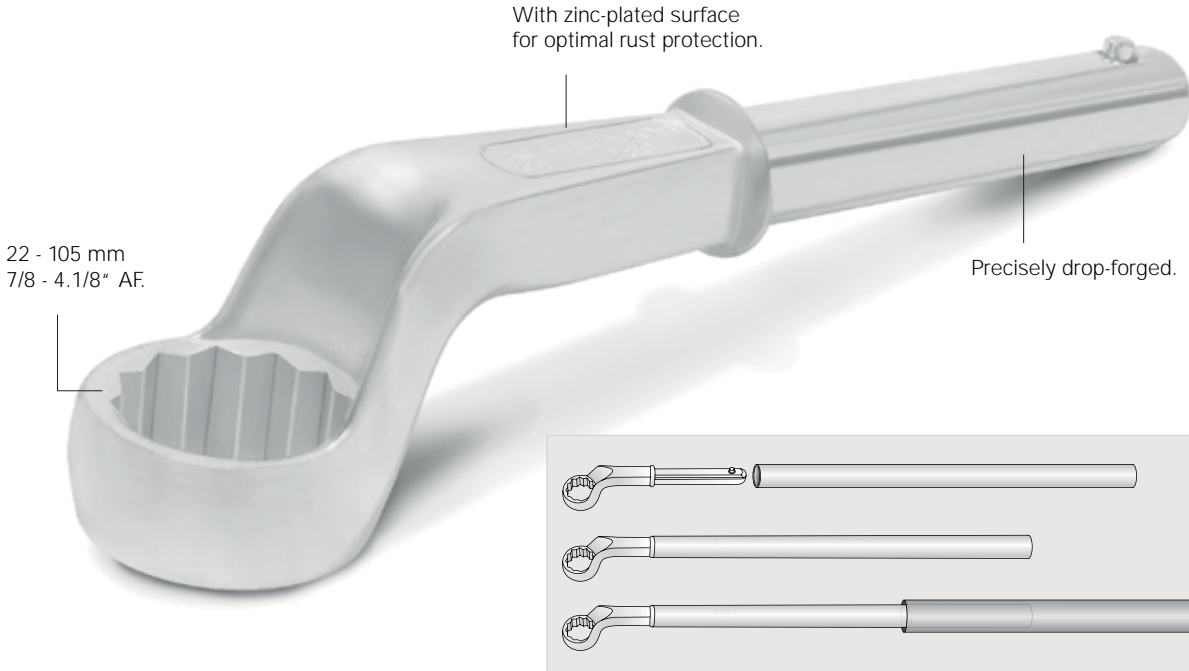
Art. Code	" AF	l mm	a mm	b mm	g	
0270 8047	3.13/16*	390	40.0	142.0	8500	1
0270 8048	3.7/8*	420	45.0	155.0	6500	1
0270 8049	3.15/16*	420	45.0	155.0	6500	1
0270 8050	4*	420	45.0	155.0	8300	1
0270 8051	4.1/16*	420	45.0	155.0	8300	1
0270 8052	4.1/8*	420	45.0	155.0	8500	1
0270 8053	4.3/16*	420	45.0	155.0	8300	1
0270 8054	4.1/4*	450	48.0	170.0	8300	1
0270 8055	4.5/16*	450	48.0	170.0	8300	1
0270 8056	4.3/8*	450	48.0	170.0	8300	1
0270 8057	4.7/16*	450	48.0	170.0	8500	1
0270 8058	4.1/2*	450	48.0	170.0	7800	1
0270 8059	4.9/16*	450	48.0	170.0	7800	1
0270 8060	4.5/8*	450	48.0	170.0	9900	1
0270 8061	4.3/4*	480	54.0	182.0	9900	1
0270 8062	4.13/16*	480	54.0	182.0	10 000	1
0270 8063	4.7/8*	480	54.0	182.0	9900	1
0270 8064	5*	480	54.0	182.0	10 000	1
0270 8065	5.1/8*	520	58.0	202.0	9500	1
0270 8066	5.3/16*	520	58.0	202.0	9500	1
0270 8067	5.1/4*	520	58.0	202.0	9500	1
0270 8068	5.1/2*	520	58.0	202.0	13 000	1
0270 8069	5.3/8*	520	58.0	202.0	12 700	1
0270 8070	5.5/8*	580	64.0	228.0	12 700	1
0270 8071	5.3/4*	580	64.0	228.0	13 000	1
0270 8072	5.7/8*	580	64.0	228.0	12 700	1
0270 8073	6*	580	64.0	228.0	12 700	1
0270 8074	6.1/8*	580	64.0	228.0	13 000	1
0270 8075	6.1/4*	580	64.0	228.0	12 700	1
0270 8076	6.3/8*	580	64.0	228.0	19 300	1
0270 8077	7.1/2*	700	75.0	290.0	19 300	1

* Made to order, no general stock size



Long lever - large impact.

MATADOR Heavy Duty Ring Spanners.

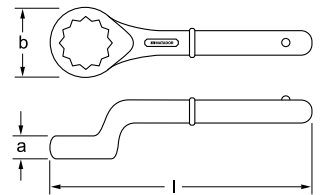


0280 Heavy Duty Ring Spanners (MM)



- Tried and tested MATADOR classic
- For tightening and loosening of big screw joints, e.g. in heavy industry, shipbuilding, plant construction, etc.
- Precisely drop-forged
- Very high impact strength
- Very high power together with extension pipe
- With zinc-plated surface for durable rust protection

- Material: 31 CrV 3
- Surface: Matt chrome finish



Art. Code	mm	l mm	a mm	b mm	g	
0280 0220	22*	180	17.0	36.0	380	1
0280 0240	24	180	17.0	38.0	350	1
0280 0250	25*	180	17.0	38.0	380	1
0280 0260	26*	190	17.0	42.0	430	1
0280 0270	27	190	17.4	42.0	400	1
0280 0280	28*	190	17.0	42.0	430	1
0280 0290	29*	200	18.4	47.0	550	1
0280 0300	30	200	18.4	47.0	450	1
0280 0310	31*	200	18.4	47.0	700	1
0280 0320	32	235	18.4	50.0	550	1
0280 0330	33*	235	18.4	50.0	700	1
0280 0340	34	235	18.4	50.0	650	1
0280 0350	35*	245	20.0	55.0	840	1
0280 0360	36	245	20.0	55.0	650	1
0280 0370	37*	245	20.0	55.0	840	1

Art. Code	mm	l mm	a mm	b mm	g	
0280 0380	38	250	21.0	55.0	840	1
0280 0390	39*	250	21.0	55.0	850	1
0280 0400	40*	265	22.0	61.5	750	1
0280 0410	41	265	22.0	61.5	1000	1
0280 0420	42*	265	22.0	61.5	1000	1
0280 0430	43*	265	22.0	61.5	1000	1
0280 0440	44*	280	23.0	68.5	1300	1
0280 0450	45*	280	23.0	68.5	1300	1
0280 0460	46	280	23.0	68.5	1050	1
0280 0470	47*	280	23.0	68.5	1300	1
0280 0480	48*	290	25.5	75.0	1450	1
0280 0490	49*	290	25.5	75.0	1450	1
0280 0500	50	290	25.5	75.0	1150	1
0280 0510	51*	290	25.5	75.0	1450	1
0280 0520	52*	290	25.5	75.0	1450	1

Art. Code	mm	l mm	a mm	b mm	g	
0280 0530	53*	300	28.0	80.0	1500	1
0280 0540	54*	300	28.0	80.0	1500	1
0280 0550	55	300	28.0	80.0	1400	1
0280 0560	56*	300	28.0	80.0	1500	1
0280 0570	57*	300	28.0	80.0	1500	1
0280 0580	58*	300	28.0	80.0	1500	1
0280 0590	59*	345	30.5	89.0	2300	1
0280 0600	60	345	30.5	89.0	2100	1
0280 0610	61*	345	30.5	89.0	2300	1
0280 0620	62*	345	30.5	89.0	2300	1
0280 0630	63*	345	30.5	89.0	2300	1
0280 0640	64*	355	33.0	97.0	2370	1
0280 0650	65	355	33.0	97.0	2300	1
0280 0670	67*	355	33.0	97.0	2370	1
0280 0680	68*	355	33.0	97.0	2370	1
0280 0700	70	365	35.5	104.0	2600	1
0280 0710	71*	365	35.5	104.0	2800	1
0280 0720	72*	375	38.0	109.0	3000	1
0280 0730	73*	375	38.0	109.0	3000	1
0280 0740	74*	375	38.0	109.0	3000	1
0280 0750	75	375	38.0	109.0	3000	1
0280 0760	76*	375	38.0	109.0	3000	1
0280 0770	77*	385	40.5	124.0	3500	1
0280 0780	78*	385	40.5	124.0	3500	1
0280 0800	80	385	40.5	124.0	3450	1

Art. Code	mm	l mm	a mm	b mm	g	
0280 0810	81*	385	40.5	124.0	3500	1
0280 0820	82*	385	40.5	124.0	3500	1
0280 0850	85	385	40.5	124.0	3800	1
0280 0860	86*	385	40.5	124.0	3500	1
0280 0870	87*	410	45.0	140.0	4900	1
0280 0880	88*	410	45.0	140.0	4900	1
0280 0900	90	410	45.0	140.0	4875	1
0280 0910	91*	410	45.0	140.0	4900	1
0280 0940	94*	410	45.0	140.0	4900	1
0280 0950	95	410	45.0	140.0	4565	1
0280 0960	96*	410	45.0	140.0	4900	1
0280 0970	97*	410	45.0	140.0	4900	1
0280 0980	98*	410	45.0	140.0	4900	1
0280 0990	99*	410	45.0	140.0	4900	1
0280 1000	100*	410	45.0	140.0	4900	1
0280 1020	102*	412	45.0	142.0	4900	1
0280 1040	104*	415	45.0	144.0	4900	1
0280 1050	105*	415	45.0	144.0	4900	1

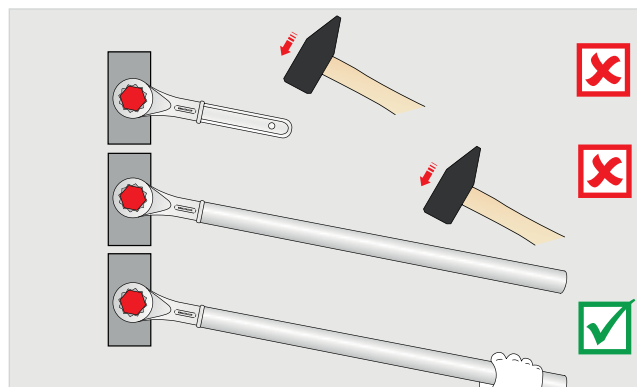
* Made to order, no general stock size

0280 Heavy Duty Ring Spanners (AF)

Art. Code	* AF	l mm	a mm	b mm	g	
0280 8001	7/8*	180	17.0	36.0	380	1
0280 8002	15/16*	180	17.0	36.0	350	1
0280 8003	1.1/8*	200	18.4	47.0	550	1
0280 8004	1.3/16*	200	18.4	47.0	550	1
0280 8005	1.1/4*	235	18.4	50.0	700	1
0280 8006	1.5/16*	235	18.4	50.0	700	1
0280 8007	1.3/8*	245	20.0	55.0	840	1
0280 8008	1.7/16*	245	20.0	55.0	840	1
0280 8009	1.1/2*	245	20.0	55.0	840	1
0280 8010	1.9/16*	265	22.0	61.5	1000	1
0280 8011	1.5/8*	265	22.0	61.5	1000	1
0280 8012	1.11/16*	265	22.0	61.5	1000	1
0280 8013	1.3/4*	280	23.0	68.5	1300	1
0280 8014	1.13/16*	280	23.0	68.5	1300	1
0280 8015	1.7/8*	280	23.0	68.5	1300	1
0280 8016	1.15/16*	290	25.5	75.0	1450	1
0280 8017	2*	290	25.5	75.0	1450	1
0280 8018	2.1/16*	290	25.5	75.0	1450	1
0280 8019	2.1/8*	300	28.0	80.0	1500	1
0280 8020	2.3/16*	300	28.0	80.0	2800	1
028 8021	2.1/4*	300	28.0	80.0	1500	1
0280 8022	2.5/16*	345	30.5	89.0	3000	1
0280 8023	2.3/8*	345	30.5	89.0	2300	1
0280 8024	2.7/16*	345	30.5	89.0	2300	1
0280 8025	2.1/2*	355	33.0	97.0	2370	1
0280 8026	2.9/16*	355	33.0	97.0	2370	1
0280 8027	2.5/8*	355	33.0	97.0	2370	1
0280 8028	2.11/16*	355	33.0	97.0	2370	1

Art. Code	* AF	l mm	a mm	b mm	g	
0280 8029	2.3/4*	365	35.5	104.0	2800	1
0280 8030	2.13/16*	365	35.5	104.0	1500	1
0280 8031	2.7/8*	375	38.0	109.0	3000	1
0280 8032	2.15/16*	375	38.0	109.0	2300	1
0280 8033	3*	375	38.0	109.0	3000	1
0280 8034	3.1/8*	385	40.5	124.0	3500	1
0280 8035	3.1/4*	385	40.5	124.0	3500	1
0280 8036	3.3/8*	385	40.5	124.0	3500	1
0280 8037	3.1/2*	410	45.0	140.0	4900	1
0280 8038	3.5/8*	410	45.0	140.0	4900	1
0280 8039	3.3/4*	410	45.0	140.0	4980	1
0280 8040	3.7/8*	410	45.0	140.0	4900	1
0280 8041	4*	410	45.0	140.0	4900	1
0280 8042	4.1/8*	420	45.0	155.0	6205	1

* Made to order, no general stock size



Long lever - large impact.

The perfect leverage effect.



← N-m max.

- Spanner: 22 - 30 mm, Pipe: 0280 9190
- Spanner: 32 - 41 mm, Pipe: 0280 9220
- Spanner: 46 - 55 mm, Pipe: 0280 9250
- Spanner: 60 - 105 mm, Pipe: 0280 9300

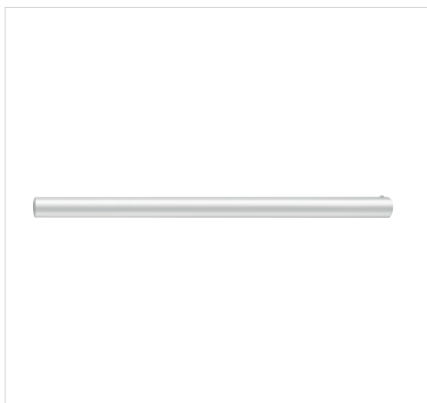
The perfect leverage effect.

Very convenient: The perfectly fitting extension pipes for MATADOR Heavy Duty Ring Spanners.

The increased lever transmission makes it possible to move big screws manually with relatively little effort. The locking pin allows quick assembly and disassembly.

Available in four sizes up to 105 mm. Special sizes on request.

0280 Extension Pipes for Heavy Duty Ring Spanners



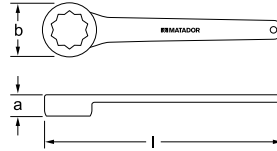
- For extension of the lever arm and increased force action
- With hole for safe locking and unlocking
- Material: 31 CrV 3
- Surface treatment: Zinc-plated

Art. Code	mm	mm	" AF	l mm	g	
0280 9190	19	22 - 30	7/8 - 1.3/16	460	600	1
0280 9220	22	32 - 41	1.1/4 - 1.11/16	610	1150	1
0280 9250	25	46 - 55	1.3/4 - 2.1/4	760	2150	1
0280 9300	30	60 - 105	2.3/8 - 4.1/8	860	2850	1



0285 Single Ended Ring Spanners (MM)

- For tightening and loosening of big screw joints, e.g. in heavy industry, shipbuilding, plant construction, etc.
- Precisely drop-forged
- Very high impact strength
- AF sizes on request
- Standards: DIN 3111 (except for special sizes*)
- Material: Tempered steel as per EN 10083
- Surface: Steel-grey



Art. Code	mm	l mm	a mm	b mm	g	
0285 0130	13*	138	8.3	25.0	80	1
0285 0140	14*	138	8.3	25.0	80	1
0285 0150	15*	138	8.3	25.0	80	1
0285 0160	16*	155	9.5	31.0	80	1
0285 0170	17*	155	9.5	31.0	80	1
0285 0180	18*	155	9.5	31.0	80	1
0285 0190	19*	171	11.5	34.0	100	1
0285 0200	20*	171	11.5	34.0	100	1
0285 0210	21*	190	13.0	37.5	140	1
0285 0220	22*	190	13.0	37.5	140	1
0285 0240	24*	215	15.0	38.5	200	1
0285 0250	25*	215	15.0	38.5	200	1
0285 0260	26*	230	16.0	41.5	240	1
0285 0270	27	230	16.0	41.5	240	1
0285 0280	28*	230	16.0	41.5	240	1
0285 0290	29*	254	18.0	47.5	300	1
0285 0300	30	254	18.0	47.5	300	1
0285 0320	32	265	19.0	49.0	358	1
0285 0330	33*	265	19.0	49.0	350	1
0285 0340	34*	295	22.0	56.0	500	1
0285 0360	36*	310	22.0	56.0	473	1
0285 0380	38*	295	22.0	56.0	500	1
0285 0390	39*	330	25.0	63.5	700	1

Art. Code	mm	l mm	a mm	b mm	g	
0285 0410	41	330	25.0	63.5	717	1
0285 0430	43*	330	25.0	63.5	700	1
0285 0440	44*	365	27.0	70.5	950	1
0285 0460	46	365	27.0	70.5	925	1
0285 0470	47*	365	27.0	70.5	950	1
0285 0500	50	400	28.0	77.0	1230	1
0285 0520	52*	400	28.0	77.0	1300	1
0285 0550	55	445	29.5	83.5	1626	1
0285 0560	56*	442	29.5	83.5	1550	1
0285 0570	57*	442	29.5	83.5	1550	1
0285 0580	58*	442	29.5	83.5	1550	1
0285 0600	60	475	30.0	89.5	1792	1
0285 0650	65*	510	32.0	97.0	2208	1
0285 0700	70	555	35.0	106.0	2600	1
0285 0750	75	590	38.0	114.0	3200	1
0285 0800	80	620	40.0	120.5	3800	1
0285 0850	85	665	42.0	127.5	4400	1
0285 0900	90	698	45.0	135.5	5800	1
0285 0950	95	700	45.0	140.0	5500	1

* Made to order, no general stock size

0285 Single Ended Ring Spanners (AF)

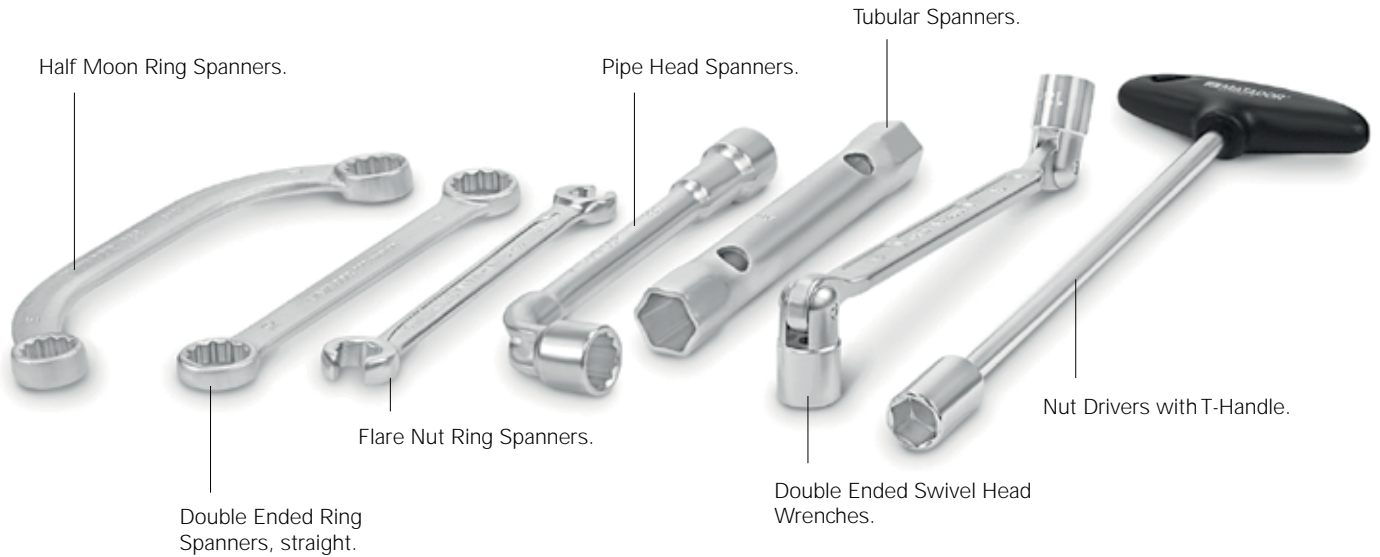
Art. Code	* AF	mm	a mm	b mm	g	
0285 8001	13/16 *	171	11.5	34.0	100	1
0285 8002	7/8 *	215	15.0	38.5	140	1
0285 8003	15/16 *	215	15.0	38.5	200	1
0285 8004	1.1/16 *	230	16.0	41.5	240	1
0285 8005	1.1/8 *	230	16.0	41.5	240	1
0285 8006	1.1/4 *	265	19.0	49.0	350	1
0285 8007	1.5/16 *	265	19.0	49.0	350	1
0285 8008	1.3/8 *	295	22.0	56.0	500	1
0285 8009	1.1/2 *	295	22.0	56.0	500	1
0285 8010	1.5/8 *	330	25.0	63.5	700	1
0285 8011	1.11/16 *	330	25.0	63.5	700	1
0285 8012	1.3/4 *	365	27.0	70.5	950	1
0285 8013	1.13/16 *	365	27.0	70.5	950	1
0285 8014	1.7/8 *	365	27.0	70.5	950	1
0285 8015	2 *	400	28.0	77.0	1300	1
0285 8016	2.1/4 *	442	29.5	83.5	1550	1
0285 8017	2.3/8 *	475	30.0	89.5	1800	1

Art. Code	* AF	mm	a mm	b mm	g	
0285 8018	2.1/2 *	510	32.0	97.0	2300	1
0285 8019	2.5/8 *	510	32.0	97.0	2300	1
0285 8020	2.3/4 *	555	35.0	106.0	2600	1
0285 8021	2.15/16 *	590	38.0	114.0	3200	1
0285 8022	3 *	590	38.0	114.0	3200	1
0285 8023	3.1/8 *	620	40.0	120.5	3800	1

* Made to order, no general stock size

For confined spaces and special applications.

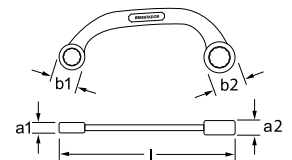
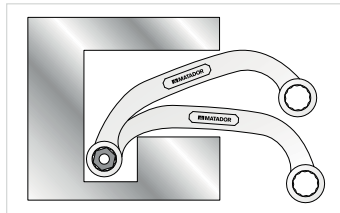
The specials from MATADOR.



0188 Half Moon Ring Spanners



- Double ended ring spanners with curved shaft and extra thin-walled rings for work in confined spaces (e. g. car engine block, carburettor / starter, electric generator etc.)
- High-grade, durable industrial quality
- Good grip thanks to matt chrome-plated surface, also with oily hands
- Material: Chrome Vanadium
- Surface: Matt chrome finish

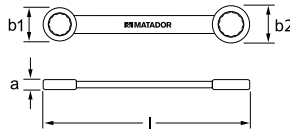


Art. Code	mm	l mm	a1 mm	a2 mm	b1 mm	b2 mm	g	
0188 1012	10 x 12	150	7.0	7.0	17.0	20.0	55	10
0188 1113	11 x 13	150	7.0	7.0	17.0	20.0	55	10
0188 1315	13 x 15	185	9.0	9.0	21.5	26.0	110	10
0188 1416	14 x 16	185	9.0	9.0	21.5	26.0	110	10
0188 1417	14 x 17	185	9.0	9.0	21.5	26.0	110	10
0188 1517	15 x 17	185	9.0	9.0	21.5	26.0	100	10
0188 1618	16 x 18	185	9.0	9.0	21.5	26.0	100	10
0188 1922	19 x 22	230	11.0	11.0	29.0	33.0	195	10



0220 Double Ended Ring Spanners, straight

- Straight double ended ring spanners with extra-thin walled rings for work in confined spaces
- High-grade, durable industrial quality
- Good grip thanks to matt chrome-plated surface, also with oily hands
- Heads grinded fully automatically
- Standards: DIN 837 Form B ISO 3318 / 1085
- Material: Chrome Vanadium
- Surface: Matt chrome finish



Art. Code	mm	l mm	a mm	b1 mm	b2 mm	g	
0220 0607	6 x 7	100	4.5	10.0	11.5	14	10
0220 0809	8 x 9	115	5.2	13.0	14.5	24	10
0220 0810	8 x 10	115	5.2	13.0	16.0	22	10
0220 1011	10 x 11	130	5.8	16.0	17.0	34	10
0220 1213	12 x 13	150	6.4	19.0	20.5	49	10
0220 1315	13 x 15	160	7.2	20.5	23.0	64	10
0220 1317	13 x 17	165	7.8	20.5	25.5	74	10
0220 1415	14 x 15	160	7.2	21.5	23.0	64	10
0220 1617	16 x 17	170	7.8	24.5	25.5	84	10
0220 1719	17 x 19	185	8.5	25.5	28.0	98	10
0220 1819	18 x 19	185	8.5	27.0	28.0	106	10
0220 2022	20 x 22	210	9.4	29.5	32.5	134	10
0220 2123	21 x 23	230	10.0	30.5	33.5	171	10
0220 2224	22 x 24	230	10.0	32.5	35.5	184	10
0220 2427	24 x 27	260	10.8	35.5	39.0	249	10
0220 2528	25 x 28	290	11.6	36.5	41.0	273	10
0220 3032	30 x 32	320	12.6	43.5	46.0	399	10

- Set in PP-Box

Art. Code	g	
0220 9080	430	1
Content	0220 6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 mm	
0220 9120	1260	1
Content	0220 6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 - 21 x 23 - 24 x 27 - 25 x 28 - 30 x 32 mm	



0221 Double Ended Ring Spanners, TORX®

- as above, but TORX® profile
- Material: Chrome Vanadium
- Surface: Matt chrome finish

Art. Code	E	l mm	a1 mm	a2 mm	b1 mm	b2 mm	g	
0221 0608	6 x 8	110	4.6	5.6	9.2	11.2	20	10
0221 1012	10 x 12	140	6.5	7.8	14.4	16.7	31	10
0221 1418	14 x 18	180	8.2	9.8	17.2	21.2	75	10
0221 2024	20 x 24	225	11.0	13.0	24.8	28.7	158	10

- Set in carton box

Art. Code	g	
0221 9080	430	1
Content	0221 6 x 8 - 10 x 12 - 14 x 18 - 20 x 24 mm	

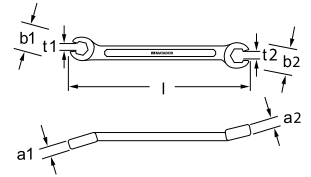


0251 Flare Nut Ring Spanners, open



- For cap nuts at pipelines, ideal for brake lines
- Drop-forged with reinforced ring
- Jaws slotted and 15° offset from shaft
- Up to size 13 × 14 mm with hexagon profile, from size 14 × 17 mm with double hexagon profile

- Standards: DIN 3118
- Material: Chrome Vanadium
- Surface: Matt chrome finish



Art. Code	mm	l mm	t1 mm	t2 mm	a1 mm	a2 mm	b1 mm	b2 mm	g	
0251 0810	8 x 10	145	6.0	7.0	7.0	8.5	18.0	20.0	47	10
0251 1011	10 x 11	152	7.0	8.5	8.5	9.0	20.0	22.0	60	10
0251 1012	10 x 12	152	7.0	9.0	8.5	9.0	20.0	22.6	60	10
0251 1113	11 x 13	165	8.5	10.0	9.0	10.5	22.0	25.0	78	10
0251 1314	13 x 14	178	10.0	11.0	9.5	11.0	24.0	27.4	120	10
0251 1417	14 x 17	196	11.0	14.0	11.0	12.0	27.4	30.0	145	10
0251 1719	17 x 19	210	14.0	15.0	12.0	14.0	30.0	32.5	180	10
0251 1922	19 x 22	233	15.0	17.0	14.0	16.0	32.5	38.0	240	5
0251 2224	22 x 24	252	17.0	18.0	16.0	17.0	38.0	41.0	300	5
0251 2427	24 x 27	265	18.0	20.0	17.0	18.0	41.0	45.0	350	5
0251 2736	27 x 36	285	20.0	22.0	18.0	25.0	45.0	58.0	470	5
0251 3032	30 x 32	285	22.0	24.0	21.0	23.0	48.5	51.0	470	5
0251 3641	36 x 41	350	27.0	32.0	25.0	27.0	58.0	65.0	820	5



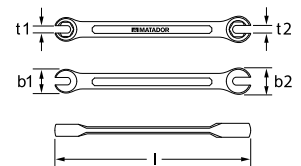
- Tried and tested assortment of open flare nut ring spanners
- All important sizes in one set
- Set in practical, transparent polypropylene box: robust packaging, stackable and easy to stock, reclosable, reusable and with hanging hole for tool panels

Art. Code	g	
0251 9050	550	1
Content	8 x 10 - 10 x 12 - 11 x 13 - 14 x 17 - 19 x 22 mm	

0250 Flare Nut Ring Spanners, open



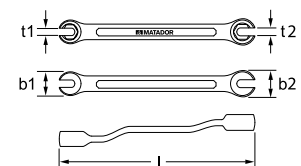
- Straight, reinforced type, especially for screwed connections on brake lines
- Straight slotted, with hexagon ring
- Material: Chrome Vanadium
- Surface: Matt chrome finish



Art. Code	mm	l mm	t1 mm	t2 mm	b1 mm	b2 mm	g	
0250 0001	10 x 11	150	7.0	8.5	20.5	22.3	170	10



- Offset, reinforced type, especially for screwed connections on brake lines
- Straight slotted, with hexagon ring
- Material: Chrome Vanadium
- Surface: Matt chrome finish



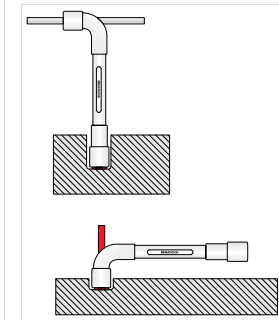
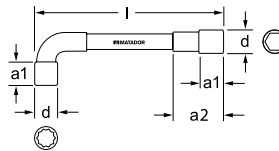
Art. Code	mm	l mm	t1 mm	t2 mm	b1 mm	b2 mm	g	
0250 0002	10 x 11	150	7.0	8.5	20.5	22.3	170	10



0320 Pipe Head Spanners

- For stud bolts and deep-set nuts
- With go-through borehole on the short side for the use of tommy bars (Art. Code 342)
- Short side with double hexagon profile, long side with hexagon profile
- Good grip thanks to matt chrome plated surface, also with oily hands

- Material: Chrome Vanadium
- Surface: Matt chrome finish



Art. Code	mm	mm	l mm	a1 mm	a2 mm	d mm	g
0320 0080	8	6.0	115	13.0	21.0	14.0	80
0320 0090	9	6.0	120	13.0	26.0	15.0	85
0320 0100	10	7.0	130	13.0	31.0	16.0	105
0320 0110	11	8.0	140	14.0	35.0	17.0	115
0320 0120	12	8.0	140	14.0	35.0	18.0	145
0320 0130	13	9.0	160	14.0	36.0	20.0	170
0320 0140	14	9.0	170	17.0	42.0	21.0	185
0320 0150	15	10.0	175	17.0	46.0	22.0	215
0320 0160	16	10.0	185	20.0	47.0	24.0	240
0320 0170	17	10.5	190	20.0	50.0	26.0	275
0320 0180	18	11.0	200	20.0	50.0	27.0	345
0320 0190	19	12.0	205	20.0	50.0	28.0	385
0320 0200	20	13.0	215	22.0	58.0	30.0	490
0320 0210	21	14.0	230	23.0	60.0	32.0	550
0320 0220	22	14.0	235	25.0	62.0	33.0	550
0320 0230	23	15.0	245	28.0	67.0	34.0	715
0320 0240	24	16.0	255	28.0	67.0	36.0	750
0320 0260	26	16.0	275	32.0	70.0	38.0	885
0320 0270	27	19.0	285	32.0	75.0	39.0	890
0320 0300	30	23.0	330	36.0	75.0	42.0	1220
0320 0320	32	23.0	335	36.0	75.0	45.0	1570

- Tried and tested assortments of pipe head spanners
- All important sizes in one set
- Sets in carton box

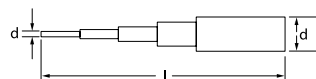
Art. Code	Content	g
0320 9080	0320 8 - 10 - 11 - 13 - 16 - 17 - 18 - 19 mm	1900
0320 9120	0320 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	2600



0342 Tommy Bar

- 5 steps tommy bar for pipe head spanners (Art. Code 320), tubular box spanners (Art. Code 380) etc.
- For boreholes with a diameter of 5, 6, 8, 10 and 12 mm
- Suitable as T-handle

- Material: Chrome Vanadium
- Surface: Matt chrome finish



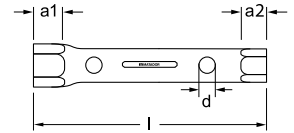
Art. Code	d mm	l mm	g
0342 0250	5 - 6 - 8 - 10 - 12	250	230

0380 Tubular Box Spanners



- For numerous fields of application, ideal for stud bolts, deep-set nuts and spark plugs
- With hollow shaft
- With borehole for tommy bars (Art. Code 342)
- Standards: DIN 896 Form B
ISO 2236 / 1085

- Material: C35 hardened
- Surface: Matt chrome finish

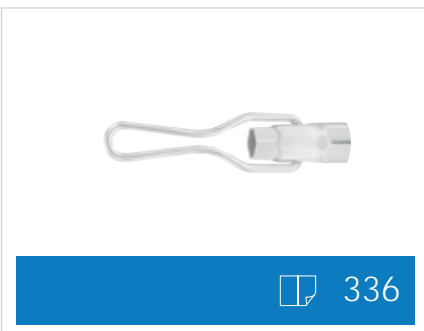


Art. Code	mm	d mm	l mm	a1 mm	a2 mm	g	
0380 0607	6 x 7	5	105	6.0	6.5	80	10
0380 0809	8 x 9	6	105	7.0	7.5	85	10
0380 0810	8 x 10	6	120	7.0	8.0	105	10
0380 1011	10 x 11	6	140	8.0	8.5	115	5
0380 1213	12 x 13	8	140	9.5	10.0	145	5
0380 1315	13 x 15	8	140	10.0	11.5	170	5
0380 1415	14 x 15	8	140	10.5	11.5	185	5
0380 1617	16 x 17	10	150	12.0	12.5	215	5
0380 1719	17 x 19	12	155	12.5	15.5	240	5
0380 1819	18 x 19	12	155	13.5	15.5	275	5
0380 1821	18 x 21	12	155	13.5	16.0	345	2
0380 2022	20 x 22	12	165	16.0	16.5	385	2
0380 2123	21 x 23	14	165	16.0	18.0	490	2
0380 2427	24 x 27	14	180	20.0	22.0	550	2
0380 2528	25 x 28	16	195	20.0	22.0	550	2
0380 3032	30 x 32	16	195	23.0	27.0	715	2
0380 3236	32 x 36	18	215	27.0	28.0	750	2
0380 3641	36 x 41	18	215	28.0	31.0	885	2
0380 4146	41 x 46	20	235	31.0	35.0	890	2
0380 4650	46 x 50	20	235	35.0	37.0	890	1

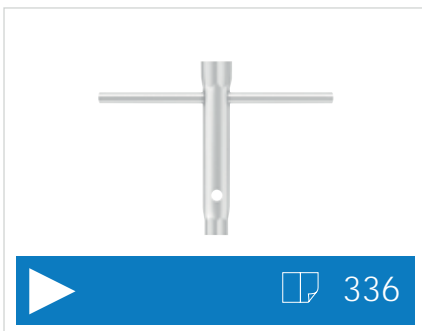


- Tried and tested assortments of tubular box spanners
- All important sizes in one set
- In carton box

Art. Code	g	
0380 9080	850	1
Content	0380 6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 mm	
0380 9120	2100	1
Content	0380 6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 - 21 x 23 - 24 x 27 - 25 x 28 - 30 x 32 mm	



336



336

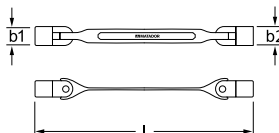


336

0430 Double Ended Swivel Head Wrenches



- With swivel heads for confined spaces
- With double hexagon profile
- Good grip thanks to matt chrome plated surface, also with oily hands
- Material: Chrome Vanadium
- Surface: Matt chrome finish



Art. Code	mm	l mm	b1 mm	b2 mm	g
0430 0809	8 x 9	198	12.3	12.7	91
0430 1011	10 x 11	216	14.8	15.7	118
0430 1213	12 x 13	223	18.7	18.9	172
0430 1415	14 x 15	245	20.8	20.9	214
0430 1617	16 x 17	257	22.7	23.8	282
0430 1819	18 x 19	273	25.7	25.8	359
0430 2022	20 x 22	297	27.7	30.0	486



- Tried and tested assortment of swivel head spanners
- All important sizes in one set
- Set in carton box

Art. Code	g
0430 9070	1235

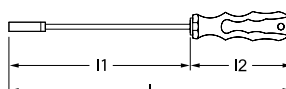
Content: **0430** 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 mm



0670 Hexagon Nut Drivers



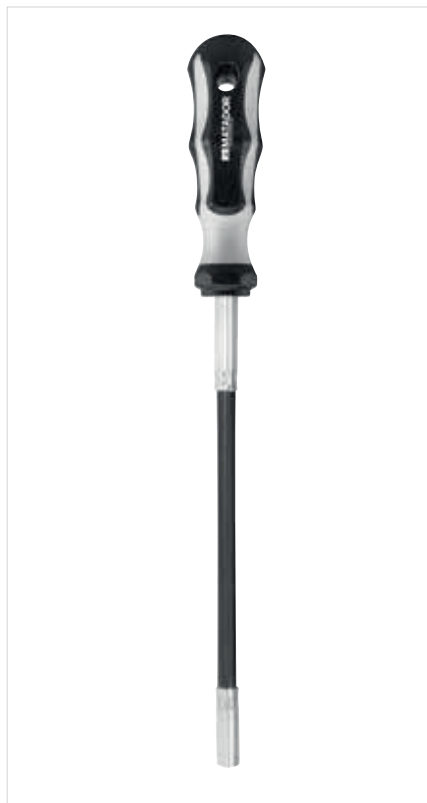
- With 2-component handle with hard zone for quick fastening and soft zone for comfortable fine adjustment
- Especially ergonomic handle
- With hanging hole
- Standards: DIN 3125
- Blade Material: Chrome Vanadium
- Blade Surface: Matt chrome finish



Art. Code	mm	M	l mm	l1 mm	l2 mm	g
0670 2050	5	2.5	345	125	220	67
0670 2060	6	3.5	345	125	220	69
0670 2070	7	4.0	355	125	230	100
0670 2080	8	5.0	370	125	245	102
0670 2100	10	6.0	370	125	245	106

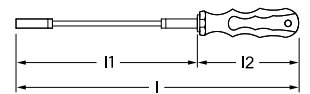
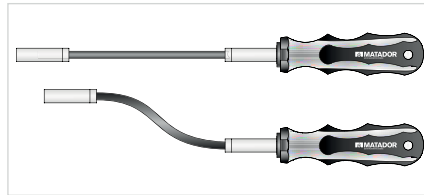


0670 Hexagon Nut Drivers, flexible



- With flexible shaft
- For hose clamps and confined spaces
- With 2-component handle with hard zone for quick fastening and soft zone for comfortable fine adjustment
- Especially ergonomic handle
- With hanging hole

- Standards: DIN 3125
- Blade Material: Chrome Vanadium
- Blade Surface: Matt chrome finish



Art. Code	mm	M	l mm	l1 mm	l2 mm	g	
0670 0050	5	2.5	410	150	260	129	10
0670 0060	6	3.5	410	150	260	131	10
0670 0070	7	4	410	150	260	132	10
0670 0080	8	5	410	150	260	133	10
0670 0100	10	6	410	150	260	140	10

0671 Nut Drivers with T-Handle



- Extra long design
- With ergonomically designed T-handle made of highly impact-resistant special plastic
- With hanging hole
- Chamfered edges

- Blade Material: Chrome Vanadium
- Blade Surface: Nickel-plated



Art. Code	mm	M	l mm	b mm	g	
0671 0055	5.5	3	230	90	123	10
0671 0060	6	3.5	230	90	125	10
0671 0070	7	4	230	90	125	10
0671 0080	8	5	230	90	138	10
0671 0090	9		230	90	140	10
0671 0100	10	6	230	90	172	10
0671 0110	11	7	230	90	170	10
0671 0120	12	(8)	230	90	174	10
0671 0130	13	8	230	90	177	10
0671 0140	14		230	90	185	10

Precisely heated and hot-forged.

MATADOR Wheel Nut Wrenches.

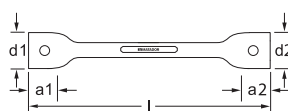


0340 Wheel Nut Wrenches



- With deep head for deep-set wheel nuts
- Hardness and torque values as per DIN 899
- Especially high corrosion resistance thanks to KTL coating (cathaphoretic dip paint)

- Material: Chrome Vanadium
- Surface: KTL coating



Art. Code	mm	AF	mm	l mm	a1 mm	a2 mm	d1 mm	d2 mm	g
0340 2427	24 x 27	15/16 x 1.1/16	18	400	34.5	34.5	37	41	1300
0340 2730	27 x 30	1.1/16 x 1.3/16	18	400	34.5	34.5	41	45	1320
0340 2732	27 x 32	1.1/16 x 1.1/4	18	400	34.5	34.5	41	47	1350
0340 2833	28 x 33		18	400	34.5	34.5	42	48	1450
0340 3032	30 x 32	1.3/16 x 1.1/4	18	400	34.5	34.5	45	47	1500
0340 3233	32 x 33		18	400	34.5	34.5	47	48	1450

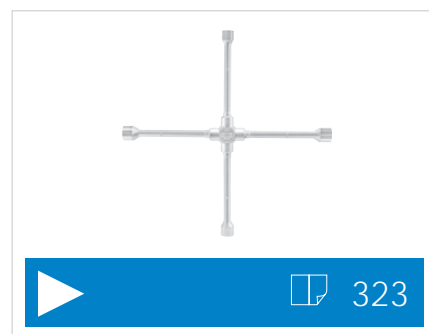
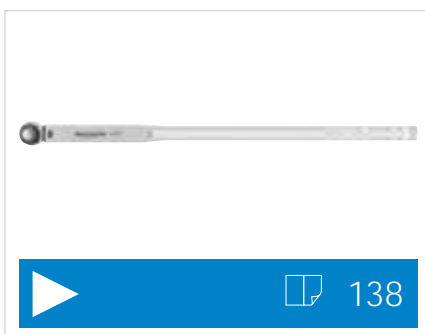


0342 Tommy Bar

- Straight tommy bar

- Surface: KTL coating

Art. Code	mm	l mm	g
0342 0600	18	600	1200



Content

Sockets / accessories.

Page Article group

6.3 mm
1/4

Sockets and accessories 6,3 (1/4)

74	Reversible Ratchet
75	Reversible Ratchet for Bits
76	Multi-Ratchet
77	Sliding T-Handle
77	Extensions
77	Universal Joint
77	Spinner Handle
78	T-Handle Extension
78	Converter
78	Adapter
79	Sockets
79	Sockets „Mini“, Set
80	Sockets, long type
80	Sockets (TORX®)
80	Sockets „Mini“, Set
81	Screwdriver Bit Sockets (Slotted)
81	Screwdriver Bit Sockets (PH)
81	Screwdriver Bit Sockets (PZ)
82	Screwdriver Bit Sockets (Hex)
82	Screwdriver Bit Sockets „Mini“, Set
82	Screwdriver Bit Sockets (TORX®)
83	Screwdriver Bit Sockets „Mini“, Set
83	Screwdriver Bit Sockets (TORX® with pilot)
83	Socket Rail
84	Socket Sets ECO 6.3 (1/4)
84	Socket Sets Classic 6.3 (1/4)
85	Socket Sets 6.3 (1/4)
85	Socket Sets (TORX®) 6.3 (1/4)
86	Socket Sets Pro 6.3 (1/4)
87	Smarty Box 6.3 (1/4)

10 mm
3/8

Sockets and accessories 10 (3/8)

88	Reversible Ratchet
88	Sliding T-Handle
89	Extensions
89	Extensions (Wobble Type)
89	Universal Joint
89	T-Handle Extension
90	Reducer
90	Converter
90	Bit Adapter
90	Socket Rail
91	Sockets (MM)
91	Sockets (AF)
92	Sockets, long type
92	Sockets (TORX®)
92	Set Crowfoot Sockets

Page Article group

12.5 mm
1/2

Sockets and accessories 12,5 (1/2)

92	Screwdriver Bit Sockets (Slotted)
93	Screwdriver Bit Sockets (PH)
93	Screwdriver Bit Sockets (Hex)
93	Screwdriver Bit Sockets (XZN)
94	Screwdriver Bit Sockets (TORX®)
94	Screwdriver Bit Sockets Set (TORX®)
95	Socket Sets 10 (3/8)
95	Socket Sets (TORX®) 10 (3/8)
97	Reversible Ratchet
98	Reversible Ratchet (72 T)
98	Push-Through Ratchet
98	Swivelling Ratchet
99	Reversible Ratchet (3in1)
100	Sliding T-Handle
100	Extensions
100	Extensions (Wobble Type)
101	Universal Joint
101	Speed Brace
101	Swivel Handle
101	T-Handle Extension
102	Reducer
102	Converter
102	Bit Adapters
102	Socket Rail
103	Sockets (MM)
104	Sockets (AF)
104	Sockets, long type
105	Sockets (TORX®)
105	Screwdriver Bit Sockets (Slotted)
105	Screwdriver Bit Sockets (PH)
106	Screwdriver Bit Sockets (Hex)
106	Screwdriver Bit Sockets Set (Hex)
107	Screwdriver Bit Sockets (XZN)
107	Screwdriver Bit Sockets Set (XZN)
108	Screwdriver Bit Sockets (RIBE®)
108	Screwdriver Bit Sockets (TORX®)
109	Screwdriver Bit Sockets Set (TORX®)
109	Screwdriver Bit Sockets (TORX® with pilot)
109	Screwdriver Bit Sockets Set (TORX® with pilot)
110	Socket Sets 12.5 (1/2)
111	Socket Sets PRO 6.3 (1/4) / 12.5 (1/2)
112	Socket Sets 12.5 (1/2) (TORX®)
113	Socket Sets 12.5 (1/2), long type
113	Screwdriver Sockets Set (TORX®)

20 mm
3/4

Page Article group

115	Sockets Set Allround
115	Sockets Set Automotive
116	Reversible Ratchet (72 T)
116	Push-Through Ratchet
117	Sliding T-Handle
117	Extensions
117	Universal Joint
117	Reducer
118	Converter
118	Sockets
119	Socket Sets 20 (3/4)

25 mm
1

Sockets and accessories 25 (1)

120	Reversible Ratchet
120	Sliding T-Handle
120	Extensions
120	Reducer
121	Sockets (MM)
121	Socket Set 25 (1)
121	Construction ratchet



Sockets and accessories.

Be a MATADOR.

In the beginning there was only an idea.

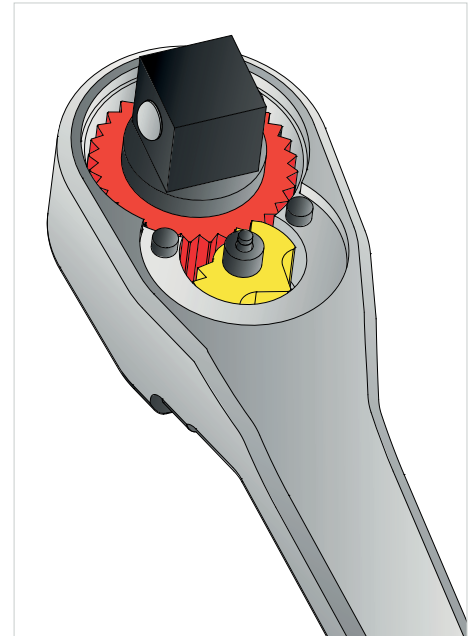
MATADOR drive technology. Benefit from experience.



MATADOR's first reversible ratchet made in 1924, patented in Germany.



2013 model of the MATADOR reversible ratchet.

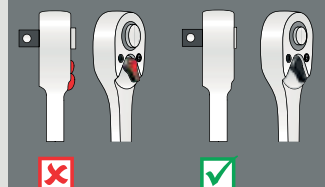


Why recessed switch lever?

MATADOR reversible ratchets are basically equipped **with recessed switch levers**.

In comprehensive application studies we found that **the most common cause of defect** is a **tom-off switch lever**. In daily use in workshops reversible ratchets are often simply thrown into the tool box or even misused as hammers.

Yet a light tap on a protruding lever can cause it to tear off and render it impossible to continue work.



That is why MATADOR countersinks the switch levers into the ratchet body creating an even and invulnerable surface.

A small detail with high effect.

Since 1900 we think about drive technology.

As one of the first manufacturers in Europe already in **1924** MATADOR presented its **first reversible ratchet** which was **patented in Germany**.

In the course of the following years a comprehensive range of operating tools had been developed.

Nowadays, CNC-controlled processes allow the production of **top quality ratchets**. However, their core function has not changed significantly. Back then as well as today ratchets help tightening or loosening screwed connections quickly by hand.

Often, less is more.

It is not our objective to offer the most extensive range of ratchets in the market and to sell "old wine in new bottles".

Instead we concentrate on our core competences and have only those ratchets in our range that are really needed in practice and that meet our strict requirements in terms of quality.

No toys but **solid technology for professional users** at an appropriate price/performance ratio.

To help you concentrate on your work.

The intrinsic values are what counts.

Besides a proper use the lifetime of a ratchet is substantially determined by the quality of the components.

For instance, the MATADOR reversible ratchet with 12.5 mm (½") drive is made of **12 individual components** that are precisely matched to each other. Especially the **toothed ratchet wheel**, the **pawl** made of heavy duty steel for fixing the wheel as well as the **lever** for switching from clockwise to anti-clockwise operation are parts that are **exposed to heavy load**. The ideal composition of the used material as well as a perfect machining are of great importance.

Get back to basics.

All ratchets at a glance.

From 6.3 (1/4") up to 25 (1") drive. Extremely short for confined spaces or extremely long for high torque transmission. Or extendible. Or swivelling. Normal-toothed or fine-toothed with 72 teeth for only 5° swivel angle. With lever or push-through-technology.

You don't find what you need? Please contact us.



			6.3 mm 1/4	10 mm 3/8	12.5 mm 1/2	20 mm 3/4	25 mm 1
		Reversible Ratchet, fine-toothed	2061 0001	--	--	--	--
		Reversible Ratchet for bits, fine-toothed	2062 0001	--	--	--	--
		Multi Ratchet with T-handle, screwdriver and ratchet, fine-toothed	2063 0001	--	--	--	--
		Reversible Ratchet, normal-toothed	--	3061 0001	--	--	--
		Reversible Ratchet, normal-toothed	--	--	4061 0001	--	--
		Reversible Ratchet, fine-toothed	--	--	4061 0003	--	--
		Reversible Ratchet, normal-toothed, extendable in 3 steps	--	--	4061 0020	--	--
		Push-Through Ratchet, normal-toothed	--	--	4062 0001	--	--
		Swivelling Ratchet, fine-toothed	--	--	4063 0001	--	--
		Reversible Ratchet, fine-toothed	--	--	--	5060 0001	--
		Push-Through Ratchet, normal-toothed	--	--	--	5062 0001	--
		Reversible Ratchet, fine-toothed	--	--	--	--	6060 0001

How much torque do you need? Minimum torque requirements according to DIN 3122 for reversible ratchets:

		6.3 mm 1/4	10 mm 3/8	12.5 mm 1/2	20 mm 3/4	25 mm 1
	up to a max. swivel angle of 20°	62 N·m	202 N·m	--	--	--
	up to a max. swivel angle of 15°	--	--	512 N·m	1 412 N·m	2 515 N·m

Our range of sockets and screwdriver bit sockets for professional use.

MATADOR Sockets with Super-Chrom and SmartDrive².



Super-Chrom coating outside and inside - for permanence and durability.

From 6.3 (1/4") to 20 (3/4") with SmartDrive².



Higher torque values thanks to SmartDrive.

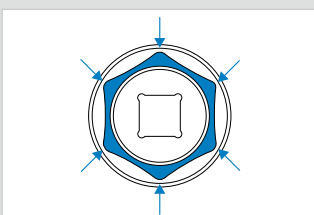
As one of the first tool manufacturers MATADOR introduced a special **flank drive profile** ("SmartDrive") more than **10 years ago**.

Sockets with **MATADOR SmartDrive** profile **distribute the power to the screw head flanks**, not to the edges. As a result MATADOR sockets work on about **double the contact surface** as conventional sockets.

The advantages:

- Optimized traction, even on worn screws
- Higher torque values
- Ideal protection of the screws

All MATADOR sockets with square drives from 6.3 (1/4") up to 20 (3/4") are supplied with **SmartDrive**.



- SmartDrive

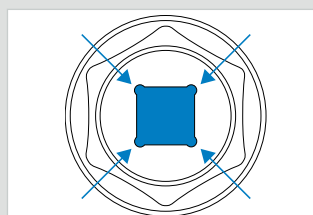
And what's more: SmartDrive².

The perfect add-on to SmartDrive is **SmartDrive²**.

Also on the drive end of a socket enormous power is applied and the optimal traction between the outer square of the operating tool and the inner square of the socket is highly important.

That's why the **inner squares** of the MATADOR sockets are also **provided with a SmartDrive profile**: The edges of the outer square will be protected thanks to the notches. Slightly convex flanks transfer the power to the plane surface.

MATADOR **SmartDrive²** - you should not be content with less.



- SmartDrive²

MATADOR SuperChrom.

Generally quality hand tools undergo a fully galvanic treatment, i.e. they are **first nickel-plated** and **then chrome-plated**.

Through the (yellowly shimmering) nickel coating the tools get **rust protection** and through chrome which is applied afterwards they receive their silvery shiny appearance.

MATADOR **SuperChrom** goes one step further: Through especially intense grinding the tools get a very smooth surface. Afterwards they will be finished optimally with a very resistant and thick nickel-chrome-plating - of course chrome VI free and environmentally friendly.



- Hot forging

Inner values combined with a valuable appearance.

In the result **SuperChrom** does not only look much more valuable but it also **significantly improves the resistance** to external impacts.

Chrome spalling due to heavy duty application, scratches on the surface etc. and thus potential patches of rust are things of the past.

Please test yourself and compare MATADOR SuperChrom tools with conventionally chrome-plated tools - you will be impressed.



- Socket production

From fine mechanics to heavy industry.

All sockets at a glance.

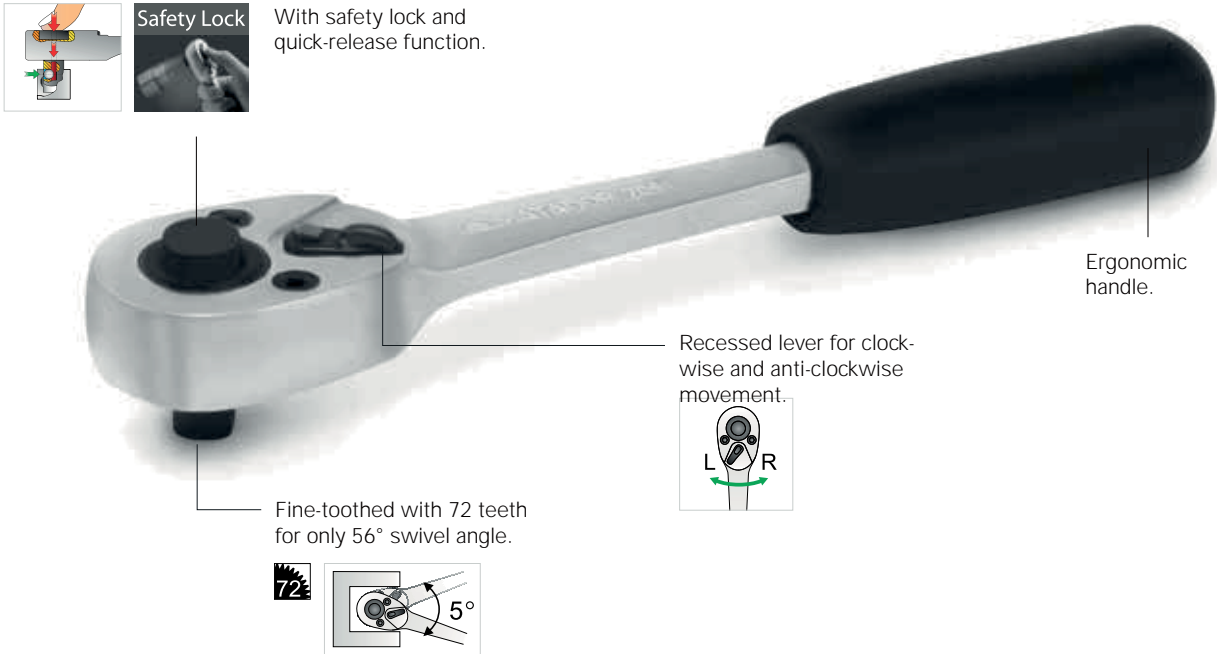
From 6.3 (1/4") up to 25 (1") drive. Six point. Double six point. Millimeter. Inch. Short type. Long type. With bits for slotted screws. For cross-slotted screws. For hexagon socket screws. For XZN. For RIBE®. For TORX®. With drive for bits from 6.3 (1/4") to 11 (7/16").

You don't find what you need? Please contact us.

		6.3 mm 1/4"		10 mm 3/8"		12.5 mm 1/2"		20 mm 3/4"		25 mm 1"	
		Sockets, six point	2075 4 – 14 (1/8 – 9/16)	3075 6 – 22 (1/4 – 5/16)	4075 8 – 36 (3/8 – 1.1/4)	5075 19 – 60 (7/8 – 2.1/4)	-	-	-	-	-
		Sockets, double six point	-	3075 6 – 22 (11/32 – 7/8)	4075 10 – 36 (3/8 – 1.1/4)	5075 19 – 60	6075 36 – 80	-	-	-	-
		Sockets, long type, six point	2081 4 – 14	3081 8 – 22	4081 10 – 32	-	-	-	-	-	-
		Sockets, long type, double six point	-	-	4081 10 – 32	-	-	-	-	-	-
		Sockets, outside TORX®	2090 E4 – E11	3090 E8 – E14	4090 E10 – E24	-	-	-	-	-	-
		Screwdriver Bit Sockets, for slotted screws	2076 4 – 7	3076 7 – 9	4076 8 – 12	-	-	-	-	-	-
		Screwdriver Bit Sockets, for cross-slotted screws PH	2077 PH 1 – 3	3077 PH 1 – 3	4077 PH 2 – 4	-	-	-	-	-	-
		Screwdriver Bit Sockets, for cross-slotted screws PZ	2077 PZ 1 – 3	-	-	-	-	-	-	-	-
		Screwdriver Bit Sockets, for hexagon socket screws	2078 3 – 10	3078 4 – 10	4078 4 – 19 (3/8 – 9/16)	-	-	-	-	-	-
		Screwdriver Bit Sockets, for multi-point screws XZN	-	3079 M5 – M10	4079 M5 – M16	-	-	-	-	-	-
		Screwdriver Bit Sockets, for multi-spline screws RIBE®	-	-	4080 M5 – M16	-	-	-	-	-	-
		Screwdriver Bit Sockets, for recessed TORX® screws	2092 T6 – T40	3092 T15 – T50	4092 T20 – T80	-	-	-	-	-	-
		Screwdriver Bit Sockets, for recessed TORX® screws with pin	2093 TR8 – TR40	-	4093 TR20 – TR80	-	-	-	-	-	-
	6.3 mm	1/4"	-	3082 0001	-	-	-	-	-	-	-
	10 mm	3/8"	2083 0001	-	4082 0001	-	-	-	-	-	-
	12.5 mm	1/2"	-	3083 0001	-	5082 0001	-	-	-	-	-
	20 mm	3/4"	-	-	4083 0001	-	6082 0001	-	-	-	-
	25 mm	1"	-	-	-	5083 0001	-	-	-	-	-
	6.3 mm	1/4"	2084 0001 2084 0002	3084 0001	4084 0001	-	-	-	-	-	-
	8 mm	5/16"	-	-	4084 0002	-	-	-	-	-	-
	11 mm	7/16"	-	-	4084 0003	-	-	-	-	-	-

Small, handy and compact.

The MATADOR reversible ratchet in 6.3 (1/4").

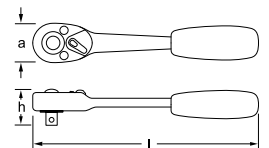


2061 Reversible Ratchet

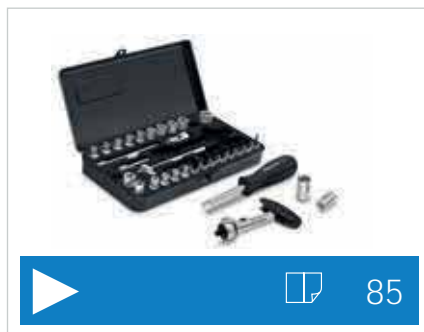


- Small ratchet head for confined spaces
- With safety lock and quick-release function
- With lever
- Fine-toothed with 72 teeth
- For hand-operated sockets and adapters
- With square drive as per DIN 3120 - C 6.3 / ISO 1174

- Standards: DIN 3122 / ISO 3315
- Material: Chrome Vanadium
- Surface: Matt chrome finish



Art. Code	mm	"	l mm	a mm	h mm	g	
2061 0001	6.3	1/4	140	25	23	110	10
2061 0010	Repair Kit					30	1



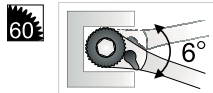
The solution for congested spaces.

Probably the smallest ratchet in the world. The MATADOR bit ratchet.

Fast switch for clockwise and anti-clockwise movement.



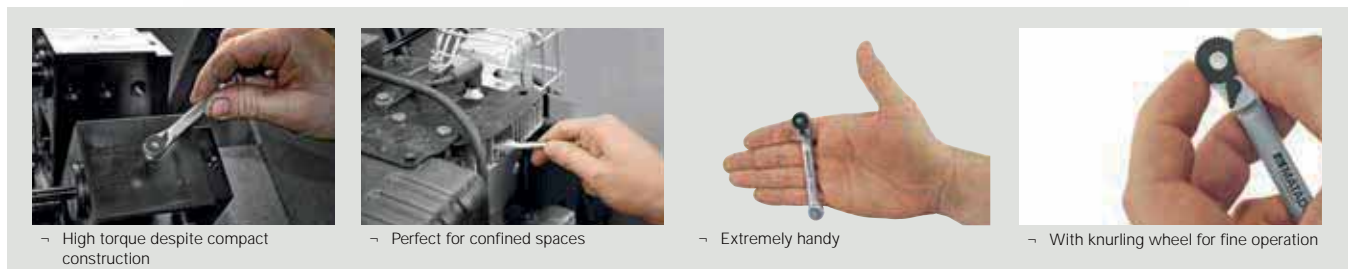
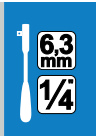
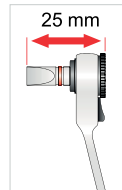
Fine-toothed with 60 teeth for only 6° swivel angle.



Shaft made from high-grade Chrome Vanadium steel with 10 mm jaw.



Only 25 mm (!) depth with bit.



→ High torque despite compact construction

→ Perfect for confined spaces

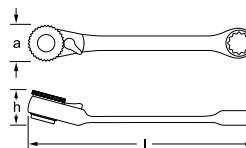
→ Extremely handy

→ With knurling wheel for fine operation

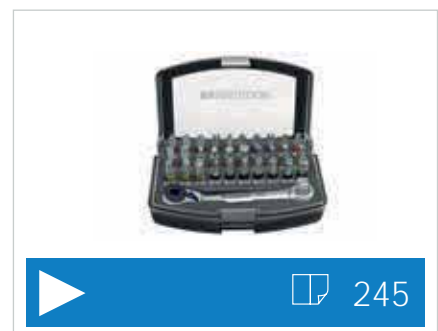
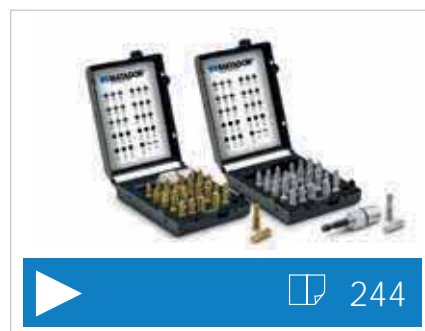
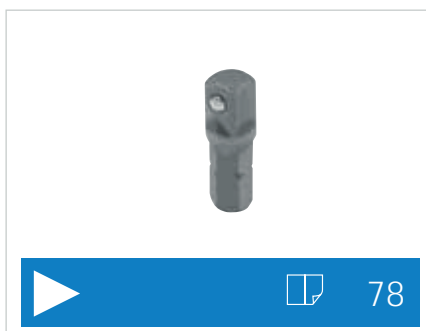
2062 Reversible Ratchet for Bits

- Extremely small and handy
- Perfect for fine mechanics
- With lever
- Fine-toothed with 60 teeth
- With hexagon holder for bits acc. to DIN 3126 - C 6.3 (1/4")

- Material: Chrome Vanadium
- Surface: Matt chrome finish



Art. Code	mm	"	l mm	a mm	h mm	g	mm³
2062 0001	6.3	1/4	92	15	11	28	10

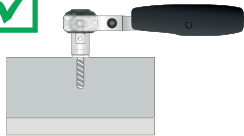


The super talent. 3in1.

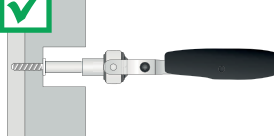
MATADOR Multi-Ratchet. Ratchet. Screwdriver. T-Handle. One for all.



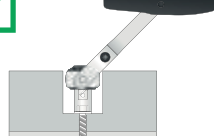
Fine-toothed with 72 teeth for only 5° swivel angle.



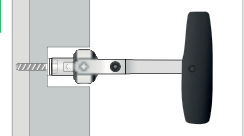
→ Fine-toothed reversible ratchet



→ Screwdriver with ratchet function



→ Perfect for special applications



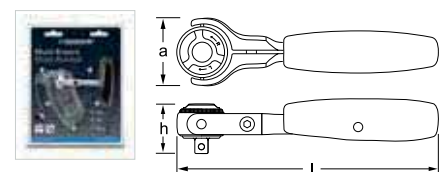
→ T-Handle for high torque transmission

2063 Multi-Ratchet



- Multifunctional ratchet (works as standard ratchet, screwdriver and T-Handle)
- With safety lock and quick-release function
- Fine-toothed with 72 teeth
- Adjustable shaft for constant tight fit of the swivel head
- With robust metal handle
- Adjustable to 5 positions: standard 0°, 30°, 50°, 70°, 90°
- For hand-operated sockets and adapters
- With square drive as per DIN 3120 - C 6.3 / ISO 1174

- Material: Chrome Vanadium
- Surface: Matt chrome finish



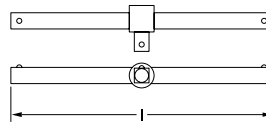
Art. Code	mm	"	l mm	a mm	h mm	g	
2063 0001	6.3	1/4	125	32	28	240	10

2064 Sliding T-Handle

1/4 6.3

- Can be used as T-Handle, with sliding square drive
- With ball locking device
- For hand-operated sockets and adapters
- With square drive as per DIN 3120 - A 6.3 / ISO 1174

- Standards: DIN 3122 / ISO 3315
- Material: Chrome Vanadium
- Surface: Super-Chrom



Art. Code	mm	"	l mm	g	
2064 0001	6.3	1/4	115	42	10

2065 Extensions

1/4 6.3 1/4 6.3

- With ball locking device
- For hand-operated sockets and adapters
- With square drive as per DIN 3120 - A 6.3 and C 6.3 / ISO 1174

- Standards: DIN 3123 / ISO 3315
- Material: Chrome Vanadium
- Surface: Super-Chrom



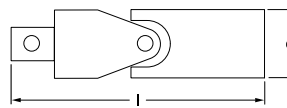
Art. Code	mm	"	mm	"	d mm	l mm	l"	g	
2065 0001	6.3	1/4	6.3	1/4	12	50	2	20	10
2065 0002	6.3	1/4	6.3	1/4	12	100	4	40	10

2068 Universal Joint

1/4 6.3 1/4 6.3

- With ball locking device
- For hand-operated sockets and adapters
- With square drive as per DIN 3120 - A 6.3 and C 6.3 / ISO 1174

- Standards: DIN 3123 / ISO 3316
- Material: Chrome Vanadium
- Surface: Super-Chrom



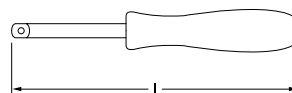
Art. Code	mm	"	mm	"	d mm	l mm	g	
2068 0001	6.3	1/4	6.3	1/4	14	38	27	10

2073 Spinner Handle

1/4 6.3

- With ball locking device
- For hand-operated sockets and adapters
- With square drive as per DIN 3120 - A 6.3 / ISO 1174

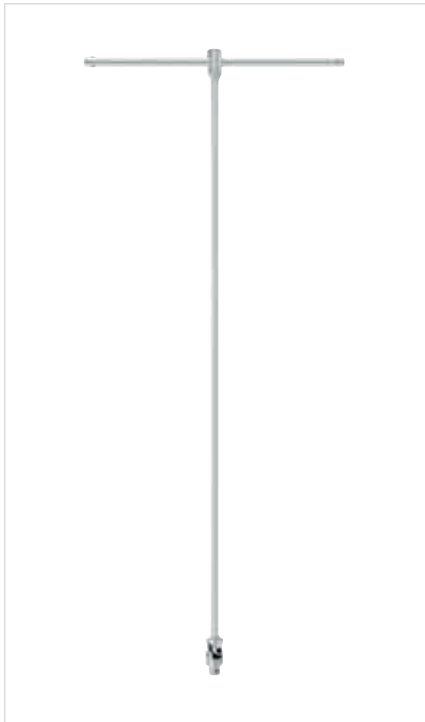
- Standards: DIN 3122 / ISO 3315
- Material: Chrome Vanadium
- Surface: Matt chrome finish



Art. Code	mm	"	mm	"	l mm	g	
2073 0001	6.3	1/4	6.3	1/4	150	90	10

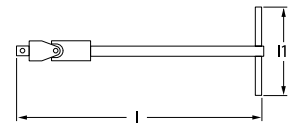
2074 T-Handle Extension

1/4 **6.3 mm** **1/4** **6.3 mm**



- Very functional, for hard-to-reach areas
- Can be used as T-Handle or L-Handle
- Can also be used as extension together with a ratchet thanks to inner square C 6.3 on the T-Handle side
- With universal joint for flexible use
- With ball locking device
- For hand-operated sockets and adapters
- Square drive acc. to DIN 3120 - A 6.3 / ISO 1174

- Standards: DIN 3123 / ISO 3316
- Material: Chrome Vanadium
- Surface: Super-Chrom



Art. Code	mm	"	mm	"	l mm	"	l1 mm	l1 "	g	
2074 0001	6.3	1/4	6.3	1/4	500	20	200	8	300	10

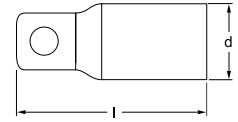
2083 Converter

3/8 **10 mm** **1/4** **6.3 mm**



- With ball locking device
- For hand-operated sockets and adapters
- Square drive acc. to DIN 3120 - A 10 and C 6.3 / ISO 1174

- Standards: DIN 3123 / ISO 3316
- Material: Chrome Vanadium
- Surface: Super-Chrom



Art. Code	mm	"	mm	"	d mm	l mm	g	
2083 0001	10.0	3/8	6.3	1/4	14	25.5	20	10

2084 Adapter

1/4 **6.3 mm** **1/4** **6.3 mm** **1/4** **6.3 mm** **1/4** **6.3 mm**

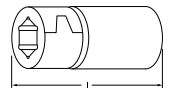


2084 0001

2084 0002

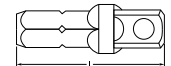
- For inserting bits with hex shank
- With spring clip
- With hexagon socket acc. to DIN 3126 - D 6.3 and inner square C 6.3 acc. to DIN 3120

- Standards: DIN 3126 / 3120
- Material: Chrome Vanadium
- Surface: Super-Chrom



Art. Code	mm	"	mm	"	l mm	g	
2084 0001	6.3	1/4	6.3	1/4	25	15	10

- Connector

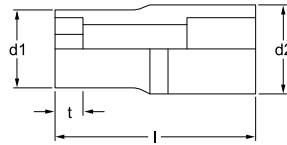


Art. Code	mm	"	mm	"	l mm	g	
2084 0002	6.3	1/4	6.3	1/4	28	15	10

2075 Sockets

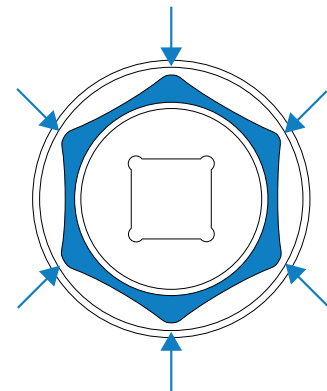
- For hexagon head screws
- For hand operation
- Square drive acc. to DIN 3120 - C 6.3 / ISO 1174
- With six point profile
- With MATADOR SmartDrive²

- Standards: DIN 3124 / ISO 2725-1
- Material: Chrome Vanadium
- Surface: Super-Chrom



Art. Code	mm	t mm	l mm	d1 mm	d2 mm	g	
2075 0040	4	5	25	6.8	11.9	10	10
2075 0045	4.5	5	25	7.1	11.9	10	10
2075 0050	5	5	25	8.0	11.9	10	10
2075 0055	5.5	5	25	8.3	11.9	11	10
2075 0060	6	5	25	9.3	11.9	11	10
2075 0070	7	5	25	10.5	11.9	12	10
2075 0080	8	5	25	11.9	11.9	12	10
2075 0090	9	8	25	13.0	13.0	19	10
2075 0100	10	8	25	14.0	14.0	17	10
2075 0110	11	8	25	15.9	15.9	24	10
2075 0120	12	8	25	16.9	16.9	27	10
2075 0130	13	10	25	17.8	17.8	31	10
2075 0140	14	10	25	19.6	19.6	38	10

Art. Code	*AF	t mm	l mm	d1 mm	d2 mm	g	
2075 8001	1/8	5	25	6.8	11.9	10	10
2075 8002	5/32	5	25	6.8	11.9	10	10
2075 8003	3/16	5	25	8.0	11.9	10	10
2075 8004	7/32	5	25	8.8	11.9	11	10
2075 8005	1/4	5	25	9.3	11.9	11	10
2075 8006	9/32	5	25	10.5	11.9	12	10
2075 8007	5/16	5	25	11.9	11.9	12	10
2075 8008	11/32	5	25	13.0	13.0	19	10
2075 8009	13/32	5	25	13.0	13.0	19	10
2075 8010	3/8	8	25	14.0	14.0	17	10
2075 8011	7/16	8	25	16.0	16.0	24	10
2075 8012	1/2	10	25	17.8	17.8	31	10
2075 8013	9/16	10	25	19.5	19.5	31	10



2075 Sockets „Mini“, Set

- For hexagon head screws
- The 4 most important sizes in one set
- In practical box with hanger
- For hand operation
- Square drive acc. to DIN 3120 - C 6.3 / ISO 1174

- With six point profile
- With MATADOR SmartDrive²

- Standards: DIN 3124 / ISO 2725-1
- Material: Chrome Vanadium
- Surface: Super-Chrom



Art. Code	MM	a mm	b mm	g	
2075 9040	MM	75	95	80	1

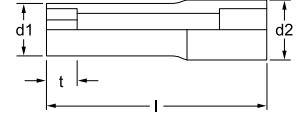
2075 7 - 8 - 10 - 13 mm

2081 Sockets, long type



- For hexagon head screws
- Ideal for deep screw connections
- For hand operation
- Square drive acc. to DIN 3120 - C 6.3 / ISO 1174
- With six point profile
- With MATADOR SmartDrive²

- Standards: DIN 3124 / ISO 2725-1
- Material: Chrome Vanadium
- Surface: Super-Chrom



Art. Code	mm	t mm	l mm	d1 mm	d2 mm	g	
2081 0040	4	5	50	6.8	11.9	22	10
2081 0045	4.5	5	50	7.1	11.9	23	10
2081 0050	5	5	50	8.0	11.9	21	10
2081 0055	5.5	5	50	8.3	11.9	21	10
2081 0060	6	8	50	9.3	11.9	22	10
2081 0070	7	8	50	10.5	11.9	23	10
2081 0080	8	8	50	11.9	11.9	25	10
2081 0090	9	11	50	13.0	13.0	30	10
2081 0100	10	11	50	14.6	14.6	40	10
2081 0110	11	11	50	15.9	15.9	45	10
2081 0120	12	13	50	16.9	16.9	53	10
2081 0130	13	13	50	17.8	17.8	70	10
2081 0140	14	16	50	19.6	19.6	75	10

2090 Sockets (TORX®)



- For outside TORX® screws
- For hand operation
- Square drive acc. to DIN 3120 - C 6.3 / ISO 1174

- Material: Chrome Vanadium
- Surface: Super-Chrom

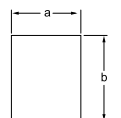
Art. Code		t mm	l mm	d1 mm	d2 mm	g	
2090 0040	E4	5	25	7	11.9	12	10
2090 0050	E5	5	25	8	11.9	12	10
2090 0060	E6	5	25	9	11.9	13	10
2090 0070	E7	5	25	9.5	11.9	14	10
2090 0080	E8	8	25	10.5	11.9	13	10
2090 0100	E10	8	25	13.1	14.5	21	10
2090 0110	E11	8	25	13.5	14.5	22	10

2090 Sockets „Mini“, Set



- For outside TORX® screws
- The 3 most important sizes in one set
- In practical box with hanger
- For hand operation
- Square drive acc. to DIN 3120 - C 6.3 / ISO 1174

- Material: Chrome Vanadium
- Surface: Super-Chrom



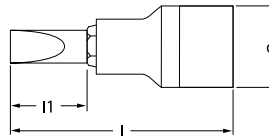
Art. Code		a mm	b mm	g	
2090 9030		75	95	65	1

2090 E8 - E10 - E11

2076 Screwdriver Bit Sockets (Slotted)



- For slotted screws
- Extra hard tips made of special steel
- For hand operation
- Square drive acc. to DIN 3120 - C 6.3 / ISO 1174
- Standard: DIN ISO 2380-1 Form B
- Material: Chrome Vanadium / tip made of special steel
- Surface: Super-Chrom / tip manganese phosphated



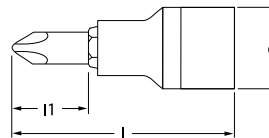
Art. Code	mm	mm	l mm	l1 mm	d mm	g	
2076 0040	0.6	4.0	33	14	11.9	12	10
2076 0055	0.8	5.5	33	14	11.9	12	10
2076 0070	1.0	7.0	33	14	11.9	13	10



2077 Screwdriver Bit Sockets (PH)



- For cross-slotted screws PH
- Extra hard tips made of special steel
- For hand operation
- Square drive acc. to DIN 3120 - C 6.3 / ISO 1174
- Standard: DIN ISO 8764-1 PH
- Material: Chrome Vanadium / tip made of special steel
- Surface: Super-Chrom / tip manganese phosphated



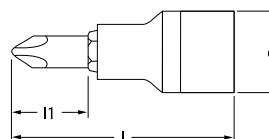
Art. Code	PH	l mm	l1 mm	d mm	g	
2077 0001	1	33	14	11.9	14	10
2077 0002	2	33	14	11.9	14	10
2077 0003	3	33	14	11.9	15	10



2077 Screwdriver Bit Sockets (PZ)



- For cross-slotted screws PZ
- Extra hard tips made of special steel
- For hand operation
- Square drive acc. to DIN 3120 - C 6.3 / ISO 1174
- Standard: DIN ISO 8764-1 PZ
- Material: Chrome Vanadium / tip made of special steel
- Surface: Super-Chrom / tip manganese phosphated



Art. Code	PZ	l mm	l1 mm	d mm	g	
2077 0011	1	33	14	11.9	14	10
2077 0012	2	33	14	11.9	14	10
2077 0013	3	33	14	11.9	15	10

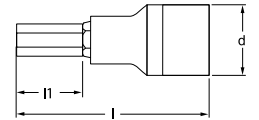


2078 Screwdriver Bit Sockets (Hex)



- For hexagon socket screws
- Extra hard tips made of special steel
- For hand operation
- Square drive acc. to DIN 3120 - C 6.3 / ISO 1174

- Standard: DIN 7422
- Material: Chrome Vanadium / tip made of special steel
- Surface: Super-Chrom / tip manganese phosphated



Art. Code	mm	l mm	l1 mm	d mm	g	
2078 0030	3	33	14	11.9	12	10
2078 0040	4	33	14	11.9	12	10
2078 0050	5	33	14	11.9	13	10
2078 0060	6	33	14	11.9	14	10
2078 0070	7	33	14	11.9	13	10
2078 0080	8	33	14	11.9	21	10
2078 0100	10	33	14	11.9	22	10

2078 Screwdriver Bit Sockets „Mini“, Set



- For hexagon socket screws
- The 3 most important sizes in one set
- In practical box with hanger
- For hand operation
- Square drive acc. to DIN 3120 - C 6.3 / ISO 1174

- Standard: DIN 7422
- Material: Chrome Vanadium / tip made of special steel
- Surface: Super-Chrom / tip manganese phosphated

Art. Code	a mm	b mm	g	
2078 9030	75	95	65	1

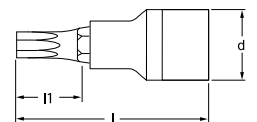
2078 4 - 5 - 6 x 32 mm

2092 Screwdriver Bit Sockets (TORX®)



- For recessed TORX® head screws
- Extra hard tips made of special steel
- For hand operation
- Square drive acc. to DIN 3120 - C 6.3 / ISO 1174

- Material: Chrome Vanadium / tip made of special steel
- Surface: Super-Chrom / tip manganese phosphated



Art. Code		l mm	l1 mm	d mm	g	
2092 0060	T6	33	14	11.9	14	10
2092 0070	T7	33	14	11.9	14	10
2092 0080	T8	33	14	11.9	14	10
2092 0090	T9	33	14	11.9	14	10
2092 0100	T10	33	14	11.9	14	10
2092 0150	T15	33	14	11.9	14	10
2092 0200	T20	33	14	11.9	14	10
2092 0250	T25	33	14	11.9	14	10
2092 0270	T27	33	14	11.9	14	10
2092 0300	T30	33	14	11.9	14	10
2092 0400	T40	33	14	11.9	15	10

2092 Screwdriver Bit Sockets „Mini“, Set



- For recessed TORX® head screws
- The 4 most important sizes in one set
- In practical box with hanger
- For hand operation
- Square drive acc. to DIN 3120 - C 6.3 / ISO 1174
- Material: Chrome Vanadium / tip made of special steel
- Surface: Super-Chrom / tip manganese phosphated



Art. Code		↔	↑↓	⚖	📦
Art. Code		a mm	b mm	g	
2092 9040		75	95	65	1

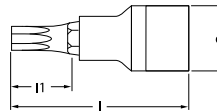
2092 T20 - T25 - T30 - T40 x 32 mm



2093 Screwdriver Bit Sockets (TORX® with pilot)



- For recessed TORX® screws with pilot
- Extra hard tips made of special steel
- For hand operation
- Square drive acc. to DIN 3120 - C 10 / ISO 1174
- Material: Chrome Vanadium / tip made of special steel
- Surface: Super-Chrom / tip manganese phosphated

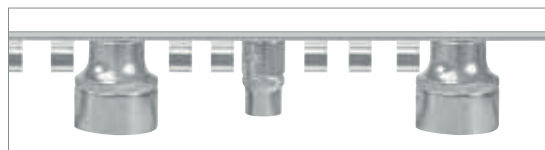


Art. Code		↔	↔	↑↓	⚖	📦
Art. Code		l mm	l1 mm	d mm	g	
2093 0080	TR8	33	14	11.9	14	10
2093 0100	TR10	33	14	11.9	14	10
2093 0150	TR15	33	14	11.9	14	10
2093 0200	TR20	33	14	11.9	14	10
2093 0250	TR25	33	14	11.9	14	10
2093 0270	TR27	33	14	11.9	14	10
2093 0300	TR30	33	14	11.9	14	10
2093 0400	TR40	33	14	11.9	15	10

2099 Socket Rail



- For wall mounting
- For 14 sockets
- For square drive acc. to DIN 3120 - C 6.3 / ISO 1174
- Supplied without tools

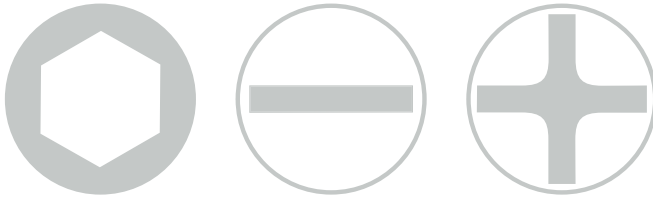


Art. Code		↔	⚖	📦
Art. Code		l mm	g	
2099 0001		410	67	1



In solid metal case.

MATADOR Socket Sets in 6.3 mm (1/4").

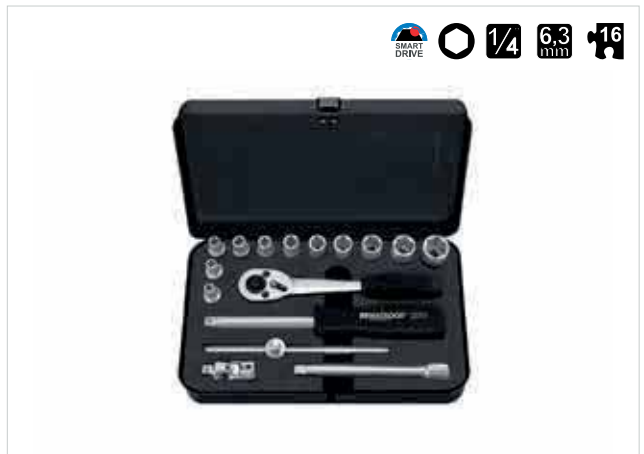


2110 Socket Sets ECO 6.3 (1/4)



Art. Code				a mm	b mm	g		
2110 9180		MM		2061	170	105	700	1
2110 9181		AF		2061	170	105	700	1
2110 9182		MM		2063	170	105	800	1
2110 9183		AF		2063	170	105	800	1
2065 100 mm 2068 2075 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 13 mm AF: 1/8 - 5/32 - 3/16 - 7/32 - 1/4 - 9/32 - 5/16 - 11/32 - 3/8 - 7/16 - 1/2" 2076 4 - 7 x 32 mm 2077 PH 1 - PH 2 x 32 mm								

2115 Socket Sets Classic 6.3 (1/4)



Art. Code				a mm	b mm	g		
2115 9160		MM		2061	170	105	700	1
2115 9161		AF		2061	170	105	700	1
2115 9162		MM		2063	170	105	800	1
2115 9163		AF		2063	170	105	800	1
2064 115 mm 2065 100 mm 2068 2073 150 mm 2075 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 13 mm AF: 1/8 - 5/32 - 3/16 - 7/32 - 1/4 - 9/32 - 5/16 - 11/32 - 3/8 - 7/16 - 1/2"								



MFS MATADOR
FOAM SYSTEM.

With black foam inlay,
resistant against oil and
lubricants.



METAL

In solid metal case,
durable quality,
black powder
coated.

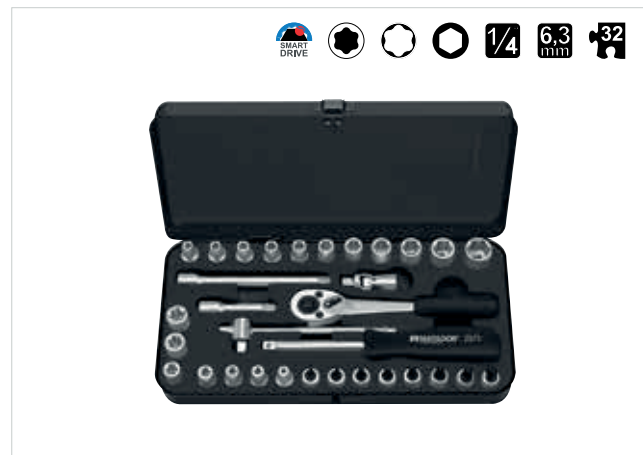
With reversible ratchet (2061)
or Multi-Ratchet (2063).



2135 Socket Sets 6.3 (1/4)



2136 Socket Sets (TORX®) 6.3 (1/4)

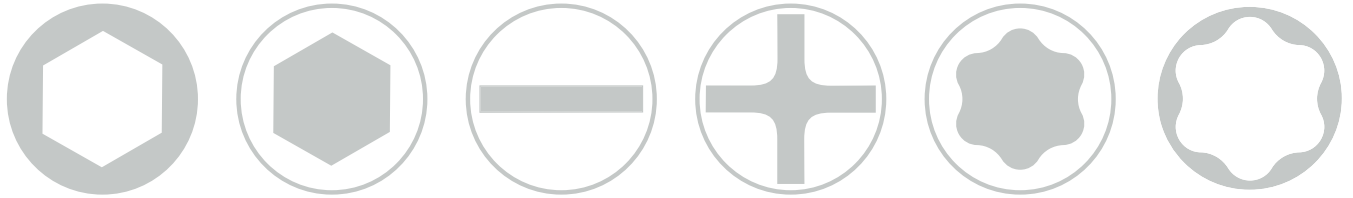


Art. Code				a mm	b mm	g	
2135 9280	MM	2061		220	110	850	1
2135 9281	AF	2061		220	110	850	1
2135 9282	MM	2063		220	110	950	1
2135 9283	AF	2063		220	110	950	1
2064 115 mm 2065 50, 100 mm 2068 2073 150 mm 2075 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 13 mm AF: 1/8 - 5/32 - 3/16 - 7/32 - 1/4 - 9/32 - 5/16 - 11/32 - 3/8 - 7/16 - 1/2" 2076 4 - 5.5 - 7 x 32 mm 2077 PH 1 - PH 2 - PH 3 x 32 mm 2078 3 - 4 - 5 - 6 - 8 x 32 mm							

Art. Code				a mm	b mm	g	
2136 9320	MM	2061		220	110	900	1
2136 9321	AF	2061		220	110	900	1
2136 9322	MM	2063		220	110	1000	1
2136 9323	AF	2063		220	110	1000	1
2064 115 mm 2065 50, 100 mm 2068 2073 150 mm 2075 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 13 mm AF: 1/8 - 5/32 - 3/16 - 7/32 - 1/4 - 9/32 - 5/16 - 11/32 - 3/8 - 7/16 - 1/2" 2090 E4 - E5 - E6 - E7 - E8 - E10 - E11 2092 T8 - T10 - T15 - T20 - T25 - T27 - T30 - T40 x 32 mm							

In solid metal case.

MATADOR Socket Sets Pro. Everything you want in 6.3 mm (1/4").



2140 Socket Sets Pro 6.3 (1/4)



Art. Code	46	MM	6	2061	a mm	b mm	g	
2140 9460	46	MM	6	2061	315	115	1100	1
2140 9461	46	AF	6	2061	315	115	1100	1
<ul style="list-style-type: none"> 2064 115 mm 2065 50, 100 mm 2068 2073 150 mm 2075 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm AF: 1/8 - 5/32 - 3/16 - 7/32 - 1/4 - 9/32 - 5/16 - 11/32 - 3/8 - 13/32 - 7/16 - 1/2 - 9/16" 2076 4 - 7 x 32 mm 2077 PH 1 - PH 2 x 32 mm 2077 PZ 1 - PZ 2 x 32 mm 2078 3 - 4 - 5 - 6 - 8 x 32 mm 2090 E4 - E5 - E6 - E7 - E8 - E10 - E11 2092 T8 - T10 - T15 - T20 - T25 - T27 - T30 - T40 x 32 mm 2084 6.3 (1/4) - 6.3 (1/4) Bit 								

2140 Socket Sets Pro 6.3 (1/4)



Art. Code	46	MM	6	2063	a mm	b mm	g	
2140 9462	46	MM	6	2063	315	115	1200	1
2140 9463	46	AF	6	2063	315	115	1200	1
<ul style="list-style-type: none"> 2064 115 mm 2065 50, 100 mm 2068 2073 150 mm 2075 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm AF: 1/8 - 5/32 - 3/16 - 7/32 - 1/4 - 9/32 - 5/16 - 11/32 - 3/8 - 13/32 - 7/16 - 1/2 - 9/16" 2076 4 - 7 x 32 mm 2077 PH 1 - PH 2 x 32 mm 2077 PZ 1 - PZ 2 x 32 mm 2078 3 - 4 - 5 - 6 - 8 x 32 mm 2090 E4 - E5 - E6 - E7 - E8 - E10 - E11 2092 T8 - T10 - T15 - T20 - T25 - T27 - T30 - T40 x 32 mm 2084 6.3 (1/4) - 6.3 (1/4) Bit 								

All in one socket set and screwdriver assortment.

The MATADOR SMARTY Box. Simply brilliant.

Compact size, fits into almost every place, even in your pocket or desk.



Professional Bitholder with magnetic and mechanic interlock.



MFS MATADOR FOAM SYSTEM.



With extra long screwdriver bits (75 mm) and 30 standard bits (25 mm) with **color guide system** for quick identification.



With MATADOR **Multi-Ratchet 2063** with metal handle and 72 teeth precision gear technology.



- Fine-toothed reversible ratchet	- Screwdriver with ratchet function	- Perfect for special applications	- T-Handle for high torque transmission

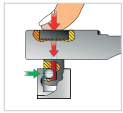
2155 Smarty Box 6.3 (1/4)

Art. Code	MM	a mm	b mm	g	
2155 0001	47	145	90	850	1
<ul style="list-style-type: none"> 2063 2065 50 mm 2075 6 - 7 - 8 - 9 - 10 - 11 - 13 mm 2084 6.3 (1/4) - 6.3 (1/4) Bit 7026 3 - 3.5 - 4.5 - 5.5 - 6.5 x 25 mm 4 - 6 x 75 mm 7027 PH 0 - PH 1 - PH 2 - PH 2 - PH 3 x 25 mm PH 1 - PH 2 x 75 mm 7027 PZ 0 - PZ 1 - PZ 2 - PZ 2 - PZ 3 x 25 mm 7028 3 - 4 - 5 - 6 x 25 mm 7033 T6 - T7 - T8 - T9 - T10 - T15 - T20 - T25 - T27 - T30 - T40 x 25 mm T25 - T30 x 75 mm 7047 6.3 (1/4) Bit 					

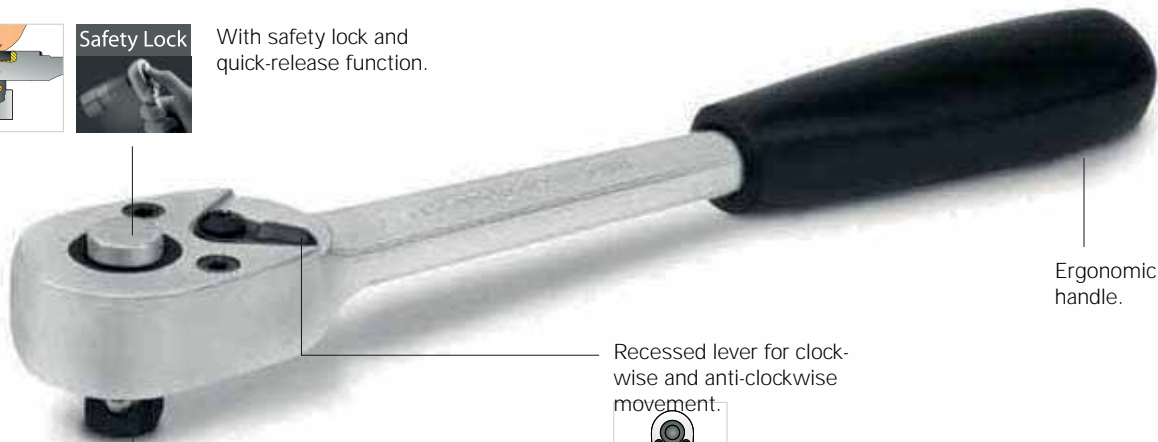


Compact size, high torque values.

Ratchets and sockets in 10 mm (3/8"). The perfect compromise.



Safety Lock With safety lock and quick-release function.



Ergonomic handle.

Recessed lever for clockwise and anti-clockwise movement.



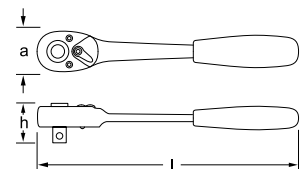
With square drive as per DIN 3120 - C 10 / ISO 1174.

3061 Reversible Ratchet



- Small ratchet head for confined spaces
- With safety lock and quick-release function
- With lever
- Robust toothing with 36 teeth
- For hand-operated sockets and adapters
- With square drive as per DIN 3120 - C 10 / ISO 1174

- Standards: DIN 3122 / ISO 3315
- Material: Chrome Vanadium
- Surface: Matt chrome finish



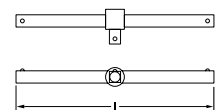
Art. Code	mm	"	l mm	a mm	h mm	g	
3061 0001	10	3/8	195	30	30	260	10
3061 0010	Repair Kit					102	1

3064 Sliding T-Handle



- Can be used as T-Handle, with sliding square drive
- With ball locking device
- For hand-operated sockets and adapters
- Square acc. to DIN 3120 - A 10 / ISO 1174

- Standards: DIN 3122 / ISO 3315
- Material: Chrome Vanadium
- Surface: Super-Chrom

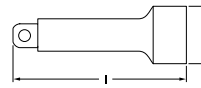


Art. Code	mm	"	l mm	g	
3064 0001	10	3/8	200	170	10

3065 Extensions

- With ball locking device
- With non-slip cross knurling
- For hand-operated sockets and adapters
- With square drive as per DIN 3120 - A 10 and C 10 / ISO 1174

- Standards: DIN 3123 / ISO 3315
- Material: Chrome Vanadium
- Surface: Super-Chrom



3/8 10 mm 3/8 10 mm

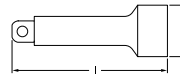


Art. Code	mm	"	mm	"	d mm	l mm	l "	g	
3065 0001	10	3/8	10	3/8	18	125	5	120	10
3065 0002	10	3/8	10	3/8	18	250	10	210	10

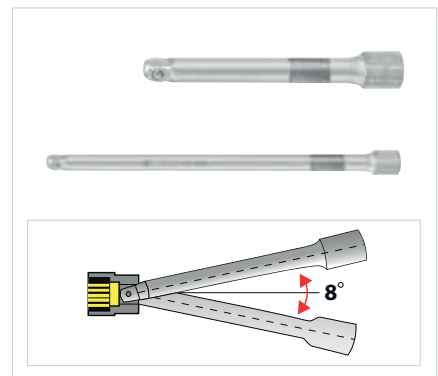
3066 Extensions (Wobble Type)

- Allow the socket to turn off center on the extension by 8° in each direction
- With non-slip cross knurling
- With ball locking device
- For hand-operated sockets and adapters

- Standards: DIN 3123 / ISO 3316
- Material: Chrome Vanadium
- Surface: Super-Chrom



3/8 10 mm 3/8 10 mm

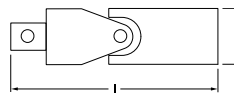


Art. Code	mm	"	mm	"	d mm	l mm	l "	g	
3066 0001	10	3/8	10	3/8	18	75	2.5	110	10
3066 0002	10	3/8	10	3/8	18	125	5	210	10

3068 Universal Joint

- With ball locking device
- For hand-operated sockets and adapters
- With square drive as per DIN 3120 - A 10 and C 10 / ISO 1174

- Standards: DIN 3123 / ISO 3316
- Material: Chrome Vanadium
- Surface: Super-Chrom



3/8 10 mm 3/8 10 mm

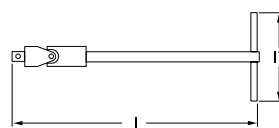


Art. Code	mm	"	mm	"	d mm	l mm	g	
3068 0001	10	3/8	10	3/8	19	55	75	10

3074 T-Handle Extension

- Very functional, for hard-to-reach areas
- Can be used as T-Handle or L-Handle
- Can also be used as extension together with a ratchet thanks to inner square C 10 on the T-Handle side
- With universal joint for flexible use
- With ball locking device
- For hand-operated sockets and adapters
- With square drive as per DIN 3120 - A 10 / ISO 1174

- Standards: DIN 3123 / ISO 3316
- Material: Chrome Vanadium
- Surface: Super-Chrom



3/8 10 mm 3/8 10 mm



Art. Code	mm	"	mm	"	l mm	l "	l1 mm	l1 "	g	
3074 0001	10	3/8	10	3/8	500	20	200	8	350	10

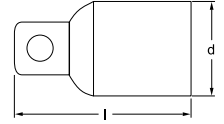
3082 Reducer



- With ball locking device
- For hand-operated sockets and adapters
- With square drive as per DIN 3120 - C 10 and A 6.3 / ISO 1174

- Standards: DIN 3123 / ISO 3316
- Material: Chrome Vanadium
- Surface: Super-Chrom

1/4 **6.3 mm** **3/8** **10 mm**



Art. Code	mm	"	mm	"	d mm	l mm	g	
3082 0001	6,3	1/4	10	3/8	17	27	30	10

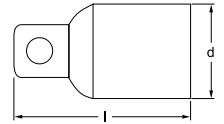
3083 Converter



- With ball locking device
- With non-slip cross knurling
- For hand-operated sockets and adapters
- With square drive as per DIN 3120 - C 10 and A 12.5 / ISO 1174

- Standards: DIN 3123 / ISO 3316
- Material: Chrome Vanadium
- Surface: Super-Chrom

1/2 **12.5 mm** **3/8** **10 mm**



Art. Code	mm	"	mm	"	d mm	l mm	g	
3083 0001	12,5	1/2	10	3/8	18	35	40	10

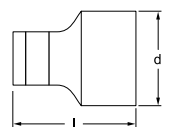
3084 Bit Adapter



- For inserting bits with hexagon shank
- With spring clip
- With hexagon socket acc. to DIN 3126 and inner square acc. to DIN 3120 - C 10

- Standards: DIN 3126 / 3120
- Material: Chrome Vanadium
- Surface: Super-Chrom

1/4 **6.3 mm** **3/8** **10 mm**

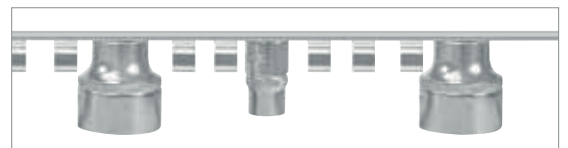


Art. Code	mm	"	mm	"	d mm	l mm	g	
3084 0001	10	3/8	6,3	1/4	17	30	50	10

3099 Socket Rail



- For wall mounting
- For 14 sockets
- For square drive acc. to DIN 3120 - C 10 / ISO 1174
- Supplied without tools



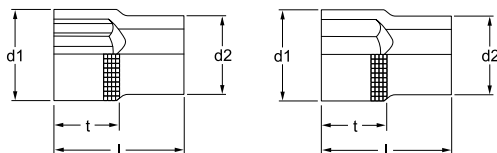
3/8 **10 mm**

Art. Code	l mm	g	
3099 0001	410	67	1

3075 Sockets (MM)

- For hexagon head screws
- For hand operation
- Square drive acc. to DIN 3120 - C 10 / ISO 1174
- With six point or double six point profile
- With non-slip cross knurling
- With MATADOR SmartDrive profile
- MATADOR Super-Chrom for long-lasting rust protection

- Standards: DIN 3124 / ISO 2725-1
- Material: Chrome Vanadium
- Surface: Super-Chrom

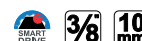


Art. Code	mm	Art. Code	mm	t mm	l mm	d1 mm	d2 mm	g	
3075 0060	6	3075 1060	6	5	28	9.3	17.0	20	10
3075 0070	7	3075 1070	7	5	28	10.6	17.0	22	10
3075 0080	8	3075 1080	8	9	28	11.8	17.0	24	10
3075 0090	9	3075 1090	9	9	28	13.2	17.0	26	10
3075 0100	10	3075 1100	10	9	28	14.5	17.0	30	10
3075 0110	11	3075 1110	11	9	28	15.7	17.0	30	10
3075 0120	12	3075 1120	12	9	28	17.0	17.0	32	10
3075 0130	13	3075 1130	13	9	28	18.0	17.0	35	10
3075 0140	14	3075 1140	14	11	28	19.6	17.0	40	10
3075 0150	15	3075 1150	15	13	28	20.9	18.0	42	10
3075 0160	16	3075 1160	16	13	28	22.0	18.0	48	10
3075 0170	17	3075 1170	17	13	30	23.4	18.0	55	10
3075 0180	18	3075 1180	18	13	30	24.6	18.0	60	10
3075 0190	19	3075 1190	19	13	30	26.0	20.0	70	10
3075 0200	20	3075 1200	20	13	30	27.1	20.0	75	10
3075 0210	21	3075 1210	21	14	30	28.0	20.0	82	10
3075 0220	22	3075 1220	22	15	32	30.0	20.0	85	10

3075 Sockets (AF)

- For hexagon head screws
- For hand operation
- Square drive acc. to DIN 3120 - C 10 / ISO 1174
- With non-slip cross knurling
- With MATADOR SmartDrive profile

- MATADOR Super-Chrom for long-lasting rust protection
- Standards: DIN 3124 / ISO 2725-1
- Material: Chrome Vanadium
- Surface: Super-Chrom



Art. Code	*AF		t mm	l mm	d1 mm	d2 mm	g	
3075 8001	1/4	6	6	28	9.2	17.0	20	10
3075 8002	9/32	6	7	28	11.1	17.0	22	10
3075 8003	5/16	6	7	28	11.5	17.0	24	10
3075 8004	11/32	12	7	28	13.0	17.0	26	10
3075 8005	3/8	12	9	28	14.6	17.0	26	10
3075 8006	7/16	12	10	28	16.0	17.0	30	10
3075 8007	1/2	12	12	28	18.0	17.0	30	10
3075 8008	9/16	12	13	28	20.0	17.0	30	10
3075 8009	5/8	12	13	28	22.0	18.0	40	10
3075 8010	11/16	12	14	30	24.0	18.0	50	10
3075 8011	3/4	12	15	30	26.0	20.0	60	10
3075 8012	13/16	12	16	30	28.0	20.0	70	10
3075 8013	7/8	12	18	30	30.0	20.0	80	10

3081 Sockets, long type



- For outside TORX® screws
- For hand operation
- Square drive acc. to DIN 3120 - C 10 / ISO 1174

- With non-slip cross knurling
- Material: Chrome Vanadium
- Surface: Super-Chrom

Art. Code	mm	t mm	l mm	d1 mm	d2 mm	g
3081 0080	8	10	65	11,8	17,0	110
3081 0100	10	11	65	14,5	17,0	110
3081 0110	11	12	65	15,7	17,0	120
3081 0120	12	14	65	17,0	16,4	120
3081 0130	13	14	65	18,0	17,0	140
3081 0140	14	17	65	19,6	17,0	140

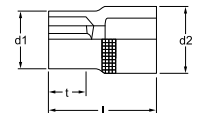
Art. Code	mm	t mm	l mm	d1 mm	d2 mm	g
3081 0150	15	17	65	20,9	18,0	140
3081 0170	17	17	65	23,4	18,0	150
3081 0190	19	20	65	26,0	20,0	150
3081 0210	21	20	65	28,0	20,0	150
3081 0220	22	23	65	30,0	20,0	160

3090 Sockets (TORX®)



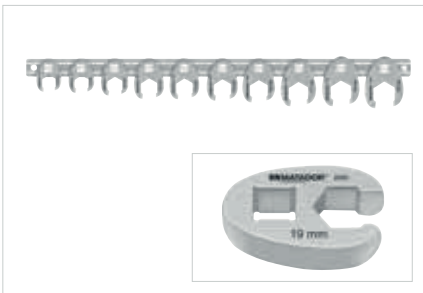
- For outside TORX® screws
- For hand operation
- Square drive acc. to DIN 3120 - C 10 / ISO 1174
- With non-slip cross knurling
- MATADOR Super-Chrom for long-lasting rust protection

- Material: Chrome Vanadium
- Surface: Super-Chrom



Art. Code		t mm	l mm	d1 mm	d2 mm	g
3090 0080	E8	7	28	10	17	27
3090 0100	E10	8	28	12	17	28
3090 0110	E11	8	28	13	17	29
3090 0120	E12	8	28	14	17	30
3090 0140	E14	10	28	15	17	34

3093 Set Crowfoot Sockets



- For hard-to-reach areas, e.g. pipe connections and sleeve nuts
- For mounting on a square drive acc. to DIN 3120 - C 10 / ISO 1174

- With six point profile
- Material: Chrome Vanadium
- Surface: Matt chrome finish

Art. Code		g
3093 9100	10	590

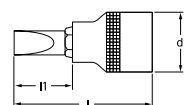
3093 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm

3076 Screwdriver Bit Sockets (Slotted)



- For slotted screws
- Extra hard tips made of special steel
- For hand operation
- Square drive acc. to DIN 3120 - C 10 / ISO 1174
- Standard: DIN ISO 2380-1 Form B
- Material: Chrome Vanadium / tip made of special steel

- Surface: Super-Chrom / tip manganese phosphated



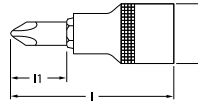
Art. Code	mm	mm	l mm	l1 mm	d mm	g
3076 0070	1.0	7	48	22	18	27
3076 0080	1.2	8	48	22	18	28
3076 0090	1.6	9	48	22	18	29

3077 Screwdriver Bit Sockets (PH)



- For cross-slotted screws PH
- Extra hard tips made of special steel
- For hand operation
- Square drive acc. to DIN 3120 - C 10 / ISO 1174
- With non-slip cross knurling
- MATADOR Super-Chrom for long-lasting rust protection

- Standard: DIN ISO 8764-1 PH
- Material: Chrome Vanadium / tip made of special steel
- Surface: Super-Chrom / tip manganese phosphated



Art. Code	PH	l mm	l1 mm	d mm	g
3077 0001	1	48	22	18	27
3077 0002	2	48	22	18	28
3077 0003	3	48	22	18	29

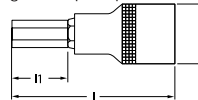


3078 Screwdriver Bit Sockets (Hex)



- For hexagon socket screws
- Extra hard tips made of special steel
- For hand operation
- Square drive acc. to DIN 3120 - C 10 / ISO 1174
- With non-slip cross knurling
- MATADOR Super-Chrom for long-lasting rust protection

- Standard: DIN 7422
- Material: Chrome Vanadium / tip made of special steel
- Surface: Super-Chrom / tip manganese phosphated



Art. Code	mm	l mm	l1 mm	d mm	g
3078 0040	4	48	22	18	35
3078 0050	5	48	22	18	35
3078 0060	6	48	22	18	36
3078 0070	7	48	22	18	38
3078 0080	8	48	22	18	40
3078 0100	10	48	22	18	48
3078 1040	4	92	66	18	68
3078 1050	5	92	66	18	68
3078 1060	6	92	66	18	68
3078 1070	7	92	66	18	68
3078 1080	8	92	66	18	70
3078 1100	10	92	66	18	71

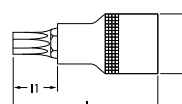


3079 Screwdriver Bit Sockets (XZN)



- For multi-point screws XZN
- Extra hard tips made of special steel
- In standard length (48 mm) or extra long for deep screw connections (92 mm)
- Square drive acc. to DIN 3120 - C 12.5 / ISO 1174
- With non-slip cross knurling

- Material: Chrome Vanadium / tip made of special steel
- Surface: Super-Chrom / tip manganese phosphated



Art. Code		l mm	l1 mm	d mm	g
3079 0050	M5	48	22	18	35
3079 0060	M6	48	22	18	35
3079 0080	M8	48	22	18	30
3079 0100	M10	48	22	18	40
3079 1080	M8	92	66	18	70
3079 1100	M10	92	66	18	82

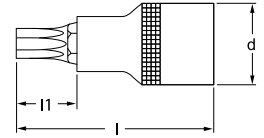


3092 Screwdriver Bit Sockets (TORX®)



- For recessed TORX® screws
- Extra hard tips made of special steel
- In standard length (48 mm) or extra long for deep screw connections (92 mm)
- For hand operation
- Square drive acc. to DIN 3120 - C 10 / ISO 1174
- With non-slip cross knurling

- Material: Chrome Vanadium / tip made of special steel
- Surface: Super-Chrom / tip manganese phosphated



Art. Code		l mm	l1 mm	d mm	g	
3092 0150	T15	48	22	18	34	10
3092 0200	T20	48	22	18	34	10
3092 0250	T25	48	22	18	34	10
3092 0270	T27	48	22	18	34	10
3092 0300	T30	48	22	18	35	10
3092 0400	T40	48	22	18	35	10
3092 0450	T45	48	22	18	37	10
3092 0500	T50	48	22	18	45	10



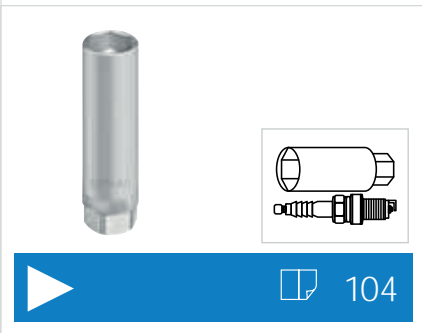
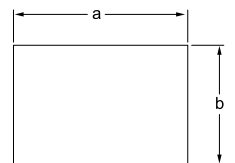
Art. Code		l mm	l1 mm	d mm	g	
3092 1150	T15	92	66	18	68	10
3092 1200	T20	92	66	18	68	10
3092 1250	T25	92	66	18	68	10
3092 1270	T27	92	66	18	68	10
3092 1300	T30	92	66	18	70	10
3092 1400	T40	92	66	18	71	10
3092 1450	T45	92	66	18	100	10
3092 1500	T50	92	66	18	110	10

3092 Screwdriver Bit Sockets Set (TORX®)



- For recessed TORX® head screws
- The 7 most important sizes in one set
- In standard length (48 mm) and extra long for deep screw connections (92 mm)
- For hand operation
- Square drive acc. to DIN 3120 - C 6.3 / ISO 1174
- In solid metal case, durable quality, black powder coated

- Material: Chrome Vanadium / tip made of special steel
- Surface: Super-Chrom / tip manganese phosphated



Art. Code		a mm	b mm	g	
3092 9140		170	105	1000	1

3092 T20 - T25 - T27 - T30 - T40 - T45 - T50 x 48 mm
T20 - T25 - T27 - T30 - T40 - T45 - T50 x 92 mm

In solid metal case.

MATADOR Socket Sets 10 mm (3/8").



MFS MATADOR
FOAM SYSTEM.

With black foam inlay,
resistant against oil and
lubricants.

METAL

In solid metal case,
durable quality,
black powder
coated.



3115 Socket Sets 10 (3/8)



Art. Code	Icon	MM	Icon	a mm	b mm	g	Icon
3115 9210		6		315	115	2400	1
3115 9211		12		315	115	2400	1
3115 9170		6		315	115	2400	1
<ul style="list-style-type: none"> 3061 3065 125, 250 mm 3068 3075 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 18 - 19 - 20 - 21 - 22 mm AF: 1/4 - 9/32 - 5/16 - 11/32 - 3/8 - 7/16 - 1/2 - 9/16 - 5/8 11/16 - 3/4 - 13/16 - 7/8" 							

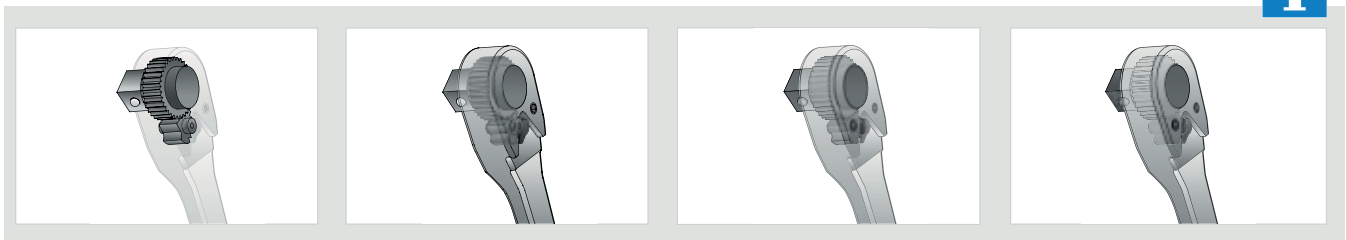
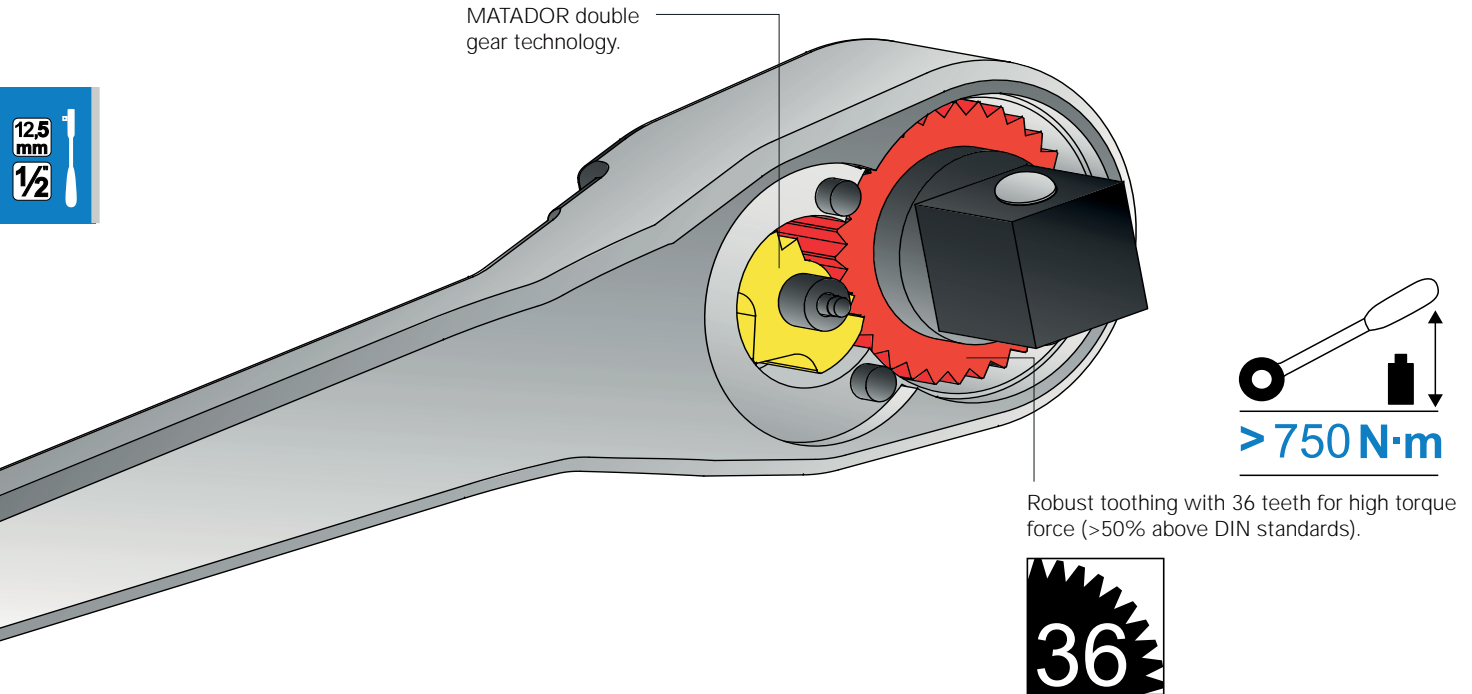
3125 Socket Sets (TORX®) 10 (3/8)



Art. Code	Icon	MM	Icon	a mm	b mm	g	Icon
3125 9390		6		445	185	3200	1
3125 9391		12		445	185	3200	1
3125 9350		6		445	185	3200	1
<ul style="list-style-type: none"> 3061 3065 125, 250 mm 3068 3075 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 18 - 19 - 20 - 21 - 22 mm AF: 1/4 - 9/32 - 5/16 - 11/32 - 3/8 - 7/16 - 1/2 - 9/16 - 5/8 11/16 - 3/4 - 13/16 - 7/8" 3078 4 - 5 - 6 - 7 - 8 - 10 x 48 mm 3090 E8 - E10 - E11 - E12 - E14 3092 T15 - T20 - T25 - T27 - T30 - T40 - T45 x 48 mm 							

German technology. Millionfold tried and tested.

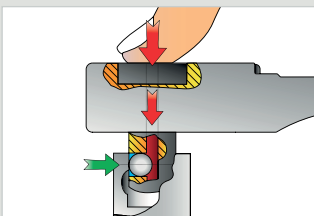
12 high precision parts. Well matched.
More than 800 N·m.



The MATADOR locking system.

The push button socket lock accelerates the work needed to attach and detach inserts and extensions. It resists a socket pull-off load of over 60 kg and **prevents accidental socket loss.**

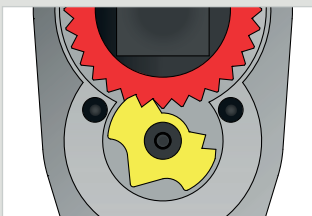
A quick press on the release button and tools can be changed quickly. For all sockets and extensions with internal ball groove.



Superior German ratchet technology.

The heart of the MATADOR ratchet is the pawl which is made of very **special high-grade steel** and fully automatically produced using the latest CNC machinery.

Due to its **double gear technology** the pawl smoothly distributes **very high torque values.** And thanks to its 36-tooth mechanism the ratchet transmits much higher torque forces than a 72-tooth ratchet.



Slim and flat shape.

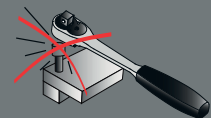
MATADOR manufactures its ratchets only with **slim and flat** shapes.

Made from high-grade Chrome Vanadium steel and hot forged under perfect conditions the shaft allows heavy and constant use for any job and any situation.



Care instructions for ratchets.

High quality ratchets from MATADOR can be used for a life-time operation, if they are treated with a little care: **Never use the ratchet as a hammer!**

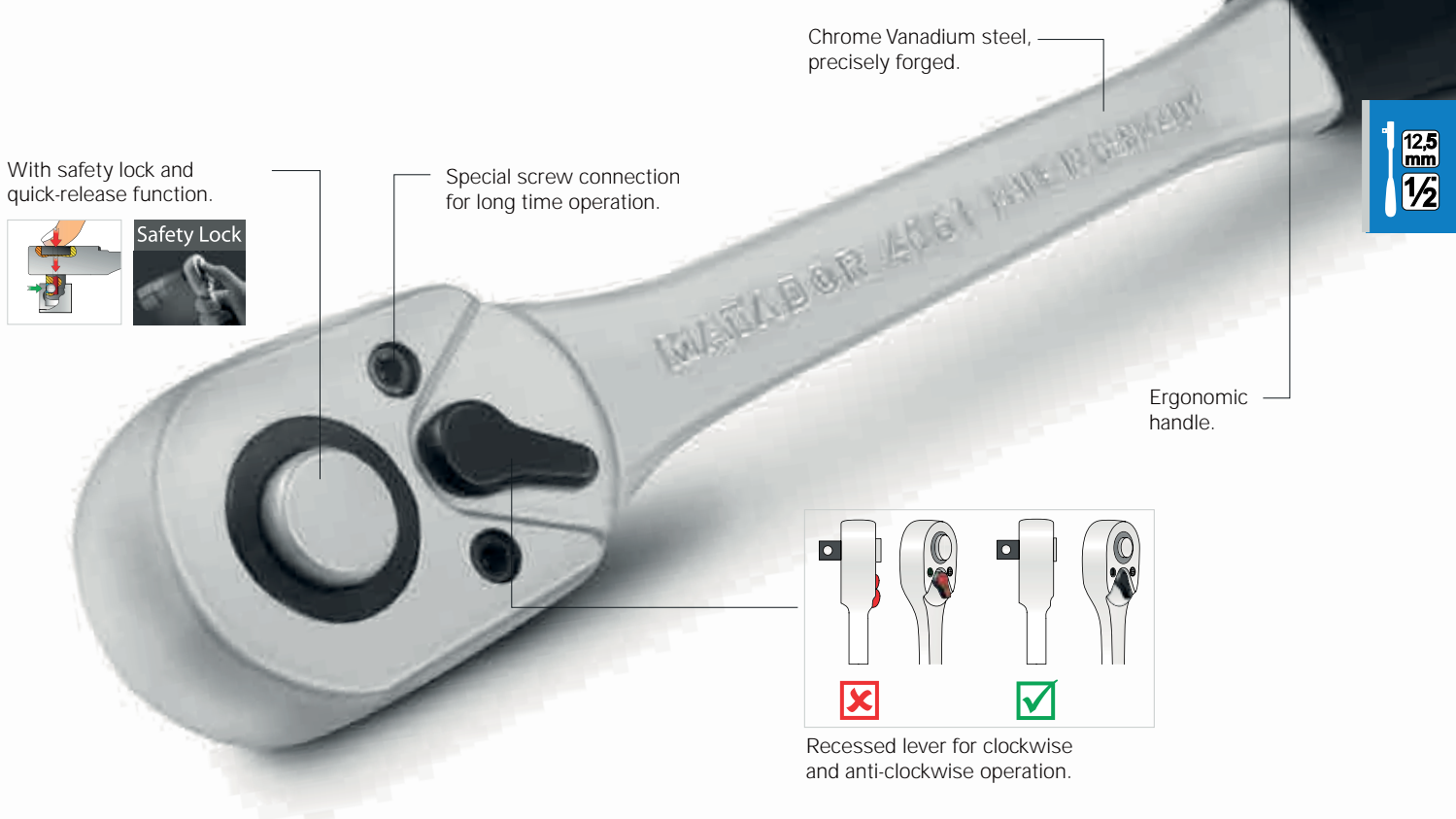


Do not clean the ratchet under water as this reduces the lubrication of the gear mechanism.



Developed more than 90 years ago. Continuously improved. Experience matters.

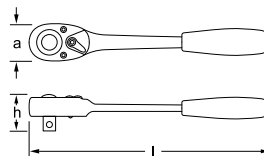
The MATADOR 4061. More than a simple ratchet. Made in Germany.



4061 Reversible Ratchet

- Small ratchet head for confined spaces
- With safety lock and quick-release function
- With lever
- Robust tothing with 36 teeth
- For hand-operated sockets and adapters
- With square drive as per DIN 3120 - C 12.5 / ISO 1174

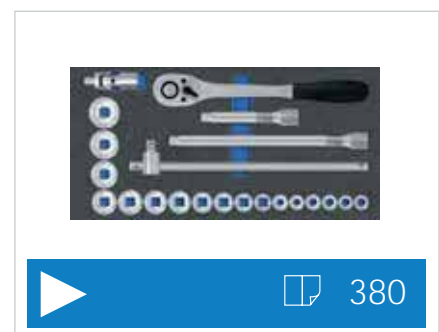
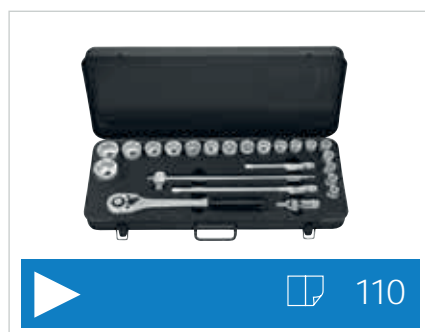
- Standards: DIN 3122 / ISO 3315
- Material: Chrome Vanadium
- Surface: Matt chrome finish



36 1/2 12.5 mm



Art. Code	mm	"	l mm	a mm	h mm	g	
4061 0001	12.5	1/2	250	40	40	580	10
4061 0010	Repair Kit					135	1

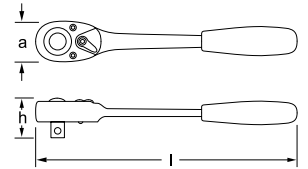


4061 Reversible Ratchet (72 T)



- Small ratchet head for confined spaces
- With safety lock and quick-release function
- With lever
- Fine-toothed with 72 teeth
- For hand-operated sockets and adapters
- With square drive as per DIN 3120 - C 12.5 / ISO 1174

- Standards: DIN 3122 / ISO 3315
- Material: Chrome Vanadium
- Surface: Matt chrome finish



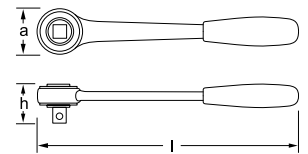
Art. Code	mm	"	l mm	a mm	h mm	g	
4061 0003	12.5	1/2	250	40	40	580	10

4062 Push-Through Ratchet



- Ideal for step keys for radiator valves
- Robust toothing with 36 teeth
- For hand-operated sockets and adapters
- With square coupler as per DIN 3120 - C 12,5 / ISO 1174

- Standards: DIN 3123 / ISO 3316
- Material: Chrome Vanadium
- Surface: Matt chrome finish



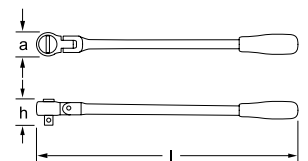
Art. Code	mm	"	l mm	a mm	h mm	g	
4062 0001	12.5	1/2	265	43	39	450	10
4062 0002	Square coupler					50	1

4063 Swivelling Ratchet



- Small ratchet head for confined spaces
- With safety lock and quick-release function
- With disc lever
- Fine-toothed with 72 teeth
- For hand-operated sockets and adapters
- With square drive as per DIN 3120 - C 12.5 / ISO 1174

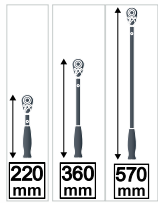
- Standards: DIN 3122 / ISO 3315
- Material: Chrome Vanadium
- Surface: Matt chrome finish



Art. Code	mm	"	l mm	a mm	h mm	g	
4063 0001	12.5	1/2	400	35	40	730	10
4063 0010	Repair Kit					45	1

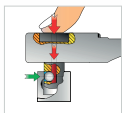
Short or long type. It is your choice.

A heavy duty ratchet for any job and any situation.



With 3 extensions for all applications.

Ergonomic handle.



Safety Lock

With safety lock and quick-release function.



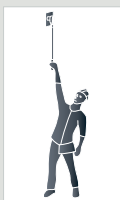
→ Extremely high torque even with full length.



→ Perfect as a long arm in hard-to-reach areas.



→ Simplifies your work in all special applications.

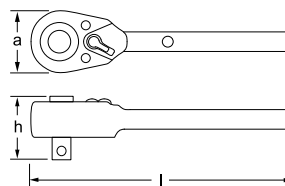


4061 Reversible Ratchet (3in1)



- Extendable in three steps: 220 mm, 360 mm and 570 mm (length including ratchet)
- Especially suitable for various application in industry and automotive
- With safety lock and quick-release function
- With lever
- Fine-toothed with 72 teeth
- For hand-operated sockets and adapters
- With square drive as per DIN 3120 - C 12.5 / ISO 1174

- Standards: DIN 3122 / ISO 3315
- Material: Chrome Vanadium
- Surface: Matt chrome finish



Art. Code	mm	"	l mm	a mm	h mm	g	
4061 0020	12.5	1/2	175	42	37	1800	10

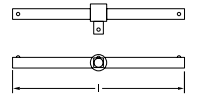
4064 Sliding T-Handle



- Can be used as T- or L-Handle, with sliding square drive
- With ball locking device
- For hand-operated sockets and adapters
- Square acc. to DIN 3120 - A 12.5 / ISO 1174

- Standards: DIN 3122 / ISO 3315
- Material: Chrome Vanadium
- Surface: Super-Chrom

1/2 12.5 mm



Art. Code	mm	"	l mm	g	
4064 0001	12.5	1/2	300	380	10

4065 Extensions



- With ball locking device
- With non-slip cross knurling
- For hand-operated sockets and adapters
- Square acc. to DIN 3120 - A 12.5 and C 12.5 / ISO 1174

- Standards: DIN 3123 / ISO 3316
- Material: Chrome Vanadium
- Surface: Super-Chrom

1/2 12.5 mm 1/2 12.5 mm

Art. Code	mm	"	mm	"	d mm	l mm	l "	g	
4065 0001	12.5	1/2	12.5	1/2	25	75	3	120	10
4065 0002	12.5	1/2	12.5	1/2	25	125	5	220	10
4065 0003	12.5	1/2	12.5	1/2	25	250	10	400	10

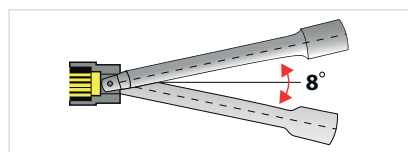
4066 Extensions (Wobble Type)



- Allow the socket to turn off center on the extension by 8° in each direction
- With non-slip cross knurling
- With ball locking device
- For hand-operated sockets and adapters
- Square acc. to DIN 3120 - A 12.5 and C 12.5 / ISO 1174

- Standards: DIN 3123 / ISO 3316
- Material: Chrome Vanadium
- Surface: Super-Chrom

1/2 12.5 mm 1/2 12.5 mm



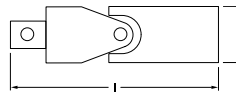
Art. Code	mm	"	mm	"	d mm	l mm	l "	g	
4066 0001	12.5	1/2	12.5	1/2	25	125	5	220	10
4066 0002	12.5	1/2	12.5	1/2	25	250	10	430	10



4068 Universal Joint

- With ball locking device
- For hand-operated sockets and adapters
- Square acc. to DIN 3120 - A 12.5 and C 12.5 / ISO 1174

- Standards: DIN 3123 / ISO 3316
- Material: Chrome Vanadium
- Surface: Super-Chrom

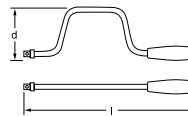


Art. Code	mm	"	mm	"	l mm	g	
4068 0001	12.5	1/2	12.5	1/2	75	160	10

4070 Speed Brace

- For quick operation
- With black plastic handle
- With ball locking device
- For hand-operated sockets and adapters
- Square acc. to DIN 3120 - A 12.5 / ISO 1174

- Standards: DIN 3122 / ISO 3315
- Material: Chrome Vanadium
- Surface: Super-Chrom

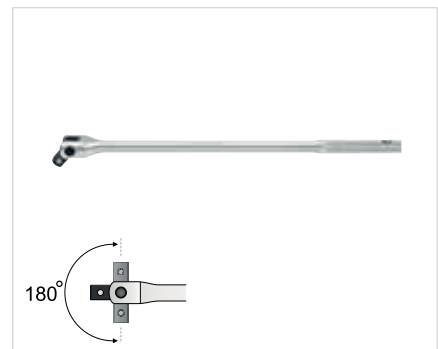
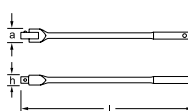


Art. Code	mm	"	d mm	l mm	g	
4070 0001	12.5	1/2	130	350	570	10

4072 Swivel Handle

- With metal handle
- With ball locking device
- For hand-operated sockets and adapters
- Square acc. to DIN 3120 - A 12.5 / ISO 1174

- Standards: DIN 3122 / ISO 3315
- Material: Chrome Vanadium
- Surface: Super-Chrom

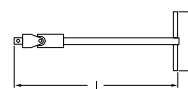


Art. Code	mm	"	l mm	a mm	h mm	g	
4072 0001	12.5	1/2	375	30	20	630	5

4074 T-Handle Extension

- Very functional, for hard-to-reach areas
- With universal joint for flexible use
- Can be used as T-handle or L-handle
- Can also be used as extension together with a ratchet thanks to inner square on the T-handle side
- With ball locking device
- For hand-operated sockets and adapters
- Square acc. to DIN 3120 - A 12.5 and C 12.5 / ISO 1174

- Standards: DIN 3123 / ISO 3316
- Material: Chrome Vanadium
- Surface: Super-Chrom



Art. Code	mm	"	mm	"	l mm	l" "	l1 mm	l1" "	g	
4074 0001	12.5	1/2	12.5	1/2	500	20	200	8	750	5

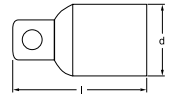
4082 Reducer

3/8 **10 mm** **1/2** **12.5 mm**



- With ball locking device
- With non-slip cross knurling
- For hand-operated sockets and adapters
- Square acc. to DIN 3120 - A 10 and C 12.5 / ISO 1174

- Standards: DIN 3123 / ISO 3316
- Material: Chrome Vanadium
- Surface: Super-Chrom



Art. Code	mm	"	mm	"	d mm	l mm	g	
4082 0001	10.0	3/8	12.5	1/2	22	36	50	10

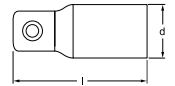
4083 Converter

3/4 **20 mm** **1/2** **12.5 mm**



- With ball locking device
- For hand-operated sockets and adapters
- Square acc. to DIN 3120 - A 20 and C 12.5 / ISO 1174

- Standards: DIN 3123 / ISO 3316
- Material: Chrome Vanadium
- Surface: Super-Chrom



Art. Code	mm	"	mm	"	d mm	l mm	g	
4083 0001	20.0	3/4	12.5	1/2	25	46	110	10

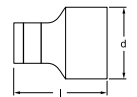
4084 Bit Adapters

1/2 **12.5 mm**



- For hand as well as machine operation
- For inserting bits with hex shank
- With spring clip
- With hexagon socket acc. to DIN 3126 and inner square acc. to DIN 3120 - C 12.5

- Standards: DIN 3126 / 3120
- Material: Chrome Vanadium
- Surface: Super-Chrom



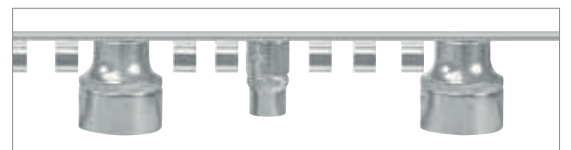
Art. Code	mm	"	mm	"	d mm	l mm	g	
4084 0001	12.5	1/2	6.3	1/4	25	38	45	10
4084 0002	12.5	1/2	7.94	5/16	25	38	60	10
4084 0003	12.5	1/2	11.11	7/16	25	38	80	10

4099 Socket Rail

1/2 **12.5 mm**



- For wall mounting
- For 14 sockets
- Nominal size 12 (1/2")
- Supplied without tools



Art. Code	l mm	g	
4099 0001	410	67	1

The perfect surface treatment.

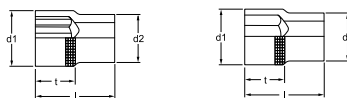
MATADOR Super Chrome. The original since 1934.



4075 Sockets (MM)

- For hexagon head screws
- For hand operation
- Square drive acc. to DIN 3120 - C 12.5 / ISO 1174
- With six point or double six point profile
- With non-slip cross knurling
- With MATADOR SmartDrive profile
- MATADOR Super-Chrom for long-lasting rust protection

- Standard: DIN 3124 / ISO 2725-1
- Material: Chrome Vanadium
- Surface: Super-Chrom



Art. Code	mm	Art. Code	mm	t mm	l mm	d1 mm	d2 mm	g	
4075 0080	8	--	--	6	38	12.2	22.0	45	10
4075 0090	9	--	--	6	38	13.5	22.0	48	10
4075 0100	10	4075 1100	10	7	38	15.0	22.0	50	10
4075 0110	11	4075 1110	11	8	38	16.3	22.0	53	10
4075 0120	12	4075 1120	12	9	38	17.6	22.0	55	10
4075 0130	13	4075 1130	13	9	38	18.8	22.0	60	10
4075 0140	14	4075 1140	14	11	38	20.4	22.0	62	10
4075 0150	15	4075 1150	15	11	38	21.0	22.0	65	10
4075 0160	16	4075 1160	16	11	38	22.0	22.0	68	10
4075 0170	17	4075 1170	17	11	38	24.0	22.0	70	10
4075 0180	18	4075 1180	18	12	38	26.0	22.0	72	10
4075 0190	19	4075 1190	19	12	38	26.0	22.0	80	10
4075 0200	20	4075 1200	20	12	38	28.0	22.0	85	10
4075 0210	21	4075 1210	21	12	38	28.0	26.0	95	10
4075 0220	22	4075 1220	22	14	38	30.0	26.0	100	10
4075 0230	23	4075 1230	23	14	38	32.0	26.0	105	10
4075 0240	24	4075 1240	24	16	38	32.0	26.0	110	10
4075 0250	25	4075 1250	25	16	42	34.0	26.0	120	5
4075 0260	26	4075 1260	26	16	42	36.0	28.0	130	5
4075 0270	27	4075 1270	27	18	42	36.0	28.0	150	5
4075 0280	28	4075 1280	28	18	42	38.0	28.0	165	5
4075 0290	29	4075 1290	29	18	43	38.0	28.0	180	5
4075 0300	30	4075 1300	30	20	44	40.0	28.0	200	5
4075 0320	32	4075 1320	32	20	44	42.0	28.0	210	5
4075 0340	34	4075 1340	34	22	44	44.0	32.0	260	5
4075 0360	36	4075 1360	36	22	46	48.0	34.0	260	5

4075 Sockets (AF)



- For hexagon head screws
- For hand operation
- Square drive acc. to DIN 3120 - C 12.5 / ISO 1174
- With double six point profile
- With non-slip cross knurling

- Standards: DIN 3124 / ISO 2725-1
- Material: Chrome Vanadium
- Surface: Super-Chrom

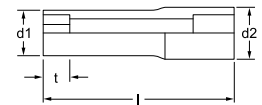
Art. Code	* AF	t mm	l mm	d1 mm	d2 mm	g	
4075 8001	3/8	6	38	15.0	22.0	50	10
4075 8002	7/16	6	38	16.3	22.0	50	10
4075 8003	15/32	8	38	18.8	22.0	60	10
4075 8004	1/2	8	38	18.8	22.0	60	10
4075 8005	9/16	10	38	20.4	22.0	60	10
4075 8006	19/32	10	38	21.0	22.0	60	10
4075 8007	5/8	10	38	22.0	20.5	60	10
4075 8008	21/32	10	38	24.0	22.0	70	10
4075 8009	11/16	10	38	24.0	22.0	70	10
4075 8010	3/4	12	38	26.0	22.0	90	10
4075 8011	25/32	12	38	28.0	22.0	90	10
4075 8012	13/16	12	38	28.0	26.0	90	10
4075 8013	7/8	14	38	30.0	26.0	120	10
4075 8014	15/16	16	38	32.0	26.0	130	5
4075 8015	31/32	16	38	34.0	26.0	150	5
4075 8016	1	16	42	34.0	26.0	150	5
4075 8017	1.1/16	18	42	36.0	28.0	170	5
4075 8018	1.1/8	20	43	38.0	28.0	170	5
4075 8019	1.3/16	20	43	40.0	28.0	200	5
4075 8020	1.1/4	20	43	42.0	28.0	240	5

4081 Sockets, long type



- For hexagon head screws
- For hand operation
- Square drive acc. to DIN 3120 - C 12.5 / ISO 1174
- With six point profile
- With non-slip cross knurling
- With MATADOR SmartDrive profile

- Standards: DIN 3124 / ISO 2725-1
- Material: Chrome Vanadium
- Surface: Super-Chrom



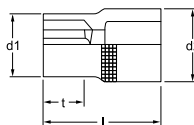
Art. Code	mm	Art. Code	mm	t mm	l mm	d1 mm	d2 mm	g	
4081 0100	10	4081 1100	10	18	77	15.0	22	85	5
4081 0110	11	4081 1110	11	18	77	16.3	22	85	5
4081 0120	12	4081 1120	12	18	77	17.6	22	90	5
4081 0130	13	4081 1130	13	18	77	18.8	22	105	5
4081 0140	14	4081 1140	14	31	77	20.4	22	125	5
4081 0150	15	4081 1150	15	31	77	21.0	22	130	5
4081 0170	17	4081 1170	17	31	77	24.0	22	145	5
4081 0190	19	4081 1190	19	31	77	26.0	22	165	5
4081 0210	21	4081 1210	21	31	77	28.0	26	205	5
4081 0220	22	4081 1220	22	31	77	30.0	26	200	5
4081 0240	24	4081 1240	24	31	77	32.0	26	250	5
4081 0270	27	4081 1270	27	31	77	36.0	28	270	5
4081 0300	30	4081 1300	30	31	77	40.0	28	330	5
4081 0320	32	4081 1320	32	31	77	42.0	28	410	5

4090 **Sockets (TORX®)**



- For outside TORX® screws
- For hand operation
- Square drive acc. to DIN 3120 - C 12.5 / ISO 1174
- With non-slip cross knurling
- MATADOR Super-Chrom for long-lasting rust protection

- Material: Chrome Vanadium
- Surface: Super-Chrom



Art. Code		t mm	l mm	d mm	d2 mm	g	
4090 0100	E10	22	38	13	22	60	10
4090 0120	E12	22	38	15	22	60	10
4090 0140	E14	22	38	16	22	70	10
4090 0160	E16	22	38	19	22	83	10
4090 0180	E18	22	38	20	22	87	10
4090 0200	E20	24	38	24	22	90	10
4090 0220	E22	26	38	26	22	92	10
4090 0240	E24	28	38	28	22	95	10

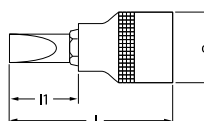


4076 **Screwdriver Bit Sockets (Slotted)**



- For slotted screws
- Extra hard tips made of special steel
- For hand operation
- With non-slip cross knurling
- Square drive acc. to DIN 3120 - C 12.5 / ISO 1174

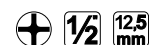
- Standard: DIN ISO 2380-1 Form B
- Material: Chrome Vanadium / tip made of special steel
- Surface: Super-Chrom / tip manganese phosphated



Art. Code	mm	mm	l mm	l1 mm	d mm	g	
4076 0080	1.2	8	62	24	24	53	10
4076 0100	1.6	10	62	24	24	87	10
4076 0120	2.0	12	62	24	24	98	10

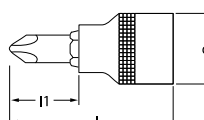


4077 **Screwdriver Bit Sockets (PH)**



- For cross-slotted screws PH
- Extra hard tips made of special steel
- For hand operation
- With non-slip cross knurling
- Square drive acc. to DIN 3120 - C 12.5 / ISO 1174

- Standard: DIN ISO 8764-1 PH
- Material: Chrome Vanadium / tip made of special steel
- Surface: Super-Chrom / tip manganese phosphated



Art. Code	PH	l mm	l1 mm	d mm	g	
4077 0001	1	62	24	24	89	10
4077 0002	2	62	24	24	89	10
4077 0003	3	62	24	24	89	10
4077 0004	4	62	24	24	89	10

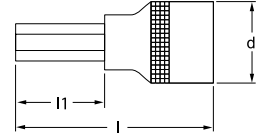


4078 Screwdriver Bit Sockets (Hex)



- For hexagon socket screws
- Extra hard tips made of special steel
- In standard length (62 mm) or extra long for deep screw connections (100 mm)
- For hand operation
- Square drive acc. to DIN 3120 - C 12.5 / ISO 1174
- With non-slip cross knurling
- MATADOR Super-Chrom for long-lasting rust protection

- Standard: DIN 7422
- Material: Chrome Vanadium / tip made of special steel
- Surface: Super-Chrom / tip manganese phosphated



Art. Code	mm	Art. Code	* AF	l mm	l1 mm	d mm	g	
4078 0040	4	4078 8001	3/16	62	24	24	88	10
4078 0050	5	--	--	62	24	24	89	10
4078 0060	6	4078 8002	7/32	62	24	24	89	10
4078 0070	7	4078 8003	1/4	62	24	24	90	10
4078 0080	8	4078 8004	5/16	62	24	24	91	10
4078 0100	10	4078 8005	3/8	62	24	24	95	10
4078 0120	12	4078 8006	7/16	62	24	24	107	10
4078 0140	14	4078 8007	1/2	62	24	24	121	10
4078 0170	17	4078 8008	9/16	62	24	26	162	10
4078 0190	19	--	--	62	24	26	170	10



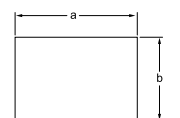
Art. Code	mm	l mm	l1 mm	d mm	g	
4078 1040	4	100	62	24	95	10
4078 1050	5	100	62	24	100	10
4078 1060	6	100	62	24	103	10
4078 1070	7	100	62	24	105	10
4078 1080	8	100	62	24	108	10
4078 1100	10	100	62	24	122	10
4078 1120	12	100	62	24	130	10
4078 1140	14	100	62	24	135	10
4078 1170	17	100	62	26	140	10
4078 1190	19	100	62	26	150	10

4078 Screwdriver Bit Sockets Set (Hex)



- For hexagon socket screws
- Extra hard tips made of special steel
- The most important screwdriver sockets in one set in standard length (62 mm)
- For hand operation
- Square drive acc. to DIN 3120 - C 12.5 / ISO 1174
- With non-slip cross knurling
- MATADOR Super-Chrom for long-lasting rust protection
- In solid metal case, durable quality, black powder coated

- Standard: DIN 7422
- Material: Chrome Vanadium / tip made of special steel
- Surface: Super-Chrom / tip manganese phosphated



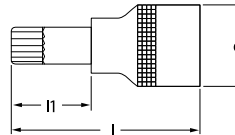
Art. Code	a mm	b mm	g	
4078 9090	170	105	1200	1

4078 5 - 6 - 7 - 8 - 10 - 12 - 14 - 17 - 19 x 62 mm

4079 Screwdriver Bit Sockets (XZN)

- For multi-point screws XZN
- Extra hard tips made of special steel
- In standard length (62 mm) or extra long for deep screw connections (100 mm)
- For hand operation
- Square drive acc. to DIN 3120 - C 12.5 / ISO 1174
- With non-slip cross knurling
- MATADOR Super-Chrom for long-lasting rust protection

- Standard: DIN 2324
- Material: Chrome Vanadium / tip made of special steel
- Surface: Super-Chrom / tip manganese phosphated



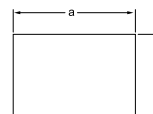
Art. Code		l mm	l1 mm	d mm	g	
4079 0050	M5	62	24	24	89	10
4079 0060	M6	62	24	24	89	10
4079 0080	M8	62	24	24	90	10
4079 0100	M10	62	24	24	91	10
4079 0120	M12	62	24	24	95	10
4079 0140	M14	62	24	24	107	10
4079 0160	M16	62	24	24	121	10

Art. Code		l mm	l1 mm	d mm	g	
4079 1050	M5	100	62	24	100	10
4079 1060	M6	100	62	24	103	10
4079 1080	M8	100	62	24	105	10
4079 1100	M10	100	62	24	108	10
4079 1120	M12	100	62	24	122	10
4079 1140	M14	100	62	24	130	10
4079 1160	M16	100	62	24	135	10

4079 Screwdriver Bit Sockets Set (XZN)

- For multi-point screws XZN
- Extra hard tips made of special steel
- The most important screwdriver sockets
- For hand operation
- Square drive acc. to DIN 3120 - C 12.5 / ISO 1174
- With non-slip cross knurling
- MATADOR Super-Chrom for long-lasting rust protection
- In solid metal case, durable quality, black powder coated

- Standard: DIN 2324
- Material: Chrome Vanadium / tip made of special steel
- Surface: Super-Chrom / tip manganese phosphated



Art. Code		a mm	b mm	g	
4079 9070		170	105	1200	1

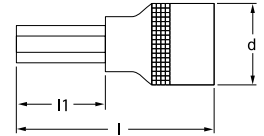
4079 M5 - M6 - M8 - M10 - M12 x 62 mm
M8 - M10 x 100 mm

4080 Screwdriver Bit Sockets (RIBE®)



- For multi-spline screws RIBE®
- Extra hard tips made of special steel
- For hand operation
- With ball locking device
- With non-slip cross knurling
- Square drive acc. to DIN 3120 - C 12.5 / ISO 1174

- Material: Chrome Vanadium / tip made of special steel
- Surface: Super-Chrom / tip manganese phosphated



Art. Code		l mm	l1 mm	d mm	g	
4080 0050	M5	62	24	24	88	10
4080 0060	M6	62	24	24	88	10
4080 0080	M8	62	24	24	89	10
4080 0100	M10	62	24	24	89	10
4080 0120	M12	62	24	24	90	10
4080 0140	M14	62	24	24	91	10
4080 0160	M16	62	24	24	95	10

4092 Screwdriver Bit Sockets (TORX®)



- For recessed TORX® screws
- Extra hard tips made of special steel
- In standard length (62 mm) or extra long for deep screw connections (100 mm)
- Square drive acc. to DIN 3120 - C 12.5 / ISO 1174

- Material: Chrome Vanadium / tip made of special steel
- Surface: Super-Chrom / tip manganese phosphated

Art. Code		l mm	l1 mm	d mm	g	
4092 0200	T20	62	24	24	59	10
4092 0250	T25	62	24	24	84	10
4092 0270	T27	62	24	24	86	10
4092 0300	T30	62	24	24	88	10
4092 0400	T40	62	24	24	89	10
4092 0450	T45	62	24	24	90	10
4092 0500	T50	62	24	24	91	10
4092 0550	T55	62	24	24	94	10
4092 0600	T60	62	24	26	104	10
4092 0700	T70	62	24	26	110	10
4092 0800	T80	62	24	26	120	10



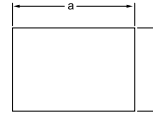
Art. Code		l mm	l1 mm	d mm	g	
4092 1200	T20	100	62	24	95	10
4092 1250	T25	100	62	24	100	10
4092 1270	T27	100	62	24	105	10
4092 1300	T30	100	62	24	112	10
4092 1400	T40	100	62	24	115	10
4092 1450	T45	100	62	24	115	10
4092 1500	T50	100	62	24	120	10
4092 1550	T55	100	62	24	123	10
4092 1600	T60	100	62	26	130	10
4092 1700	T70	100	62	26	135	10
4092 1800	T80	100	62	26	138	10

4092 Screwdriver Bit Sockets Set (TORX®)



- For recessed TORX® screws
- Extra hard tips made of special steel
- The most important screwdriver sockets in one set in standard length (62 mm)
- For hand operation
- Square drive acc. to DIN 3120 - C 12.5 / ISO 1174
- With non-slip cross knurling
- MATADOR Super-Chrom for long-lasting rust protection
- In solid metal case, durable quality, black powder coated

- Material: Chrome Vanadium / tip made of special steel
- Surface: Super-Chrom / tip manganese phosphated



Art. Code		↔	↑	⚖	📦
		a mm	b mm	g	
4092 9090		170	105	1100	1

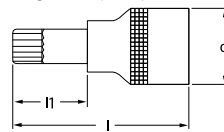
4092 T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60 x 62 mm

4093 Screwdriver Bit Sockets (TORX® with pilot)



- For recessed TORX® screws with pilot
- Extra hard tips made of special steel
- For hand operation
- Square drive acc. to DIN 3120 - C 12.5 / ISO 1174
- With non-slip cross knurling
- MATADOR Super-Chrom for long-lasting rust protection

- Material: Chrome Vanadium / tip made of special steel
- Surface: Super-Chrom / tip manganese phosphated



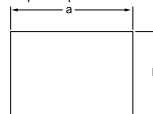
Art. Code		↔	↔	↑	⚖	📦
		l mm	l1 mm	d mm	g	
4093 0200	TR20	62	24	24	59	10
4093 0250	TR25	62	24	24	84	10
4093 0270	TR27	62	24	24	86	10
4093 0300	TR30	62	24	24	88	10
4093 0400	TR40	62	24	24	89	10
4093 0450	TR45	62	24	24	90	10
4093 0500	TR50	62	24	24	91	10
4093 0550	TR55	62	24	24	94	10
4093 0600	TR60	62	24	26	104	10
4093 0700	TR70	62	24	26	110	10
4093 0800	TR80	62	24	26	120	10

4093 Screwdriver Bit Sockets Set (TORX® with pilot)



- For recessed TORX® screws with pilot
- Extra hard tips made of special steel
- For hand operation
- Square drive acc. to DIN 3120 - C 12.5 / ISO 1174
- With non-slip cross knurling
- In solid metal case, durable quality, black powder coated

- Material: Chrome Vanadium / tip made of special steel
- Surface: Super-Chrom / tip manganese phosphated



Art. Code		↔	↑	⚖	📦
		a mm	b mm	g	
4093 9090		170	105	1100	1

4093 TR20 - TR25 - TR27 - TR30 - TR40 - TR45 - TR50 - TR55 - TR60 x 62 mm

In solid metal case.

MATADOR Socket Sets 12.5 mm (1/2").



MFS MATADOR
FOAM SYSTEM.

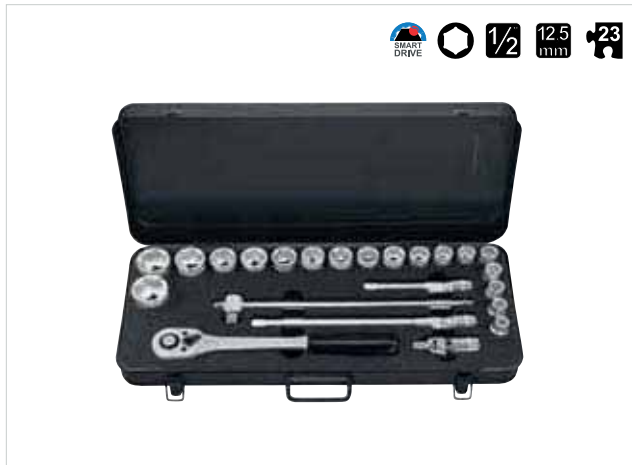
With black foam inlay,
resistant against oil and
lubricants.

METAL

In solid metal case, durable
quality, black powder coated.

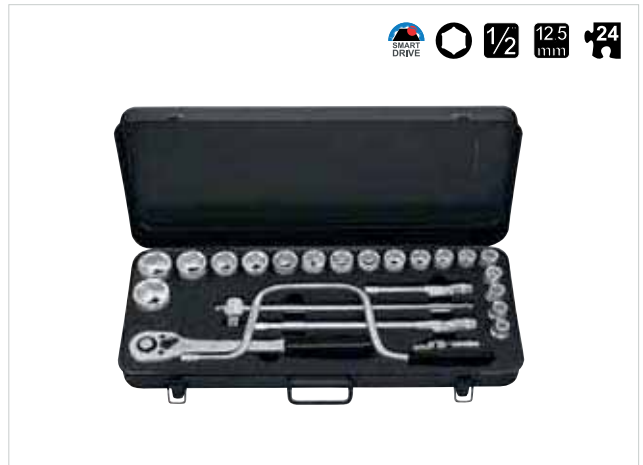


4114 Socket Sets 12.5 (1/2)



Art. Code			a mm	b mm	g	
4114 9230	MM		445	185	4400	1
4114 9231	MM		445	185	4400	1
4114 9232	AF		445	185	4400	1
	4061 4064 300 mm 4065 125, 250 mm 4068 4075 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 23 - 24 - 27 - 30 - 32 mm AF: 3/8 - 7/16 - 1/2 - 9/16 - 5/8 - 21/32 - 11/16 - 3/4 - 25/32 13/16 - 7/8 - 15/16 - 31/32 - 1 - 1.1/16 - 1.1/8 - 1.3/16 - 1.1/4"					

4115 Socket Sets 12.5 (1/2)



Art. Code			a mm	b mm	g	
4115 9240	MM		445	185	5300	1
4115 9241	MM		445	185	5300	1
4115 9242	AF		445	185	5300	1
	4061 4064 300 mm 4065 125, 250 mm 4068 4070 4075 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 23 - 24 - 27 - 30 - 32 mm AF: 3/8 - 7/16 - 1/2 - 9/16 - 5/8 - 21/32 - 11/16 - 3/4 - 25/32 13/16 - 7/8 - 15/16 - 31/32 - 1 - 1.1/16 - 1.1/8 - 1.3/16 - 1.1/4"					

In solid metal case.

MATADOR Socket Sets PRO 6.3 mm (1/4") - 12.5 mm (1/2").

METAL

In solid metal case, durable quality, black powder coated.



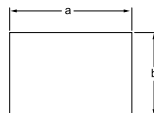
MFS MATADOR FOAM SYSTEM.

With black foam inlay, resistant against oil and lubricants.



4118 Socket Sets PRO 6.3 (1/4) / 12.5 (1/2)

- One of the most running sets
- All important ratchets, accessories and sockets in 6.3 (1/4) and 12.5 (1/2)
- Including screwdriver bit sockets for outside and recessed TORX® screws
- Also available in inch



Art. Code	Icon	MM	Icon	a mm	b mm	g	Icon
4118 9230	61	MM	6	445	185	5800	1
4118 9231	61	MM	12	445	185	5800	1
4118 9232	61	AF	12	445	185	5800	1

		2061
		2065 50 mm
		2068
		2073 150 mm
		2075 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm AF: 1/8 - 5/32 - 3/16 - 7/32 - 1/4 - 9/32 - 5/16 - 11/32 - 13/32 3/8 - 7/16 - 1/2 - 9/16"
		2076 4 - 5.5 - 7 x 32 mm
		2077 PH 1 - PH 2 x 32 mm
		2077 PZ 1 - PZ 2 x 32 mm
		2078 3 - 4 - 5 - 6 - 8 x 32 mm
		2090 E4 - E5 - E6 - E8
		2092 T10 - T15 - T20 - T25 - T27 - T30 x 32 mm
		4061
		4065 125, 250 mm
		4068
		4075 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 23 - 24 - 27 - 30 - 32 mm AF: 3/8 - 7/16 - 1/2 - 9/16 - 5/8 - 21/32 - 11/16 - 3/4 - 25/32 13/16 - 7/8 - 15/16 - 31/32 - 1 - 1.1/16 - 1.1/8 - 1.3/16 - 1.1/4"



In solid metal case.

MATADOR Socket Sets TORX® 12.5 mm (1/2").



METAL

In solid metal case, durable quality, black powder coated.



MFS MATADOR FOAM SYSTEM.

With black foam inlay, resistant against oil and lubricants.

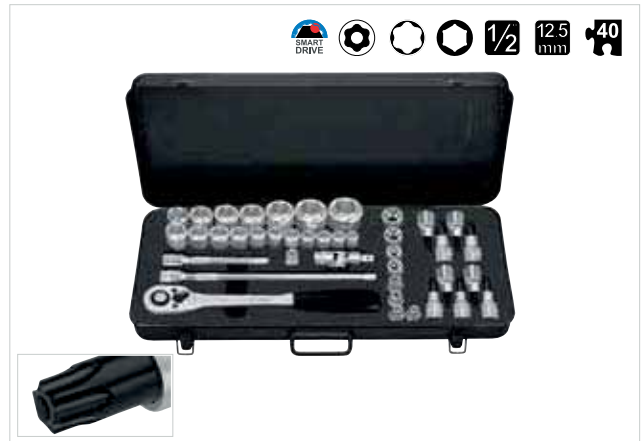


4135 Socket Sets 12.5 (1/2) (TORX®)



Art. Code	40	MM	6	a mm	b mm	g	
4135 9400	40	MM	6	445	185	4400	1
4135 9401	40	MM	12	445	185	4400	1
4135 9402	40	AF	12	445	185	4400	1
<ul style="list-style-type: none"> 4061 4065 125, 250 mm 4068 4075 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 23 - 24 - 27 - 30 - 32 mm AF: 3/8 - 7/16 - 1/2 - 9/16 - 5/8 - 21/32 - 11/16 - 3/4 - 25/32 13/16 - 7/8 - 15/16 - 31/32 - 1 - 1.1/16 - 1.1/8 - 1.5/16 - 1.1/4" 4084 12.5 (1/2) - 6.3 (1/4) Bit 4090 E10 - E12 - E14 - E16 - E18 - E20 - E22 - E24 4092 T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60 x 62 mm 							

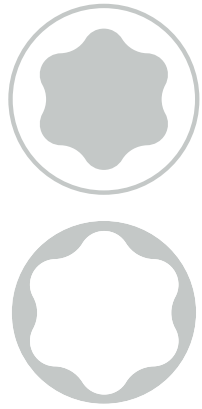
4135 Socket Sets 12.5 (1/2) (TORX®)



Art. Code	40	MM	6	a mm	b mm	g	
4135 9403	40	MM	6	445	185	4400	1
4135 9404	40	MM	12	445	185	4400	1
4135 9405	40	AF	12	445	185	4400	1
<ul style="list-style-type: none"> 4061 4065 125, 250 mm 4068 4075 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 23 - 24 - 27 - 30 - 32 mm AF: 3/8 - 7/16 - 1/2 - 9/16 - 5/8 - 21/32 - 11/16 - 3/4 - 25/32 13/16 - 7/8 - 15/16 - 31/32 - 1 - 1.1/16 - 1.1/8 - 1.5/16 - 1.1/4" 4084 12.5 (1/2) - 6.3 (1/4) Bit 4090 E10 - E12 - E14 - E16 - E18 - E20 - E22 - E24 4093 TR20 - TR25 - TR27 - TR30 - TR40 - TR45 - TR50 - TR55 TR60 x 62 mm 							

In solid metal case.

MATADOR practical add-ons.



METAL

In solid metal case, durable quality, black powder coated.



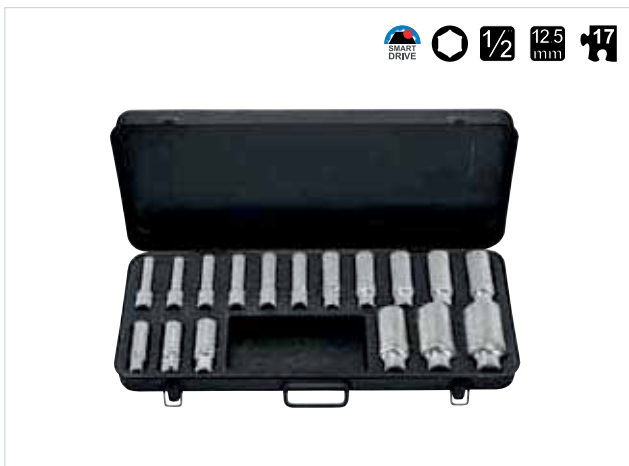
MFS MATADOR FOAM SYSTEM.

With black foam inlay, resistant against oil and lubricants.



- T8 - T60
- E4 - E24

4181 Socket Sets 12.5 (1/2), long type



Art. Code	Icon	MM	Icon	a mm	b mm	g	Icon
4181 9170		MM		445	185	3800	1
4181 9171		MM		445	185	3800	1
<p> 4081 10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 - 21 - 22 - 24 - 27 30 - 32 x 80 mm</p> <p> 4081 16 - 18 - 20.8 mm</p>							

4192 Screwdriver Sockets Set (TORX®)



Art. Code	Icon	a mm	b mm	g	Icon
4192 9310		315	115	3400	1
<p> 2090 E4 - E5 - E6 - E7 - E8 - E10 - E11</p> <p> 2092 T8 - T10 - T15 - T20 - T25 - T27 - T30 - T40 x 32 mm</p> <p> 4090 E12 - E14 - E16 - E18 - E20 - E22 - E24</p> <p> 4092 T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60 x 62 mm</p>					

The new tool boxes from MATADOR.

Everything you need in 6.3 mm (1/4") and 12.5 mm (1/2").



MFS MATADOR
FOAM SYSTEM.

With black foam inlay,
resistant against oil and
lubricants.



→ Elegant design in black colour with perfect functionality



→ Non-slip and stackable pattern



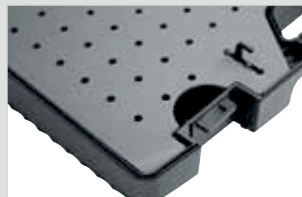
→ Ergonomic and rubberized handle for secure and comfortable handling



→ With specially raised feet and a straight hinge to ensure high stability



→ With punched divider for perfect using of the case-halfshells



→ Sandwich plate that clicks into place and secures the tool assembly

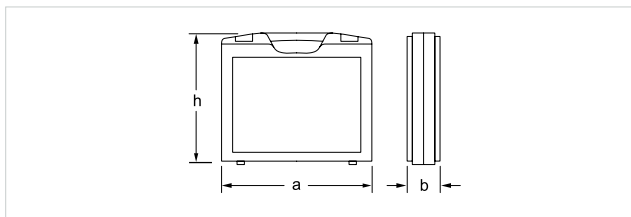


→ Easy-to-open dividers



→ Shapely, robust locks with integrated feet for secure transport

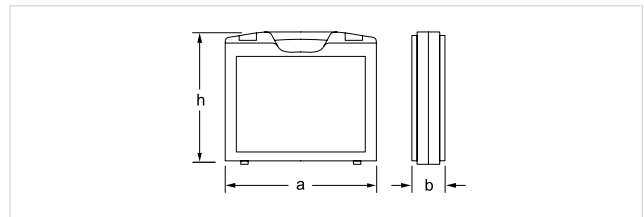
4145 Sockets Set Allround



Art. Code	Icon	Size	a mm	h mm	b mm	g	Volume
4145 9120	81 MM 6	357	305	80	6800	1	
4145 9121	81 MM 12	357	305	80	6800	1	
4145 9122	81 AF 12	357	305	80	6800	1	

<ul style="list-style-type: none"> 2061 2064 2065 50, 100 mm 2068 2073 150 mm 2075 4- 4.5- 5- 5.5- 6- 7- 8- 9- 10- 11- 12- 13- 14 mm AF: 1/8- 5/32- 3/16- 7/32- 1/4- 9/32- 5/16- 11/32- 13/32- 3/8- 7/16- 1/2- 9/16" 2076 4- 5.5- 7 x 32 mm 2077 PH 1 - PH 2 - PH 3 x 32 mm 2078 3- 4- 5- 6- 8 x 32 mm 2090 E4- E5- E6- E7- E8- E10- E11 2092 T8- T10- T15- T20- T25- T27- T30- T40 x 32 mm 4061 4065 125, 250 mm 4068 4075 10- 11- 12- 13- 14- 15- 16- 17- 18- 19- 20- 21- 22 mm AF: 3/8- 7/16- 15/32- 1/2- 9/16- 19/32- 5/8- 21/32- 11/16- 3/4- 25/32- 13/16- 7/8- 1" 0440 1.5- 2- 2.5- 3- 4- 5- 6- 8- 10 mm 0500 165 mm 0591 205 mm / 8" (0- 24 mm) 0635 0,5 x 3,0 mm 0672 PZ 1 x PZ 2 - PH 1 x PH 2 - PH 3 x 1.2 x 6.5 0.8 x 4.0 x 1.0 x 5.5 mm 0705 300 g 0797 2 m 0827
--

4150 Sockets Set Automotive



Art. Code	Icon	Size	a mm	h mm	b mm	g	Volume
4150 9120	103 MM 6	357	305	80	7300	1	
4150 9121	103 MM 12	357	305	80	7300	1	
4150 9122	103 AF 12	357	305	80	7300	1	

<ul style="list-style-type: none"> 2061 2064 2065 50, 100 mm 2068 2073 150 mm 2075 4- 4.5- 5- 5.5- 6- 7- 8- 9- 10- 11- 12- 13- 14 mm AF: 1/8- 5/32- 3/16- 7/32- 1/4- 9/32- 5/16- 11/32- 13/32- 3/8- 7/16- 1/2- 9/16" 2076 4- 5.5- 7 x 32 mm 2077 PH 1 - PH 2 - PH 3 x 32 mm 2078 3- 4- 5- 6- 8 x 32 mm 2090 E4- E5- E6- E7- E8- E10- E11 2092 T8- T10- T15- T20- T25- T27- T30- T40 x 32 mm 3081 14- 16- 18- 20.8 mm 4061 4065 125, 250 mm 4068 4075 10- 11- 12- 13- 14- 15- 16- 17- 18- 19- 20- 21- 22 23- 24- 27- 30- 32 mm AF: 3/8- 7/16- 15/32- 1/2- 9/16- 19/32- 5/8- 21/32- 11/16- 3/4- 25/32- 13/16- 7/8- 1- 1,1/16- 1,1/8- 1,3/16- 1,1/4" 4078 4- 5- 6- 7- 8- 10- 12- 14 x 62 mm 6- 7- 8 x 100 mm 4083 12,5 (1/2)- 10 (3/8) 4090 E10- E12- E14- E16- E18- E20- E22- E24 4092 T20- T25- T27- T30- T40- T45- T50- T55- T60 x 62 mm T30- T40- T45 x 100 mm



For heavy maintenance in industry and workshop.

Reversible Ratchet with 20 mm (3/4") drive. 1 600 N·m torque and 72 tooth mechanism.

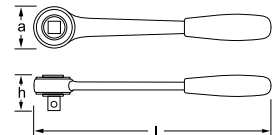


5060 Reversible Ratchet (72 T)



- With non-slip metal disc change
- Fine-toothed with 72 teeth
- For hand-operated sockets and accessories with locking pin

- Standards: DIN 3122 / ISO 3315
- Material: Chrome Vanadium
- Surface: Matt chrome finish



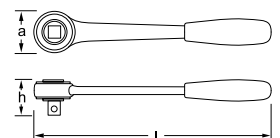
Art. Code	mm	"	l mm	a mm	h mm	g	
5060 0001	20	3/4	510	65	60	2050	5
5060 0010	Repair Kit					450	1

5062 Push-Through Ratchet



- Classical Push-Through ratchet
- Robust toothing with 36 teeth
- For hand-operated sockets and adapters
- Square as per DIN 3120 - C 20 / ISO 1174
- Square coupler as per DIN 3120 - A 20

- Standards: DIN 3123 / ISO 3316
- Material: Chrome Vanadium
- Surface: Matt chrome finish

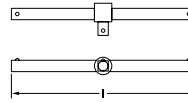


Art. Code	mm	"	l mm	a mm	h mm	g	
5062 0001	20	3/4	510	65	60	1850	5
5062 0002	20	3/4	52	19	19	140	1
5062 0010	Repair kit					450	1

5064 Sliding T-Handle

- Can be used as T- or L-Handle, with sliding square drive
- For hand-operated sockets and adapters with locking pin
- Square acc. to DIN 3120 - B 20 / ISO 1174

- Standards: DIN 3122 / ISO 3315
- Material: Chrome Vanadium
- Surface: Super-Chrom



3/4 20 mm

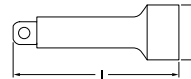


Art. Code	mm	"	l mm	g	
5064 0001	20	3/4	505	1420	5

5065 Extensions

- For hand-operated sockets and adapters with locking pin
- Square acc. to DIN 3120 - B 20 and D 20 / ISO 1174

- Standards: DIN 3123 / ISO 3316
- Material: Chrome Vanadium
- Surface: Super-Chrom



3/4 20 mm 3/4 20 mm

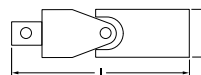


Art. Code	mm	"	mm	"	d mm	l mm	l"	g	
5065 0001	20	3/4	20	3/4	36	200	8	650	5
5065 0002	20	3/4	20	3/4	36	400	16	1150	5

5068 Universal Joint

- For hand-operated sockets and adapters with locking pin
- Square acc. to DIN 3120 - B 20 and D 20 / ISO 1174

- Standards: DIN 3123 / ISO 3316
- Material: Chrome Vanadium
- Surface: Super-Chrom



3/4 20 mm 3/4 20 mm

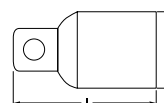


Art. Code	mm	"	mm	"	d mm	l mm	g	
5068 0001	20	3/4	20	3/4	40	105	550	5

5082 Reducer

- For hand-operated sockets and adapters with locking pin
- Square acc. to DIN 3120 - B 20 and D 20 / ISO 1174

- Standards: DIN 3123 / ISO 3316
- Material: Chrome Vanadium
- Surface: Super-Chrom



1/2 12.5 mm 3/4 20 mm



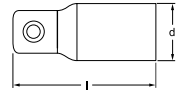
Art. Code	mm	"	mm	"	d mm	l mm	g	
5082 0001	12.5	1/2	20	3/4	40	55	210	5

5083 Converter



- For hand-operated sockets and adapters with locking pin
- Square acc. to DIN 3120 - B 20 and D 25 / ISO 1174

- Standards: DIN 3123 / ISO 3316
- Material: Chrome Vanadium
- Surface: Super-Chrom



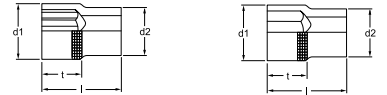
Art. Code	mm	"	mm	"	d mm	l mm	g	
5083 0001	25	1	20	3/4	38	63	370	5

5075 Sockets



- For hexagon head screws
- For hand operation with locking pin
- Square drive acc. to DIN 3120 - D 20 / ISO 1174
- With six point or double six point profile
- With MATADOR SmartDrive profile

- Standard: DIN 3124 / ISO 2725-1
- Material: Chrome Vanadium
- Surface: Super-Chrom



Art. Code	mm	Art. Code	mm	t mm	l mm	d1 mm	d2 mm	g	
5075 0190	19	5075 1190	19	19	50	30	36	210	5
5075 0220	22	5075 1220	22	19	50	33	36	220	5
5075 0240	24	5075 1240	24	20	50	35	36	220	5
5075 0270	27	5075 1270	27	24	52	38	36	230	5
5075 0300	30	5075 1300	30	26	54	42	38	290	5
5075 0320	32	5075 1320	32	27	56	44	38	300	5
5075 0330	33	--	--	27	56	44	40	350	5
5075 0340	34	--	--	27	56	47	42	370	5
5075 0360	36	5075 1360	36	28	58	50	42	430	5
5075 0380	38	5075 1380	38	28	60	52	45	490	5
5075 0410	41	5075 1410	41	31	64	56	45	540	5
5075 0460	46	5075 1460	46	33	68	62	48	630	5
5075 0500	50	5075 1500	50	35	72	68	48	840	5
5075 0550	55	5075 1550	55	35	76	74	48	870	5
5075 0600	60	5075 1600	60	35	78	80	48	950	5



Art. Code	"AF	t mm	l mm	d1 mm	d2 mm	g	
5075 8001	7/8	14.0	50	32.2	36	200	5
5075 8002	15/16	16.5	51	34.2	36	200	5
5075 8003	1	16.5	52	37.0	36	250	5
5075 8004	1.1/16	22.0	52	38.0	36	260	5
5075 8005	1.3/16	24.0	54	42.0	36	280	5
5075 8006	1.1/4	24.0	56	44.0	36	320	5
5075 8007	1.3/8	26.0	58	48.0	38	350	5
5075 8008	1.7/16	28.0	58	50.0	38	420	5
5075 8009	1.1/2	28.0	60	52.0	38	460	5
5075 8010	1.5/8	30.0	64	56.0	40	490	5
5075 8011	1.13/16	32.0	66	62.0	42	650	5
5075 8012	1.7/8	34.0	68	64.0	42	670	5
5075 8013	2	34.0	70	68.0	42	700	5
5075 8014	2.1/16	36.0	72	70.0	45	750	5
5075 8015	2.1/4	40.0	76	76.0	45	820	5

In solid metal case.

MATADOR Socket Sets in 20 mm (3/4"). For trucks and heavy industry.



MFS MATADOR
FOAM SYSTEM.
With black foam inlay,
resistant against oil and
lubricants.

METAL

In solid metal case, durable
quality, black powder coated.



5142 Socket Sets 20 (3/4)

5143 Socket Sets 20 (3/4)



Art. Code				a mm	b mm	g		
5142 9140	14	MM	6	5060	575	220	12 700	1
5142 9141	14	MM	12	5060	575	220	12 700	1
5142 9142	14	AF	12	5060	575	220	12 700	1
5142 9143	14	MM	6	5062	575	220	12 700	1
5142 9144	14	MM	12	5060	575	220	12 700	1
5142 9145	14	AF	12	5062	575	220	12 700	1
<ul style="list-style-type: none"> 5064 500 mm 5065 210, 420 mm 5075 22 - 24 - 27 - 30 - 32 - 36 - 38 - 41 - 46 - 50 mm AF: 7/8 - 15/16 - 1 - 1.1/16 - 1.1/4 - 1.7/16 - 1.1/2 - 1.5/8 - 1.13/16 - 2" 								

Art. Code				a mm	b mm	g		
5143 9160	16	MM	6	5060	575	220	13 500	1
5143 9161	16	MM	12	5060	575	220	13 500	1
5143 9162	16	AF	12	5060	575	220	13 500	1
5143 9163	16	MM	6	5062	575	220	13 500	1
5143 9164	16	MM	12	5060	575	220	13 500	1
5143 9165	16	AF	12	5062	575	220	13 500	1
<ul style="list-style-type: none"> 5064 500 mm 5065 210, 420 mm 5075 22 - 24 - 27 - 30 - 32 - 36 - 38 - 41 - 46 - 50 - 55 - 60 mm AF: 7/8 - 15/16 - 1 - 1.1/16 - 1.1/4 - 1.7/16 - 1.1/2 - 1.5/8 - 1.13/16 - 2 - 2.1/16 - 2.1/4" 								

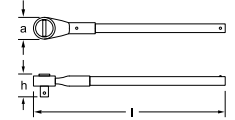
6060 Reversible Ratchet



- Fine-toothed with 60 teeth
- For hand-operated sockets and accessories with locking pin
- With push-fit bar handle

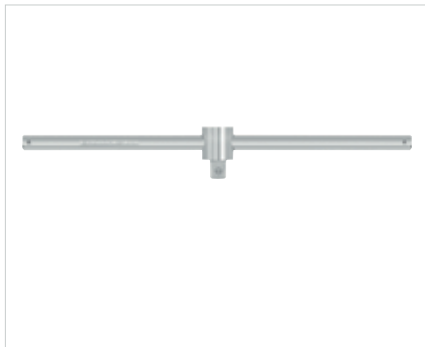


- Standards: DIN 3122 / ISO 3315
- Material: Chrome Vanadium
- Surface: Matt chrome finish



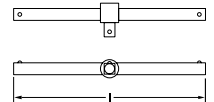
Art. Code	mm	"	l mm	a mm	h mm	g	
6060 0001	25	1	610	70	72	3370	5
6060 0010	Repair Kit					300	1

6064 Sliding T-Handle



- Can be used as T- or L-Handle, with sliding square drive
- For hand-operated sockets and adapters with locking pin
- Square acc. to DIN 3120 - B 25 / ISO 1174

- Standards: DIN 3122 / ISO 3315
- Material: Chrome Vanadium
- Surface: Super-Chrom



Art. Code	mm	"	l mm	g
6064 0001	25	1	550	3250

6065 Extensions



- For hand-operated sockets and adapters with locking pin
- Square acc. to DIN 3120 - B 25 and D 25 / ISO 1174

- Standards: DIN 3123 / ISO 3316
- Material: Chrome Vanadium
- Surface: Super-Chrom



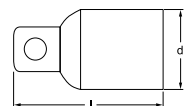
Art. Code	mm	"	mm	"	d mm	l mm	l "	g
6065 0001	25	1	25	1	48	200	3	1150
6065 0002	25	1	25	1	48	400	5	1900

6082 Reducer



- With locking pin
- For hand-operated sockets and adapters with locking pin
- Square acc. to DIN 3120 - B 25 and D 20 / ISO 1174

- Standards: DIN 3123 / ISO 3316
- Material: Chrome Vanadium
- Surface: Super-Chrom

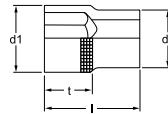


Art. Code	mm	"	mm	"	d mm	l mm	g
6082 0001	20	3/4	25	1	48	63	450

6075 Sockets (MM)

- For hexagon head screws
- For hand operation with locking pin
- Square drive acc. to DIN 3120 - D 25 / ISO 1174
- With double six point profile

- Standard: DIN 3124 / ISO 2725-1
- Material: Chrome Vanadium
- Surface: Super-Chrom



Art. Code	mm	t mm	l mm	d1 mm	d2 mm	g	
6075 0360	36	28	65	54	50	650	1
6075 0410	41	32	69	60	51	750	1
6075 0460	46	34	75	69	52	900	1
6075 0500	50	34	75	71	54	1000	1
6075 0550	55	40	82	77	57	1100	1
6075 0600	60	42	84	84	57	1500	1
6075 0650	65	44	87	88	55	1600	1
6075 0700	70	48	93	94	60	1750	1
6075 0750	75	52	97	102	60	2100	1
6075 0800	80	54	103	105	68	2300	1

6144 Socket Set 25 (1)

- For trucks and heavy industry
- All important tools in one set (up to 80 mm)
- In solid metal case



Art. Code		a mm	b mm	g	
6144 9140	14 MM 12	730	256	28500	1
	<ul style="list-style-type: none"> 6060 6064 640 mm 6065 200, 400 mm 6075 36 - 41 - 46 - 50 - 55 - 60 - 65 - 70 - 75 - 80 mm 				

6200 Construction ratchet

- For construction areas
- With 19 x 22 mm
- Forged shaft
- With centre punch

- Material: Chrome Vanadium
- Surface: Super-Chrom



Art. Code	mm	l mm	g	
6200 1922	19 x 22	310	500	1

Content

Torque Control.

Page Article group



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Torque Control.

Be a MATADOR.

Torque = Force x Lever arm.

$$\tau = F \cdot r$$

Trust, but verify.

Whenever it must be safe.

MATADOR torque technique. The basics of controlled tightening.



Controlled tightening is the standard of today.

In order to save raw materials, weight and costs, in modern assembly technology screws become more and more small and lightweight. At the same time the requirements increase in terms of durability of a screw connection.

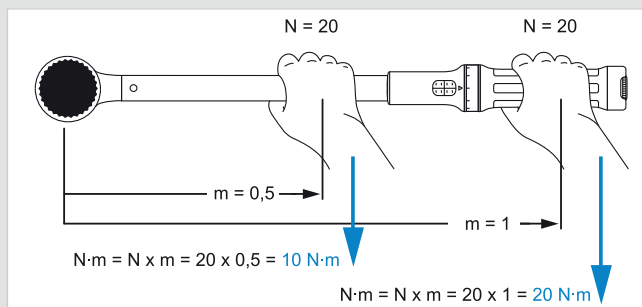
Nowadays for **nearly 100% of all industrial screw connections controlled tightening is required.**

Controlled means with a predefined torque value or torque angle, so that the remaining clamp force ensures the operating safety of the screw connection.

Screw connections are very complex physical processes influenced by numerous variables. The most important factors that determine the quality of a screw connection are **torque, clamp force, friction** and **joint hardness**. Only the knowledge and consideration of all four influencing factors will lead to really safe and reliable screw connections.

What is torque? Force times distance.

Torque is derived from the physical factors "force times distance" applied to a rotating movement: The longer the distance and/or the higher the force, the higher the rotary force and thus the torque.



The metric unit that is mainly used to measure torque is **newton meter** (abbr. N·m). According to this Force F (N) x Lever Arm L (m) = Torque M (N·m).

$$M = F \cdot r$$

Torque wrenches measure the force that is applied to a screw connection – nothing less, but unfortunately also nothing more.

It is not only length that matters.

Based on the lever rule it is essential that torque wrenches are **only operated using the handle**. An extension or shortening of the lever arm leads to changed torque values.

This applies for all torque wrenches, unless stated otherwise. E.g. the MATADOR 6174 series **torque wrenches with close gap** release allow tightening from any position **without any value shifts**.

In most cases classic torque wrenches are appropriate in order to achieve a controlled manual tightening of screw connections with an adequate accuracy.

Due to friction 90% of applied forces get lost.

But as soon as an optimal and safe screw connection is essential, manual torque wrenches are no longer appropriate. The applied torque is not equal to the reached **clamp force** and the measured values are thus too inaccurate.

The largest instability factor during tightening is **friction** that occurs at the thread and below the screw head.

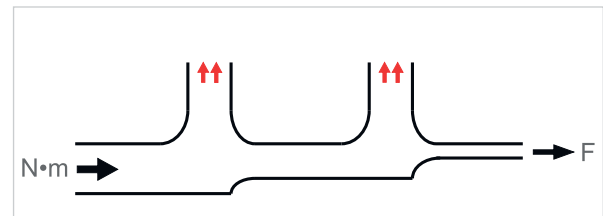
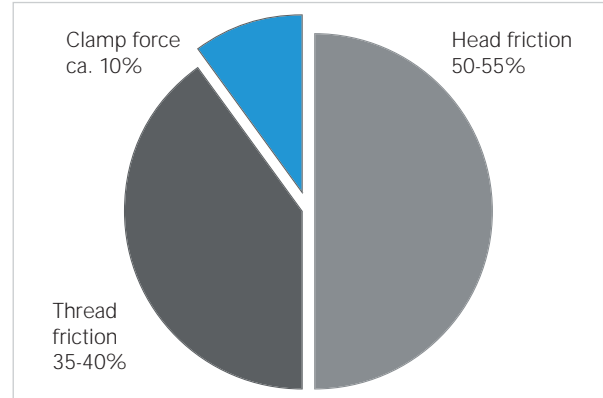
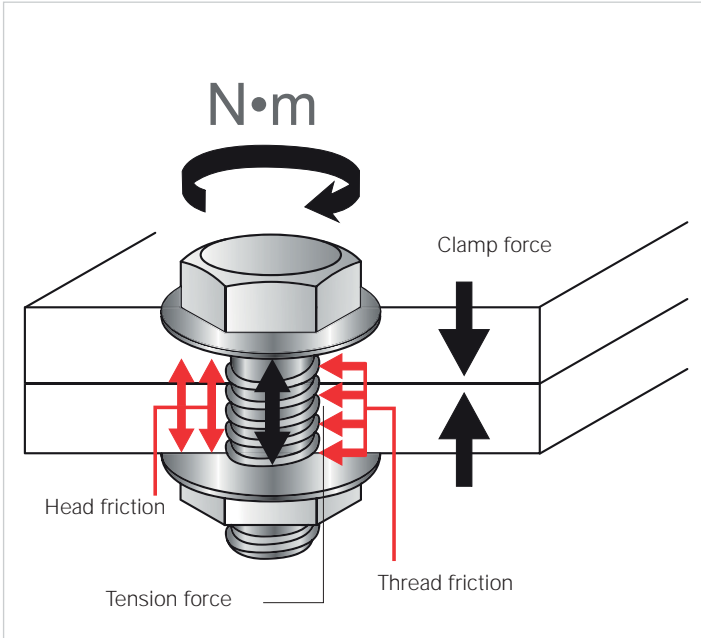
The force known as **clamp force**, that is supposed to be reached by means of a screw connection, generates a clamping pressure between the screwed workpieces.

The pressure leads to an increased friction between the workpieces and prevents them from coming loose unintentionally. However, these **friction forces work against the torque**, i.e. they prevent the applied torque from being converted into clamp force to its full extent.

Only ~10% of the applied torque is transformed into clamp force.

Optimal clamp force without friction losses. To ensure that you get out what you put in.

Torque angle instead of torque value. The better choice when it really counts.



Higher level of accuracy through torque angle.

In order to achieve a higher level of accuracy also during manual tightening, nowadays – especially in automotive industry – mainly **angle-controlled tightening processes** are applied.

After being positioned on a work-piece every screw can rotate to a certain extent until its end torque is reached.

This rotation is measured in angular degrees. In case the **torque angle** between positioning and end torque is low this is called a hard joint (e.g. for metal fittings). In case the angle is high this is called a soft joint (e.g. for wood fittings).

A general rule says that the softer the joint the higher the friction losses and the lower the reached clamp force.

The **MATADOR PRO PLUS torque angle wrenches** provide a remedy and help the user to reach the optimal clamp force by displaying the torque angle.

Minimizing friction to a minimum level.

During **angle-controlled tightening** the screw is first tightened to a predetermined trigger torque value – just like during torque-controlled tightening. From this trigger torque value onwards the screw is further rotated by a preset torque angle. The cut-out torque is monitored and documented via internal memory or PC interface.

When torque angle tightening is applied correctly the screw is specifically moved into its plastic deformation. In order to reduce the spreading of the clamp force as far as possible the screw is usually **tightened beyond its elastic limit.**

If during angle-controlled tightening the screw is only strained within the elastic range the friction is very high and the clamp force spreads accordingly - just like during torque-controlled tightening. Thus exact knowledge about the employed screw is vital.

Each screw is different.

Required torque and torque angle are mostly stated in the directives for the respective joint.

One has to consider that for angle-controlled tightening only special anti-fatigue bolts with sufficient grip length should be used. Screws that have been used for angle-controlled tightening should not be reused since their strength can be reduced.

Torque technique for professionals.

No matter how accurate a screw connection is to be tightened: MATADOR has the right torque tools for every case of application.

Starting from simple torque wrenches for semi-professional use up to electric torque/torque angle wrenches – all from a single source.

We will be pleased to assist you.

from 1...	x Factor	=	to...	from 1...	x Factor	=	to...
Metric measure units							
N-m	0.001	=	kN-m	kN-m	1000	=	N-m
N-m	0.000001	=	MN-m	MN-m	1000000	=	N-m
N-m	0.101972	=	kpm	kpm	9.80665	=	N-m
N-m	1000	=	dyn-cm	dyn-cm	0.00100	=	N-m
American and British measure units							
N-m	8.850746	=	lbf-in (pound force inch)	lbf-in	0.112985	=	N-m
N-m	0.737562	=	lbf-ft (pound force feet)	lbf-ft	1.355818	=	N-m
N-m	141.611930	=	ozf-in (ounce force inch)	ozf-in	0.007062	=	N-m
N-m	11.800994	=	ozf-ft (ounce force feet)	ozf-ft	0.084739	=	N-m
N-m	284.764320	=	pdl-in (poundal inch)	pdl-in	0.003512	=	N-m
N-m	23.730360	=	pdl-ft (poundal feet)	pdl-ft	0.042140	=	N-m

– Torque Conversion Factors

It depends on the case of application.
The right torque wrench.



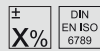
Dial type or click type?

Dial type torque wrenches indicate the value of the applied torque via a mechanical scale or a dial gauge.

As soon as the target torque is reached the user has to stop exerting additional force on the torque wrench. Dial type torque wrenches are quick and easy to operate and but they are not as accurate as click type torque wrenches.

At **click type torque wrenches** the target torque value is set via a scale at the handle. As soon as the set target torque value is reached the wrench indicates this by a palpable and audible signal.

In MATADOR torque wrenches the measuring elements made of spring steel are only loaded during tightening. Thus the torque wrench does not need to be reset and the wrench is immediately ready to continue operation.



With or without calibration certificate?

According to DIN EN ISO 6789 torque wrenches are **measuring instruments** that - in certified companies - are subject to a **constant monitoring**.

The calibration certificate documents the admissible tolerance a torque wrench reaches if it is loaded 5 000 times in each direction of use with the max. value. Depending on the wrench type **DIN EN ISO 6789** demands a max. tolerance of **±6% up to ±4%**.

After 12 months of use or 5000 load changes a **re-calibration** of the torque wrench is required.

MATADOR Service.

MATADOR's inexpensive **calibration service** includes the standard factory certificate according to DIN EN ISO 6789 and on demand also the certificate according to DKD guidelines. We maintain and calibrate MATADOR torque wrenches within 5 days after receipt according to DIN EN ISO 6789 including factory certificate and test badge.



Which drive?

Torque is applied either via the **square drive** which is used with standard sockets or via a **rectangular tool holder** (9 x 12 or 14 x 18 mm) for exchangeable insert tools.

When using insert tools it is important to consider that the length of the insert tool corresponds to the set depth gauge. Otherwise the displayed values and the setting values have to be adjusted due to the differing length.



With data storage?

Digital torque wrenches measure torque values by means of a strain gauge attached to the torsion rod. A transducer converts the obtained signal into the required power unit (e.g. Nm) and the value is shown on a digital display.

With this kind of torque wrench several different limits can be set and all measuring cycles can be stored in the internal memory.

Via interface the **internal memory** can be connected to a computer and the data can be read.

Digital torque wrenches are increasingly used for documentation of production data.



- Calibration certificate MATADOR



Reduction to the essential.

Overview.

Torque wrenches from 0.1 - 2800 N·m.

Dial or click type. Manually or electronically. From 6.3 (1/4") up to 25 (1") square drive.
With or without angle function. From 5% up to 1% tolerance according to DIN EN ISO 6789.
Always with calibration certificate. It is your choice.

MATADOR Torque Wrenches at a glance.									
Art. Code	Model	Art. Grp.	Short description	Type	Tolerance	Standard	Measuring range in N-m	mm	"
6169 0010		6169	Torque Wrenches DIAL, high alloy TORSION drive design, extremely simple operation, 0 - 2800 N-m		± 4%	DIN EN ISO 6789	0 - 3.5	6.3	1/4
6169 0020							0 - 9	6.3	1/4
6169 0030							0 - 18	10.0	3/8
6169 0040							0 - 70	10.0	3/8
6169 0050							0 - 240	12.5	1/2
6169 0060							0 - 350	12.5	1/2
6169 0070							0 - 480	20.0	3/4
6169 0080							0 - 800	20.0	3/4
6169 0090							0 - 1400	25.0	1
6169 0100							0 - 2800	25.0	1
6170 0010		6170	Torque Screwdriver for fine mechanics		± 5%	DIN EN ISO 6789	0.1 - 1.2	6.3	1/4
6170 0020							1.0 - 6.0	6.3	1/4
6172 0010		6172	Torque Wrenches ECO, for semi-professional use, 10 - 350 N-m, with calibration certificate		± 4%	DIN EN ISO 6789	10 - 110	10.0	3/8
6172 0020							28 - 210	12.5	1/2
6172 0030							50 - 350	12.5	1/2
6174 0010		6174	Torque Wrenches MULTITOUCH, with close gap release, 5 - 2000 N-m, allows tightening from every position		± 4%	DIN EN ISO 6789	5 - 33	10.0	3/8
6174 0030							25 - 150	12.5	1/2
6174 0040							50 - 250	12.5	1/2
6174 0050							70 - 350	12.5	1/2
6174 0060							140 - 800	20.0	3/4
6174 0070							200 - 1000	25.0	1
6174 0080							500 - 2000	25.0	1
6176 0001		6176	Torque Wrenches ALLROUND, with rotary square mushroom head ratchet, 1 - 1000 N-m, extensive features, with 2-component-handle		± 3%	DIN EN ISO 6789	1 - 25	6.3	1/4
6176 0010							5 - 50	10.0	3/8
6176 0020							10 - 100	12.5	1/2
6176 0030							20 - 200	12.5	1/2
6176 0040							60 - 320	12.5	1/2
6176 0050							100 - 550	20.0	3/4
6176 0060							200 - 750	20.0	3/4
6176 0070	300 - 1000	25.0	1						
6185 0001		6185	Torque Wrenches ALLROUND, for insert tools, 5 - 420 N-m		± 3%	DIN EN ISO 6789	5 - 50	9 x 12	--
6185 0002							10 - 100	9 x 12	--
6185 0003							20 - 200	14 x 18	--
6185 0004							80 - 420	14 x 18	--
6177 0005		6177	Torque Wrench XL, heavy duty, ideal for utility vehicles		± 4%	DIN EN ISO 6789	160 - 800	20.0	3/4
Art. Code	Model	Art. Grp.	Short description	Type	Tolerance	Standard	Measuring range in N-m	mm	mm (")
6178 0052		6178	Digital Torque Wrenches PRO with rectangular drive, including MATADOR insert ratchet		± 2%	DIN EN ISO 6789	5 - 50	9 x 12	6.3 (1/4)
6178 0102							10 - 100	9 x 12	12.5 (1/2)
6178 0202							20 - 200	14 x 18	12.5 (1/2)
6178 0352							35 - 350	14 x 18	12.5 (1/2)
6178 0051		6178	Digital Torque Wrenches PRO PRECISION with rectangular drive, including MATADOR insert ratchet		± 1%	DIN EN ISO 6789	5 - 50	9 x 12	6.3 (1/4)
6178 0101							10 - 100	9 x 12	12.5 (1/2)
6178 0201							20 - 200	14 x 18	12.5 (1/2)
6178 0351							35 - 350	14 x 18	12.5 (1/2)
6178 1052		6178	Digital Torque Wrenches PRO-PLUS with angle function for precise measurements, including MATADOR insert ratchet		± 2%	DIN EN ISO 6789	5 - 50	9 x 12	6.3 (1/4)
6178 1102							10 - 100	9 x 12	12.5 (1/2)
6178 1202							20 - 200	14 x 18	12.5 (1/2)
6178 1352							35 - 350	14 x 18	12.5 (1/2)
6178 1051		6178	Digital Torque Wrenches PRO-PLUS PRECISION with angle function for precise measurements, including MATADOR insert ratchet		± 1%	DIN EN ISO 6789	5 - 50	9 x 12	6.3 (1/4)
6178 1101							10 - 100	9 x 12	12.5 (1/2)
6178 1201							20 - 200	14 x 18	12.5 (1/2)
6178 1351							35 - 350	14 x 18	12.5 (1/2)

Traceable to national standards.

MATADOR service. Factory calibration and more in our own laboratory.



What are national standards?

The highest reference level for the calibration of torque tools is the national standard. This standard is the most precise measuring tool used to calibrate other measuring tools.

A **national standard** is the legally binding basis for a respective physical parameter. In accordance with the international definition this standard represents the lowest possible measurement inaccuracy based on the latest technology.

There is a **calibration hierarchy** of standards within which the measurement accuracy decreases from level to level. This structure makes it possible to compare test results worldwide and to guarantee traceability to a national standard.

In certified companies measuring equipment must be **traceable to national standards** and has to be re-calibrated regularly. This monitoring of measuring devices is a means of quality assurance and ensures uniform and reliable high-quality measuring results.

The MATADOR factory calibration.

All MATADOR torque wrenches are produced to the highest quality standards, adjusted, traceably calibrated and certified. Each tool comes with a **factory calibration certificate**.

If requested MATADOR torque wrenches are recalibrated **within 5-7 workdays** at a reasonable price. Also, the tools can be repaired in-house at any time.

DAkkS certificate on request.

For a 100% documentation MATADOR can also provide a calibration certificate according to **DAkkS standards** in cooperation with an accredited laboratory. Calibration is then **directly traceable** to the national standard and reaches the highest level of accuracy.

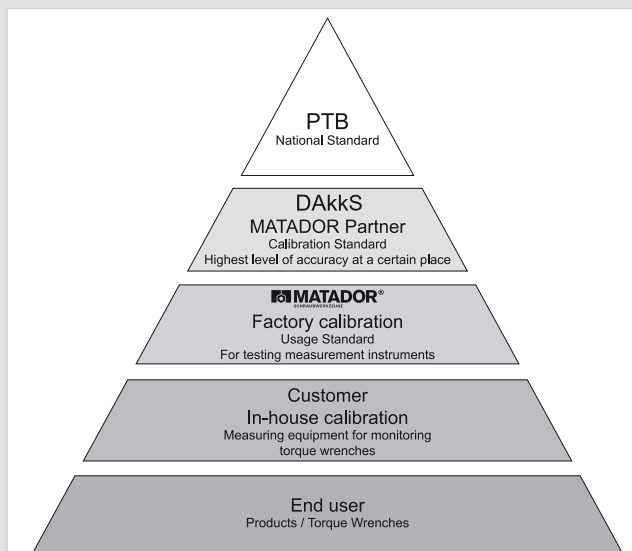
Please feel free to contact us.

What is made during recalibration?

Torque tools are **measuring instruments** and are subject to natural wear. We thus recommend to have torque wrenches recalibrated at regular intervals (generally **once a year**) or at least after 5000 load cycles to guarantee long-term precision.

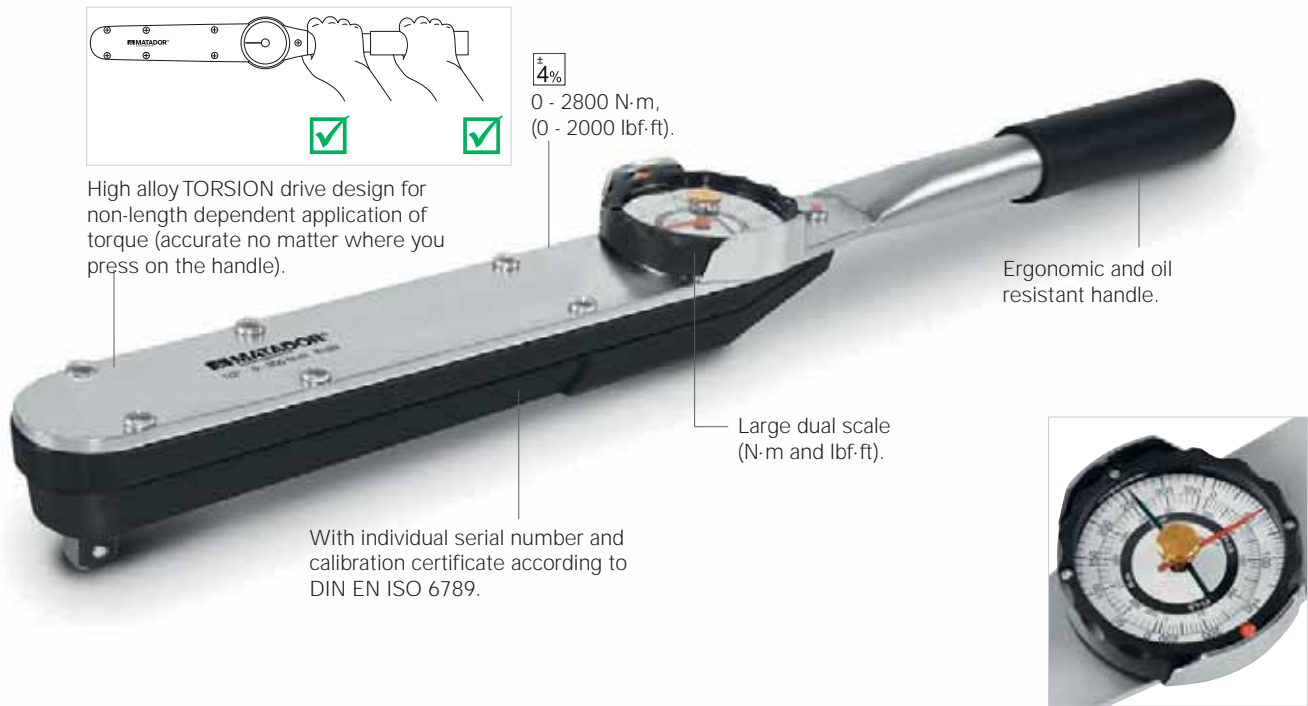
During recalibration in our in-house laboratory the torque wrenches are checked for their proper function and then - according to DIN EN ISO 6789 - tested at **20%, 60% and 100% of the maximum torque**.

At any test point **5 measurements** are made and documented. If the measured values are within the tolerance a factory calibration certificate is issued. If the measured values do not meet the requested tolerance the torque wrench is adjusted and the test procedure is repeated.



Tighten and read off the result. As simple as it could be.

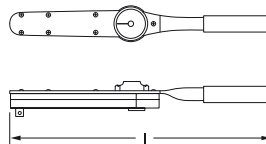
MATADOR dial type torque wrenches. Almost indestructible.



6169 Torque Wrenches DIAL

- Dial type torque wrench with large non-glare scale
- Accuracy $\pm 4\%$ tolerance of the set scale value
- For continuous heavy duty operation at construction sites, in workshops and industry
- Extremely simple operation and long durability thanks to single lever mechanism
- Secure bezel design (no more lost / broken bezels)
- Memory needle on every wrench
- All metal torque transfer components
- For controlled clockwise and anti-clockwise tightening

- Permanently readable scale
- With fixed square according to DIN 3120 - ISO 1174 with ball stop
- With individual serial number and calibration certificate according to DIN EN ISO 6789



Art. Code	mm	"	N-m	lbf-in	lbf-ft	N-m	lbf-in	lbf-ft	l mm	g	
6169 0010	6.3	1/4	0 - 3.5	0 - 30		0.1	1		270	725	1
6169 0020	6.3	1/4	0 - 9	0 - 75		0.2	1		270	725	1
6169 0030	10.0	3/8	0 - 18	0 - 150		0.5	2		270	725	1
6169 0040	10.0	3/8	0 - 70		0 - 50	2.0		1	270	725	1
6169 0050	12.5	1/2	0 - 240		0 - 175	5.0		5	560	1400	1
6169 0060	12.5	1/2	0 - 350		0 - 250	10.0		5	560	1400	1
6169 0070	20.0	3/4	0 - 480		0 - 350	10.0		10	675	3200	1
6169 0080	20.0	3/4	0 - 800		0 - 600	25.0		10	1180	4500	1
6169 0090	25.0	1	0 - 1400		0 - 1000	25.0		20	1970	9000	1
6169 0100	25.0	1	0 - 2800		0 - 2000	50.0		40	3200	21000	1

Controlled screw tightening in confined spaces.

MATADOR Torque Screwdriver. Little effort - big effect.



Safe adjustment of the set value.

According to DIN EN ISO 6789 with individual serial number and including calibration certificate.

Ergonomic handle.

Clearly readable scale in N-m.

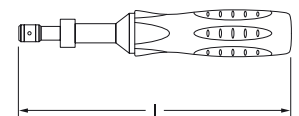
With bit holder in 6.3 mm (1/4"), together with square adapter also usable for hexagon sockets.

6170 Torque Screwdrivers



- For controlled tightening of screws from 0.1 - 6 N-m
- Manually adjustable to individual target values
- Easily readable micrometer scale
- Accuracy $\pm 5\%$ tolerance from set scale value
- Precise reading accuracy for a minimum of 5,000 tightening cycles
- For controlled tightening in clockwise and anti-clockwise direction
- Clearly palpable and audible torque release
- Ergonomic design of the handle for safe torque transmission

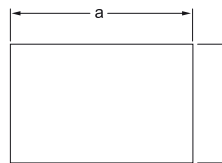
- With square drive for bits according to DIN 3126 - C 6.3, together with adapter also usable for sockets with square drive according to DIN 3124 C 6.3 (not included, art. code 2084 0002)
- With individual serial number for clear product identification
- Including calibration certificate according to DIN EN ISO 6789



Art. Code	mm	"	cN-m	N-m	cN-m	N-m	l mm	g	
6170 0010	6.3	1/4	10 - 120	0.1-1.2	1.0	--	180	207	1
6170 0020	6.3	1/4	--	1-6		0.1	248	475	1

6170 Torque Screwdrivers Sets

- 33 pcs. sets containing torque screwdriver, mini ratchet for confined spaces, adapter for sockets and 30 bits
- Bits made of S2 high quality steel with color guide system for quick identification
- In robust and well-arranged metal case with soft foam inlay with MATADOR Tool System

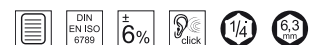


Art. Code	Icon	Value	a mm	b mm	g	Icon
6170 9330		0.1-1.2 N-m	315	115	1200	1
6170 9331		1-6 N-m	315	115	1450	1

		6170
		2062
		2084
		7026 3 - 4 - 5 - 6 mm
		7027 PH 1 - PH 2 - PH 2 - PH 3
		7027 PZ 1 - PZ 2 - PZ 2 - PZ 3
		7028 3 - 4 - 5 - 6 mm
		7032 T10 - T15 - T20 - T25 - T27 - T30 - T40
		7033 T10 - T15 - T20 - T25 - T27 - T30 - T40

6171 Torque Screwdrivers, pre-set

- Ideal for recurring fastening jobs with fixed torque values
- Without scale - with pre-set value
- Avoid costly repair of overwound threads, especially at lightweight parts (e.g. bicycle frames, aluminium profiles etc.)
- Clearly palpable and audible torque release
- ±6% reading accuracy for a minimum of 5000 tightening cycles (from 5 N-m)
- For controlled clockwise tightening
- Ergonomic design of the T-handle for safe torque transmission
- With hex drive for bits according to DIN 3126 - C 6.3
- Including adapter for sockets with square drive according to DIN 3124 C 6.3
- Up to 5 N-m with fast turning device
- With individual serial number for clear product identification and including calibration certificate according to DIN EN ISO 6789



Art. Code	mm	"	N-m	In-lb	kg-cm	±%	l mm	g
6171 0001	6.3	1/4	1	8.9	10.0	10	77.5	52
6171 0002	6.3	1/4	2	17.7	20.0	10	77.5	52
6171 0003	6.3	1/4	3	26.6	31.0	10	77.5	52
6171 0004	6.3	1/4	4	35.4	41.0	10	77.5	52
6171 0005	6.3	1/4	5	44.3	51.0	6	77.5	52
6171 0006	6.3	1/4	6	53.0	61.0	6	64.5	68
6171 0007	6.3	1/4	7	62.0	71.4	6	64.5	68
6171 0008	6.3	1/4	8	70.8	81.6	6	64.5	68
6171 0010	6.3	1/4	10	88.5	102.0	6	64.5	68
6171 0012	6.3	1/4	12	106.2	122.4	6	64.5	68

For semi-professional use.

MATADOR Torque Wrenches ECO. Save your budget.

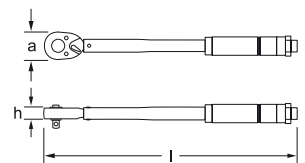


6172 Torque Wrenches ECO



- Click type torque wrenches for semi-professional use
- Accuracy $\pm 4\%$ tolerance from the set scale value
- Precise reading accuracy for a minimum of 5000 tightening cycles
- For controlled clockwise and anti-clockwise tightening (thus not for untightening)
- With knurled steel handle for easy adjustment of the desired torque value
- Durable double scale thanks to stamping in N·m and m·kgs with fine adjustment

- Clearly audible release
- With square drive according to DIN 3120 - ISO 1174 with ball stop and integrated lever reversible ratchet
- With individual serial number and calibration certificate according to DIN EN ISO 6789
- In attractive DIY packaging

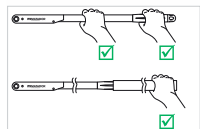


Art. Code	mm	"	N·m	m·kgs	N·m	m·kgs	a mm	h mm	l mm	g	
6172 0010	10.0	3/8	10 - 110	1 - 11	1	0.1	37.0	15.0	370	600	1
6172 0020	12.5	1/2	28 - 210	3 - 21	1	0.1	46.0	17.5	470	800	1
6172 0030	12.5	1/2	50 - 350	5 - 35	1	0.1	41.0	20.5	630	1000	1

Absolutely error-free operation thanks to single lever mechanism.

MATADOR Torque Wrenches MULTITOUCH. No offsets, no matter where you touch.

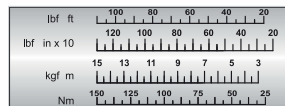
Tightening from every position due to uniaxial position of pivot and square drive.



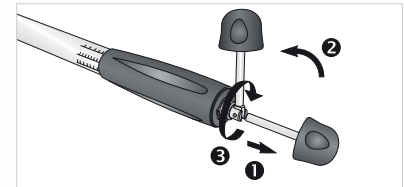
Ergonomic handle with protected adjustment mechanism.

$\pm 4\%$
5 - 2000 N-m,
(4 - 1500 lbf-ft).

Clear quad scale
(N-m, lbf-in, lbf-ft and kg-fm).



Quick adjustment with little effort thanks to innovative crank:



6174 Torque Wrenches MULTITOUCH

- Click type torque wrench
- Accuracy $\pm 4\%$ tolerance of the set scale value
- For continuous heavy duty operation at construction sites, in workshops and industry
- Especially simple operation and long durability thanks to single lever mechanism
- Precise reading accuracy for a minimum of 5000 tightening cycles
- For controlled clockwise and anti-clockwise tightening
- Permanently readable quad scale
- Clearly audible and palpable release
- With push-through square according to DIN 3120 - ISO 1174 with ball stop
- With individual serial number and calibration certificate according to DIN EN ISO 6789



Art. Code	mm	"	N-m	lbf-ft	lbf-in	kgf-m	N-m	l mm	g
6174 0010	10.0	3/8	5 - 33	4 - 24	40 - 300	0.5 - 3.4	0.5	405	690
6174 0030	12.5	1/2	25 - 150	20 - 110	200 - 1300	2.5 - 15	2	575	1700
6174 0040	12.5	1/2	50 - 250	40 - 180	450 - 2200	5 - 25	5	605	2300
6174 0050	12.5	1/2	70 - 350	50 - 260	500 - 3100	7 - 35	10	815	3000
6174 0060	20.0	3/4	140 - 800	120 - 580	1400 - 7000	14 - 80	20	815	6500
6174 0070	25.0	1	200 - 1000	150 - 750	1500 - 8500	20 - 100	25	1030	9700
6174 0080	25.0	1	500 - 2000	350 - 1500	4500 - 17500	50 - 200	50	1400	18000

- Spare squares:

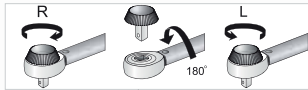
Art. Code	mm	"	g
6174 0910	10.0	3/8	50
6174 0930	12.5	1/2	70
6174 0960	20.0	3/4	90
6174 0980	25.0	1	120



Durable. Persistent. Versatile. Extremely loadable.

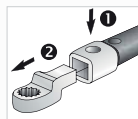
MATADOR Torque Wrenches ALLROUND. One for all.

32 With rotary square mushroom head and ratchet with 32 teeth for clockwise and anti-clockwise operation.



±3%
1 - 1 000 N·m,
1 - 730 lbf·ft.

Rectangular cavity for insert tools with quick-release function.



9 Clearly audible and palpable signal when the desired torque value is reached.



Precisely manufactured single components.

Perfectly matched single components are produced fully automatically on CNC machines in order to guaranty a constantly high quality.

Thus depending on their configuration the MATADOR 6176 series torque wrenches can be calibrated to a **±2% tolerance** from the set scale value and keep their reading accuracy for at least **10 000 tightening cycles**.

Please do not hesitate to contact us.



Solid mechanics for long idle times.

The **sliding roller bending mechanism** inside the torque wrench guaranties a long life and high level of accuracy - as long as the lever arm is used correctly.

The set torque values are reached when the torque wrench is operated using the handle. Shortening or extension of the lever arm leads to different torque values.



Double scale in N·m and lbf·ft.

Under a large-sized vision panel there is an **easily read-able scale** in N·m and lbf·ft division which allows an especially accurate adjustment of the desired torque value.

In order to guaranty an optimal and simplified reading a **strong magnifier** is integrated into the vision panel. The deep-set position of the vision panel serves as a protection against scratches and accidental damage.



Micro scale for exact adjustment.

With the help of the white **micro-meter scale ring** fine adjustments can be made. The vision panel is liberally sized and allows an optimal and simplified reading of the micro-meter value thanks to the **integrated magnifier**.

Depending on the model divisions from 1/ 0.5/ 0.25/ 0.1 or 0.025 N·m can be adjusted precisely.

Because without precise adjustment the lowest tolerance is of no use...

Full equipment as a standard.

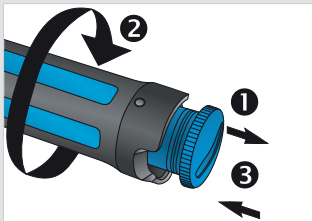
The Allrounder for every case of application. From fine mechanics to heavy industry.



Robust powder coated steel pipe body for long-lasting corrosion protection.

Handy and ergonomic 2-component-handle for safe and effort-less working.

2 scales for rough and fine adjustment with magnifier (N·m and lbf·ft).



Simple adjustment at the end of the handle.

By simply pulling and pushing the locking knob at the end of the handle using the ergonomic finger recesses the torque wrenches is still unlocked and locked.



With safety lock.

By turning the handle the desired torque value can be set. A black ring inside the locking knob indicates that the torque wrenches is still unlocked.



Tested according to DIN EN ISO 6789.

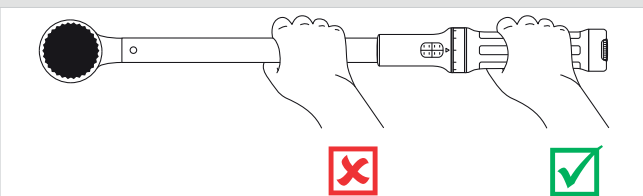
On all torque wrenches an **individual serial number** is imprinted irreversibly. This number serves as a distinct product identification. Each torque wrench is supplied with a **MATADOR factory calibration certificate** according to DIN EN ISO 6789.

With factory calibration certificate.

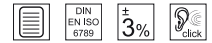


In case of service MATADOR torque wrenches are maintained, calibrated and adjusted according to DIN EN ISO 6789 in our **own calibration lab** within 5-7 working days, including factory calibration certificate and test badge.

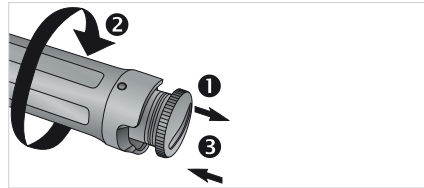
MATADOR. Trust, but verify.



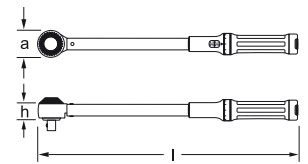
6176 Torque Wrenches ALLROUND



- Click type torque wrench with reversible ratchet head
- Accuracy $\pm 3\%$ tolerance from the set scale value
- Precise reading accuracy for a minimum of 5000 tightening cycles
- For controlled clockwise and anti-clockwise tightening
- Clearly palpable and audible torque release
- Double scale in N-m and lbf-ft
- Robust ratchet mechanism (32 teeth)
- 2 large vision panels with magnifiers for optimal readability of the set values
- Ergonomic and hand-friendly 2-component-handle with soft zone
- Safety lock at the end of the handle
- With square drive according to DIN 3120 - ISO 1174 with ball stop
- With individual serial number and test certificate according to DIN EN ISO 6789

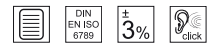


- Unlocking and locking by simply pushing the locking knob at the end of the handle

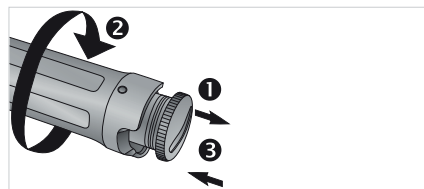


Art. Code	mm	"	N-m	lbf-ft	N-m	a mm	h mm	l mm	g
6176 0001	6,3	1/4	1 - 25	0,8 - 18	0,10	35	18	289	460
6176 0010	10,0	3/8	5 - 50	4 - 37	0,25	45	23	350	610
6176 0020	12,5	1/2	10 - 100	8 - 75	0,50	45	23	412	910
6176 0030	12,5	1/2	20 - 200	15 - 150	1,00	45	23	500	1300
6176 0040	12,5	1/2	60 - 320	45 - 236	1,00	45	23	585	1450
6176 0050	20,0	3/4	100 - 550	75 - 405	1,00	69	33	960	3800
6176 0060	20,0	3/4	200 - 750	150 - 550	10,00	69	33	1250	4800
6176 0070	25,0	1	300 - 1000	220 - 730	10,00	90	36	1500	5800

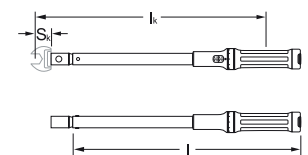
6185 Insert Torque Wrenches ALLROUND



- Click type torque wrench with rectangular tool holder for insert tools
- Accuracy $\pm 3\%$ tolerance from the set scale value
- Precise reading accuracy for a minimum of 5000 tightening cycles
- For controlled clockwise and anti-clockwise tightening
- Clearly palpable and audible torque release
- Double scale in N-m and lbf-ft
- 2 large vision panels with magnifiers for optimal readability of the set values
- Ergonomic and hand-friendly 2-component-handle with soft zone
- Safety lock at the end of the handle
- With quick-release function
- With individual serial number and calibration certificate according to DIN EN ISO 6789



- Unlocking and locking by simply pushing the locking knob at the end of the handle

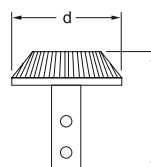


Art. Code	mm	N-m	lbf-ft	N-m	l _k mm	s _k mm	l mm	g
6185 0001	9 x 12	5 - 50	4 - 37	0,25	295	17,5	335	450
6185 0002	9 x 12	10 - 100	8 - 75	0,50	335	17,5	375	600
6185 0003	14 x 18	20 - 200	15 - 150	1,00	435	25,0	470	900
6185 0004	14 x 18	80 - 420	60 - 310	1,00	435	25,0	650	1600

6176 Rotary Squares

- Suitable for all torque wrenches with rotary square
- Prevents the square from being pulled out accidentally when changing sockets
- Can also be used as adapters
- With knurling for quick pre-tightening of screw fastenings
- With square drive according to DIN 3120 - ISO 1174 with ball stop

- Standards: DIN 3120 / ISO 1174
- Material: Chrome-Vanadium
- Surface: polished

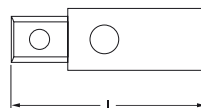


Art. Code	mm	"	mm	"	d mm	l mm	g	
6176 0201	10.0	3/8	6.3	1/4	31	33	21	1
6176 0202	10.0	3/8	10.0	3/8	31	33	21	1
6176 0203	12.5	1/2	10.0	3/8	39	52	65	1
6176 0204	12.5	1/2	12.5	1/2	39	52	65	1
6176 0205	20.0	3/4	20.0	3/4	63	73	180	1
6176 0206	25.0	1	20.0	3/4	63	78	380	1
6176 0207	25.0	1	25.0	1	63	78	380	1

6176 Square Couplers

- Universal use for all torque wrenches and push-through ratchets
- Can also be used as adapters
- With square drive according to DIN 3120 - ISO 1174 with ball stop

- Standards: DIN 3120 / ISO 1174
- Material: Chrome-Vanadium
- Surface: polished

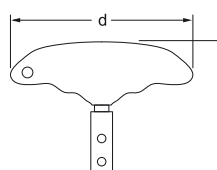


Art. Code	mm	"	mm	"	l mm	g	
6176 0220	12.5	1/2	10.0	3/8	43	49	1
6176 0221	12.5	1/2	12.5	1/2	43	49	1

6176 T-handle Box Wrenches

- Universal use for all torque wrenches with rotary head
- Allows quick and simple pre-tightening of screw fastenings
- Facilitates e.g. the insertion of wheel nuts without the use of a torque wrench
- Especially helpful for work in confined spaces thanks to the T-handle
- Ergonomically designed T-handle
- With square drive according to DIN 3120 - ISO 1174 with ball stop

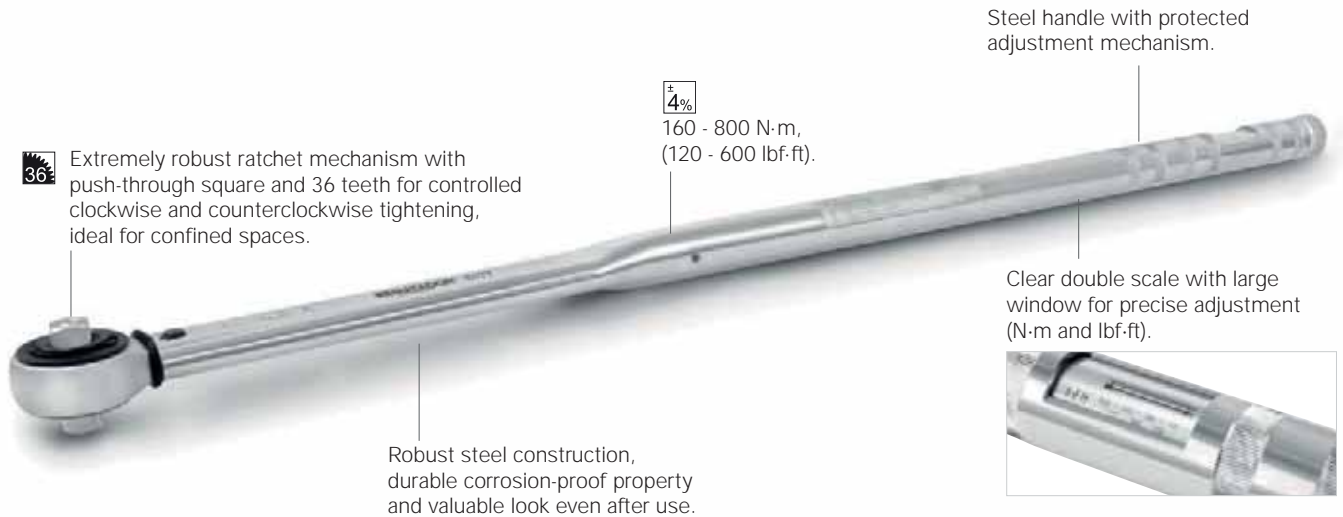
- Standards: DIN 3120 / ISO 1174
- Material: Chrome-Vanadium
- Surface: polished



Art. Code	mm	"	mm	"	d mm	l mm	g	
6176 0211	10.0	3/8	6.3	1/4	83	72	51	1
6176 0212	10.0	3/8	10.0	3/8	83	72	51	1
6176 0213	12.5	1/2	10.0	3/8	100	83	97	1
6176 0214	12.5	1/2	12.5	1/2	100	83	107	1

Classic Torque Wrench for the demanding workshop routine.

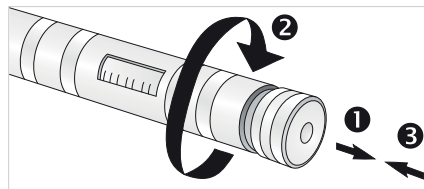
MATADOR Torque Wrench XL. For utility vehicles and heavy duty application.



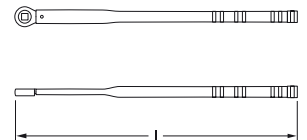
6177 Torque Wrench XL



- Click type torque wrench, ideal for use in utility vehicle workshops and industry
- Accuracy $\pm 4\%$ tolerance from the set scale value
- Precise reading accuracy for a minimum of 5000 tightening cycles
- For controlled clockwise and anti-clockwise tightening
- With double scale (N·m and lbf·ft)
- Clearly audible and palpable release
- With push-through square drive according to DIN 3120 - ISO 1174 with ball stop and integrated ratchet
- With individual serial number and calibration certificate according to DIN EN ISO 6789



- Simple adjustment by turning the handle



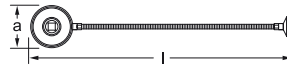
Art. Code	mm	"	N·m	lbf·ft	N·m	lbf·ft	l mm	g	
6177 0005	20.0	3/4	160 - 800	120 - 600	40	80	1010	4600	1

- Spare square:

Art. Code	mm	"	l mm	g	
6177 0910	20.0	3/4	43	75	1

6181 Mechanical Torque Angle Indicators with magnetic arm

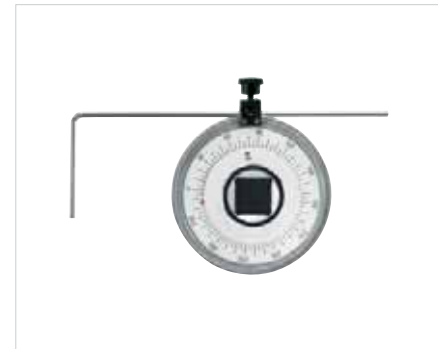
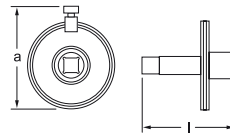
- For angle-controlled tightening
- For operation with a standard torque wrench
- With flexible, magnetic arm to fix the tool
- Scale 0-360°, scale division 2°
- With square drive according to DIN 3120 - ISO 1174 with ball stop (max. output 12.5 (1/2) approx. 390 N-m, 20 (3/4) = approx. 1330 N-m)



Art. Code	mm	"	mm	"	a mm		l mm	g	
6181 0001	12.5	1/2	12.5	1/2	70		440	170	1

6181 Mechanical Torque Angle Indicators

- For angle-controlled tightening
- For operation with a standard torque wrench
- Scale 0-360°, scale division 2°
- With square drive according to DIN 3120 - ISO



Art. Code	mm	"	mm	"	a mm		l mm	g	
6181 0002	20	3/4	20	3/4	95		100	100	1

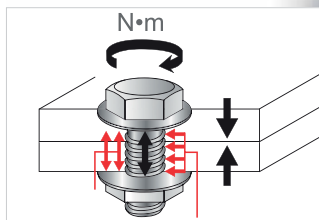
Tightening forces for normal and fine threads	Quality class	Pre-tensioning force (k-N) Normal threads					Tightening torque (N-m) Normal threads				
	acc. DIN 267	4.60	5.60	8.80	10.90	12.90	4.60	5.60	8.80	10.90	12.90
	M 4	1 280.00	1.71	4.30	6.30	7.40	1.02	1.37	3.30	4.80	5.60
	M 5	2 100.00	2.79	7.00	10.30	12.00	2.00	2.70	6.50	9.50	11.20
	M 6	2 960.00	3.94	9.90	14.50	17.00	3.50	4.60	11.30	16.50	19.30
	M 8	5 420.00	7.23	18.10	26.60	31.10	8.40	11.00	27.30	40.10	46.90
	M 10	8 640.00	11.50	28.80	42.20	49.40	17.00	22.00	54.00	79.00	93.00
	M 12	12 600.00	16.80	41.90	61.50	72.00	29.00	39.00	93.00	137.00	160.00
	M 14	17 300.00	23.10	57.50	84.40	98.80	46.00	62.00	148.00	218.00	255.00
	M 16	23 800.00	31.70	78.80	115.70	135.40	71.00	95.00	230.00	338.00	395.00
	M 18	28 900.00	38.60	99.00	141.00	165.00	97.00	130.00	329.00	469.00	549.00
	M 20	37 200.00	49.60	127.00	181.00	212.00	138.00	184.00	464.00	661.00	773.00
	M 22	46 500.00	62.00	158.00	225.00	264.00	180.00	250.00	634.00	904.00	1057.00
	M 24	53 600.00	71.40	183.00	260.00	305.00	235.00	315.00	798.00	1136.00	1329.00
	M 27	70 600.00	94.10	240.00	342.00	400.00	350.00	470.00	1176.00	1674.00	1959.00
	M 30	85 700.00	114.50	292.00	416.00	487.00	475.00	635.00	1597.00	2274.00	2662.00
M 33	107 000.00	142.50	363.00	517.00	605.00	645.00	865.00	2161.00	3078.00	3601.00	
M 36	125 500.00	167.50	427.00	608.00	711.00	1080.00	1440.00	2778.00	3957.00	4631.00	
M 39	151 000.00	201.00	512.00	729.00	853.00	1330.00	1780.00	3597.00	5123.00	5994.00	
	Quality class	Pre-tensioning force (k-N) Fine threads					Tightening torque (N-m) Fine threads				
	acc. DIN 267	4.60	5.60	8.80	10.90	12.90	4.60	5.60	8.80	10.90	12.90
	M 8 x 1	--	--	39.00	19.70	28.90	--	33.90	29.20	42.80	50.10
	M 10 x 1.25	--	--	61.00	30.80	45.20	--	52.90	57.00	83.00	98.00
	M 12 x 1.25	--	--	92.00	46.80	68.70	--	80.40	101.00	149.00	174.00
	M 12 x 1.5	--	--	88.00	44.30	65.10	--	76.20	97.00	143.00	167.00
	M 14 x 1.5	--	--	125.00	63.20	92.90	--	108.70	159.00	234.00	274.00
	M 16 x 1.5	--	--	167.00	85.50	125.50	--	146.90	244.00	359.00	420.00
	M 18 x 1.5	--	--	216.00	115.00	163.00	--	191.00	368.00	523.00	613.00
	M 20 x 1.5	--	--	272.00	144.00	206.00	--	241.00	511.00	728.00	852.00
	M 22 x 1.5	--	--	333.00	178.00	253.00	--	296.00	692.00	985.00	1153.00
	M 24 x 2	--	--	384.00	204.00	290.00	--	339.00	865.00	1232.00	1442.00
	M 27 x 2	--	--	496.00	264.00	375.00	--	439.00	262.00	1797.00	2103.00
	M 30 x 2	--	--	621.00	331.00	472.00	--	552.00	756.00	2502.00	2927.00

MATADOR torque and torque angle wrenches PRO and PRO PLUS.

Do not only trust your torque. Real angle control is better.



For measuring torque and torque angle.



$\pm 2\%$ $\pm 1\%$
5 - 350 N·m,
(3.7 - 258 lbf·ft).

Stores up to 900 results and up to 30 different configurations.

With 9 x 12 or 14 x 18 mm cavity including MATADOR insert ratchet.

Why measuring the torque angle?

In order to reach the optimal tension a nut and a bolt have to be tightened not only with the right torque but also with a specified **torque angle**.

The torque only indicates the power with which a bolt is tightened. However, it says nothing about the real **pre-tensioning force** between the bolted workpieces. If the pre-tensioning force is too low a bolted joint can become loose. If the pre-tensioning force is too high it can cause the bolt to break.

The optimal pre-tensioning force is thus only reached by measuring **torque and torque angle**.

MATADOR PRO and PRO PLUS.

Although the advantages of angle-controlled tightening clearly prevail not all users need the additional safety function of measuring the torque angle.

Thus MATADOR offers the PRO models as digital torque wrenches with **two basic configurations**:

The **PRO** version is the classic indicating, digital torque wrench, either calibrated to $\pm 2\%$ or to $\pm 1\%$ tolerance from the set scale value.

The **PRO PLUS** models are additionally equipped with the torque angle measuring function.

Measures the connection, not your power.

The measuring of the torque angle within the MATADOR PRO PLUS model is made by means of an **electronic gyroscope**.

Contrary to mechanical torque angle indicators there is no need for an additional holder for the fixed point. It is thus **very easy to apply the torque** angle-controlled tightening method correctly.

Both values, i.e. torque and torque angle, are shown clearly on the MATADOR PRO PLUS display which is equipped with backlight.



High reliability and long durability.

MATADOR digital torque wrenches are **very reliable**. They are made of precision parts that are optimally matched to each other.

Especially the display works very reliably and is designed for the demanding every day work in industry and workshops.

Nevertheless, digital torque wrenches are precision measuring instruments that should only be stored in their plastic case with soft foam inlay after work.

In case of service MATADOR torque wrenches are maintained, calibrated and adjusted according to DIN EN ISO 6789 within 5-7 working days after receipt in stock, including factory calibration certificate and test badge.



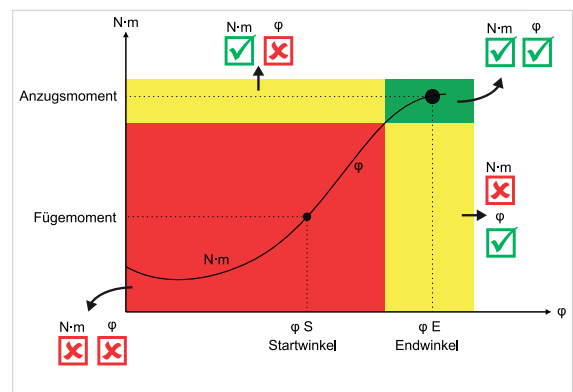
Ergonomical, rubber coated handle for easy grip.

Large LCD display with high contrast for easy reading from any position.

Acoustic and optical signal through 3 LEDs with traffic light function.



Only 4 function keys, all functions can be set directly in the wrench without external device (like PC), very easy set-up.



Documented control thanks to data storage.

A major reason for the use of digital torque wrenches is the possibility to store the measured tightening values.

With the help of an internal memory with up to **900 memory positions for 30 individual configurations** the MATADOR PRO and PRO PLUS wrenches can store numerous tightening cycles. The data can be transferred to a computer via **interface** which allows many statistical evaluations (with optional computer kit). Simply connect the wrench with your computer after work, transfer all stored data, save them, ready.



Displaying torque and torque angle.

In case of so-called „Category A fastenings“ (as per VDI guideline 2862) industry and automobile manufacturers specify the **torque** (N·m) **and** the **angle** with which a bolted joint has to be tightened (e.g. 40 N·m +90°).

Only if torque and angle reach the pre-adjusted value the screw connection is really safe. When the target values are reached the wrench clearly signalizes this by a green LED signal and an additional sound.

Depending on the set mode the values can be monitored continuously in the **track mode** or in **peak mode**.

Quick and easy setting without accessories.

All settings can be made quickly and easily directly at the torque wrench itself with the help of the 4 function keys.



By means of a well-arranged menu the wrench can be programmed without the help of a computer.

Exactly where it is needed: at your workplace.

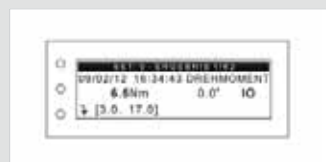


Optional measuring of breakaway torque.

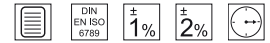
With the help of an optional software that can be integrated into the wrench, the MATADOR PRO PLUS is also suited for measuring the **breakaway torque**, **prevailing torque** and **end torque** of a tightening curve.

With this various analyses and documentations especially for the control of existing joints can be made.

We would be pleased to send you further information on request.



6178 Digital Torque Wrenches PRO/PRO PLUS



Configuration without angle function:

- Indicating, digital torque wrench
- For clockwise and anti-clockwise readings
- Torque precision in both directions ±2% (PRO) or ±1% (PRO PLUS)
- Precise reading accuracy for a minimum of 10 000 tightening cycles
- With 3 optical LEDs and acoustic signal with buzzer
- Very compact design with in-handle LCD-Display (132 x 32 Pixel)
- Protected display with backlight
- „Peak hold“ and „Track“ modes
- With 9 x 12 or 14 x 1 8 mm drive
- N-m, kg, lbf-in and lbf-ft.
- Individual programming of 30 different torque configurations and memory space for up to 900 tightening cycles
- Adjustable torque tolerance range
- Adjustable Auto-Off
- Password protection against accidental readjustment or unauthorized access
- Different selectable languages (G, E, I)
- Display of clock and battery status
- Only 4 function keys for easy access
- Easy access to all functions directly at the wrench, no computer configuration necessary
- Ergonomic, rubberized handle
- Data output RJ 45 with optional USB data transfer kit
- Delivered in solid plastic case
- Including insert ratchet
- Including 4 x AA-1,5V batteries for long power
- With individual serial number and calibration certificate according to DIN EN-ISO 6789 on which the accuracy is documented

Art. Code ±2%	Art. Code ±1%	mm	"	N-m	lbf-in	lbf-ft	mm	mm	g	
6178 0052	6178 0051	6.3	1/4	5 - 50	44 - 443	3.7 - 36.9	9 x 12	357	1150	1
6178 0102	6178 0101	12.5	1/2	10 - 100	89 - 886	7.4 - 73.8	9 x 12	418	1360	1
6178 0202	6178 0201	12.5	1/2	20 - 200	177 - 1770	14.8 - 147.5	14 x 18	512	1430	1
6178 0352	6178 0351	12.5	1/2	35 - 350	310 - 3098	25.8 - 258.1	14 x 18	610	1550	1

Configuration with angle function - additional features:

- Digital torque wrench with build-in angle function
- Simultaneous display of torque and angle
- Angle precision in both directions ±1%
- Individual programming of 30 different torque and angle configurations
- Adjustable tolerance range of torque and angle

Art. Code ±2% / 1%	Art. Code ±1% / 1%	mm	"	N-m	lbf-in	lbf-ft	mm	mm	g	
6178 1052	6178 1051	6.3	1/4	5 - 50	44 - 443	3.7 - 36.9	9 x 12	357	1150	1
6178 1102	6178 1101	12.5	1/2	10 - 100	89 - 886	7.4 - 73.8	9 x 12	418	1360	1
6178 1202	6178 1201	12.5	1/2	20 - 200	177 - 1770	14.8 - 147.5	14 x 18	512	1430	1
6178 1352	6178 1351	12.5	1/2	35 - 350	310 - 3098	25.8 - 258.1	14 x 18	610	1550	1

Optional:

- Integrated software for measuring of breakaway torque, prevailing torque and end torque of a tightening curve
- Not for installation by the user - wrench must be programmed by MATADOR)

Art. Code	
6178 9995	1

Optional:

- USB data transfer kit for computers

Art. Code	
6178 9996	1

Very simple and cost effective.

MATADOR Torque Testers. Turn on, test, ready.



For click type, dial and digital torque wrenches:
Model 6180 Plus.



With 27 mm male hexagon, supplied with 20 mm (3/4") or 25 mm (1") square drive socket.

6180 Torque Testers

- For easy testing and calibration of click type torque wrenches
- Simple operation, only one button to zero the display
- Large 4-digit LCD-Display
- With automatic switch-off
- Inner square according to DIN 3120 / ISO 1174 with ball stop
- Measurement in N·m
- Delivered in solid black plastic case with power cable
- With traceable calibration certificate for clockwise direction according to DIN EN ISO 6789

Model 6180 Plus for click type, dial and digital torque wrenches

- Additionally equipped with
- Display for three torque units: N·m, lbf·ft and lbf·in
- Three operation modes: track mode for continuous monitoring of torque signal, 1st peak mode or final peak mode
- Limit feature: the operator sets target torque and tolerance and instrument calculates whether the reading is within tolerance and indicates the result by illuminating one of three coloured LEDs)
- Delivered with RS-232 lead
- Software separately available



Art. Code	mm	"	mm	N·m	lbf·ft	a mm	h mm	l mm	g	
6180 0001	12.5	1/2		10 - 350	7.4 - 258	145.5	85.0	150.0	3200	1
6180 0002	20.0	3/4	27 mm	100 - 1000	74 - 737	145.5	85.0	175.0	4800	1
6180 0003	25.0	1	27 mm	200 - 2000	147 - 1475	145.5	85.0	175.0	5600	1

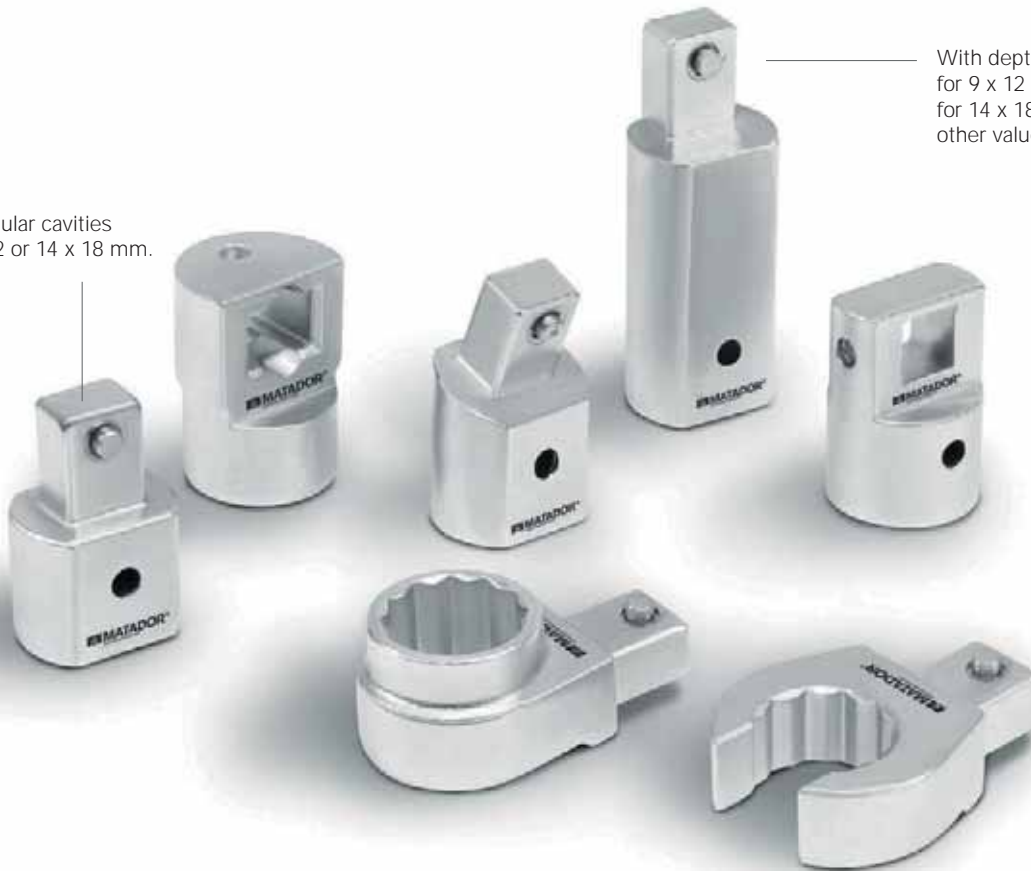
Model 6180 Plus:

Art. Code	mm	"	mm	N·m	lbf·ft	a mm	h mm	l mm	g	
6180 0011	12.5	1/2		10 - 350	7.4 - 258	145.5	85.0	150.0	3200	1
6180 0012	20.0	3/4	27 mm	100 - 1000	74 - 737	145.5	85.0	175.0	4800	1
6180 0013	25.0	1	27 mm	200 - 2000	147 - 1475	145.5	85.0	175.0	5600	1

Directly from certified manufacturer.

Insert tools for rectangular tool holders.

For rectangular cavities sized 9 x 12 or 14 x 18 mm.



With depth gauges (s_k) for 9 x 12 mm = 17.5 mm, for 14 x 18 mm = 25 mm, other values are marked with *).

Customized insert tools.

MATADOR is **first-level supplier** of insert tools for numerous leading automobile manufacturers. Also special, extra flat insert ratchets with lever are part of our range.



We would be pleased to submit an individual offer to you based on your special requirements - either as hot formed forging parts, as cast parts or cut on modern CNC machines from solid material.

Please do not hesitate to contact us.

When do you have to calculate?

The calibration of a torque wrench is based on a fixed fulcrum (usually at the same level as the square drive). If the measure of length changes the original lever is no longer valid and the set torque value (M_{xW}) has to be adjusted by a correction factor.

Example:

Correction of the set torque value:
Desired tightening torque $M_A = 180 \text{ N-m}$:

The correct length is the crucial factor.

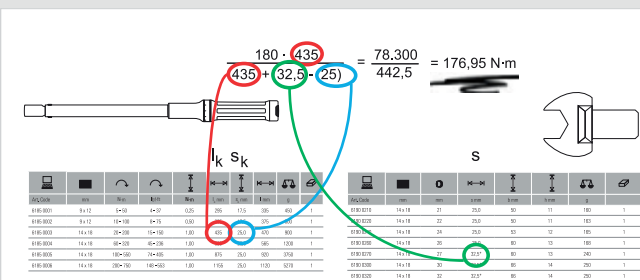
Especially when using insert tools the given depth gauge is to be considered. If the depth gauge of the torque wrench (s_k) is equal to the depth gauge of the insert tool (s) the indicated value corresponds to the value of the applied force.

Correction of the torque value.

Insert tools with different depth gauges (s) are marked with a * in the respective table.

In these cases and also when using adapters the desired tightening torque (M_A) has to be corrected by the linear factor with the help of the following formula:

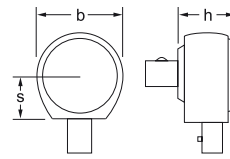
$$M_{xW} = \frac{M_A \times l_k}{l_k + (s - s_k)}$$



6186 Insert Reversible Ratchets

- With pin lock
- Fine-toothed
- Max. load of coupler 9 x 12:
6.3 (1/4) = 30 N·m, 10 (3/8) = 135 N·m,
12.5 (1/2) = 150 N·m
- Max. load of coupler 14 x 18:
12.5 (1/2) = 340 N·m, 20 (3/4) = 400 N·m

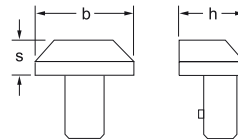
- Material: Chrome-Vanadium
- Surface: Matt chrome finish



Art. Code	mm	mm	"	s mm	b mm	h mm	g	
6186 0001	9 x 12	6.3	1/4	17.5	27	25	75	1
6186 0002	9 x 12	10.0	3/8	17.5	35	35	152	1
6186 0003	9 x 12	12.5	1/2	17.5	43	40	228	1
6186 0004	14 x 18	12.5	1/2	25.0	43	43	260	1
6186 0005	14 x 18	20.0	3/4	25.0	70	60	795	1

6187 Insert Weld-On Fittings

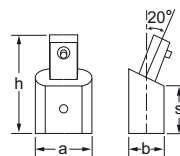
- With pin lock
- For welding special tools
- Welding surface 8 x 14 mm (9 x 12) and 11 x 25 mm (14 x 18)
- *) = please consider the depth gauge (s) for correct calculation of the torque value



Art. Code	mm	s mm	b mm	h mm	g	
6187 0001	9 x 12	8*	14	14.5	47	1
6187 0002	14 x 18	12*	25	21.5	100	1

6187 Insert Adapter

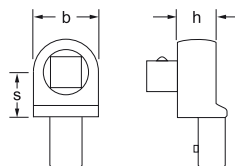
- Adapter for confined areas
- With 20° angle
- With pin lock
- *) = please consider the depth gauge (s) for correct calculation of the torque value



Art. Code	mm	mm	s mm	b mm	h mm	a mm	g	
6187 0004	9 x 12	9 x 12	20*	17	40	22	47	1

6188 Insert Square Heads

- Max. load of coupler 9 x 12:
6.3 (1/4) = 30 N·m, 10 (3/8) = 135 N·m,
12.5 (1/2) = 150 N·m
- Max. load of coupler 14 x 18:
12.5 (1/2) = 340 N·m, 20 (3/4) = 400 N·m

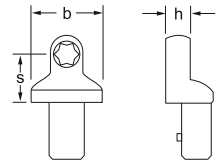


Art. Code	mm	mm	"	s mm	b mm	h mm	g	
6188 0001	9 x 12	6.3	1/4	17.5	20	14	70	1
6188 0002	9 x 12	10.0	3/8	17.5	20	14	76	1
6188 0003	9 x 12	12.5	1/2	17.5	20	14	80	1
6188 0004	14 x 18	12.5	1/2	25.0	27	18	210	1
6188 0005	14 x 18	20.0	3/4	25.0	40	25	400	1

6189 Insert Bit Holders



- For inserting bits
- With pin lock
- Material: Chrome-Vanadium
- Surface: Matt chrome plated

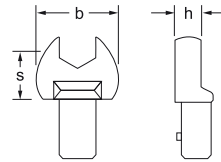


Art. Code	mm	mm	*	s mm	b mm	h mm		g	
6189 0001	9 x 12	6.3	1/4	17.5	14	10.0		47	1
6189 0002	9 x 12	8.0	5/16	17.5	16	12.5		47	1
6189 0003	14 x 18	8.0	5/16	25.0	16	12.5		115	1

6190 Open End Insert Tools



- With pin lock
- *) = please consider the depth gauge (s) for correct calculation of the torque value
- Material: Chrome-Vanadium
- Surface: Matt chrome plated

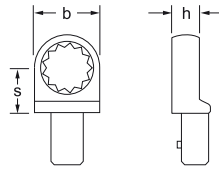


Art. Code	mm	mm		s mm	b mm	h mm		g	
6190 0070	9 x 12	7		17.5	22	5.0		37	1
6190 0080	9 x 12	8		17.5	22	5.0		38	1
6190 0090	9 x 12	9		17.5	26	5.5		37	1
6190 0100	9 x 12	10		17.5	26	5.5		42	1
6190 0110	9 x 12	11		17.5	26	5.5		40	1
6190 0120	9 x 12	12		17.5	30	7.0		41	1
6190 0130	9 x 12	13		17.5	30	7.0		46	1
6190 0140	9 x 12	14		20.0*	35	8.0		55	1
6190 0150	9 x 12	15		20.0*	35	8.0		55	1
6190 0160	9 x 12	16		20.0*	38	8.5		58	1
6190 0170	9 x 12	17		20.0*	38	8.5		58	1
6190 0180	9 x 12	18		20.0*	42	9.0		60	1
6190 0190	9 x 12	19		20.0*	42	9.0		64	1
6190 1130	14 x 18	13		25.0	30	7.0		118	1
6190 1140	14 x 18	14		25.0	35	8.0		120	1
6190 1150	14 x 18	15		25.0	35	8.0		116	1
6190 1160	14 x 18	16		25.0	38	9.0		128	1
6190 1170	14 x 18	17		25.0	38	9.0		138	1
6190 1180	14 x 18	18		25.0	42	10.0		136	1
6190 1190	14 x 18	19		25.0	42	10.0		140	1
6190 1210	14 x 18	21		25.0	50	11.0		160	1
6190 1220	14 x 18	22		25.0	50	11.0		163	1
6190 1240	14 x 18	24		25.0	53	12.0		165	1
6190 1260	14 x 18	26		25.0	60	13.0		168	1
6190 1270	14 x 18	27		32.5*	60	13.0		240	1
6190 1300	14 x 18	30		32.5*	66	14.0		250	1
6190 1320	14 x 18	32		32.5*	66	14.0		250	1
6190 1340	14 x 18	34		32.5*	66	14.0		253	1
6190 1360	14 x 18	36		32.5*	74	15.0		245	1
6190 1380	14 x 18	38		32.5*	74	15.0		230	1
6190 1410	14 x 18	41		40.0*	82	15.0		316	1

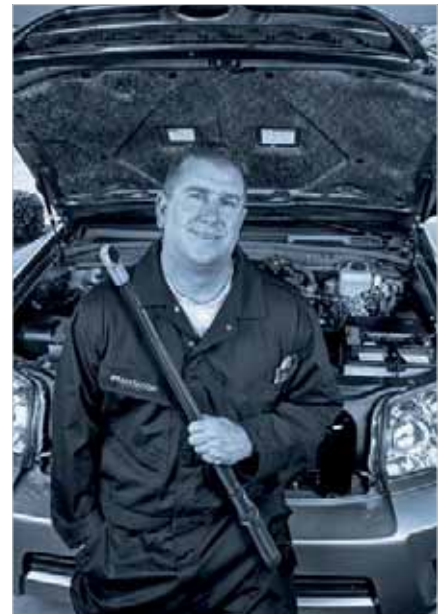


6191 Ring End Insert Tools

- With pin lock
- *) = please consider the depth gauge (s) for correct calculation of the torque value

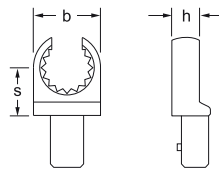


Art. Code	mm	mm	s mm	b mm	h mm	g	
6191 0070	9 x 12	7	17.5	13.0	8	38	1
6191 0080	9 x 12	8	17.5	14.2	8	37	1
6191 0100	9 x 12	10	17.5	17.2	9	40	1
6191 0110	9 x 12	11	17.5	18.5	9	42	1
6191 0120	9 x 12	12	17.5	20.0	12	51	1
6191 0130	9 x 12	13	17.5	21.5	12	51	1
6191 0140	9 x 12	14	17.5	23.0	12	53	1
6191 0160	9 x 12	16	17.5	25.7	13	56	1
6191 0170	9 x 12	17	17.5	27.2	13	55	1
6191 0180	9 x 12	18	17.5	28.5	13	60	1
6191 0190	9 x 12	19	17.5	30.3	13	64	1
6191 0210	9 x 12	21	17.5	33.0	15	68	1
6191 0220	9 x 12	22	17.5	34.5	15	71	1
6191 1130	14 x 18	13	25.0	21.5	11	130	1
6191 1140	14 x 18	14	25.0	23.0	11	132	1
6191 1160	14 x 18	16	25.0	25.7	12	137	1
6191 1170	14 x 18	17	25.0	27.2	12	141	1
6191 1180	14 x 18	18	25.0	28.5	12	139	1
6191 1190	14 x 18	19	25.0	30.5	12	145	1
6191 1210	14 x 18	21	25.0	33.0	15	152	1
6191 1220	14 x 18	22	25.0	34.5	15	157	1
6191 1240	14 x 18	24	25.0	37.5	15	162	1
6191 1270	14 x 18	27	31.0*	41.5	17	205	1
6191 1300	14 x 18	30	31.0*	45.0	19	205	1
6191 1320	14 x 18	32	31.0*	47.5	19	214	1
6191 1340	14 x 18	34	31.0*	50.5	19	226	1
6191 1360	14 x 18	36	31.0*	53.0	19	230	1
6191 1410	14 x 18	41	31.0*	59.0	20	235	1



6192 Flared Ring End Insert Tools

- With pin lock
- *) = please consider the depth gauge (s) for correct calculation of the torque value



Art. Code	mm	mm	s mm	b mm	h mm	g	
6192 0100	9 x 12	10	17.5	21.0	11.0	40	1
6192 0110	9 x 12	11	17.5	22.5	11.0	40	1
6192 0120	9 x 12	12	17.5	23.7	11.0	40	1
6192 0130	9 x 12	13	17.5	25.2	11.0	40	1
6192 0140	9 x 12	14	17.5	27.0	12.0	50	1
6192 0170	9 x 12	17	17.5	31.5	12.0	65	1
6192 0180	9 x 12	18	17.5	33.0	14.5	65	1
6192 0190	9 x 12	19	17.5	34.5	14.5	65	1
6192 0220	9 x 12	22	20.0*	39.0	14.5	65	1

All important insert tools in a solid metal case.

Assortments of Insert Tools.



6190 Sets of Open End Insert Tools 9 x 12



- Sets with the most important open end insert tools with rectangular cavity in 9 x 12 mm
- With torque wrench and fine teeth insert reversible ratchet

Art. Code			↔	↑↓	⚖	📦
Art. Code			l mm	b mm	g	
6190 9100		5 - 50 N-m	445	185	1400	1
6190 9101		10 - 100 N-m	445	185	1400	1
		6185				
		6186				
		6190 8 - 10 - 11 - 12 - 13 - 16 - 17 - 19 mm				

6191 Sets of Ring End Insert Tools 9 x 12



- Sets with the most important ring end insert tools with rectangular cavity in 9 x 12 mm
- With torque wrench and fine teeth insert reversible ratchet

Art. Code			↔	↑↓	⚖	📦
Art. Code			l mm	b mm	g	
6191 9100		5 - 50 N-m	445	185	1400	1
6191 9101		10 - 100 N-m	445	185	1400	1
		6185				
		6186				
		6191 8 - 10 - 11 - 12 - 13 - 16 - 17 - 19 mm				

6194 Set of Insert Tools Basic 9 x 12

- Set with the most important open and ring end insert tools with rectangular cavity in 9 x 12 mm
- Without torque wrench
- With fine teeth insert reversible ratchet

Art. Code		l mm	b mm	g	
6194 9170		445	185	1400	1
	6186 6190 8 - 10 - 11 - 12 - 13 - 16 - 17 - 19 mm 6191 8 - 10 - 11 - 12 - 13 - 16 - 17 - 19 mm				



6194 Sets of Insert Tools Pro 9 x 12

- Set with the most important insert tools with rectangular cavity in 9 x 12 mm
- With torque wrench
- With fine teeth insert reversible ratchet

Art. Code		l mm	b mm	g	
6194 9180		445	185	1350	1
6194 9181		445	185	1400	1
	6185 6186 6190 8 - 10 - 11 - 12 - 13 - 16 - 17 - 19 mm 6191 8 - 10 - 11 - 12 - 13 - 16 - 17 - 19 mm				



6190 Set of Open End Insert Tools 14 x 18

- Set with the most important open end insert tools with rectangular cavity in 14 x 18 mm
- With fine teeth insert reversible ratchet

Art. Code		l mm	b mm	g	
6190 9110		445	185	1300	1
	6186 6190 13 - 16 - 17 - 19 - 21 - 22 - 24 - 27 - 30 - 32 mm				



6191 Set of Ring End Insert Tools 14 x 18

- Set with the most important ring end insert tools with rectangular cavity in 14 x 18 mm
- With fine teeth insert reversible ratchet

Art. Code		l mm	b mm	g	
6191 9110		445	185	1300	1
	6186 6191 13 - 16 - 17 - 19 - 21 - 22 - 24 - 27 - 30 - 32 mm				



The function principle of a torque multiplier.

High Output Torque = Low Input Torque x Revolution.



Why use a torque multiplier?

The longer a lever arm the higher the force action. But especially when it comes to industrial screw connections from a certain torque value onwards this basic physical principle is no longer practicable. In case of high torque values it is even no longer possible. For instance, a torque value of 9500 N-m / 7000 lbf-ft cannot be reached with a torque wrench in accordance with the lever rule which says that the distance to the fulcrum determines the rotational effect of the applied force.

Torque multipliers provide a remedy. They substitute the classic lever principle by the physical formula:

$$\text{Torque (Output)} = \text{Torque (Input)} \times \text{Revolution.}$$

It is thus the number of revolutions that determines the output torque, not the length of the lever.

Effective gearing as a standard.

Torque multipliers can be compared to adapters which multiply the applied force (= the input torque) with the help of a gear without having to use long lever arms. The multiplying effect depends on the gear ratio of the gear used.

MATADOR torque multipliers are equipped with high quality **ball-bearing precision planetary gears** that have an additional overload protection. Thanks to the effective gear ratio the desired output torque is easy to calculate and complicated correction tables are things of the past.

Torque multipliers are very robust and designed for continuous operation under industrial conditions. They should not be missing in any workshop.

Maximum power in the smallest of spaces.

Torque Multipliers are ideal for mobile application thanks to usage without any electronic or pneumatic support.

The main benefits are:

- ✓ Very high power application without long lever arms, useable in most confined spaces
- ✓ Work with standard workshop torque wrenches, no hidden extra costs
- ✓ Effective gearing, specified gear ratio is the true factor for torque multiplication
- ✓ Lower priced and more variable in use than comparable torque wrenches
- ✓ From 4 500 N-m / 3 300 lbf-ft with anti-wind-up ratchet for safe working

Function example



Input torque
= 300 N-m / 220 lbf-ft



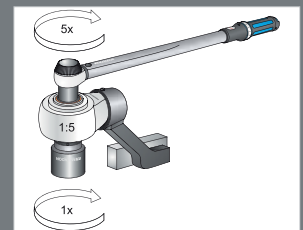
Gear ratio 1:5



Output torque
= 1500 N-m / 1100 lbf-ft

Based on a gear ratio of 1:5, 5 revolutions at the input (with an input torque of 300 N-m / 220 lbf-ft) are required in order to achieve 1500 N-m / 1100 lbf-ft as the output torque.

Input torque and output torque are regarded as constant, the power is only determined by the number of revolutions.



More power without long levers.

MATADOR Torque Multipliers. The solid compact class.

Heavy duty construction with **planet gear mechanism** with **3 precisely engineered gear stages** and hardened gear wheels.

With reaction arm.



1500 – 2700 N·m
(1100 - 2000 lbf·ft).



→ Including plug-in reaction foot



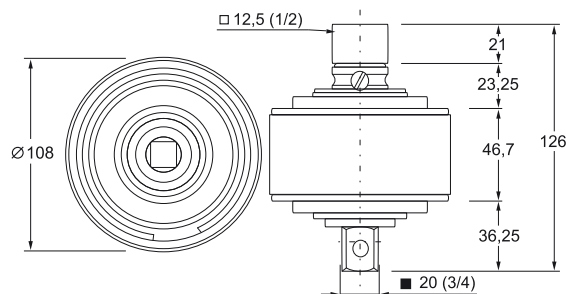
→ In solid plastic case



6182 Torque Multipliers

- Perfect for applications where compact size and weight are critical or for mobile use
- For reducing the effort of applying high torque without electric or pneumatic devices
- Planet gear mechanism with 3 precisely engineered gear stages
- True 5:1 torque multiplication
- Multiplication accuracy according to DIN ISO 6789 / ASME B107.14M-1994 better than ±5%
- Supplied with 2 reaction styles for maximum versatility (reaction bar and plug-in reaction foot)
- In extremely sturdy plastic case

±5%



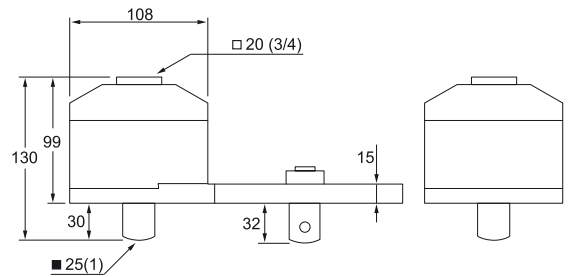
Art. Code	mm	"	mm	"	N·m	lbf·ft	Ratio	N·m	lbf·ft	mm	g	g	Volume
6182 0010	20	3/4	12.5	1/2	1500	1100	1:5	300	220	108	3500	6480	1
6182 0020	25	1	12.5	1/2	2700	2000	1:5	540	400	108	4150	6480	1

6182 Torque Multiplier

±5%

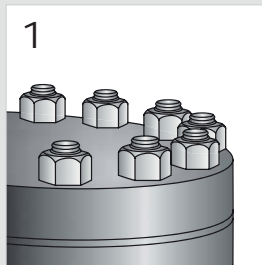


- Universal torque multiplier for up to 3 500 N-m / 2 600 lbf-ft
- For maximum torque multiplication without electric or pneumatic devices
- With precision planet gear for high efficiency
- Effective gear ratio 1:4.5, no conversion necessary
- Multiplication accuracy according to DIN ISO 6789 / ASME B107.14M-1994 better than ±5%
- Low maintenance, with lifetime lubrication
- Including permanently welded reaction plate and sliding reaction square in 25 mm (1") which can be fixed to an adjacent screw together with an impact socket
- With overload protection through input square for protecting the gear box, including spare square
- In sturdy metal case

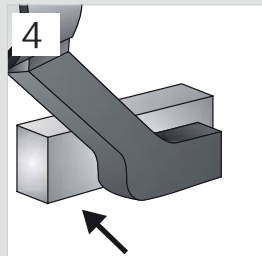


Art. Code	mm	"	mm	"	N-m	lbf-ft	Ratio	N-m	lbf-ft	mm	l mm	g	Volume
6182 0030	20	3/4	25	1	3500	2600	1:4.5	770	570	108	264	7300	1

Simple operation in 6 steps. Without strain and electronic devices.

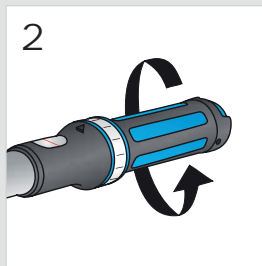


1 Define target output torque and choose the right torque multiplier (capacities 1500 - 9500 N-m / 1100 - 7000 lbf-ft).



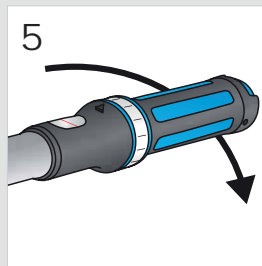
4 Place multiplier on the fastener and choose a suitable reaction point.

Caution: Check if multiplier is rotating in the right direction - reaction point must be stable!

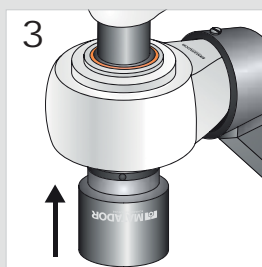


2 Calculate input torque according to ratio (here 1/5th of required torque) and set torque wrench - never exceed the maximum input torque:

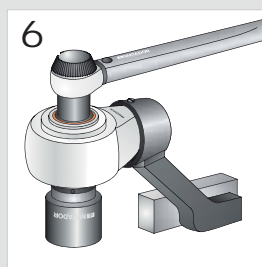
Example:
Target output torque: 1500 N-m (1100 lbf-ft)
Ratio: 1:5
= Input torque: 300 N-m (220 lbf-ft)



5 Now tighten until you hear the click. Do not overload the multiplier.



3 Assemble socket on output square of multiplier (Caution: only use impact sockets with safety pin and ring due to high tension, do not use an extra-long socket or an extension).



6 After the multiplier is locked on: Do not strike the anti wind-up ratchet. Reverse the direction of the wind-up ratchet and untighten with the torque wrench until multiplier can be unlocked.

For heavy industries and high torque demands.

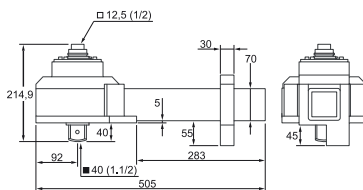
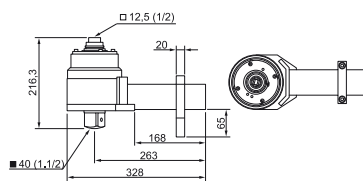
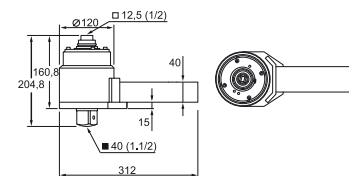
The performance class: 4500 - 9500 N·m (3300 - 7000 lbf·ft).



6182 Torque Multipliers

±5%

- For heavy duty industrial screw connections
- Output torque between 4500 - 9500 N·m / 3300 - 7000 lbf·ft depending on the model
- Usable in most confined spaces, operated simply with short torque wrench
- Maximum torque multiplication without additional devices
- With precision planet gear for high efficiency
- Effective gear ratio 1:20 and 1:26, no conversion necessary
- Multiplication accuracy according to DIN ISO 6789 / ASME B107.14M-1994 better than ±5%
- Low maintenance, with lifetime lubrication
- With anti-wind-up ratchet
- Including reaction arm (starting from 6000 N·m (4400 lbf·ft) additionally with adjustable support device)
- With overload protection (input square, starting from 6000 N·m (4400 lbf·ft) secured with pin and ring, including spare square and pin)
- In sturdy metal case



Art. Code	mm	"	mm	"	N·m	lbf·ft	Ratio	N·m	lbf·ft	mm	l	g	Weight
6182 0040	12.5	1/2	40	1.1/2	4500	3300	1:20	225	170	120	312	8300	1
6182 0050	12.5	1/2	40	1.1/2	6000	4400	1:26	230	170	130	328	15 700	1
6182 0060	12.5	1/2	40	1.1/2	9500	7000	1:26	365	365	184	505	30 300	1

Extremely light and slim.

Torque Multipliers SlimLine. 3200 - 12000 N·m (2400 - 8900 lbf·ft).



→ CNC manufactured high precision parts



→ Perfect for the use in all areas with restricted access to electricity

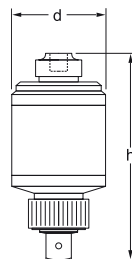


→ For heavy industry and construction sites

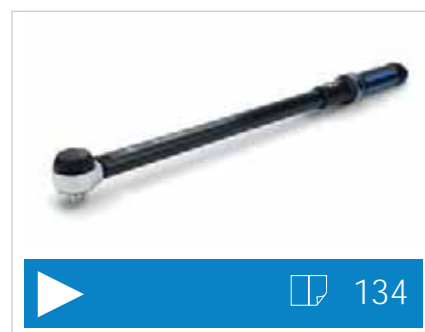
6183 Torque Multipliers 3200 - 12000 N·m

±3%

- For heavy duty industrial screw connections
- Output torque between 3200 - 12000 N·m / 2400 - 8900 lbf·ft depending on the model
- Usable in most confined spaces, operated simply with short torque wrench
- Maximum torque multiplication without additional devices
- With precision planet gear for high efficiency
- Multiplication accuracy better than ±3%
- Low maintenance, with lifetime lubrication
- With anti-wind-up ratchet
- Including reaction arm
- With overload protection
- Supplied with certificate, instructions manual, spare pins, reaction foot



Art. Code	mm	"	mm	"	N·m	lbf·ft	Ratio	N·m	lbf·ft	d mm	h mm	g	Box
6183 0320	12,5	1/2	25	1	3200	2400	1:10	540	400	88	225	4700	1
6183 0420	12,5	1/2	25	1	4200	3100	1:10	540	400	88	235	5900	1
6183 0620	12,5	1/2	40	1.1/2	6200	4600	1:16	680	500	130	265	10800	1
6183 1000	12,5	1/2	40	1.1/2	10000	7400	1:60	1860	1400	130	315	15800	1
6183 1200	12,5	1/2	40	1.1/2	12000	8900	1:75	1900	1400	175	328	19000	1



Content Pneumatic Tools.

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Impact Wrenches.

- 161 Impact Wrench 12.5 mm (1/2")
- 161 Impact Wrenches 20 mm (3/4") and 25 mm (1")
- 162 Impact Wrenches 25 mm (1") „FatCat“



Miscellaneous Air Tools.

- 163 Air Hammer
- 163 Air Hammer, 9 pcs. set
- 164 Mini Ratchet Wrench 6.3 mm (1/4")
- 165 Ratchet Wrench 10 mm (3/8")
- 165 Ratchet Wrench 12.5 mm (1/2")
- 166 Air Drill 10 mm (3/8")
- 166 Die Grinder, straight
- 167 Micro Die Grinder
- 167 Air Duster
- 168 Air Riveter
- 168 Heavy Duty Air Riveter
- 169 Grease Gun



Accessories.

- 170 Precision Oiler
- 170 Mini Grease Pump
- 170 Mini Grease Oil
- 170 Oil Regulator
- 170 Maintenance Unit
- 171 PU compressed air spiral coiled tube
- 171 PU compressed air hose
- 171 Automatic hose reel
- 172 Quick Coupler with male thread
- 172 Male Coupler with male thread
- 172 Quick Coupler with female thread
- 172 Male Coupler with female thread
- 173 Quick Coupler with hose connector
- 173 Male Coupling with hose connector
- 173 Reducing Nipple
- 173 Reducing Nipple
- 174 Hose Nipple with Male Thread
- 174 Compressed Air 3-way Separator
- 174 Compressed Air Regulator
- 174 Metal Swivel Joint
- 175 Padded ear defenders
- 175 Micro fine woven gloves
- 175 Protecting Glasses

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Impact Tools 6.3 (1/4).

- 177 Impact Sockets
- 177 Impact Converter
- 177 Safety Rings and Safety Pins



Impact Tools 10 (3/8).

- 178 Impact Extension
- 178 Impact Sockets
- 178 Safety Rings and Pins



Impact Tools 12.5 (1/2).

- 179 Impact Extension
- 179 Impact Sockets
- 179 Safety Rings and Pins
- 179 Impact Extensions
- 179 Impact Universal Joint
- 179 Impact Sockets
- 180 Impact Socket Set, 14 pcs.
- 180 Impact Sockets, long type
- 181 Impact Socket Set, 13 pcs.
- 181 Impact Reducer
- 181 Impact Converter
- 182 Impact Screwdriver Bit Sockets (Hexagon)
- 182 Impact Screwdriver Bit Socket Set, 6 pcs.
- 182 Impact Screwdriver Bit Sockets (XZN)
- 183 Impact Screwdriver Bit Socket Set, 6 pcs.
- 183 Impact Screwdriver Bit Sockets (TORX®)
- 183 Impact Screwdriver Bit Socket Set, 6 pcs.
- 184 Impact Screwdriver Bit Sockets (TORX®)
- 184 Impact Screwdriver Bit Socket Set, 9 pcs.
- 184 Safety Rings and Safety Pins



Impact Tools 20 (3/4).

- 185 Impact Extensions
- 185 Impact Universal Joint
- 185 Impact Sockets
- 186 Impact Socket Set, 17 pcs.
- 186 Impact Sockets, long type
- 187 Impact Reducer
- 187 Impact Converter
- 187 Impact Screwdriver Bit Sockets (Hexagon)
- 188 Impact Screwdriver Bit Sockets (TORX®)
- 188 Safety Rings and Safety Pins

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Impact Tools 25 (1).

- 189 Impact Extensions
- 189 Impact Universal Joint
- 189 Impact Sockets
- 190 Impact Sockets, long type
- 190 Impact Reducer
- 190 Impact Converter
- 191 Safety Rings and Safety Pins



Impact Tools 40 (1.1/2) / 63 (2.1/2).

- 191 Impact Sockets
- 192 Impact Sockets, long type
- 192 Safety Rings and Safety Pins
- 193 Impact Sockets
- 193 Safety Rings and Safety Pins



Pneumatic Tools.

Be a MATADOR.

At a push.

MATADOR Pneumatic Tools. Powered screw tightening.



Professionals work with compressed air.

Certainly screws can be tightened or untightened with a simple reversible ratchet. But everybody who had to tighten more than 5-10 screws one after another knows the problem: It is an arduous task.

This work is done much faster and more safely with machine-driven sockets and operating tools.

For industrial application mainly pneumatic tools are used because of their higher performance and compact design. Electric tools are only rarely used in this field.

Compressed air motors have proven themselves as a solution for numerous drive-related requirements. Their **solidity** and **durability** as well as only little efforts in terms of assembly, installation and maintenance speak for themselves.

High peak torque and easy tightening.

Impact wrenches operate by a spinning motor that delivers a shock of power to a lug nut. This shock loosens and turns the nut very quickly. The hammer mechanism is designed such that after delivering the impact, the hammer is again allowed to spin freely, and does not stay locked.

This is an advantage which cannot be provided by electrical tools and which is especially helpful for untightening stuck screws.

Thanks to the adjustable torque limitation also during tightening operation power can be applied in a controlled manner.

When used correctly over-twisted screws are a thing of the past. And the final rotation should always be done with a torque wrench.

The MATADOR quality promise.

There are many different kinds of pneumatic tools but often the quality is not very reliable.

MATADOR pneumatic tools do not only provide excellent technical features but also a **durable quality designed for industrial use**.

We have set-up a range of pneumatic tools that have been tried and tested thoroughly by our technicians and that cover the most important fields of application. True to the motto: **Quality before quantity**.



The MATADOR service.

MATADOR pneumatic tools are designed for a long life and high reliability – provided that they are handled with the right care.

In case of an unplanned need of repairs or for maintenance reasons our service technicians help you in a quick and unbureaucratic way: In our **own workshop** in Remscheid we stock an extensive program of spare parts and are able to conduct repairs and maintenance quickly and reasonably priced.

As a standard with each item we provide an exploded drawing and a spare parts list to help you find the suitable parts in case you want to help yourself.

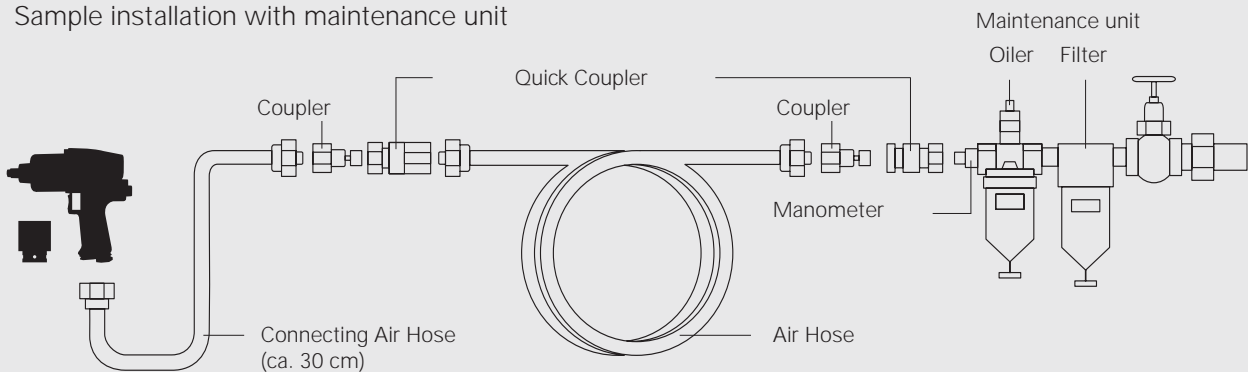
Our service does not end after sales – promise!

Impact technology in a nutshell.

Not only hot air -
with the right care.



Sample installation with maintenance unit



Air pressure:
6.3 bar (90 psi).

The performance of your impact tool depends essentially on the **ideal air inlet pressure**.

Air inlet pressures that are too high will lead to excessive wear and failure of the tool after a while. Tools operating with too low air pressure are usually lacking in their full performance.

The ideal pressure of the supplied air should be 6.3 bar (90 psi) at the air entrance of the air tool (also when air is flowing). Only with ideal air pressure the impact tool will achieve the technical properties as defined in the respective manual.



The ideal air volume.

To reach the ideal performance of the impact tool the perfect air volume depends on many factors:

The maximum air consumption values for the relevant impact tool (l/min or CFM), the recommended hose sizes (inner diameter), the maximum flow rates of the maintenance unit and the effective capacity of the compressor must be balanced.

The recommended hose size is indicated in the MATADOR manuals and catalogues.

As a rough guide please use:

l/min	CFM	mm
100-190	4-6	6-9
195-300	7-10	13

Right Lubrication is the most important issue.

The consequent lubrication of air motors is absolutely required to maintain full performance of the motor, to prolong the life time of the motor and to prevent corrosion.

If you don't use a maintenance unit or an additional oiler, the impact tool should be lubricated manually every day before use.

In this case decouple the impact tool from the quick coupler and trickle approx. 5 ml of a suitable air motor oil into the hose. As a rough guide use 1-2 drops of oil per cubic meter compressed air.

After this reconnect the impact tool with the air supply and run the motor for a few seconds at a slow rate in order to homogenously distribute the oil in the drive.

Only with maintenance unit.

The reliability and durability of an impact tool can significantly be improved by the assembly of a maintenance unit.

MATADOR recommends to install a maintenance unit on each workplace consisting of manometer, lubricator and water separator.

The water separators and filters which are integrated in our maintenance units avoid corrosion in air motors and supply clean air. A high content of water in the compressed air will lead to rust inside which means air pressure losses and a lack of performance of the air tools.

If no filters are used, rust and particles will damage or block the motor.

Maximum performance at low weight.

Still working when others have long given up. MATADOR Impact Wrenches with composite housing.

Ultra light composite housing.

High performance **Twin Hammer Clutch Mechanism** with 2 anvils with a newly developed Twin Line driver to create an enormous breakaway torque already within the first rotations of the engine.

With one-hand switchover.

Non-slip handle.

Extremely low air consumption, e.g. only 113 l/min with 12.5 (1/2") drive.

Exhaust air guided downwards through the handle.



The Double Hammer principle. Superior technique for heavy duty application.

MATADOR impact wrenches use **only top class twin hammer clutch mechanisms**, also in (3/4") und 25 (1") class tools. Compared to simple pin clutch mechanisms these twin clutch hammers are more robust, consist of only few single parts (i.e. less wear parts) and provide a reliable, constant impact with ücontinuous torque progression.

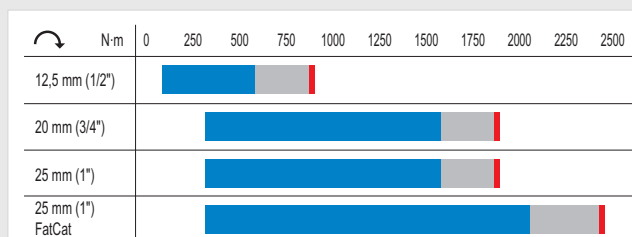
Superior quality at a reasonable price.



→ High-performance Twin Hammer Clutch Mechanism



→ One-hand forward/reverse shift through practical push button



→ 3 performance classes from 813 - 2441 maximum torque (N-m)

What really matters.

Five factors determine the performance of impact wrenches. We at MATADOR have attached great importance to these:

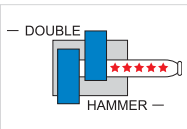
- **High loosening torque** (so that fixed screw joints can be loosened powerfully)
- Constant, reliable impact through **twin hammer clutch mechanisms**
- Low weight for less fatiguing operation, in best case through **composite housing**
- **Low air consumption**
- **Low-maintenance** and robust construction

7000 Impact Wrench 12.5 mm (1/2")

1/2 12.5 mm

- High-performance impact wrench with excellent technical features
- Enormous **1.490 N·m** max. loosening torque
- Only **83 dB(A)** sound pressure level
- Only **1.9 kg** in weight (composite housing)
- Cold-insulated handle
- Extremely low vibration, ideal for continuous operation
- With high-performance **twin hammer clutch mechanism** with 6-blades rotor
- Including coupler

	Maximum loosening torque	N·m ft-lbs	1490 1100
	Maximum torque	N·m ft-lbs	813 600
	Recommended torque	N·m ft-lbs	68-542 50-400
	Sound pressure level	dB(A)	83
	Idle speed	U/min rpm	7000
	Air consumption	l/min CFM	113 4
	Operating pressure	bar psi	6.3 90
	Air inlet thread	IG mm NPT "	11.8 1/4
	Recommended hose size	mm "	10 3/8



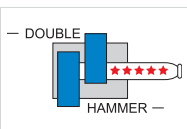
Art. Code	mm	"	mm	g	
7000 0001	12.5	1/2	183	1900	1

7000 Impact Wrenches 20 mm (3/4") and 25 mm (1")

1 25 mm 3/4 20 mm

- High-performance impact wrench with excellent technical features
- Enormous **2.645 N·m** max. loosening torque
- Only **90 dB(A)** sound pressure level
- Only **3.4 and 3.5 kg** in weight (composite housing)
- With **twin hammer clutch mechanism**
- Cold-insulated handle
- Extremely low vibration, ideal for continuous operation
- With high-performance **twin hammer clutch mechanism** with 6-blades rotor
- Including coupler

	Maximum loosening torque	N·m ft-lbs	2645 1950
	Maximum torque	N·m ft-lbs	1898 1400
	Recommended torque	N·m ft-lbs	271-1627 200-1200
	Sound pressure level	dB(A)	90
	Idle speed	U/min rpm	5500
	Air consumption	l/min CFM	198 7
	Operating pressure	bar psi	6.3 90
	Air inlet thread	IG mm NPT "	15.25 3/8
	Recommended hose size	mm "	13 1/2

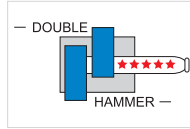


Art. Code	mm	"	mm	g	
7000 0002	20	3/4	215	3300	1
7000 0003	25	1	223	3400	1

Maximum performance at low weight.

MATADOR FatCat. Powerful 2.440 Nm. Only 6.5 kg. Only 96 dB(A).

High-performance twin hammer clutch mechanism with 2 anvils with a newly developed high-end Twin Line driver. For higher loosening torque already within the first engine rotations.



7000 Impact Wrenches 25 mm (1") „FatCat“

1 25 mm



- High Impact Wrench with outstanding technical properties
- With twin hammer impact mechanism with 6-vane motor
- Enormous 3.389 N-m maximum release torque
- Only 96 dB (A) sound pressure level
- Only 6.5 kg weight (composite housing)
- Includes spindle 185 mm (7.3")
- Complete with side handle with mounting kit
- Includes coupler plug



- Supply air can be guided downwards or backwards

	Maximum loosening torque	N-m ft-lbs	3389 2500
	Maximum torque	N-m ft-lbs	2441 1800
	Recommended torque	N-m ft-lbs	271-2033 200-1500
	Sound pressure level	dB(A)	96
	Idle speed	U/min rpm	6000
	Air consumption	l/min CFM	282 10
	Operating pressure	bar psi	6.3 90
	Air inlet thread	IG mm NPT "	19 1/2
	Recommended hose size	mm "	13

Art. Code	mm	"	mm	g	
7000 0004	25	1	324	6500	1

7006 Air Hammer

- For loosening rusted screws, detaching car body sheets and for general industrial application
- Enormous 3.200/min blow count
- Power control via easily accessible push button, continuous speed regulation
- Hexagon chisel insert 10 mm
- Ultra-lightweight plastic housing
- Only 1.6 kg in weight
- Extremely low vibration, ideal for continuous operation
- Including retaining spring
- Cold-insulated handle
- Including coupler

	Blows per minute	min ⁻¹ BPM	3200
	Sound pressure level	dB(A)	90.4
	Idle speed	U/min rpm	7000
	Air consumption	l/min CFM	113 4
	Operating pressure	bar psi	6.3 90
	Air inlet thread	IG mm NPT *	11.8 1/4
	Recommended hose size	mm *	10 3/8



Art. Code	mm		mm	g	
7006 0001	10		171	1600	1

7006 Air Hammer, 9 pcs. set

- Including the most important hexagon chisels
- In robust plastic case
- Set contents:
 - 1 air hammer 7006 0001
 - 1 retaining spring
 - 1 mini oiler for direct assembly to the air hammer
 - 1 coupler
 - 5 chisels:
 - 1 rivet cutter
 - 1 spot weld breaker chisel
 - 1 double-edged steel chisel
 - 1 flat chisel
 - 1 curve separating tool

	Blows per minute	min ⁻¹ BPM	3200
	Sound pressure level	dB(A)	90.4
	Idle speed	U/min rpm	7000
	Air consumption	l/min CFM	113 4
	Operating pressure	bar psi	6.3 90
	Air inlet thread	IG mm NPT *	11.8 1/4
	Recommended hose size	mm *	10 3/8



Never connect a pneumatic tool directly to the coupler.

If the quick-lock coupling of the air inlet is directly connected to a pneumatic tool (e.g. air hammer) vibrations will be transferred to the coupler which might cause damage at the nipple as well as at the coupler itself and the air inlet thread of the tool.

To avoid this the most economic and simplest way is to fix a connection hose directly to the tool so that vibrations cannot be transferred.

Art. Code			g	
7006 9001			3300	1

Small. Handy. Resilient.

Ratchet Wrenches with especially low air consumption. For constant impact.



7001 Mini Ratchet Wrench 6.3 mm (1/4")

1/4 6.3 mm



- High-performance pin clutch impact mechanism for continuous torque progression - saves your knuckles
- 3x faster than standard ratchets
- Very small and handy, only 177 mm in length
- Only 79 dB(A) sound pressure level
- With continuous power regulator for variable speed adjustment depending on the case of application
- Cushioned grip, low vibration
- Cold-insulated handle, suitable for outside work and continuous operation
- Forward/reverse
- Exhaust air is guided downwards through the handle (rotating exhaust)
- Including coupler

	Maximum loosening torque	N-m ft-lbs	27 20
	Recommended torque	N-m ft-lbs	7-27 5-20
	Sound pressure level	dB(A)	79
	Idle speed	U/min rpm	200
	Air consumption	l/min CFM	113 4
	Operating pressure	bar psi	6.3 90
	Air inlet thread	IG mm NPT "	11.8 1/4
	Recommended hose size	mm "	10 3/8



Art. Code	mm	"	mm	g	
7001 0001	6.3	1/4	177	500	1

7001 Ratchet Wrench 10 mm (3/8")

3/8 10 mm

- High-performance pin clutch impact mechanism for continuous torque progression - saves your knuckles
- 3x faster than standard ratchets
- High torque value 82 N-m
- Only 82 dB(A) sound pressure level
- With continuous power regulator for variable speed adjustment depending on the case of application
- Patented anti-deformation ratchet head for additional stability and precise power transmission without deformation
- Cushioned grip, low vibration
- Cold-insulated handle, suitable for outside work
- Forward/reverse
- Exhaust air is guided downwards through the handle (rotating exhaust)
- Including coupler

	Maximum loosening torque	N-m ft-lbs	82 60
	Recommended torque	N-m ft-lbs	14-82 10-60
	Sound pressure level	dB(A)	92
	Idle speed	U/min rpm	160
	Air consumption	l/min CFM	113 4
	Operating pressure	bar psi	6.3 90
	Air inlet thread	IG mm NPT *	11.8 1/4
	Recommended hose size	mm "	10 3/8



Art. Code	mm	"	mm	g	
7001 0002	10	3/8	177	600	1

7001 Ratchet Wrench 12.5 mm (1/2")

1/2 12.5 mm

- High-performance pin clutch impact mechanism for continuous torque progression - saves your knuckles
- 3x faster than standard ratchets
- High torque value 68 N-m
- Only 79 dB(A) sound pressure level
- With continuous power regulator for variable speed adjustment depending on the case of application
- Patented anti-deformation ratchet head for additional stability and precise power transmission without deformation
- Cushioned grip, low vibration
- Cold-insulated handle, suitable for outside work
- Forward/reverse
- Exhaust air is guided downwards through the handle (rotating exhaust)
- Including coupler

	Maximum loosening torque	N-m ft-lbs	68 50
	Recommended torque	N-m ft-lbs	14-68 10-50
	Sound pressure level	dB(A)	79
	Idle speed	U/min rpm	150
	Air consumption	l/min CFM	113 4
	Operating pressure	bar psi	6.3 90
	Air inlet thread	IG mm NPT *	11.8 1/4
	Recommended hose size	mm "	10 3/8



Art. Code	mm	"	mm	g	
7001 0003	12,5	1/2	258	1200	1

7002 Air Drill 10 mm (3/8")



- High-performance drill with excellent technical features
- With composite housing, only 1.1 kg in weight
- With keyless chuck, chuck size 1-10 mm
- Forward/reverse
- Only 83 dB(A) sound pressure level
- Cold-insulated handle, suitable for outside work and continuous operation
- Forward/reverse
- Exhaust air is guided downwards through the handle (rotating exhaust)
- Including coupler

	Sound pressure level	dB(A)	83
	Idle speed	U/min rpm	1800
	Air consumption	l/min CFM	113 4
	Operating pressure	bar psi	6.3 90
	Air inlet thread	IG mm NPT *	11.8 1/4
	Recommended hose size	mm "	10 3/8



Art. Code	mm	"	mm	g	
7002 0001	10	3/8	185	1100	1

7004 Die Grinder, straight



- Ideal for grinding, polishing and deburring
- For HM mills, mini cutting discs and grinding heads with a 6 mm (1/4") shaft
- Only 0.7 kg in weight
- Low noise, only 79 dB(A) sound pressure level
- With continuous power regulator for variable speed adjustment depending on the case of application
- Cushioned grip, low vibration
- Cold-insulated handle, suitable for outside work and continuous operation
- Forward/reverse
- Exhaust air is guided downwards through the handle (rotating exhaust)
- Including coupler

	Sound pressure level	dB(A)	79
	Idle speed	U/min rpm	20000
	Air consumption	l/min CFM	113 4
	Operating pressure	bar psi	6.3 90
	Air inlet thread	IG mm NPT *	11.8 1/4
	Recommended hose size	mm "	10 3/8



Art. Code	mm	"	mm	g	
7004 0001	6.3	1/4	188	700	1

7004 Micro Die Grinder

- For work in confined spaces
- Very handy and slim design
- Ideal for grinding, polishing and deburring
- For HM mills, mini cutting discs and grinding heads with a 3 mm (1/8") shaft
- Low noise, only 79 dB(A) sound pressure level
- With continuous power regulator for variable speed adjustment depending on the case of application
- Cushioned grip, low vibration
- Cold-insulated handle, suitable for outside work and continuous operation
- Forward/reverse
- Exhaust air is guided downwards through the handle (rotating exhaust)
- Including coupler

	Sound pressure level	dB(A)	79
	Idle speed	U/min rpm	56000
	Air consumption	l/min CFM	113 4
	Operating pressure	bar psi	6.3 90
	Air inlet thread	IG mm NPT "	11.8 1/4
	Recommended hose size	mm "	10 3/8



Art. Code	mm	"	mm	g		
7004 0002	3.0	1/8	132	400	1	

7003 Air Duster

- For cleaning and removing of swarfs and other particles, especially in confined spaces
- Anti-slip handle made of special plastic
- Steel nozzle
- Adjustable air volume
- With hanging hole
- Can be connected directly to air coupling

	Sound pressure level	dB(A)	85-90
	Idle speed	U/min rpm	15 220
	Air consumption	l/min CFM	300
	Operating pressure	bar psi	5-8 75-120
	Air inlet thread	IG mm NPT "	11.8 1/4
	Recommended hose size	mm "	10 3/8



Art. Code	mm	"	mm	g	
7003 0001	130		100	1	

7007 Air Riveter



- For quick and professional riveting
- Pneumatic
- With robust metal housing
- For standard blind rivets made of copper, steel, aluminium and other softer materials
- Possible rivet sizes: 3 - 3.2 - 4.0 - 4.8 mm (stainless steel rivets only up to 4,0 mm)
- Stroke length: 14 mm (9/16")
- Exhaust air is guided downwards through the handle (rotating exhaust)
- Including coupler



	Sound pressure level	dB(A)	77,5
	Diameter of blind rivets	mm	2.4-4.8
	Driving power	N lbs	7050 1586
	Air consumption	l/min CFM	113 4
	Operating pressure	bar psi	6.3 90
	Air inlet thread	IG mm NPT "	11.8 1/4
	Recommended hose size	mm "	10 3/8

Art. Code		mm	g	
7007 0001		292	1970	1

7007 Heavy Duty Air Riveter



- For industrial use with high driving power
- For quick and professional riveting
- Pneumatic
- With robust metal housing
- For standard blind rivets made of copper, steel, aluminium and other softer materials
- Possible rivet sizes: 3 - 3.2 - 4.0 - 4.8 - 5.6 and 6,4 mm (stainless steel rivets only up to 5.5 mm)
- Stroke length: 14 mm (9/16")
- Exhaust air is guided downwards through the handle (rotating exhaust)
- Including coupler







	Sound pressure level	dB(A)	77,5
	Diameter of blind rivets	mm	2.4-6.4
	Driving power	N lbs	13590 3055
	Air consumption	l/min CFM	113 4
	Operating pressure	bar psi	6.3 90
	Air inlet thread	IG mm NPT "	11.8 1/4
	Recommended hose size	mm "	10 3/8

Art. Code		mm	g	
7007 0002		292	1970	1

7008 Grease Gun

- For DIN grease cartridges or direct filling out of bulk containers, e.g. also 400 - 600 ml sausages
- Quick exhaust by releasing the trigger
- Continuous speed regulation for exact dosing
- Air exhaust guided downwards through the handle
- Cartridge size: 50.8 x 233 mm
- Including coupler plug 7.2 mm

	Air consumption	l/min CFM	72 4
	Operating pressure	bar psi	2.5-5.1 50-70
	Air inlet thread	IG mm NPT *	11.8 1/4
	Recommended hose size	mm "	10 3/8



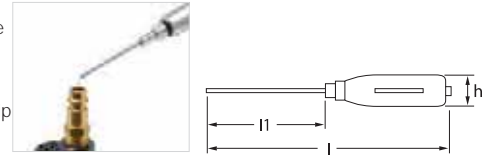
				
Art. Code		mm	g	
7008 0001		450	1900	1



0793 Precision Oiler



- Very practical - for any kind of application
- Allows precise oil delivery, one drop at a time
- With push button on the end to control the flow of oil from the tip
- Complete with screw-on cover and pocket clip
- Light aluminium housing



Art. Code	d mm		l mm	l1 mm	g	
0793 0002	15		140	50	50	1

7005 Mini Grease Pump



- Rigid grease tube for maintenance works on impact mechanisms and/or angle transmissions
- Exact metering by push button with return spring
- Tube contents: 100 g

Art. Code		g	
7005 0001		230	1

7005 Mini Grease Oil



- For the lubrication of impact tools
- With lockable nozzle
- Contents: 100 ml

Art. Code		g	
7005 0002		250	1

7005 Oil Regulator



- For automatic oiling of impact tools
- Ideal für den mobilen Einsatz
- Assembly directly in the access direction
- Refillable

Art. Code	"		l mm	g	
7005 0014	1/4		54	110	1

7005 Maintenance Unit



- Delivers clean, dry and lubricated air at constant pressure for air tools and other compressed air activators
- Filters dirt particles and condensed water
- Consists of filter pressure reducer, oil regulator and manometer
- Output pressure regulates independent of input pressure
- With adjustable oil regulator
- With water separator, filter / regulator and gauge / lubricator
- Inspection glass for fluid inspection
- For the assembly of compressed air tools
- With integrated wall mounting bracket diameter
- Max. pressure 16 bar (232 psi), max. working pressure 12 bar (160 psi)
- Display 0.5 - 12 bar (0 - 160 psi)
- Temperature-resistant between -10 °C and +55 °C

Art. Code	"	l/min max.	ml max	ml max		g	
7005 0011	1/4	1800	30	40		430	1
7005 0012	3/8	5000	50	170		1114	1
7005 0013	1/2	5000	50	170		1300	1

7005 PU compressed air spiral coiled tube

- Flexible, crush resistant polyurethane hose (PU)
- Tube ends with anti kink device
- Rotating fitting
- Flexible in cold
- Oil and petrol resistant
- Max. 12 bar / 174 psi



Art. Code	OW	mm	l m	g	
7005 0005	6	10	8	600	1
7005 0006	8	12	15	1200	1
7005 0007	10	16	15	1800	1

7005 PU compressed air hose

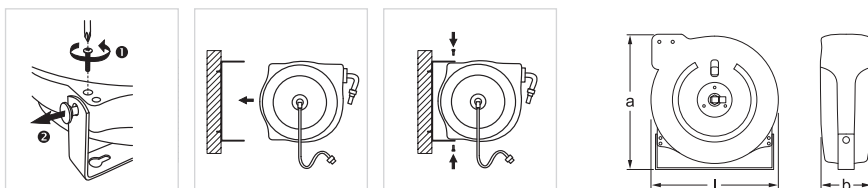
- High quality compressed air hose
- Suitable for compressed air and water
- Light and crush free material
- Suitable accessories
- Long service life
- Oil and petrol resistant
- Temperature-resistant -40 °C up to +70°C



Art. Code	OW	mm	l m	g	
7005 0008	6	9	20	1000	1
7005 0009	8	12	20	1800	1
7005 0010	12	16	20	2000	1

7005 Automatic hose reel

- Automatic hose reel for compressed air
- Impact resistant plastic housing
- Automatic hose return
- Multi gearlock per rotation
- Device adjusting lock, can be disconnected
- With swivelling mounting bracket for wall and overhead installation
- Absolutely maintenance-free
- Max. pressure 20 bar (300 psi)
- With 15 m crush resistant polyurethane hose and buffer
- Inclusive 1 m connection hose

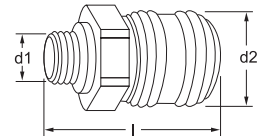


Art. Code	DN	mm	d mm	d "	Hose length	l mm	b mm	a mm	g	
7005 0021	6	10	6	1/4	15+1	445	192	440	10500	1
7005 0022	10	16	10	3/8	15+1	445	192	440	10500	1
7005 0023	12	16	12	1/2	15+1	445	192	440	10500	1

7005 Quick Coupler with male thread



- For one handed operation
- Non return valve
- Self sealing on the coupling
- Spanner Size 22
- Material: Brass

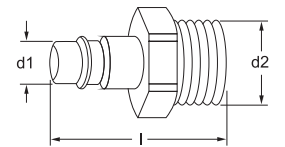


Art. Code	d1 "	mm	l mm	d2 mm	g	
7005 0101	1/4	22	35	22	70	1
7005 0102	3/8	22	36	22	90	1
7005 0103	1/2	22	38	22	90	1

7005 Male Coupler with male thread



- Spanner Size 17, 19, 24
- Material: Brass

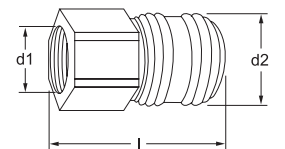


Art. Code	d2 "	mm	l mm	d1 mm	g	
7005 0111	1/4	17	33	10	20	1
7005 0112	3/8	19	33	10	25	1
7005 0113	1/2	22	39	10	30	1

7005 Quick Coupler with female thread



- For one handed operation
- Non return valve
- Self sealing on the coupling
- Spanner Size 22, 24
- Material: Brass

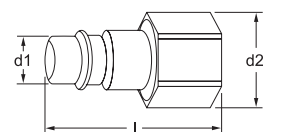


Art. Code	d1 "	mm	l mm	d2 mm	g	
7005 0201	1/4	22	41	22	80	1
7005 0202	3/8	22	41	22	85	1
7005 0203	1/2	22	41	22	90	1

7005 Male Coupler with female thread



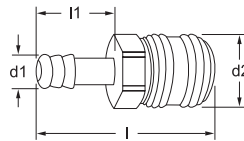
- Spanner Size 17, 19, 24
- Material: Brass



Art. Code	d2 "	mm	l mm	d1 mm	g	
7005 0211	1/4	17	33	10	20	1
7005 0212	3/8	19	33	10	30	1
7005 0213	1/2	22	35	10	40	1

7005 Quick Coupler with hose connector

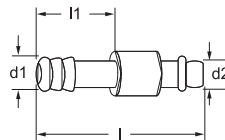
- For one handed operation
- Roller latch
- Non return valve
- Spanner Size 21
- Material: Brass



Art. Code	mm	mm	l mm	l2 mm	d1 mm	d2 mm	g
7005 0301	6	21	55	23	7	26	70
7005 0302	9	21	55	24	10	26	80
7005 0303	13	21	55	25	14	26	90

7005 Male Coupling with hose connector

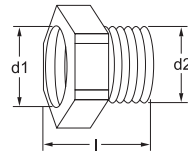
- For hoses with diameter 6-13 mm
- Material: Brass



Art. Code	mm	l mm	l2 mm	d1 mm	d2 mm	g
7005 0401	6	44	23	7	10	10
7005 0402	9	44	23	10	10	20
7005 0403	13	46	23	14	10	25

7005 Reducing Nipple

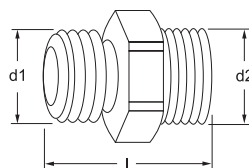
- Spanner Sizes: 19, 24 mm
- Material: Brass



Art. Code	d1 "	d2 "	mm	l mm	g
7005 0501	1/4	3/8	19	14	10
7005 0502	1/4	1/2	19	26	30
7005 0503	3/8	1/2	24	26	50
7005 0504	1/2	3/4	24	26	50

7005 Reducing Nipple

- Spanner Sizes: 17, 19, 24 mm
- Max.: 12 bar
- Material: Brass



Art. Code	d1 "	d2 "	mm	l mm	g
7005 0511	1/4	1/4	17	14	10
7005 0513	3/8	3/8	19	26	50
7005 0515	1/2	1/2	24	18	60

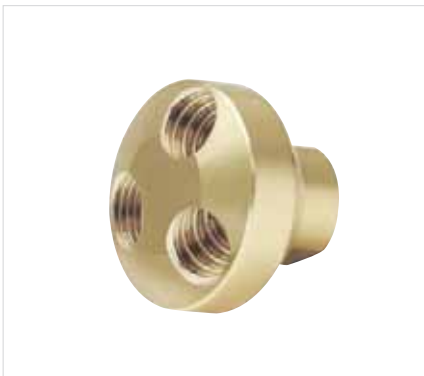
7005 Hose Nipple with Male Thread



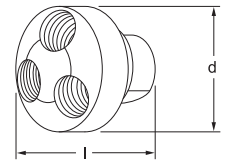
- Spanner Sizes: 17, 19, 24 mm
- Material: Brass

Art. Code	"	mm	mm	l mm	g	
7005 0601	1/4	6	17	36	20	1
7005 0602	1/4	9	17	36	20	1
7005 0603	3/8	9	19	36	30	1
7005 0604	3/8	13	19	40	30	1
7005 0605	1/2	9	24	42	50	1
7005 0606	1/2	13	24	46	50	1

7005 Compressed Air 3-way Separator



- Connection of 3 departure directions
- Material: Brass

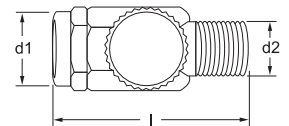


Art. Code	"	mm	d mm	l mm	g	
7005 0701	1/4	19	41	32	160	1

7005 Compressed Air Regulator



- For regulating the air flow volume
- With regulation wheel
- Assembly directly in the access direction
- Completely lockable
- Spanner size: 18 mm
- Max. 14.5 bar
- Material: Brass

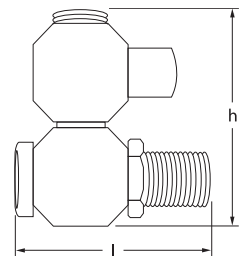


Art. Code	d1 "	d2 "	mm	l mm	g	
7005 0801	1/4	1/4	18	43	80	1

7005 Metal Swivel Joint



- Prevents damages of the compressed air tube by swivel head (360°)
- With compressed air regulator
- Spanner size: 16 mm
- Material: Metall



Art. Code	"	mm	l mm	h mm	g	
7005 0802	1/4	16	35	36	80	1

7100 Padded ear defenders

- According to CE / EN 352-1
- With adjustable and padded ear shells for comfortable wear
- Ear shells with stepless fast adjustment
- Sound level reduction: 25 dB(A)



Art. Code		g	
7100 0001		200	1

7110 Micro fine woven gloves

- According to CE / EN 420 / 388
- Very comfortable design and fit
- Especially breathable fabric
- With PU reinforced gripping palm
- Ideal for working with small parts
- Silicone-free, also suitable for allergy sufferer
- 12 pair / box



Art. Code		g	
7110 0001	L	8	10
7110 0002	XL	9	20
7110 0003	XXL	10	25

7120 Protecting Glasses

- Clear glasses
- With UV protection
- Sportive design
- Extremely substantial frame
- Polycarbonate lens



Art. Code		g	
7120 0001		30	1

7121 Protecting Glasses

- According to EN 166
- Practical for spectacle wearers
- With ventilation holes for clear visibility
- With firm frame
- With ear clip
- Polycarbonate lens



Art. Code		g	
7121 0001		75	1

For machine-operated use.

MATADOR Impact Tools. For quick and safe application.

Made of Chrome-Molybdenum special steel for high resilience and minimal wear.

Manganese phosphated surface for high level of corrosion protection.

With end-to-end hole for the safety pin and with groove for the safety ring according to DIN 3129.



According to international standards: DIN 3129, ISO 2725-2, BS 7794, AMSE B1072.

With MATADOR SmartDrive² Profile: Optimized traction. Better torque transmission. Better protection of tool and screw.



Never confuse hand operation and machine operation.

Sockets are distinguished according to their way of operation, i.e. **hand operation** or **machine operation**.

Sockets for hand operation are **not suitable for the use with electric or air tools** whereas impact sockets can also be used in hand-operation (e.g. for controlled tightening with the help of a torque wrench).

We repeatedly receive claims because sockets that are only suitable for hand-operation were instead used with impact wrenches. As a result they cracked.

Sockets that are suitable for machine operation are made of a special high-performance steel, are thick-walled and coated in another way than standard sockets.

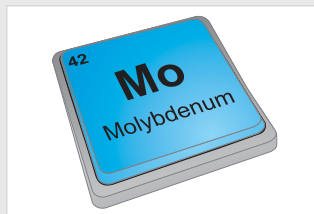


More strength through Molybdenum alloy.

Through adding **Molybdenum** impact sockets reach a **higher yield strength** and solidity than standard sockets made of Chrome Vanadium steel. Also Molybdenum increases the **corrosion resistance** of the tools.

Impact sockets for machine operation must not be nickel-plated and chrome-plated like hand-operated sockets. As they are exposed to considerable force chrome can peel off and cause injuries.

In a special treatment process MATADOR impact sockets are thus manganese phosphated. The manganese surface acts as a protective shield. It reduces wear of the tools and thus increases their durability.



Superior surface thanks to manganese phosphating.

For surface treatment MATADOR uses a special manganese phosphate solution. Together with Chrome-Molybdenum it causes a chemical reaction during which it covers the surface of the metal. During this process a protective coating is created.

The phosphate coating protects the metal against abrasion and heat and as a result reduces the wear of the tools. Even if exposed to heavy load the phosphate coating remains.

Impact sockets with manganese phosphated surface are can longer be used and are more durable than uncoated tools or tools that are or only black-finished (i.e. simply colored).

MATADOR impact sockets. Quality in detail.



The correct use of impact sockets.

According to DIN 3129 impact sockets must have a hole for the safety pin and a groove for the safety ring. A simple ball lock is not sufficient and is not permissible.

During machine operation heavy forces can occur. Without proper security operating tool and socket can easily separate and cause considerable damage.

For this reason MATADOR impact sockets **do not have ball lock** but **have to be secured with pin and ring** according to DIN 3129.

The correct size of the safety pin and safety ring depends on the size of the square drive of the socket. At the end of each tool segment you will find the suitable pins and rings.

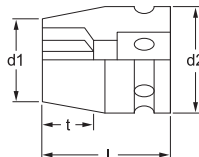
To apply safety pin and ring is really easy and not at all time-consuming: Simply connect socket and operating tool, insert the pin and secure with the ring.

Done. For your safety.

7275 Impact Sockets



- Suitable for all standard electric and air tools
- With square drive as per DIN 3121 - G 6.3 / ISO 1174
- Suitable for hexagon head screws
- With 6-point profile
- With MATADOR SmartDrive Profile
- Standards: DIN 3129 / ISO 2725-2
- Material: Chrome-Molybdenum
- Finish: black phosphated



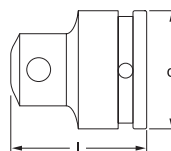
Art. Code	mm	t mm	l mm	d1 mm	d2 mm	g	
7275 0040	4	3.0	25	7.7	13	10	10
7275 0045	4.5	3.0	25	8.5	13	10	10
7275 0050	5	3.0	25	9.0	13	10	10
7275 0055	5.5	3.0	25	9.6	13	10	10
7275 0060	6	3.0	25	10.0	13	12	10
7275 0070	7	3.0	25	11.5	13	12	10
7275 0080	8	4.0	25	12.8	13	12	10
7275 0090	9	5.0	25	13.5	13	14	10
7275 0100	10	8.0	25	15.2	13	16	10
7275 0110	11	8.0	25	16.5	13	22	10
7275 0120	12	9.0	25	17.7	13	24	10
7275 0130	13	9.0	25	19.0	13	26	10
7275 0140	14	9.0	25	20.2	13	34	10



7283 Impact Converter



- For machine-operated impact sockets and adapters
- With square drive as per DIN 3121 - G 6.3 and F 10 / ISO 1174
- Material: Chrome-Molybdenum
- Finish: black phosphated



Art. Code	mm	"	mm	"	l mm	d mm	g	
7283 0001	6.3	1/4	10	3/8	31	13	50	10



7299 Safety Rings and Safety Pins

- Accident-proof safety system for machine-operated sockets and adapters
- For sockets and accessories with square drive as per DIN 3121 - G 6.3 / ISO 1174
- Resistant to heat, coldness and chemical influences

Art. Code		mm	"	mm	d mm	d mm	l mm	g
7299 0001		6.3	1/4	4 - 14	13	3.5		1
7299 0101		6.3	1/4	4 - 14		1.5	10	1



7365 Impact Extension



- For machine-operated sockets and adapters
- With square drive as per DIN 3121 - G 10 and F 10 / ISO 1174

- Material: Chrome-Molybdenum
- Finish: black phosphated



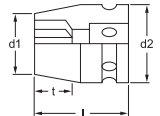
Art. Code	mm	"	mm	"	l mm	l"	d mm	g	
7365 0001	10	3/8	10	3/8	75	3	19	75	5

7375 Impact Sockets



- Suitable for all standard electric and air tools
- With square drive as per DIN 3121 - G 10 / ISO 1174
- Suitable for hexagon head screws
- With 6-point profile
- With MATADOR SmartDrive Profile

- Standards: DIN 3129 / ISO 2725-2
- Material: Chrome-Molybdenum
- Finish: black phosphated



Art. Code	mm	t mm	l mm	d1 mm	d2 mm	g	
7375 0080	8	4.0	28	13.5	19	38	10
7375 0090	9	4.0	28	15.2	19	42	10
7375 0100	10	5.0	28	16.5	19	42	10
7375 0110	11	5.0	28	17.6	19	43	10
7375 0120	12	6.0	28	18.2	19	45	10
7375 0130	13	6.0	30	20.2	22	48	10
7375 0140	14	7.0	30	21.5	22	55	10
7375 0150	15	7.0	30	22.0	22	70	10
7375 0160	16	8.0	30	24.0	22	70	10
7375 0170	17	9.0	30	25.2	22	80	10
7375 0180	18	9.0	30	26.0	22	90	10
7375 0190	19	9.5	30	27.7	22	95	10
7375 0200	20	10.0	30	28.0	22	95	10
7375 0210	21	11.0	30	30.0	22	100	10
7375 0220	22	11.0	30	32.0	22	105	10

7399 Safety Rings and Pins



- Accident-proof safety system for machine-operated sockets and adapters
- For sockets and accessories with square drive as per DIN 3121 - G 10 / ISO 1174

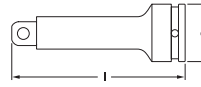
- Resistant to heat, coldness and chemical influences

Art. Code		mm	"	mm	d mm	d mm	l mm	g	
7399 0001	○	10	3/8	6-12	13	3.5		1	10
7399 0002	○	10	3/8	13-22	16	3.5		1	10
7399 0101	▭	10	3/8	6-12		2.5	14	1	10
7399 0102	▭	10	3/8	13-22		2.5	16	1	10

7465 Impact Extensions

- For machine-operated sockets and adapters
- With square drive as per DIN 3121 - G 12.5 and F 12.5 / ISO 1174

- Material: Chrome-Molybdenum
- Finish: black phosphated



1/2 12.5 mm 1/2 12.5 mm

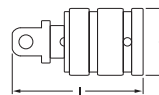
Art. Code	mm	"	mm	"	l mm	l "	d mm	g	
7465 0001	12.5	1/2	12.5	1/2	75	3	25	90	5
7465 0002	12.5	1/2	12.5	1/2	125	5	25	220	5
7465 0003	12.5	1/2	12.5	1/2	250	10	25	440	5



7458 Impact Universal Joint

- For machine-operated sockets and adapters
- With square drive as per DIN 3121 - G 12.5 and F 12.5 / ISO 1174

- Material: Chrome-Molybdenum
- Finish: black phosphated



1/2 12.5 mm 1/2 12.5 mm

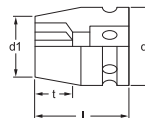
Art. Code	mm	"	mm	"	l mm	d mm	g	
7458 0001	12.5	1/2	12.5	1/2	65	28	160	1



7475 Impact Sockets

- Suitable for all standard electric and air tools
- With square drive as per DIN 3121 - G 12.5 / ISO 1174
- Suitable for hexagon head screws
- With 6-point profile
- With MATADOR SmartDrive Profile

- Standards: DIN 3129 / ISO 2725-2
- Material: Chrome-Molybdenum
- Finish: black phosphated



SMART DRIVE 6 1/2 12.5 mm

Art. Code	mm	t mm	l mm	d1 mm	d2 mm	g	
7475 0100	10	12	38	17.0	25	80	10
7475 0110	11	13	38	18.5	25	80	10
7475 0120	12	14	38	20.0	25	80	10
7475 0130	13	14	38	21.0	25	80	10
7475 0140	14	14	38	22.5	25	80	10
7475 0150	15	16	38	23.0	30	80	10
7475 0160	16	16	38	25.0	30	90	10
7475 0170	17	17	38	26.0	30	100	10
7475 0180	18	18	38	27.3	30	110	10
7475 0190	19	20	38	28.5	30	130	10
7475 0200	20	20	38	30.0	30	135	10
7475 0210	21	22	38	30.0	30	140	10
7475 0220	22	22	38	32.0	30	150	10
7475 0240	24	24	38	34.0	30	180	10
7475 0270	27	27	42	38.0	30	200	10
7475 0300	30	30	42	42.0	30	240	5
7475 0320	32	32	44	44.0	30	260	5
7475 0330	33	33	44	46.0	30	310	5
7475 0340	34	34	44	46.0	30	320	5



7475 Impact Socket Set, 14 pcs.



- Set including the most common impact sockets
- With square drive as per DIN 3121 - G 12.5 / ISO 1174
- Suitable for hexagon head screws
- With 6-point profile
- With MATADOR SmartDrive Profile
- Including compatible safety rings and pins
- With MTS soft foam inlay
- In robust metal case

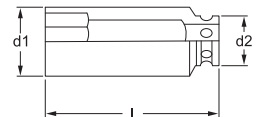
Art. Code		g	
7475 9001		1300	1
		7475 10 - 11 - 13 - 14 - 15 - 17 - 19 21 - 22 - 24 mm	
		7499 1x 10-14 - 1x 15-32 1x 10-14 - 1x 15-32	

7481 Impact Sockets, long type

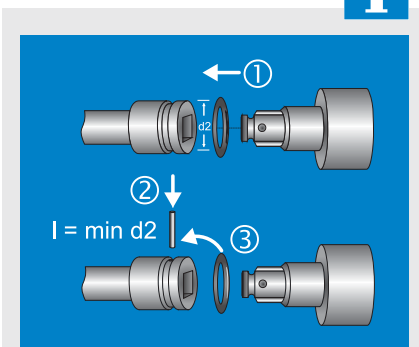


- Suitable for all standard electric and air tools
- With square drive as per DIN 3121 - G 12.5 / ISO 1174
- Suitable for hexagon head screws
- With 6-point profile
- With MATADOR SmartDrive Profile

- Standards: DIN 3129 / ISO 2725-2
- Material: Chrome-Molybdenum
- Finish: black phosphated



Art. Code	mm		l mm	d1 mm	d2 mm	g	
7481 0100	10		78.0	17.5	24	125	5
7481 0110	11		78.0	18.5	24	125	5
7481 0120	12		78.0	19.5	24	135	5
7481 0130	13		78.0	20.5	24	135	5
7481 0140	14		78.0	22.0	24	140	5
7481 0150	15		78.0	24.0	24	145	5
7481 0160	16		78.0	24.0	24	170	5
7481 0170	17		78.0	26.0	26	180	5
7481 0180	18		78.0	28.0	28	185	5
7481 0190	19		78.0	28.0	28	195	5
7481 0200	20		78.0	30.0	30	220	5
7481 0210	21		78.0	30.0	30	220	5
7481 0220	22		78.0	32.0	30	240	5
7481 0240	24		78.0	34.0	30	260	5
7481 0270	27		78.0	38.0	30	300	5
7481 0300	30		78.0	42.0	30	360	5
7481 0320	32		78.0	44.0	30	400	5
7481 0330	33		78.0	46.0	30	440	5
7481 0340	34		78.0	46.0	30	480	5



- Assignment of impact tools and retaining rings and pins

7481 Impact Socket Set, 13 pcs.



- Set including the most common impact sockets, long type
- With square drive as per DIN 3121 - G 12.5 / ISO 1174
- Suitable for hexagon head screws
- With 6-point profile
- With MATADOR SmartDrive Profile
- Including compatible safety rings and pins
- With MTS soft foam inlay
- In robust metal case

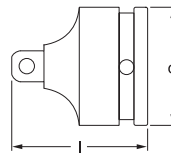


Art. Code	g	
7481 9001	2100	1
	7481 10 - 13 - 15 - 17 - 18 - 19 21 - 22 - 24 mm	
	7499 1x 10-14 - 1x 15-32	
	1x 10-14 - 1x 15-32	

7482 Impact Reducer



- For machine-operated sockets and adapters
- With square drive as per DIN 3121 - G 12.5 and F 10 / ISO 1174
- Material: Chrome-Molybdenum
- Finish: black phosphated

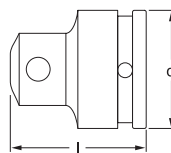


Art. Code	mm	"	mm	"	l mm	d mm	g	
7482 0001	12.5	1/2	10	3/8	38	25	70	1

7483 Impact Converter



- For machine-operated sockets and adapters
- With square drive as per DIN 3121 - G 12.5 and F 20 / ISO 1174
- Material: Chrome-Molybdenum
- Finish: black phosphated



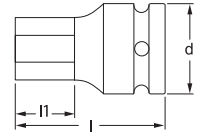
Art. Code	mm	"	mm	"	l mm	d mm	g	
7483 0001	12.5	1/2	20	3/4	48	30	110	1

7478 Impact Screwdriver Bit Sockets (Hexagon)



- Suitable for all standard electric and air tools
- With square drive as per DIN 3121 - G 12.5 / ISO 1174
- Suitable for in-hex screws

- Material: Chrome-Molybdenum
- Finish: black phosphated



Art. Code	mm	l mm	l1 mm	d mm	g	
7478 0050	5	78	45	25	75	10
7478 0060	6	78	45	25	80	10
7478 0080	8	78	45	25	85	10
7478 0100	10	78	45	25	100	10
7478 0120	12	78	45	25	115	10
7478 0140	14	78	45	25	135	10
7478 0170	17	78	45	25	205	10
7478 0190	19	78	45	25	240	10

7478 Impact Screwdriver Bit Socket Set, 6 pcs.



- Suitable for all standard electric and air tools
- With square drive as per DIN 3121 - G 12.5 / ISO 1174
- Suitable for in-hex screws
- With MTS soft foam inlay
- In robust metal case

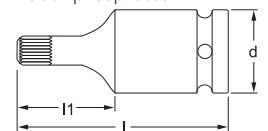
Art. Code		g	
7478 9001	6	700	1
7478 6 - 8 - 10 - 12 - 14 - 17 mm			

7479 Impact Screwdriver Bit Sockets (XZN)



- Suitable for all standard electric and air tools
- With square drive as per DIN 3121 - G 12.5 / ISO 1174
- Suitable for multi-point screws XZN

- Material: Chrome-Molybdenum
- Finish: black phosphated



Art. Code		l mm	l1 mm	d mm	g	
7479 0060	M6	78	45	25	75	10
7479 0080	M8	78	45	25	85	10
7479 0100	M10	78	45	25	95	10
7479 0120	M12	78	45	25	100	10
7479 0140	M14	78	45	25	110	10
7479 0160	M16	78	45	25	120	10

7479 Impact Screwdriver Bit Socket Set, 6 pcs.



- Suitable for all standard electric and air tools
- With square drive as per DIN 3121 - G 12.5 / ISO 1174
- Suitable for multi-point screws XZN
- With MTS soft foam inlay
- In robust metal case

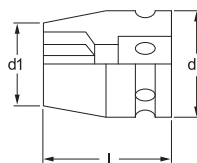
Art. Code				g	
7479 9001				900	1
				7479 M6 - M8 - M10 - M12 - M14 - M16	



7490 Impact Screwdriver Bit Sockets (TORX®)



- Suitable for all standard electric and air tools
- With square drive as per DIN 3121 - G 12.5 / ISO 1174
- Suitable for protruding TORX® head screws
- Material: Chrome-Molybdenum
- Finish: black phosphated



Art. Code			l1 mm	d1 mm	d2 mm	g	
7490 0100	E10		38	13.5	25	62	10
7490 0120	E12		38	15.5	25	62	10
7490 0140	E14		38	17.5	25	70	10
7490 0160	E16		38	19.6	25	74	10
7490 0180	E18		38	21.8	30	108	10
7490 0200	E20		38	23.8	30	116	10
7490 0240	E24		38	28.3	30	148	10



7490 Impact Screwdriver Bit Socket Set, 6 pcs.



- Suitable for all standard electric and air tools
- With square drive as per DIN 3121 - G 12.5 / ISO 1174
- Suitable for protruding TORX® head screws
- With MTS soft foam inlay
- In robust metal case

Art. Code				g	
7490 9001				900	1
				7490 E10 - E12 - E14 - E18 - E20 - E24	

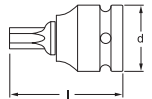


7492 Impact Screwdriver Bit Sockets (TORX®)



- Suitable for all standard electric and air tools
- With square drive as per DIN 3121 - G 12.5 / ISO 1174
- Suitable for recessed TORX® head screws

- Material: Chrome-Molybdenum
- Finish: black phosphated



Art. Code			l mm	d mm	g	
7492 0250	T25		75	25	75	10
7492 0270	T27		75	25	75	10
7492 0300	T30		75	25	83	10
7492 0400	T40		75	25	84	10
7492 0450	T45		75	25	85	10
7492 0500	T50		75	25	88	10
7492 0550	T55		75	25	103	10
7492 0600	T60		75	25	116	10
7492 0700	T70		75	25	135	10

7492 Impact Screwdriver Bit Socket Set, 9 pcs.



- Suitable for all standard electric and air tools
- With square drive as per DIN 3121 - G 12.5 / ISO 1174
- Suitable for recessed TORX® head screws
- With MTS soft foam inlay
- In robust metal case

Art. Code			g	
7492 9001			1100	1
T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60 - T70				

7499 Safety Rings and Safety Pins



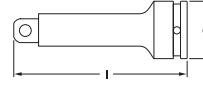
- Accident-proof safety system for machine-operated sockets and adapters
- For sockets and accessories with square drive as per DIN 3121 - G 12.5 / ISO 1174
- Resistant to heat, coldness and chemical influences

Art. Code		mm	"	mm	d mm	d mm	l mm	g	
7499 0001	○	12.5	1/2	10 - 14	19	3.5		1	10
7499 0002	○	12.5	1/2	15 - 34	24	3.5		1	10
7499 0101	▭	12.5	1/2	10 - 14		3.0	20	1	10
7499 0102	▭	12.5	1/2	15 - 34		3.0	25	1	10

7565 Impact Extensions

- For machine-operated sockets and adapters
- With square drive as per DIN 3121 - G 20 and F 20 / ISO 1174

- Material: Chrome-Molybdenum
- Finish: black phosphated



3/4 20 mm 3/4 20 mm

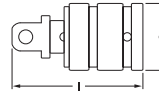
Art. Code	mm	"	mm	"	l mm	l "	d mm	g
7565 0001	20	3/4	20	3/4	150	6	44	700
7565 0002	20	3/4	20	3/4	250	10	44	1060
7565 0003	20	3/4	20	3/4	400	16	44	1600



7558 Impact Universal Joint

- For machine-operated sockets and adapters
- With square drive as per DIN 3121 - G 20 and F 20 / ISO 1174

- Material: Chrome-Molybdenum
- Finish: black phosphated



3/4 20 mm 3/4 20 mm

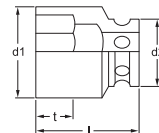
Art. Code	mm	"	mm	"	l mm	d mm	g
7558 0001	20	3/4	20	3/4	90	44	600



7575 Impact Sockets

- Suitable for all standard electric and air tools
- With square drive as per DIN 3121 - G 20 / ISO 1174
- Suitable for hexagon head screws
- With 6-point profile
- With MATADOR SmartDrive Profile

- Standards: DIN 3129 / ISO 2725-2
- Material: Chrome-Molybdenum
- Finish: black phosphated



SMART DRIVE 6 3/4 20 mm

Art. Code	mm	l mm	t mm	d1 mm	d2 mm	g
7575 0170	17	50	7	29	44	310
7575 0180	18	50	7	30	44	320
7575 0190	19	50	9	32	44	325
7575 0220	22	50	14	36	44	345
7575 0240	24	50	14	39	44	350
7575 0270	27	53	14	42	44	370
7575 0300	30	53	15	46	44	410
7575 0320	32	57	15	48	44	450
7575 0330	33	57	18	50	44	480
7575 0340	34	57	18	52	44	490
7575 0360	36	57	18	54	44	520
7575 0380	38	57	18	56	44	540
7575 0410	41	58	22	60	44	610
7575 0460	46	63	24	66	44	710
7575 0500	50	68	30	72	54	850
7575 0550	55	73	30	78	54	1100
7575 0600	60	73	30	84	54	1400
7575 0650	65	85	33	90	54	1700
7575 0700	70	95	35	96	54	1900



7575 Impact Socket Set, 17 pcs.



- Set including the most common impact sockets, short and long type
- With square drive as per DIN 3121 - G 20 / ISO 1174
- Suitable for hexagon head screws
- With 6-point profile
- With MATADOR SmartDrive Profile
- Including compatible safety rings and pins
- With MTS soft foam inlay
- In robust metal case

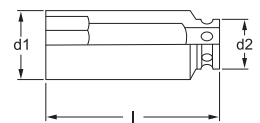
Art. Code		g	
7575 9001		9000	1
		7575 17 - 19 - 22 - 24 - 27 - 30 - 32 mm	
		7581 17 - 19 - 22 - 24 - 27 - 30 - 32 - 33 mm	
		7599 1x 17-46	
		1x 17-46	

METAL

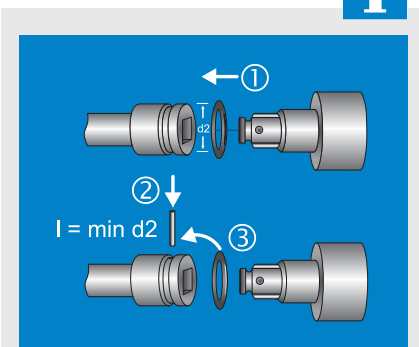
7581 Impact Sockets, long type



- Suitable for all standard electric and air tools
- With square drive as per DIN 3121 - G 20 / ISO 1174
- Suitable for hexagon head screws
- With 6-point profile
- With MATADOR SmartDrive Profile
- Standards: DIN 3129 / ISO 2725-2
- Material: Chrome-Molybdenum
- Finish: black phosphated



Art. Code	mm		l mm	t mm	d1 mm	d2 mm	g	
7581 0170	17		90	12	29	44	500	5
7581 0180	18		90	12	30	44	530	5
7581 0190	19		90	12	32	44	550	5
7581 0220	22		90	19	36	44	590	5
7581 0240	24		90	19	39	44	610	5
7581 0270	27		90	19	42	44	640	5
7581 0300	30		90	19	46	44	700	5
7581 0320	32		90	19	48	44	730	5
7581 0330	33		90	19	50	44	780	5
7581 0340	34		90	19	52	44	810	5
7581 0360	36		90	19	54	44	850	5
7581 0380	38		90	19	56	44	880	5
7581 0410	41		90	56	60	44	960	5
7581 0460	46		90	56	66	44	1200	5
7581 0500	50		95	56	72	54	1400	5



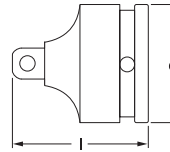
→ Assignment of impact tools and retaining rings and pins

7582 Impact Reducer

1/2 **12.5 mm** **3/4** **20 mm**

- For machine-operated sockets and adapters
- With square drive as per DIN 3121 - G 20 and F 12.5 / ISO 1174

- Material: Chrome-Molybdenum
- Finish: black phosphated



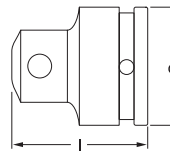
Art. Code	mm	"	mm	"	l mm	d mm	g	
7582 0001	20	3/4	12.5	1/2	58	44	220	1

7583 Impact Converter

1 **25 mm** **3/4** **20 mm**

- For machine-operated sockets and adapters
- With square drive as per DIN 3121 - G 20 and F 25 / ISO 1174

- Material: Chrome-Molybdenum
- Finish: black phosphated



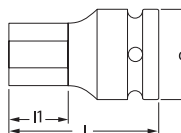
Art. Code	mm	"	mm	"	l mm	d mm	g	
7583 0001	20	3/4	25	1	63	44	450	1

7578 Impact Screwdriver Bit Sockets (Hexagon)

3/4 **20 mm**

- Suitable for all standard electric and air tools
- With square drive as per DIN 3121 - G 20 / ISO 1174
- Suitable for in-hex screws
- With 6-point profile
- With MATADOR SmartDrive Profile

- Standards: DIN 3129 / ISO 2725-2
- Material: Chrome-Molybdenum
- Finish: black phosphated



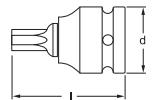
Art. Code	mm	l mm	d mm	g	
7578 0100	10	100	44	430	5
7578 0120	12	100	44	465	5
7578 0140	14	100	44	480	5
7578 0170	17	100	44	545	5
7578 0190	19	100	44	585	5
7578 0220	22	100	44	640	5
7578 0240	24	100	44	685	5
7578 0270	27	100	44	760	5



7592 Impact Screwdriver Bit Sockets (TORX®)



- Suitable for all standard electric and air tools
- With square drive as per DIN 3121 - G 20 / ISO 1174
- Suitable for recessed TORX® head screws
- Material: Chrome-Molybdenum
- Finish: black phosphated



Art. Code	Icon	Icon	Icon	l mm	d mm	g	Icon
7592 0550	T55	M12		100	44	260	1
7592 0600	T60	M14		100	44	330	1
7592 0700	T70	M16		100	44	350	1
7592 0800	T80	M18		100	44	425	1
7592 0900	T90	M20		100	44	460	1
7592 1000	T100	M22		100	44	485	1

7599 Safety Rings and Safety Pins



- Accident-proof safety system for machine-operated sockets and adapters
- For sockets and accessories with square drive as per DIN 3121 - G 20 / ISO 1174
- Resistant to heat, coldness and chemical influences

Art. Code	Icon	mm	"	mm	d mm	d mm	l mm	g	Icon
7599 0001	○	20	3/4	17 - 46	37	5.0		1	10
7599 0002	○	20	3/4	50 - 70	44	5.0		1	10
7599 0101	▭	20	3/4	17 - 46		4.0	35	1	10
7599 0102	▭	20	3/4	50 - 70		4.0	45	1	10

7665 Impact Extensions

- For machine-operated sockets and adapters
- With square drive as per DIN 3120 - G 25 / ISO 1174

- Material: Chrome-Molybdenum
- Finish: black phosphated



Art. Code	mm	"	mm	"	l mm	l"	d mm	g
7665 0001	25	1	25	1	150	6	54	1170
7665 0002	25	1	25	1	330	13	54	2350

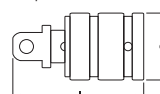
1 25 mm 1 25 mm



7658 Impact Universal Joint

- For machine-operated sockets and adapters
- With square drive as per DIN 3120 - G 25 / ISO 1174

- Material: Chrome-Molybdenum
- Finish: black phosphated



Art. Code	mm	"	mm	"	l mm	d mm	g
7658 0001	25	1	25	1	140	54	1400

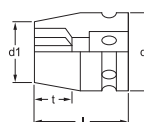
1 25 mm 1 25 mm



7675 Impact Sockets

- Suitable for all standard electric and air tools
- With square drive as per DIN 3120 - G 25 / ISO 1174
- Suitable for hexagon head screws
- With 6-point profile
- With MATADOR SmartDrive Profile

- Standards: DIN 3129 / ISO 2725-2
- Material: Chrome-Molybdenum
- Finish: black phosphated



Art. Code	mm	l mm	t mm	d1 mm	d2 mm	g
7675 0190	19	58	12	36	54	510
7675 0220	22	58	12	39	54	530
7675 0240	24	58	14	42	54	560
7675 0270	27	58	14	46	54	580
7675 0300	30	62	16	49	54	610
7675 0320	32	62	19	52	54	660
7675 0330	33	62	19	54	54	710
7675 0340	34	62	19	54	54	710
7675 0360	36	65	19	56	54	720
7675 0380	38	62	20	58	54	740
7675 0410	41	68	23	61	54	800
7675 0460	46	72	23	68	54	1010
7675 0500	50	75	26	74	54	1180
7675 0550	55	83	28	80	54	1480
7675 0600	60	87	31	87	54	1750
7675 0650	65	90	32	92	54	1850
7675 0700	70	93	35	96	54	2500
7675 0750	75	95	40	99	86	2800
7675 0800	80	95	47	112	86	2900
7675 0850	85	95	47	118	86	3200
7675 0900	90	100	47	124	86	3800

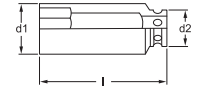
SMART DRIVE 6 1 25 mm



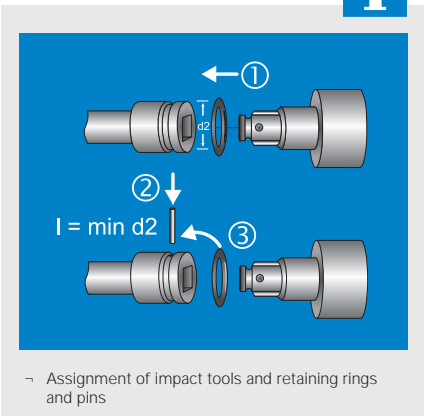
7681 Impact Sockets, long type



- Suitable for all standard electric and air tools
- With square drive as per DIN 3121 - G 25 / ISO 1174
- Suitable for hexagon head screws
- With 6-point profile
- With MATADOR SmartDrive Profile
- Standards: DIN 3129 / ISO 2725-2
- Material: Chrome-Molybdenum
- Finish: black phosphated



Art. Code	mm	l mm	t mm	d1 mm	d2 mm	g	
7681 0190	19	90	14	36	54	800	5
7681 0220	22	90	16	39	54	800	5
7681 0240	24	90	16	42	54	840	5
7681 0270	27	90	19	46	54	890	5
7681 0300	30	90	19	49	54	930	5
7681 0320	32	90	19	52	54	950	5
7681 0330	33	90	23	54	54	1000	5
7681 0340	34	90	23	54	54	1000	5
7681 0360	36	90	23	56	54	1050	5
7681 0380	38	95	23	58	54	1150	5
7681 0410	41	95	40	61	54	1220	5
7681 0460	46	95	40	68	54	1350	5
7681 0500	50	105	40	74	54	1600	5
7681 0550	55	105	52	80	54	1900	5
7681 0600	60	105	52	87	54	2100	5
7681 0650	65	115	60	92	54	2350	5
7681 0700	70	120	60	97	54	2650	5
7681 0750	75	125	60	104	86	4000	5
7681 0800	80	135	75	112	86	4500	5



7682 Impact Reducer



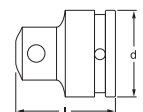
- For machine-operated sockets and adapters
- With square drive as per DIN 3121 - G 25 and F 20 / ISO 1174
- Material: Chrome-Molybdenum
- Finish: black phosphated

Art. Code	mm	"	mm	"	l mm	d mm	g
7682 0001	25	1	20	3/4	77	54	650

7683 Impact Converter



- For machine-operated sockets and adapters
- With square drive as per DIN 3121 - G 25 and F 40 / ISO 1174
- Material: Chrome-Molybdenum
- Finish: black phosphated



Art. Code	mm	"	mm	"	l mm	d mm	g
7683 0001	25	1	40	1.1/2	85	54	1000

7699 Safety Rings and Safety Pins

1 25 mm

- Accident-proof safety system for machine-operated sockets and adapters
- For sockets and accessories with square drive as per DIN 3121 - G 25 / ISO 1174
- Resistant to heat, coldness and chemical influences

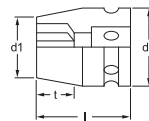
Art. Code		mm	"	mm	d mm	d mm	l mm	g	
7699 0001		25	1	19 - 70	44	5.5		1	10
7699 0002		25	1	75 - 90	75	5.5		1	10
7699 0101		25	1	19 - 70		5.0	45	1	10
7699 0102		25	1	75 - 90		5.0	75	1	10



7775 Impact Sockets

SMART DRIVE 6 1 1/2 40 mm

- Suitable for all standard electric and air tools
 - With square drive as per DIN 3121 - G 40 / ISO 1174
 - Suitable for hexagon head screws
 - With 6-point profile
 - With MATADOR SmartDrive Profile
- Standards: DIN 3129 / ISO 2725-2
 - Material: Chrome-Molybdenum
 - Finish: black phosphated



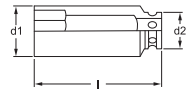
Art. Code	mm	l mm	t mm	d1 mm	d2 mm	g	
7775 0410	41	80	36	70	84	2.4	1
7775 0460	46	84	40	76	84	2.4	1
7775 0500	50	87	43	81	84	2.4	1
7775 0550	55	90	47	86	86	2.7	1
7775 0600	60	95	51	94	86	3.1	1
7775 0650	65	100	56	99	86	3.5	1
7775 0700	70	105	61	105	86	4.0	1
7775 0750	75	110	66	112	86	4.6	1
7775 0800	80	110	66	119	86	5.3	1
7775 0850	85	120	75	125	86	6.4	1
7775 0900	90	120	75	131	86	6.7	1
7775 0950	95	130	83	141	102	8.7	1
7775 1000	100	130	83	146	102	9.0	1
7775 1050	105	130	83	151	102	9.4	1
7775 1100	110	140	92	157	102	10.0	1
7775 1150	115	140	92	163	102	10.6	1
7775 1200	120	140	90	169	102	11.2	1
7775 1250	125	140	90	175	102	11.8	1
7775 1300	130	150	100	180	102	12.9	1
7775 1350	135	150	100	186	102	13.6	1
7775 1400	140	150	100	192	102	15.0	1
7775 1450	145	150	97	198	102	17.2	1
7775 1500	150	150	97	203	102	18.0	1
7775 1550	155	150	97	209	102	19.0	1



7781 Impact Sockets, long type



- Suitable for all standard electric and air tools
- With square drive as per DIN 3121 - G 40 / ISO 1174
- Suitable for hexagon head screws
- With 6-point profile
- With MATADOR SmartDrive Profile
- Standards: DIN 3129 / ISO 2725-2
- Material: Chrome-Molybdenum
- Finish: black phosphated



Art. Code	mm	l mm	t mm	d1 mm	d2 mm	g	
7781 0410	41	150	106	70	84	3.7	1
7781 0460	46	150	106	76	84	3.9	1
7781 0500	50	150	106	81	84	3.9	1
7781 0550	55	150	106	86	86	4.1	1
7781 0600	60	150	106	94	86	4.7	1
7781 0650	65	150	106	99	86	4.9	1
7781 0700	70	170	126	105	86	6.4	1
7781 0750	75	170	126	112	86	6.9	1
7781 0800	80	170	126	119	86	7.6	1
7781 0850	85	180	135	125	86	9.4	1
7781 0900	90	180	135	131	86	10.0	1
7781 0950	95	190	143	141	102	12.1	1
7781 1000	100	190	143	146	102	12.6	1
7781 1050	105	190	143	151	102	13.2	1
7781 1100	110	200	152	157	102	14.5	1
7781 1150	115	200	152	163	102	15.1	1
7781 1200	120	200	150	169	102	16.0	1
7781 1250	125	200	136	175	102	17.1	1
7781 1300	130	210	145	180	102	18.6	1
7781 1350	135	210	144	186	102	19.5	1
7781 1400	140	210	142	192	102	20.8	1
7781 1450	145	210	141	198	102	20.5	1
7781 1500	150	210	139	203	102	22.3	1
7781 1550	155	210	138	209	102	23.4	1



7799 Safety Rings and Safety Pins



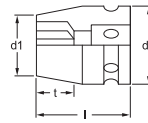
- Accident-proof safety system for machine-operated sockets and adapters
- For sockets and accessories with square drive as per DIN 3121 - G 40 / ISO 1174
- Resistant to heat, coldness and chemical influences

Art. Code	mm	"	mm	d mm	d mm	l mm	g	
7799 0001	40	1.1/2	41 - 90	75	10		1	10
7799 0002	40	1.1/2	95 - 155	90	12		1	10
7799 0101	40	1.1/2	41 - 90		6	74	1	10
7799 0102	40	1.1/2	95 - 155		6	90	1	10

7875 Impact Sockets



- Suitable for all standard electric and air tools
- With square drive as per DIN 3121 - G 63 / ISO 1174
- Suitable for hexagon head screws
- With 6-point profile
- Standards: DIN 3129 / ISO 2725-2
- Material: Chrome-Molybdenum
- Finish: black phosphated



Art. Code	mm	l mm	t mm	d1 mm	d2 mm	g	
7875 0600	60	130	68	100	137	9.3	1
7875 0650	65	130	68	104	137	9.3	1
7875 0700	70	130	68	110	137	9.3	1
7875 0750	75	130	68	118	137	9.3	1
7875 0800	80	130	68	126	137	9.3	1
7875 0850	85	130	68	133	137	9.3	1
7875 0900	90	140	78	143	137	10.5	1
7875 0950	95	140	78	148	137	10.8	1
7875 1000	100	140	78	153	137	11.1	1
7875 1050	105	150	88	158	137	12.1	1
7875 1100	110	150	88	166	137	13.0	1
7875 1150	115	150	88	174	137	13.9	1
7875 1200	120	150	88	181	160	16.9	1
7875 1250	125	150	88	187	160	17.5	1
7875 1300	130	170	106	195	160	21.5	1
7875 1350	135	170	106	202	160	22.5	1
7875 1400	140	170	106	208	160	23.0	1
7875 1450	145	170	106	214	160	24.0	1
7875 1500	150	170	106	219	160	24.5	1
7875 1550	155	180	115	224	160	29.0	1
7875 1600	160	180	115	229	160	31.0	1
7875 1650	165	180	115	235	160	32.0	1
7875 1700	170	180	115	240	160	32.5	1
7875 1750	175	180	115	247	160	34.5	1
7875 1800	180	225	143	253	160	46.0	1
7875 1850	185	225	143	258	160	47.0	1
7875 1900	190	225	143	264	160	48.0	1
7875 2000	200	225	143	276	160	51.0	1
7875 2100	210	225	143	287	160	57.0	1
7875 2150	215	225	143	293	160	63.0	1
7875 2350	235	225	143	316	160	68.0	1
7875 2550	255	225	143	338	160	70.0	1



7899 Safety Rings and Safety Pins



- Accident-proof safety system for machine-operated sockets and adapters as per DIN 3121 - G 63 / ISO 1174
- For sockets and accessories with square drive
- Resistant to heat, coldness and chemical influences

Art. Code	mm	"	mm	d mm	d mm	l mm	g	
7899 0001	63	2.1/2	60 - 115	125	12		5	10
7899 0002	63	2.1/2	120 - 255	147	12		5	10
7899 0101	63	2.1/2	60 - 115		8	125	5	10
7899 0102	63	2.1/2	120 - 255		8	145	5	10



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- 198 Long Flat Nose Plier
- 198 Chain Nose Pliers, straight
- 198 Chain Nose Pliers, angled 45°



Sidecutters.

- 199 Side Cutters
- 199 Heavy Duty Side Cutter



Cable cutters.

- 200 End Cutting Nipper
- 201 Lever Bolt Cutter
- 201 Tower Pincers
- 201 Pincers



Pliers for Electrician's.

- 202 Electrician's Side Cutter „4 in 1“
- 202 Fully automatic wire stripping plier
- 202 Wire Stripping Plier
- 203 Crimping Pliers for Cable Links
- 203 Cable Cutter
- 203 Electronic Nose Plier
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Water Pump Pliers.

- 204 Water Pump Pliers
- 204 Water Pump Pliers PRO



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- 207 Pliers Assortment
- 207 Pliers Assortment, 3-pieces
- 207 Pliers Assortment, 4-pieces



Circlip Pliers.

- 208 Circlip Pliers (A)
- 208 Circlip Pliers (B)
- 209 Circlip Pliers (C)
- 209 Circlip Pliers (D)
- 209 Assortment Circlip Pliers



Grip Pliers.

- 210 Universal Grip Pliers
- 210 Universal Grip Pliers
- 210 Langbeck Grip Plier
- 211 Axial Grip Plier, Type L
- 211 C-Clamp Grip Plier





Pliers.

Be a MATADOR.



The MATADOR pliers. Simply innovative.



2-component sleeves are more than 2 colors.

Comprehensive research into the gripping characteristics and flow of movement when working with pliers have shown that the use of different materials **can considerably relieve the muscles in the hand.**

MATADOR 2-component handles thus consist of hard and soft plastic materials making it possible to **work without fatigue** to a large extent.

The **blue, hard component** allows a **forceful and quick gripping with low friction.** The **black soft TPE component** by contrast has an **anti-slip effect** and allows powerful working.

Innovative functions in the details:



→ Integrated ring spanner



→ Aggressive design



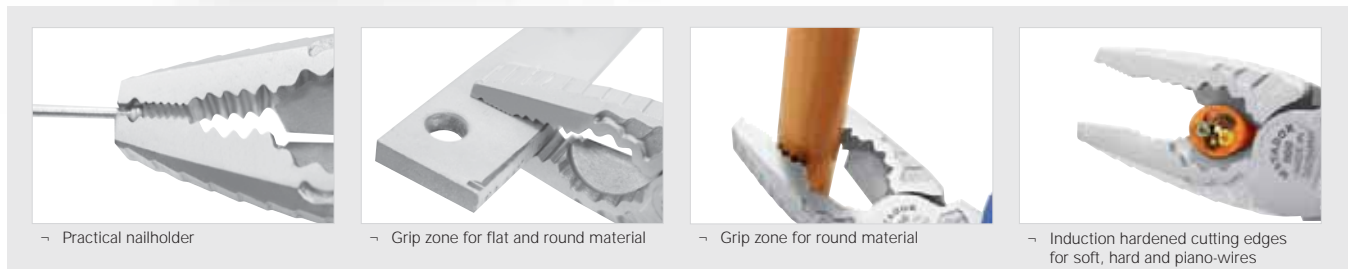
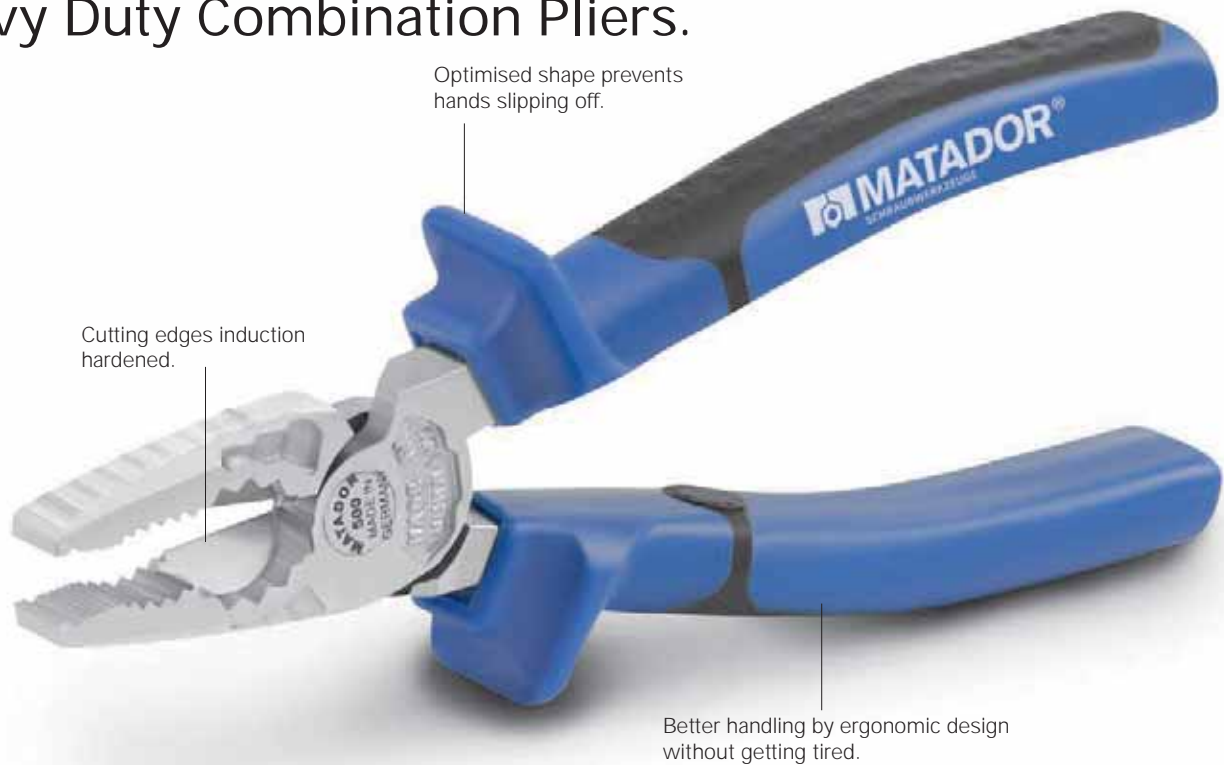
→ Combination of useful features

Keep it short and simple: The pliers pictograms.

	Pliers cutting edge tube		Jaw form range
	Pliers cutting edge soft wire		Jaw form range
	Pliers cutting edge medium-hard wire		Jaw form range
	Pliers cutting edge hard wire		Jaw form range
	Pliers cutting edge piano wire		Jaw form mouth wide
	Pliers cutting edge round steel		Jaw form mouth length
	Pliers cutting edge cable		Jaw form serrated file-cut
	Maximum cable cross-section		Jaw form flat file-cut
	Minimum cable cross-section		Internal retaining ring
	Pliers cutting edge wire rope		Smallest Ø
	Jaw form		Biggest Ø
	Flat round jaws		External retaining ring
	Flat jaws		Smallest Ø
	Concave jaws		Biggest Ø
	V-shaped jaws		Cutting form
	Round jaws		Cutting form with semi bevel
	Jaw form angle		Cutting form with bevel
	Pliers cutting edge material thickness		Cutting form with center cutting
	Pliers cutting edge engineering steel		Cutting form wire fitting spring
	Pliers cutting edge stainless steel		Ø Tip

For powerfull grip.

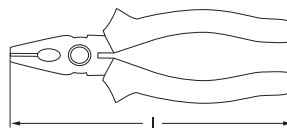
Heavy Duty Combination Pliers.



0500 Heavy Duty Combination Pliers



- American pattern
 - For cutting hard and soft wires
 - Cutting edges inductively hardened
 - Asymmetric inside jaws for better grip on the workpiece
 - Gripping zones for flat and round materials
 - With Nail- & wire holder
 - Integrated ring spanner
 - Power transmission with optimum leverage for easy and effortless work
 - With ergonomically shaped 2-component sleeves
- Standards: DIN ISO 5746
 - Material: Tool steel
 - Surface: Matt chrome finish



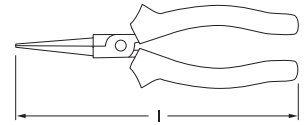
Art. Code	I mm	I"	□	△	○	◐	◑	⊙	⬡	⚖	📦
Art. Code	I mm	I"			mm	mm	mm	mm	mm	g	
0500 0165	165	6.1/2	□	△	4.0	3.1	2.0	10	15	200	6
0500 0180	180	7	□	△	5.2	3.4	2.2	12	18	255	6
0500 0205	205	8	□	△	5.9	3.8	2.5	13	20	285	6

0520 Long Round Nose Pliers



- For gripping and bending
- Serrated inside jaws
- With long round jaws
- With ergonomically shaped 2-component sleeves

- Standards: DIN ISO 5745
- Material: Tool steel
- Surface: Matt chrome finish



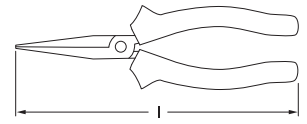
Art. Code	l mm	l "					g	
0520 0160	160	6.1/4						
							150	6

0525 Long Flat Nose Pliers



- For holding and bending
- Serrated inside jaws
- With long flat jaws
- With ergonomically shaped 2-component sleeves

- Standards: DIN ISO 5745
- Material: Tool steel
- Surface: Matt chrome finish



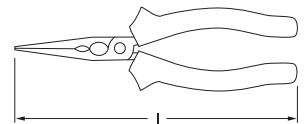
Art. Code	l mm	l "					g	
0525 0160	160	6.1/4						
							160	6

0585 Chain Nose Pliers, straight



- According to DIN / ISO 5745
- Long, straight flat-round jaws
- With cutting edges and burner hole
- Serrated gripping faces
- For cutting hard and soft wires
- For holding and bending

- Material: High grade tool steel C 45
- Surface: Matt chrome finish



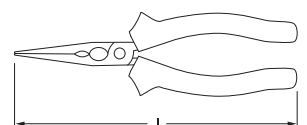
Art. Code	l mm	l "					mm	mm	mm	mm	g	
0585 0170	170	6.3/4										
							2.5	1.6	-	15	170	6
0585 0205	205	8										
							3.9	3.2	2.2	18	215	6

0586 Chain Nose Pliers, angled 45°



- According to DIN / ISO 5745
- Long, 45° angled, flat-round jaws
- With cutting edges and burner hole
- Serrated gripping faces
- For cutting hard and soft wires
- For holding and bending

- Material: High grade tool steel C 45
- Surface: Matt chrome finish



Art. Code	l mm	l "					mm	mm	mm	mm	g	
0586 0205	205	8										
							3.9	3.2	2.2	18	215	6

Cutting pliers.



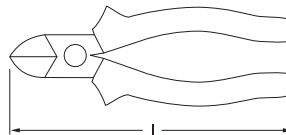
220 N/m ² soft wire	750 N/m ² medium-hard wire	1.800 N/m ² hard wire	2.300 N/m ² piano wire
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0532 Side Cutters

- For cutting hard and soft wires
- Precision cutting edge for the finest wires
- Cutting edges inductively hardened
- Cutting edge hardness approx 62 HRC
- Power transmission with optimum leverage for easy and effortless work
- With ergonomically shaped 2-component sleeves

- Standards: DIN ISO 5749
- Material: Special tool steel
- Surface: Matt chrome finish



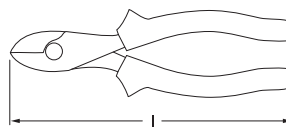
Art. Code	I mm	I"	Icon	mm	mm	mm	mm	g	Icon
0532 0145	145	5.3/4	Green checkmark	5	2.5	1.7	8	180	6
0532 0160	160	6.1/4	Green checkmark	6	3.5	2.0	11	210	6
0532 0180	180	7	Green checkmark	7	4.0	2.5	13	265	6



0530 Heavy Duty Side Cutters

- Precision cutting edge for piano wire (D2 quality)
- Cutting edges inductively hardened
- Power transmission with optimum leverage for easy and effortless work
- With ergonomically shaped 2-component sleeves

- Standards: DIN ISO 5749
- Material: Special tool steel
- Surface: Matt chrome finish



Art. Code	I mm	I"	Icon	mm	mm	mm	g	Icon
0530 0180	180	7	Green checkmark	3.7	2.6	2.2	280	6
0530 0200	200	8	Green checkmark	4.0	2.8	2.5	305	6
0530 0240	240	9.1/2	Green checkmark	4.5	3.5	3.0	420	6



End cutting Nippers.



→ Also suitable for binding (lichens) and cutting of binding wires



→ Almost flush and frontale cut from bolts and nails



→ High cutting performance

0535 End Cutting Nippers

2K



- For cutting hard and soft wires
- Also for tying steel mesh
- Cutting edges inductively hardened
- Power transmission with optimum leverage for easy and effortless work
- With ergonomically shaped 2-component sleeves

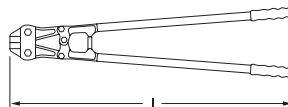
- Standards: DIN ISO 5748
- Material: Special tool steel
- Surface: Matt chrome finish

Art. Code	l mm	l"						
0535 0160	160	6.1/2		4.0	2.8	2.0	220	6
0535 0180	180	7		4.0	3.0	2.4	250	6
0535 0200	200	8		4.0	3.5	2.6	320	6

0527 Lever Bolt Cutters

- Forged
- Cutting edges inductively hardened
- With replaceable, screwed cutter head
- Tremendous cutting performance thanks to optimum leverage
- Re-adjustable screw-joint

- Standards: DIN ISO 9242
- Material: Reinforced tube steel / Chrome Vanadium steel



Art. Code	l mm	l"	HRC 10	HRC 40	HRC 44					
0527 0018	460	18	8	7	5		7	7	1670	1
0527 0024	620	24	9	8	7		9	8	2370	1
0527 0030	780	30	11	9	8		11	9	4570	1
0527 0036	900	36	13	11	9		13	11	4980	1

Art. Code	Spare heads for			
0527 0011	0527 0018		420	1
0527 0012	0527 0024		770	1
0527 0013	0527 0030		1450	1
0527 0014	0527 0036		1450	1



0544 Tower Pincers

- Fast, reliable and cost-effective drilling and cutting of wires in a single operation
- For fixing reinforcement steel with binding wire from a roll
- Cutting edges inductively hardened

- Material: Tool steel



Art. Code	l mm	l"						
0544 0220	220	8.3/4		3.2	1.8	315	6	
0544 0250	250	10		3.4	2.0	380	6	
0544 0280	280	11		3.6	2.2	485	6	



0545 Pincers

- For gripping and removing screws, nails, fixings etc. as well as for cutting metal rods and wires
- Cutting edges inductively hardened

- Standards: DIN ISO 9243
- Material: Tool steel



Art. Code	l mm	l"					
0545 0160	160	6.1/4		1.8		210	6
0545 0180	180	7		2.0		310	6
0545 0210	210	8.1/4		2.2		380	6
0545 0250	250	10		2.2		530	6



Special pliers for Electrician's and electronics.

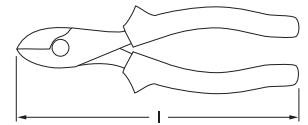
0553 Electrician's Side Cutter „4 in 1“

2K

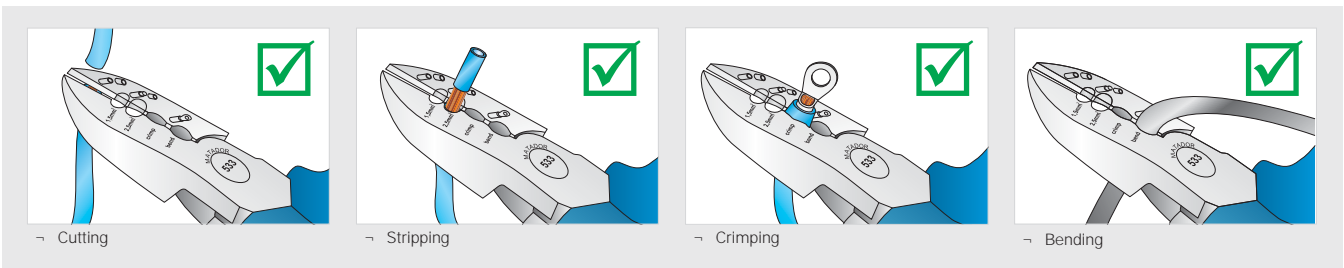


- Integrates all 4 functions: cutting - stripping - crimping - bending into one tool
- With stripping function for single and multi-stranded conductors with 1.5 mm² and 2.5 mm² conductor cross-section
- Precision cutting edge for the finest wires
- Power transmission with optimum leverage for easy and effortless work
- With ergonomically shaped 2-component sleeves

- Material: Special tool steel
- Surface: Matt chrome finish



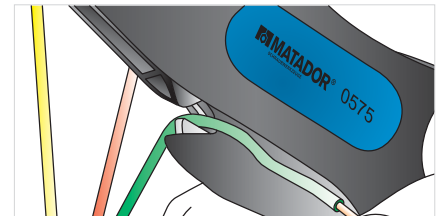
Art. Code	l mm	l "		mm	mm	mm ²	mm	mm	g	
0553 0180	190	7.1/2		2.0	1.0	4.0	2.5	1.5	285	6



0575 Fully automatic wire stripping pliers



- Wire Stripping Plier with fully automatic adjustment
- Fully insulated
- Integrated side cutting nipper
- In black plastic housing



Art. Code	l mm	l "	mm		mm ²	g	
0575 0165	165	6.1/4			0.2 - 6.0	105	1

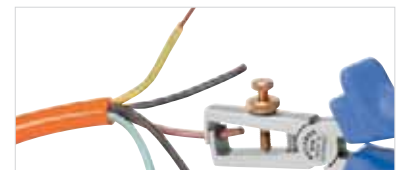
0576 Wire Stripping Pliers

2K



- For stripping solid, stranded or finely stranded conductors with standard insulation
- With V-shaped cutting edge for wires and strands up to a max. of Ø 5 mm or 10 mm² conductor cross section
- With adjustable screw for easy adjustment to the required wire or strand diameter
- With opening spring
- With ergonomically shaped 2-component sleeves

- Material: Tool steel
- Surface: Matt chrome finish

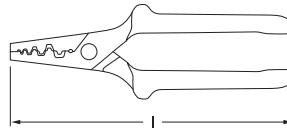


Art. Code	l mm	l "	mm	mm	mm ²	g	
0576 0160	160	6.1/4		5	10	185	6

0572 Crimping Pliers for Cable Links

- For End-sleeves according to DIN 46228
- Drop-forged
- For non-insulated and insulated endsleeves
- Improved leverage for easier working

- Material: Tool steel,
PVC-coated handles



Art. Code	l mm	l"	mm	mm ²	g	
0572 0010	190	7.1/2		0.5 - 16.0	250	1

0829 Cable Cutter

- For crimpfree stripping and cutting copper and aluminium cable
- Not suitable for steel wire, aluminium alloys and hard-drawn copper conductors
- Precision cutting edge for a smooth and clean cut without any burrs
- Improved cutting geometry for simple cutting and higher operating times
- Re-adjustable screw-join
- With ergonomically shaped 2-component sleeves

- Material: Special tool steel
- Surface: Matt chrome finish



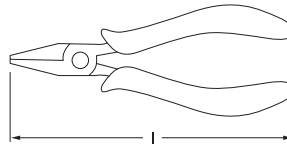
2K

Art. Code	l mm	l"	mm	mm ²	g	
0829 0160	160	6.1/4	16	50	175	6

0560 Electronic Nose Pliers

- For gripping small parts and forming wires
- Smooth inside jaws, edges rounded
- With lap-joint and opening spring
- Tight-fit joint movement
- Handles with ergonomically shaped ESD multi-component sleeves, electrically conductive

- Material: Special tool steel, forged,
oil-hardened



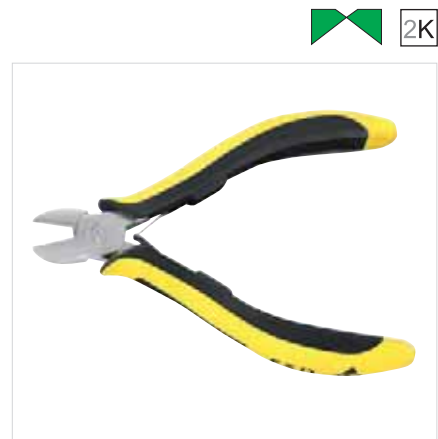
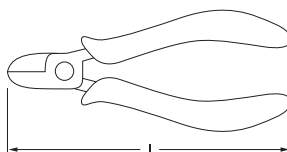
2K

Art. Code	l mm	l"	mm	g	
0560 0001	120	4.3/4	Ø	80	5

0561 Electronic Side Cutter

- Most popular shape for assembly work, trimming printed circuit boards, also for radio and telephone work
- Precision cutting edge for the finest wires
- Cutting edges inductively hardened
- With box-joint and opening spring
- Tight-fit joint movement
- Handles with ergonomically shaped ESD multi-component sleeves, electrically conductive

- Material: Special tool steel, forged,
oil-hardened



2K

Art. Code	l mm	l"	mm	mm	mm	g	
0561 0001	115	4.1/2	1.2	0.6	0.4	100	5

Water Pump Pliers.

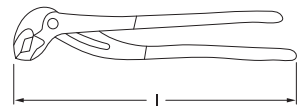


0556 Water Pump Pliers



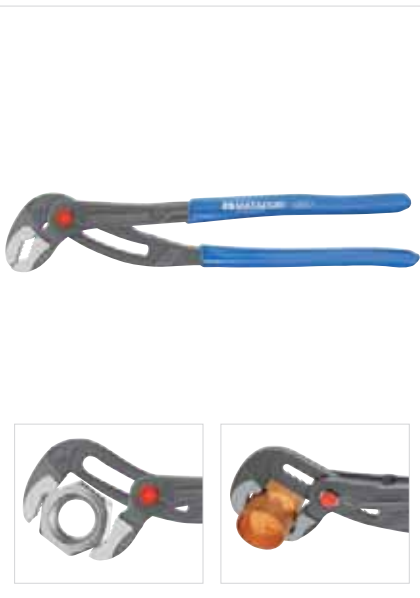
- The indestructible water pump pliers, with safety box joint for highest stress
- Gripping capacity 40% above ISO by means of arch-shaped pitch adjustment
- Optimum jaw geometry with self-locking serration
- Cogs additionally induction hardened
- Box joint with wide guide surfaces
- Ideal fulcrum, minimum effort
- Coated handles

- Standards: DIN ISO 8976
- Material: Chrome Vanadium steel



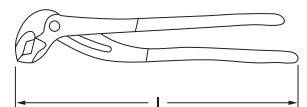
Art. Code	l mm	l"	mm	.	g	
0556 0180	180	7	40	1.1/4	155	1
0556 0240	240	9.1/2	50	2.1/4	350	1
0556 0400	400	15.3/4	100	3.1/2	1025	1

0557 Water Pump Pliers PRO



- With automatic precise adjustment
- Compact, narrow shape for working in smallest spaces in positions otherwise inaccessible
- With nail and wire holder
- Gripping capacity 40% above ISO by means of arch-shaped pitch adjustment
- Optimum jaw geometry with self-locking serration
- Cogs additionally induction hardened
- Box joint with wide guide surfaces
- Remains locked even after opening the pliers
- Fast adaption of the work piece thanks to innovative ratchet adjustment
- Coated handles

- Standards: DIN ISO 8976
- Material: Chrome Vanadium steel



Art. Code	l mm	l"	mm	.	g	
0557 0250	250	10	50	2.1/4	360	1
0557 0320	320	12.1/2	75	3	640	1
0557 0400	400	15.3/4	100	3.1/2	1255	1

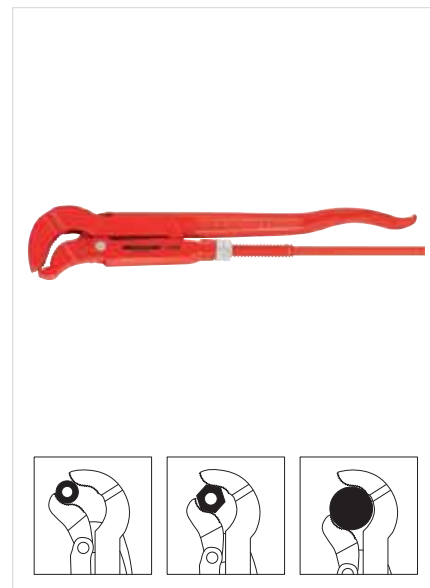
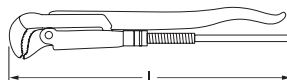
Apply a powerful grip.

Pipe Wrenches.



0596 Pipe Wrenches "S shaped"

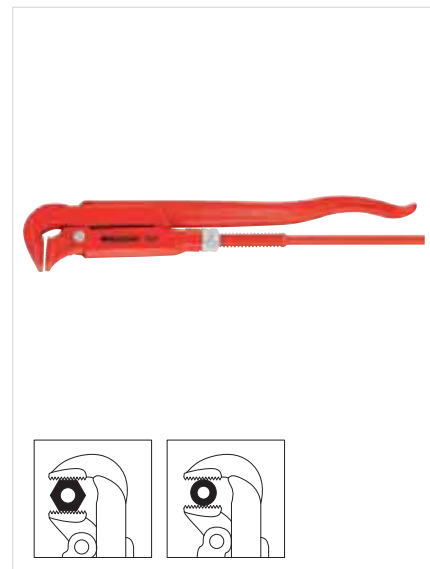
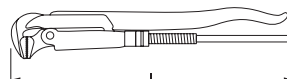
- The classic elbow pipe wrench
- Slim, S-shaped jaws 45°
- Touches the tube on three points
- Infinitely variable
- Drop-forged and oil-hardened
- Standards: DIN ISO 5234
- Material: Chrom Vanadium Steel
- Surface: Red powder coated



Art. Code	"	mm	l mm	g	
0596 0001	1/2	0 - 35	265	405	1
0596 0002	1	0 - 42	315	745	1
0596 0003	1.1/2	0 - 60	420	1380	1
0596 0004	2	0 - 70	530	2750	1
0596 0005	3	10 - 110	680	4295	1

0597 Pipe Wrenches „90°“

- Swedish pattern
- Infinitely variable
- Induction-hardened gripping surface, with reinforced sleeve
- Touches the tube on three points
- Self-grip function on the workpiece
- Drop-forged and oil-hardened
- Standards: DIN ISO 5234
- Material: Chrom Vanadium Steel
- Surface: Red powder coated



Art. Code	"	mm	l mm	g	
0597 0001	1	0 - 42	305	785	1
0597 0002	1.1/2	0 - 60	405	1400	1
0597 0003	2	0 - 70	560	2690	1
0597 0004	3	10 - 105	650	3450	1
0597 0005	4	10 - 130	750	4940	1

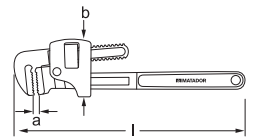
Pipe Wrenches.



0598 Pipe Wrenches

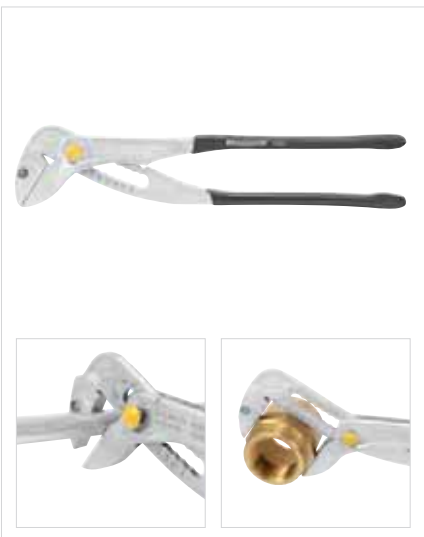


- Type „Stillson“
- Heavy-duty pattern
- Grounded heads
- Infinitely adjustable
- Drop forged



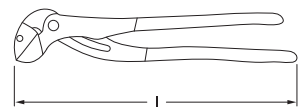
Art. Code	l mm	l "	a mm	b mm	g	
0598 0008	200	8	0 - 27	50	250	1
0598 0010	250	10	0 - 34	64	600	1
0598 0012	300	12	0 - 43	68	700	1
0598 0014	350	14	0 - 48	82	1100	1
0598 0018	450	18	0 - 60	93	1750	1
0598 0024	600	24	0 - 73	111	3500	1
0598 0036	900	36	0 - 102	134	6250	1

0558 Special Mounting Plier



- Pliers Wrench
- Box joint
- Jaws moveable with parallel grip
- Quick one hand use
- PVC-coated handles

- Material: Chrome Vanadium steel
- Surface: Matt chrome finish



Art. Code	l mm	l "	a mm	g	
0558 0001	250	20/36	12 - 53	375	5

Practical and proven sets.

Pliers Assortment.

0500 Pliers Assortments M



- Pliers Assortment, in practical, transparent polypropylene box: robust packaging, stackable and easy to stock, reclosable, reusable and with hanging hole for tools panels

Art. Code		g	
0500 9030		810	1
Content	0500 180 mm 0530 180 mm 0585 205 mm		
0500 9031		810	1
Content	0500 180 mm 0530 180 mm 0586 205 mm		



0556 Pliers Assortment L



- Pliers Assortment, in practical, transparent polypropylene box: robust packaging, stackable and easy to stock, reclosable, reusable and with hanging hole for tools panels

Art. Code		g	
0556 9030		970	1
Content	0500 180 mm 0530 180 mm 0556 240 mm		

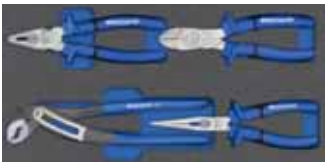


0556 Pliers Assortments XL

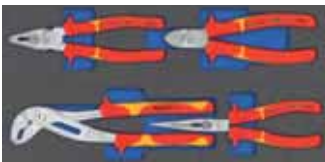


- Pliers Assortment, in practical, transparent polypropylene box: robust packaging, stackable and easy to stock, reclosable, reusable and with hanging hole for tools panels


Art. Code		g	
0556 9040		1270	1
Content	0500 180 mm 0530 180 mm 0585 205 mm 0556 240 mm		
0556 9041		1270	1
Content	0500 180 mm 0530 180 mm 0586 205 mm 0556 240 mm		

384



384



345

For assembly from circlips.
Circlip Pliers.



Drop-forged precision tips, almost unbreakable, anti-slip.

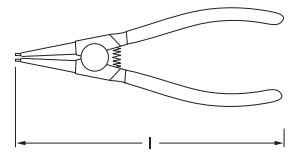


0578 Circlip Pliers (A)



- For fitting external circlips on shafts according to DIN 471 and DIN 983
- Forged
- With straight jaws and opening spring
- Anti-slip, twisted precision tips
- Coated handles

- Standards: DIN ISO 5254-A
- Material: Chrome Vanadium steel



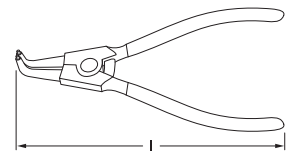
Art. Code	Size	l mm	l"	mm	mm	Ø mm	g	
0578 0000	A0	135	5.1/4	3	10	0.9	100	6
0578 0010	A1	135	5.1/4	10	25	1.3	100	6
0578 0020	A2	180	7	19	60	1.8	150	6
0578 0030	A3	220	8.3/4	40	100	2.3	250	6
0578 0040	A4	310	12.1/4	85	140	3.2	500	6

0580 Circlip Pliers (B)



- For fitting external circlips on shafts according to DIN 471 and DIN 983
- Forged
- With 90° angled jaws and opening spring
- Anti-slip, twisted precision tips
- Coated handles

- Standards: DIN ISO 5254-B
- Material: Chrome Vanadium steel

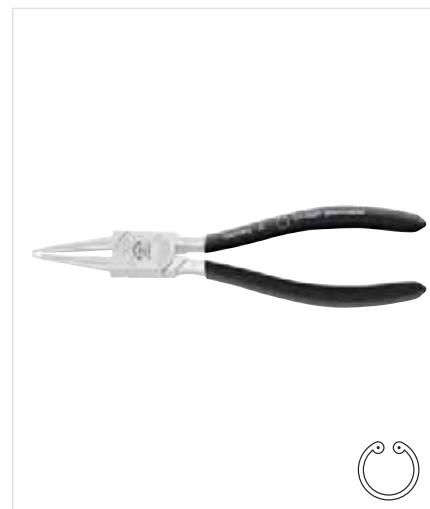
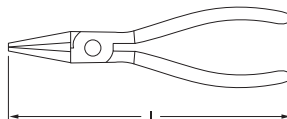


Art. Code	Size	l mm	l"	mm	mm	Ø mm	g	
0580 0000	A01	125	5	3	10	0.9	100	6
0580 0110	A11	125	5	10	25	1.3	100	6
0580 0210	A21	165	6.1/2	19	60	1.8	150	6
0580 0310	A31	200	7.3/4	40	100	2.3	250	6
0580 0410	A41	290	11.1/2	85	140	3.2	500	6

0582 Circlip Pliers (C)

- For fitting internal circlips in holes according to DIN 472 and DIN 984
- Forged
- With straight jaws
- Anti-slip, twisted precision tips
- Coated handles

- Standards: DIN ISO 5254-C
- Material: Chrome Vanadium steel

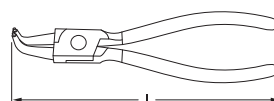


Art. Code	Size	Length		Jaw Width	Jaw Thickness	Opening	Weight	Box
		l mm	l"					
0582 0010	J1	135	5.1/4	12	25	1.3	100	6
0582 0020	J2	180	7	19	60	1.8	150	6
0582 0030	J3	220	8.3/4	40	100	2.3	250	6
0582 0040	J4	310	12.1/4	85	140	3.2	440	6

0584 Circlip Pliers (D)

- For fitting internal circlips in holes according to DIN 472 and DIN 984
- Forged
- With 90° angled jaws and opening spring
- Anti-slip, twisted precision tips
- Coated handles

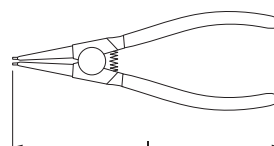
- Standards: DIN ISO 5254-D
- Material: Chrome Vanadium steel



Art. Code	Size	Length		Jaw Width	Jaw Thickness	Opening	Weight	Box
		l mm	l"					
0584 0110	J11	125	5	12	25	1.3	100	6
0584 0210	J21	165	6.1/2	19	60	1.8	150	6
0584 0310	J31	200	7.3/4	40	100	2.3	250	6
0584 0410	J41	290	11.1/2	85	140	3.2	440	6

0578 Circlip Pliers Assortment

- Set in practical, transparent polypropylene box: robust packaging, stackable and easy to stock, reclosable, reusable and with hanging hole for tools panels



Art. Code	Weight	Box
0578 9040	600	1

Content:

- 0578 180 mm A2
- 0580 165 mm A21
- 0582 180 mm J2
- 0584 165 mm J21

For secure gripping, clamping and holding.
Grip Pliers.

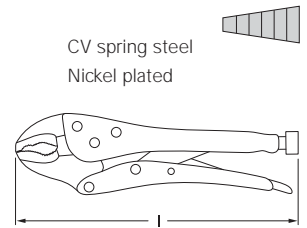


0588 Universal Grip Pliers



- For securely holding, clamping and tensioning round, profile and/or flat material
- With wire cutter
- High clamping pressure due to toggle lever transmission
- Usable with one hand
- With quick-release and adjusting screw

- Material: CV spring steel
- Surface: Nickel plated



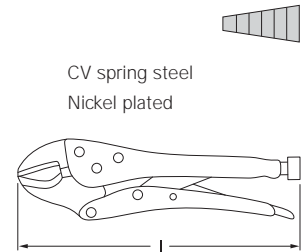
Art. Code	Length		Jaw Width				Weight (g)	Material
	mm	in	mm	mm	mm	mm		
0588 0175	175	7	30	20	30	35	380	5
0588 0250	250	10	40	20	30	50	560	5
0588 0300	300	12	65	30	34	65	925	5

0588 Universal Grip Pliers



- With longwise groove in the top jaw
- Suitable for round and flat materials
- With wire cutter
- High clamping pressure due to toggle lever transmission
- Usable with one hand
- With quick-release lever and adjusting screw

- Material: CV spring steel
- Surface: Nickel plated



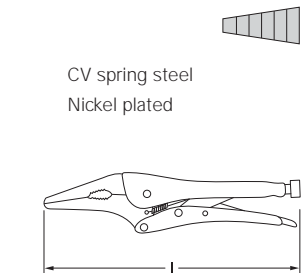
Art. Code	Length		Jaw Width				Weight (g)	Material
	mm	in	mm	mm	mm	mm		
0588 1180	180	7,1/4	35	25	32	25	400	1
0588 1250	250	10	35	30	32	45	600	1
0588 1300	300	12	40	35	35	45	960	1

0589 Langbeck Grip Pliers



- For narrow spaces
- With long, thin jaws
- With wire cutter
- High clamping pressure due to toggle lever transmission
- Usable with one hand
- With quick-release lever and adjusting screw

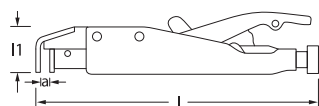
- Material: CV spring steel
- Surface: Nickel plated



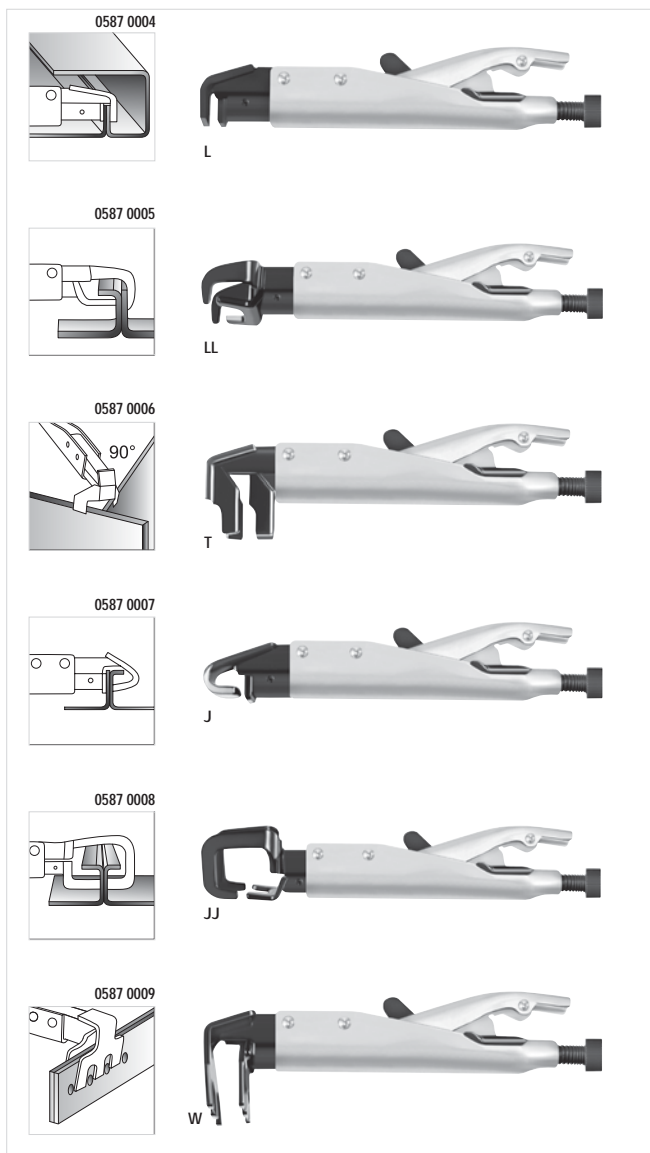
Art. Code	Length		Jaw Width				Weight (g)	Material
	mm	in	mm	mm	mm	mm		
0589 0165	165	6,1/2	20	10	24	0-55	300	1

0587 Axial Grip Pliers, Type L

- For gripping two lap joints, when fitting motor-car parts
- Single hand push-button release
- With quick-release and adjusting screw
- Material: CV spring steel
- Surface: Nickel plated

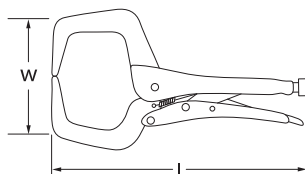


Art. Code	Type	l mm	l1 mm	a mm	g	
0587 0004	L	195	30	0 - 18	450	1
0587 0005	LL	215		0 - 10	515	1
0587 0006	T	194		0 - 12	500	1
0587 0007	J	210		0 - 15	465	1
0587 0008	JJ	230		0 - 10	560	1
0587 0009	W	200	56	0 - 12	560	1

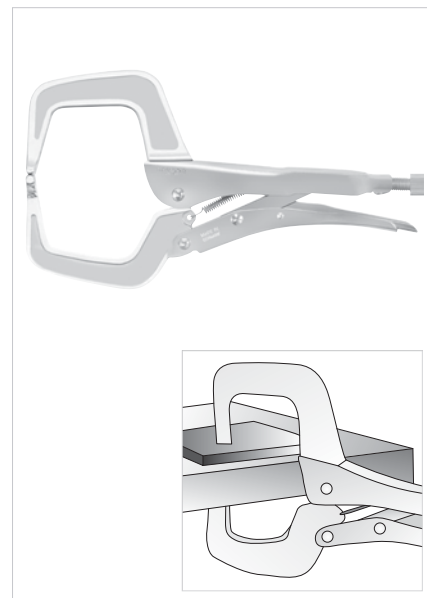


0589 C-Clamp Grip Pliers

- Ideal for bulky workpieces and profiles with high crosspieces
- With movable jaws
- Material: CV spring steel
- Surface: Nickel plated



Art. Code	l mm	l" mm	w mm	g		
0589 0280	280	11	90	0 - 100	710	1



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- 239 Hex Power Shank
- 239 Hex Power Shank
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- 240 Bits (PH)
- 241 Bits (PZ)
- 241 Bits (PZ)
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- 241 Bits (XZN)
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Professional Bitboxes of metal.

- 244 Bits Assortment
- 245 Bit Assortment

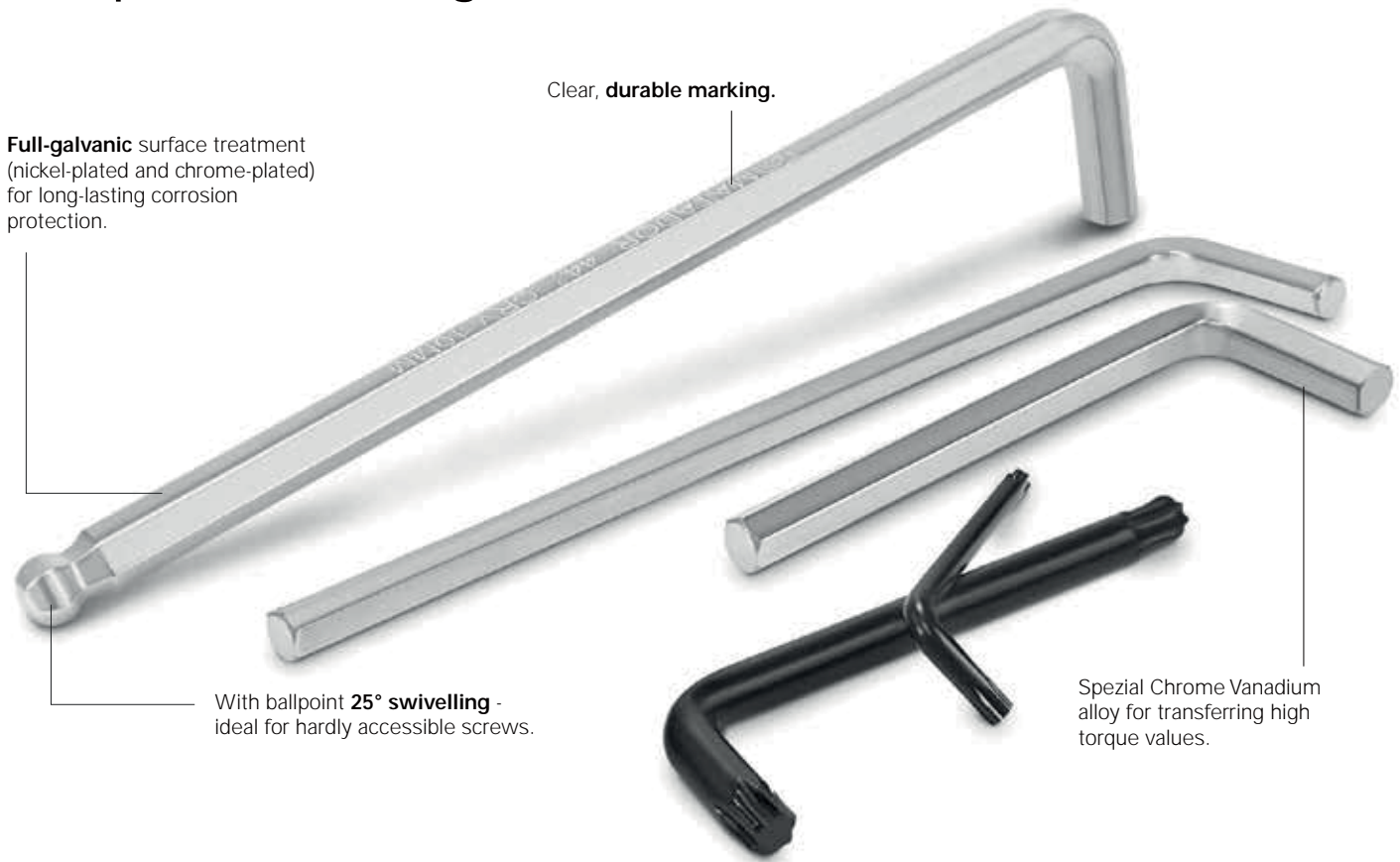


L-Keys / Screwdrivers.

Be a MATADOR.

Short or long pattern. With or without ballpoint. Single keys or key sets.

Classic L-Key Wrenches for quick mounting.



Full-galvanic surface treatment (nickel-plated and chrome-plated) for long-lasting corrosion protection.

Clear, **durable marking**.

With ballpoint **25° swivelling** - ideal for hardly accessible screws.

Spezial **Chrome Vanadium** alloy for transferring high torque values.

The screwdrivers for socket head screws.

Socket head screws with hexagon socket or TORX® profile belong to the most used screw connections in special engineering and furniture industry.



The fitting L-Key Wrenches are reasonably priced and compact in their dimensions and must not be missing in any tools set. Due to the fact that nothing is more nerve-stretching than the search for a single allen key in a tool box, **practical assortments** have established:

Single key or key set. It's your choice.

The **ring** for short type L-Key Wrenches holds the keys together but single keys can easily be taken out.

Besides the clear tool arrangement the **metal holder** has the advantage that **different working positions** are possible and that the lever can be prolonged for increased force action.

In the classic **slide box** the allen key are **arranged clearly** and stored practically **dust-free**.

Completely new is the **MATADOR softGRIP holder**: Its soft material makes it possible to **quickly take out** the required size. Thanks to its **ergonomic design** the holder is also perfectly suitable for quick action as the keys can also be used without being taken out.

Professional quality for enduring success.

Even though L-Key Wrenches are relatively simple tools there are some critical quality features that determine the lifetime and serviceability of the keys:

Since many years MATADOR uses a **special Chrome Vanadium alloy** for L-Key Wrenches in order to realize higher tightening or loosening torques.

Fully automatic CNC machines guarantee **tight tolerances** and go easy on the screw head. **All edges are chamfered** so that the L-Key Wrenches can more easily be inserted into the screw head. This is especially advantageous in case of worn out screws.

Proven production technologie.

The L-Key Wrenches are **Fully hardened** and instead of a simple laser marking they are provided with a durable **stamping** from the size of 3 mm.

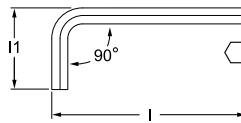
The final full-galvanic treatment during which the L-Key Wrenches are **nickel-plated and chrome-plated** ensures a long-lasting corrosion protection.



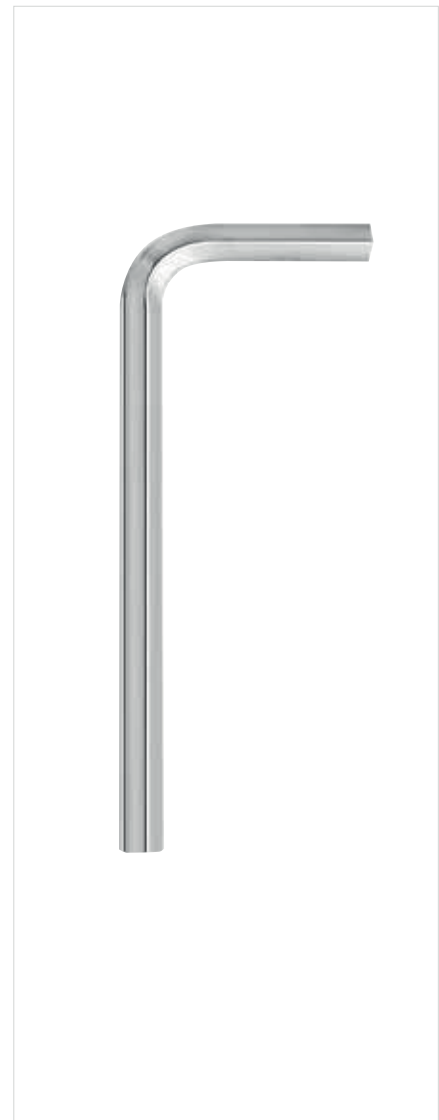
→ Chamfered edges for easy inserting into the screw head

0440 L-Key Wrenches (Hexagon)

- L-Key Wrenches for inside hexagon socket screws, short type
- Fully hardened
- Standards: Similar to ISO 2936 (DIN 911)
- Material: Chrome Vanadium
- Surface: Matt chrome finish



Art. Code	mm	l mm	l1 mm	g	
0440 0015	1,5	45	14	1	10
0440 0020	2,0	50	16	2	10
0440 0025	2,5	57	19	3	10
0440 0030	3,0	64	21	5	10
0440 0035	3,5	68	24	7	10
0440 0040	4,0	72	27	10	10
0440 0045	4,5	78	29	14	10
0440 0050	5,0	83	31	18	10
0440 0055	5,5	89	34	24	10
0440 0060	6,0	94	36	30	10
0440 0070	7,0	100	39	43	10
0440 0080	8,0	105	42	60	10
0440 0090	9,0	112	45	81	10
0440 0100	10,0	120	48	105	10
0440 0110	11,0	125	51	150	10
0440 0120	12,0	133	55	170	5
0440 0140	14,0	152	68	265	5
0440 0170	17,0	174	78	442	5
0440 0190	19,0	195	87	631	5
0440 0220	22,0	216	100	920	5
0440 0240	24,0	242	112	1238	5
0440 0270	27,0	272	125	1740	5
0440 0300	30,0	310	140	2410	5
0440 0320	32,0	342	155	3080	5
0440 0360	36,0	385	175	4370	5



Art. Code	* AF	l1 mm	l2 mm	g	
0440 8001	1/16	45	14	1	10
0440 8002	5/64	50	16	2	10
0440 8003	3/32	57	19	3	10
0400 8004	7/64	60	20	4	10
0440 8005	1/8	64	21	5	10
0440 8006	9/64	68	24	7	10
0440 8007	5/32	72	27	10	10
0440 8008	3/16	83	31	18	10
0440 8009	7/32	89	34	24	10
0440 8010	1/4	94	36	30	10
0440 8011	5/16	105	42	60	10
0440 8012	3/8	120	48	105	10
0440 8013	7/16	125	52	150	10
0440 8014	1/2	133	55	170	10
0440 8015	9/16	152	68	265	5
0440 8016	5/8	174	78	442	5
0440 8017	3/4	195	87	631	5
0440 8018	7/8	216	100	920	5

Overview MATADOR-L-Key-Wrenches:

0440			
0441			
0442			
0443			
0444			
0445			
0446			

0440 L-Key Wrenches set (Hexagon), Minis



- L-Key Wrenches for inside hexagon socket screws, short type
- Attractive Mini sets with the most important sizes
- With plastic hanger and EAN label
- Fully hardened

- Standards: Similar to ISO 2936 (DIN 911)
- Material: Chrome Vanadium
- Surface: Matt chrome finish

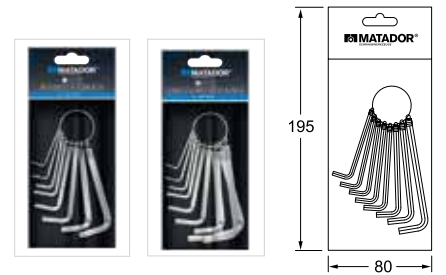


Art. Code	Icon 1	Icon 2	Icon 3	0440	g	Box
0440 9040	15	2	25	3.0 mm	25	1
0440 9030	4	5	6	6.0 mm	75	1
0440 9020	8	10		10.0 mm	175	1

0440 L-Key Wrenches set (Hexagon), on ring



- L-Key Wrenches for inside hexagon socket screws, short type
- Sets in practical ring holder
- Individually removable
- Packaging with butterfly hole and EAN label
- Fully hardened
- Standards: Similar to ISO 2936 (DIN 911)
- Material: Chrome Vanadium
- Surface: Matt chrome finish



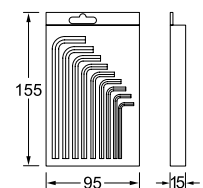
Art. Code	Icon 1	Icon 2	Icon 3	0440	g	Box
0440 9080	1.5	2.0	2.5 - 3.0 - 4.0 - 5.0 - 5.5 - 6.0	6.0 mm	115	1
0440 9100	2.0	2.5 - 3.0 - 4.0 - 4.5 - 5.0 - 5.5 - 6.0 - 8.0 - 10.0		10.0 mm	270	1

0440 L-Key Wrenches set (Hexagon), in slide box



- L-Key Wrenches for inside hexagon socket screws, short type
- Set in robust plastic slide box
- Clearly arranged for quick removal
- With butterfly hole and EAN label
- Fully hardened

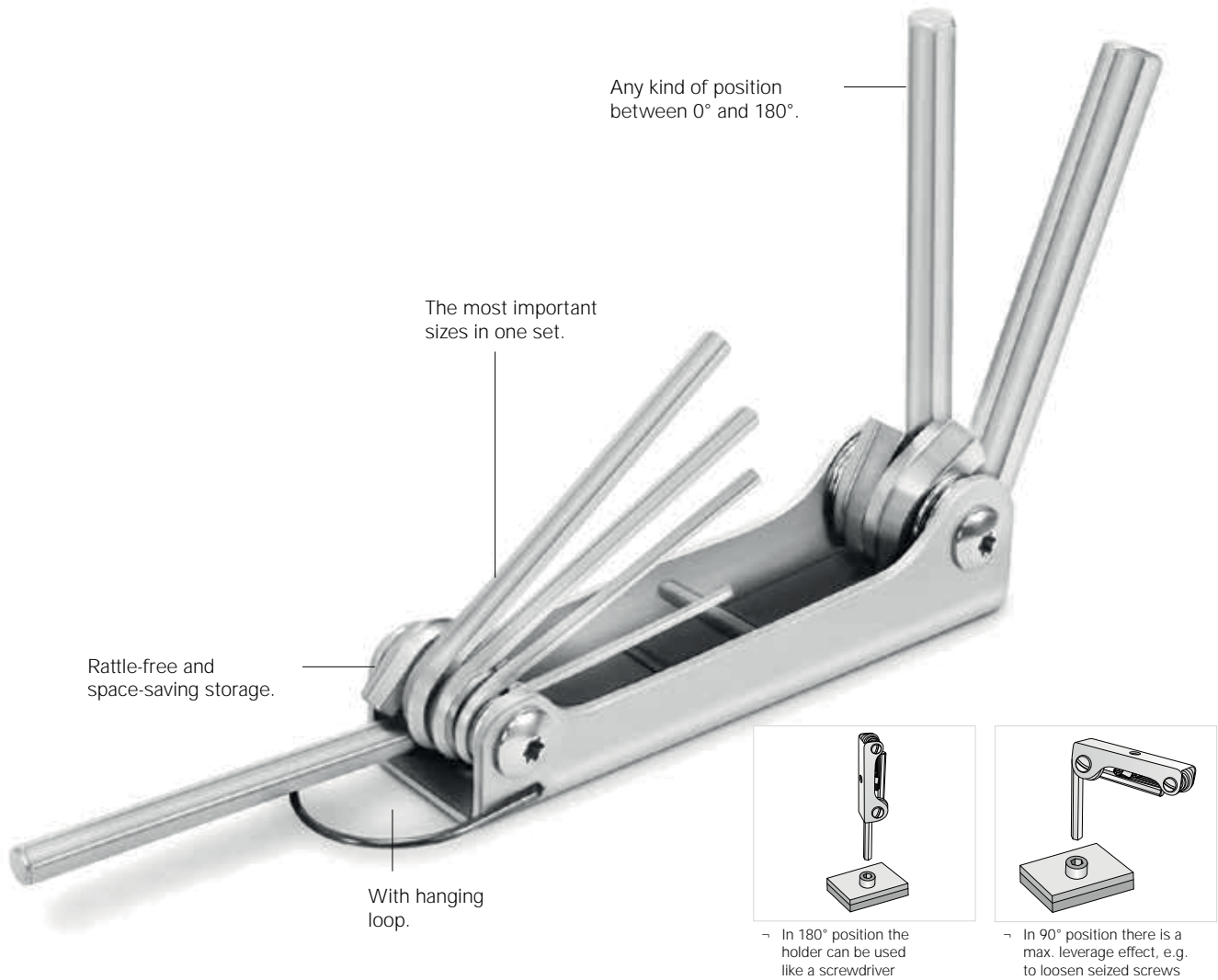
- Standards: Similar to ISO 2936 (DIN 911)
- Material: Chrome Vanadium
- Surface: Matt chrome finish



Art. Code	Icon 1	Icon 2	Icon 3	0440	g	Box
0440 9090	1.5	2.0	2.5 - 3.0 - 4.0 - 5.0 - 6.0 - 8.0 - 10.0	10.0 mm	275	1

Rattle-free storage with big leverage effect.

L-Key Wrenches in metal holder.



0440 L-Key Wrenches set (Hexagon), in metal holder

- L-Key Wrenches for inside hexagon socket screws, short type
- Set in practical metal holder
- Packaging with butterfly hole and EAN label
- Fully hardened
- Standards: Similar to ISO 2936 (DIN 911)
- Material: Chrome Vanadium
- Surface: Matt chrome finish



Art. Code		g	
0440 9070		410	1
0440 2.0 - 3.0 - 4.0 - 5.0 - 6.0 - 8.0 - 10.0 mm			

Proper storage and quick removal.

The new softGRIP holder.

softGRIP

Especially **soft** and **flexible TPE material** for quick and easy removal of the L-Key Wrenches.



Clear, **durable marking** of the single L-Key Wrenches.

Integrated hanger for workshop panels etc.



Ergonomic, spherical design with rounded edges for comfortable hold or direct working without removal of the single keys.



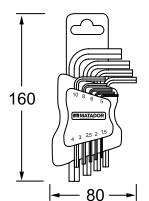
0440

L-Key Wrenches set (Hexagon), in holder



- L-Key Wrenches for inside hexagon socket screws, short type
- Set in black softGRIP holder
- With hanger and EAN label
- Fully hardened

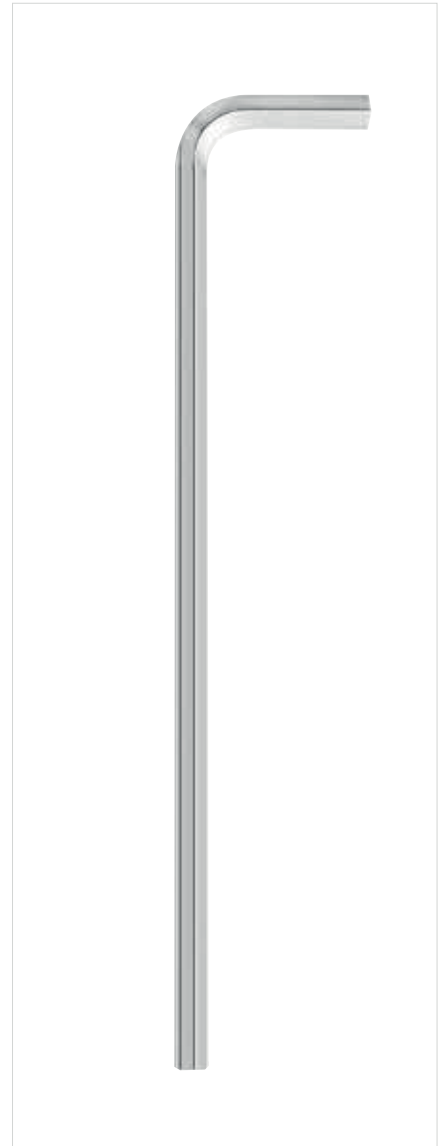
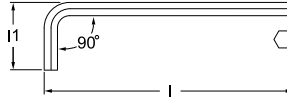
- Standards: Similar to ISO 2936 (DIN 911)
- Material: Chrome Vanadium
- Surface: Matt chrome finish



Art. Code			g	
0440 9091			295	1
0440 1.5 - 2.0 - 2.5 - 3.0 - 4.0 - 5.0 - 6.0 - 8.0 - 10.0 mm				

0441 L-Key Wrenches (Hexagon), long type

- L-Key Wrenches for inside hexagon socket screws, long type
- Fully hardened
- Standards: Similar to ISO 2936 (DIN 911)
- Material: Chrome Vanadium
- Surface: Matt chrome finish



Art. Code	mm	l mm	l1 mm	g	
0020	2.0	100	16	4	10
0441 0025	2.5	112	19	5	10
0441 0030	3.0	127	21	5	10
0441 0040	4.0	142	27	8	10
0441 0050	5.0	163	31	30	10
0441 0060	6.0	184	36	50	10
0441 0080	8.0	206	42	100	10
0441 0100	10.0	232	48	180	10
0441 0120	12.0	258	61	280	5
0441 0140	14.0	290	68	450	5
0441 0170	17.0	333	78	750	5
0441 0190	19.0	375	87	1275	5

Art. Code	* AF	l1 mm	l2 mm	g	
0441 8004	1/8	127	21	5	10
0441 8005	5/32	142	27	8	10
0441 8006	3/16	163	31	30	10
0441 8007	7/32	170	34	40	10
0441 8008	1/4	184	36	50	10
0441 8009	5/16	206	42	100	10
0441 8010	3/8	232	48	180	10
0441 8012	1/2	258	61	280	10

0441 L-Key Wrenches (Hexagon), long type, Minis

- L-Key Wrenches for inside hexagon socket screws, long type
- Attractive Mini sets with the most important sizes
- With plastic hanger and EAN label
- Fully hardened
- Standards: Similar to ISO 2936 (DIN 911)
- Material: Chrome Vanadium
- Surface: Matt chrome finish



Art. Code		g	
0441 9031	0441 2.0 - 2.5 - 3.0 mm	30	1
0441 9030	0441 4.0 - 5.0 - 6.0 mm	115	1
0441 9020	0441 8.0 - 10.0 mm	295	1

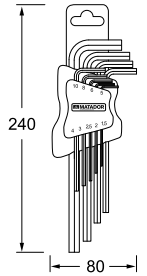
0441

L-Key Wrenches (Hexagon), long type, in holder

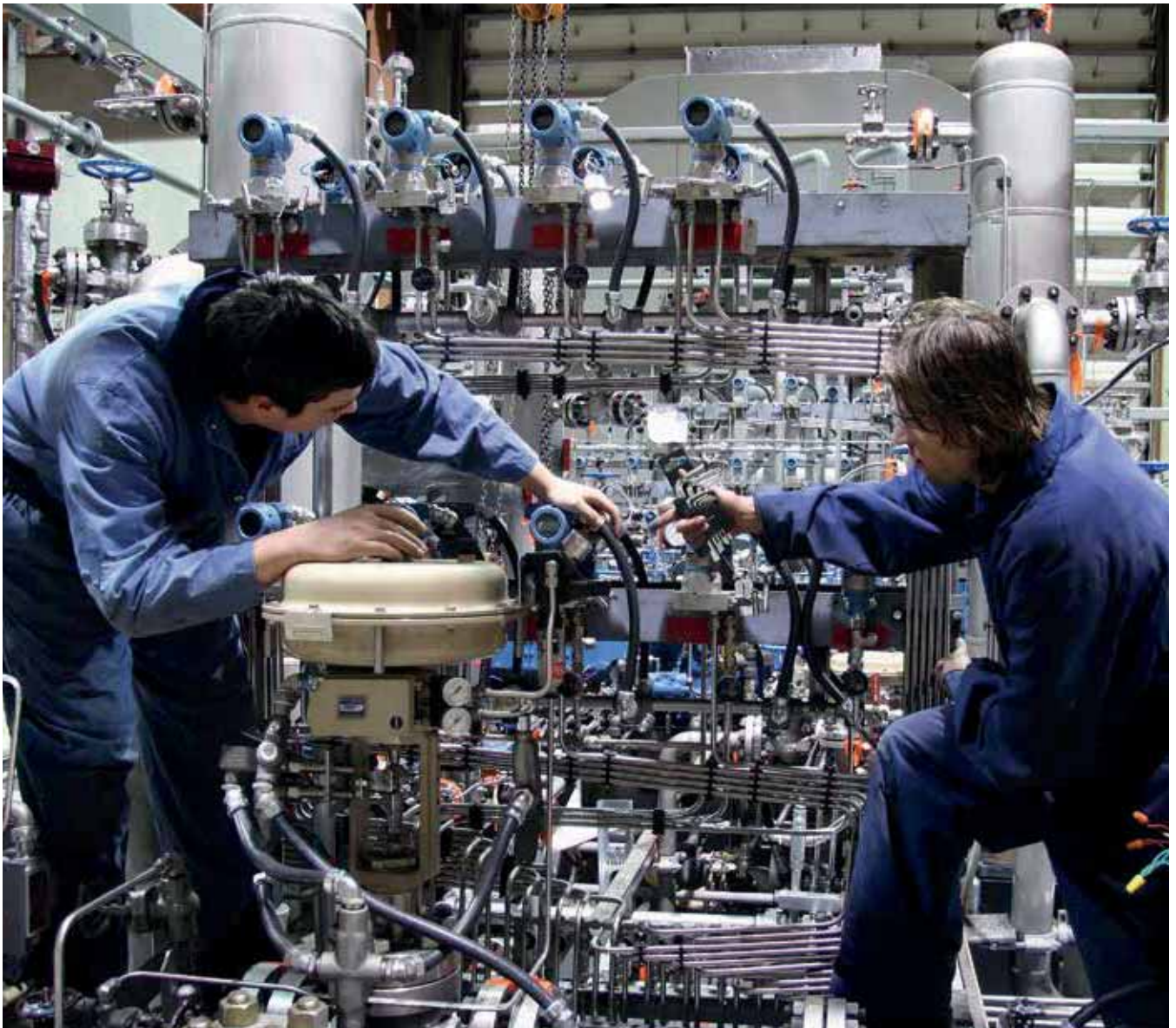


- L-Key Wrenches for inside hexagon socket screws, long type
- Set in black softGRIP-holder
- With plastic hanger and EAN label
- Fully hardened

- Standards: Similar ISO 2936 (DIN 911)
- Material: Chrome Vanadium
- Surface: Matt chrome finish



Art. Code	g	
0441 9091	295	1
0441 1.5 - 2.0 - 2.5 - 3.0 - 4.0 - 5.0 - 6.0 - 8.0 - 10.0 mm		

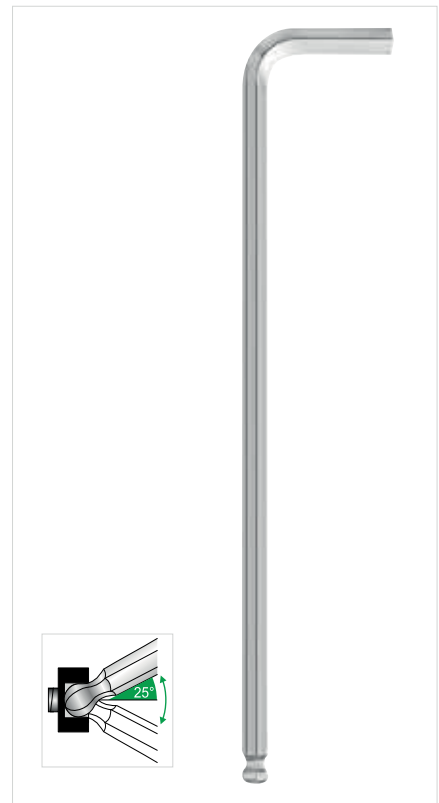


0442 L-Key Wrenches (Hexagon), long, ball point head

- L-Key Wrenches for inside hexagon socket screws, long type
 - With ball point head on the long end, use in awkward areas, swivel angle up to 25°
 - Fully hardened
- Standards: Similar ISO 2936 (DIN 911)
 - Material: Chrome Vanadium
 - Surface: Matt chrome finish

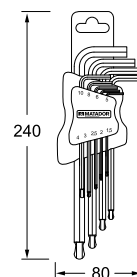
Art. Code	mm	l1 mm	l2 mm	g	
0442 0015	1.5	90	15	3	10
0442 0020	2.0	100	16	4	10
0442 0025	2.5	112	19	5	10
0442 0030	3.0	127	21	5	10
0442 0040	4.0	142	27	8	10
0442 0050	5.0	163	31	30	10
0442 0060	6.0	184	36	50	10
0442 0080	8.0	206	42	100	10
0442 0100	10.0	232	48	180	5
0442 0120	12.0	258	61	280	5
0442 0140	14.0	290	68	450	5
0442 0170	17.0	333	78	750	5
0442 0190	19.0	375	87	1275	5

Art. Code	* AF	l1 mm	l2 mm	g	
0442 8001	1/16	90	14	2	10
0442 8002	5/64	100	16	3	10
0442 8003	3/32	112	19	5	10
0442 8004	1/8	127	21	8	10
0442 8005	5/32	142	27	15	10
0442 8006	3/16	163	31	21	10
0442 8007	7/32	170	34	31	10
0442 8008	1/4	184	36	51	10
0442 8009	5/16	206	42	78	10
0442 8010	3/8	232	48	154	5
0442 8012	1/2	258	61	190	5



0442 L-Key Wrenches set (hexagon), long, ball point head, in holder

- L-Key Wrenches for inside hexagon socket screws, long type
 - With ball point head on the long end, use in awkward areas, swivel angle up to 25°
 - Set in black softGRIP-holder
 - With plastic hanger and EAN label
 - Fully hardened
- Standards: Similar ISO 2936 (DIN 911)
 - Material: Chrome Vanadium
 - Surface: Matt chrome finish



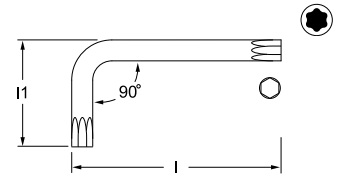
Art. Code		g	
0442 9091	0442 1.5 - 2.0 - 2.5 - 3.0 - 4.0 - 5.0 - 6.0 - 8.0 - 10.0 mm	400	1



0443 L-Key Wrenches (TORX®), short type



- Key Wrenches, for inside TORX® screws, short type
- Material: Chrome Vanadium
- Surface: Black phosphated



Art. Code		l mm	l1 mm	g	
0443 0060	T6	42	16	2	10
0443 0080	T8	48	16	3	10
0443 0090	T9	48	16	3	10
0443 0100	T10	51	17	4	10
0443 0150	T15	54	18	5	10
0443 0200	T20	57	19	7	10
0443 0250	T25	60	20	10	10
0443 0300	T30	70	24	20	10
0443 0400	T40	76	26	25	10

0443 L-Key Wrenches set (TORX®), Minis



- Key Wrenches, for inside TORX® screws, short type
- Attractive Mini sets with the most important sizes
- With plastic hanger and EAN label
- Fully hardened

- Material: Chrome Vanadium
- Surface: Black phosphated

Art. Code		g	
0443 9030	0443 T6 - T8 - T9 mm	22	1
0443 9031	0443 T10 - T15 - T20 mm	30	1
0443 9032	0443 T25 - T30 - T40 mm	75	1

0443 Key Wrenches (TORX®), in metal holder



- Key Wrenches, for inside TORX® screws, short type
- Set in practical metal holder
- With plastic hanger and EAN label
- Fully hardened

- Material: Chrome Vanadium
- Surface: Black phosphated



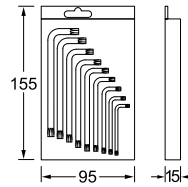
Art. Code		g	
0443 9080	0443 T9 - T10 - T15 - T20 - T25 - T27 - T30 - T40 mm	265	1

0443 L-Key Wrenches (TORX®), in slide box



- Key Wrenches, for inside TORX® screws, short type
- Permanent arrangement und quick removal
- Set in solid plastic box with slide cover
- With plastic hanger and EAN label
- Fully hardened

- Material: Chrome Vanadium
- Surface: Black phosphated



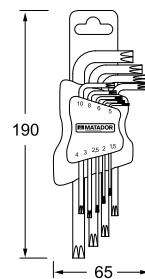
Art. Code		g	
0443 9090		275	1
0443 T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50			

0443 L-Key Wrenches (TORX®), in holder



- Key Wrenches, for inside TORX® screws, short type
- Set in black softGRIP-holder
- With plastic hanger and EAN label
- Fully hardened

- Material: Chrome Vanadium
- Surface: Matt chrome finish



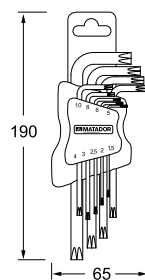
Art. Code		g	
0443 9091		300	1
0443 T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50			

0444 L-Key Wrenches (TORX®), ball point head, in holder



- Key Wrenches, for inside TORX® screws, short type
- With ball point head on the long end, use in awkward areas, swivel angle up to 25°
- Set in black softGRIP-holder
- With plastic hanger and EAN label
- Fully hardened

- Material: Chrome Vanadium
- Surface: Matt chrome finish



Art. Code		g	
0444 9091		300	1
0444 T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50			

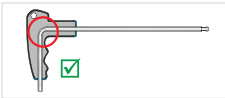
For special requirements.

Powerful tightening with the MATADOR 2C T-Handle.

Hard, blue turning zone made of special plastic for **quick working** with low friction.

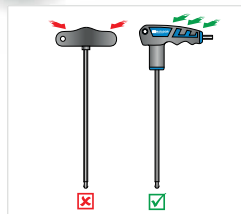


Go-through blade made of special Chrome Vanadium alloy.

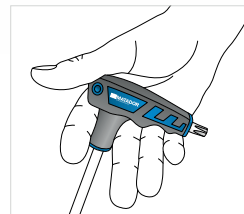


With hanging hole.

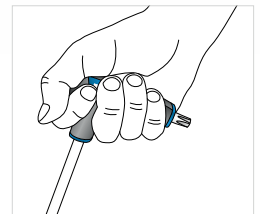
Soft and anti-slip black grip zone made of TPE plastic for secure hold **with maximum pressure**.



- Asymmetric wings for high torque transmission



- Especially ergonomic design



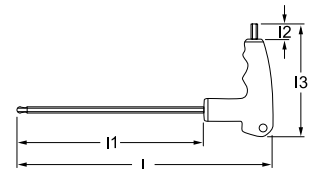
- Comfortable hold thanks to exactly formed grips

0445 2C-T-grip-L-Key Wrenches (Hexagon)



- T-grip-L-Key Wrenches for inside hexagon screws, long type
- With ball point head on the long end, use in awkward areas, swivel angle up to 25°
- Fully hardened
- With 2 component handle with hard turning zone and soft grip zone With hanging hole

- Material: Chrome Vanadium
- Surface: Matt chrome finish



Art. Code	mm	l mm	l1 mm	l2 mm	l3 mm	g	
0445 0020	2.0	138	100	9	65	18	10
0445 0030	3.0	138	100	9	65	24	10
0445 0040	4.0	196	150	10	78	48	10
0445 0050	5.0	196	150	10	78	63	10
0445 0060	6.0	256	200	15	97	91	10
0445 0080	8.0	256	200	15	97	170	10
0445 0100	10.0	256	200	15	97	242	10

0445 2C-T-grip-L-Key Wrenches set (Hexagon)



- Set of Key Wrenches 2C-T-grip-L-Key wrenches for inside hexagon screws, long type, 7-pcs
- The most important sizes in one set
- Set in practical roll bag made of black artificial leather, with strap fastener and 10 compartments (size: 460 x 320 mm)

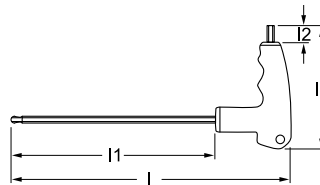


Art. Code		g	
0445 9070		800	1
0445 2 - 3 - 4 - 5 - 6 - 8 - 10 mm			

0446 2C-T-grip-L-Key Wrenches (TORX®)



- T-grip-L-Key Wrenches for inside TORX® screws, long type
- Blade fully hardened
- With 2 component handle with hard turning zone and soft grip zone With hanging hole
- With hanging hole
- Material: Chrome Vanadium
- Surface: Matt chrome finish



Art. Code							
		l mm	l1 mm	l2 mm	l3 mm	g	
0446 0100	T10	138	100	12	68	24	10
0446 0150	T15	138	100	12	68	24	10
0446 0200	T20	138	100	12	68	31	10
0446 0250	T25	145	100	15	83	48	10
0446 0270	T27	145	100	15	83	53	10
0446 0300	T30	207	150	15	97	100	10
0446 0400	T40	207	150	15	97	120	10
0446 0450	T45	207	150	15	97	140	10
0446 0500	T50	207	150	15	97	180	10

0446 2C-T-grip-L-Key Wrenches set (TORX®)



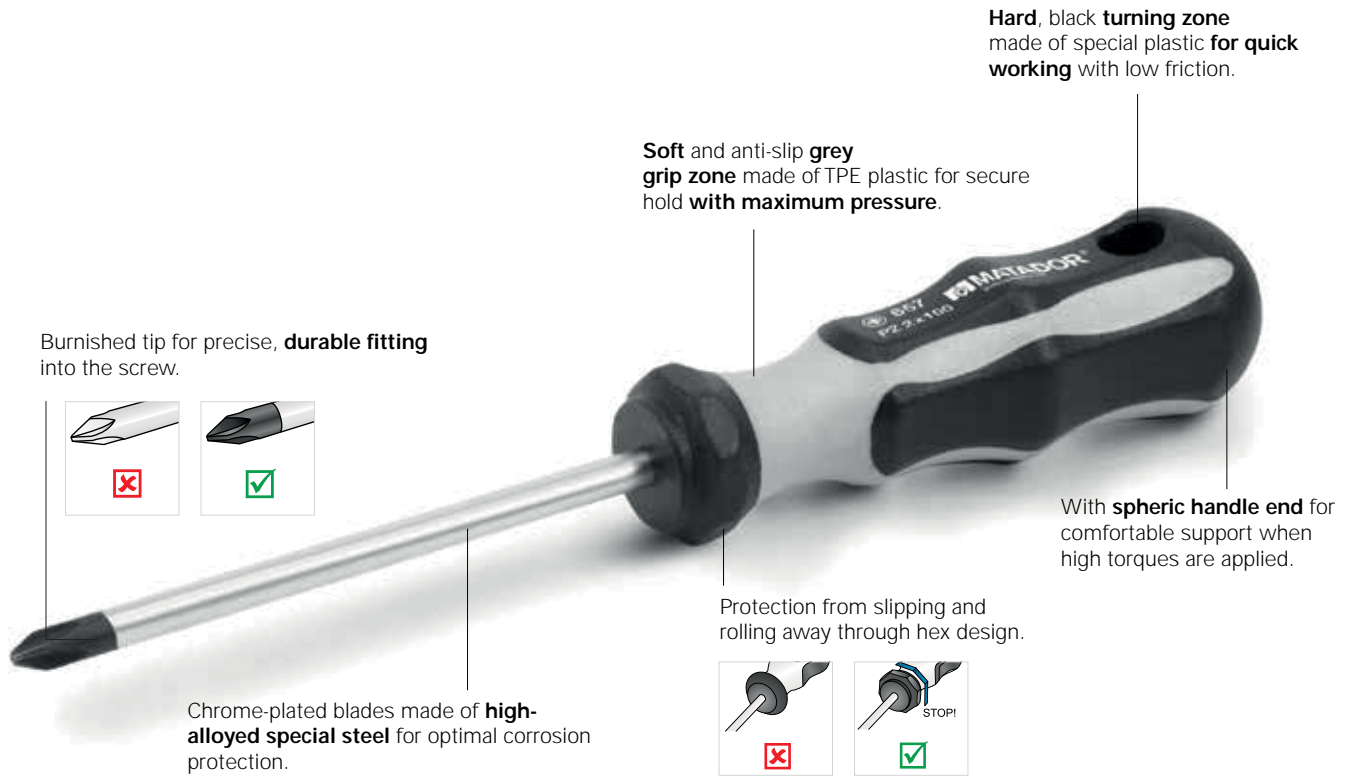
- Set of Key Wrenches 2C-T-grip-L-Key wrenches for inside hexagon screws, long type, 9-pcs
- The most important sizes in one set
- Set in practical roll bag made of black artificial leather, with strap fastener and 10 compartments (size: 460 x 320 mm)



Art. Code		g	
0446 9090		830	1
0446 T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50			

Especially ergonomic design for effortless working.

MATADOR 2-Component Screwdrivers. Spare the hand for powerful screwing.



2-component handles are more than 2 colors.

Comprehensive research into the gripping characteristics and flow of movement when working with screwdrivers have shown that the use of different materials **can considerably relieve the muscles in the hand**.

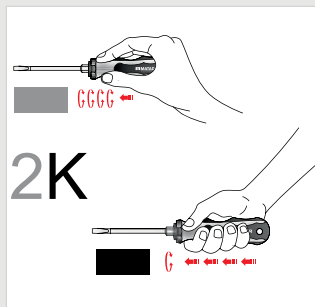
MATADOR 2-component handles thus consist of hard and soft plastic materials making it possible to **work without fatigue** to a large extend.

The special plastic material of the black movement component offers a variety of advantages: It is highly **impact-resistant, splinterproof, insulating, resistant to oil** and solvents, heat-resistant and flame-resistant. Moreover it has a low weight and is suitable for use within a wide temperature range (-35°C up to +70°C).

For quick and forceful tightening.

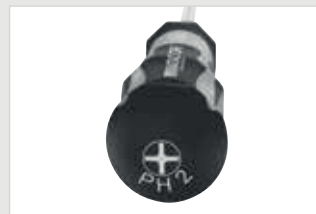
The **hard component** allows a **forceful and quick tightening with low friction**. Thanks to the bigger diameter of the hard component the screwdriver can be turned in the hand like a wheel.

The **soft TPE component** by contrast has an **anti-slip effect** and allows powerful working.



Clear marking and practical details.

All MATADOR 2C screwdrivers have an **additional identification** of the tool profile at the handle end, so that the required screwdriver can quickly be found in the tool box.



The borehole at the handle end allows the **insertion of a sliding bar** for loosening seized screws or can be used as **hanging hole** to improve tool order at the tools panel.

The shape follows the human hand.



The spheric shape of the MATADOR 2-component handles has been designed in such a way that the human hand can encompass the handle optimally.

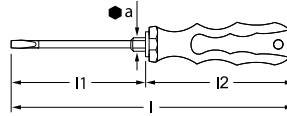
With that the hand's force is spread over a maximum contact surface so that pressure points can be avoided and an optimal transfer of forces is ensured.

Ergonomics you can touch!

0605 2C-Screwdriver (Slot)

- Premium workshop screwdrivers with shovelshaped tip
- With hexagon blade for torque increase together with a spanner
- With 2-component handle with hard turning zone and soft grip zone
- With burnished tip
- With hanging hole

- Standards: DIN ISO 2380-2 / tip to DIN ISO 2380-1 Form A



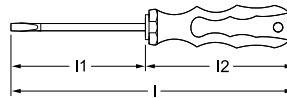
Art. Code	mm	mm	a mm	l mm	l1 mm	l2 mm	g	
0605 1055	1.0	5.5	8	205	100	105	73	10
0605 1265	1.2	6.5	10	230	125	105	92	10
0605 1280	1.2	8.0	13	270	150	120	164	10
0605 1610	1.6	10.0	13	295	175	120	179	10
0605 2012	2.0	12.0	16	320	200	120	255	5
0605 2514	2.5	14.0	16	370	250	120	330	5



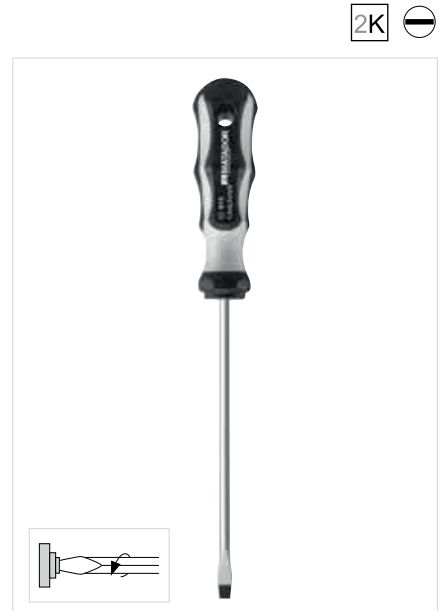
0615 2C-Screwdriver (Slot)

- Classic workshop screwdrivers with shovelshaped tip
- With 2-component handle with hard turning zone and soft grip zone
- With burnished tip
- With hanging hole

- Standards: DIN ISO 2380-2 / tip to DIN ISO 2380-1 Form A



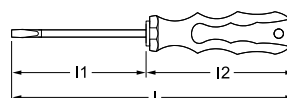
Art. Code	mm	mm	l mm	l1 mm	l2 mm	g	
0615 0640	0.6	4.0	160	75	85	40	10
0615 0850	0.8	5.0	195	100	95	55	10
0615 1055	1.0	5.5	230	125	105	70	10
0615 1265	1.2	6.5	255	150	105	85	10
0615 1280	1.2	8.0	295	175	120	128	5
0615 1610	1.6	10.0	370	250	120	166	5
0615 2012	2.0	12.0	370	250	120	215	5



0660 Precision Screwdrivers (slotted)

- Screwdrivers for electronics engineers with plane parallel tip
- With 2-component handle with hard turning zone and soft grip zone
- With burnished tip
- With hanging hole

- Standards: DIN ISO 2380-2 / tip to DIN ISO 2380-1 Form B



Art. Code	mm	mm	l mm	l1 mm	l2 mm	g	
0660 0425	0.4	2.5	160	75	85	33	10
0660 0530	0.5	3.0	185	100	85	35	10
0660 0840	0.8	4.0	195	100	95	50	10
0660 0850	0.8	5.0	245	150	95	81	5

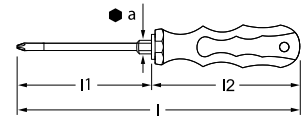


0658 2C-Screwdriver (PH)



- Premium screwdriver for Cross head screws Phillips-Recess
- With hexagon blade for torque increase together with a spanner
- With 2-component handle with hard turning zone and soft grip zone
- With black phosphated tip
- With hanging hole

- Standards: DIN ISO 8764 / tip to DIN ISO 8764-1 PH
- Material Blade: Chrome Vanadium
- Surface Blade: Matt chrome finished



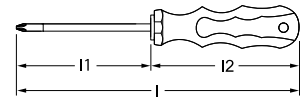
Art. Code		a mm	l mm	l1 mm	l2 mm	g	
0658 0010	PH 1	8	175	80	95	55	10
0658 0020	PH 2	10	205	100	105	84	10
0658 0030	PH 3	13	270	150	120	158	10
0658 0040	PH 4	16	320	200	120	248	10

0655 2C-Screwdriver (PH)



- Classical screwdriver for Cross head screws Phillips-Recess
- With 2-component handle with hard turning zone and soft grip zone
- With black phosphated tip
- With hanging hole

- Standards: DIN ISO 8764 / tip to DIN ISO 8764-1 PH
- Material Blade: Chrome Vanadium
- Surface Blade: Matt chrome finished



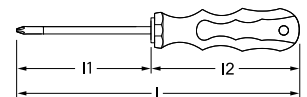
Art. Code			l mm	l1 mm	l2 mm	g	
0655 0000	PH 0		175	80	95	34	10
0655 0010	PH 1		175	80	95	34	10
0655 0020	PH 2		205	100	105	77	10
0655 0030	PH 3		270	150	120	145	10

0657 2C-Screwdriver (PZ)



- Classical screwdriver for Pozidriv screws
- With 2-component handle with hard turning zone and soft grip zone
- With black phosphated tip
- With hanging hole

- Standards: DIN ISO 8764 / tip to DIN ISO 8764-1 PZ
- Material Blade: Chrome Vanadium
- Surface Blade: Matt chrome finished



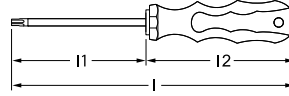
Art. Code			l mm	l1 mm	l2 mm	g	
0657 0000	PZ 0		175	80	95	34	10
0657 0010	PZ 1		175	80	95	34	10
0657 0020	PZ 2		205	100	105	77	10
0657 0030	PZ 3		270	150	120	145	10

0620 2C-Screwdriver (TORX®)

2K

- Workshop screwdriver for inside TORX® screws
- With 2-component handle with hard turning zone and soft grip zone
- With black phosphated tip
- With hanging hole

- Material Blade: Chrome Vanadium
- Surface Blade: Matt chrome finished



Art. Code							
Art. Code			l mm	l1 mm	l2 mm	g	
0620 0080	T8		160	75	85	28	5
0620 0090	T9		160	75	85	32	5
0620 0100	T10		175	80	95	37	5
0620 0150	T15		175	80	95	40	5
0620 0200	T20		195	100	95	44	5
0620 0250	T25		195	100	95	48	5
0620 0270	T27		220	115	105	71	5
0620 0300	T30		220	115	105	85	5
0620 0400	T40		250	130	120	125	5

0627/28 Offset Screwdrivers

- For working in places with difficult access

- Material: Chrome Vanadium
- Surface: nickel plated

Art. Code	mm	mm				
Art. Code	mm	mm		l mm	g	
0627 0640	0.6	4.0		100	9	10
0627 1055	1.0	5.5		125	22	10
0627 1280	1.2	8.0		150	55	10
0628 1020			PH 1 - PH 2	100	23	10
0628 3040			PH 3 - PH 4	150	70	10



0640 Screwdriver, short (Slot)

- For working in places with difficult access
- With black phosphated tip
- With hanging hole

- Material Blade: Molybdän Vanadium
- Surface Blade: Matt chrome finished

Art. Code	mm	mm						
Art. Code	mm	mm		l mm	l1 mm	l2 mm	g	
0640 0840	0.8	4.0		75	25	50	36	10
0640 1265	1.2	6.5		75	25	50	42	10



0641 Screwdriver, short (PH)

- For working in places with difficult access
- With black phosphated tip
- With hanging hole

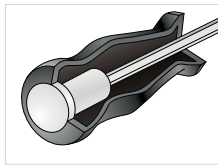
- Material Blade: Molybdän Vanadium
- Surface Blade: Matt chrome finished

Art. Code								
Art. Code				l mm	l1 mm	l2 mm	g	
0641 0010	PH 1			75	25	50	38	10
0641 0020	PH 2			75	25	50	41	10



Punch the head.

MATADOR Screwdriver with striking cap.



With go-through blade, transfers power of the hammer strike directly to the stuck screw.



Ergonomic handle for effortless working.

Hexagon blade for spanner support.

Burnished tip for precise, **durable fitting** into the screw.

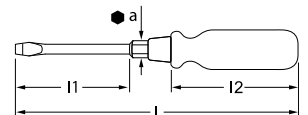


0600 Screwdrivers with wooden handle (Slot)



- Workshop screwdrivers with shovel-shaped tip
- With go-through blade and striking cap
- From 1,0 x 5,5 mm with hexagon blade for torque increase together with a spanner
- Burnished tip
- Wooden handle made of sealed beech wood, handle end protected from damage through hammer impact by a leather cap
- Forged round blade

- Standards: DIN ISO 2380-2 / tip to DIN ISO 2380-1 Form A
- Material Blade: Chrome Vanadium
- Surface Blade: Matt chrome finished



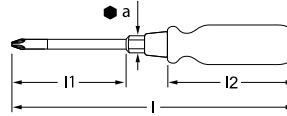
Art. Code	mm	mm	a mm	l mm	l1 mm	l2 mm	g	
0600 0635	0.6	3.5		170	75	95	50	10
0600 0845	0.8	4.5		185	90	95	54	10
0600 1055	1.0	5.5	8	200	100	100	65	10
0600 1270	1.2	7.0	10	235	125	110	111	10
0600 1280	1.2	8.0	13	270	150	120	156	10
0600 1610	1.6	10.0	13	300	175	125	206	10
0600 2012	2.0	12.0	16	330	200	130	264	5
0600 2514	2.5	14.0	16	380	250	130	296	5

0650 Screwdrivers with wooden handle (Cross head PH)



- Workshop screwdrivers
- With go-through blade and striking cap
- With hexagon blade for torque increase together with a spanner
- Burnished tip
- Wooden handle made of sealed beech wood, handle end protected from damage through hammer impact by a leather cap
- Forged round blade

- Standards: DIN ISO 8764-2 / tip to DIN ISO 8764-1 PH
- Material Blade: Chrome Vanadium
- Surface Blade: Matt chrome finished



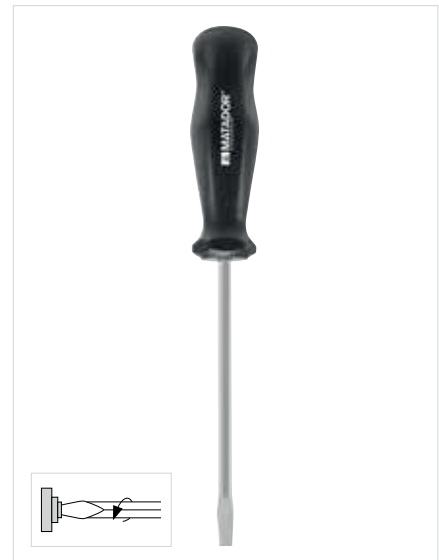
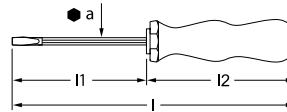
Art. Code			d1 mm	l mm	l1 mm	l2 mm	g	
0650 0010	PH 1		6	175	80	95	58	10
0650 0020	PH 2		10	210	100	110	92	10
0650 0030	PH 3		13	270	150	120	165	10
0650 0040	PH 4		16	330	200	130	291	5

0652 Screwdrivers with striking cap (Slot)



- Workshop screwdrivers with shovel-shaped tip
- With go-through blade and striking cap
- Blade made of hexagon material

- Standards: DIN ISO 2380-2 / tip to DIN ISO 2380-1 Form A
- Material Blade: Chrome Vanadium
- Surface Blade: Matt chrome finished



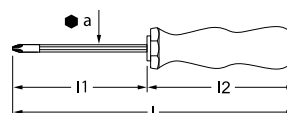
Art. Code	mm	mm	d1 mm	l mm	l1 mm	l2 mm	g	
0652 1055	1.0	5.5	5	200	100	100	100	10
0652 1265	1.2	6.5	6	235	125	110	130	10
0652 1280	1.2	8.0	8	260	150	110	185	10
0652 1610	1.6	10.0	8	285	175	110	195	10
0652 2012	2.0	12.0	10	320	200	120	310	5

0653 Screwdrivers with striking cap (PH)



- Workshop screwdrivers with shovel-shaped tip
- With go-through blade and striking cap
- Blade made of hexagon material

- Standards: DIN ISO 8764-2 / tip to DIN ISO 8764-1 PH
- Material Blade: Chrome Vanadium
- Surface Blade: Matt chrome finished



Art. Code			a mm	l mm	l1 mm	l2 mm	g	
0653 0010	PH 1		5	180	80	100	95	10
0653 0020	PH 2		6	210	100	110	125	10
0653 0030	PH 3		8	260	150	110	185	10
0653 0040	PH 4		10	320	200	120	310	5

Practical and proven assortments.
Screwdriver Sets.



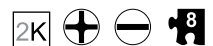
0680 2C-Screwdriver set L



- 6 pcs. set of screwdrivers
- All important sizes in one set
- Set in practical, transparent polypropylene box: robust packaging, stackable and easy to stock, reclosable, reusable

Art. Code		g	
0680 9060		520	1
	0615		0.6 x 4.0 x 75 - 0.8 x 5.0 x 100 - 1.0 x 5.5 x 125 - 1.2 x 6.5 x 150 mm
	0655		PH 1 x 80 - PH 2 x 100 mm

0680 2C-Screwdriver set XL



- 8 pcs. set of screwdrivers including voltage
- tester and carburettor screwdriver
- All important sizes in one set
- Set in practical, transparent polypropylene box: robust packaging, stackable and easy to stock, reclosable, reusable

Art. Code		g	
0680 9080		590	1
	0615		0.6 x 4.0 x 75 - 0.8 x 5.0 x 100 - 1.0 x 5.5 x 125 - 1.2 x 6.5 x 150 mm
	0655		PH 1 x 80 - PH 2 x 100 mm
	0635		0.5 x 3.0 x 65 mm
	0640		0.8 x 4.0 x 25 mm

0620 2C-Screwdriver set (TORX®)



- 6 pcs. set of screwdrivers for recessed TORX® head screws
- All important sizes in one set
- Set in practical, transparent polypropylene box: robust packaging, stackable and easy to stock, reclosable, reusable

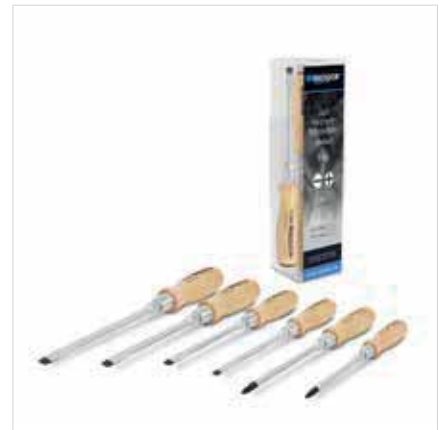


Art. Code		g	
0620 9060		520	1
0620 T10 - T15 - T20 - T25 - T27 - T30			

0650 Wooden handle Screwdriver set



- 6 pcs. set of screwdrivers with wooden handle, with go-through blade and striking cap
- All important sizes in one set
- Set in practical, transparent polypropylene box: robust packaging, stackable and easy to stock, reclosable, reusable



Art. Code		g	
0650 9060		530	1
0600 0.8 x 4.5 x 90 - 1.0 x 5.5 x 100 - 1.2 x 8.0 x 150 - 1.6 x 10 x 175 mm 0650 PH 1 x 80 - PH 2 x 100 mm			

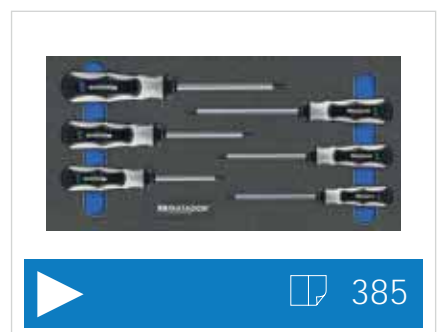
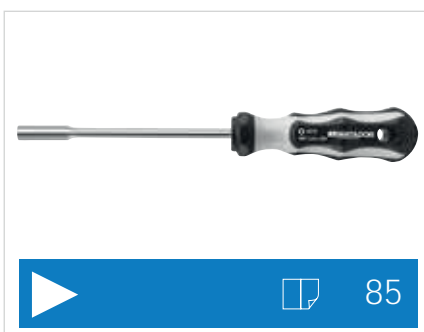
0653 Screwdriver set with striking cap



- 6 pcs. set of screwdrivers with go-through blade and striking cap
- Blade made of hexagon material
- All important sizes in one set
- Set in practical, transparent polypropylene box: robust packaging, stackable and easy to stock, reclosable, reusable



Art. Code		g	
0653 9060		520	1
0652 1.0 x 5.5 x 100 - 1.2 x 6.5 x 125 - 1.6 x 10 x 175 - 2.0 x 12 x 200 mm 0653 PH 1 x 80 - PH 2 x 100 mm			



Faster screwing with ratchet function.

Instead of 22 Screwdrivers. The MATADOR Rollbag.



0672 Screwdriver for reversible blades

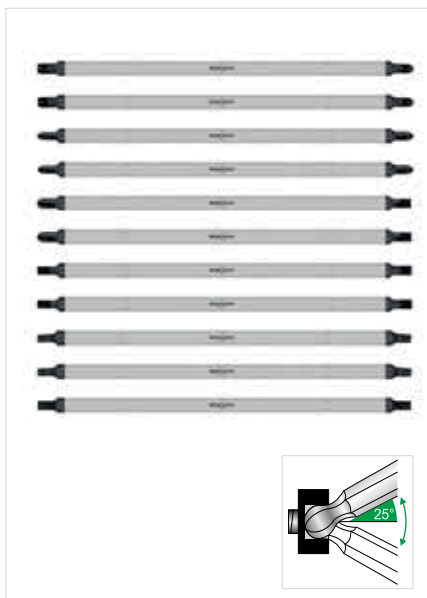


- Screwdriver for reversible blades with 6,3 mm (1/4") hexagon drive
- With integrated freewheel ratchet for clockwise or anticlockwise tightening and locking function
- With quick lock system for reversible blades
- With 2-component handle with hard turning zone and soft grip zone
- Max. 20 N·m



Art. Code	l mm	g	
0672 0001	160	187	5

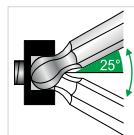
0672 Reversible Blades



- Reversible blades with 6,3 mm (1/4") hexagon drive



Art. Code	mm	l mm	g		
0672 0002	0.8 x 4.0 - 1.0 x 5.5 mm	6	170	42	1
0672 0003	PH 1 - PH 2	6	170	42	1
0672 0004	PH 3 - 1.2 x 6.5 mm	6	170	42	1
0672 0005	PZ 1 - PZ 2	6	170	42	1
0672 0006	3 - 3 mm ball point head	6	170	42	1
0672 0007	4 - 4 mm ball point head	6	170	42	1
0672 0008	5 - 5 mm ball point head	6	170	42	1
0672 0009	6 - 6 mm ball point head	6	170	42	1
0672 0010	T10 - T15	6	170	42	1
0672 0011	T20 - T25	6	170	42	1
0672 0012	T30 - T40	6	170	42	1



0672 Rollbag S

- 7 pcs. set containing screwdriver for reversible blades with freewheel ratchet and 6 reversible blades
- In roll bag made of robust nylon (black) with silver-grey edging and belt loop



Art. Code		g	
0672 9070		500	1
<ul style="list-style-type: none"> 0672 0672 0.8 x 4.0 - 1.0 x 5.5 mm 0672 PH 1 - PH 2 0672 PZ 1 - PZ 2 0672 T10 - T15 - T20 - T25 - T30 - T40 			

0672 Rollbag XL

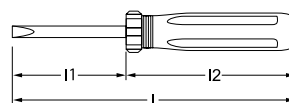
- 12 pcs. set containing screwdriver for reversible blades with freewheel ratchet and 11 reversible blades
- In roll bag made of robust nylon (black) with silver-grey edging and belt loop



Art. Code		g	
0672 9120		710	1
<ul style="list-style-type: none"> 0672 0672 0.8 x 4.0 - 1.0 x 5.5 mm 0672 PH 1 - PH 2 0672 PH 3 - 1.2 x 6.5 mm 0672 PZ 1 - PZ 2 0672 3 - 3 KK - 4 - 4 KK - 5 - 5 KK - 6 - 6 KK 0672 T10 - T15 - T20 - T25 - T30 - T40 			

0694 Reversible Screwdriver ECO

- Practical reversible screwdriver in standard quality (on-board tool)
- Handle made of black plastic
- Blade made of tool steel



Art. Code	mm		l mm	l1 mm	l2 mm	g	
0694 0001	1.2 x 6.0	PH 2	165	65	100	45	10

Indispensable for all precision-mechanical work.

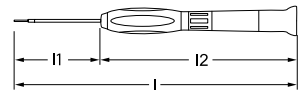
Precision Screwdrivers with 2-component handle.



0661 2C-Precision screwdriver (Slot)



- For all precision-mechanical work
- With turnable cap and 2-component handle with hard turning zone and soft grip zone
- With burnished tip

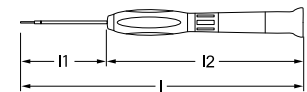


Art. Code	mm	mm	l mm	l1 mm	l2 mm	g	
0661 0251	0.25	1.0	150	50	100	10	10
0661 0420	0.40	2.0	150	50	100	10	10
0661 0530	0.50	3.0	150	50	100	10	10

0662 2C-Precision screwdriver (PH)



- For all precision-mechanical work
- With turnable cap and 2-component handle with hard turning zone and soft grip zone
- With burnished tip

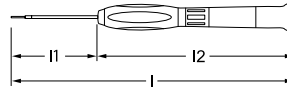


Art. Code		l mm	l1 mm	l2 mm	g	
0662 0000	PH 00	150	50	100	10	10
0662 0001	PH 0	150	50	100	10	10
0662 0010	PH 1	150	50	100	10	10

0663 2C-Precision screwdriver (TORX®)



- For all precision-mechanical work
- With turnable cap and 2-component handle with hard turning zone and soft grip zone
- With burnished tip



Art. Code							
			l mm	l1 mm	l2 mm	g	
0663 0050	T5		150	50	100	10	10
0663 0060	T6		150	50	100	10	10
0663 0070	T7		150	50	100	10	10
0663 0080	T8		150	50	100	10	10
0663 0100	T10		150	50	100	10	10
0663 0150	T15		150	50	100	10	10

0662 2C-Precision screwdriver set



- 6 pcs. set of precision screwdrivers
- All important sizes in one set
- Set in practical, transparent polypropylene box: robust packaging, stackable and easy to stock, reclosable, reusable



Art. Code			
		g	
0662 9060		70	1
0661 0.25 x 1.0 - 0.4 x 2.0 - 0.5 x 3.0 mm 0662 PH 00 - PH 0 - PH 1			

0663 2C-Precision screwdriver set (TORX®)



- 6 pcs. set of precision screwdrivers for recessed TORX® head screws
- All important sizes in one set
- Set in practical, transparent polypropylene box: robust packaging, stackable and easy to stock, reclosable, reusable



Art. Code			
		g	
0663 9060		70	1
0663 T5 - T6 - T7 - T8 - T10 - T15			

For turning every screw.

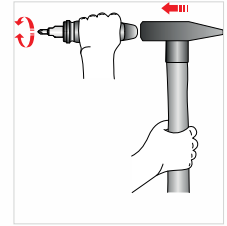
Impact Screwdriver and Bits.

Very handy, only 185 mm total length including bit.



With 12.5 mm (1/2") square drive for sockets or bits (with adaptor).

1/2 **12.5 mm**



Including bit adaptor.

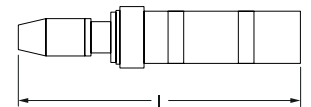
8 mm **5/16"**



0696 Hand Impact Screwdriver Set



- For loosening jammed screws or nuts
- Set with the most important bits with 8 mm (5/16") external hexagon
- In solid metal case with MTS inlay



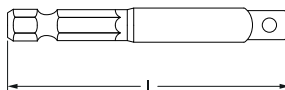
Art. Code	Icon	l mm	g	Box
0696 0001		160	1300	1

	0696		
	7026		1,6 x 8,0 x 35 - 1,6 x 10,0 x 35 - 2,0 x 12,0 x 35 mm
	7027		PH 2 - PH 3 - PH 4
	7028		5 - 6 - 8 mm
	7032		T40 - T45 - T50 - T55



2085 Hex Power Shank

- For use with power screwdrivers



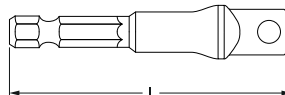
1/4 6.3 1/4 6.3



Art. Code	mm	"	mm	"	l mm	g	
2085 0001	6.3	1/4	6.3	1/4	50	15	10

3085 Hex Power Shank

- For use with power screwdrivers



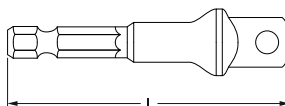
1/4 6.3 3/8 10



Art. Code	mm	"	mm	"	l mm	g	
3085 0001	6.3	1/4	10.0	3/8	75	25	10

4085 Hex Power Shank

- For use with power screwdrivers



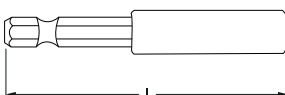
1/4 6.3 1/2 12.5



Art. Code	mm	"	mm	"	l mm	g	
4085 0001	6.3	1/4	12.5	1/2	75	30	10

7040 Bitholder

- To use 1/4" -Bits with heavy-duty applications, e.g. AEG, Bosch, Metabo, Holzher, Black & Decker
- With magnet



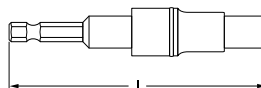
1/4 6.3 1/4 6.3



Art. Code	mm	"	mm	"	l mm	g	
7040 0001	6.3	1/4	6.3	1/4	58	27	5

7048 Bitholder "Flex"

- Spherical head magnetic holder with quick-change sleeve and extra strong neo-dymium magnet
- With ball joint for tightening with an angle of up to 20 degrees, even in areas of difficult access
- Also usable as standard magnetic holder



1/4 6.3 1/4 6.3



Art. Code	mm	"	mm	"	l mm	g	
7048 0001	6.3	1/4	6.3	1/4	90	45	5

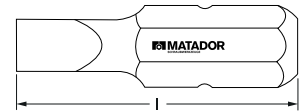


7026 Bits (Slotted)



- For slotted screws (DIN 3127 / ISO 2351)
- For use with air or electric power tools, with hexagon drive 6.3 mm (1/4") or 8 mm (5/16")
- Drive according to DIN 3126-C / ISO 1173-C
- 6.3 mm (1/4") in plastic box (10 pcs), 8 mm (5/16") in polybag (5 pcs)

- Material: High grade tool steel, grey



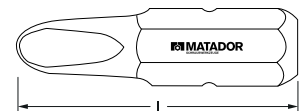
Art. Code	mm	"	mm	l mm	g	
7026 0006	6.3	1/4	0.6 x 4.0	39	6	1 (10)
7026 0008	6.3	1/4	0.8 x 5.5	39	7	1 (10)
7026 0010	6.3	1/4	1.0 x 5.5	39	8	1 (10)
7026 0012	6.3	1/4	1.2 x 8.0	39	11	1 (10)
7026 0016	6.3	1/4	1.6 x 10.0	39	16	1 (10)
7026 1008	8.0	5/16	0.8 x 5.5	39	11	1 (5)
7026 1010	8.0	5/16	1.0 x 7.0	39	12	1 (5)
7026 1012	8.0	5/16	1.2 x 8.0	39	14	1 (5)
7026 1016	8.0	5/16	1.6 x 9.0	39	15	1 (5)
7026 1020	8.0	5/16	2.0 x 12.0	39	24	1 (5)

7027 Bits (PH)



- For cross slot screws Philips Recess (DIN 3128)
- For use with air or electric power tools, with hexagon drive 6.3 mm (1/4") or 8 mm (5/16")
- Drive according to DIN 3126-C / ISO 1173-C
- 6.3 mm (1/4") in plastic box (10 pcs), 8 mm (5/16") in polybag (5 pcs)








- Material: High grade tool steel, grey



Art. Code	mm	"	PH	l mm	g	
7027 0001	6.3	1/4	1	25	5	1 (10)
7027 0002	6.3	1/4	2	25	5	1 (10)
7027 0003	6.3	1/4	3	25	5	1 (10)
7027 0004	6.3	1/4	4	32	12	1 (10)
7027 1001	8.0	5/16	1	32	10	1 (5)
7027 1002	8.0	5/16	2	32	10	1 (5)
7027 1003	8.0	5/16	3	32	11	1 (5)
7027 1004	8.0	5/16	4	38	14	1 (5)

7027 Bits (PZ)








- For cross slot screws Supa Pozidriv
- For use with air or electric power tools, with hexagon drive 6.3 mm (1/4") or 8 mm (5/16")
- Drive according to DIN 3126-C / ISO 1173-C
- 6.3 mm (1/4") in plastic box (10 pcs), 8 mm (5/16") in polybag (5 pcs)
- Material: High grade tool steel, grey

						
Art. Code	mm	"	PZ	l mm	g	
7027 5001	6.3	1/4	1	25	5	1 (10)
7027 5002	6.3	1/4	2	25	5	1 (10)
7027 5003	6.3	1/4	3	25	5	1 (10)
7027 5004	6.3	1/4	4	25	5	1 (10)
7027 6001	8.0	5/16	1	32	10	1 (5)
7027 6002	8.0	5/16	2	32	10	1 (5)
7027 6003	8.0	5/16	3	32	11	1 (5)
7027 6004	8.0	5/16	4	38	14	1 (5)



7028 Bits (Hex)








- For hexagon screws (DIN 7426 / ISO 3109)
- For use with air or electric power tools, with hexagon drive 6.3 mm (1/4") or 8 mm (5/16")
- Drive according to DIN 3126-C / ISO 1173-C
- 6.3 mm (1/4") in plastic box (10 pcs), 8 mm (5/16") in polybag (5 pcs)
- Material: High grade tool steel, grey

						
Art. Code	mm	"	mm	l mm	g	
7028 0030	6.3	1/4	3	25	5	1 (10)
7028 0040	6.3	1/4	4	25	5	1 (10)
7028 0050	6.3	1/4	5	25	6	1 (10)
7028 0060	6.3	1/4	6	25	6	1 (10)
7028 0080	6.3	1/4	8	25	9	1 (10)
7028 1030	8.0	5/16	3	30	10	1 (5)
7028 1040	8.0	5/16	4	30	10	1 (5)
7028 1050	8.0	5/16	5	30	10	1 (5)
7028 1060	8.0	5/16	6	30	11	1 (5)
7028 1080	8.0	5/16	8	30	12	1 (5)
7028 1100	8.0	5/16	10	30	15	1 (5)



7029 Bits (XZN)

- For multi-point screws XZN
- For use with air or electric power tools, with hexagon drive 6.3 mm (1/4") or 8 mm (5/16")
- Drive according to DIN 3126-C / ISO 1173-C
- 6.3 mm (1/4") in plastic box (10 pcs), 8 mm (5/16") in polybag (5 pcs)
- Material: High grade tool steel, grey

						
Art. Code	mm	"		l mm	g	
7029 0040	6.3	1/4	M4	28	5	1 (5)
7029 0050	6.3	1/4	M5	28	5	1 (5)
7029 1060	8.0	5/16	M6	28	10	1 (5)
7029 1080	8.0	5/16	M8	28	10	1 (5)
7029 1100	8.0	5/16	M10	32	10	1 (5)
7029 1120	8.0	5/16	M12	36	15	1 (5)
7029 1140	8.0	5/16	M14	38	15	1 (5)



7030 Bits (RIBE®-CV)



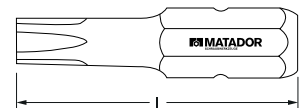
- For multi-spline screws RIBE® CV
- For use with air or electric power tools, with hexagon drive 6.3 mm (1/4") or 8 mm (5/16") long type
- Drive according to DIN 3126-C / ISO 1173-C
- 6.3 mm (1/4") in plastic box (10 pcs), 8 mm (5/16") in polybag (5 pcs)
- Material: High grade tool steel, grey

Art. Code	mm	"		l mm	g	
7030 0050	6.3	1/4	M5	32	5	1 (5)
7030 0060	6.3	1/4	M6	32	5	1 (5)
7030 0080	6.3	1/4	M8	32	10	1 (5)
7030 0100	6.3	1/4	M10	32	10	1 (5)
7030 1080	8.0	5/16	M8	100	10	1 (5)
7030 1100	8.0	5/16	M10	100	15	1 (5)
7030 1120	8.0	5/16	M12	100	20	1 (5)
7030 1140	8.0	5/16	M14	100	30	1 (5)
7030 1160	8.0	5/16	M16	100	55	1 (5)

7032 Bits (TORX®)



- For recessed TORX® screws
- For use with air or electric power tools, with hexagon drive 6.3 mm (1/4") or 8 mm (5/16")
- Drive according to DIN 3126-C / ISO 1173-C
- 6.3 mm (1/4") in plastic box (10 pcs), 8 mm (5/16") in polybag (5 pcs)
- Material: High grade tool steel, grey

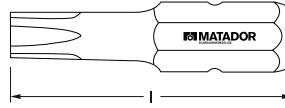


Art. Code	mm	"		l mm	g	
7032 0060	6.3	1/4	T6	25	4	1 (10)
7032 0070	6.3	1/4	T7	25	4	1 (10)
7032 0080	6.3	1/4	T8	25	4	1 (10)
7032 0090	6.3	1/4	T9	25	4	1 (10)
7032 0100	6.3	1/4	T10	25	4	1 (10)
7032 0150	6.3	1/4	T15	25	5	1 (10)
7032 0200	6.3	1/4	T20	25	5	1 (10)
7032 0250	6.3	1/4	T25	25	5	1 (10)
7032 0270	6.3	1/4	T27	25	5	1 (10)
7032 0300	6.3	1/4	T30	100	5	1 (10)
7032 0400	6.3	1/4	T40	100	6	1 (10)
7032 1250	8.0	5/16	T25	100	10	1 (5)
7032 1270	8.0	5/16	T27	100	10	1 (5)
7032 1300	8.0	5/16	T30	100	11	1 (5)
7032 1400	8.0	5/16	T40	100	12	1 (5)
7032 1450	8.0	5/16	T45	100	13	1 (5)
7032 1500	8.0	5/16	T50	100	15	1 (5)
7032 1550	8.0	5/16	T55	100	16	1 (5)

7033 Bits (TORX® with pilot)

- For recessed TORX® screws with pilot
- For use with air or electric power tools, with hexagon drive 6.3 mm (1/4") or 8 mm (5/16")
- Drive according to DIN 3126-C / ISO 1173-C
- 6.3 mm (1/4") in plastic box (10 pcs), 8 mm (5/16") in polybag (5 pcs)

- Material: High grade tool steel, grey

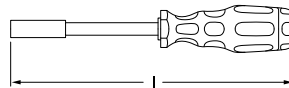


Art. Code	mm	"		l mm	g	
7033 0100	6.3	1/4	TR10	25	5	1 (5)
7033 0150	6.3	1/4	TR15	25	5	1 (5)
7033 0200	6.3	1/4	TR20	25	5	1 (5)
7033 0250	6.3	1/4	TR25	25	5	1 (5)
7033 0270	6.3	1/4	TR27	25	5	1 (5)
7033 0300	6.3	1/4	TR30	25	5	1 (5)
7033 0400	6.3	1/4	TR40	25	5	1 (5)
7033 1250	8.0	5/16	TR25	100	10	1 (5)
7033 1270	8.0	5/16	TR27	100	10	1 (5)
7033 1300	8.0	5/16	TR30	100	11	1 (5)
7033 1400	8.0	5/16	TR40	100	12	1 (5)
7033 1450	8.0	5/16	TR45	100	13	1 (5)
7033 1500	8.0	5/16	TR50	100	15	1 (5)
7033 1550	8.0	5/16	TR55	100	16	1 (5)

0969 Magazine Bit Holder with 6 Bits

- Magazine Bit Holder
- With strong permanent magnet and 6 bits
- Handle red P.P. Plastic

- Material: High grade tool steel, grey

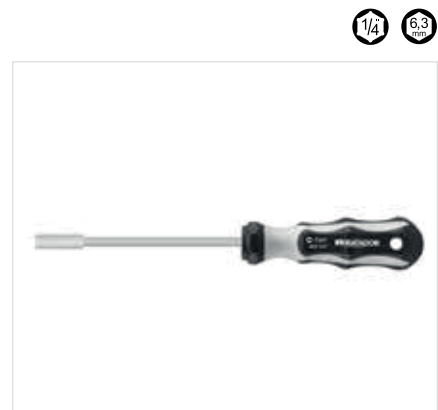
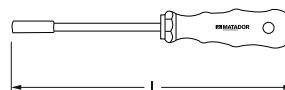


Art. Code	mm	"		l mm	g	
0969 2050	6.3	1/4		230	205	1
<ul style="list-style-type: none"> 7026 6.3 (1/4) 1,2 x 6,5 x 25 mm 7027 6.3 (1/4) PH 2 7032 6.3 (1/4) T20 - T30 - T40 - T45 						

7047 Magnet-Bitholder 1/4"

- Magnet-Bitholder
- With dual component handle
- For 6,3 mm (1/4")-drive bits

- Material: Chrome Vanadium
- Blade: Chrome plated



Art. Code	mm	"		l mm	g	
7047 0001	6.3	1/4		235	220	5



Perfect for industry and workshops

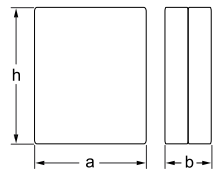
MATADOR professional bitboxes.



7050 Bits Assortment



- Professional Bitbox, 31-parts
- In metal box



Art. Code	h mm	a mm	b mm	g	
7050 0001	114	81	30	345	1
<ul style="list-style-type: none"> 6.3 (1/4) 60 mm 7026 3x 6.3 (1/4) 0.8 x 4.5 - 1.0 x 5.5 - 1.2 x 6.5 mm 7027 3x 6.3 (1/4) PH 1 - PH 2 - PH 3 7027 3x 6.3 (1/4) PZ 1 - PZ 2 - PZ 3 7028 3x 6.3 (1/4) 3 - 4 - 5 mm 7032 3x 6.3 (1/4) T10 - T15 - T20 - T25 - T30 - T40 					

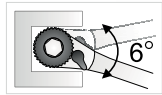
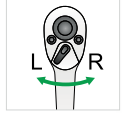
Art. Code	h mm	a mm	b mm	g	
7050 0002	114	81	30	345	1
<ul style="list-style-type: none"> 6.3 (1/4) 60 mm 7026 3x 6.3 (1/4) 0.8 x 4.5 - 1.0 x 5.5 - 1.2 x 6.5 mm 7027 3x 6.3 (1/4) PH 1 - PH 2 - PH 3 7027 3x 6.3 (1/4) PZ 1 - PZ 2 - PZ 3 7028 3x 6.3 (1/4) 3 - 4 - 5 mm 7032 3x 6.3 (1/4) T10 - T15 - T20 - T25 - T30 - T40 					

The solution for congested spaces.

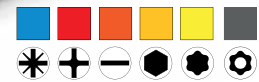
MATADOR professional bitbox with mini ratchet.



With bit ratchet.



60° Fine-toothed with 60 teeth for only 6° swivel angle.

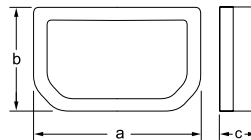


With 30 standard bits (25 mm) with **color guide system** for quick identification.

7052 Bit Assortment

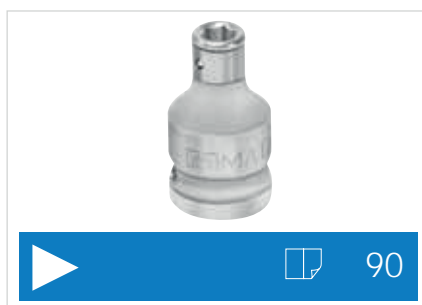
- Assortment with 30 Bits
- With mini reversible ratchet for narrow spaces (insertion depth only 25,5 mm!)
- Adaptor
- In plastic box
- With belt clip

- Material Bits: High grade tool steel, grey



Art. Code	b mm	a mm	c mm	g	
7052 0002	70	105	40	95	1

- 7026 6,3 (1/4) 3 - 4 - 5 - 6 mm
- 7027 6,3 (1/4) PH 1 - 2 x PH 2 - 2 x PH 3
- 7027 6,3 (1/4) PZ 1 - PZ 2 - PZ 3
- 7028 6,3 (1/4) 3 - 4 - 5 - 6 mm
- 7032 6,3 (1/4) T10 - T15 - T20 - T25 - T27 - T30 - T40
- 7033 6,3 (1/4) T10 - T15 - T20 - T25 - T27 - T30 - T40
- 2062



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- 297 Magnetic Pick Up Tools
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- 297 Magnetic Pick up and Inspection Tools
- 298 Gripping Tool with Claw
- 298 Magnetic Parts Bowl
- 298 Knee pads
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- 299 Hopper
- 299 Plastic Oiler
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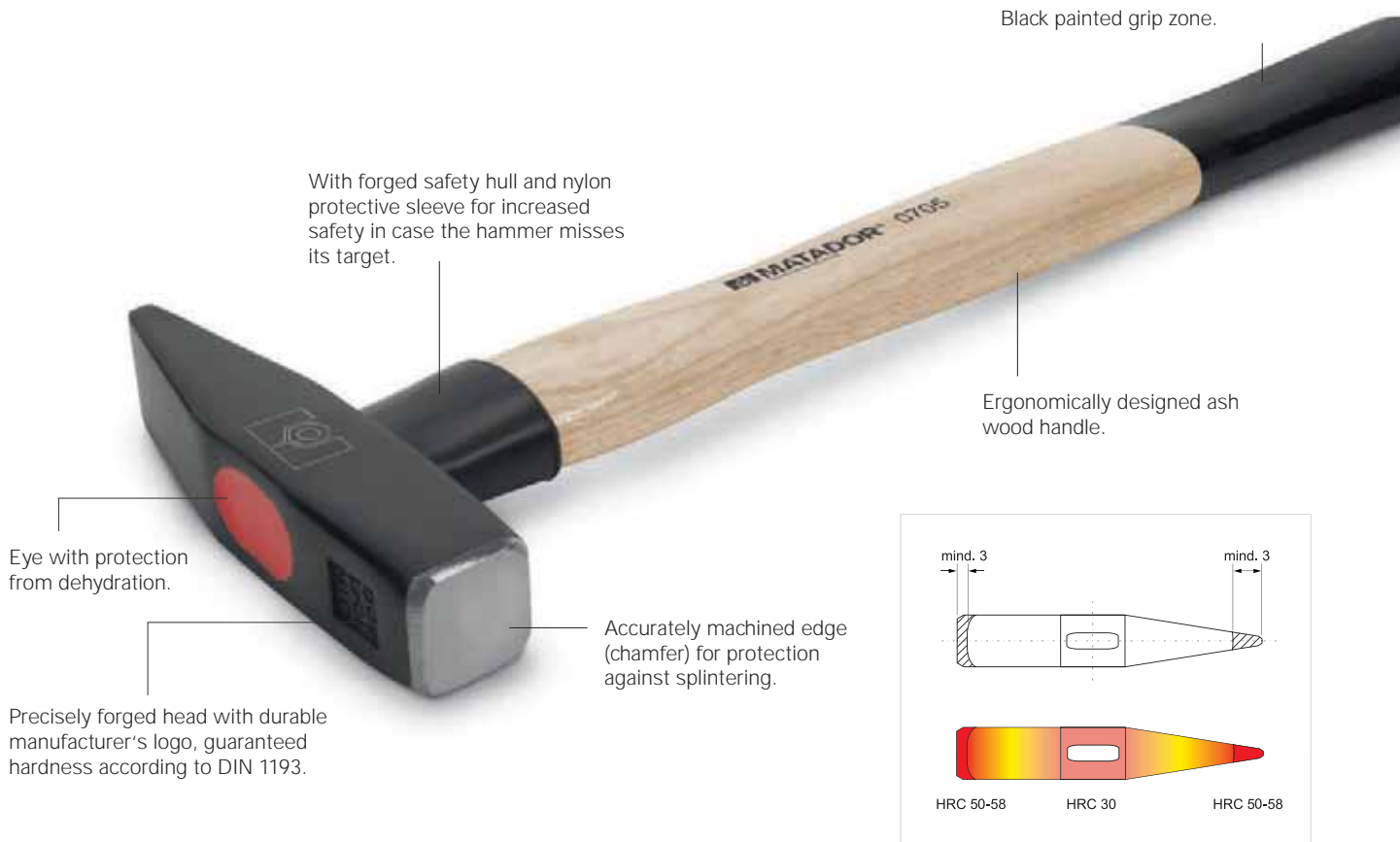


Miscellaneous Tools.

Be a MATADOR.

Safe, ergonomically designed and convenient. Strike by strike.

MATADOR Hammers.



Black painted grip zone.

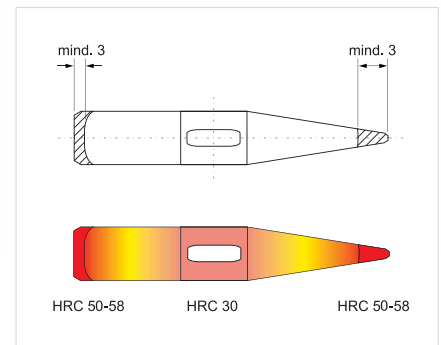
With forged safety hull and nylon protective sleeve for increased safety in case the hammer misses its target.

Ergonomically designed ash wood handle.

Eye with protection from dehydration.

Accurately machined edge (chamfer) for protection against splintering.

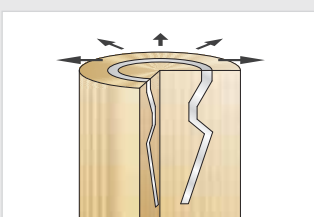
Precisely forged head with durable manufacturer's logo, guaranteed hardness according to DIN 1193.



Secure fitting of handle and hammer head.

On principle MATADOR hammer handles are fitted to the hammer head by a **ring wedge**.

Other than a flat wedge the ring wedge presses the handle wood evenly to all sides to the eye of the hammer head and **thus allows a tight fit**. The integrated barbed hook makes sure that the hammer head does not become loose unintentionally even after several hundreds of blows.



Controlled hardness and perfect cut.

Hammers have to have the „right“ hardness. According to DIN 1193 the hardness at the face (the flat end) and pein has to be **50 - 58 HRC**. This value makes sure that the hammer is not too hard to avoid splintering when in use. On the other hand the head must not be too soft as buckles and beads at the face would occur.

Moreover DIN 1193 defines the cut of the two hammer ends: the face has to be chamfered all-round. The pein should be evenly blunt and chamfered at the sides.

MATADOR hammers are ground fully automatically on state-of-the-art machines and thus ensure a perfect protection from splintering even under heavy stress.

Only certified wood.

The right wood for striking tools is regulated under DIN 68340. Preferred wood types are hickory and ash. For our hammers with wooden handle we only use ash or hickory wood from controlled cultivation.

Ash is the most common wood type used for quality hammers. Ash is relatively inexpensive break resistant to a large extent short-fibered in structure.

In case of breakage the ash handle breaks in two parts because at the break line the wood cannot be held together.

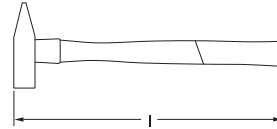
Hickory, on the contrary, has longer fibers and is thus 3 to 4 times steadier and more elastic (= more stress-resistant) than ash. However, it is also more expensive.

Safety Instructions.

- Always wear eye protection goggles and protective gloves.
- For optimal impact the position for your hands on the handle should be as far as possible away from the hammer head.
- Always keep the hammer handle free from lubricants.
- Never misuse a hammer as a lever.
- Only use the work faces of a hammer. Never use the sides.
- Do not store hammers with wooden handles in a warm and dry environment. The hammer might lose moisture and shrink. Before using the hammer please check that the hammer head is tightly and securely fitting to the shaft.
- Never use steel hammers to work on workpieces with a hardness exceeding 46 HRC. For this purpose use MATADOR plastic hammers or non-rebound hammers.

0705 Engineer's Hammers

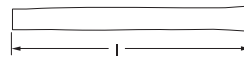
- German pattern
 - Forged hammer head
 - Induction hardened
 - Sideways smoothed and epoxy powdered
 - Handle fixed with round steel wedge and resin
 - With safety collar (tapered)
- Standards: DIN 1041 / handle DIN 5111
 - Material: Head C 45, handle ash
 - Surface: Black painted hand end



Art. Code	g	l mm	g	
0705 0200	200	275	250	6
0705 0300	300	300	370	6
0705 0400	400	310	460	6
0705 0500	500	320	590	6
0705 0800	800	350	910	2
0705 1000	1000	355	1170	2
0705 1500	1500	380	1700	2
0705 2000	2000	400	2285	1

0705 Spare Handles

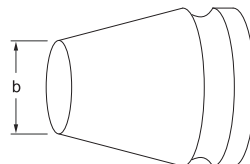
- Ash handle for engineer's hammers
- Standard: DIN 5111
 - Material: Ash



Art. Code	g	l mm	g	
0705 0201	200	275	57	6
0705 0301	300	300	71	6
0705 0401	400	310	100	6
0705 0501	500	320	105	6
0705 0801	800	350	149	2
0705 1001	1000	355	157	2
0705 1501	1500	380	185	2
0705 2001	2000	400	285	1

0705 Spare Collars

- Collars for engineer's hammers



Art. Code	g	b mm	g	
0705 0202	200	8	2	6
0705 0302	300	9	2	6
0705 0402	400	10	3	6
0705 0502	500	12	4	6
0705 0802	800	14	7	2
0705 1002	1000	15	8	2
0705 1502	1500	15	8	2
0705 2002	2000	16	11	1

0707 Club Hammers



- German pattern
- Forged hammer head
- Induction hardened
- Sideways smoothed and epoxy powdered
- Handle fixed with round steel wedge and resin
- With safety collar (tapered)
- Standard: DIN 6475 / Handle DIN 5135
- Material: Head C 45, handle ash
- Surface: Black painted hand end

Art. Code	g	l mm	g	
0707 1000	1000	260	1180	1
0707 1500	1500	280	1690	1
0707 2000	2000	300	2200	1

0708 Copper Hammers



- For non-sparking stroke
- Forged hammer head
- Handle fixed with round steel wedge
- Ash handle

Art. Code	g	l mm	g	
0708 0300	300	260	370	6
0708 0400	400	260	500	6
0708 0500	500	270	600	6
0708 0800	800	280	900	2
0708 1000	1000	280	1100	2

0710 Engineer's Ball Pein Hammers



- English pattern
- Forged hammer head
- Induction hardened
- Sideways smoothed and epoxy powdered
- Handle fixed with round steel wedge and resin
- Material: Head C 45, handle ash

Art. Code	lbs	l mm	g	
0710 0002	1/2	300	350	6
0710 0003	3/4	330	500	6
0710 0004	1	360	550	6
0710 0006	1.1/2	380	850	2
0710 0008	2	410	1100	2

0711 Sledge Hammers

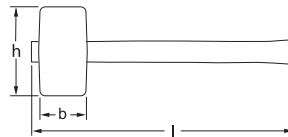


- Forged hammer head
- Sideways smoothed and epoxy powdered
- Handle fixed with round steel wedge and resin
- With safety collar (tapered)
- Standard: DIN 1042 / Handle DIN 5112
- Material: Head C 45, handle ash
- Surface: Hand end black painted

Art. Code	g	l mm	g	
0711 0300	3000	610	3500	1
0711 0400	4000	710	4600	1
0711 0500	5000	810	5600	1
0711 0600	6000	810	6500	1
0711 0800	8000	910	8500	1
0711 1000	10000	910	10500	1

0738 Rubber Mallets, soft

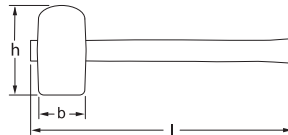
- Soft version according to DIN 5128-60
- 60 Shore D hardness
- With two flat surfaces
- With ash handle
- Standard: DIN 5128-60
- Material: Head rubber, handle ash



Art. Code	h mm	b mm	l mm	g	
0738 0001	90	54	320	300	1
0738 0002	113	64	340	520	1
0738 0003	127	74	380	770	1
0738 0004	139	90	380	1150	1



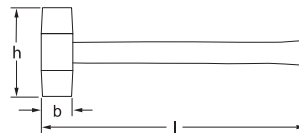
- Soft version according to DIN 5128-60
- With one flat and one curved surface
- With ash handle



Art. Code	h mm	b mm	l mm	g	
0738 0005	113	64	340	520	1

0700 Plastic Hammers

- With exchangeable heads made from red shatter-proof cellulose acetate
- 65 Shore D hardness
- With ash handle



Art. Code	h mm	b mm	l mm	g	
0700 0001	75	22	255	150	6
0700 0002	90	27	270	200	6
0700 0003	97	32	280	350	6
0700 0004	103	35	290	450	6
0700 0005	111	40	320	600	2
0700 0006	120	50	340	900	2



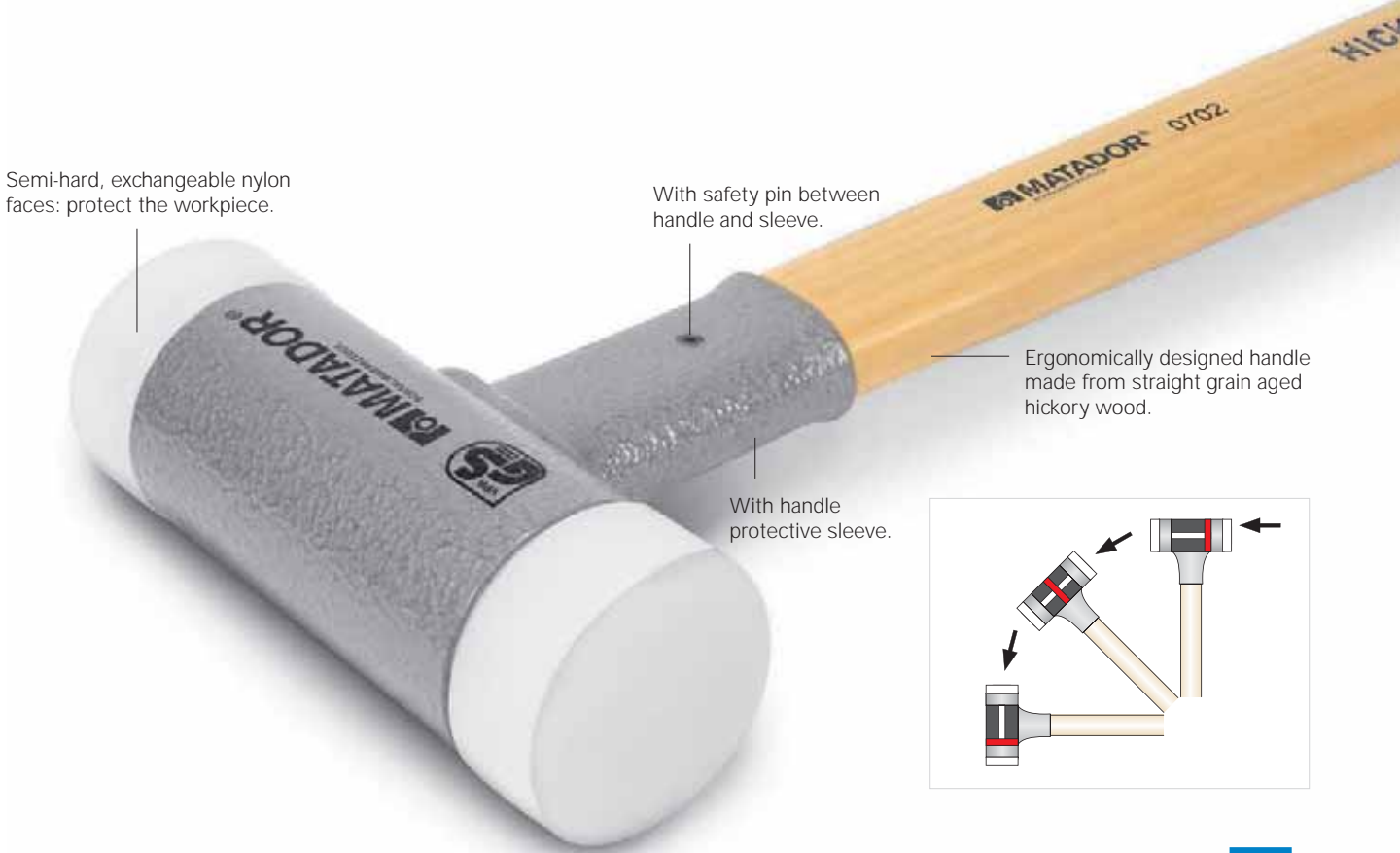
- Spare heads (1 pair)
- Please heat up before assembly

Art. Code	b mm	g	
0700 1001	22	30	6
0700 1002	27	30	6
0700 1003	32	35	6
0700 1004	35	60	6
0700 1005	40	65	2
0700 1006	50	130	2



Joint-friendly with high impact.

Recoilless Hammers. Higher impact than standard hammers due to special filling.

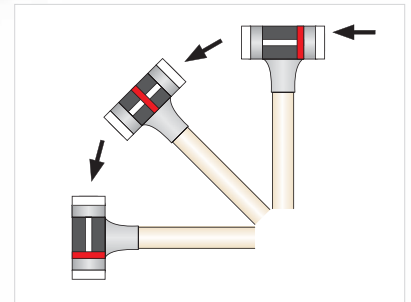


Semi-hard, exchangeable nylon faces: protect the workpiece.

With safety pin between handle and sleeve.

Ergonomically designed handle made from straight grain aged hickory wood.

With handle protective sleeve.



Practically no recoil.

In jobs where hammers are used frequently wrists, tendons and muscles are exposed to very high stress when working with standard steel hammers.

MATADOR recoilless hammers are thus perfect problem solvers that - thanks to their special filling in the hammer head - allow practically recoilless work.

Tests with a 500 g hammer have shown that the **vibrational stress** at the handle in a blow on steel is **reduced by more than 65%**. At the same time the kinetic energy of the steel shot inside the hammer head increase the **impact by more than 20%** compared to standard steel hammers.

More impact with less effort.

Especially wear-resistant hammer faces.

MATADOR hammer faces are made of semi-hard polyurethane and are at the same time colorfast and resistant to wear.

The splinterproof faces are easily exchangeable so that the hammer still keeps its original strength even after intense use.

Cost-saving and health-friendly.

MATADOR recoilless hammers go easy on your budget as well as on your health. In most cases they can even replace the classical engineer's hammer and are definitely the more intelligent choice.



→ Practically recoilless and precise blows.

Why more comfort?

MATADOR recoilless hammers are filled with special steel shots inside the hammer head.

During each blow the steel balls make for 25% more mass and thus give the blow additional impact. After the blow the hammer head practically „sticks“ to the workpiece and there is no recoil, especially on hard workpieces.

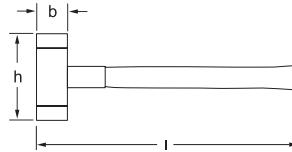
Recoilless hammers go easy on your wrists and tendons.

Safety Instructions:
Always wear eye protecting goggles and protective gloves!



0702 Non-rebound Mallets

- With hickory handle
- With exchangeable splinter-proof, shatter-proof and wear-resistant nylon faces
- For automobile assembly and repair work, positioning of work pieces in the vice, tent and hall construction, car body work, repair and maintenance work, straightening work, housing assembly, assembly of sharp-edged work pieces, joining of work pieces, sheet



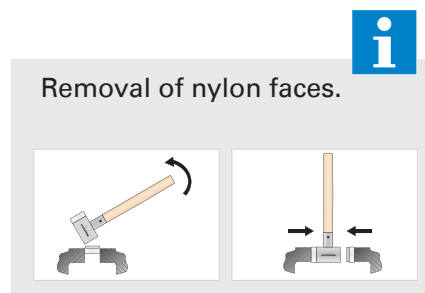
Art. Code	h mm	h "	b mm	b "	l mm	l "	g
0702 0250	105	4.12	25	0.98	305	11.97	325
0702 0300	110	4.32	30	1.18	330	12.95	460
0702 0350	110	4.32	35	1.37	335	13.15	560
0702 0400	115	4.51	40	1.57	360	14.13	715
0702 0500	120	4.71	50	1.96	370	14.52	990
0702 0600	145	5.69	60	2.36	370	14.52	1705
0702 0700	150	5.89	70	2.75	370	14.52	2215
0702 0800	168	6.59	80	3.14	380	14.91	3210



0702 Spare Faces

- Spare nylon faces (single)

Art. Code	mm	"	g
0702 0251	25	0.98	11
0702 0301	30	1.18	17
0702 0351	35	1.37	23
0702 0401	40	1.57	33
0702 0501	50	1.96	55
0702 0601	60	2.36	95
0702 0701	70	2.75	130
0702 0801	80	3.14	195



0702 Spare Handles

- Spare hickory handles (single)

Art. Code	mm	l mm	g
0702 0252	25	280	80
0702 0302	30	300	100
0702 0352	35	300	100
0702 0402	40	315	140
0702 0502	50	315	140
0702 0602	60	300	190
0702 0702	70	300	190
0702 0802	80	300	190

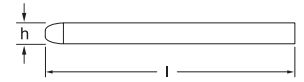


0712 Number Punches



- 9 numbers (, 0 - 9*)
- For labelling work pieces with a strength of 600 - 800 N/mm²
- Hardness at the engraving: 58 - 60 HRC
- In unbreakable, blue plastic box

- Standard: Characters acc. DIN 1451
- Material: Tool steel
- Surface: Silky matt



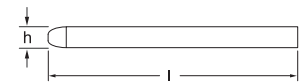
Art. Code	mm	l mm	h mm	g	
0712 0040	4	65	7	200	1
0712 0050	5	65	8	300	1
0712 0060	6	70	9	400	1
0712 0080	8	75	11	600	1

0712 Letter Punches



- 27 capital letters (, A-Z*, + , &*)
- For labelling work pieces with a strength of 600 - 800 N/mm²
- Hardness at the engraving: 58 - 60 HRC
- In unbreakable, blue plastic box

- Standard: Characters acc. DIN 1451
- Material: Tool steel
- Surface: Silky matt



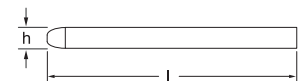
Art. Code	mm	l mm	h mm	g	
0712 1040	4	65	7	600	1
0712 1050	5	65	8	800	1
0712 1060	6	70	9	1200	1
0712 1080	8	75	11	1850	1

0712 Letter Punches / Numbers PRO



- 9 numbers (, 0 - 9*)
- For labelling work pieces with a strength of 1200 N/mm²
- Hardness at the engraving: 58 - 60 HRC
- In unbreakable, blue plastic box

- Standard: Characters acc. DIN 1451
- Material: Tool steel
- Surface: Silky matt



Art. Code	mm	l mm	h mm	g	
0712 0140	4	65	7	200	1
0712 0150	5	65	8	300	1
0712 0160	6	70	9	400	1
0712 0180	8	75	11	600	1

- 27 capital letters (, A-Z*, + , &*)

Art. Code	mm	l mm	h mm	g	
0712 1140	4	65	7	600	1
0712 1150	5	65	8	800	1
0712 1160	6	70	9	1200	1
0712 1180	8	75	11	1850	1

Ideal for repair of soft materials.

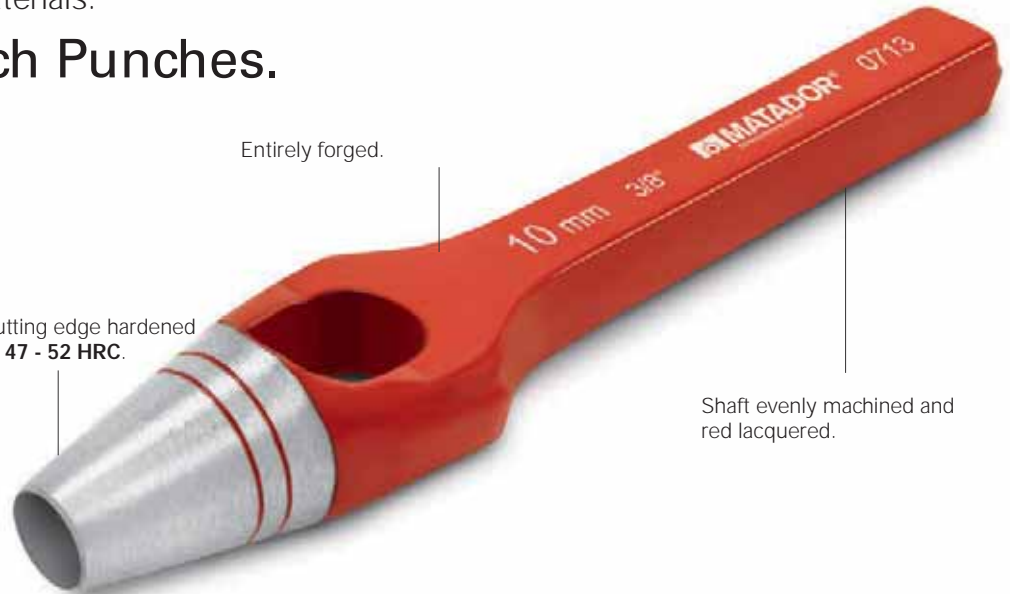
MATADOR Arch Punches.

For stamping out felt, carpets, leather, rubber, sealing materials and other soft materials.

Entirely forged.

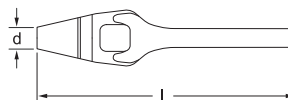
Cutting edge hardened to 47 - 52 HRC.

Shaft evenly machined and red lacquered.

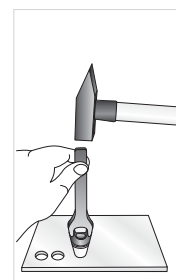


0713 Arch Punches

- Standard: DIN 7200 Form A
- Material: C 35 / C 45
- Surface: Red lacquered



Art. Code	d mm	d"	l mm	g	
0713 0020	2	1/16	105	47	10
0713 0030	3	1/8	105	47	10
0713 0040	4	5/32	105	48	10
0713 0050	5	3/16	110	55	10
0713 0060	6	7/32	110	68	10
0713 0070	7	1/4	120	92	10
0713 0080	8	5/16	120	95	10
0713 0090	9	11/32	120	97	10
0713 0100	10	3/8	130	129	10
0713 0110	11	7/16	130	135	10
0713 0120	12	15/32	130	135	10
0713 0130	13	1/2	140	165	10
0713 0140	14	9/16	140	169	5
0713 0150	15	19/32	140	173	10
0713 0160	16	5/8	140	175	5
0713 0170	17	21/32	145	226	10
0713 0180	18	11/16	145	228	10
0713 0190	19	3/4	145	228	10
0713 0200	20	25/32	160	317	5
0713 0220	22	7/8	160	313	5
0713 0250	25	1	170	388	5
0713 0300	30	1 3/16	190	575	5

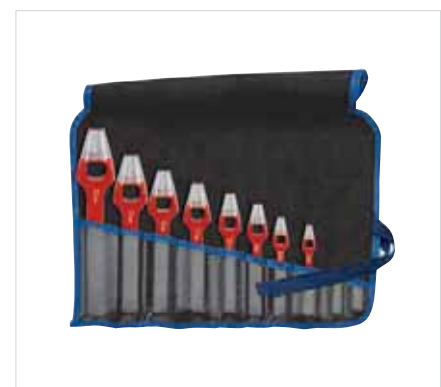


- All important arch punches in practical roll bag made of black synthetic leather

- With strap sealing, 8 compartments

Art. Code	g	
0713 9080	1475	1

Content 0713 3 - 6 - 8 - 10 - 12 - 16 - 20 - 25 mm



Hot forged and hardened as a whole.

MATADOR Striking Tools.



Tried and tested industrial quality for long service life.

It goes without saying that MATADOR striking tools comply with the DIN standards with respect to their form and workmanship.

Chisels, center punches, drift punches and parallel pin punches are made of a **special chrome vanadium air hardening steel**. All striking tools are entirely quenched and tempered and thus **resist hard working stress** and guarantee an **especially long service life**.

Thanks to the additional inductive hardening of the striking head to 35 - 46 HRC no splintering and beading will occur.

Even in hard industrial working stress MATADOR striking tools will not break.

In case of low wear: Regrinding.

Dulled edges can be reground several times. Make sure that grinding intervals are short and avoid excessive grinding heat in order not to impair the hardness (ideal: water cooling).



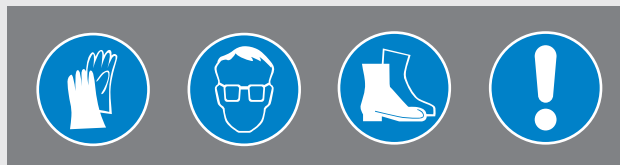
In case of heavy wear: Reforging.

In case of heavy wear and tear the cutting edges can be reforged at any time: Pay attention to the right heating of the forging range (cutting edge + 30 mm) up to 950 - 1050°C. The optimal hardening temperature is 790 - 880°C, then immediately quench in oil and heat up to a temperature of approx. 280°C. Ready.

Safety Instructions.

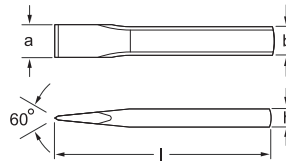
The following working safety requirements should be strictly observed due to high risk of injury involved in the improper use of hand striking tools:

- Always wear eye protection goggles.
- Select the right striking tool and the appropriate hammer size depending to the application.
- Avoid working on hardened material exceeding 40 HRC due to the risk of being seriously injured through splintering.
- Avoid the striking head to be soiled by lubricants.
- Remove burrs at the striking head regularly through grinding.
- Check the cutting edge of the tool before starting to work. Worn cutting edges have to be reground.
- Only use striking tools for their intended purpose.



0714 Flat Cold Chisels

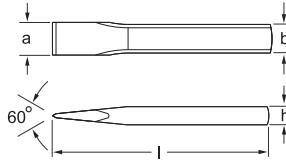
- For general and coarse chiselling work at brickwork, concrete or massive stone
- With regrindable cutting edge
- Through-hardened cutting edge
- Standard: DIN 6453
- Material: Special chrome vanadium air hardening steel
- Surface: Black lacquered



Art. Code	l mm	a mm	b x h mm	g	
0714 0125	125	18	17 x 11	150	10
0714 0150	150	18	17 x 11	205	10
0714 0175	175	21	20 x 12	280	10
0714 0200	200	24	23 x 13	370	10
0714 0250	250	25	23 x 13	500	10
0714 0300	300	26	23 x 13	600	5

0714 Flat Cold Chisels with Hand Protecting Grip

- For effective hand protection if hammer misses its target
- Protecting grip made of impact-resistant plastic
- Ergonomic design
- Extra broad protection plate
- No rolling away through cornered design
- With flat cold chisels for general and coarse chiselling work at brickwork, concrete or massive stone
- With regrindable cutting edge
- Through-hardened cutting edge
- Standard: DIN 6453
- Material: Special chrome vanadium air hardening steel
- Surface: Black lacquered



Art. Code	l mm	a mm	b x h mm	g	
0714 1250	250	25	23 x 13	605	10
0714 1300	300	26	23 x 13	705	10

0714 Flat Cold Chisels, Set

- All important flat cold chisels in practical roll bag made of black synthetic leather
- With strap sealing, 5 compartments
- Standard: DIN 6453
- Material: Special chrome vanadium air hardening steel
- Surface: Black lacquered



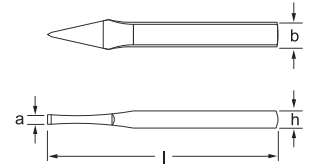
Art. Code	g	
0714 9050	1500	1
Content	0714 125 - 150 - 175 - 200 - 250 mm	

0715 Cross-cut Chisels



- For cutting metal
- For narrow grooves or inner edges
- With regrindable cutting edge
- Through-hardened cutting edge

- Standard: DIN 6451
- Material: Special chrome vanadium air hardening steel
- Surface: Black lacquered



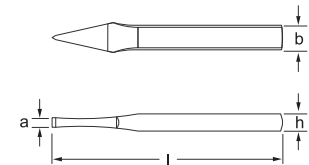
Art. Code	l mm	a mm	b x h mm	g	
0715 0125	125	5	17 x 11	100	10
0715 0150	150	6	17 x 11	180	10
0715 0175	175	7	17 x 11	210	10
0715 0200	200	8	20 x 12	340	10
0715 0250	250	9	23 x 13	455	10

0715 Cross-cut Chisels with Hand Protecting Grip



- For effective hand protection if hammer misses its target
- Protecting grip made of impact-resistant plastic
- Ergonomic design
- Extra broad protection plate
- No rolling away through cornered design
- With cross-cut chisel for cutting metal
- For narrow grooves or inner edges
- With regrindable cutting edge
- Through-hardened cutting edge

- Standard: DIN 6451
- Material: Special chrome vanadium air hardening steel
- Surface: Black lacquered



Art. Code	l mm	a mm	b x h mm	g	
0715 1250	250	9	23 x 13	560	10

0715 Cross-cut Chisels, Set



- All important cross-cut chisels in practical roll bag made of black synthetic leather
- With strap sealing, 5 compartments

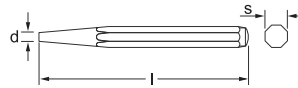
- Standard: DIN 6451
- Material: Special chrome vanadium air hardening steel
- Surface: Black lacquered

Art. Code	g	
0715 9050	1400	1
Content	0715 125 - 150 - 175 - 200 - 250 mm	

0716 Drift Punches

- For punching holes into steel sheets
- With ground and polished surface
- With octagonal shaft
- Through-hardened cutting edge

- Standards: DIN 6458 Form B / D
- Material: Special chrome vanadium air hardening steel
- Surface: Black lacquered



Art. Code	d mm	s mm	l mm	g	
0716 0030	3	10	120	70	10
0716 0040	4	10	120	70	10
0716 0050	5	10	120	80	10
0716 0060	6	10	120	80	10
0716 0080	8	10	120	86	10
0716 0100	10	12	150	150	5



0716 Drift Punches, Set

- All important drift punches in practical black plastic holder
- For punching holes into steel sheets
- With ground and polished surface
- With octagonal shaft
- Through-hardened cutting edge

- Standards: DIN 6458 Form B / D
- Material: Special chrome vanadium air hardening steel
- Surface: Black lacquered

Art. Code	g	
0716 9060	1500	1

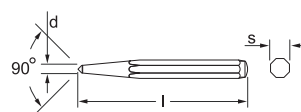
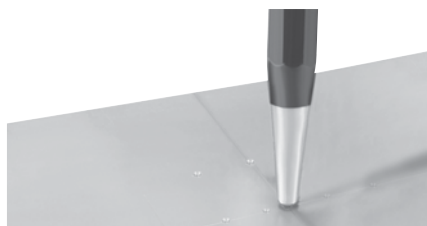
Content 0716 3 - 4 - 5 - 6 - 8 - 10 mm



0717 Center Punches

- For marking drilling positions on metal surfaces
- Ideal as centering support
- With ground and polished surface
- Through-hardened cutting edge

- Standard: DIN 7250
- Material: Special chrome vanadium air hardening steel
- Surface: Black lacquered



Art. Code	d mm	s mm	l mm	g	
0717 0040	4	10	120	70	10
0717 0050	5	12	120	105	10

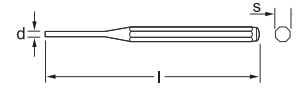


0718 Parallel Pin Punches



- For punching fastening elements like rivets, pins or bolts
- With ground and polished surface
- With rounded edges
- Through-hardened cutting edge

- Standard: DIN 6450 Form C
- Material: Special chrome vanadium air hardening steel
- Surface: Black lacquered



Art. Code	d mm	s mm	l mm	g	
0718 0020	2	10	150	65	10
0718 0030	3	10	150	70	10
0718 0040	4	10	150	70	10
0718 0050	5	10	150	75	10
0718 0060	6	10	150	80	10
0718 0080	8	12	150	115	10
0718 0100	10	12	150	125	10

0718 Parallel Pin Punches, Set



- All important parallel pin punches in practical black plastic holder

- Standard: DIN 6450 Form C
- Material: Special chrome vanadium air hardening steel
- Surface: Black lacquered

Art. Code	g	
0718 9060	800	1

Content 0718 2 - 3 - 4 - 5 - 6 - 8 mm

0718 Parallel Pin Punches, Set



- All important parallel pin punches in practical folding metal box

- Standard: DIN 6450 Form C
- Material: Special chrome vanadium air hardening steel
- Surface: Black lacquered

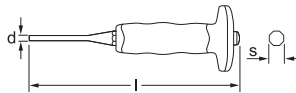


Art. Code	g	
0718 9160	800	1

Content 0718 2 - 3 - 4 - 5 - 6 - 8 mm

0718 Parallel Pin Punches XXL

- Especially for industry and utility vehicles
 - Extra long design
 - Hand protecting grip with 2-component handle
 - For punching fastening elements like rivets, pins or bolts
 - With ground and polished surface
 - With rounded edges
 - Through-hardened cutting edge
- Standard: DIN 6450 Form C
 - Material: Special chrome vanadium air hardening steel
 - Surface: Black lacquered

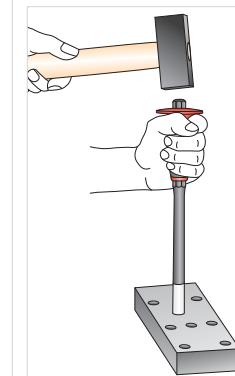


Art. Code	d mm	s mm	l mm	g	
0718 1080	8	14	225	245	5
0718 1100	10	14	240	280	5
0718 1120	12	14	260	325	5
0718 1140	14	18	275	490	5
0718 1160	16	18	290	570	5

- Practical set in carton box

Art. Code	g	
0718 9150	1500	1

Content **0718** 8 - 10 - 12 - 14 - 16 mm



0719 Tool Set

- Flat cold chisels, cross-cut chisel, center punch and taper punches in one set
- Material: Special chrome vanadium air hardening steel
- Surface: Black lacquered

Art. Code	g	
0719 9060	550	1

Content **0714** 125, 150 mm
0715 125 mm
0716 3, 4 mm
0717 4 mm



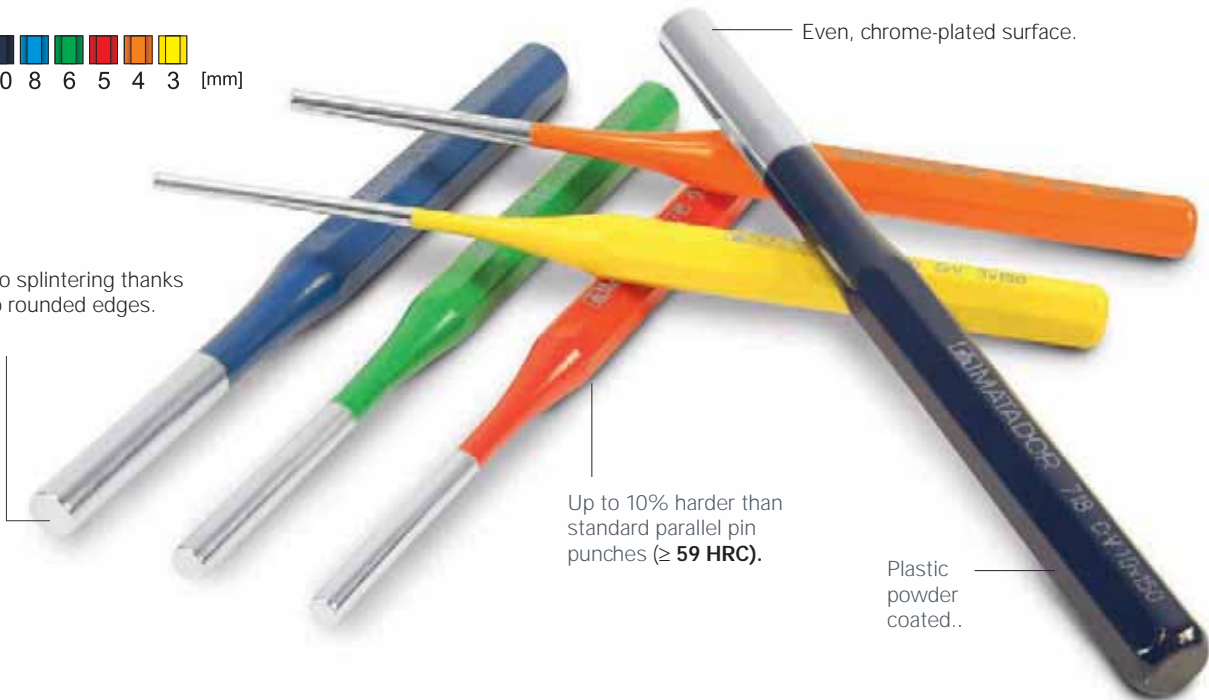
Extremely hard. Secure disassembly with highest precision.

MATADOR Parallel Pin Punches PRO. The next level of hardness and durability.

With color system for quick recognition of the correct size.



No splintering thanks to rounded edges.



Up to 10% harder than standard parallel pin punches (≥ 59 HRC).

Plastic powder coated..

More than meets the eye: Additional hardness.

Underneath their coating MATADOR parallel pin punches come out in their true colors.

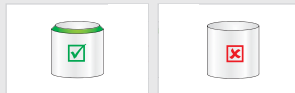
Made from high-alloyed tool steel and entirely hardened they are especially suitable for continuous industrial use.

Through the tempered striking head and a hardness of around 59 HRC you can work with MATADOR parallel pin punches in application fields where standard parallel pin punches have long given up.

Test yourself!

Rounded edges for increased safety.

All edges of MATADOR parallel pin punches are rounded fully automatically. Splintering and burr at the tip are almost entirely avoided.



This does not only save the work piece but also minimizes the risk of injury for the user. Even if the tools are overstressed they deform elastically and plastically. They do not suddenly break.

Improved surface.

Compared to many competitive products MATADOR parallel pin punches have a **grinded, polished and chrome-plated surface**.

This results in a low surface roughness which has the following advantages:

- low susceptibility to corrosion
- parallel pin punches can hardly get jammed in the drill hole
- extended service life and elasticity
- hardly any predetermined breaking points as surface notches are evened out

Why PRO?

All MATADOR striking tools are made of **special air hardening steel** that – after heating to 850 °C – hardens in still air.

The PRO series additionally has a **tempered striking head** and a chrome-plated and plastic powder coated surface. Thanks to **color guidance system** the different sizes can easily be recognized.

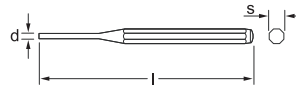
By the way, all parallel pin punches are produced with **minus tolerances** and thus jamming in the drill hole is avoided.



0718 Parallel Pin Punches PRO

- For punching fastening elements like rivets, pins or bolts
- With ground and polished surface
- With rounded edges
- Through-hardened cutting edge
- Standard: DIN 6450 Form C

- Material: Special air hardening steel
- Surface: Color powder coated



Art. Code	d mm	s mm	l mm	g	
0718 5020	2	10	150	65	10
0718 5030	3	10	150	70	10
0718 5040	4	10	150	70	10
0718 5050	5	10	150	75	10
0718 5060	6	10	150	80	10
0718 5080	8	12	150	115	10
0718 5100	10	12	150	125	10

0718 Parallel pin punches PRO

- All important parallel pin punches PRO in in practical folding metal box
- With ground and polished surface
- With rounded edges
- Through-hardened cutting edge

- Standard: DIN 6450 Form B / D
- Material: Special air hardening steel
- Surface: Color powder coated

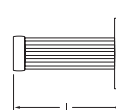


Art. Code	g	
0718 9560	1500	1

Content: 0718 3 - 4 - 5 - 6 - 8 - 10 mm

0714 Hand protecting grip

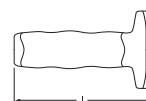
- Hand protecting grip
- For flat profiles and 8 point material



Art. Code	mm	mm	l mm	g	
0714 0995	20x12 - 26x13	16-20	110	105	5

0716 Hand protecting grip

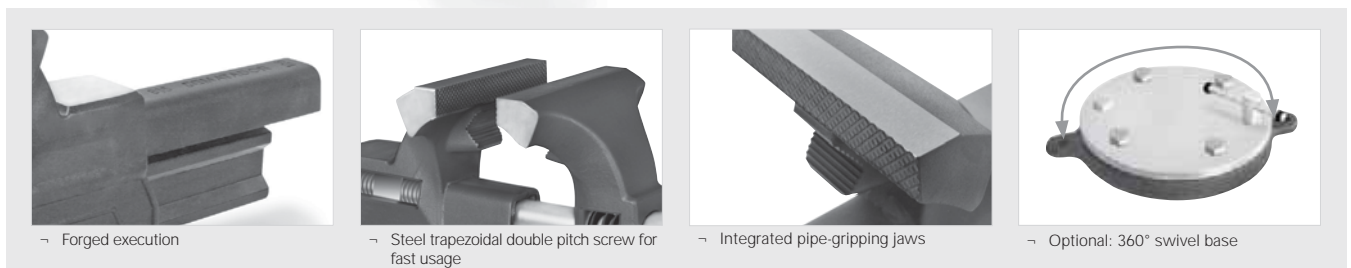
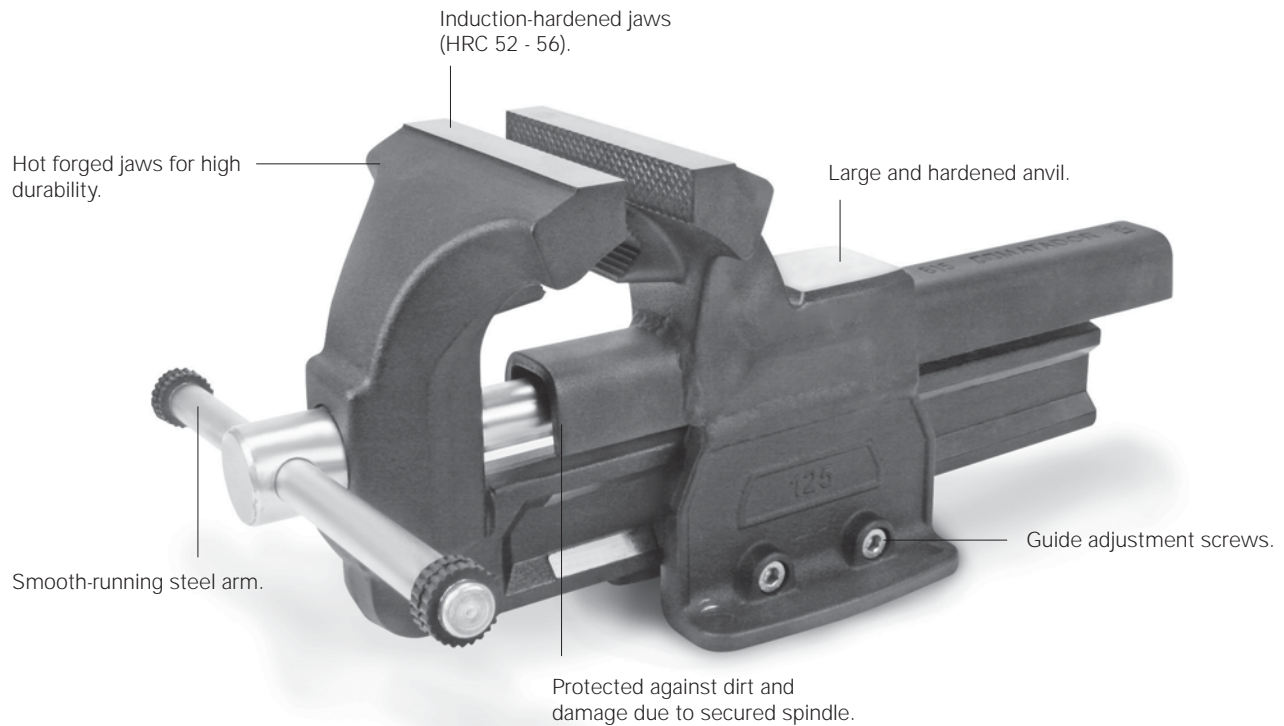
- Hand protecting grip for 8 point material
- With ergonomic 2-component handle



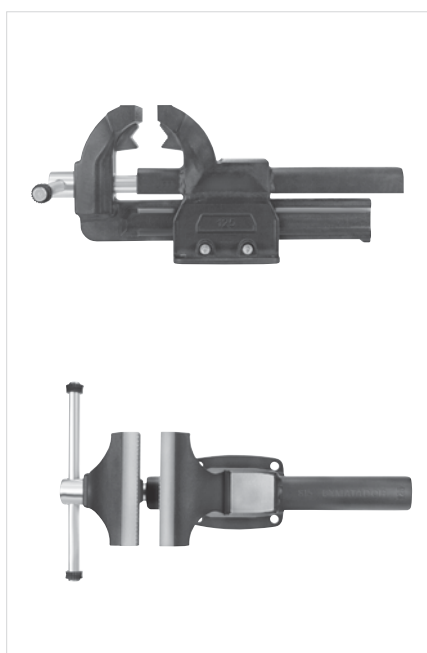
Art. Code	mm	l mm	g	
0716 0995	10	75	15	1
0716 0996	14	95	50	1
0716 0997	18	95	50	1

Drop-forged steel and precisely machined.

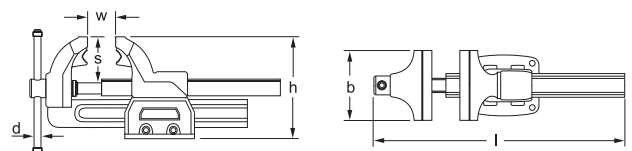
The MATADOR bench vice. A real classic.



0815 Parallel Bench Vice, forged



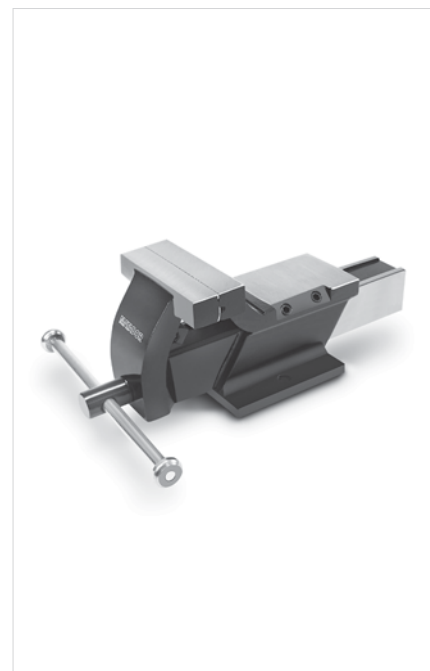
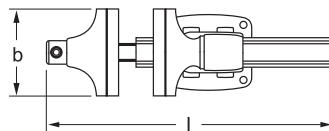
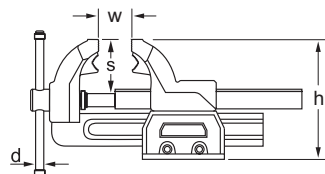
- Forged from high-quality steel and completely hardened for long durability
- Induction-hardened and knurled jaws
- Large and hardened anvil
- CNC machined and induction-hardened sliding surface
- Trapezoidal double pitch screw for quick and easy usage
- Integrated pipe-gripping jaws
- Material: Heat treated steel
- Surface: Black varnished



Art. Code	b mm	l mm	w mm	s mm	h mm	d mm	kg		
0815 0001	100	320	min. 125	70	140	12	5	1	
0815 0002	125	395	min. 155	80	180	14	11	1	
0815 0003	150	485	min. 180	98	220	16	20	1	
0815 0004	175	550	min. 205	110	240	18	29	1	
0815 0006	Swivel Base (only for 150 mm!)							5	1

0818 All Steel Vices ECO

- Hardened and knurled jaws
- Large and hardened anvil
- Integrated pipe-gripping jaws
- Material: Heat treated steel
- Surface: Black varnished



Art. Code	b mm	mm	l mm	w mm	s mm	h mm	d mm	kg		
0818 0001	100	80 x 59	280	90	53	110	10	5.0	1	
0818 0002	125	100 x 80	350	140	67	140	13	10.5	1	
0818 0003	150	132 x 90	400	170	87	150	13	14.5	1	
0818 0004	175	132 x 90	420	170	87	150	13	15.0	1	
0818 0005	Swivel Base (only for 100 mm!)								3	1
0818 0006	Swivel Base (only for 125 mm!)								4	1

0818 Tube and protective jaws (aluminum)

- Suitable for all types of vice
- With horizontal prism for round material
- 1 VE = 1 pair



Art. Code	l mm	g	
0818 0101	100	175	1
0818 0102	125	200	1
0818 0103	150	250	1

0818 Tube and protective jaws (plastic)

- With magnetic adhesion
- Suitable for all types of vice
- With horizontal and vertical prism for round material
- 1 VE = 1 pair



Art. Code	l mm	g	
0818 0201	100	75	1
0818 0202	125	100	1
0818 0203	150	125	1

For powerful clamping.

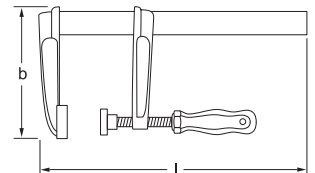
MATADOR Clamps with 2-component handles.



0830 Malleable cast iron screw clamps



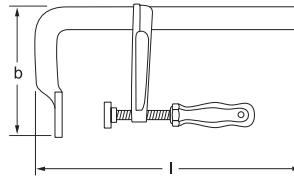
- High clamping force up to 6.000 N (60 kg)
- With ergonomic 2-component handles
- Standards: DIN 5117
- Surface: Galvanized



Art. Code	l mm	b mm	mm	g	
0830 0160	160	80	22 x 6	800	10
0830 0250	250	120	30 x 8	1700	10
0830 0300	300	120	30 x 8	1700	10
0830 0400	400	120	30 x 8	2000	10
0830 0600	600	120	30 x 8	2350	5
0830 1000	1000	120	30 x 8	3100	5

0832 All-steel screw clamps

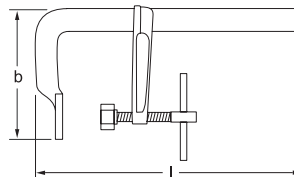
- With forged sliding arm made of high tempered steel
- High clamping force
- For exactly the same distribution of pressure
- With ergonomic 2-component handles
- Surface: Galvanized



Art. Code	l mm	b mm	mm	g	
0832 0160	160	80	16 x 7.5	500	10
0832 0250	250	120	22 x 10.5	1300	10
0832 0300	300	140	25 x 12.0	1800	10
0832 0400	400	120	25 x 12.0	1900	10
0832 0600	600	120	25 x 12.0	2400	5
0832 1000	1000	120	27 x 13.0	3800	5

0833 Heavy all-steel clamps

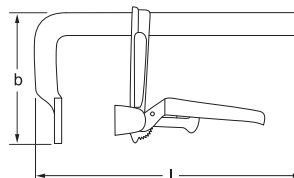
- With steel locking handle with braided ends
- High clamping force
- With forged sliding arm quenched and tempered steel
- Surface: Galvanized



Art. Code	l mm	b mm	mm	g	
0833 0250	250	120	30 x 15	2800	10
0833 0300	300	140	30 x 15	3000	10
0833 0500	500	140	30 x 15	3700	10
0833 0800	800	140	30 x 15	4600	5
0833 1000	1000	120	30 x 15	5200	5

0834 All-steel lever clamps

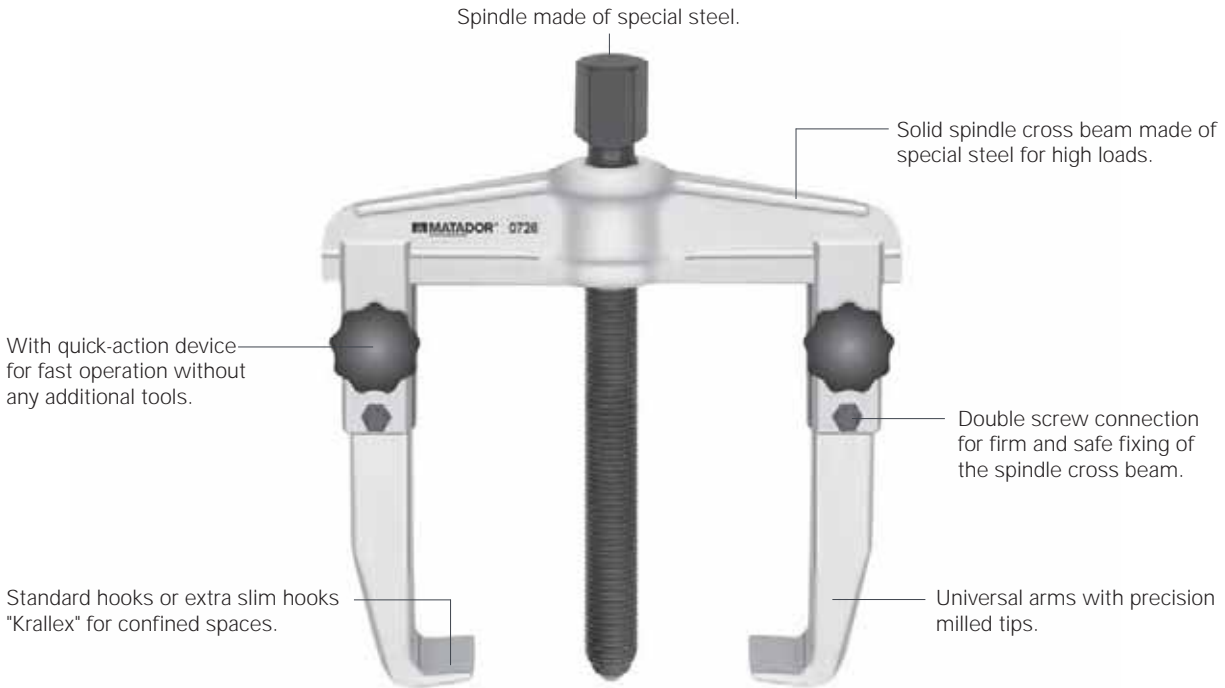
- For quick and effortless tensioning
- High clamping force
- Self-locking and vibration-proof
- With release lever for easy dissolving in any position
- Surface: Galvanized



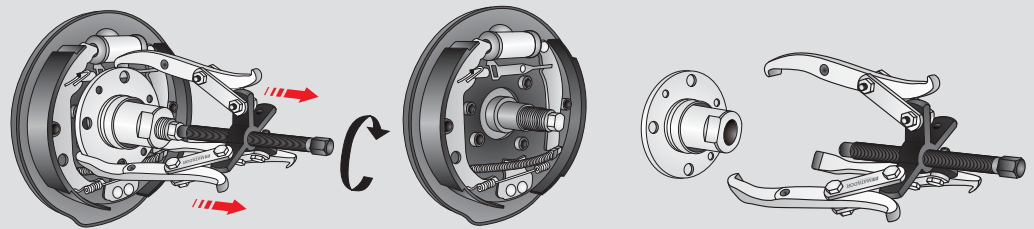
Art. Code	l mm	b mm	mm	g	
0834 0160	160	80	16 x 7.5	500	10
0834 0250	250	120	22 x 10.5	1600	10
0834 0300	300	140	25 x 12.0	2400	10
0834 0400	400	120	25 x 12.0	2600	10
0834 0600	600	120	25 x 12.0	3000	5
0834 0800	800	120	27 x 13.0	3100	5
0834 1000	1000	120	27 x 13.0	4300	5

Solid quality, tried and tested.

The MATADOR pullers.



The basics of right pulling:



- Check the condition of your tools at regular intervals and replace any damaged or worn parts.



- Keep the threads of all spindles and heads clean and well oiled.



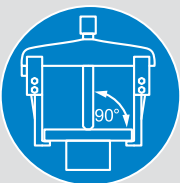
- Before you start work, acquaint yourself with the proper use of the tool and pay attention to pertinent safety measures.



- If anything at all is unclear pls. call the MATADOR helpline.



- Prior to starting work make sure that the pulling tool is in good condition.



- Double-check the tool for correct mounting and monitor the forces incidental to the pulling process.



- Never violate the maximum load data prescribed for the tool and use a torque wrench to keep tabs on the applied forces



- Always wear suitable personal protective equipment and safety glasses.



- Never use extensions to increase the applied torque.

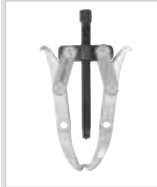


- Never alter a pulling tool or related product in any way.

Overview. All pullers at a glance.

Pullers, 2 arms.

Standard Pullers:

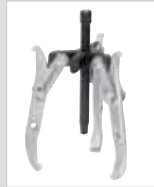


Art. Code	mm	mm	mm
0722 0002	20 - 150	160	--



Art. Code	mm	mm	mm
0724 0001	20 - 150	85	
0724 0002	40 - 220	130	

Pullers, 3 arms.

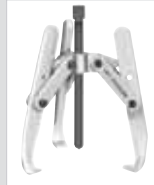


Art. Code	mm	mm	mm
0723 0002	20 - 150	160	--



Art. Code	mm	mm	mm
0725 0001	20 - 150	85	--
0725 0002	40 - 220	130	--

Heavy Duty:



Art. Code	mm	mm	mm
0725 0010	50 - 300	250	--
0725 0011	50 - 400	400	--

Universal Pullers:



Art. Code	mm	mm	mm
0726 0001	20 - 90	100	70 - 130
0726 0002	25 - 130	100	80 - 180
0726 0003	50 - 160	150	105 - 220
0726 0004	60 - 200	150	120 - 270
0726 0005	80 - 250	200	160 - 330
0726 0006	80 - 350	200	160 - 420



Art. Code	mm	mm	mm
0725 0021	25 - 130	100	70 - 130

Universal Pullers with quick action device:



Art. Code	mm	mm	mm
0726 0101	20 - 90	100	70 - 130
0726 0102	25 - 130	100	80 - 180
0726 0103	50 - 160	150	105 - 220
0726 0104	60 - 200	150	120 - 270



Art. Code	mm	mm	mm
0727 0101	20 - 90	100	70 - 130
0727 0102	25 - 130	100	80 - 180
0727 0103	50 - 160	150	105 - 220
0727 0104	60 - 200	150	120 - 270

Universal Pullers with Krallex hooks:



Art. Code	mm	mm	mm
0726 0010	20 - 90	100	
0726 0011	25 - 130	100	
0726 0012	50 - 160	150	
0726 0013	60 - 200	150	



Art. Code	mm	mm	mm
0725 0031	25 - 130	100	

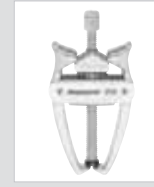
Universal Pullers, Krallex, 6 legs:



Art. Code	mm	mm	mm
0726 0050	25 - 130	100, 200, 250	

Special pullers.

Battery Terminal Pullers:



Art. Code	mm	mm	mm
0728 0001	50	40	
0728 0002	70	65	

Separators with pulling device:



Art. Code	mm	mm	mm
0727 0050	45 - 140	150	--
0727 0060	55 - 205	210	--

Ball Joint Pullers:



Art. Code	mm	mm	mm
0729 0001	18	40	40
0729 0002	25	50	50
0729 0003	29	60	60
0729 0004	40	80	80

Universal Ball Joint Pullers:



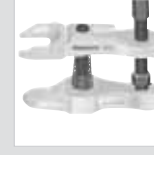
Art. Code	mm	mm	mm
0731 0001	18 - 22	50	--



Art. Code	mm	mm	mm
0731 0002	24	50	--



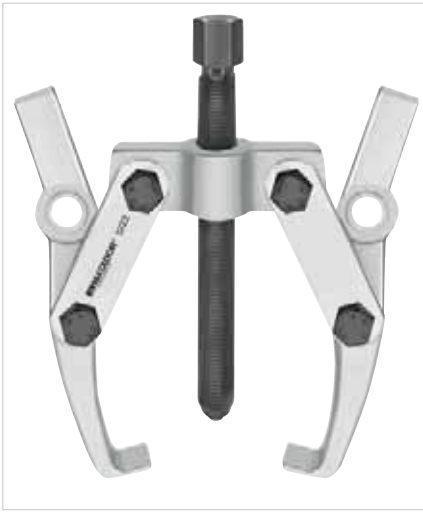
Art. Code	mm	mm	mm
0731 0009	36	90	--



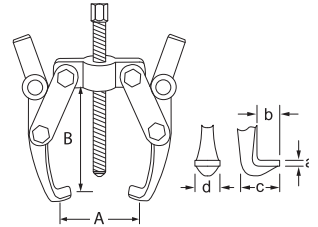
Art. Code	mm	mm	mm
0731 0010	45	115	--

Pullers, 2 arms.

0722 Pullers, 2 arms



- For internal pulling
- Arms in 2 lengths for different applications
- Puller legs to be used on both sides: one side with wide, the other side with narrow hooks
- Surface: Zinc plated

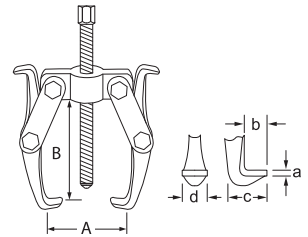


Art. Code	A mm	B mm	max. torque N-m	max. capacity t	Spindles thread x length mm	Wrench	Legs				kg	Box
							a	b	c	d		
0722 0002	20 - 150	160	80	4,0	M14 x 1,5 x 150	16	2 / 2	7 / 7	17 / 17	10 / 18	1,1	1

0724 Pullers, 2 arms



- For internal pulling
- Heavy-duty pattern
- Interchangeable arms to be used on both sides: one side with wide, the other side with narrow hooks
- Surface: Zinc plated

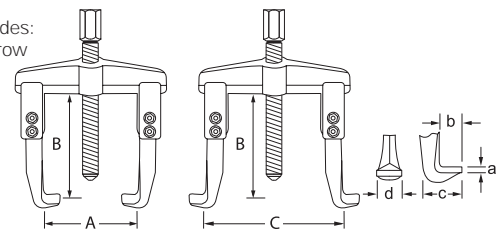


Art. Code	A mm	B mm	max. torque N-m	max. capacity t	Spindles thread x length mm	Wrench	Legs				kg	Box
							a	b	c	d		
0724 0001	20 - 150	85	50	3,5	M14 x 1,5 x 130	17	2 / 2	9 / 11	21 / 22	12 / 17	0,9	1
0724 0002	40 - 220	130	60	4,0	M18 x 1,5 x 240	19	4 / 4	11 / 11	25 / 27	21 / 27	2,2	1

0726 Universal Pullers, 2 arms



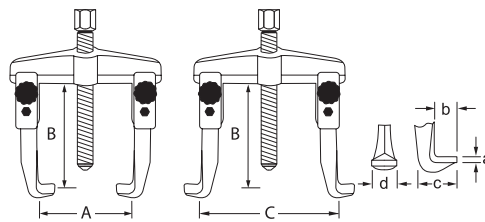
- For internal and external pulling
- Interchangeable arms to be used on both sides: one side with wide, the other side with narrow hooks
- Adjustable height for many applications
- With slim hook for confined spaces
- Surface: Zinc plated



Art. Code	A mm	B mm	C mm	max. torque N-m	max. capacity t	Spindles thread x length mm	Wrench	Legs				kg	Box
								a	b	c	d		
0726 0001	20 - 90	100	70 - 130	80	4,5	M14 x 1,5 x 130	17	3	13	25	20	1,0	1
0726 0002	25 - 130	100	80 - 180	80	4,5	M14 x 1,5 x 130	17	3	13	25	20	1,2	1
0726 0003	50 - 160	150	105 - 220	150	6,5	G 1/2" x 14Gg x 210	22	4	16	35	25	3,0	1
0726 0004	60 - 200	150	120 - 270	150	6,5	G 1/2" x 14Gg x 210	22	4	16	35	25	3,3	1
0726 0005	80 - 250	200	160 - 330	320	11	G 3/4" x 14Gg x 280	27	5	25	54	35	7,4	1
0726 0006	80 - 350	200	160 - 420	320	11	G 3/4" x 14Gg x 280	27	5	25	54	35	8,5	1

0726 Universal Pullers, 2 arms, with quick-action device

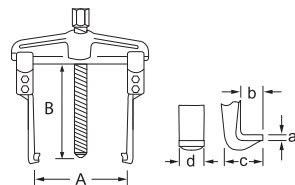
- For internal and external pulling
- With quick-action device
- With slim hook for confined spaces
- Surface: Zinc plated



Art. Code	A mm	B mm	C mm	max. torque N-m	max. capacity t	Spindles thread x length mm	Legs					kg	
							a mm	b mm	c mm	d mm			
0726 0101	20 - 90	100	70 - 130	80	4,5	M14 x 1,5 x 130	17	3	13	25	20	1,0	1
0726 0102	25 - 130	100	80 - 180	80	4,5	M14 x 1,5 x 130	17	3	13	25	20	1,2	1
0726 0103	50 - 160	150	105 - 220	150	6,5	G 1/2" x 14Gg x 210	22	4	16	35	25	3,0	1
0726 0104	60 - 200	150	120 - 270	150	6,5	G 1/2" x 14Gg x 210	22	4	16	35	25	3,3	1

0726 Universal Pullers, 2 arms, Krallex

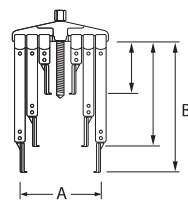
- For internal and external pulling
- With extra slim "Krallex" hooks for confined spaces
- Surface: Zinc plated



Art. Code	A mm	B mm	N-m	t	Spindles thread x length mm	Legs					kg	
						a mm	b mm	c mm	d mm			
0726 0010	20 - 90	100	80	4,5	M14 x 1,5 x 130	17	3,6	6	13	27	1,0	1
0726 0011	25 - 130	100	80	4,5	M18 x 1,5 x 240	17	3,6	6	13	27	1,2	1
0726 0012	50 - 160	150	150	6,5	G1/2" x 14 Gg. x 210	22	5	8	17	40	3,0	1
0726 0013	60 - 200	150	150	6,5	G1/2" x 14 Gg. x 210	22	5	8	17	40	3,3	1
0726 0510		100	Hooks for 0726 0010, 0726 0011								0,5	1
0726 0511		150	Hooks for 0726 0012, 0726 0013								1,2	1

0726 Universal Pullers, 2 arms, Krallex, 6 legs

- 3 pullers in 1
- For internal and external pulling
- With extra slim "Krallex" hooks for confined spaces
- 3 different heights for many applications
- Surface: Zinc plated



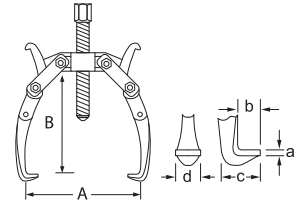
Art. Code	A mm	B mm	Legs					kg	
			a mm	b mm	c mm	d mm			
0726 0050	25 - 130	100, 200, 250	17	3,6	6	13	27	3,2	1
0726 0051	Spare hooks								
0726 0052	Spare spindle								

Pullers, 3 arms.

0723 Pullers, 3 arms



- For internal pulling
- Can be used a 2-arm or 3-arm puller
- Arms in 2 lengths for different applications
- Puller legs to be used on both sides: one side with wide, the other side with narrow hooks
- Surface: Zinc plated

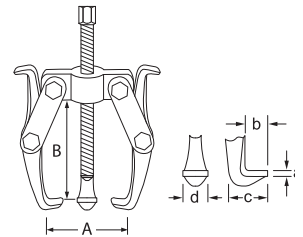


Art. Code	A mm	B mm	max. torque N-m	max. capacity t	Spindles thread x length mm	mm	Legs				kg	
							a	b	c	d		
0723 0002	20 - 150	160	80	4,0	M14 x 1,5 x 150	16	2 / 2	7 / 7	17 / 17	10 / 18	1,7	1

0725 Pullers, 3 arms



- For internal pulling
- Heavy-duty pattern
- Interchangeable arms to be used on both sides: one side with wide, the other side with narrow hooks
- Surface: Zinc plated

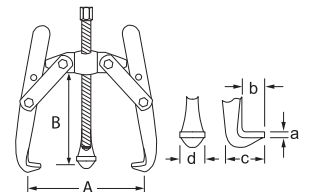


Art. Code	A mm	B mm	max. torque N-m	max. capacity t	Spindles thread x length mm	mm	Legs				kg	
							a	b	c	d		
0725 0001	20 - 150	85	60	4,0	M14 x 1,5 x 130	17	2 / 2	9 / 11	21 / 22	12 / 17	1,2	1
0725 0002	40 - 220	130	70	4,5	M18 x 1,5 x 240	19	4 / 4	11 / 11	25 / 27	21 / 27	2,9	1

0725 Pullers, 3 arms, heavy duty



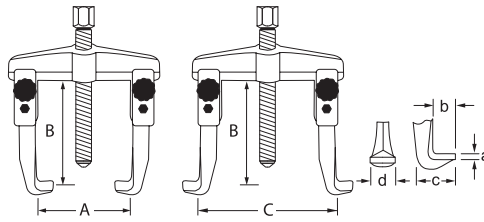
- For internal pulling
- Heavy-duty pattern
- High capacity
- Interchangeable arms to be used on both sides: one side with wide, the other side with narrow hooks
- Surface: Zinc plated



Art. Code	A mm	B mm	max. torque N-m	max. capacity t	Spindles thread x length mm	mm	Legs				kg	
							a	b	c	d		
0725 0010	50 - 300	250	220	12	G1/2" x 14Gg. x 270	22	5	25	48	30	7,3	1
0725 0011	50 - 400	400	220	12	G1/2" x 14Gg. x 270	22	5	25	48	30	8,8	1

0725 Universal Pullers, 3 arms

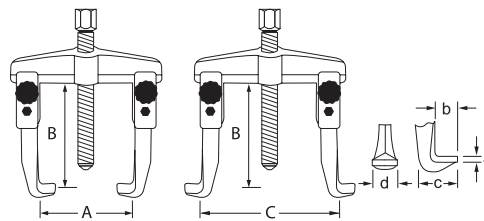
- For internal and external pulling
- Interchangeable arms to be used on both sides: one side with wide, the other side with narrow hooks
- Adjustable height for many applications
- With slim hook for confined spaces
- Surface: Zinc plated



Art. Code	A mm	B mm	C mm	max. torque N-m	max. capacity t	Spindles thread x length mm	Legs					kg	1
							a mm	b mm	c mm	d mm			
0725 0021	25 - 130	100	70 - 130	80	4,5	M14 x 1,5 x 130	17	3	13	25	20	1,0	1

0727 Universal Pullers, 3 arms, with quick-action device

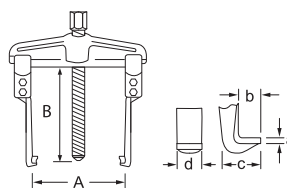
- For internal and external pulling
- With quick-action device
- With slim hook for confined spaces
- Surface: Zinc plated



Art. Code	A mm	B mm	C mm	max. torque N-m	max. capacity t	Spindles thread x length mm	Legs					kg	1
							a mm	b mm	c mm	d mm			
0727 0101	20 - 90	100	70 - 130	80	4,5	M14 x 1,5 x 130	17	3	13	25	20	1,0	1
0727 0102	25 - 130	100	80 - 180	80	4,5	M14 x 1,5 x 130	17	3	13	25	20	1,2	1
0727 0103	50 - 160	150	105 - 220	150	6,5	G 1/2" x 14Gg x 210	22	4	16	35	25	3,0	1
0727 0104	60 - 200	150	120 - 270	150	6,5	G 1/2" x 14Gg x 210	22	4	16	35	25	3,3	1

0725 Universal Pullers, 3 arms, Krallex

- For internal and external pulling
- With extra slim "Krallex" hooks for confined spaces
- Surface: Zinc plated



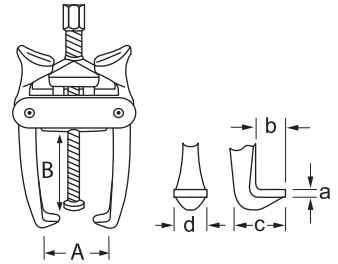
Art. Code	A mm	B mm	C mm	max. torque N-m	max. capacity t	Spindles thread x length mm	Legs					kg	1
							a mm	b mm	c mm	d mm			
0725 0031	25 - 130	100	80 - 180	80	4,5	M14 x 1,5 x 130	17	3	13	25	20	1,2	1
0725 0530		100	Hooks for 0725 0031									0,5	1

Pullers for special applications.

0728 Battery Terminal Pullers, 2 legs



- For pulling off battery terminals, ball bearings
- Surface: Zinc plated

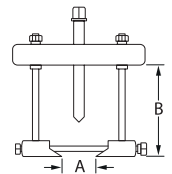


Art. Code	A mm	B mm	Spindles thread x length	Legs				g	kg	
				a	b	c	d			
0728 0001	10 - 50	45	84 x M8	10	2	7	12	10	190	1
0728 0002	10 - 70	65	105 x M10	12	2	8	14	13	300	1

0727 Separators with Pulling Device



- For pulling off fixed parts
- Instructions for use:
 - Tapered knife edges of separator fit behind bearings to be removed by tightening stud nuts
 - Turn tie rods of device into adaptor thread of separator
 - Screw in spindle of device
- Surface: Zinc plated



Separator:

Art. Code	A mm	for puller...	adaptor thread	slide rods thread x length	capacity / torque in combination with puller	mm	kg
0727 0020	12 - 75	0727 0050	M12	M12 x 140	0727 0050	19	0,7
0727 0030	22 - 115	0727 0060	M16	M16 x 1,5 x 180	0727 0060	24	1,9

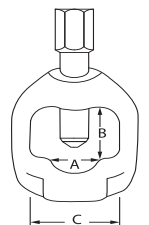
Pullers

Art. Code	A mm	B mm	for separator...	adaptor thread	max. torque	max. capacity	Spindles thread x length	mm	mm	kg
0727 0050	45 - 140	150	0727 0020	M12	40	2,5	M14 x 1,5 x 130	17	M12 x 200	1,1
0727 0060	55 - 205	210	0727 0030	M16	70	4	G12" x 14Gg. x 210	22	M16 x 280	2,7

0729 Ball Joint Puller



- For removal of ball pivots on tie-rods and stabilizers
- Wide clamping range due to infinite variability
- Surface: Zinc plated

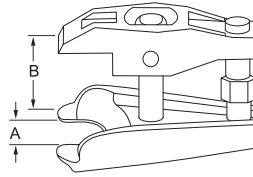


A = Jaw opening / B = max. clear height

Art. Code	A mm	B mm	C mm	max. torque	Spindles thread x length	mm	kg
0729 0001	18	40	40	50	M14 x 1,5 x 60	17	0,3
0729 0002	25	50	50	120	M16 x 1,5 x 60	17	0,7
0729 0003	29	60	60	160	M18 x 1,5 x 75	19	1,0
0729 0004	40	80	80	280	G 1/2" x 14Gg x 110	22	2,1

0731 Universal Ball Joint Puller

- For passenger cars and trucks
- For removal of ball pivots on tie-roads and stabilizers
- Max. capacity up to 50 mm by reversing the bottom part
- Surface: Zinc plated



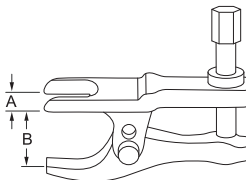
A = Jaw opening / B = max. clear height



Art. Code	A mm	B mm	max. torque N-m	max. capacity t	Pin mm	Spindles thread x length mm	pressure spindle thread x length mm	mm	kg	
0731 0001	18 - 22	max. 50	70	3,5	8	M14 x 1,5 x 48	M14 x 1,5 x 35	19	0,9	1

0731 Universal Ball Joint Puller

- For passenger cars and trucks
- For removal of ball pivots on tie-roads and stabilizers
- Max. capacity up to 50 mm by reversing the bottom part
- Surface: Zinc plated



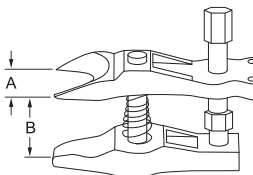
A = Jaw opening / B = max. clear height



Art. Code	A mm	B mm	max. torque N-m	max. capacity t	Spindles thread x length mm	mm	kg	
0731 0002	24	max. 50	40	3,5	M16 x 1,5 x 70	17	1,4	1

0731 Universal Ball Joint Puller (trucks)

- For trucks up to 17 tons
- For removal of ball pivots on tie-roads and stabilizers
- Max. capacity up to 90 mm by reversing the bottom part
- Surface: Zinc plated



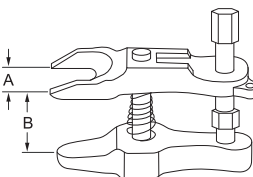
A = Jaw opening / B = max. clear height



Art. Code	A mm	B mm	max. torque N-m	max. capacity t	Spindles thread x length mm	pressure spindle thread x length mm	mm	kg	
0731 0009	36	max. 90	200	10	M18 x 1,5 x 120	G1/2" x 14Gg. x 110	22	3,7	1

0731 Universal Ball Joint Puller (trucks)

- For trucks >18 tons
- For removal of ball pivots on tie-roads and stabilizers
- Max. capacity up to 115 mm by reversing the bottom part
- Surface: Zinc plated



A = Jaw opening / B = max. clear height



Art. Code	A mm	B mm	max. torque N-m	max. capacity t	Spindles thread x length mm	pressure spindle thread x length mm	mm	kg	
0731 0010	45	max. 115	200	20	M24 x 1,5 x 150	G3/4" x 14Gg. x 125	27	6,4	1

For a clean cut.

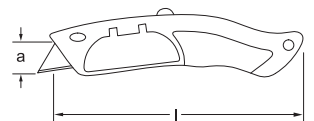
Cutting soft materials. For example with the MATADOR universal knife.



0828 Universal knife PRO

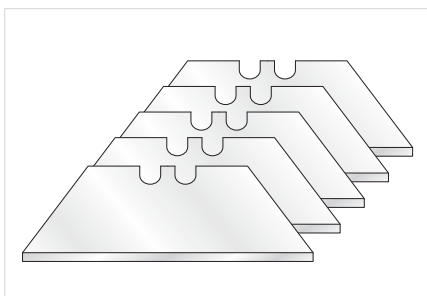


- Universal knife for 18 mm blades
- Aluminum die-cast housing with non-slip grip
- Heavy duty version
- With safety blade and automatic blade feed
- Blade pushed out to 20 mm
- Includes 10 replacement blades in the magazine

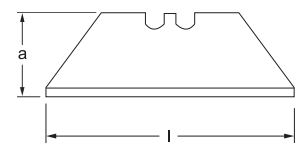


Art. Code	l mm	a mm	g	
0828 0001	170	18	200	5

0828 Spare blades



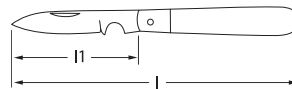
- 10 spare blades
- Chrome-alloyed steel



Art. Code	l mm	a mm	g	
0828 0002	62	18	20	5

0825 Cable Knife with wooden handle

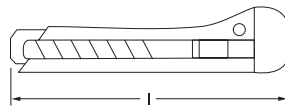
- The classic cable diameter for each tool assortment
 - Blade folds away
 - With straight, hardened blade
 - With round cable scraper
 - Moulded handle made out of wood
- Material: Stainless steel



Art. Code	l mm	l1 mm	g	
0825 0001	200	90	85	10

0827 Universal knife ECO

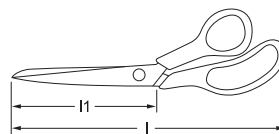
- For right handed use
- With reinforcement eyelet
- Blade 18 x 100 mm
- With 0,5 mm strong snap off blades
- Blade guide out of metal
- Housing made out of plastic



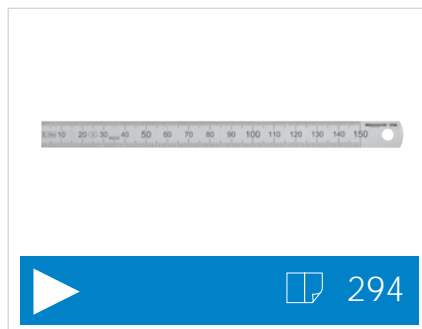
Art. Code	l mm	g	
0827 0001	140	70	5

0743 Household Scissors

- For many applications
- Re-adjustable screw-joint



Art. Code	l mm	l1 mm	g	
0743 0001	205	65	80	6



For a clean cut.



Cutting hard materials. Snips and tin snips.



What does it mean: left or right cutting?

Snips are suitable to **cut thin and not too tough steel plates**. Hand snips are forged in one piece. However leverage snips consist of forged head and one handle made of high strength steel.

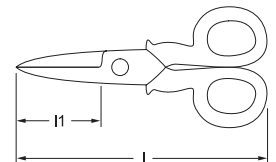
Matador's snips **745** and **747** are designed and sharpened with variable cutting edges depends on the radius:

-  Left cutting snips are designed for cutting radii from right to left.
-  Right cutting snips are designed for cutting radii from left to right.

0744 Telephone and Cable Scissors



- With serrated cutting edges
- With wire cutter
- Re-adjustable screw-joint
- Straight cutting edges, polished jaw
- Made of high quality steel

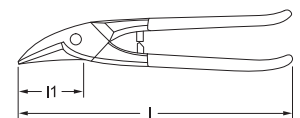


Art. Code		l mm	l1 mm	g	
0744 0001		140	50	115	6

0745 Dulf Ideal Tin Snips



- For short, straight and figure cuts, large radius
- Cutting edges induction hardened
- Temper of cutting-edges 57 - 59° HRC
- Re-adjustable screw-joint
- Material: Tool steel, drop-forged
- Execution: Oil-hardened



Art. Code		mm	mm	l mm	l"	l1 mm	g	
0745 0001	R	1.5	1.0	250	9.3/4	42	540	6
0745 0002	L	1.5	1.0	250	9.3/4	42	540	6

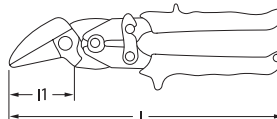
Cuts through sheet steel so easily.

Lever-assisted Tin Snips for optimum results.



0747 Ideal Lever Tin Snips

- For short, straight and figure cuts with large radius
- Micro-serrated cutting edge, prevents slipping off during cutting
- Cutting edge hardness 60 - 62 HRC
- Special cutting geometry and precision cutting for a clean cut without any burrs
- With selfopening spring with lock
- With optimum leverage for easy and effortless work
- Re-adjustable screw-joint
- Ergonomically designed multi-component safety handle for better handling
- Handles made of solid rolled steel
- Made of tool steel, forged, oil-hardened

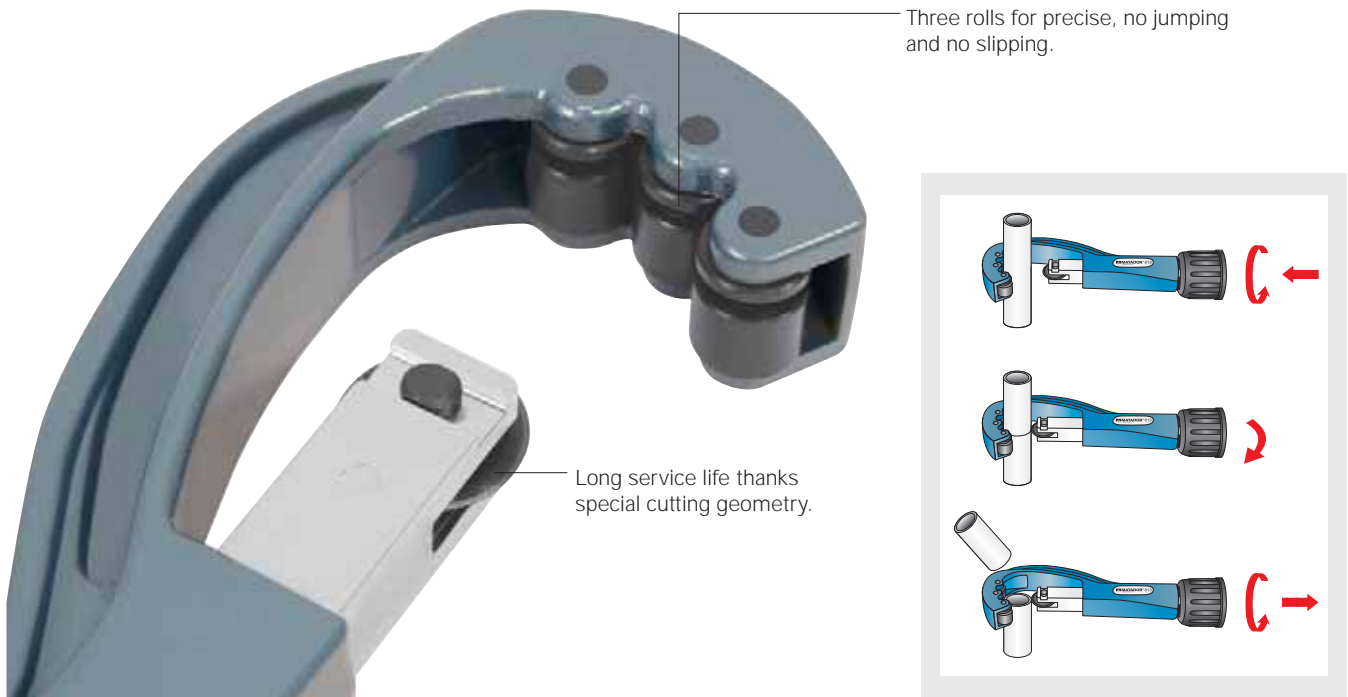


Art. Code		Fe	VA	mm	l"	mm	g	
0747 0001	R	1,8	1,2	250	9,3/4	30	515	6
0747 0002	L	1,8	1,2	250	9,3/4	30	515	6



Cutting and deburring in a single step.

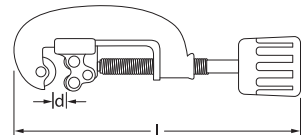
Metal Pipe Cutter.



0810 Metal Pipe Cutter



- For copper, brass, aluminium, thin walled steel pipes, PVC and hard plastic pipes
- With adjusting knob incorporating a reamer
- With trimming knife in the handle
- Handle, lacquered

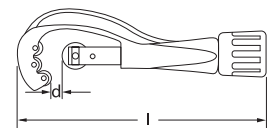


Art. Code	d mm	d "	l mm	l "	g	
0810 0001	5 - 35	1/8 - 1.3/8	170 - 205		400	5
0810 0011	Cutting wheels				3	5
0810 0012	Bolts				6	5

0813 Metal Pipe Cutter



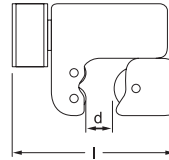
- For copper, brass, aluminium, thin walled steel pipes, PVC and hard plastic pipes
- 4-rollers guide
- Automatic feed
- With adjusting knob incorporating a reamer
- With trimming knife in the handle, lacquered



Art. Code	d mm	d "	l mm	l "	g	
0813 0001	5 - 35	1/8 - 1.3/8	190	7.1/2	500	1
0810 0011	Cutting wheels				3	5
0810 0012	Bolts				6	5

0814 Mini Pipe Cutter

- For copper, brass, aluminium, thin walled steel pipes, PVC and hard plastic pipes
- 4-rollers guide
- Automatic feed,
- With adjusting knob incorporating a reamer
- With trimming knife in the handle, lacquered



Art. Code	For	l mm	l"	g	
0814 0001		3 - 16	1/8 - 5/8	100	5
0810 0011	Cutting wheels			3	5

0835 Flaring Tool

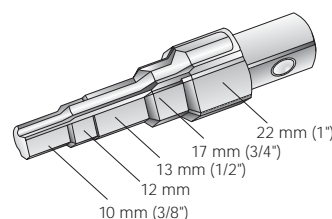
- For flaring copper and light-alloy pipes of various hardnesses
- Body in pressure-cast zinc, stove enamelled blue
- Flange cone 90° hardened
- Clamping jaws made from steel, smooth inside, phosphated
- Opening angle 90° = 45° angled from pipe



Art. Code	For	Scope of delivery	kg	
0835 0001	For metric pipes 4, 4,75, 6, 8, 10, 12, 14 mm	1 basic frame, 1 clamping jaw 4 - 14 mm	1.4	1
0835 0002	For metric pipes 15, 16, 17, 18, 19 mm	1 basic frame, 1 clamping jaw 15 - 19 mm	1.4	1
0835 0003	For inch pipes 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4"	1 basic frame, 1 clamping jaw 3/16 - 3/4"	1.5	1
0835 0004	Spare clamping jaws		0.6	1
0835 0005	Cone for 180° flaring		0.6	1

2000 Combination stepped key

- For the installation and removal of radiator valves, runback screwed unions 3/8" - 1" and short tap extensions
- With pin, hexagon and bi-hexagon nut drive



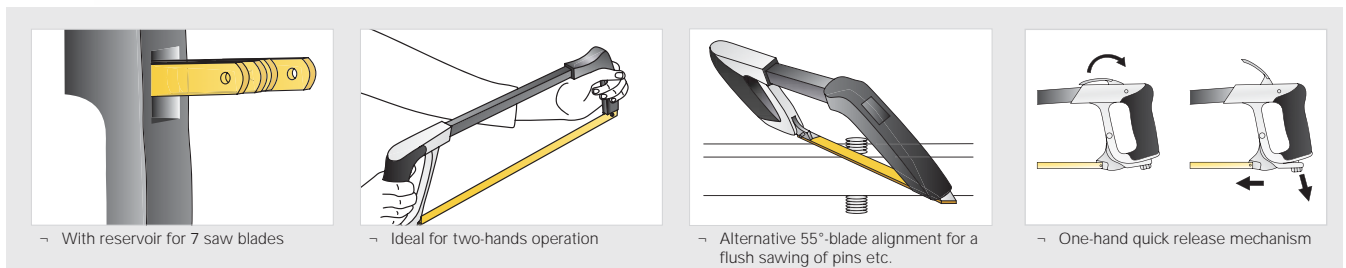
12,5 mm 1/2



Art. Code	mm	"	g	
2000 0001	12,5	1/2	135	1

For an accurate, burr-free sawing.

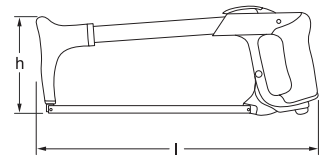
If cutting does not help: Sawing.



0786 Hacksaw



- High blade tension of 100 kg for straight, clean cuts with precise joints.
- Lightweight aluminum frame with steel core for easy handling
- Alternative blade tension at 55 ° for flush cutting.
- In the grip integrated clamping mechanism HSS DMo5



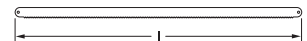
Art. Code	l mm	h mm	g	
0786 0002	440	140	750	5

0786 High performance saw blades HSS DMo5



- From High Speed Steel with Surface special treatment (steam tempered)
- For cutting of metals and alloys to 800N/mm², dental hard
- 24 teeth per inch, for excellent cutting results
- Combines high performance with security breach

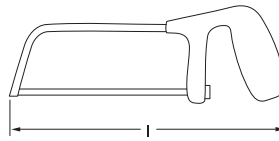
- Material: Bi-metal HSS DMo5



Art. Code	l mm	l"	g	
0786 0003	300	12	20	10

0787 Hacksaw

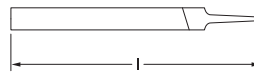
- Stable, fixed straight blade
- Hardened stainless steel blade in oil and annealed
- Impact resistant handle with slip
- With Cap
- VDE tested according to DIN EN / IEC 60900:2004



Art. Code		mm	g	
0787 0704		250	170	5
0787 0003	Blade	150	100	12

0775 Engineers' Files

- Second cut
- Ergonomic plastic handle
- Standard: DIN 7261 A-F / ISO R 234



Art. Code	Execution	l mm	l "	g	
0775 0001	Hand	150	6	100	5
0775 0010	Hand	200	8	185	5
0776 0001	Hand	250	10	350	5
0775 0002	Threesquare	150	6	100	5
0775 0011	Threesquare	200	8	195	5
0776 0002	Threesquare	250	10	340	5
0775 0003	Round	150	6	70	5
0775 0012	Round	200	8	105	5
0776 0003	Round	250	10	190	5
0775 0004	Square	150	6	60	5
0775 0013	Square	200	8	125	5
0776 0004	Square	250	10	240	5
0775 0005	Halfround	150	6	80	5
0775 0014	Halfround	200	8	165	5
0776 0005	Halfround	250	10	300	5



0778 Engineers' Files

- Second cut
- In plastic wallet
- Standard: DIN 7261 A-F / ISO R 234

Art. Code	g	
0778 0002	750	1

Content

- 0775 200 mm
- 0775 200 mm
- 0775 200 mm
- 0775 200 mm
- 0775 200 mm



0779 Set of Warding Files



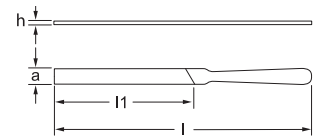
- Second cut
- In plastic wallet
- Standard: DIN 7283 A-F

Art. Code		g	
0779 0001		660	1
Content	<ul style="list-style-type: none"> 0779 150 mm 0779 150 mm 0779 150 mm 0779 150 mm 0779 150 mm 0779 150 mm 		

0780 Set of Contact Files



- For spark plugs
- In plastic wallet
- Material: Special steel

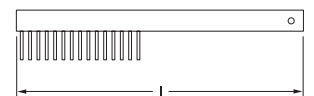


Art. Code		l mm	l1 mm	a mm	h mm	g	
0780 0001		150	81	8	1	70	5

0782 Steel wire brush



- Bent type
- With wooden handle
- Wire fill
- With 5 rows, wood






Art. Code		l mm	g	
0782 0001		290 x 40	150	5

HSS = High speed steel. Less it should not be..

The 1x1 of the correct HSS twist drill.



<p>*** HSS-R</p> 	<ul style="list-style-type: none"> - Roll rolled - Dark gray / black - Very flexible and durable - High breaking strength - Rather unsuitable for accurate boreholes - A cost-saving - Ideal for structural steel and steel alloys simple - Application: Normal holes with a hand drill 	<p>**** HSS-G</p> 	<ul style="list-style-type: none"> - Polished - Silver Shiny - Higher precision than HSS-R with excellent concentricity - Higher risk of fracture than HSS-R - For all steels with high strength and stainless material - Application: Precision holes in stationary drills 	<p>***** HSS-E -Co 5-</p> 	<ul style="list-style-type: none"> - Ground and in addition coated with cobalt (Co 5) - Rainbow-colored - Higher precision than HSS-R with excellent concentricity - Higher risk of fracture than HSS-R - For all steels with high strength and stainless material - Application: Precision holes in stationary drills
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0762 Twist drill assortments M



- Assortment with 19 high-performance twist drills
- In a stable sheet steel case
- For alloyed and unalloyed steel up to 900 N/mm², aluminum etc.
- Right hand cutting
- From Ø 3.0 mm split point according to DIN 1412 C
- Spiral angle: 20 - 30 °
- Tolerance on Ø: h8
- Standard: DIN 338

Art. Code		g	
0762 9160		800	1
0762 9161		800	1
0762 9162		800	1
0762 Ø 1,0 – 10,0 mm x 0,5 mm increasing			

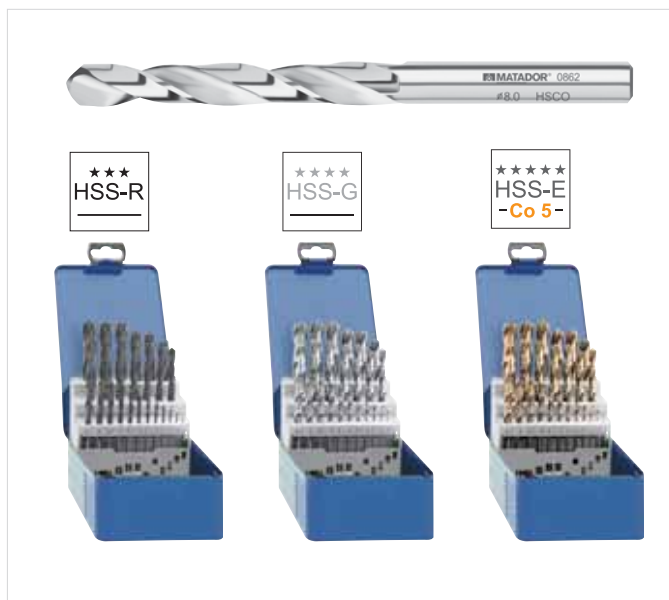


0762 Twist drill assortments XL



- Assortment with 25 high-performance twist drills
- In a stable sheet steel case
- For alloyed and unalloyed steel up to 900 N/mm², aluminum etc.
- Right hand cutting
- From Ø 3.0 mm split point according to DIN 1412 C
- Spiral angle: 20 - 30 °
- Tolerance on Ø: h8
- Standards: DIN 338

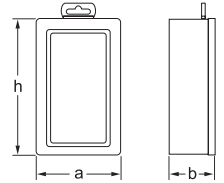
Art. Code		g	
0762 9250		800	1
0762 9251		800	1
0762 9252		800	1
0762 Ø 1,0 – 10,0 mm x 0,5 mm increasing			



0763 Hand Taps HSS



- Universal set of hand taps M3 - M12
- With tool holder
- In a robust metal case
- Material: HSS
- Standard: DIN 352

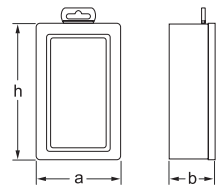


Art. Code	a mm	h mm	b mm	g	
0763 9160	110	160	35	710	1
Content	<ul style="list-style-type: none"> 0763 2x: M3 - M4 - M5 - M6 - M8 - M10 - M12 0763 1.1/2 0772 				

0763 Hand Taps HSS



- Universal set of hand taps M3 - M12
- With core drills
- In a robust metal case
- Material: HSS
- Standard: DIN 352

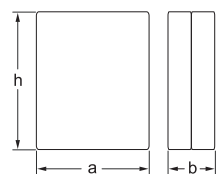


Art. Code	a mm	h mm	b mm	g	
0763 9150	110	160	35	655	1
Content	<ul style="list-style-type: none"> 0762 M3 - M4 - M5 - M6 - M8 - M10 - M12 0762 2,5 - 3,3 - 4,2 - 5,0 - 6,8 - 8,5 - 10,2 Ø 0763 1.1/2 				

0765 Set of circular dies HSS



- Dies in front slotted (closed) execution
- Suitable for general use e.g. in steel up to 900N/mm²
- Ø-tolerances: 2A, 6g
- In robust metal case
- Material: HSS
- Standard: DIN 338

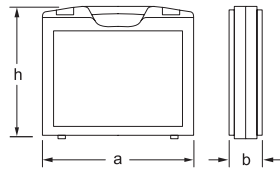


Art. Code	a mm	h mm	b mm	g	
0765 9080	80	120	30	450	1
Content	<ul style="list-style-type: none"> 0765 M3 - M4 - M5 - M6 - M8 - M10 - M12 Ø 25 mm 0765 25 x 9 				

0766 Thread Cutting Assortment PRO

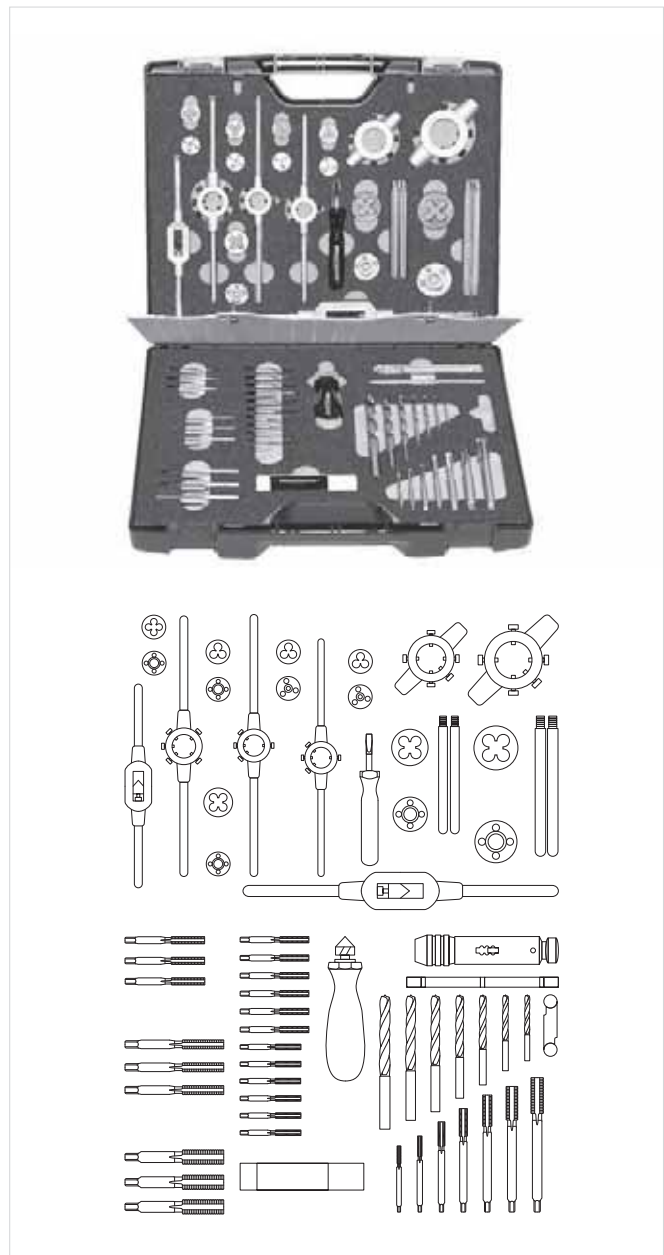


- Hand- and Machine Tap assortment
- Optimized tool configuration
- Contains all important thread cutting tools:
 - Hand Taps DIN 352, M3 – M12
 - Machine Taps DIN 371-376, Form B, M3 – M12
 - Circular Dies DIN 223, M3 – M12
 - Guides DIN 223, M3 – M12
 - Holder for Circular Dies GD DIN 225, 20x5 | 20x7 | 25x9 | 30x11 | 38x14
 - Adjustable Teap Wrenches DIN 1814, Gr. 1 und 2
 - Hand Deburring Tool 12,4 mm
 - Twist Drills DIN 338, Ø 2,5 | 3,3 | 4,2 | 5,0 | 6,8 | 8,5 | 10,2 mm
 - Toolholder
 - Drilling paste 20 g
 - Gauge
 - Screw Driver etc.
- With MTS-System
- Removable inlays



Art. Code	Material	a mm	h mm	b mm	g	Quantity
0766 9610	HSS	355	300	80		1
0766 9611	HSS-E	355	300	80		1

Content	Item	Specifications
	0762	2,5 - 3,3 - 4,2 - 5,0 - 6,8 - 8,5 - 10,2 Ø
	0763	Gr. 1 - 2
	0763	12,4 mm
	0763	M3 - M4 - M5 - M6 - M8 - M10 - M12
	0763	M3 - M4 - M5 - M6 - M8 - M10 - M12
	0764	
	0765	M3 - M4 - M5 - M6 - M8 - M10 - M12
	0765	20 x 5 - 20 x 7 - 25 x 9 - 30 x 11 - 38 x 14
	0765	M3 - M4 - M5 - M6 - M8 - M10 - M12
	0766	
	0772	Gr. 2

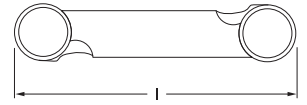


<p>→ Stylishly designed in black with gray locks</p>	<p>→ Non-slip rubber feet and stackable</p>	<p>→ Ergonomic and rubberized handle for safe transport</p>	<p>→ Extra strong adjustable feet for secure footing, stain-resistant</p>
<p>→ With perforated intermediate plate</p>	<p>→ Secure locking of the intermediate plate for durable tool assembly</p>	<p>→ Easy opened heads compartment</p>	<p>→ Shapely and stable closures</p>

0764 Thread Gauges



- For metric and Whitworth threads
- For checking inside and outside radius

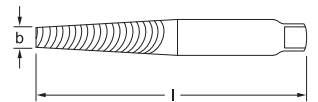


Art. Code		mm	g	
0764 0001	M	0,25 - 6,00	40	10
0764 0003	M + W	0,25 - 6,00 + 4 - 62	75	10

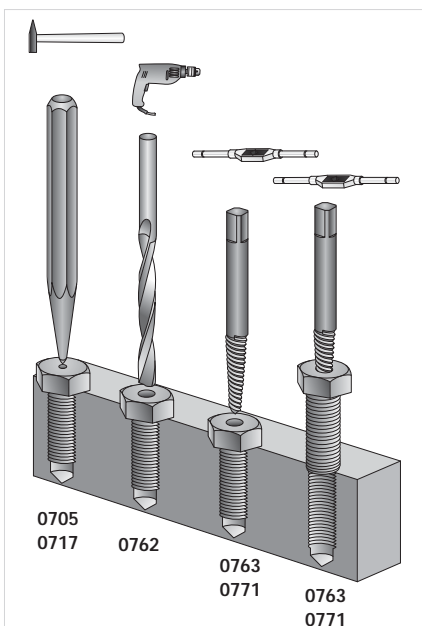
0771 Screw Extractor Sets



- For extracting broken screws with right-hand thread and broken-off tube ends of fittings
 - With milled groove design and optimized geometry and thread length, gives rise to significant
 - Reducing the Ausdrehkräfte
 - Polished shank, rolled thread
 - Set in plastic box
- Material: 59 CrMo4 hardened to 54 - 56 HRC
 - Surface: black finished



	No.	1	2	3	4	5	6	7	8
	mm	1,75	2,2	3,3	4,75	6,35	9,5	12,7	19
	"	0,069	0,087	0,130	0,187	0,250	0,375	0,5	0,75
	mm	3,6	5,0	6,5	8,8	11,0	15,0	19	25
	"	5/32	3/16	1/4	21/64	7/16	19/32	3/4	1
	mm	50	57	64	71	78	85	95	100
	"	2	2.3/8	2.11/16	3	3.3/8	3.3/4	4.1/8	4.3/8
	mm	M 3-6	M 6-8	M 8-11	M 11-14	M 14-18	M 18-24	M 24-33	M 33-50
	"	1/8-1/4	1/4-5/16	5/16-7/16	7/16-9/16	9/16-3/4	3/4-1	1-1.3/8	1.3/8-2
	mm	2,5	3	4,5	6	8	11	14	21
	"	3/32	1/8	11/64	15/64	5/16	7/16	9/16	53/64



Art. Code		g	
0771 0001	5-pieces 0771 M3 - M18, 1/8 - 3/4"	150	1
0771 0002	6-pieces 0771 M3 - M24, 1/8 - 1"	160	1
0771 0003	8-pieces 0771 M3 - M45, 1/8 - 1.3/4"	800	1



Solves most problems.

The complete solution for all kind of thread repair.

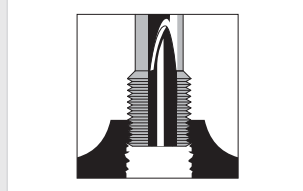


Easy repair in 4 steps:



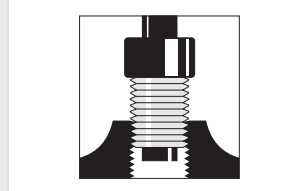
Drill damaged thread

- Clear the damaged thread with a standard drill
- To repair a spark plug thread no pre-drilling is necessary if using the special Spark Plug Tap. Please pay attention that for Fluteless Taps bigger holes are required



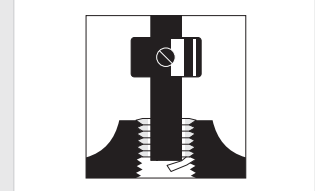
Tap new thread

- Check that thread and pitch of the tap and the bolt match
- Use the special taps for cutting the holding thread into the cleared hole.
- It is recommended to use a suitable cutting oil



Install the insert

- Place insert on installation tool and position the adjustable ring so that the insert tang is centred in the tang slot
- Wind the insert in with a light downward pressure until a half turn below the surface. Don't work against thread direction as the tang could break



Remove tang

- After finishing lift the Installation Tool and use the Tang Break Tool to remove the tang. For bigger sizes and Spark Plug Taps use Long Nose Pliers to remove the tang
- Due to the narrow and exact tolerances the new thread normally is stronger than the original one

0774 Thread Repair Workshop Kit PRO

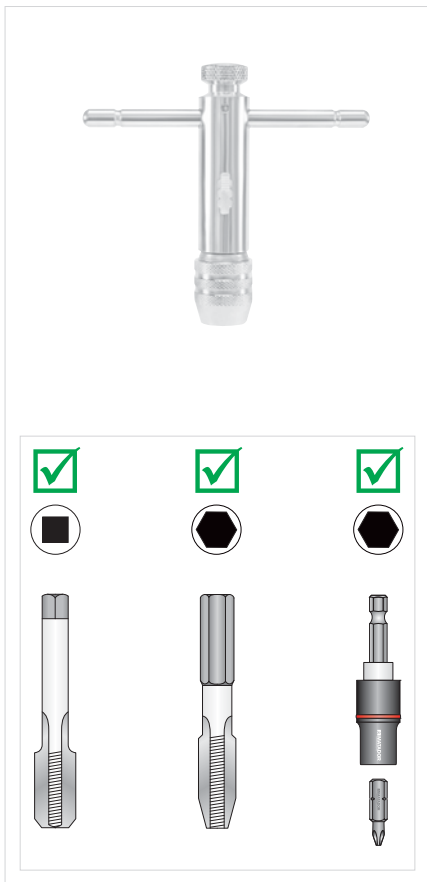


- Professional workshop kit for all kind of thread repair
- For the repair of damaged or worn-out threads
- For material with low shear strength e.g. aluminum-alloys and magnesium alloys
- Can be used in machine-building, electrical, automotive, medical and aerospace industries

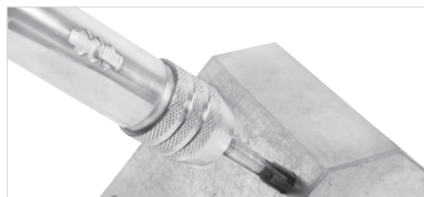
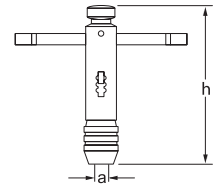
Art. Code		g	
0774 0401		640	1
	0764 25 x M5 (0,8) - 25 x M6 (1,0) - 25 x M8 (1,25) - 25 x M10 (1,5) - 10 x M12 (1,75)		
	0767 5,2 - 6,3 - 8,3 - 10,4 - 12,4 mm		
	0767 8 - 9 - 11 - 13 - 15		
	0767 8 - 9 - 11 - 13 - 15		
	0767 M5 x 0,8 - M6 x 1,0 - M8 x 1,25 - M10 x 1,5 - M12 x 1,75		



0772 Tap wrenches



- Universal tool holder with ratchet and 2-jaw chuck
- For all tools with square or hexagonal shank (size 2)
- For taps, taps bits, bit holder with bits etc.
- With T-handle for comfortable working, adjustable and removable.
- With hardened parallel jaws, replaceable
- For Taps and Screw M5 - M12

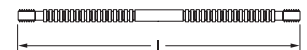


Art. Code	Clamping range mm	a mm	h mm	g	
0772 0001	2,4 - 5,5	M3 - M10	80	155	1
0772 0002	4,5 - 7,0	M5 - M12	100	330	1

0774 Thread Restorers



- For restoring damaged inside and outside threads
- Suitable for right and left handed threads
- Two sided serviceable

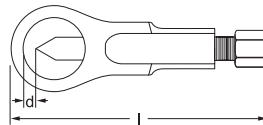






Art. Code			l mm	g	
0774 0001	Thread pitch: 0.8 / 1.0 / 1.25 / 1.5 / 1.75 / 2.0 / 2.5 / 3.0 mm	MM (ISO)	230	120	1
0774 0002	Threads per 1 Inch: 24 / 20 / 18 / 16 / 14 / 13 / 12 / 11	SAE (UNF/UNC)	230	120	1
0774 0003	Threads per 1 Inch: 24 / 20 / 18 / 16 / 14 / 12 / 11 / 10	Whit (BSW/BSF)	230	120	1



0820 Mechanical Nut Splitters

- For splitting and removing unbreakable nuts,
- Quality range up to grade 6
- Extra solid pattern
- Mechanic
- Material: Special steel



Art. Code					
Art. Code		l mm	mm	g	
0820 0001		to M10	4 - 17	280	1
0820 0002		to M16	8 - 24	440	1
0820 0003		to M24	19 - 36	610	1
0820 0011	Spare chisels	M10	4 - 17	35	1
0820 0012	Spare chisels	M16	8 - 24	35	1
0820 0013	Spare chisels	M24	19 - 36	40	1



At the disposal of residues on smooth Surfacen.

MATADOR Scraper. Extremely sharp.



What are scraper?

A scraper is a tool with minimum **one cutting edge** to scrape.

Scrapers are used to smooth metal surfaces in hundredths of a millimetre in the metal sector. The most common form is the triangular and blunt scraper.

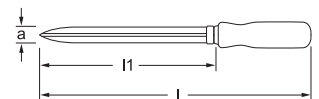
Gasket scraper used for disposal of residues on cylinder heads, valve covers and flat scrapers.

Glass scraper consists of extreme sharp blades. They are useful to remove labels, adhesive residues on surfaces of glass without causing scratches.

0788 Three-Edged Hollow Ground Scraper



- Working ends polished
 - Flanged blade made of Chrome Vanadium steel
 - With lacquered wooden handle
- Standard: DIN 8350 Form B
- Material: Chrome Vanadium

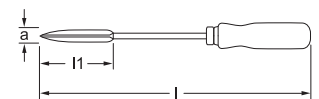


Art. Code	l mm	l "	l1 mm	l1 "	a mm	g	
0788 0001	260	10	150	6	16	130	5
0788 0002	310	12	200	8	16	190	5
0788 0003	380	15	250	10	16	250	5

0789 Curved Bearing Scraper



- Working ends polished
- Flanged blade made of Chrome Vanadium steel
- With lacquered wooden handle

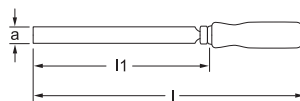


Art. Code	l mm	l "	l1 mm	l1 "	a mm	g	
0789 0001	260	10	150	6	16	100	5
0789 0002	310	12	200	8	16	140	5
0789 0003	380	15	250	10	16	200	5

0790 Flat scraper

- Working ends polished
- Flanged blade made of Chrome Vanadium steel
- With lacquered wooden handle
- Standard: DIN 8350 Form A

- Material: Chrome Vanadium

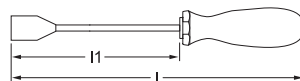


Art. Code	l mm	l" mm	l1 mm	l1" mm	a mm	g	
0790 0001	270	10	150	6	20	160	5
0790 0002	310	12	200	8	20	230	5
0790 0003	380	15	250	10	25	320	5



0840 Gasket scraper

- For removal of waste on washers and gaskets
- Long type
- Working ends polished
- With impact resistant plastic handle

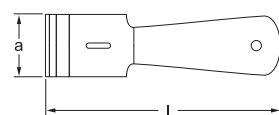
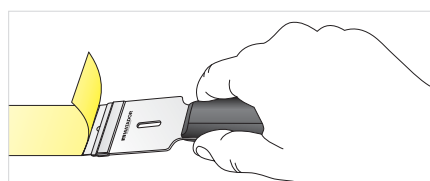


Art. Code	l mm	l" mm	l1 mm	l1" mm	g	
0840 0001	250	10	150	6	110	5



0841 Multi Purpose / Glass Scraper

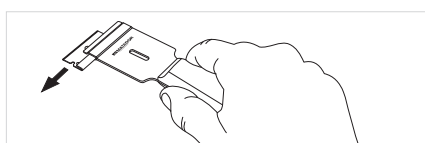
- Heavy-duty scraper with extremely sharp blade
- For unsticking labels, cleaning glasses and other smooth materials
- No scratches on glass
- With strong extra-wide grip to prevent sore hands
- With hanging hole
- Blade with red edge protector



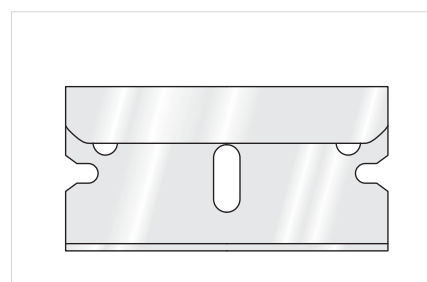
Art. Code	l mm	a mm	g	
0841 0001	120	39	30	5



- Spare blades (10 pcs)



Art. Code	h mm	l mm	b mm	g	
0841 0095	0.30	39	19.33	5	1

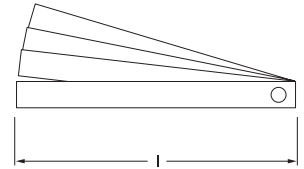


Measuring tools.

0760 Feeler Gauges



- Blades fold into metal case
- Blade length 100 mm
- 4" tapered blades
- Surface: Polished
- Material: Spring steel stripmaterial

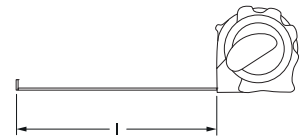


Art. Code	l mm	g	
0760 0002	13	0,05 - 1,00	70
0760 0003	20	0,05 - 1,00	100
0760 0005	13	2 - 35 / 100	50
0760 0006	20	2 - 40 / 100	80

0798 Measuring Tape

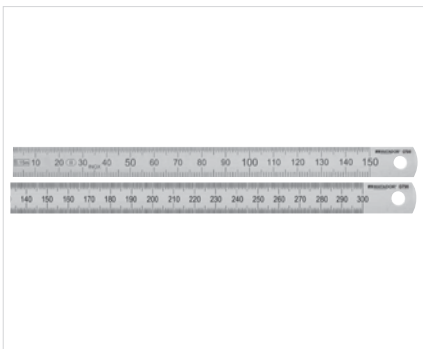


- Automatic tape rewriter with return stop
- Measuring tape vaulted
- With double scale and hook for precise inside and outside measurements
- Very solid

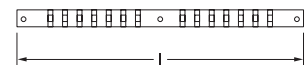


Art. Code	l mm	g	
0798 0002	3	70	10
0798 0005	5	85	10

0798 Rules, flexible



- Hardened steel
- Satin chrome finish
- Etched reading mm and 1/2 mm
- Double scale
- Material: Spring hardened steel



Art. Code	l mm	g	
0798 1020	200 x 15 x 0,5	6	10
0798 1030	300 x 15 x 0,5	20	10

0798 Rules, non flexible



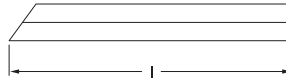
- Hardened steel
- Satin chrome finish
- Etched reading mm and 1/2 mm
- Double scale
- Material: Spring hardened steel



Art. Code	l mm	g	
0798 2030	300 x 30 x 1,0	25	5

0798 Precision Straight-Edge Rule

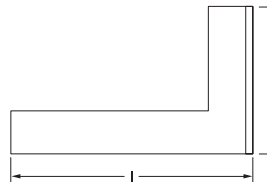
- For checking the evenness of surfaces
- With two measuring edges
- Measuring surfaces lapped
- hardened
- With heat-insulated handle
- Material: Stainless steel
- Standard: DIN 874



Art. Code	mm	g	
0798 3020	200 x 22 x 6	105	1

0798 Workshop Squares

- For locksmith work
- Blade with stop, 90° angled,
- Material: Special steel, zinc plated



Art. Code	l mm	g	
0798 3110	100 x 70 (20 x 5)	150	1
0798 3120	200 x 130 (28 x 6)	650	1
0798 3130	300 x 175 (32 x 7)	1000	1

0798 Spirit Level

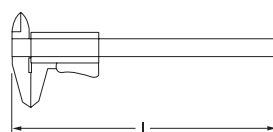
- With one horizontal and one vertical vial
- Solid acrylic block vials
- Accuracy of 0,5 mm/ metre = 0,028° in standard position
- Unbreakable, unadjustable, weather constant



Art. Code	mm	g	
0798 9040	400	300	1

0798 Precision Vernier Caliper

- For inside, outside and depth measuring
- Display 0.05 mm - 0.008"
- Accord. to DIN 862
- Matt chrome finish
- With raised slideways
- Vernier scale extended up to 39 mm
- Jaws 40 mm
- With thumb lock
- Material: Stainless steel



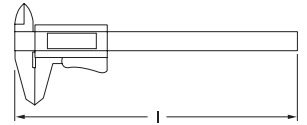
Art. Code	l mm	g	
0798 5015	150	110	1

0798 Electronic Caliper



- For inside, outside, step and depth measuring (4 ways)
- Display and accuracy 0.01 mm -0.0005"
- Reversible from mm to inch
- With interface RS232C for data processing
- Accuracy according to DIN 862
- In plastic case

- Material: Stainless steel, hardened
- Surface: Matt chrome finish

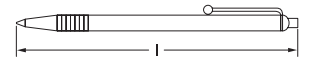


Art. Code	l mm	g	
0798 5020	150	410	1

0799 Hard Metal Marking Tool

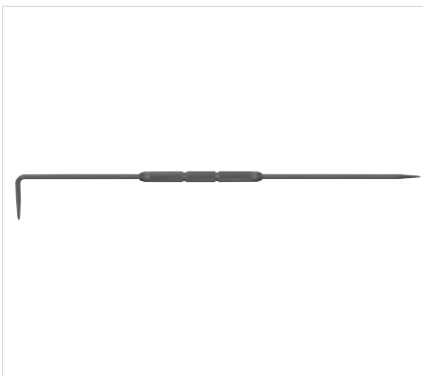


- Retractable for protection of the point and prevention of injuries
- Replaceable
- Secure hold of the point via chuck
- Shaft with clip and knurled grip area

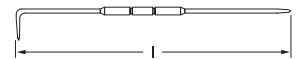


Art. Code	l mm	g	
0799 0001 Standard-Type	140	15	10
0799 0002 For hard materials	140	14	10
0799 0003 Spare Tip			

0799 Scriber



- With one straight and one angled screwed-in steel point
- Handle gun metal finish and knurled



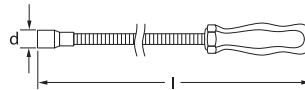
Art. Code	l mm	g	
0799 1010	250	52	10
0799 1020 Spare Tip sraight			
0799 1030 Spare Tip bent			



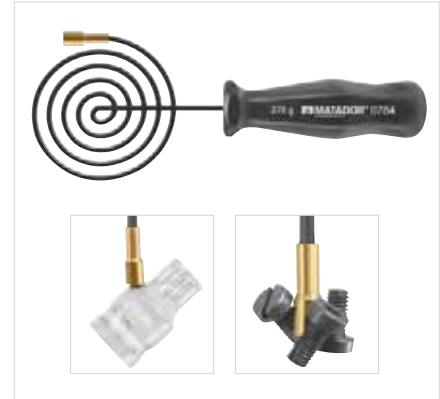
Pick-up tools.

0784 Mini Magnetic Pick Up Tool

- Mini-Magnetic Pick Up Tool
- Flexible
- Diameter of magnet only 4 mm
- Perfect in household



Art. Code	g	d mm	l mm	g	
0784 0004	270	4	400	22	1



0784 Magnetic Pick Up Tools

- With Neodym-magnet
- Very high capacity
- With flexible shaft



Art. Code	g	d mm	l mm	g	
0784 0005	500	8	460	60	1
0784 0001	1000	12	460	80	1
0784 0002	1800	15	520	220	1
0784 0003	3000	19	520	320	1

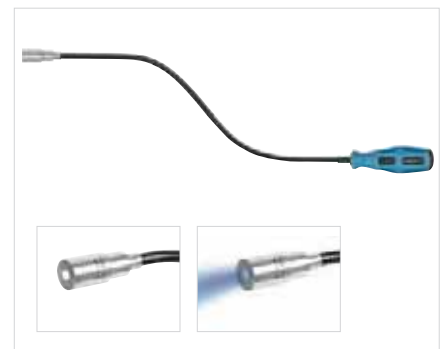


0785 Magnetic Pick Up Tools with lamp

- Extra long (600 mm!)
- With LED light
- High capacity (up to 1500g)
- With flexible shaft



Art. Code	l mm	g	
0785 0001	600		1
0785 0002	Spare lamp		10



0876 Magnetic Pick up and Inspection Tools

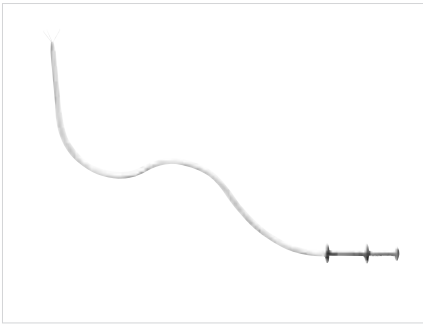
- The most important Magnetic Pick-up Tools and Inspection Mirrors in one set with soft foam inlay
- Contains 1 Telescopic Magnetic Pick-up Tool, fixed (capacity 8 lbs), 1 Exchange Magnet,

- flexible (capacity 8 lbs), 1 Mini Exchange Magnet, flexible (capacity 3.5 lbs), 1 Telescopic Inspection Mirror, rectangular (2" x 3.1/2"), 1 Exchange Mirror, round (diameter 1.1/4")

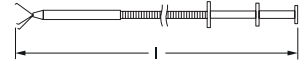
Art. Code	mm	l mm	g	
0876 0002	65 x 43	40 - 680	80	1



0877 Gripping Tool with Claw



- With flexible shaft
- For gripping small pieces in otherwise inaccessible places
- Chrome plated

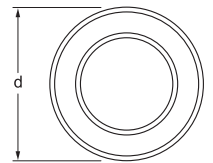


Art. Code	d mm	l mm	g	
0877 0001	7	540	115	1

0878 Magnetic Parts Bowl



- For storage of nuts, bolts, screws, etc
- Whilst working
- Bowl has rubber covered magnetic base for affixing to metal objects such as vehicle bodywork
- Tool boxes etc. Magnetism transfers to inner surface of bowl to retain small metal parts, nuts, bolts, etc.



Art. Code	d mm	g	
0878 0001	150	300	1

7125 Knee pads



- Knee pads in universal size
- With one belt
- Protects your knees during work

Art. Code	g	
7125 0001	50	1

7110 Micro fine woven gloves



- According to CE / EN 420 / 388
- Very comfortable design and fit
- Especially breathable fabric
- With PU reinforced gripping palm
- Ideal for working with small parts
- Silicone-free, also suitable for allergy sufferer
- 12 pair / box

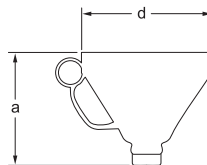
Art. Code		g	
7110 0001	L	8	10
7110 0002	XL	9	20
7110 0003	XXL	10	25

Lubrication.



0792 Hopper

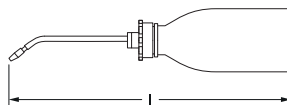
- Made of black plastic
- With strainer
- Flexible screw off tube



Art. Code	a mm	d mm	g	
0792 0001	120	160	150	1

0793 Plastic Oiler

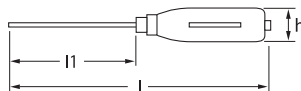
- With double-stroke pump
- Plastic



Art. Code	ccm	g	
0793 0001	300	200	5

0793 Precision Oiler

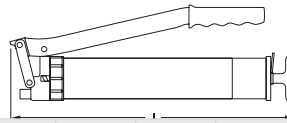
- For precision oiling in tight and hard-to-reach places and machines
- Aluminium construction
- For use with lubricants only
- Generous reservoir
- Convenient pocket clip



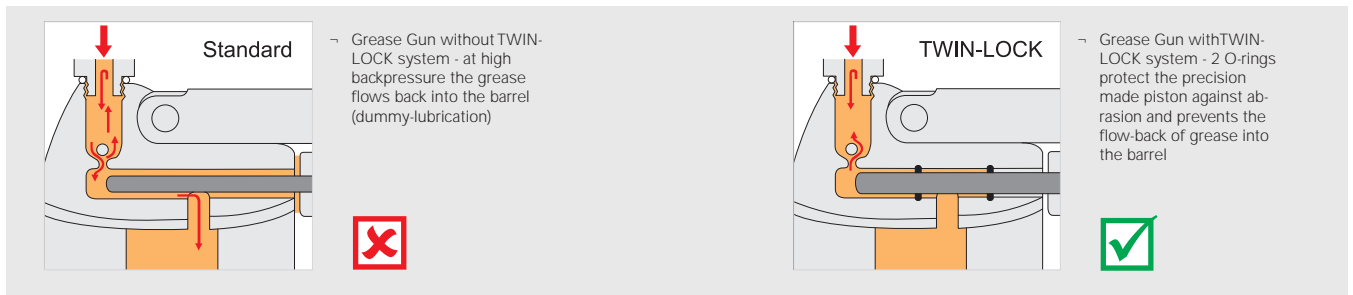
Art. Code	h mm	l mm	l1 mm	mm	g	
0793 0002	15	145	50	5 - 5/8	40	1

0794 Lever Grease Gun TWIN LOCK

- With TWIN-LOCK system
- Against dummy-lubrication (!), the life-insurance for every bearing point
- Grease gun according to DIN 1283 - for 400 g cartridge or 500 g bulk grease
- Robust industrial construction
- Connecting thread M10 x 1
- Complete with 4-jaw hydraulic coupler, angled spout, flexible hose



Art. Code		mm	ccm	g	
0794 0005	Set		500	1700	1
0794 0001	Lever Grease Gun		500	1500	1
0794 0002	Hydraulic Coupler			80	1
0794 0003	Angled Spout	150		30	10
0794 0004	Flexible Hose	12 x 300		120	10



8174 Dielectric grease



- Acid Grease
- Saltwater resistant
- Also suitable for aluminum
- Corrosion protection for battery terminals, cable shoes etc.

Art. Code	ml	g	
8174 0001	50	40	1

8174 Talc



- The perfect rubber care
- For tires, tubes, seals, cuffs, soft plastics, latex, etc.
- Sputtering and possibly rub slightly
- Protects against heat and aging-related bonding

Art. Code	ml	g	
8174 0003	100	40	1

8174 Multi-function oil



- High viscosity
- Undercuts rust, water and dirt
- Lubricates, nourishes and solves
- For locks, play equipment, office machines, weapons, gummy ignition locks etc.

Art. Code	ml	g	
8174 0002	125	40	1

8174 Graphite



- Highest purity
- Lubricant for all locks, hinges, bolts, etc.
- In the car, home and in the workshop

Art. Code	ml	g	
8174 0004	100	50	1

8146 Rust remover

- Highly effective flow and lubrication oil
- Removes rust and all other fixed compounds on screws, nuts, iron railings, lattice towers etc.
- Lubricates everything effectively
- Highly effective against squeaking and creaking noises
- Effective wear protection
- Corrosion protection



Art. Code		ml	g	
8146 0001		500	500	1

8146 Brake cleaner

- Cleans and degreases brakes and all other parts
- Ideal as an universal cleaner
- Evaporates without residue and dries quickly
- Cleans brake & clutch parts without dismantling, removes brake fluid, oil, dust etc. and helps maximize brake efficiency, even removes resinous deposits
- Also ideal for pre-treatment in binding work on glass and metal



Art. Code		ml	g	
8146 0002		500	500	1

Practical helpers.

9060 Assortment of locknuts

150



Art. Code		g	
9060 0001		620	1
Content	🌀 25 x M4 - 35 x M5 - 25 x M6 - 30 x M8 - 25 M10 - 10 x M12		

9060 Assortment of copper washers

150



Art. Code		g	
9060 0004		290	1
Content	☉ 10 x R01 - R02 - R03 - R04 - R05 - R06 - R07 - R08 - R09 - R10 - R11 - R12 - R13 - R14 - R15		

9060 Assortment of O-rings

225



Art. Code		g	
9060 0006		120	1
Content	☉ 3 - 22 mm		

9060 Assortment of rubber grommets

110



Art. Code		g	
9060 0007		165	1
Content	🌀		

9060 Assortment of snap rings

300



Art. Code		g	
9060 0009		280	1
Content	🌀 3 - 32 mm		

9060 Assortment of E-clips

300



Art. Code		g	
9060 0010		450	1
Content	🌀 30 x 1,6 - 30 x 3,2 - 40 x 4,8 - 50 x 6,4 - 50 x 9,5 - 40 x 12,7 - 20 x 15,9 - 20 x 19,1 - 20 x 22,2 mm		

9060 Assortment of roll pins

315



Art. Code		g	
9060 0011		770	1
Content	—		

9060 Assortment of hair pins

150

Art. Code		g	
9060 0012		405	1
Content 35x 1,8 x 33 - 35x 1,8 x 40 - 40x 2,0 x 30 - 20x 2,8 x 41 - 14x 3,6 x 44 - 6x 3,9 x 75 mm			



9060 Assortment of cotter pins

500

Art. Code		g	
9060 0013		545	1
Content 150x 1,6 x 25,4 - 150x 2,4 x 25,4 - 85x 2,4 x 38,1 - 60x 3,2 x 31,2 - 35x 3,2 x 50,8 - 20x 4,0 x 63,5 mm			



9060 Assortment of hose clamps

26

Art. Code		g	
9060 0014		300	1
Content 8 x 16 - 6 x 22 - 4 x 25 - 2 x 28 - 2 x 35 - 4 x 40 mm			



9060 Assortment of springs

200

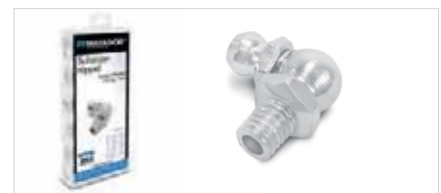
Art. Code		g	
9060 0015		340	1
Content			



9060 Assortment of grease nipples

110

Art. Code		g	
9060 0017		480	1
Content 30x M6 (180°) - 10x M6 (45°) - 10x M6 (90°) - 10x M8 (180°) - 10x M8 (45°) - 10x M8 (90°) - 10x M10 (180°) - 10x M10 (45°) - 10x M10 (90°)			



9060 Assortment of fuses for automotive

120

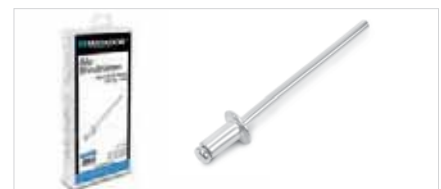
Art. Code		g	
9060 0018		200	1
Content 20 x 5 Amp - 20 x 10 Amp - 20 x 15 Amp - 20 x 20 Amp - 20 x 25 Amp - 20 x 30 Amp			



9060 Assortment of aluminium rivets

150

Art. Code		g	
9060 0019		270	1
Content 50x 3,2 x 6,4 - 50x 4,0 x 8,0 - 50x 4,8 x 9,6 mm			



Focusing on the essentials.

Bright lights casts dark shadows. Not with the MATADOR LED lamps.

Equipped with high performance LEDs.



LED – the future of light has begun.

LEDs are electronically light sources, based on modern semiconductor compounds; conquer in more fields of applications.

They have an extreme long life and are completely insensitive of shocks and flexible applicable.

They hold 1000 times longer than conventional light bulbs; have much higher light yield; consume little energy and hardly produce any heat.

LEDs are environmentally friendly; contain no toxic filler gas; produce no UV radiations.

In short:
LEDs are the perfect light source.

The LED assortment of MATADOR.

LED flashlights and working lights are getting more and more popular in the last years. They can be used in all areas of life.

But which is sufficient for amateurs, is not enough for professionals.

At first glance the qualities of LEDs are hardly recognizable and technical details are embellished by vendors.

Reliable light quality can only be seen when it matters.

MATADOR builds on quality instead of quantity. 5 LED lamps are suitable for most application fields.

Developed and tested by experienced technicians.

5 Lamps with up to 450 Lumen.



ML 1: The practical one. Small, slim, robust. With clip.



ML 2: The bright one. The focused spot with high lighting performance.



ML 3: The inconspicuous one. Use your hands for more important things.



ML 4: The working lamp. Thanks to powerful NI-MH batteries always applicable.



ML 5: The champion. Extreme bright thanks of unique components. Produced in Germany.

The meaning of Lumen (lm).

Luminous flux is the most important term for characterising the performance of a lamp.

It refers to the amount of light or light energy that is actually radiated from a light source. But what is measured?

Some manufacturers indicate the luminous flux of the LED or incandescent light bulb and neglect to say that it is significantly reduced by the losses in the reflector/lamp head (sometimes by over 30%).

MATADOR luminous flux values are values measured with spectrometers in a distance of 1 m to the lamp and show the real values.

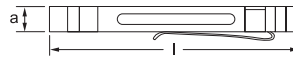
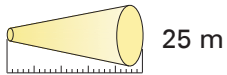
You can rely on our values.



0885 LED pen lamp ML 1

- Handable and practical pen lamp
- For every installer and technician
- With clip for short pocket
- Perfect lighting
- With silicone switch
- Rugged aluminium housing

High End CREE	Lumen 25	7h	water proof IP 54	2xAAA 1.5V	15 mm	132 mm
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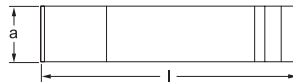
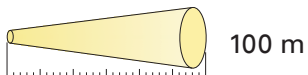


Art. Code	l mm	a mm	g	
0885 0001	138	15	48	1

0886 LED flash light ML 2

- The classic one
- Small and tight
- More lighting range than other flash lights
- Focused lens for perfect lighting range
- Rugged aluminium housing

High End CREE	Lumen 105	7h	water proof IP 54	3xAAA 1.5V	27 mm	105 mm
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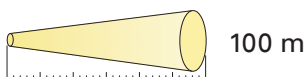
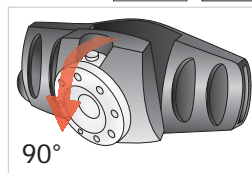


Art. Code	l mm	a mm	g	
0886 0001	105	27	100	1

0887 LED head lamp ML 3

- Head lamp for bright heads and empty hands
- With infinitely variable dimmable CREE® LED Chip
- 90° vertical latching swiveling for optimal illumination of the field of view
- High wearing comfort
- The ideal companion for outdoor, home and work

High End CREE	Lumen 200	4h	water proof IP 54	3xAAA 1.5V	28 mm	mm variable
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Art. Code	Ø mm	g	
0887 0001	28	120	1

For perfect mobility.

The MATADOR LED Working Lamp ML 4. Useful and durable.



Shock-protected housing, splash-proofed according to IP 54.

With red and green light for indicating state of charge.

With strong magnet for flexible assembly.

Revolvable display for ideal illumination of working area.

180° swivelling in 5 steps.

30 super bright LEDs (extrem long life).

High End LED

Lumen 260

8 h operating time.

Environment-friendly and powerful Ni-MH batteries without memory effect.

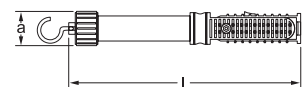
360° hook.

- Focused light
- In stable packaging
- Swivel in all directions
- Shows remaining battery charge

0888 LED Working Lamp ML 4



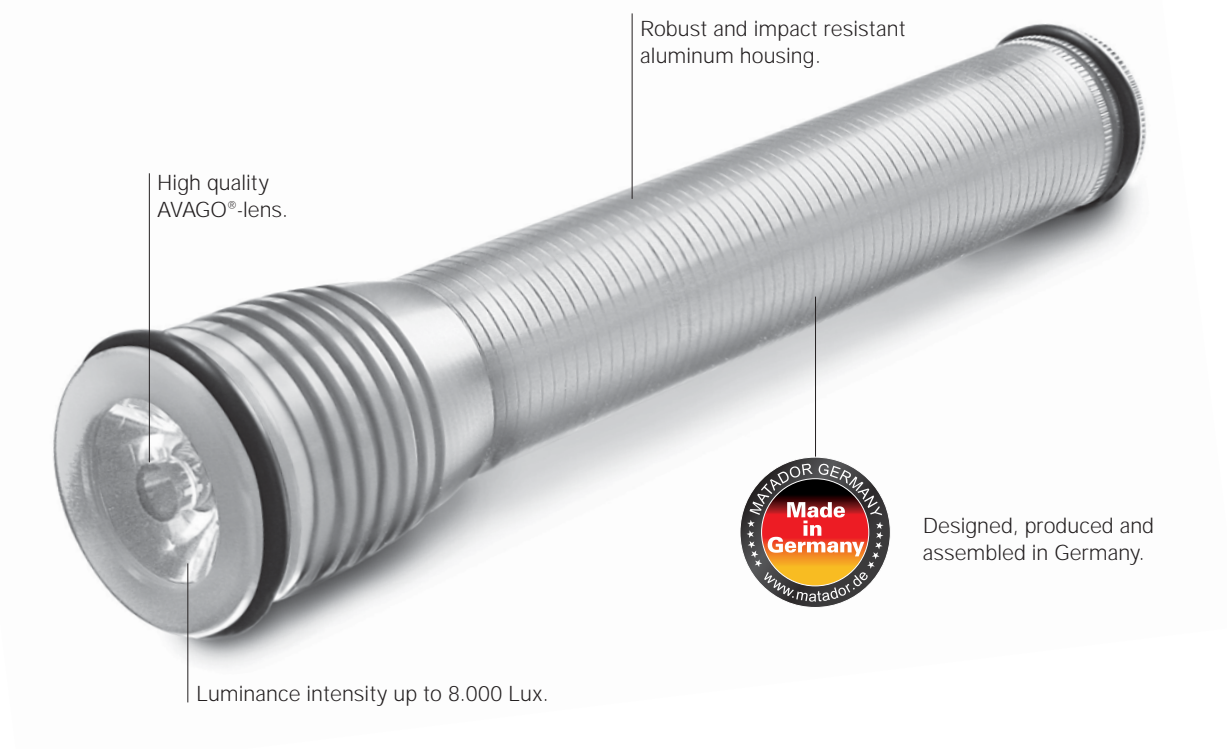
- Cordless LED working lamp
- Portable for all lighting purposes, e.g. car maintenance, construction sites etc.
- For easy illumination of car repair work (e.g. engine, underfloor)
- Durable and solid design
- 30 super bright LEDs (cold light - no risk of burning)
- With environment-friendly Ni-MH batteries
- Technical data:
 - Batteries: 4,8V / 2000 mAh Type: NiMH
 - Input: AC 100-240V ~50 / 60Hz
 - Output: DC 12V 500mA
 - Charging time: 6h
 - Operating time: 8h
 - Lifetime: ~100.000h
 - Working temperature: -5°C / +45°C
 - 180° swivelling



Art. Code	l mm	a mm	g	
0888 0001	355	45	500	1

Discover a new world with this light.

The absolute Champion: MATADOR's ML 5. 450 Lumen und 300m lighting range.



300 m

- Extreme lighting range

- With 4W CREE® chip out of the latest generation

- New, high-quality brand components

- Compact dimensions

0889 LED Working Lamp ML 5

- Rugged aluminium housing made of high quality material
- Only glued and screwed for security reasons
- CREE® Chip, 4 watt
- 450 lumen, 8000 Lux on 1 meter
- Light beam: 6° for a perfect point illumination
- Light temperature: 6000 Kelvin
- Lighting range: 300 meters
- Burning life: after 12 hours still 4000 Lux, after 60 hours more than 100 Lux
- Lifetime chip: minimum 50000 hours
- Waterproof IP 67
- Battery: 3 batteries LR 14 (baby), 4,5 Volt

High End CREE

Lumen 450

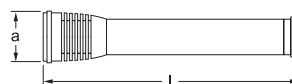
12h

water proof
IP 67

3xAAA 4.5V

40

220



Art. Code	l mm	a mm	g	
0889 0001	220	40	450	1

Content Automotive tools.

Page Article group



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- 311 Pick Hammer
- 311 Cross Pein and Finishing Hammer
- 311 Planishing Hammer
- 311 Balanced Ding Hammer
- 311 Double Bumping Hammer
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Windscreen repair.

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- 318 Seal Cutter
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- 319 Cutting Wire Kit XL
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- 320 Nozzle Adjusting Tool



Lifters.

- 321 Suction Lifters (rigidly)
- 321 Suction Lifters (flexible)



Tools for brakes / wheels / chassis

- 322 Wheel Nut Wrenches for trucks.
- 322 Tommy Bar
- 322 Four Way Rim Wrench for cars
- 323 Four Way Rim Wrench for trucks
- 323 Four Way Rim Wrench for trucks, forged
- 323 SlimPOWER Impact Sockets
- 324 Balancing Weight Pliers
- 324 Special Flat Nose Pliers
- 324 Tyre Levers
- 325 Pry Bars
- 325 Set of Pry Bars, 4 pcs
- 326 Flare Nut Wrenches
- 326 Brake Adjusting Spanner
- 326 Brake Caliper Brush
- 326 Brake Caliper File
- 327 Coil Spring Compressor Set
- 327 Universal Spring Compressor
- 327 Spreader for shock absorbers



Exhaust system and hose clamps.

- 328 Chain Pipe Cutter
- 328 Hose Clamp Pliers
- 329 Hose Clamp Pliers
- 329 Hose Clamp Pliers for torque wrenches



Valves and piston rings.

- 330 Valve Ring Pliers
- 330 Suction Valve Grinder Stocks
- 330 Piston Ring Pliers
- 330 Piston Ring Compressors

Page Article group



Battery and cooling system.

- 331 Voltage Tester
- 331 Battery Cell Tester
- 331 Battery Terminal Brush
- 331 Antifreeze Tester



Oil service.

- 332 Special Drain Plug Wrenches
- 332 Universal Strap Wrenches Eco
- 332 Universal Strap Wrenches Pro
- 333 Universal Oil Filter Wrench
- 333 Cartridge Wrench for trucks
- 333 Oil Filter Sockets



Spark- and glowplugs.

- 334 Spark Plug Wrench with handle
- 334 Spark Plug Wrench with tommy bar
- 334 Spark Plug Wrench (swivelling long type)
- 335 Spark Plug Wrench (straight long type)
- 335 Spark Plug Pliers
- 335 Spark Plug Brush
- 336 Spark Plug Sockets 10 (3/8)
- 336 Glow Plug Sockets 10 (3/8)
- 336 Spark Plug Sockets 12.5 (1/2)



Special sockets.

- 337 Socket for injection nozzles
- 337 Crown Socket for injection nozzles
- 337 Crown socket for pre-chambers





Automotive Tools.

Be a MATADOR.

Top-grade industrial quality. Blow by blow.

MATADOR bodywork and bumping tools.



For the repair of all metal parts.

Bodywork and bumping tools are essential for the repair of all metal parts.

The product range of MATADOR includes all types of hammers for body work as well as numerous dollies, anvil blades and body and fender tools.

MATADOR bodywork and bumping tools have been tried and tested many times. For many years, numerous OEMs and their workshops come to trust the quality of the MATADOR body work tools.

Durable quality.

All MATADOR bodywork and bumping tools are precisely forged and manufactured in Germany and meet our strict quality standards.

As a basic equipment the MATADOR tool kits "L" and "XL" with all major bodywork tools have proven their value. They are a must have for every workshop.



0732 Single Bumping Hammer

- With ash handle
- With ground faces
- Blue lacquered
- Material: Hardened / tempered steel

Art. Code	l mm	mm	l mm	g	
0732 0001	165	28	330	710	1



0732 Pick Hammer

- Short pattern
- With ash handle
- With ground faces
- Material: Hardened / tempered steel
- Blue lacquered

Art. Code	l mm	mm	l mm	g	
0732 0003	137	37	300	360	1



0732 Cross Pein and Finishing Hammer

- With ash handle
- With ground faces
- Blue lacquered
- Material: Hardened / tempered steel

Art. Code	l mm	mm	l mm	g	
0732 0004	160	40	300	405	1



0732 Planishing Hammer

- With two faces
- With ash handle
- Blue lacquered
- Art. Code 0732 0007: short pattern with one milled cross-hatched face and one smooth square face
- Material: Hardened / tempered steel

Art. Code	l mm	mm	l mm	g	
0732 0006	105	32/25	290	305	1
0732 0007	100	40/35	310	395	1



0732 Balanced Ding Hammer

- With ash handle
- With ground faces
- Blue lacquered
- Material: Hardened / tempered steel

Art. Code	l mm	mm	l mm	g	
0732 0008	155	40/31	310	495	1



0732 Double Bumping Hammer

- With ash handle
- With ground faces
- Blue lacquered
- Material: Hardened / tempered steel

Art. Code	l mm	mm	l mm	g	
0732 0010	160	31	330	540	1



0734 Dollies and Anvil Blocks

- Drop forged
- Blue lacquered
- With ground faces
- Material: Hardened / tempered steel



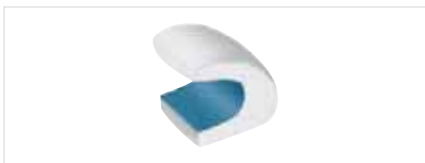
Art. Code	mm	g	
0734 0001	72 x 55 x 63 („VW“)	1100	1



Art. Code	mm	g	
0734 0002	130 x 55 x 36	950	1



Art. Code	mm	g	
0734 0003	100 x 40 x 80 x 70 x 62	1370	1



Art. Code	mm	g	
0734 0004	70 x 54 x 68	1300	1



Art. Code	mm	g	
0734 0005	80 x 60 x 33	1050	1



Art. Code	mm	g	
0734 0006	104 x 66 x 25	950	1



Art. Code	mm	g	
0734 0007	120 x 58 x 23	760	1



Art. Code	mm	g	
0734 0010	60 x ø56 x ø56 („Diabolo“)	750	1



Art. Code	mm	g	
0734 0011	130 x 48 x ø58	930	1



Art. Code	mm	g	
0734 0014	192 x 45 x 77	1600	1



Art. Code	mm	g	
0734 0015	125 x 55 x 25	1100	1



Art. Code	mm	g	
0734 0017	110 x 51 x 55 („Daimler“)	1600	1

0735 Body and Fender Tools

- Drop forged
- Blue lacquered
- With ground faces
- Material: Hardened / tempered steel



Art. Code	mm	g	
0735 0001	400 x 25 x 58	1050	1



Art. Code	mm	g	
0735 0002	440 x 58 x 150	1900	1



Art. Code	mm	g	
0735 0003	500 x 58	2200	1



Art. Code	mm	g	
0735 0004	270 x 30x 18	550	1



Art. Code	mm	g	
0735 0005	300 x 50	800	1

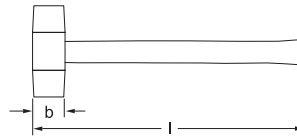


Art. Code	mm	g	
0735 0006	390 x 25 x 58	1000	1

0733 Light metal hammer

- Perfect for all kind of bodywork
- Cylindrical pattern
- With ash handle

- Material: Aluminium



Art. Code	b mm	l mm	g	
0733 0350	40	105	350	1

0736 Bumping Tool Kit L

- Kit with the most important bumping tools
- In solid metal case (575 x 220 x 80 mm), black



Art. Code	g	
0736 9080	8900	1
Content	<ul style="list-style-type: none"> 0738 113 x 64 mm (16 oz) 0732/7 300 mm 0732/8 300 mm 0734/1 72 x 55 x 63 mm 0734/2 130 x 55 x 36 mm 0734/5 80 x 60 x 33 mm 0734/7 120 x 58 x 23 mm 0734/10 60 x ø56 x ø56 mm 	



0736 Bumping Tool Kit XL

- Large workshop assortment
- All major bumping tools in one kit
- In heavy duty metal case (730 x 250 x 120 mm), black



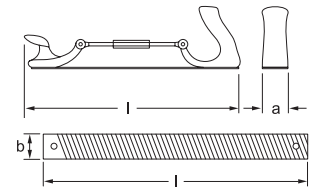
Art. Code	g	
0736 9120	15000	1
Content	<ul style="list-style-type: none"> 0700/3 32 mm 0732/3 300 mm 0732/4 300 mm 0732/7 300 mm 0732/8 300 mm 0734/2 130 x 55 x 36 mm 0734/7 120 x 58 x 23 mm 0734/10 60 x ø56 x ø56 mm 0734/11 130 x 48 x ø58 mm 0735/2 440 x 58 x 150 mm 0735/5 300 x 50 mm 0735/6 390 x 25 x 58 mm 	



0740 Body Work File Holder



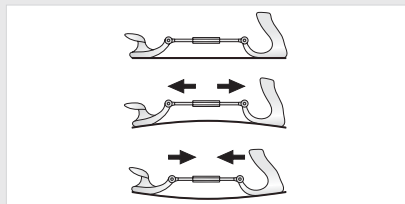
- For quick removing of high spots
- Mill-cut body file
- Material: Cast aluminium



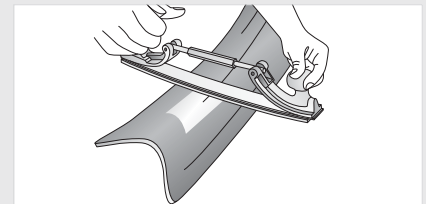
Art. Code		b mm	a mm	l mm	g	
0740 0001	Body work file holder with file blade		30	350	820	1
0740 0002	Body work file holder without file blade		30	350	560	1
0740 0003	File blade, Coarse / cut 1, radial cut, Form A	35		350	270	1
0740 0005	File blade, grob, Coarse / cut 1, diagonal cut, Form A	35		350	270	1
0740 0006	File blade, Half-round (hollow) / cut 1, radial cut, Form F	35		350	270	1



- With turnbuckle for easy adjustment



- For flat and curved applications

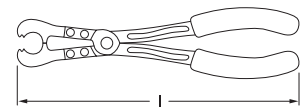


- For comfortable use with two hands

0546 Door Spring Pliers



- For removing spring clips on doors and windows

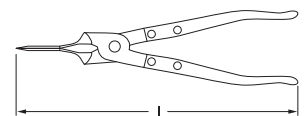


Art. Code		l mm	l "	g	
0546 0001		200	8	75	5

0549 Door trim panel pliers



- For removing bolts on door panels, mouldings and bumper rubber strips
- Material: Special steel
- Surface: Nickel plated

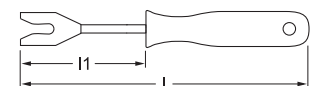


Art. Code		l mm	l "	g	
0549 0001		230	9.1/4	180	1

0842 Door panels removal tool



- For fast and easy removing of mouldings and door panels
- Jaw opening 6 mm
- Material: Special steel



Art. Code		l mm	l1 mm	g	
0842 0001		176	60	90	1



0741 Punch and Flange Tool

- Labor saving tool, crimps edges on sheet metals up to 1mm thickness
- With rotating head, allows to punch holes in panels also
- Single-handed, low-force operation
- Single hand push-button release
- Self opening
- Hardened jaws
- Crimping capacity 13 mm
- Jaw width 22 mm

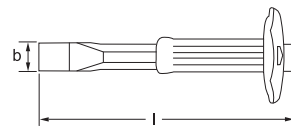


Art. Code	t mm	b mm	l mm	g	
0741 0001	20	22	290	1200	1



0846 Car Body Chisel

- For cutting sheet metal, welding spots, welding grooves etc.
- With hand guard, blade size 7 x 26 mm
- Self hardening steel

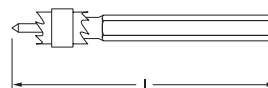


Art. Code	b mm	l mm	g	
0846 0001	26	240	150	1



0860 Spot Weld Cutter HSS

- For loosening of spot welds
- Black, with 7 mm hexagon shank
- Interchangeable cutting crown

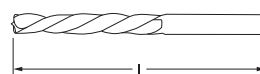


Art. Code	b mm	l mm	g	
0860 0001	10	72	30	5
0860 0002	Milling Crown HSS			5
0860 0003	Spare Centering Pin			5



0862 Spot Weld Drill HSS-E Co 5

- For burr-free drilling and center punching
- Extreme high precision
- With center tip as ground point
- For sheet steel, brass, aluminium, zinc, copper, plastic sheets etc.
- Average tolerance: h8



Art. Code	mm	l mm	g	
0862 0003	6	66	5	10
0862 0004	8	80	10	10

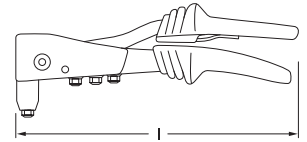


0872 Professional Handriveter



- Professional riveter with 3 spare jaws
- Body made of aluminium die casting
- Slim head design for difficult access areas
- With safety lock
- Magazine and leg in the riveter body

- Blind Rivets diameter:
 - highgrade steel: 2.4 - 4.8 mm
 - steel: 3.0 - 4.0 mm
 - copper: 3.0 - 4.0 mm
 - inox: 3.0 - 4.0 mm

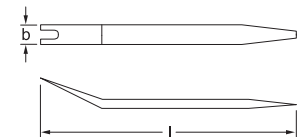


Art. Code	l mm	g	
0872 0001	250	550	1
0872 0090	Spare jaws		

0843 Plastic Wedge



- For fast and easy removing of mouldings and door covering
- Avoids damage of lacquered surfaces
- One side open / bent (for loosening door / cover clips), one side with flat pin to fix plastic clips



Art. Code	b mm	l mm	g	
0843 0001	20	210	25	1

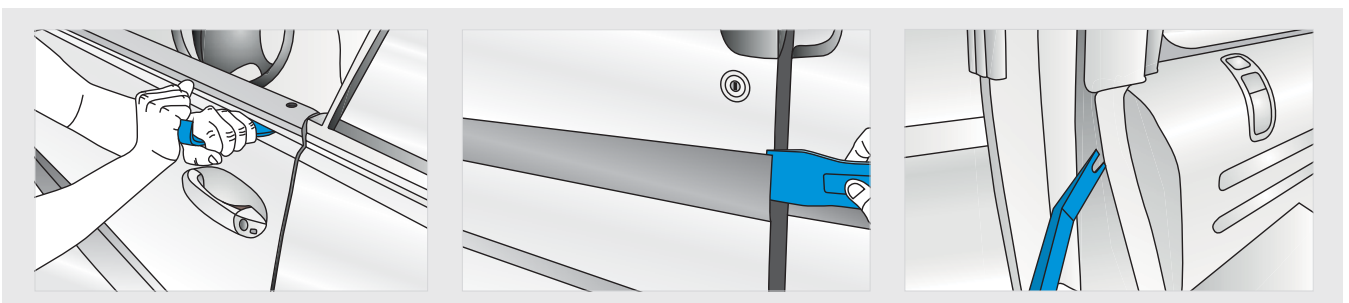
0843 Trim & Panel Removal Kit



- Professional trim and panel removal kit
- Plastic tools allow you to dismantle upholstery and plastic panels without scratching or damaging painted, leather, chrome-plated and other surfaces
- For fast and convenient trim panel, upholstery and car interior elements removal (dashboard items, radios, door cards, moulding, etc.)
- Also suitable for household for many applications



Art. Code	l mm	g	
0843 9050	160 - 200	100	1



Automotive Tools.

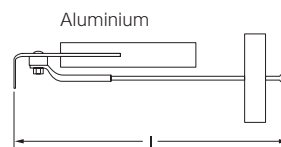
Tools for windscreen repair.



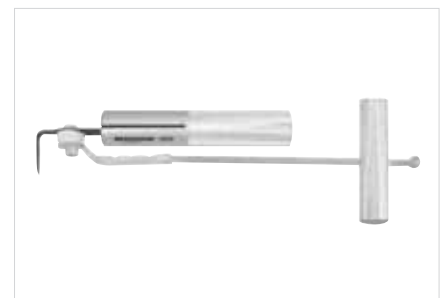
0858 Windshield Removing Tool

- For removal of windshields, backlights and bonded backlights
- Cuts the sealant around windows with specially designed tempered steel blade
- Pull handle provides additional leverage
- Including 25 mm blade

- Material:

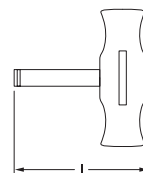


Art. Code		l mm	g	
0858 0001		130	240	1



0858 Pull Handles, pair

- Ergonomically designed hand grip
- With one component handle
- Set with 2 handles



Art. Code		g	
0858 0002		110	1




293



175



175

0858 Cutting Wire



- Good cutting effect
- Very flexible
- Operates like a saw
- Best suited for cutting of wide and hard glue bondings in hard to access areas

- Material: Brass plated steel wire

Art. Code	mm	l m	g	
0858 0002	0.8	22.5	80	1

0858 Cutting Wire



- Best cutting effect
- Very flexible
- Operates like a knife
- Best suited for cutting of wide and hard glue bondings in easy to access areas

- Material: Stainless steel wire

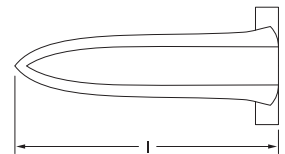
Art. Code	mm	l m	g	
0858 0004	0.6 x 0.6	22.5	100	1

0858 Seal Cutter 25 mm



- For use with windshield removing tool
- Length 25 mm
- Sword form
- Attachment length 13 mm

- Material: Special Steel



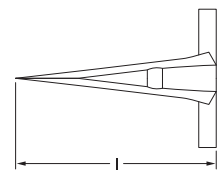
Art. Code	l mm	g	
0858 0025	25	20	1

0858 Seal Cutter 38 mm



- For use with windshield removing tool
- Length 38 mm
- Tip tapered
- Slim type

- Material: Special Steel



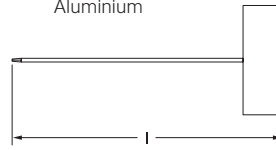
Art. Code	l mm	g	
0858 0038	38	20	1



0858 Wire Inserting Tool

- For piercing the glue trim and inserting the cutting edge wire
- With steel tube hollow needle

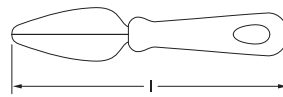
- Material: Aluminium



Art. Code		l mm	g	
0858 0005		125	60	1

0858 Universal Sharpening Stone

- For sharpening the pull knife blades and universal knife blades
- With hanging hole
- With one component handle



Art. Code		l mm	g	
0858 0006		170	70	1

0858 Cutting Wire Kit S

- Kit with two pull handles, wire inserting tool and cutting wire 22.5 m (0013)
- Or saw wire of round material 22.5 m (0014)
- Best suited for cutting of wide and hard glue bondings in hard to access areas

- Good cutting effect
- Very flexible

4

Art. Code		g	
0858 0013		250	1
Content	0858 0,8 x 22,5 m 0858 125 mm 0858		
0858 0014		270	1
Content	0858 0,6x0,6 x 22,5 m 0858 125 mm 0858		



0858 Cutting Wire Kit XL

- Kit with all major tools for windscreen repair

9

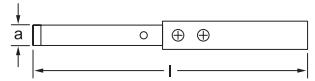
Art. Code		g	
0858 9090		650	1
Content	0858 0,6 x 50 m 0858 0858 125 mm 0858 0858 38 mm 0858 0858 19 x 240 mm 7111 XL (9)		



0858 Pinch Weld Scraper



- With interchangeable spring steel blade
- Working length max. 115 mm
- Aluminium handle

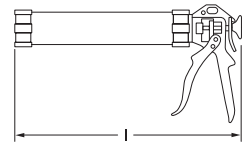


Art. Code	l mm	a mm	g	
0858 0007	240	19	100	1
0858 0097	Interchangeable blade		19	10

0859 Hand cartridge gun 310 ml



- For working with 310 ml cartridges and softpacks
- Fast and simple change of cartridges
- Good leverage ratio, with anti drip device
- Metal housing

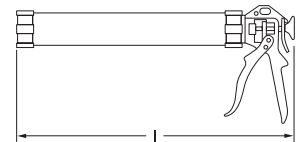


Art. Code	ml	l mm	g	
0859 0001	310	340	750	1

0859 Hand cartridge gun 600 ml



- For working with 600 ml cartridges and softpacks
- Fast and simple change of cartridges
- Good leverage ratio, with anti drip device
- Metal housing

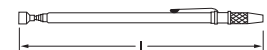


Art. Code	ml	l mm	g	
0859 0002	600	480	1100	1

0863 Nozzle Adjusting Tool



- Telescopic handle with Neodym magnetic head
- Capacity 500 g
- 6 mm diameter
- For adjusting the nozzles of the washing system, can be used to demonstrate the jet direction to the window, adjusting needle and protective cap
- With pocket clip
- Material: Special steel
- Surface: Zinc plated



Art. Code	l mm	g	
0863 0001	150 - 660	25	10

For diverse loads. Makes working with unwieldy parts quicker and more effective.

High quality suction cup lifters for plain and curved surfaces.

For all kind of loads and materials like glass, plastic, metal, wood and stone.

High capacity due to vacuum.

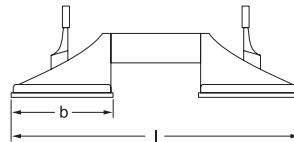
Solid quick-release lever.

With rigid (864) or flexible (865) cups.



0864 Suction Lifters (rigidly)

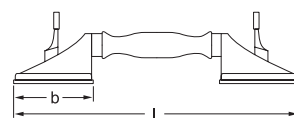
- Firm suction cups, for plain panes
- For all kinds of loads, for all materials
- For fast and efficient working
- Resistant to oil and acid
- Capacity 60 kg (parallel)



Art. Code	b mm	kg	l mm	g	
0864 0001	120	60	324	560	1

0865 Suction Lifters (flexible)

- Suitable for all materials with curved surfaces
- For fast and efficient working
- Resistant to oil and acid
- Capacity 45 kg (parallel)



Art. Code	b mm	kg	l mm	g	
0865 0001	120	45	390	800	1

Automotive Tools

Tools for brakes / wheels / chassis.

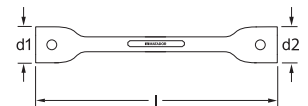


0340 Wheel Nut Wrenches for trucks



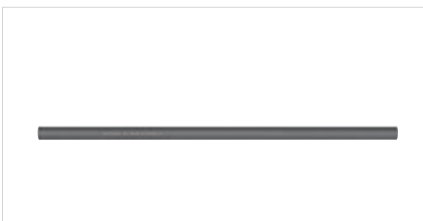
- For trucks
- Double ended, 6 point
- For tommy bar diameter 18 mm
- Material: Chrome Vanadium

- Surface: KTL-coated



Art. Code	mm	"	d1 mm	d2 mm	l mm	g	
0340 2427	24 x 27	15/16 x 1.1/16	37	41	400	1300	1
0340 2732	27 x 32	1.1/16 x 1.1/4	41	47	400	1350	1
0340 0003	32 x 38	1.1/4 x 1.1/2	47	54	400	1400	1
0340 3032	30 x 32		45	47	400	1500	1
0340 3233	32 x 33		47	48	400	1450	1
0340 2833	28 x 33	5/8 x 3/4	42	48	400	1450	1

0342 Tommy Bar



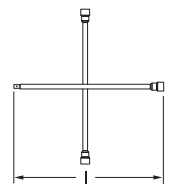
- Material: Chrome Vanadium
- Surface: KTL-coated

Art. Code	mm	l mm	g	
0342 0600	18	600	1200	5

0350 Four Way Rim Wrench for cars



- Welded version
- 6 point
- With MATADOR SmartDrive profile
- Material: Chrome Vanadium
- Surface: Matt chrome finished

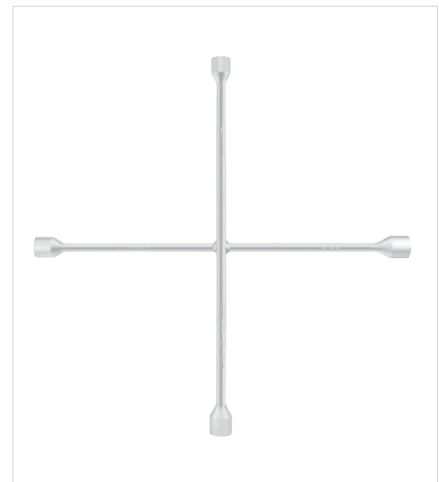
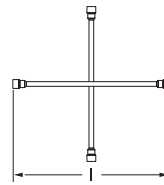


Art. Code	mm	"	l mm	g	
0350 1001	17 x 19 x 21	1/2	380	1300	5

0355 Four Way Rim Wrench for trucks



- Welded version
- For trucks
- Fully hardened
- Standards: DIN 3119 / ISO 6788
- Material: Chrome Vanadium
- Surface: Matt chrome finished

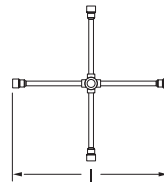


Art. Code	mm	*	l mm	g	
0355 0001	19 x 22 x 24 x 27	3/4 x 7/8 x 15/16 x 1.1/16	600	3100	1
0355 0002	24 x 27 x 32 x 38 + 13/16"	15/16 x 1.1/16 x 1.1/4 x 1.1/2 + 13/16	750	4800	1
0355 0003	24 x 27 x 30 x 32 + 13/16"	15/16 x 1.1/16 x 1.3/16 x 1.1/4 + 13/16	750	4800	1
0355 0004	24 x 27 x 32 x 3/4" + 13/16"	15/16 x 1.1/16 x 1.3/16 x 3/4 + 13/16	750	4800	1
0355 0011	27 x 30 x 32 x 33 + 13/16"	1.1/16 x 1.3/16 x 1.1/4 x 1.5/16 + 13/16"	750	4800	1

0356 Four Way Rim Wrench for trucks, forged



- With forged middle part
- High capacity, tested up to 2,000 N-m
- Arms and middle part hardened, polished heads
- Standards: DIN 3119 / ISO 6788,
- Material: Chrome Vanadium
- Surface: Matt chrome finished

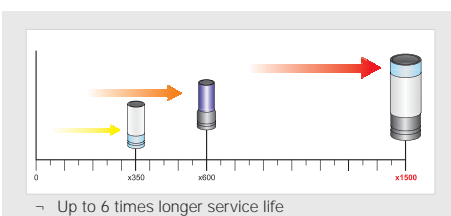
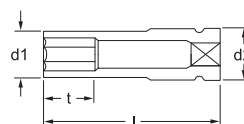
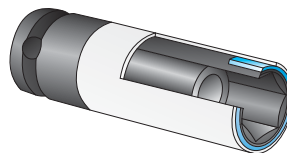


Art. Code	mm	*	l mm	g	
0356 0001	24 x 27 x 30 x 32	15/16 x 1.1/16 x 1.3/16 x 1.1/4	750	5500	1
0356 0002	24 x 27 x 32 x 3/4"	15/16 x 1.1/16 x 1.1/4 x 3/4"	750	5750	1
0356 0003	27 x 30 x 32 x 33	1.1/16 x 1.3/16 x 1.1/4 x 1.1/4 x 1.5/16	750	5750	1
0356 0004	27 x 30 x 32 x 3/4"	1.1/16 x 1.3/16 x 1.1/4 x 3/4"	750	5750	1

7481 SlimPOWER Impact Sockets

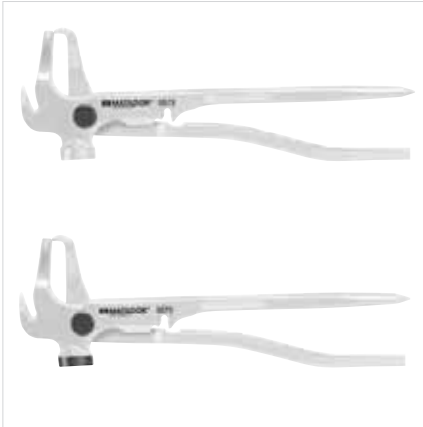


- For wheel mounting and dismounting
- Allow up to 6 times longer service life in comparison to other impact sockets
- With plastic sleeve to protect the rings when screwing the wheel nuts
- For use with impact wrenches
- Exchangeable plastic head with color code
- Standards: DIN 3121 / ISO 1174
- Material: Chrome Molybdenum



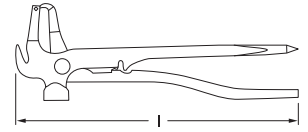
Art. Code	mm	t mm	d1 mm	d2 mm	l mm	g
7481 1170	17	20	26	25,5	86	220
7481 1190	19	20	28	27,5	86	240
7481 1210	21	20	30	29,5	86	270
7481 9030	Satz					750

0573 Balancing Weight Pliers



- For fixing, shifting, removing and cutting weights on wheel rims
- Also for expanding and compressing retaining springs
- Type with plastic head esp. for alu rims and laquered weights

- Material: Chrome Vanadium
- Surface: Matt chrome finish



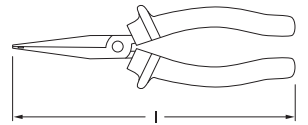
Art. Code	l mm	l "	g	
0573 0001	240	9.1/2	310	5
0573 0002	240	9.1/2	310	5
0573 0095			10	1

0585 Special Flat Nose Pliers



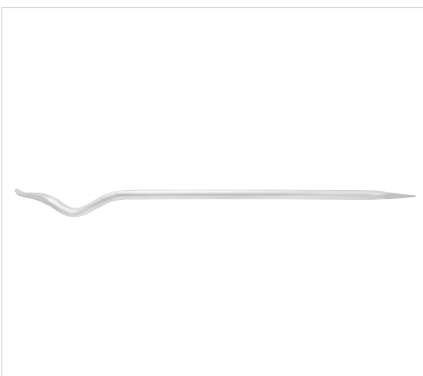
- With groove
- Enables the damage-free removal of wheel nut caps on aluminium rims
- Also suitable for flat protections etc.
- Jaw length / width: 85 / 9 mm

- Material: Chrome Vanadium



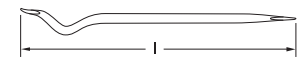
Art. Code	l mm	l "	g	
0585 0014	160	8	200	1

0753 Tyre Levers

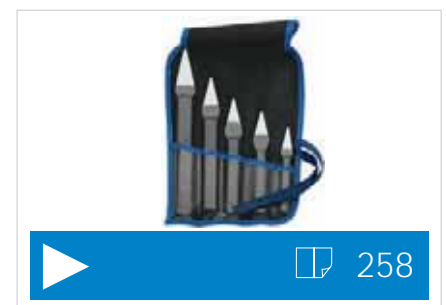


- Heavy-duty version
- Especially for trucks
- For tire installation and removing
- For steel and aluminium rims
- Tips hardened

- Material: Chrome Vanadium
- Surface: Matt chrome finish



Art. Code	l mm	l "	g	
0573 0002	400	16	620	5
0573 0003	500	20	790	5
0573 0004	600	24	970	5



0754 Tyre Levers

- Double T-profile for high stability
- Drop forged
- For tire installation and removing, for steel and aluminium rims, also suitable for general purposes

- Material: Chrome Vanadium
- Surface: Matt chrome finish



Art. Code	l mm	l "	g	
0754 0002	400	16	425	5
0754 0003	500	20	550	5
0754 0004	600	24	750	5



0757 Pry Bars

- With octagonal shank

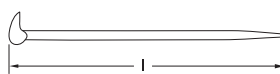


Art. Code	l mm	l "	g	
0757 0001	400	16	550	5

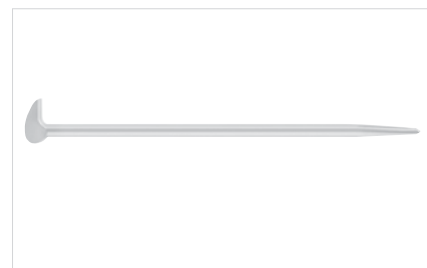


0758 Pry Bars

- Pry Bar Round Head
- For difficult applications
- Material: Chrome Vanadium
- Surface: Matt chrome finish

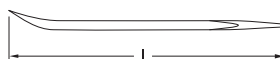


Art. Code	l mm	l "	g	
0758 0001	410	20	450	5

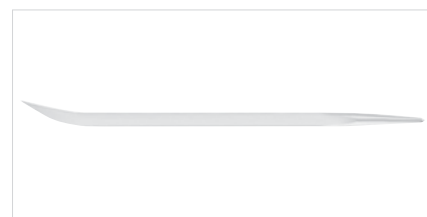


0759 Pry Bars

- With 4-pt. shank



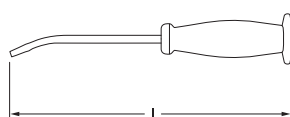
Art. Code	l mm	l "	g	
0759 0001	400	16	510	5



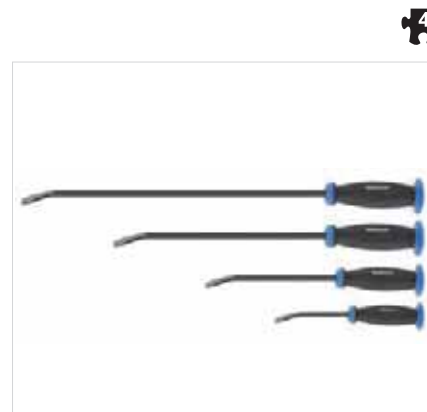
0759 Set of Pry Bars, 4 pcs

- For many applications
- For repair work on trucks (for bearing bushings, cab bearings, cardan shaft slackness etc.)
- Solid 4-pt. blade for heavy use
- With plastic handle

- Material: Chrome Molybdenum
- Surface: Black coated



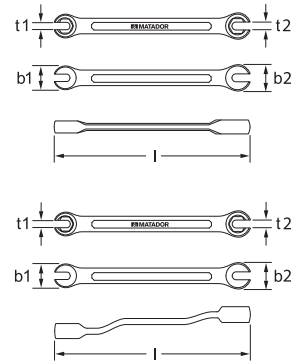
Art. Code	l mm	l "	g	
0759 0010	200, 300, 450, 600	7.3/4, 12, 18, 23.1/2	1600	1



0250 Flare Nut Wrenches

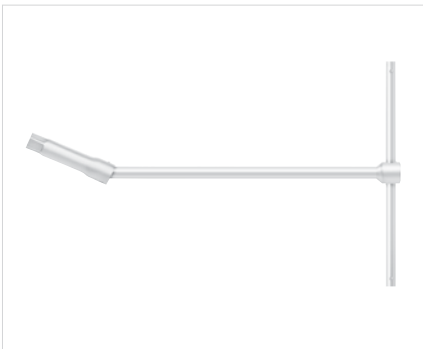


- For screwed connections on brake lines
- To reach the screws at front and back axle, reinforced design
- With 6-pt and straight slot
- Material: Chrome Vanadium
- Surface: Matt chrome finish

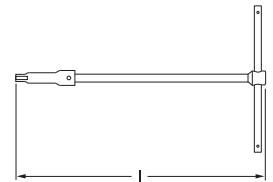


Art. Code	mm	Execution	t1 mm	t2mm	b1 mm	b2 mm	l mm	g	
0250 0001	10 x 12	straight type	7,0	8,5	20,5	22,3	150	80	10
0250 0002	10 x 11	bent type	7,0	8,5	20,5	22,3	175	75	10

0255 Brake Adjusting Spanner



- Universal spanner, for various vehicles
- Material: Chrome Vanadium
- Surface: Matt chrome finish

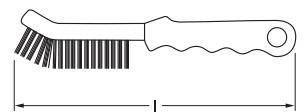


Art. Code	mm	l mm	g	
0255 0001	10	310	320	1

0852 Brake Caliper Brush



- For removal of brake dust and dirt from the caliper shaft
- For disk brakes, slim design
- With plastic handle and suspension hole

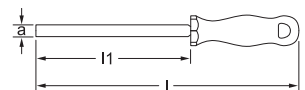


Art. Code	l mm	l "	g	
0852 0001	225	9.1/2	60	10

0854 Brake Caliper File



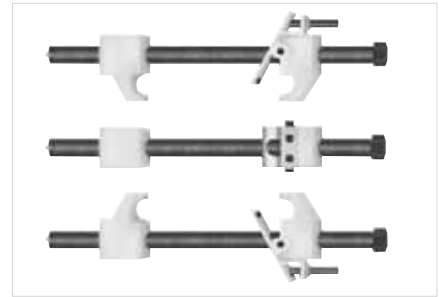
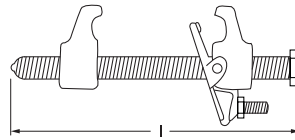
- For removal of brake dust, dirt und rust from the caliper shaft
- For disk brakes
- Cut: gross
- Coarse level cut on one side (to prevent damage of dust boot)
- With plastic handle and suspension hole
- Bevel toothed, 12 mm width
- Material: Special steel



Art. Code	a mm	l1 mm	l mm	l "	g	
0854 0001	12	155	265	10.1/2	110	10

0563 Coil Spring Compressor Set

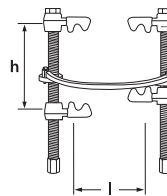
- For assembling and disassembling of all usual coil springs for cars up to 1.500 kg max. weight
- 3 pieces



Art. Code	l mm	l"	g	
0563 0030	300	12	4350	1

0563 Universal Spring Compressor

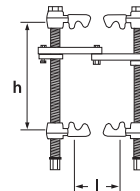
- For MacPherson suspension units, range of uses: MacPherson suspensions with spring-Ø from 110 - 180 mm;
- For vehicles with an unladen weight of 2 tons
- For changing shock absorbers without removing the suspension strut
- With safety guard
- Use of impact driver permitted



Art. Code	max. load t	mm	h mm	l mm	g
0563 0010	3,5	19	240	110 - 180	2400

0563 Universal Spring Compressor

- Universal spring compressor with safety guard
- For vehicles with an unladen weight of 2 tons
- Safe grip
- Safe work thanks to its wide blades

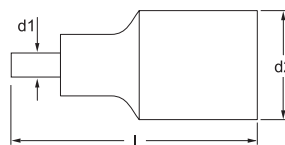


Art. Code	max. load t	mm	h mm	l mm	g
0563 0040	1,8	19	200	110 - 180	2800
0563 0050	1,8	19	300	110 - 180	3100
0563 0060	1,8	19	400	110 - 180	2950

4078 Spreader for shock absorbers

- For spreading of the front shock absorber tube from the wheel bearing housing
- Blade black
- For VW, Audi, Ford, Peugeot etc.

- Material: Chrome Vanadium
- Surface: Matt chrome finish



12,5 mm 1/2



Art. Code	d1 mm	d2 mm	l mm	g
4078 0031	8.2 x 5.5	23	48	66

Automotive tools.

Tools for exhaust system and hose clamps.

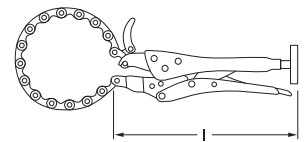


0808 Chain Pipe Cutter



- For cutting exhaust pipes up to 80 mm Ø and 2,5 mm thickness
- For V2A-steel, copper and PVC
- Especially for dismantling old exhaust systems
- T-screw and grip plier technique enable easy adjustment during cutting process

- Material: Special steel
- Surface: Nickel plated

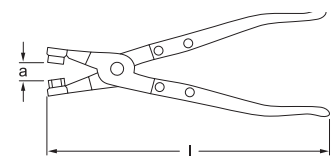


Art. Code	l mm	l"	g	
0808 0010	255	10.1/4	800	1
0808 0011	Spare chain		190	1

0548 Hose Clamp Pliers



- For universal clamps and especially for spring band hose clamps, with moveable jaws
- With revolving retaining bolt
- Material: Chrome Vanadium
- Surface: nickel plated

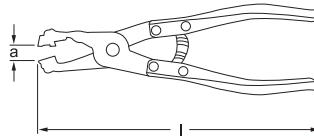


Art. Code	a mm	l mm	l"	g	
0548 0001	6 - 12	200	7.3/4	180	1

0548 Hose Clamp Pliers

- With moveable jaws, for tips contacting directly the tube (Type W)
- With prism seat for spring band clamps, esp. for fuel lines etc
- For VW, Audi, Mercedes Benz, Toyota etc.

- Material: Special steel
- Surface: Nickel plated

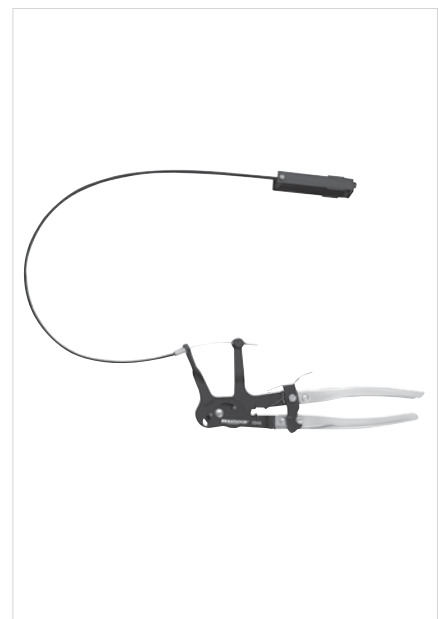
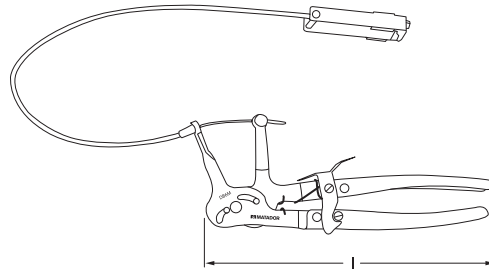


Art. Code	a mm	l mm	l"	g	
0548 0004	8 - 18	210	8.1/4	560	1

0548 Hose Clamp Pliers

- For self-gripping spring band hose clamps
- One-hand operation
- Esp. for areas with restricted access; e.g. on cooling and heating circuits
- With self adjusting joint
- Bowden cable wire control

- Material: Special steel
- Surface: Nickel plated

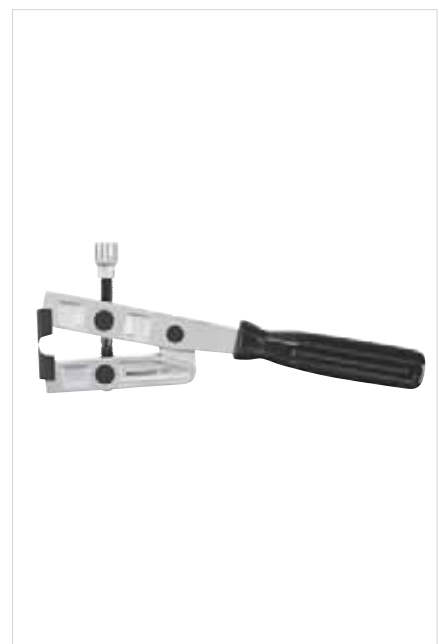
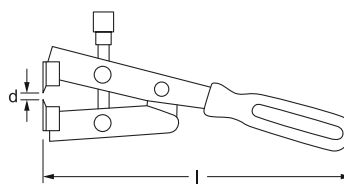


Art. Code	a mm	l mm	l"	g	
0548 0020	18 - 52	255	10.1/4	560	1
0548 0021				45	1
0548 0022				10	1

0551 Hose Clamp Pliers for torque wrenches

3/8 10 mm

- With 10 mm (3/8")-drive for the use with torque wrenches
- Enables clamping and / or compressing of hose clamps
- Suitable for new stainless steel hose clamps
- With blade in plastic handle
- Very light and robust aluminium construction



Art. Code	d mm	l mm	l"	g	
0551 0001	0,0 - 45,0	270	10.1/2	570	1

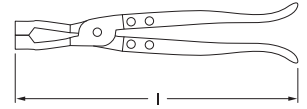
Automotive Tools.

Tools for valves and piston rings.

0418 Valve Ring Pliers



- For removing valve stem seals on 2-valve engines
- Straight, serrated
- With hardened jaws
- Material: Special steel
- Surface: Nickel plated

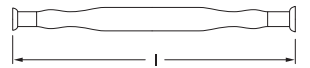


Art. Code	l mm	l"	g	
0418 0001	250		350	1

0419 Suction Valve Grinder Stocks



- For grinding the valve seating
- Both ends with rubber cup
- With wooden shaft

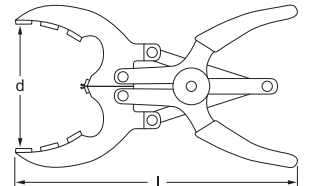


Art. Code	mm	l mm	g	
0419 0001	16 x 21	200	63	1
0419 0002	28 x 34	200	63	1

0565 Piston Ring Pliers

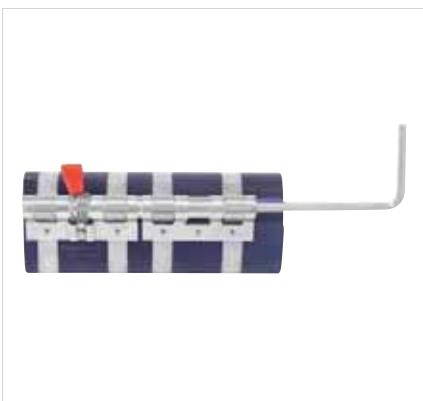


- For removing and mounting piston rings
- With plastic handles
- Material: Special steel
- Surface: Nickel plated

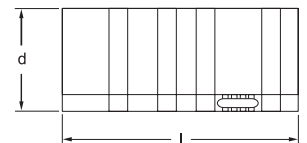


Art. Code	Ø d mm	Ø d"	l mm	l"	g	
0565 0001	50 - 100	2 - 4	200	8	230	1
0565 0002	90 - 140	3.1/2 - 5.1/2	240	9.1/2	370	1

0567 Piston Ring Compressors



- For inserting the piston with ring into the cylinder, stepless adjustment, with key,
- High grade tool steel



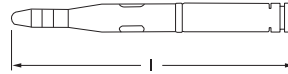
Art. Code	Ø d mm	Ø d"	l mm	l"	g	
0567 0001	40 - 75	1.1/2 - 3	50	2	90	1
0567 0002	60 - 125	2.1/4 - 5	80	3.1/8	320	1
0567 0003	90 - 175	3.1/2 - 7	80	3.1/8	360	1
0567 0004	90 - 175	3.1/2 - 7	165	6.1/2	680	1

Automotive Tools.

Tools for battery and cooling system.

0633 Voltage Tester

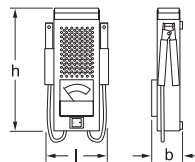
- For checking lightning and ignition systems
- Testing range 6 to 24V
- With tip, protective cap, fixed cable and clip
- blade Chrome Vanadium steel



Art. Code	h mm	l mm	g	Box
0633 0001		120	70	10

0633 Battery Cell Tester

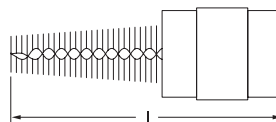
- Fast diagnosis of the charging system and state of the battery
- Measuring range 6 and 12 Volt up to 1000 CCA; with easy to read display
- For up to 100 Ampere
- For passenger cars and motorcycles



Art. Code	h mm	l mm	b mm	g	Box
0633 0010	290	160	80	1220	1

0783 Battery Terminal Brush

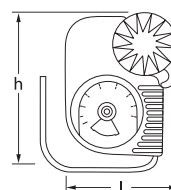
- For cleaning battery terminals
- In plastic box



Art. Code	l mm	g	Box
0783 0001	120	20	10

0806 Antifreeze Tester

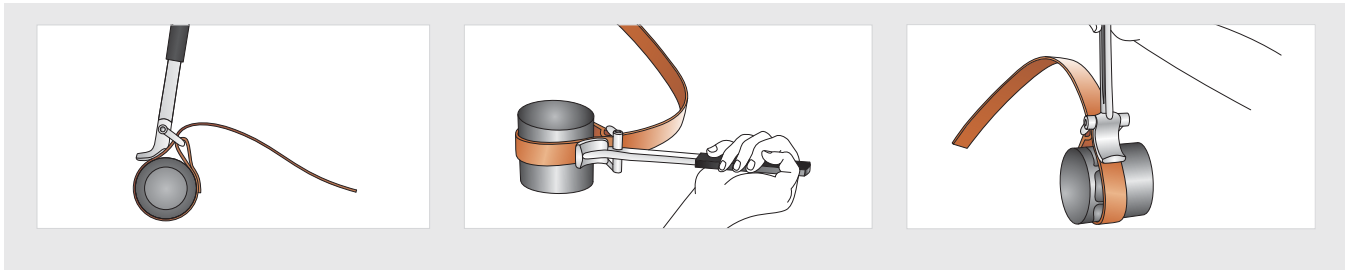
- Large, easy-to-read scale in a compact and heavy duty instrument
- Automatic temperature compensation allows accurate reading at all temperatures
- Fast, bubble free intake of fluid samples avoids measurement errors due to air bubbles
- Automatic air-lock prevents fluid loss and air bleed
- Tests all ethylene glycol antifreeze coolants



Art. Code	h mm	l mm	g	Box
0806 0002	131	110	130	1

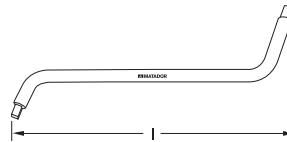
Automotive Tools.

Tools for the oil service.



0266 Special Drain Plug Wrenches

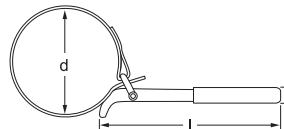
- To loose and tight the filler plug and oil drain
- For the oil filter and oil drain plugs on gearbox, differential and oil pan
- Material: Chrome Vanadium
- Surface: Matt chrome finish



Art. Code	mm	l mm	g	
0266 0001	8 x 10	240	250	10

0425 Universal Strap Wrenches Eco

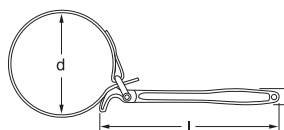
- For oil filters and other round shaped bodies
- With cotton textile tape, rubber coated, nonskidding
- Cushion grip handle



Art. Code	d mm	g	
0425 0001	max. 170	280	1
0425 0002	Spare strap	30	1

0426 Universal Strap Wrenches Pro

- For oil filters and other round shaped bodies
- With forged handle, heavy-duty construction
- Especially for commercial vehicles and agricultural machinery
- With cotton textile tape, rubber coated, nonskidding
- Material: Chrome Vanadium
- Surface: Matt chrome finish

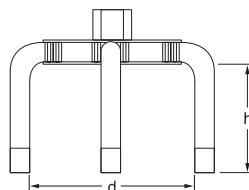


Art. Code	d mm	g	
0426 0001	max. 240	600	1
0426 0002	Spare strap	40	1

0428 Universal Oil Filter Wrench

1/2 12.5 mm

- For loosening oil filters
- Suitable for oil filters and air filters
- For cartridges- Ø of approx. 80 - 130 mm
- Material: Special steel
- Surface: Black phosphated

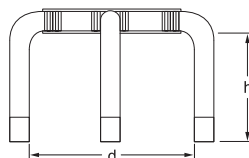


Art. Code	mm	"	mm	d mm	h mm	g	
0428 0003	12,5	1/2	21	80 - 130	50	680	1

0428 Cartridge Wrench for trucks

1/2 12.5 mm

- Heavy pattern, for loosening the granulates cartridge on commercial vehicles with compressed air dryer
- Material: Special steel
- Surface: Black phosphated



Art. Code	mm	"	d mm	h mm	g	
0428 0145	12,5	1/2	80 - 150	65	940	1

0429 Oil Filter Sockets

3/8 10 mm

- Fits all standard oil filter cartridges



Art. Code	mm	"	mm	mm	SW	mm	g
0429 0001			21	14-kt	74	84	175
0429 0004	10	3/8		6-kt	36	50	150
0429 0005	10	3/8		6-kt	32	45	145

MATADOR. One of the leading suppliers for the automotive industry.
Tools for spark and glow plugs.

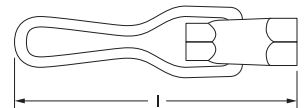


0366 Spark Plug Wrench with handle



- Universal spark plug wrench for most applications
- With swivelling handle

- Material: C35 hardened
- Surface: Matt chrome finish



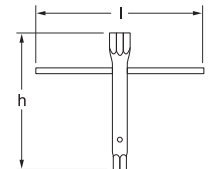
Art. Code	mm	"	mm	"	l mm	g	
0366 0001	16	5/8	20.8	13/16	155	130	5

0366 Spark Plug Wrench with tommy bar



- Universal spark plug wrench for most applications
- With tommy bar 10 mm Ø

- Material: C35 hardened
- Surface: Matt chrome finish



Art. Code	mm	"	mm	"	l mm	l mm	g	
0366 0002	16	5/8	20.8	13/16	150	200	290	5

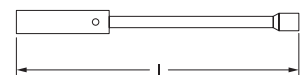
0367 Spark Plug Wrench (swivelling long type)

3/8" 10 mm



- With ball joint for difficult accessible spark plugs
- With square drive as per DIN 3120 C10 / ISO 1174

- Standards: DIN 3120 / ISO 1174
- Material: C35 hardened
- Surface: Matt chrome finish



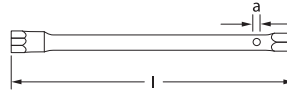
Art. Code	mm	"	mm	"	l mm	g	
0367 0016	16	5/8	10	3/8	270	285	5

0372 Spark Plug Wrench (straight long type)

6 1/2 12,5 mm

- Extra long type for difficult accessible spark plugs
- With rubber ply
- Can be used with tommy bar / 8 mm

- Material: C35 hardened
- Surface: Matt chrome finish

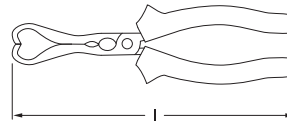


Art. Code	mm	"	mm	"	a mm	l mm	g	
0372 0002	16	5/8	12.5	1/2	8.5	270	180	5

0568 Spark Plug Pliers

2K

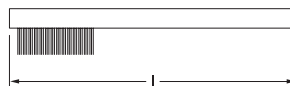
- For installing and removing of spark plug sockets
- Usable for warm engine and switched off ignition
- Long, straight, flat-round jaws
- With dual component handle



Art. Code	l mm	l"	g	
0568 2001	205	8	230	1

0781 Spark Plug Brush

- For cleaning of electrodes and contacts on spark plugs
- Special corrugated brass wire bristles
- 3 rows
- Trim size 15 mm
- Wooden body

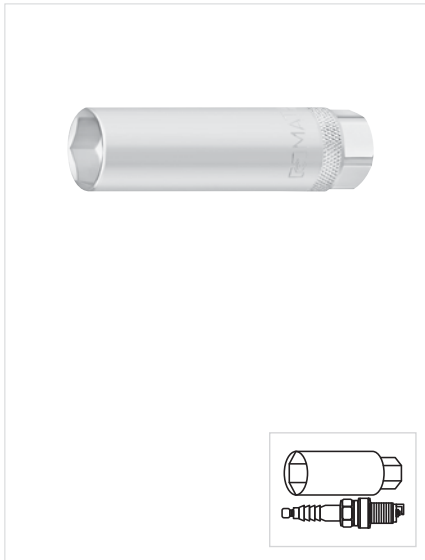


Art. Code	l mm	g	
0781 0001	150	10	10



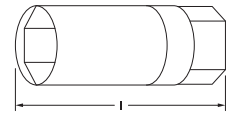
3081 Spark Plug Sockets 10 (3/8)

6 3/8 10 mm



- For spark plugs
- With rubber or magnet
- For hand operation
- Inner square drive acc. to DIN 3120 - C 10 / ISO 1174
- With six point profile
- With non-slip cross knurling

- Standard: DIN 3124 / ISO 2725-1
- Material: Chrome Vanadium
- Surface: Super-Chrom



Art. Code	mm	"		l mm	g	
3081 0140	14	9/16	Rubber type	65	100	10
3081 0160	16	5/8	Rubber type	65	100	10
3081 0180	18	11/16	Rubber type	65	110	10
3081 0208	20,8	13/16	Rubber type	65	120	10
3081 1160	16	5/8	Magnetic type	70	120	10
3081 1208	20,8	13/16	Magnetic type	70	140	10

3096 Glow Plug Sockets 10 (3/8)

6 3/8 10 mm



- Ideal for fast and safe dismantling and assembly of glow plugs
- With ball clamping to hold the glow plug
- With universal joint
- Inner square drive acc. to DIN 3120 - C 10 / ISO 1174
- With six point profile

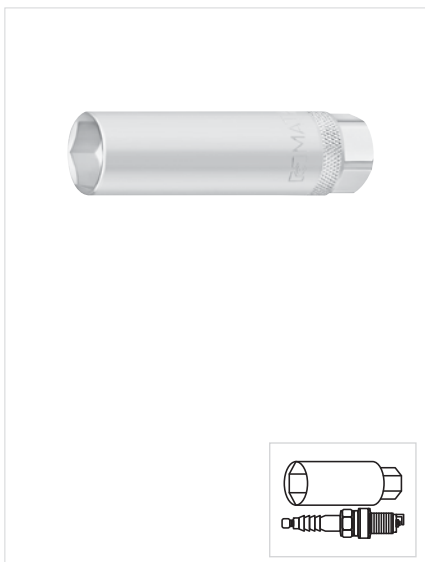
- Standard: DIN 3124 / ISO 2725-1
- Material: Chrome Vanadium
- Surface: Super-Chrom



Art. Code	mm			l mm	g	
3096 0080	8			89	80	1
3096 0090	9			89	80	1
3096 0100	10			70	80	1
3096 0120	12			70	80	1
3096 1090	9	Short type		50	20	1

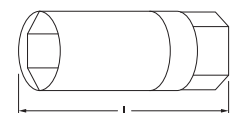
4081 Spark Plug Sockets 12.5 (1/2)

6 1/2 12,5 mm



- For spark plugs
- With rubber or magnet
- For hand operation
- Inner square drive acc. to DIN 3120 - C 12.5 / ISO 1174
- With six point profile
- With non-slip cross knurling

- Standard: DIN 3124 / ISO 2725-1
- Material: Chrome Vanadium
- Surface: Super-Chrom

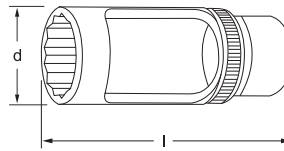


Art. Code	mm	"		l mm	g	
4081 0160	16	5/8	Rubber type	65	100	10
4081 0180	18	11/16	Rubber type	65	110	10
4081 0208	20,8	13/16	Rubber type	65	130	10
4081 1160	16	5/8	Magnetic type	70	170	10
4081 1208	20,8	13/16	Magnetic type	70	185	10

Special sockets.

4081 Socket for injection nozzles

- With notch (35 x 35 mm) for screwing of diesel injection nozzles without damaging the return pipe
- 12-pt
- Material: Special steel
- Surface: Black phosphated



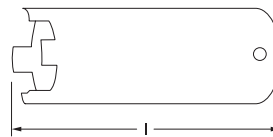
12,5 mm 1/2



Art. Code	mm	Slot	d mm	l mm	g	
4081 0060	27	35 x 35	27	81	375	1

7053 Crown Socket for injection nozzles

- For nozzle holder nut in diesel engines
- With four taps
- Extra deep; with inside bore for exhaust system
- Material: Special steel
- Surface: Matt chrome finish



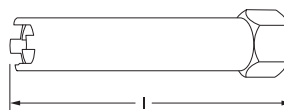
12,5 mm 1/2



Art. Code	l mm	g
7053 0001	73	110

7053 Crown Socket for injection nozzles

- For nozzle holder nut in diesel engines
- With four taps
- Extra deep; with inside bore for exhaust system
- Material: Special steel
- Surface: Black phosphated



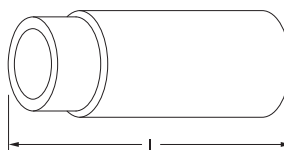
12,5 mm 1/2



Art. Code	mm	l mm	g
7053 0004	32	120	255

7053 Crown socket for pre-chambers

- Grooved Socket for pre-chambers
- With 58 teeth
- Material: Special steel
- Surface: Black phosphated



12,5 mm 1/2



Art. Code	mm	l mm	g
7053 0006	58	60	215

Content VDE.

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- 341 Universal cabinet key
- 341 Hex Keys (VDE)
- 342 T-Handles (VDE)



VDE-Ratchet and Sockets.

- 342 Reversible Ratchet (VDE)
- 342 Extension (VDE)
- 342 Sockets (VDE)



VDE-Pliers.

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- 343 Long Round Nose Pliers (VDE)
- 343 Long Flat Nose Pliers (VDE)
- 343 Side Cutters (VDE)
- 344 Wire Stripping Pliers (VDE)
- 344 Telephone Pliers, straight (VDE)
- 344 Telephone Pliers, bent (VDE)
- 344 Waterpump pliers (VDE)
- 345 Cable Cropper (VDE)
- 345 Cable Cutter (VDE)
- 345 Pliers Assortment L (VDE)
- 345 Pliers Assortment XL (VDE)



VDE-Screwdriver.

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- 346 Voltage Testers (VDE)
- 346 2K-Screwdrivers, PH (VDE)



Miscellaneous.

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- 347 Set of screwdrivers (VDE), 6-pcs
- 347 Electrician's Scissors (VDE)
- 347 Cable Knife (VDE)
- 348 Tweezers (VDE)
- 348 Inspection Mirror (VDE)
- 348 Universal soldering iron
- 349 Electrician's Tool Kit in Rollbag (VDE)
- 349 Electrician's Tool Kit in ABS case (VDE)





VDE Tools.

Be a MATADOR.

Working on voltage.

MATADOR VDE-Tools. Safety first.

2K Red, hard turning zone made of special plastic for quick working with low friction.

2K Yellow, soft and anti-slip grip zone made of TPE plastic for secure hold with maximum pressure.

1000 V



High security by unique identification.



International standards for more safety.

In Germany as well as in most of other countries it is the law that works on hot parts are only to be conducted under certain safety regulations and by trained specialists.

The application of especially manufactured tools belongs to that. These have to be according to the international standard **IEC 60900** (identically with EN 60900 for Europe and DIN EN 60900 for Germany).

Therefore all MATADOR insulated tools have the **VDE approval mark** additionally to the DIN EN 60900 mark. This means additional security because every production and testing point is individually examined, certified and regularly supervised by the VDE. For your safety.

Approval process during production.

The approval processes during the running production constituted by the standards are complex and make sure that the requirements of the **DIN EN 60900 standard are fulfilled without exceptions.**

For example tool handles should not disengage themselves during usage or get damaged. Tools will be tested by improving their resistance of heat, cold, shock and impact.

At the end of the production process every tool has to be tested with an AC voltage of 10,000 V AC and voltage of 1.500 V DC.

100% routine test and VDE certificate.

Every model of an insulated tool is put to an acid test regarding mechanical and electrical safety, before it gets a type-approval.

The VDE approval institute withdraws in irregular intervals test samples from the running production or the current stock for intensive random inspections.

The VDE-logo proves that the manufacturer goes beyond his personal responsibility determined by the DIN EN 60900 standard and lets himself and his products **be supervised by independent specialists** of the VDE-institute.

The MATADOR Double Check coating.

All MATADOR soft-plastic insulated safety tools are equipped with the MATADOR Double Check coating.

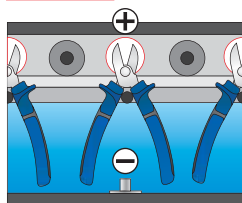
This bi-coloured double insulation offers an additional safety factor, since the yellow alert colour under the red outer layer indicates reliably damages and wear of the insulation and therefore supports the dictated regular inspection.

Whether conventional solutions with 2-component-handles or the complex tools with a double plastic insulation – both processes fulfill the requirements of the standard.

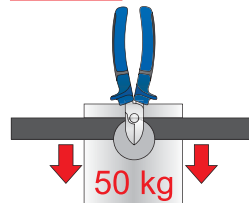
1000 V



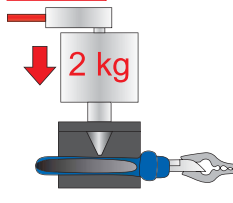
10.000 V



168h / 70°



5.000 V



MATADOR
**Double
Check**



0131 Single Ended Spanners (VDE)

- Angled 15°
- Each piece tested with 10.000 V
- Multilayer dipped insulation
- Standards: DIN / ISO 7446
- Material: Chrome Vanadium
- Surface: Insulated acc. to IEC 60900:2004

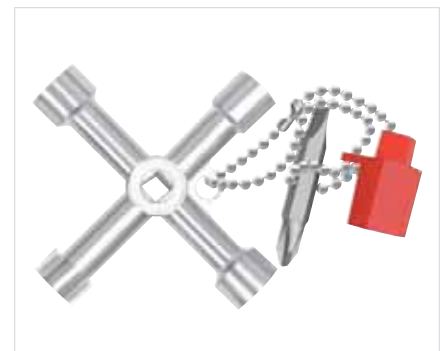
Art. Code	mm	g	
0131 0060	6	24	1
0131 0070	7	25	1
0131 0080	8	26	1
0131 0090	9	38	1
0131 0100	10	42	1
0131 0110	11	48	1
0131 0120	12	58	1
0131 0131	13	68	1
0131 0140	14	84	1
0131 0150	15	88	1
0131 0160	16	114	1
0131 0170	17	120	1
0131 0180	18	145	1
0131 0190	19	160	1
0131 0220	22	237	1
0131 0240	24	300	1
0131 0270	27	380	1
0131 0300	30	485	1
0131 0320	32	590	1



0160 Universal cabinet key

- Plastic adapter with ball chain approx. 20 cm
- Bit with hexagon drive 6.3 mm (1/4")
- Material: Zinc (GD-Zn)

Art. Code	l mm	mm	PH 2	mm	mm	mm	mm	g	
0160 0001	70	1.0	PH 2	5 / 7 / 8	8 / 9	4 - 10	75	10	



0448 Hex Keys (VDE)

- For hexagon screws
- Each piece tested with 10.000 V
- Multilayer dipped insulation
- Material: Chrome Vanadium
- Surface: Insulated acc. to IEC 60900:2004

Art. Code	mm	l mm	g
0448 0030	3	130	20
0448 0040	4	140	30
0448 0050	5	160	50
0448 0060	6	180	80
0448 0080	8	200	140
0448 0100	10	225	230
0448 0120	12	250	245



0449 T-Handles (VDE)



- For hexagon screws
- Each piece tested with 10.000 V
- Multilayer dipped insulation

- Material: Chrome Vanadium
- Surface: Insulated acc. to IEC 60900:2004

Art. Code	mm	g	
0449 0040	4	57	1
0449 0050	5	62	1
0449 0060	6	82	1
0449 0080	8	98	1

4161 Reversible Ratchet (VDE)

1/2 12.5 mm



- With safety lock and quick-release function
- Robust tothing with 36 teeth
- For hand-operated sockets and adapters
- With square drive as per DIN 3120 - C 12.5 / ISO 1174
- Each piece tested with 10.000 V

- Standards: DIN 3122 / ISO 3315
- Material: Chrome Vanadium
- Surface: Insulated acc. to IEC 60900:2004

Art. Code	mm	"	l mm	g	
4161 0001	12,5	1/2	280	537	1

4165 Extension (VDE)

1/2 12.5 mm



- With ball locking device
- For hand-operated sockets and adapters
- With square drive as per DIN 3120 - C 12.5 / ISO 1174
- Each piece tested with 10.000 V

- Material: Chrome Vanadium
- Surface: Insulated acc. to IEC 60900:2004

Art. Code	mm	"	mm	"	l mm	g	
4165 0001	12,5	1/2	12,5	1/2	250	410	1

4175 Sockets (VDE)

SMART DRIVE 6 1/2 12.5 mm



- For metric and inch nuts and bolts
- Each piece tested with 10.000 V
- Multilayer dipped insulation

- Material: Chrome Vanadium
- Surface: Insulated acc. to IEC 60900:2004

Art. Code	mm	"AF	g	
4175 0100	10	3/8	62	10
4175 0110	11	7/16	62	10
4175 0120	12	15/32	62	10
4175 0130	13	1/2	63	10
4175 0140	14	9/16	64	10
4175 0160	16	5/8	72	10
4175 0170	17	11/16	83	10
4175 0180	18	23/32	89	10

Art. Code	mm	"AF	g	
4175 0190	19	3/4	98	10
4175 0200	20/21	13/16	105	10
4175 0220	22	7/8	167	10
4175 0240	24	15/16	167	10
4175 0250	25	1	168	10
4175 0280	28	1.1/8	185	10
4175 0320	32	1.1/4	200	10

0500 Heavy Duty Combination Pliers (VDE)

- For cutting hard and soft wires
- Cutting edges inductively hardened
- Gripping zones for flat and round materials
- With nail and wire holder
- Integrated ring spanner
- Power transmission with optimum leverage for easy and effortless work
- With ergonomically shaped 2-component sleeves
- Standards: DIN ISO 5746
- Material: Tool steel
- Surface: Insulated acc. to IEC 60900:2004

Art. Code	l mm	l"									
Art. Code	l mm	l"			mm	mm	mm	mm	mm	g	
0500 1165	165	6.1/2			4	3.1	2	10	15	200	6
0500 1180	180	7			5.2	3.4	2.2	12	18	255	6
0500 1205	205	8			5.9	3.8	2.5	13	20	285	6



0520 Long Round Nose Pliers (VDE)

- For gripping and bending
- Serrated inside jaws
- With long round jaws
- With ergonomically shaped 2-component sleeves
- Standards: DIN ISO 5745
- Material: Tool steel
- Surface: Insulated acc. to IEC 60900:2004

Art. Code	l mm	l"			
Art. Code	l mm	l"		g	
0520 1160	160	6.1/4		160	6



0525 Long Flat Nose Pliers (VDE)

- Serrated gripping faces
- For holding and bending work
- Standards: DIN / ISO 5745
- Material: High grade tool steel C 45
- Surface: Insulated acc. to IEC 60900:2004

Art. Code	l mm	l"			
Art. Code	l mm	l"		g	
0525 1160	160	6.1/4		185	6



0532 Side Cutters (VDE)

- For cutting hard and soft wires
- Precision cutting edge for the finest wires
- Cutting edges inductively hardened
- Cutting edge hardness approx 62 HRC
- Power transmission with optimum leverage for easy and effortless work
- With ergonomically shaped 2-component sleeves
- Standards: DIN ISO 5749
- Material: Special tool steel
- Surface: Insulated acc. to IEC 60900:2004

Art. Code	l mm	l"							
Art. Code	l mm	l"		mm	mm	mm	mm	g	
0532 1160	160	6.1/4		6	3.5	2	11	210	6
0532 1180	180	7		7	4	2.5	13	265	6



0576 Wire Stripping Pliers (VDE)

2K



- With locking adjustable screw for setting
- Spring loaded
- For wires up to 6mm Ø
- For hard and soft wire
- Material: High grade tool steel C 45
- Surface: Insulated acc. to IEC 60900:2004

Art. Code	l mm	l "	mm	Ø mm	mm ²	g	
0576 1160	160	6.1/4		5	10	185	6

0585 Telephone Pliers, straight (VDE)

2K



- Long, straight flat-round jaws
- With cutting edges and burner hole
- Serrated gripping faces
- For hard and soft wire
- Standards: DIN / ISO 5745
- Material: High grade tool steel C 45
- Surface: Insulated acc. to IEC 60900:2004

Art. Code	l mm	l "	mm		mm	mm	mm	mm	g	
0585 1170	170	6.3/4			2.5	1.6		15	170	6
0585 1205	205	8			3.9	3.2	2.2	18	215	6

0586 Telephone Pliers, bent (VDE)

2K



- Long, 45° angled, flat-round jaws
- With cutting edges and burner hole
- Serrated gripping faces
- For hard and soft wire
- Standards: DIN / ISO 5745
- Material: High grade tool steel C 45
- Surface: Insulated acc. to IEC 60900:2004

Art. Code	l mm	l "	mm		mm	mm	mm	mm	g	
0586 1205	205	8			3.9	3.2	2.2	18	215	6

0556 Waterpump pliers (VDE)

2K



- Form C
- Box joint
- Special safety protection of fingers in every position
- Ideal fulcrum, small effort
- Drop-forged and oil-hardened
- Standards: DIN / ISO 8976
- Material: Chrome-Vanadium
- Surface: Insulated acc. to IEC 60900:2004

Art. Code	l mm	l "	mm	g	
0556 1180	180	7	40	145	
0556 1240	240	9.1/2	50	330	
0556 1400	400	15.3/4	100	1305	

0559 Cable Cropper (VDE)

- With re-adjustable joint
 - Insulation after IEC 60900:2004 regulations
 - Each piece tested with 10.000 V
 - Multilayer dipped insulation
 - For soft wire only, copper and aluminium cable
- Material: Special steel

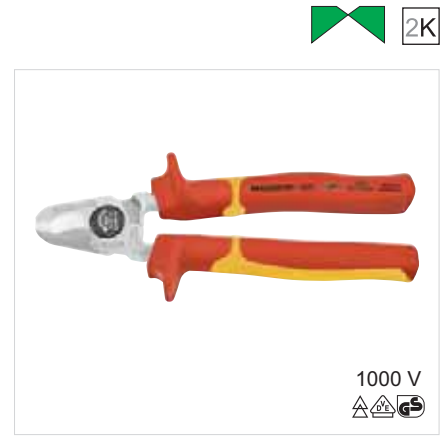
Art. Code	l mm	l "	Ø mm	mm ²	g	
0559 0210	210	8.1/4	20	60	360	6



0829 Cable Cutter (VDE)

- For stripping and cutting of copper and aluminium cables without any burr and up to Ø 16 mm (50 mm²)
 - Re-adjustable screw-joint
- Material: High grade tool steel C 45
 - Surface: Insulated acc. to IEC 60900:2004

Art. Code	l mm	l "	Ø mm	mm ²	g	
0829 1160	160	6.1/4	16	50	225	6



0501 Pliers Assortment L (VDE)

- Pliers Assortment, in practical, transparent polypropylene box: robust packaging, stackable and easy to stock

Art. Code	g	
0501 1301	735	1
0501 1302	735	1

0500 180 mm
 0532 180 mm
 0585 205 mm
 0500 180 mm
 0532 180 mm
 0586 205 mm



0501 Pliers Assortment XL (VDE)

- Pliers Assortment, in practical, transparent polypropylene box: robust packaging, stackable and easy to stock

Art. Code	g	
0501 1401	1065	1
0501 1402	1065	1

0500 180 mm
 0532 180 mm
 0585 205 mm
 0556 240 mm
 0500 180 mm
 0532 180 mm
 0586 205 mm
 0556 240 mm

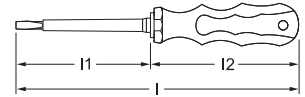


0616 2K-Screwdrivers, slotted (VDE)



- Quality blades made of high-alloy, hardened special steel
- Blades with black finish with directly sprayed-conical blade insulation
- 2-component hole issue Signal-colour: red-yellow
- With hanging hole

- Material: Molybdän-Vanadium / Chrome Silizium-Vanadium / Chrome Vanadium
- Surface: Insulated acc. to IEC 60900:2004



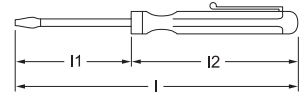
Art. Code	mm	mm	l1 mm	l2 mm	l mm	g	
0616 0425	0,4	2,5	75	85	160	40	10
0616 0635	0,6	3,5	100	95	195	47	10
0616 0840	0,8	4	100	105	205	63	10
0616 1055	1,0	5,5	125	105	230	96	10
0616 1265	1,2	6,5	150	120	270	119	10
0616 1280	1,2	8	175	120	295	182	5
0616 1610	1,6	10	200	120	320	248	5

0635 Voltage Testers (VDE)



- Up to 230 V
- With metal clip
- Transparent handle

- Standards: VDE 0680
- Material blade: High grade tool steel
- Surface blade: Nickel plated and insulated



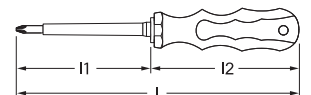
Art. Code	mm	mm	l1 mm	l2 mm	l mm	g	
0635 0530	0,5	3,0	65	75	140	20	10
0635 0635	0,6	3,5	100	95	195	40	10

0656 2K-Screwdrivers, PH (VDE)



- Classical workshop Screwdrivers, for cross slot screws Phillips-Recess
- With 2-component handle with hard quick turning and soft power zone
- With hanging hole

- Standards: DIN ISO 8764 / tip DIN ISO 8764-1 PH
- Material blade: Chrome Vanadium black tip
- Surface: Insulated acc. to IEC 60900:2004



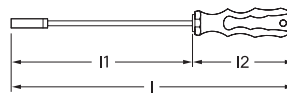
Art. Code		mm	l1 mm	l2 mm	l mm	g	
0656 0000	PH 0	5	60	90	150	43	10
0656 0010	PH 1	5	80	100	180	68	10
0656 0020	PH 2	6	100	110	210	98	10
0656 0030	PH 3	8	150	120	270	167	10

0670 Hexagon Nut Spinners (VDE)

- Ergonomically handle for easy working and maximum torque transmission
- Insulated according to IEC 60900:2004
- Each piece tested with 10.000 V

- Standards:

DIN / ISO 7445



Art. Code	mm	l1 mm	l2 mm	l mm	g	
0670 1050	5	110	100	210	58	12
0670 1060	6	110	100	210	66	12
0670 1070	7	115	110	225	94	12
0670 1080	8	115	110	225	96	6
0670 1090	9	115	110	225	98	6
0670 1100	10	115	110	225	104	6
0670 1110	11	115	120	235	150	6
0670 1120	12	115	120	235	160	6
0670 1130	13	115	120	235	165	6
0670 1140	14	115	120	235	165	6
0670 1150	15	115	120	235	170	6
0670 1160	16	115	120	235	170	6
0670 1170	17	115	120	235	175	6



0681 Set of screwdrivers (VDE), 6-pcs

- VDE-Screwdriver assortment in display box
- With dual compound handles
- Insulated according to IEC 60900:2004

Art. Code	g	
0681 1001	735	1

0616 2.5 x 75 - 3.5 x 100 - 5.5 x 125 mm
 0635 0.5 x 3.0 mm
 0656 PH 1 - PH 2



0744 Electrician's Scissors (VDE)

- Microserrated blade

- Material:

Stainless steel,
hardness 60 HRC

Art. Code	mm	g	
0744 1001	140	90	1



0826 Cable Knife (VDE)

- With straight, hardened blade
- Blade made from stainless steel
- Each piece tested with 10.000 V

- Surface:

Insulated acc. to
IEC 60900:2004

Art. Code	l mm	l1 mm	g	
0826 0001	180	65	65	5

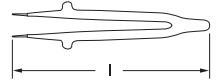


0875 Tweezers (VDE)



- Each piece tested with 10.000 V
- Multilayer dipped insulation

- Material: Special steel, nickel plated
- Surface: Insulated acc. to IEC 60900:2004



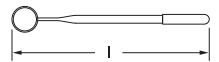
Art. Code	mm	Form	g	
0875 0001	145	straight	40	10
0875 0002	150	bent	40	10

0876 Inspection Mirror (VDE)



- Magnified
- Each piece tested with 10.000 V
- Multilayer dipped insulation

- Surface: Insulated acc. to IEC 60900:2004

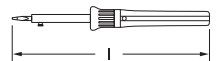


Art. Code	mm	g	
0876 1001	170	32	10

0879 Universal soldering iron



- Tried and tested universal soldering iron with 40 W for increased heat demand
- Versatile for soldering tasks in the areas of trade / service and Hobby
- Equipped with professional long-life tip



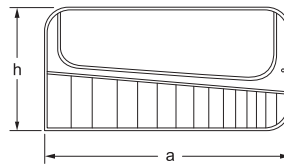
Art. Code	g	
0879 0001	400	1



8110 Electrician's Tool Kit in Rollbag (VDE)

15

- 15 pcs. tool assortment for working on electrical systems
- In practical faux leather roll bag with 15 compartments



1000 V

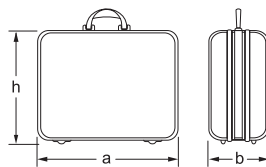
Art. Code	h mm	a mm	g
8110 0001	320	680	340
8110 9530	320	680	1700

Content	0131	0500	0532	0576	0559	0585	0616	0635	0826
	10 - 13 - 14 - 17 - 19 mm	180 mm	160 mm	160 mm	190 mm	180 mm	0,4 x 2,5 x 75 - 0,8 x 4,0 x 100 - 1,2 x 6,5 x 150 mm	0,5 x 3,0 mm	

8130 Electrician's Tool Kit in ABS case (VDE)

30

- 30 pcs. tool assortment for working on electrical systems
- In solid tool case made of strong and resistant ABS material with removable tool panels in lid and bottom



1000 V

Art. Code	h mm	a mm	b mm	g
8130 0001	345	455	160	5700
8130 9531				7600

Content	0131	0160	0500	0532	0576	0559	0585	0616	0635	0744	0826	0875	4161	4165	4175
	10 - 13 - 14 - 17 - 19 - 22 mm		180 mm	160 mm	160 mm	190 mm	180 mm	0,4 x 2,5 x 75 - 0,8 x 4,0 x 100 - 1,2 x 6,5 x 150 mm	0,5 x 3,0 mm						10 - 11 - 12 - 13 - 14 - 17 - 19 - 22 - 24 mm

- Variable inserts for further separation

- 3-digit combination lock

- Two lockable clip locks

- Circumferential robust aluminium frame with shock edge protection

Workshop Equipment.

Page Article Group

Trolleys.

357 Workshop Trolley QUADRO
357 Tool Chest QUADRO+
357 Dividers QUADRO
359 Tool Chest RATIO
359 Workshop Trolley RATIO
362 Workshop Trolley VARIO

Accessories VARIO.

363 Paper Roll Holder
363 Document Holder
363 Side Cabinet
363 Waste Bin
363 Laptop Holder
363 Locking Bar Set
363 Tin Holder
363 Vertical Tool Panel
363 Multiplex Worktop
364 Dividers
364 Cable Drum
364 Storage Shelf
364 Hooks Assortment
364 Anti-slip Mat
364 Accessories Kit

General Accessories.

365 Single Hook
365 Round Holder
365 Screwdrivers Holder
365 Socket Holder
365 Waste Bin
365 Double Hook
365 Small Parts Holder
365 Drill Holder
365 Cable Holder
365 Tin Holder
365 Pliers Holder
365 Wrench Holder
365 Storage Bin Holder
365 Paper Roll Holder
365 Document Holder
366 Spare Parts for trolleys

Moduls for QUADRO.

370 Double Open Ended Spanners
370 Combination Ratchet Spanners
370 Combination Spanners, angled
370 Spanners XL
371 Double Ended Ring Spanners XL
371 Socket Set 6.3 (1/4) - 12.5(1/2)
372 Screwdriver Sockets
372 Pliers
373 2K-Screwdrivers
374 Mechanic's Tools
374 Mechanic's Tools XL
374 Empty Modules

Page Article Group

Moduls for RATIO/VARIO.

375 Double Open Ended Spanners
375 Ring Ratchet Spanners
376 Combination Spanners, angled
376 Combination Spanners
377 Double Ended Ring Spanners
377 Spanners XL
377 Pipe Head Spanners
378 Spanners Supplement
378 Nut Drivers with T-Handle
379 Socket Sets
380 Tools Set for Spark Plugs
381 Screwdriver Sockets
382 Socket Set 6.3 (1/4) - 12.5 (1/2)
382 Socket Set XL
383 Impact Sockets
383 Pneumatic Tools
384 Pliers
384 Circlip Pliers
385 Screwdrivers
386 Precision Tools Set
386 T-Handle Wrenches
386 Files
387 Mechanic's Tools Basic
387 Cutting Tools
388 Measuring instruments
388 Torque tools 9 x 12
389 Empty Modules
389 MTS Self Cutting Module

Tool assortments.

390 QUADRO „Basic“
391 QUADRO „Automotive“
392 QUADRO „Truck“
393 QUADRO „Champion“
394 RATIO „Basic“
395 RATIO „Automotive XL“
396 RATIO „Truck“
397 RATIO „Industrial“
398 VARIO „Basic“
399 VARIO „Allround“
400 VARIO „Automotive“
401 VARIO „Automotive XL“
402 VARIO „Truck“
403 VARIO „Industrial“
404 VARIO „Industrial XL“

Workshop Equipment.

405 Tool Cabinet
405 Perforated Panels
407 Workbenches
407 Workbenches
408 Workbench Accessories
411 Heavy duty Workbenches
411 Mobile Workbench





Workshop Equipment.

Be a MATADOR.

Three basic models - and almost endless varieties.

All good things come in threes.
The MATADOR workshop trolleys.

Q QUADRO



R RATIO



The basic class.
For price-conscious professionals.

W 610 mm x D 450 mm x H 950 mm.

The premium class.
Big and sturdy.

W 795 mm x D 470 mm x H 1000 mm.



V VARIO

The performance class.
Versatile and flexible.

W 790 mm x D 580 mm x H 940 mm.



Three models - and almost endless varieties.

All good things come in threes. The MATADOR workshop trolleys.

Q QUADRO



R RATIO



V VARIO



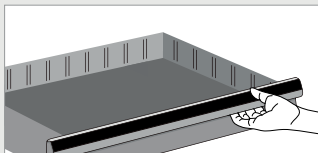
QUADRO. 6 drawers.

Our workshop trolley **QUADRO** is the **ideal starter model** to enter the professional league. Its high functionality and its compact dimensions are based on a stable steel sheet construction which is torsion resistant and thus very resilient.

6 drawers with a height of 4x 80 mm, 1 x 160 mm and 1 x 240 mm are perfectly good to store your comprehensive workshop equipment.

With **ball bearing precision slides**, fully extendable drawers, individual locking, etc. **QUADRO** provides features that are rare in this category of trolleys.

Thanks to its high-grade powder coating in silver-aluminium / black color (RAL 9006 / 9005) **QUADRO** is a real "eye-catcher".



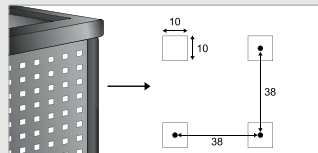
→ Standard Single lock the drawers on all models

RATIO. 7 drawers.

MATADOR's new workshop trolley **RATIO** is the premium solution for all users who need a bigger trolley than **QUADRO** who don't need a **VARIO** premium trolley.

Generous dimensions, high capacity and loadability in daily use, easily rollable and upgradeable with accessories of our comprehensive range thanks to square perforation on the side panels - that's **RATIO**.

The **RATIO** is designed for **heavy industrial applications**, its high-performance drawer rails have been thoroughly tested on 40.000 opening cycles.



→ Standard square perforation for wide range of accessories

VARIO. 6, 7 or 8 drawers.

MATADOR's top model is designed to meet the demanding workaday tasks in workshops and maintenance areas. **VARIO** is not only a workshop trolley, **VARIO is a concept**.

Made of **1.75 mm top quality steel sheet**, produced with utmost precision on fully automatic CNC press brakes, CNC laser cutting machines and state-of-the-art chipping units, assembled by robot welders and finally powder coated in a modern painting plant **VARIO** meets top level quality standards.

VARIO is available in **three standard versions**, either with **6, 7 or 8 drawers** and painted in white aluminium (RAL 9006) or black (RAL 9005).

From an order quantity of 4 trolleys per color all other RAL colors are available on demand.

By the way: You will receive **VARIO** fully assembled and packed on a pallet - simply roll down and start working.

Our service to save your time.

Quality starts with the sheet thickness.

As with cars the torsion resistance of a workshop trolley is mainly determined by the thickness of the metal sheet.

As the sheet thickness cannot be seen at first glance many sellers save on the material and use only steel sheets with a thickness of 0.7-1.0 mm. The joy of the low price is only short-lived as loadability and lifetime are only moderate.

By contrast the **MATADOR** workshop trolley **VARIO** is made with a **sheet thickness of even 1.75 mm**, this is almost double the thickness as other models. Thus the **VARIO** reaches a **very high level of stability** and torsion resistance which you cannot only feel but even hear. No more shaking when closing the drawers, no creaking chassis when rolling - test yourself.




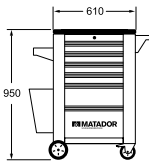
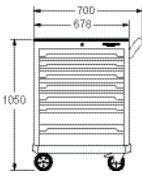
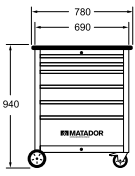
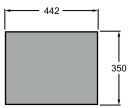

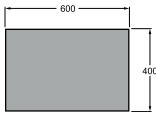




Trust the inner values and enjoy solid industrial quality.

Concentration on the essentials.

All at a glance. Workshop trolleys with 6, 7 or 8 drawers.

Compact dimensions or big size. Wide or narrow. With 6, 7 or 8 drawers. With extra broad chassis. In silver-aluminium/black, black, red, blue, green or any other color of your choice. With accessories. Empty or fully equipped with tools.

MATADOR workshop trolley range at a glance.

Short Description	Unit	Q QUADRO	R RATIO	V VARIO		
Modell						
External dimensions	mm					
Internal dimensions of the drawers	mm					
Number of drawers		6	7	6	7	8
Individual locking of the drawers		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
„One-at-a-time“ loading system		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Height of drawers	mm	4 x 80 1 x 160 1 x 240	5 x 75 2 x 154	2 x 50 3 x 100 1 x 200	3 x 50 3 x 100 1 x 150	5 x 50 2 x 100 1 x 150
Capacity / drawer	kg	35	45	35	35	35
Total load capacity	kg	240	500	750	750	750
Perforation	mm	10 x 38	10 x 38	10 x 38	10 x 38	10 x 38
Empty Weight	kg	55	65	62,5	67,5	72,5
Art. Code		8162 0020	8163 0020	8164 0001 8164 0009 8164 0008 8164 0002 8164 0003 8164 0004 8164 0005 8164 0006	8164 0011 8164 0019 8164 0018 8164 0012 8164 0013 8164 0014 8164 0015 8164 0016	8164 0021 8164 0029 8164 0028 8164 0022 8164 0023 8164 0024 8164 0025 8164 0026
Packing unit		Outer carton: B 800 x T 600 x H 1100 mm Gross weight / pc 60 kg 1 pc / pallet	Outer carton: B 780 x T 530 x H 930 mm Gross weight / pc 70 kg 1 pc / pallet	Outer carton: B 870 x T 750 x H 1080 mm Gross weight / pc 68 / 73 / 78 kg 1 pc / pallet		

The discovery class for professionals.

MATADOR QUADRO. Compact dimensions with 6 drawers.

Robust ABS worktop with compartments for small parts and tin holders.



Extra stable handle.

Optional:
Holder for
paper rolls.

6 drawers
for tools
and accessories.



Drawers fully extendable
(real 100%).

Square perforation
all around for
accessories.

Single-locked drawers
(no unintended opening
when in motion).



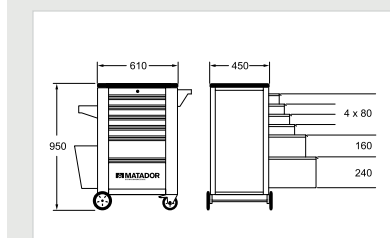
Optional:
waste box.

High stability
thanks to extra broad
chassis.

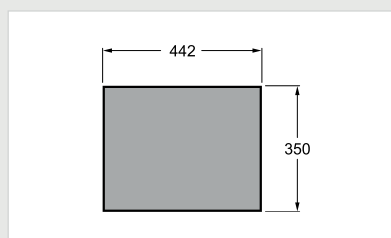
Rounded edges for
protection against injuries.

2 large ball-bearing castors.

2 flexible castors with brake.



External dimensions



Internal dimensions of drawers



Space-saving, lots of storage space inside and very agile.

Or 10 drawers including functional top chest.



8162 Workshop Trolley QUADRO

- Stable steel sheet construction
- ABS worktop with practical compartments for small parts and tin holders
- Premium powder coating in silver-aluminium / black (RAL 9006 / 9005)
- Total load capacity 240 kg
- With 6 drawers: 4 x 80 mm, 1 x 160 mm, 1 x 240 mm, all drawers 100% extendable, loadable with 35 kg each
- Single-locked drawers
- Ball-bearing precision slides
- Side and back panels with square perforation for assembly of accessories
- Solid rubber castors including 2 ball-bearing fixed castors and 2 mobile castors with fixing brake
- Stable, extremely durable handle
- Central locking with cylinder lock



Art. Code	kg	
8162 0020	55	1

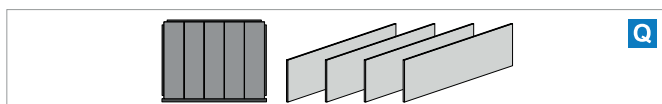
8162 Tool Chest QUADRO+

- For assembly on top of the QUADRO trolley
- Stable steel sheet construction
- ABS worktop with practical compartments
- Premium powder coating in silver-aluminium / black (RAL 9006 / 9005)
- With 4 drawers: 4 x 80 mm, all drawers 100% extendable, loadable with 35 kg each
- Single-locked drawers, individually partitionable
- Back panel with square perforation



Art. Code	kg	
8162 0021	29	1

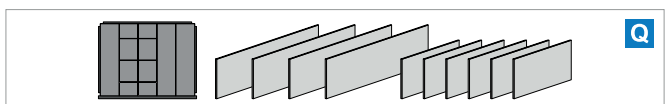
8162 Dividers QUADRO



- Push-in type
- 4 long sheets for up to 5 compartments

Art. Code	g	
8162 0230	250	1

8162 Dividers QUADRO



- Push-in type
- 4 long sheets and 6 separation sheets for 11 compartments

Art. Code	L mm	B mm	g	
8162 0231	348	60	175	1

The premium class.

MATADOR RATIO. 7 drawers. For tools and more.

Durable ABS worktop with several compartments for small parts and holders for screwdrivers.



Ergonomic handle for convenient pushing, pulling and turning even when fully loaded.

Ball-bearing high-performance slides.

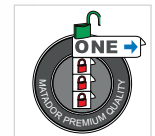
Both side panels with square perforation for assembly of accessories.

Fully extendable drawers (real 100%).



3-level locking system: central locking, single-locked drawers, mechanical interlock („one at-a-time“ locking system).

Rounded edges and integrated corner damage protection.

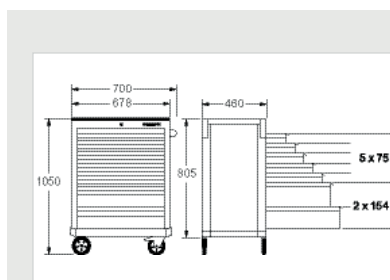


Premium powder coating in silver-aluminium / black (RAL 9006 / 9005).

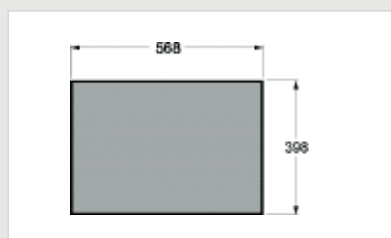


2 large ball-bearing castors.

2 flexible castors with brake.



External dimensions



Internal dimensions of drawers



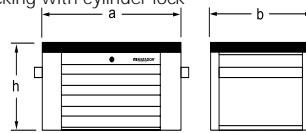
The perfect workstation.

No need to be modest in terms of space.



8163 Tool Chest RATIO +6

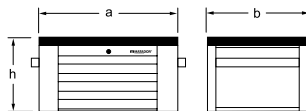
- Stable steel sheet construction
- Premium powder coating in silver-aluminium / black (RAL 9006 / 9005)
- With 6 drawers: 3 x 75 mm narrow + 3 x 75 mm wide, all drawers 100% extendable, loadable with 45 kg each
- Single-locked drawers and „one-at-a-time“ - locking system
- Ball-bearing precision slides
- Side and back panels with square perforation for assembly of accessories
- Stable, extremely durable handle
- Central locking with cylinder lock



Art. Code	h mm	a mm	b mm	kg	
8163 0018	451	720	470	29	1

8163 Tool Chest RATIO +3

- Stable steel sheet construction
- Premium powder coating in silver-aluminium / black (RAL 9006 / 9005)
- With 3 drawers: 3 x 75 mm, all drawers 100% extendable, loadable with 45 kg each
- Single-locked drawers and „one-at-a-time“ - locking system
- Ball-bearing precision slides
- Side and back panels with square perforation for assembly of accessories
- Stable, extremely durable handle
- Central locking with cylinder lock



Art. Code	h mm	a mm	b mm	kg	
8163 0019	365	720	470	22	1

8163 Workshop Trolley RATIO

- Stable steel sheet construction
- ABS worktop with practical compartments for small parts
- Premium powder coating in silver-aluminium / black (RAL 9006 / 9005)
- Total load capacity 500 kg
- With 7 drawers: 5 x 75 mm, 2 x 154 mm, all drawers 100% extendable, loadable with 45 kg each
- Single-locked drawers and „one-at-a-time“ - locking system
- Ball-bearing precision slides
- Side and back panels with square perforation for assembly of accessories
- Solid rubber castors including 2 ball-bearing fixed castors and 2 mobile castors with fixing brake
- Stable, extremely durable handle
- Central locking with cylinder lock



Art. Code	h mm	a mm	b mm	kg	
8163 0020	1000	720	470	65	1

The performance class. Variable, flexible and of an outstanding quality.

MATADOR VARIO. Pleasure before business.

2 standard colors or individual RAL color on demand from a quantity of 4 pcs. per color.

Body made of high-quality steel sheet 1.75 mm, reinforced frame.

750 kg

Optional: tray, paper roll holder and waste bin.

Optional: laptop holder or variable working platform.

Optional: lockable side cabinet.

6, 7 or 8 drawers, 100% fully extendable and with aluminium handle strips that can be labelled.

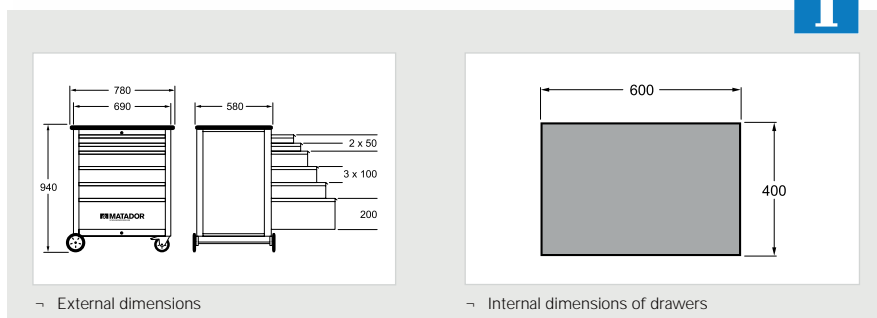
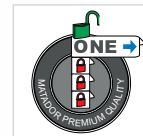
35 kg

4-level locking system: central locking, single-locked drawers, mechanical interlock („one-at-a-time“ locking system) and optional locking bar.

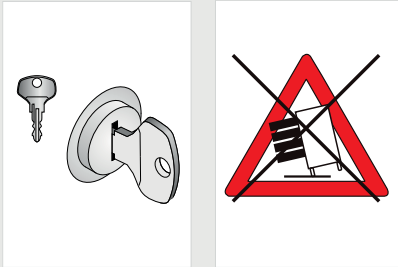
Side and back panels with square perforation.

All-round impact protection and heel protection as well as integrated corner fenders.

2 extra big special castors (150 mm) and 2 flexible castors with fixing brake.

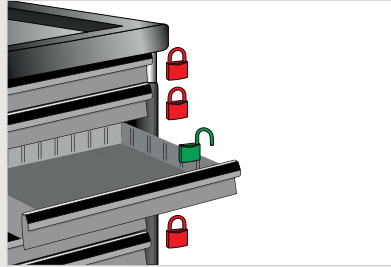


✓ Quality locking system.



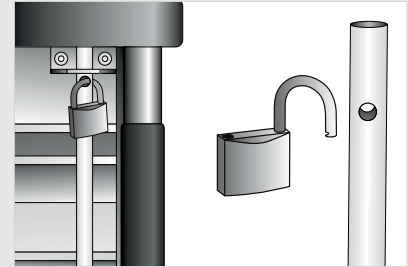
- Central locking with top-quality cylinder lock and single-locked drawers, no unintended opening

✓ One drawer at a time.



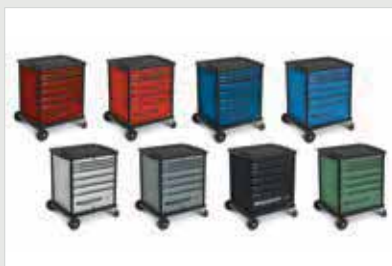
- Mechanical interlock of the drawers so that only one can be opened at a time (can be suspended)

✓ Theft protection.



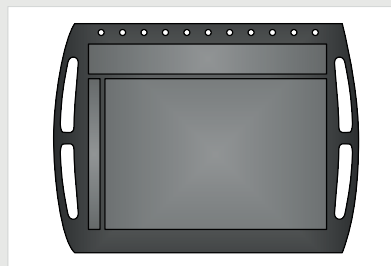
- Optional locking bar incl. padlock serves as additional protection of the trolley against theft

✓ Individual colors.



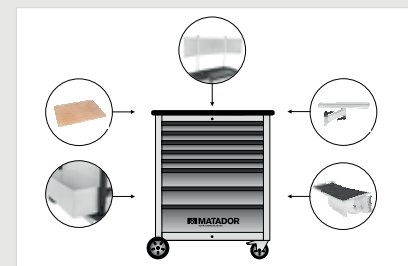
- 2 standard colors, individual colors on demand from a quantity of 4 trolleys per color (based on RAL color scale)

✓ Robust ABS worktop.



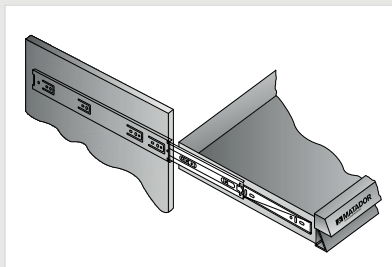
- ABS worktop with compartments for small parts, screwdriver holders and handles on both sides

✓ Big range of accessories.



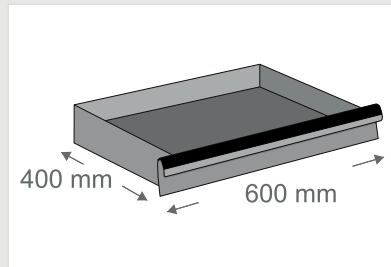
- All-round square perforation for assembly of accessories, make your VARIO a real mobile workstation

✓ Precision slides.



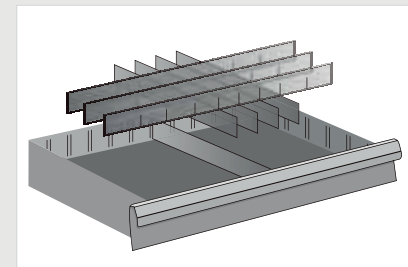
- Quality slides: ball-bearing supported, fully extendable, highly loadable and especially durable

✓ XL drawer volume.



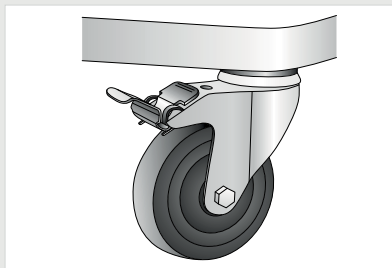
- More drawer volume than any other current model for plenty of storage space

✓ Dividers.



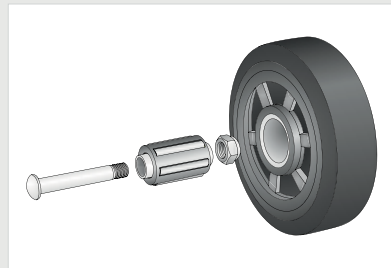
- Optional length and crosswise dividers for individual drawer partition.

✓ Fixing brake.



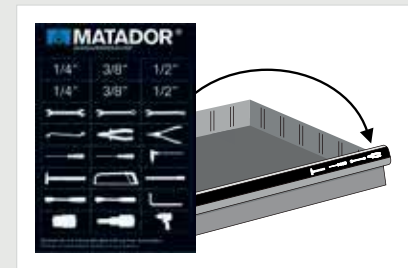
- Stable fixing brakes at the mobile castors for perfect stand

✓ High-performance castors.



- Ball-bearing high-performance castors for convenient rolling and high loadability

✓ Labels.















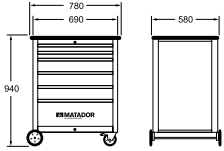
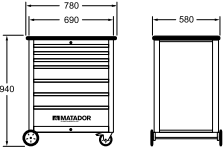
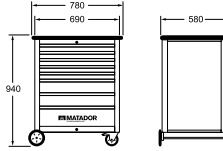
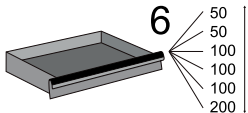
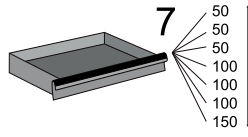
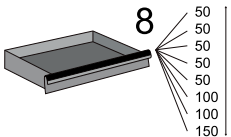


- Individual drawer labelling with pictogram labels for quick and easy orientation











































Perfection in detail.

8164 Workshop Trolley VARIO

From 1 trolley / order:

Short Description	VARIO with 6 drawers	VARIO with 7 drawers	VARIO with 8 drawers
	<ul style="list-style-type: none"> - 6 drawers - Color silver-aluminium RAL 9006 	<ul style="list-style-type: none"> - 7 drawers - Color silver-aluminium RAL 9006 	<ul style="list-style-type: none"> - 8 drawers - Color silver-aluminium RAL 9006
	 Art. Code 8164 0001  kg 62.5	 Art. Code 8164 0011  kg 67.5	 Art. Code 8164 0021  kg 72.5
	<ul style="list-style-type: none"> - 6 drawers - Color jet black RAL 9005 	<ul style="list-style-type: none"> - 7 drawers - Color jet black RAL 9005 	<ul style="list-style-type: none"> - 8 drawers - Color jet black RAL 9005
	 Art. Code 8164 0009  kg 62.5	 Art. Code 8164 0019  kg 67.5	 Art. Code 8164 0029  kg 72.5
Dimensions in mm			
Allocation of drawers, height in mm			

From 4 trolleys / order, for example:

Short Description	VARIO with 6 drawers	VARIO with 7 drawers	VARIO with 8 drawers
	<ul style="list-style-type: none"> - 6 drawers - Color ruby red RAL 3003 	<ul style="list-style-type: none"> - 7 drawers - Color ruby red RAL 3003 	<ul style="list-style-type: none"> - 8 drawers - Color ruby red RAL 3003
	 Art. Code 8164 0002  kg 62.5	 Art. Code 8164 0012  kg 67.5	 Art. Code 8164 0022  kg 72.5
	<ul style="list-style-type: none"> - 6 drawers - Color traffic red RAL 3020 	<ul style="list-style-type: none"> - 7 drawers - Color traffic red RAL 3020 	<ul style="list-style-type: none"> - 8 drawers - Color traffic red RAL 3020
	 Art. Code 8164 0003  kg 62.5	 Art. Code 8164 0013  kg 67.5	 Art. Code 8164 0023  kg 72.5
	<ul style="list-style-type: none"> - 6 drawers - Color gentian blue RAL 5010 	<ul style="list-style-type: none"> - 7 drawers - Color gentian blue RAL 5010 	<ul style="list-style-type: none"> - 8 drawers - Color gentian blue RAL 5010
	 Art. Code 8164 0004  kg 62.5	 Art. Code 8164 0014  kg 67.5	 Art. Code 8164 0024  kg 72.5
	<ul style="list-style-type: none"> - 6 drawers - Color sky blue RAL 5015 	<ul style="list-style-type: none"> - 7 drawers - Color sky blue RAL 5015 	<ul style="list-style-type: none"> - 8 drawers - Color sky blue RAL 5015
	 Art. Code 8164 0005  kg 62.5	 Art. Code 8164 0015  kg 67.5	 Art. Code 8164 0025  kg 72.5
	<ul style="list-style-type: none"> - 6 drawers - Color reseda green RAL 6011 	<ul style="list-style-type: none"> - 7 drawers - Color reseda green RAL 6011 	<ul style="list-style-type: none"> - 8 drawers - Color reseda green RAL 6011
	 Art. Code 8164 0006  kg 62.5	 Art. Code 8164 0016  kg 67.5	 Art. Code 8164 0026  kg 72.5
	<ul style="list-style-type: none"> - 6 drawers - Color window grey RAL 7040 	<ul style="list-style-type: none"> - 7 drawers - Color window grey RAL 7040 	<ul style="list-style-type: none"> - 8 drawers - Color window grey RAL 7040
	 Art. Code 8164 0008  kg 62.5	 Art. Code 8164 0018  kg 67.5	 Art. Code 8164 0028  kg 72.5

Make the best of your VARIO.
VARIO Tuning.

Special accessories for assembly onto the side panels of the VARIO trolley. Not suitable for QUADRO or RATIO (unless stated otherwise).



8164 Paper Roll Holder



- With tray
- With brackets, fit into the square perforation
- Delivery without paper roll

Art. Code	L mm	B mm		g	
8164 0201	535	200		1650	1

8164 Waste Bin



- High capacity
- Also suitable as an additional compartment, e.g. for small parts

Art. Code	L mm	B mm	H mm	g	
8164 0202	475	170	150	1200	1

8164 Tin Holder



- Capacity up to 5 tins

Art. Code	L mm	B mm	H mm	g	
8164 0203	480	90	85	1110	1

8164 Document Holder



- Ideal for drawings
- Suitable for DIN A4-sized folders
- With brackets, fit into the square perforation

Art. Code	L mm	B mm	H mm	g	
8164 0204	480	45	190	1100	1

8164 Laptop Holder



- Ideal as additional worktop/storage place
- With quick-release levers and double quick fixation
- Mountable to each of the 4 VARIO pillars

Art. Code	L mm	B mm		g	
8164 0205	420	300		4500	1

8164 Vertical Tool Panel



- With 2 side panels
- With square perforation
- Side panels: W 310 x H 300 mm
- Mountable to the 2 VARIO back pillars

Art. Code	L mm	H mm		g	
8164 0206	1250	300		4500	1

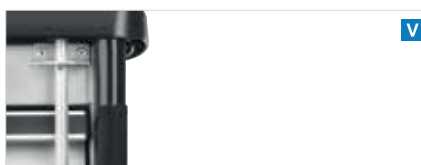
8164 Side Cabinet



- For safe storage of valuable tools
- With square perforation and lock
- With assembly kit

Art. Code	L mm	B mm	T mm	g	
8164 0207	660	490	45	8500	1

8164 Locking Bar Set



- Perfect theft protection
- Additional locking of drawers
- Lockable with padlock (included)

Art. Code		g	
8164 0208		750	1

8164 Multiplex Worktop



- To insert into the ABS worktop

Art. Code	L mm	B mm	H mm	g	
8164 0209	570	380	15	2300	1

Make the most of your tool trolley.

Functional helpers. High practical effect, low costs.



8164 Storage Shelf



- Provide additional storage space
- Can be inserted into the bottom drawer to store flat tools, easily sliding
- With anti-slip mat

Art. Code	L mm	B mm	g	
8164 0210	600	200	1900	1

8164 Anti-slip Mat



- Ideal for each drawer without dividers / partition system

Art. Code	L mm	B mm	H mm	g	
8164 0211	570	380	3	20	1

8164 Dividers 12 x 100



- For drawer with a height of 100 mm
- For 12 compartments

Art. Code	H mm	g	
8164 0230	100	200	1

8164 Dividers 12 x 150



- For drawer with a height of 150 mm
- For 12 compartments

Art. Code	H mm	g	
8164 0231	150	250	1

8164 Dividers 12 x 200



- For drawer with a height of 200 mm
- For 12 compartments

Art. Code	H mm	g	
8164 0232	200	300	1

8164 Dividers 8 x 100



- For drawer with a height of 100 mm
- For 8 compartments

Art. Code	H mm	g	
8164 0233	100	175	1

8164 Dividers 8 x 150



- For drawer with a height of 150 mm
- For 8 compartments

Art. Code	H mm	g	
8164 0234	150	225	1

8164 Dividers 8 x 200



- For drawer with a height of 200 mm
- For 8 compartments

Art. Code	H mm	g	
8164 0235	200	275	1

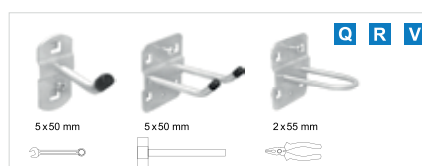
8141 Cable Drum



- 10 m cable, with overvoltage protection
- Fits into the square perforation

Art. Code	m	g	
8141 0001	10	2040	1

8141 Hooks Assortment



- All important hooks in one assortment (12 pcs)

Art. Code	g	
8141 0236	200	1

8141 Accessories Kit

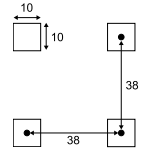


- Waste bin, paper roll holder and cable drum in one set

Art. Code	g	
8141 0238	3540	1

Suitable for panels with square perforation 10 x 38 mm.

General Accessories. For workshop trolleys, workbenches and perforated panels.



8141 Single Hook



Art. Code	mm	g	
8141 0100	50	40	1
8141 0101	150	60	1

8141 Double Hook



Art. Code	mm	g	
8141 0110	50	80	1
8141 0111	150	180	1

8141 Pliers Holder



Art. Code	mm	g	
8141 0115	55 x 70	66	1

8141 Round Holder



Art. Code	mm	g	
8141 0120	65 x 25	60	1

8141 Small Parts Holder



Art. Code	mm	g	
8141 0130	150 x 55	200	1

8141 Wrench Holder



Art. Code	mm	g	
8141 0140	8x	400	1

8141 Screwdrivers Holder



Art. Code	mm	g	
8141 0150	6x	200	1

8141 Drill Holder



Art. Code	mm	g	
8141 0160	14x	200	1

8141 Storage Bin Holder



- For Size 7, Delivery without storage box

Art. Code	mm	g	
8141 0170	Nr. 7	50	1

8141 Socket Holder



Art. Code	mm	g	
8141 0180	9x	500	1

8141 Cable Holder



Art. Code	mm	g	
8141 0190	150	200	1

8141 Paper Roll Holder



Art. Code	mm	g	
8141 0200		500	1

8141 Waste Bin



Art. Code	mm	g	
8141 0210	300 x 290	1000	1

8141 Tin Holder



Art. Code	mm	g	
8141 0220	300 x 70	350	1

8141 Document Holder



Art. Code	mm	g	
8141 0230	310 x 220	200	1

Quick help for small problems.

Spare parts for workshop trolleys.



8162 Spare Parts for QUADRO



Art. Code	QUADRO	g	
8162 0290	Spare lock with 2 keys	250	1
8162 0291	Spare handle with assembly material	700	1
8162 0292	Spare telescopic slides for drawers, ball-bearing (2 pcs)	150	1
8162 0293	Spare castor wheel with brake	500	1
8162 0294	Spare wheel, fixed	750	1

8163 Spare Parts for RATIO



Art. Code	RATIO	g	
8163 0290	Spare lock with 2 keys	250	1
8163 0291	Spare handle with assembly material	700	1
8163 0292	Spare telescopic slides for drawers, ball-bearing (2 pcs)	150	1
8163 0293	Spare castor wheel with brake	500	1
8163 0294	Spare wheel, fixed	600	1

8164 Spare Parts for VARIO



Art. Code	VARIO	g	
8164 0290	Spare lock with 2 keys	250	1
8164 0291	Spare worktop with assembly material	1500	1
8164 0292	Spare telescopic slides for drawers, ball-bearing (2 pcs)	150	1
8164 0293	Spare castor wheel with brake	500	1
8164 0294	Spare wheel, fixed	650	1
8164 0295	Spare corner protector	20	1

Soft foam inlays with black and blue tools contours.

MTS modules for workshop trolleys. Perfect organization. See what is missing.



MTS MATADOR TOOL SYSTEM.



MTS - saves costs, time and nerves.

Already more than 10 years ago MATADOR supplied the first workshop trolleys with MTS inlays.

Today it is a standard but back then it was a real innovation: "MATADOR Tool System" MTS.



- No organization, no control.

See what is missing.

MTS are black and blue inlays made of 2-component soft foam into which tools can be embedded **vibration-proof**:

Missing tools can quickly be recognized which is **budget-friendly** and **cost-saving**

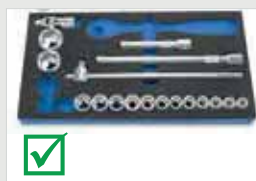


- Better organization but no indication of missing tools.

Better organization and maximum cleanliness.

No more searching, **perfect order**. You'd better spend your time with more important activities.

And for maximum cleanliness after the work is done: Simply clean under running water, dry - ready.



- Perfect organization, see what's missing.

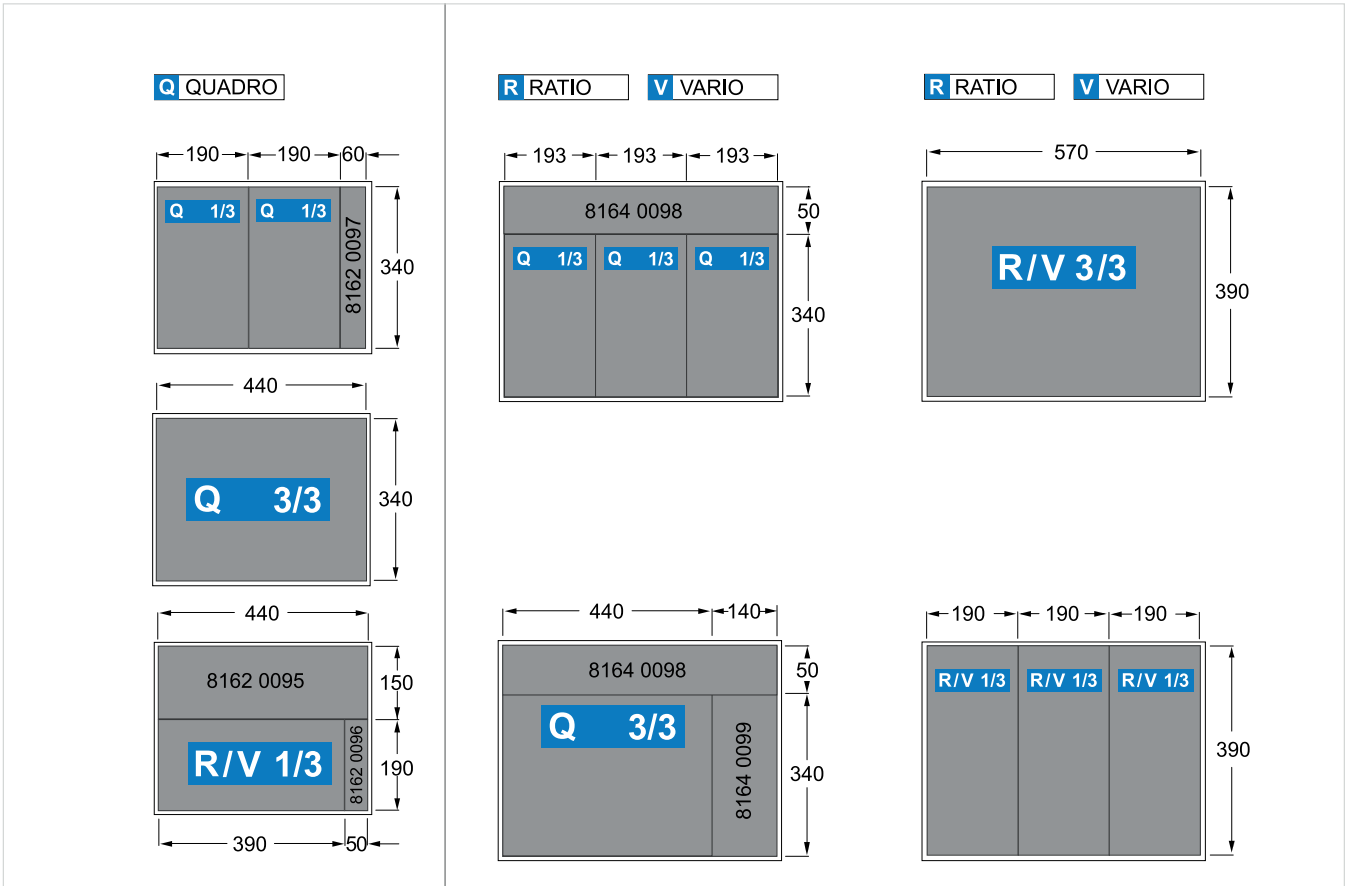
MTS - all benefits at a glance.

- Designated place created for every tool
- Enables the operator to find the tools faster
- Provides a visual indication of any missing tool
- Protects tools from damage
- Supports 6 sigma in your workplace
- Promotes tool accountability
- Enhances productivity
- Speeds up inventory checks and audits

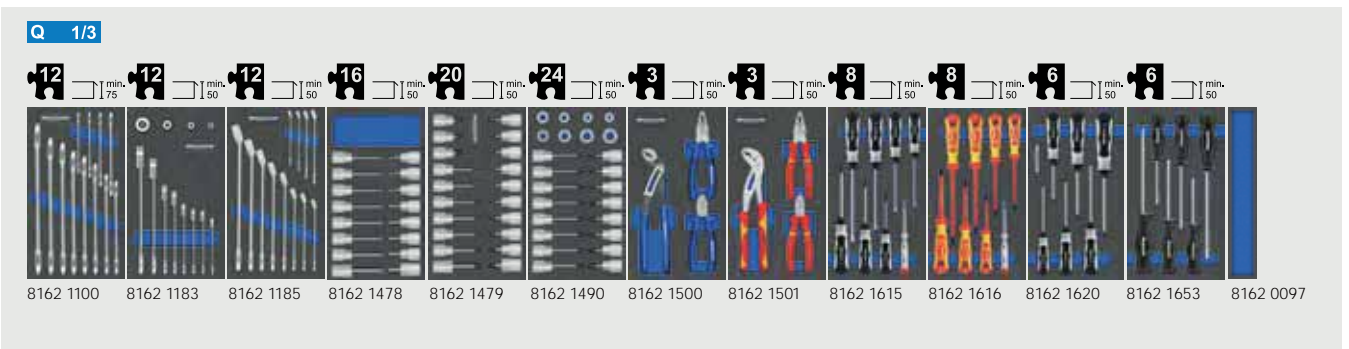
Perfectly organized tools for every field of application.

All at a glance. 86 modules for tools, countless varieties.

Suitable combinations of MTS modules with workshop trolleys:



Q QUADRO



R RATIO **V** VARIO

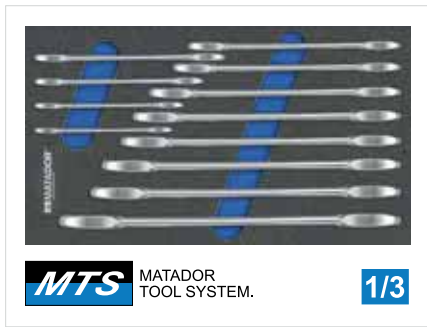
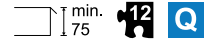
R/V 1/3

 8164 1100 8164 2100	 8164 3100 8164 4100	 8164 1183	 8164 1185	 8164 1190 8164 2190	 8164 1320	 8164 1671 8164 2671 8164 3671 8164 4671	 8164 1201 8164 1203	 8164 1301 8164 1302 8164 1303	 8164 3093	 8164 3081	 8164 1401 8164 1402 8164 1403
 8164 4081	 8164 1481	 8164 4078	 8164 4079	 8164 4092	 8164 7481	 8164 7475	 8164 7575	 8164 1700	 8164 1500	 8164 1501	 8164 1502
 8164 1503	 8164 1504	 8164 1505	 8164 1615	 8164 1616	 8164 1620	 8164 1653	 8164 1663	 8164 1775	 8164 1701	 8164 6176	 8164 6190

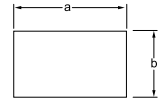
R/V 3/3

 8164 2183	 8164 3190	 8164 3185	 8164 1195 8164 4185	 8164 0096	 8164 0097	 8164 0098
 8164 1200	 8164 1251	 8164 1411 8164 1412 8164 1413	 8164 1421 8164 1422	 8164 0095	 8164 0099	
 8164 1441	 8164 1705	 8164 1786	 8164 1798	 8164 9999		

8162 MTS-Q: Double Open Ended Spanners

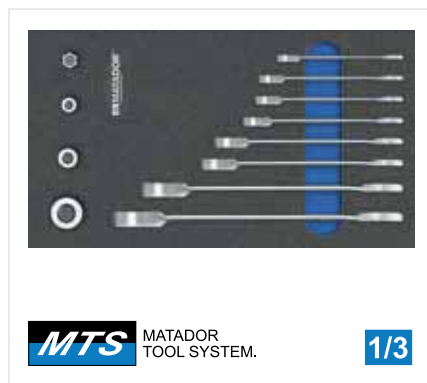
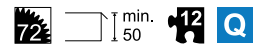


- Two-colored MTS inlay with 12 pcs. set of double open ended spanners
- 6 x 7 - 30 x 32 mm
- Suitable for QUADRO and in combination with empty modules also for RATIO and VARIO

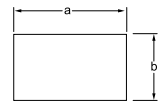


Art. Code	a mm	b mm	g	
8162 1100	340	193	2250	1
Content	0100 6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 - 21 x 23 - 24 x 27 - 25 x 28 - 30 x 32 mm			

8162 MTS-Q: Combination Ratchet Spanners

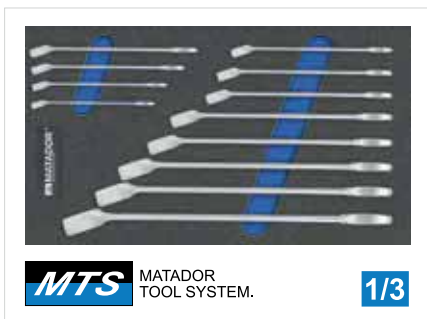
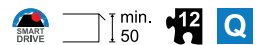


- Two-colored MTS inlay with 12 pcs. set of ring ratchet spanners
- 8 - 19 mm, with adaptors for sockets
- Suitable for QUADRO and in combination with empty modules also for RATIO and VARIO

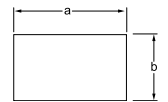


Art. Code	a mm	b mm	g	
8162 1183	340	193	1100	1
Content	0183 8 - 10 - 11 - 13 - 16 - 17 - 18 - 19 mm 0186 6.3 (1/4) Bit - 6.3 (1/4) - 10 (3/8) - 12.5 (1/2)			

8162 MTS-Q: Combination Spanners, angled

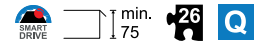


- Two-colored MTS inlay with 12 pcs. set of combination spanners DIN 3113 A
- 8 - 22 mm
- Suitable for QUADRO and in combination with empty modules also for RATIO and VARIO

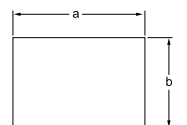


Art. Code	a mm	b mm	g	
8162 1185	340	193	1100	1
Content	0185 6 - 7 - 8 - 9 - 10 - 11 - 13 - 14 - 17 - 19 - 20 - 22 mm			

8162 MTS-Q: Spanners XL



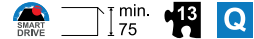
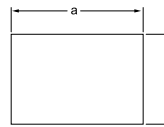
- Two-colored MTS inlay with 26 pcs. set of spanners
- Double open ended spanners 6 x 7 - 30 x 32 mm
- Combination spanners DIN 3113 A 8 - 34 mm
- Suitable for QUADRO and in combination with empty modules also for RATIO and VARIO



Art. Code	a mm	b mm	g	
8162 2100	440	340	5500	1
8162 3100	440	340	4900	1
Content	0100 6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 - 21 x 23 - 24 x 27 - 25 x 28 - 30 x 32 mm AF: 1/4 x 5/16 - 5/16 x 3/8 - 3/8 x 7/16 - 7/16 x 1/2 - 1/2 x 9/16 - 5/8 x 11/16 - 11/16 x 3/4 - 3/4 x 25/32 13/16 x 7/8 - 15/16 x 1 - 1 x 1.1/8 - 1.1/16 x 1.1/4" 0185 8 - 10 - 11 - 12 - 13 - 14 - 17 - 19 - 22 - 24 - 27 - 30 - 32 - 34 mm AF: 5/16 - 3/8 - 7/16 - 1/2 - 9/16 - 5/8 - 11/16 - 3/4 - 13/16 - 7/8 - 15/16 - 1 - 1.1/16 - 1.1/4"			

8162 MTS-Q: Double Ended Ring Spanners XL

- Two-colored MTS inlay with 13 pcs. set of spanners
- Double ended ring spanners DIN 838 6 x 7 - 30 x 32 mm
- Additionally with adjustable spanner
- Suitable for QUADRO and in combination with empty modules also for RATIO and VARIO



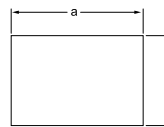
MTS MATADOR TOOL SYSTEM.

3/3

Art. Code	a mm	b mm	g	
8162 1200 MM	440	340	3600	1
Content	0200 6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 - 21 x 23 - 24 x 27 - 25 x 28 - 30 x 32 mm 0591 250 mm (10")			

8162 MTS-Q: Socket Set 6.3 (1/4) - 12.5(1/2)

- Two-colored MTS inlay with 66 pcs. socket set
- Reversible ratchets with lever and safety lock in 6.3 (1/4) and 12.5 (1/2)
- All important operating tools
- Sockets 4 - 32 mm
- Suitable for QUADRO and in combination with empty modules also for RATIO and VARIO



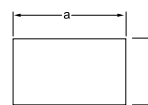
MTS MATADOR TOOL SYSTEM.

3/3

Art. Code	a mm	b mm	g	
8162 6063 MM	440	340	3950	1
8162 6123 MM	440	340	3950	1
Content	2061 2064 115 mm 2065 50, 100 mm 2068 2073 150 mm 2075 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 13 mm 2076 4 - 5.5 - 7 x 32 mm 2077 PH 1 - PH 2 - PH 3 x 32 mm 2077 PZ 1 - PZ 2 - PZ 3 x 32 mm 2078 3 - 4 - 5 - 6 - 8 x 32 mm 2090 E4 - E5 - E6 - E7 - E8 - E10 - E11 2092 T8 - T10 - T15 - T20 - T25 - T27 - T30 - T40 x 32 mm 4061 4064 300 mm 4065 125, 250 mm 4068 4075 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 22 - 24 - 27 - 30 - 32 mm			

8162 MTS-Q: Screwdriver Sockets (Hex)

- Two-colored MTS inlay with 16 pcs. socket set
- Suitable for QUADRO and in combination with empty modules also for RATIO and VARIO

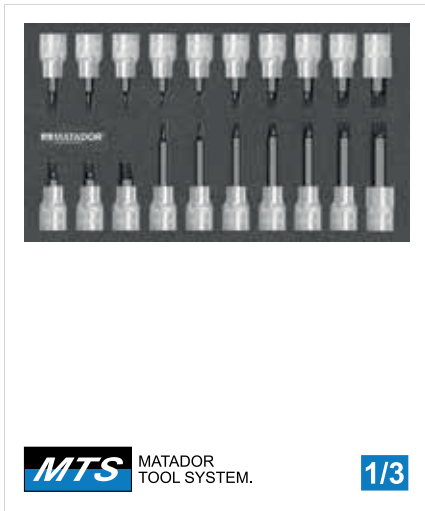


MTS MATADOR TOOL SYSTEM.

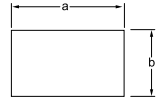
1/3

Art. Code	a mm	b mm	g	
8162 1478 MM	340	193	2000	1
Content	4078 5 x 62 - 6 x 62 - 7 x 62 - 8 x 62 - 10 x 62 - 12 x 62 - 14 x 62 - 17 x 62 mm 5 x 100 - 6 x 100 - 7 x 100 - 8 x 100 mm - 10 x 100 - 12 x 100 - 14 x 100 - 17 x 100 mm			

8162 MTS-Q: Screwdriver Sockets (XZN / RIBE®)

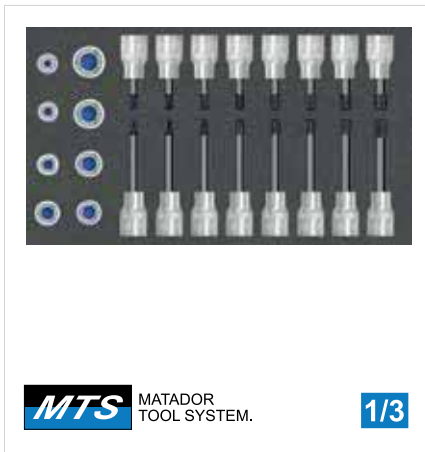
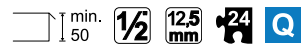


- Two-colored MTS inlay with 20 pcs. socket set
- Suitable for QUADRO and in combination with empty modules also for RATIO and VARIO

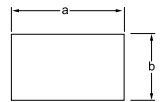


Art. Code	a mm	b mm	g	
8162 1479 MM	340	193	2400	1
Content	4079 M5 x 62 - M6 x 62 - M8 x 62 - M10 x 62 - M12 x 62 - M14 x 62 - M16 x 62 mm M5 x 100 - M6 x 100 - M8 x 100 - M10 x 100 - M12 x 100 - M14 x 100 - M16 x 100 mm 4080 M5 x 62 - M6 x 62 - M8 x 62 - M10 x 62 - M12 x 62 - M14 x 62 mm			

8162 MTS-Q: Screwdriver Sockets (TORX®)

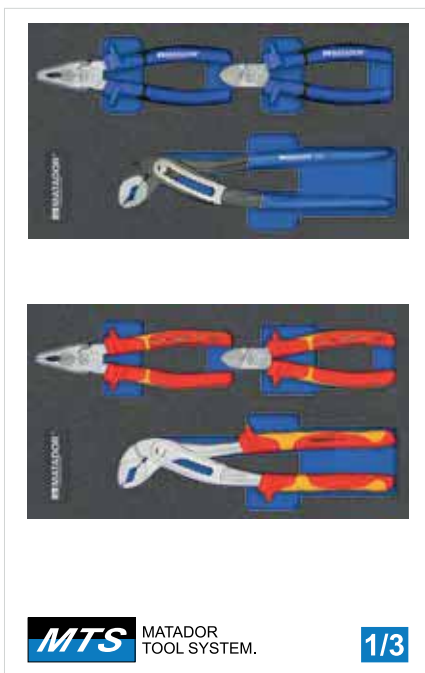
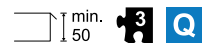


- Two-colored MTS inlay with 24 pcs. socket set
- Suitable for QUADRO and in combination with empty modules also for RATIO and VARIO

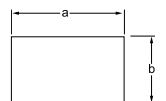


Art. Code	a mm	b mm	g	
8162 1490	340	193	2200	1
Content	4090 E10 - E12 - E14 - E16 - E18 - E20 - E22 - E24 4092 T25 x 62 - T27 x 62 - T30 x 62 - T40 x 62 - T45 x 62 - T50 x 62 - T55 x 62 - T60 x 62 mm T25 x 100 - T27 x 100 - T30 x 100 - T40 x 100 - T45 x 100 - T50 x 100 - T55 x 100 - T60 x 100 mm			

8162 MTS-Q: Pliers



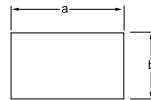
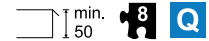
- Two-colored MTS inlay with 3 pcs. screwdrivers set
- Suitable for QUADRO and in combination with empty modules also for RATIO and VARIO



Art. Code	a mm	b mm	g	
8162 1500	340	193	900	1
8162 1501 VDE	340	193	900	1
Content	0500 165 mm (6.1/2") 0532 160 mm (6.1/4") 0556 240 mm			

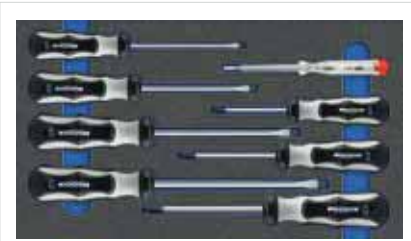
8162 MTS-Q: 2K-Screwdrivers

- Two-colored MTS inlay with 8 pcs. pliers set
- Suitable for QUADRO and in combination with empty modules also for RATIO and VARIO



Art. Code	a mm	b mm	g	
8162 1615	340	193	550	1
8162 1616	340	193	550	1

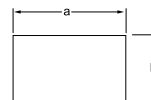
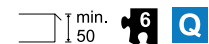
Content	0615/ 0660	0616	0635	0655	0656
	0.5 x 3 x 100 - 0.8 x 5 x 100 - 1.0 x 5.5 x 125 - 1.2 x 6.5 x 150 mm	VDE: 0.6 x 3.5 x 100 - 0.8 x 4 x 100 - 1.0 x 5.5 x 125 - 1.2 x 6.5 x 150 mm	3 mm	PH 0 - PH 1 - PH 2	VDE: PH 0 - PH 1 - PH 2



MTS MATADOR TOOL SYSTEM. **1/3**

8162 MTS-Q: 2K-Screwdrivers (TORX®)

- Two-colored MTS inlay with 6 pcs. screwdrivers set
- Suitable for QUADRO and in combination with empty modules also for RATIO and VARIO



Art. Code	a mm	b mm	g	
8162 1620	340	193	500	1

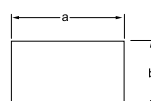
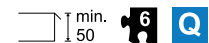
Content	0620
	T10 x 80 - T15 x 80 - T20 x 90 - T25 x 90 - T30 x 110 - T40 x 120 mm



MTS MATADOR TOOL SYSTEM. **1/3**

8162 MTS-Q: Screwdrivers with striking cap

- Two-colored MTS inlay with 6 pcs. screwdrivers set
- Suitable for QUADRO and in combination with empty modules also for RATIO and VARIO



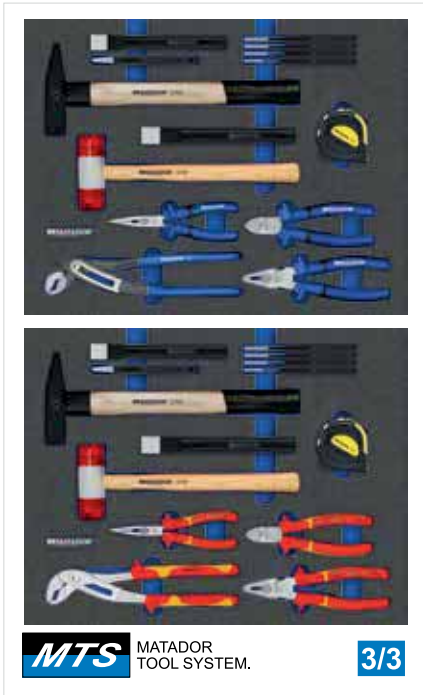
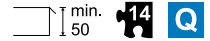
Art. Code	a mm	b mm	g	
8162 1653	340	193	800	1

Content	0652	0653
	1.0 x 5.5 x 100 - 1.2 x 8 x 150 - 1.6 x 10 x 175 mm	PH 1 - PH 2 - PH 3

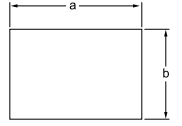


MTS MATADOR TOOL SYSTEM. **1/3**

8162 MTS-Q: Mechanic's Tools



- Two-colored MTS inlay with 14 pcs. set of basic mechanic's tools
- Suitable for QUADRO and in combination with empty modules also for RATIO and VARIO



Art. Code	a mm	b mm	g	
8162 1701	440	340	3200	1
8162 1702	440	340	3200	1
Content	<ul style="list-style-type: none"> 0500 165 mm (6.1/2") 0532 160 mm (6.1/4") 0556 240 mm 0585 205 mm 0700 ø 32 mm 0705 500 g 0714 150 mm, 200 mm 0717 120 x 4 x 10 mm 0718 3 - 4 - 5 - 6 mm 0798 3 m 			

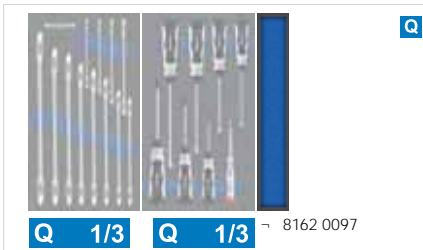
8162 MTS-Q: Mechanic's Tools XL



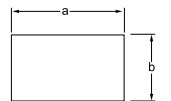
- Two-colored MTS inlay with 18 pcs. set of mechanic's tools
- Suitable for QUADRO and in combination with empty modules also for RATIO and VARIO

Art. Code	a mm	b mm	g	
8162 1703	440	340	3850	1
Content	<ul style="list-style-type: none"> 0705 500, 1000 g 0714 200 mm 0717 120 x 4 x 10 mm 0718 2 - 3 - 4 - 5 - 6 - 8 mm 0775 200 mm 0782 290 x 40 0827 18 mm 0840 250 mm 			

8162 MTS-Q: Empty Modules



- Slim distance module for 2 x 1/3 QUADRO modules in QUADRO:



Art. Code	a mm	b mm	g	
8162 0097	54	340	11	1



- Distance module for 1/3 RATIO/VARIO module in QUADRO:



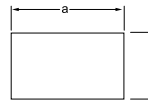
Art. Code	a mm	b mm	g	
8162 0095	440	147	11	1
8162 0096	50	193	11	1

Modules for RATIO and VARIO.

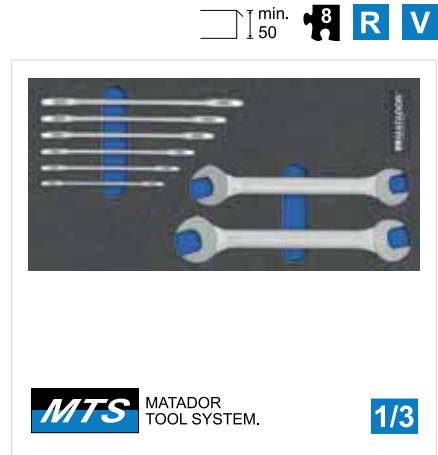
More space, more tools.

8164 MTS-R/V: Double Open Ended Spanners

- Two-colored MTS inlay with 8 pcs. set of double open ended spanners
- 6 x 7 - 20 x 22 mm (1/4 x 5/16 - 3/4 x 25/312" AF)
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



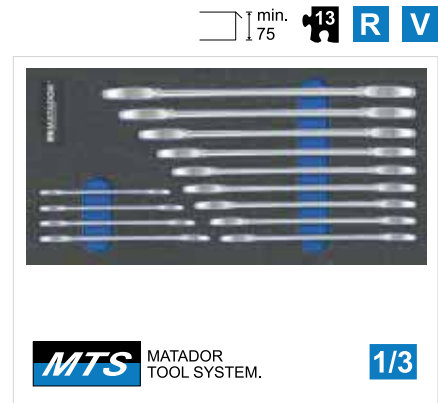
Art. Code		a mm	b mm	g	
8164 1100	8 MM	390	190	800	1
8164 2100	8 AF	390	190	700	1
Content 0100 6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 mm AF: 1/4 x 5/16 - 5/16 x 3/8 - 3/8 x 7/16 - 7/16 x 1/2 - 1/2 x 9/16 - 9/16 x 5/8 - 11/16 x 3/4 - 3/4 x 25/32"					



8164 MTS-R/V: Double Open Ended Spanners XL

- Two-colored MTS inlay with 13 pcs. set of double open ended spanners (1/4 x 5/16 - 1.1/16 x 1.1/4" AF)
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO
- 6 x 7 - 30 x 32 mm

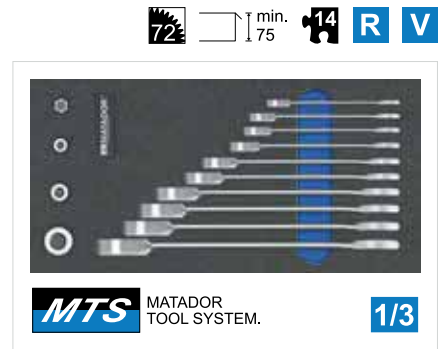
Art. Code		a mm	b mm	g	
8164 3100	13 MM	390	190	2750	1
8164 4100	13 AF	390	190	2300	1
Content 0100 6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 - 21 x 23 - 24 x 26 - 25 x 28 - 27 x 30 - 30 x 32 mm AF: 1/4 x 5/16 - 5/16 x 3/8 - 3/8 x 7/16 - 7/16 x 1/2 - 1/2 x 9/16 - 9/16 x 5/8 - 5/8 x 11/16 - 11/16 x 3/4 - 3/4 x 25/32 - 13/16 x 7/8 - 15/16 x 1 - 1 x 1/8 - 1.1/16 x 1.1/4"					



8164 MTS-R/V: Ring Ratchet Spanners

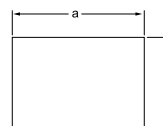
- Two-colored MTS inlay with 14 pcs. set of ring ratchet spanners
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO
- 6 - 22 mm with adaptors for sockets

Art. Code		a mm	b mm	g	
8164 1183	14 MM	390	190	1400	1
Content 0183 6 - 8 - 10 - 11 - 13 - 16 - 17 - 18 - 19 - 22 mm 0186 6.3 (1/4) Bit - 6.3 (1/4) - 10 (3/8) - 12.5 (1/2) mm					



8164 MTS-R/V: Ring Ratchet Spanners XL

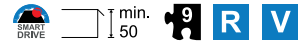
- Two-colored MTS inlay with 23 pcs. set of ring ratchet spanners
- 6 - 32 mm with adaptors for sockets
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



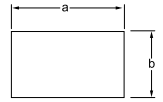
Art. Code		a mm	b mm	g	
8164 2183	23 MM	570	390	4900	1
Content 0183 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 22 - 24 - 27 - 30 - 32 mm 0186 6.3 (1/4) Bit - 6.3 (1/4) - 10 (3/8) - 12.5 (1/2) mm					



8164 MTS-R/V: Combination Spanners, angled

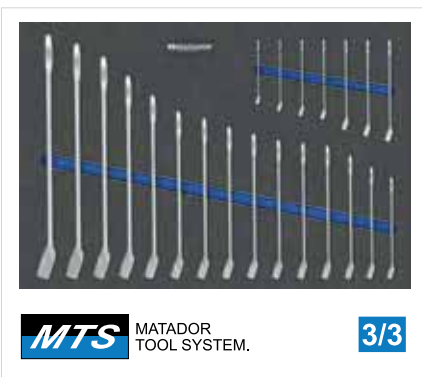
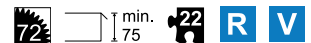


- Two-colored MTS inlay with 9 pcs. set of combination spanners DIN 3113 A
- 6 - 22 mm (1/4 - 13/16" AF)
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO

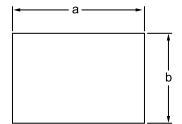


Art. Code	a mm	b mm	g	
8164 1185 MM	390	190	900	1
8164 2185 AF	390	190	900	1
Content 0185	6 - 8 - 10 - 11 - 13 - 14 - 17 - 19 - 22 mm AF: 1/4 - 5/16 - 7/16 - 1/2 - 9/16 - 5/8 - 11/16 - 3/4 - 13/16"			

8164 MTS-R/V: Combination Spanners XL, angled

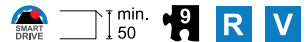


- Two-colored MTS inlay with 9 pcs. set of combination spanners DIN 3113 A
- 6 - 34 mm
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO

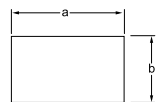


Art. Code	a mm	b mm	g	
8164 3185 MM	570	390	4100	1
Content 0185	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 - 34 mm			

8164 MTS-R/V: Combination Spanners, offset

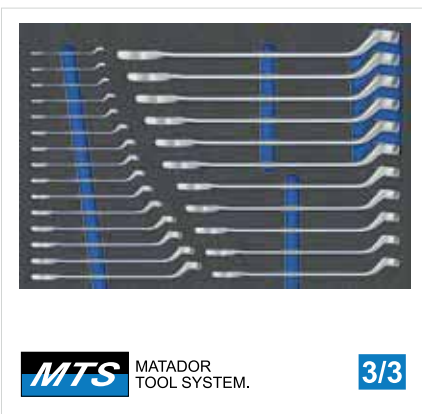
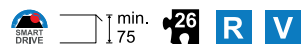


- Two-colored MTS inlay with 9 pcs. set of combination spanners DIN 3113 B
- 6 - 22 mm (1/4 - 7/8" AF)
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO

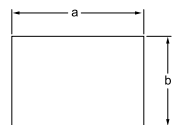


Art. Code	a mm	b mm	g	
8164 1190 MM	390	190	1100	1
8164 2190 AF	390	190	1100	1
Content 0190	6 - 8 - 10 - 11 - 13 - 14 - 17 - 19 - 22 mm AF: 1/4 - 5/16 - 7/16 - 1/2 - 9/16 - 5/8 - 11/16 - 3/4 - 7/8"			

8164 MTS-R/V: Combination Spanners, offset XL



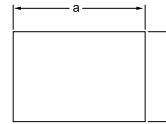
- Two-colored MTS inlay with 26 pcs. set of combination spanners DIN 3113 B
- 6 - 32 mm
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



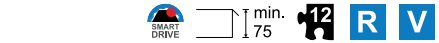
Art. Code	a mm	b mm	g	
8164 3190 MM	570	390	7300	1
Content 0190	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 26 - 27 - 28 - 29 - 30 - 32 mm			

8164 MTS-R/V: Double Ended Ring Spanners, offset

- Two-colored MTS inlay with 12 pcs. set of double ended ring spanners
- 6 x 7 - 30 x 32 mm
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO

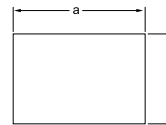


Art. Code	a mm	b mm	g	
8164 1200	570	390	3300	1
Content	0200 6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 - 21 x 23 - 24 x 27 - 25 x 28 - 30 x 32 mm			

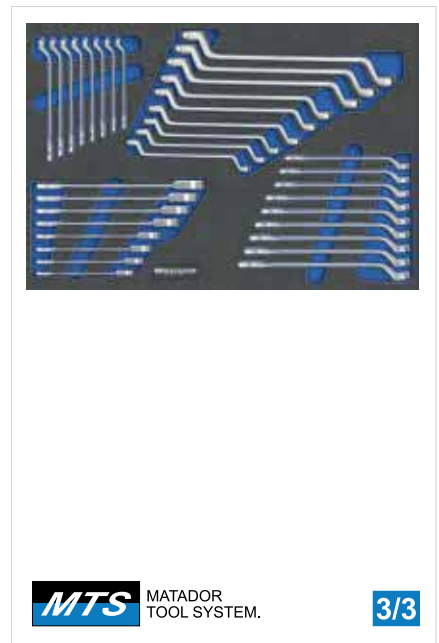
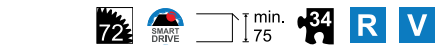


8164 MTS-R/V: Spanners XL

- Two-colored MTS inlay with 34 pcs. set of spanners
- All important sizes
- Combination Spanners DIN 3113 A 6 - 22 mm
- Ring ratchet spanners with GEARplus®-technique 8 - 19 mm
- Double Ended Ring Spanners 6 x 7 - 21 x 23 mm
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO

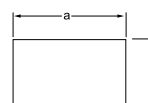
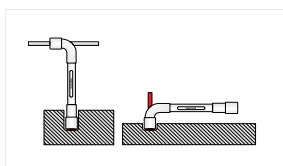


Art. Code	a mm	b mm	g	
8164 1195	570	390	4750	1
Content	0183 8 - 10 - 11 - 13 - 16 - 17 - 18 - 19 mm 0190 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 mm 0200 6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 - 21 x 23 mm			
8164 4185	570	390	4750	1
Content	0183 8 - 10 - 11 - 13 - 16 - 17 - 18 - 19 mm 0185 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 mm 0200 6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 - 21 x 23 mm			

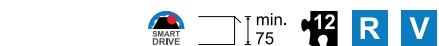


8164 MTS-R/V: Pipe Head Spanners

- Two-colored MTS inlay with 12 pcs. set of pipe head spanners
- 8 - 19 mm
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



Art. Code	a mm	b mm	g	
8164 1320	390	190	2500	1
Content	0320 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm			

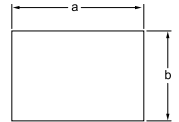







8164 MTS-R/V: Spanners Supplement

min. 50  **R V**



- Two-colored MTS inlay with 15 pcs. set of spanners for confined spaces
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



Art. Code	a mm	b mm	g	
8164 1251 	570	390	2300	1
Content	<ul style="list-style-type: none">  0251 8 x 10 - 10 x 12 - 11 x 13 - 14 x 17 - 19 x 22 mm  0380 6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 mm  0342 \varnothing 5 - 12 mm  0591 250 mm / 10" 			

MTS MATADOR TOOL SYSTEM.

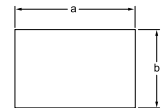
3/3









8164 MTS-R/V: Nut Drivers with T-Handle

min. 50  **R V**



- Two-colored MTS inlay with 3 pcs. set of nut drivers with T-handle
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



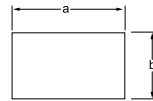
Art. Code	a mm	b mm	g	
8164 1671 	390	190	400	1
Content	 0671 6 - 7 - 8 x 230 mm			
8164 2671 	390	190	400	1
Content	 0671 9 - 10 - 11 x 230 mm			
8164 3671 	390	190	400	1
Content	 0671 12 - 13 - 14 x 230 mm			
8164 4671 	390	190	400	1
Content	 0671 8 - 10 - 13 x 230 mm			

MTS MATADOR TOOL SYSTEM.

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8164 MTS-R/V: Socket Set 6.3 (1/4)

- Two-colored MTS inlay with 85 pcs. socket set
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



min. 75 **1/4** **6.3 mm** **85** **R** **V**



Art. Code		a mm	b mm	g	
8164 1201	85 MM 6	390	190	1600	1
8164 1203	85 AF 12	390	190	1600	1
Content <ul style="list-style-type: none"> 0442 1.5 - 10 mm 2061 2065 50, 100 mm 2068 2073 150 mm 2075 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 13 mm AF: 1/8 - 5/32 - 3/16 - 7/32 - 1/4 - 9/32 - 5/16 - 11/32 - 3/8 - 7/16 - 1/2" 2076 4 - 5.5 - 7 x 32 mm 2077 PH 1 - PH 2 - PH 3 x 32 mm 2078 3 - 4 - 5 - 6 - 8 x 32 mm 2083 6.3 (1/4) - 10 (3/8) 2084 6.3 (1/4) - 6.3 (1/4) Bit 2090 E4 - E5 - E6 - E7 - E8 - E10 - E11 2092 T8 - T10 - T15 - T20 - T25 - T27 - T30 - T40 x 32 mm 7052 72 teeth reversible bit ratchet including adapter for external square drive 6.3 (1/4) Bit-Box <ul style="list-style-type: none"> 6.3 (1/4) 3 - 4 - 5 - 6 mm 6.3 (1/4) 3 - 4 - 5 - 6 mm 6.3 (1/4) PH 1 - PH 2 - PH 3 6.3 (1/4) PZ 1 - PZ 2 - PZ 2 - PZ 3 6.3 (1/4) T10 - T15 - T20 - T25 - T27 - T30 - T40 6.3 (1/4) T10 - T15 - T20 - T25 - T27 - T30 - T40 					

MTS MATADOR TOOL SYSTEM. **1/3**

8164 MTS-R/V: Socket Set 10 (3/8)

- Two-colored MTS inlay with 22 pcs. socket set
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO

min. 50 **1/2** **12.5 mm** **3/8** **10 mm** **22** **R** **V**

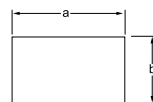


Art. Code		a mm	b mm	g	
8164 1301	22 MM 6	390	190	1320	1
8164 1302	22 MM 12	390	190	1320	1
8164 1303	19 AF 12	390	190	1200	1
Content <ul style="list-style-type: none"> 3061 3065 125, 250 mm 3068 3083 10 (3/8) - 12.5 (1/2) 3075 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 mm AF: 1/4 - 5/16 - 11/32 - 3/8 - 7/16 - 1/2 - 9/16 - 19/32 - 5/8 - 11/16 - 3/4 - 25/32 - 13/16 - 7/8" 					

MTS MATADOR TOOL SYSTEM. **1/3**

8164 MTS-R/V: Socket Set 10 (3/8) supplement

- Two-colored MTS inlay with 28 pcs. set of flare nut wrenches and crow foot spanners
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



min. 50 **3/8** **10 mm** **28** **R** **V**



Art. Code		a mm	b mm	g	
8164 3093	28 MM	390	190	1300	1
Content <ul style="list-style-type: none"> 3078 4 - 5 - 6 - 7 - 8 - 10 mm 3090 E8 - E10 - E11 - E12 - E14 3092 T15 - T20 - T25 - T27 - T30 - T40 - T45 x 48 mm 3093 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm 					

MTS MATADOR TOOL SYSTEM. **1/3**

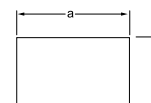
8164 MTS-R/V: Tools Set for Spark Plugs

min. 50

3/8 10 mm 11 R V



- Two-colored MTS inlay with 11 pcs. set of spark plug tools
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



MTS MATADOR TOOL SYSTEM.

1/3

Art. Code	a mm	b mm	g	
8164 3081	390	190	1100	1
Content	<ul style="list-style-type: none"> 0372 5/8" x 16 mm 0383 14 mm 0568 205 mm 0633 6 - 24 V 120 mm 0760 13 x 0.05 - 1.00 mm 0781 150 mm 3081 14 - 16 - 18 - 20.8 mm 4082 205 mm 			

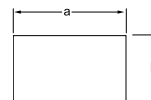
8164 MTS-R/V: Socket Set 12.5 (1/2)

min. 75

1/2 12.5 mm 22 R V



- Two-colored MTS inlay with 22 pcs. socket set
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



MTS MATADOR TOOL SYSTEM.

1/3

Art. Code	a mm	b mm	g	
8164 1401	390	190	3300	1
8164 1402	390	190	3300	1
8164 1403	390	190	3100	1
Content	<ul style="list-style-type: none"> 4061 4064 300 mm 4065 125, 250 mm 4068 4075 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 mm <p>AF: 3/8 - 7/16 - 15/32 - 1/2 - 9/16 - 19/32 - 5/8 - 21/32 - 11/16 - 3/4 - 25/32 - 13/16 - 7/8 - 31/32 - 1.1/8 - 1.5/16 - 1.1/4"</p>			

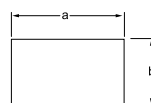
8164 MTS-R/V: Sockets 12.5 (1/2), long type

min. 75

1/2 12.5 mm 14 R V



- Two-colored MTS inlay with 14 pcs. of long type sockets
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



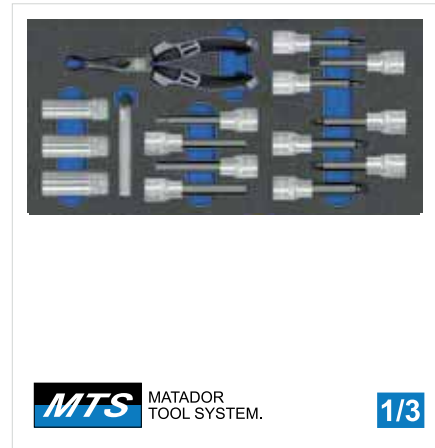
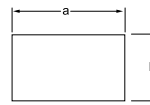
MTS MATADOR TOOL SYSTEM.

1/3

Art. Code	a mm	b mm	g	
8164 4081	390	190	2400	1
Content	<ul style="list-style-type: none"> 4081 10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 - 21 - 22 - 24 - 27 - 30 - 32 mm 			

8164 MTS-R/V: Screwdriver Sockets Automotive

- Two-colored MTS inlay with 16 pcs. screwdriver socket set
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



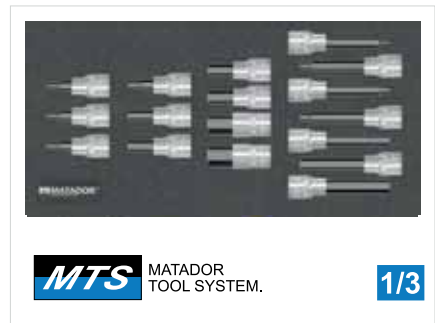
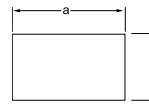
MTS MATADOR TOOL SYSTEM.

1/3

Art. Code	a mm	b mm	g	
8164 1481	390	190	1915	1
Content	0568 205 mm 0760 13 x 0.05 - 1.00 mm 4081 16 - 18 - 20,8 mm 4078 5 x 100 - 6 x 100 - 7 x 100 - 8 x 100 mm 4079 M6 x 100 - M8 x 100 - M10 x 100 - M12 x 100 mm 4092 T 45 x 100 - T 55 x 100 - T 70 x 100 mm			

8164 MTS-R/V: Screwdriver Sockets (Hex)

- Two-colored MTS inlay with 16 pcs. screwdriver socket set
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



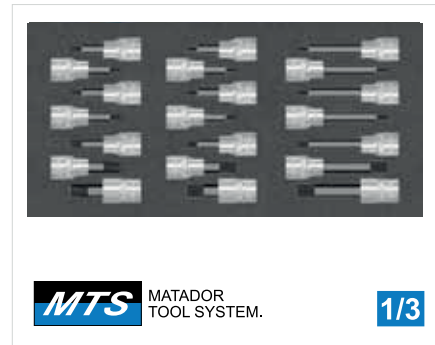
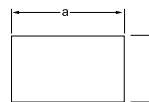
MTS MATADOR TOOL SYSTEM.

1/3

Art. Code	a mm	b mm	g	
8164 4078	390	190	2400	1
Content	4078 4 x 62 - 5 x 62 - 6 x 62 - 7 x 62 - 8 x 62 - 10 x 62 - 12 x 62 - 14 x 62 - 17 x 62 - 19 x 62 mm 4 x 100 - 5 x 100 - 6 x 100 - 7 x 100 - 8 x 100 - 10 x 100 - 12 x 100 mm			

8164 MTS-R/V: Screwdriver Sockets (XZN / RIBE®)

- Two-colored MTS inlay with 21 pcs. screwdriver socket set
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



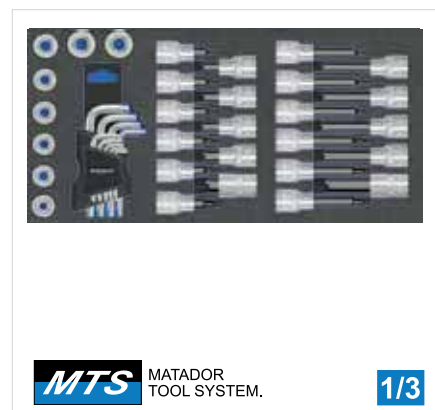
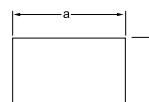
MTS MATADOR TOOL SYSTEM.

1/3

Art. Code	a mm	b mm	g	
8164 4079	390	190	2500	1
Content	4079 M5 x 62 - M6 x 62 - M8 x 62 - M10 x 62 - M12 x 62 - M14 x 62 - M16 x 62 mm M5 x 100 - M6 x 100 - M8 x 100 - M10 x 100 - M12 x 100 - M14 x 100 - M16 x 100 mm 4080 M5 x 62 - M6 x 62 - M8 x 62 - M10 x 62 - M12 x 62 - M14 x 62 - M16 x 62 mm			

8164 MTS-R/V: Screwdriver Sockets (TORX®)

- Two-colored MTS inlay with 39 pcs. screwdriver socket set
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



MTS MATADOR TOOL SYSTEM.

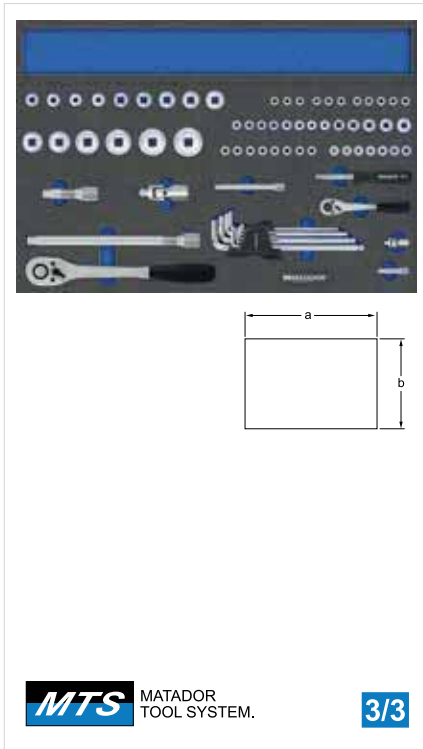
1/3

Art. Code	a mm	b mm	g	
8164 4092	390	190	3200	1
Content	0444 T10 - T50 4090 E10 - E12 - E14 - E16 - E18 - E20 - E22 - E24 4092 T20 x 62 - T25 x 62 - T27 x 62 - T30 x 62 - T40 x 62 - T45 x 62 - T50 x 62 - T55 x 62 - T60 x 62 - T70 x 62 T80 x 62 - T20 x 100 - T25 x 100 - T27 x 100 - T30 x 100 - T30 x 100 - T40 x 100 - T45 x 100 - T50 x 100 - T55 x 100 T60 x 100 - T70 x 100 - T80 x 100 mm			

8164 MTS-R/V: Socket Set 6.3 (1/4) - 12.5 (1/2)



- Two-colored MTS inlay with 72 pcs. socket set

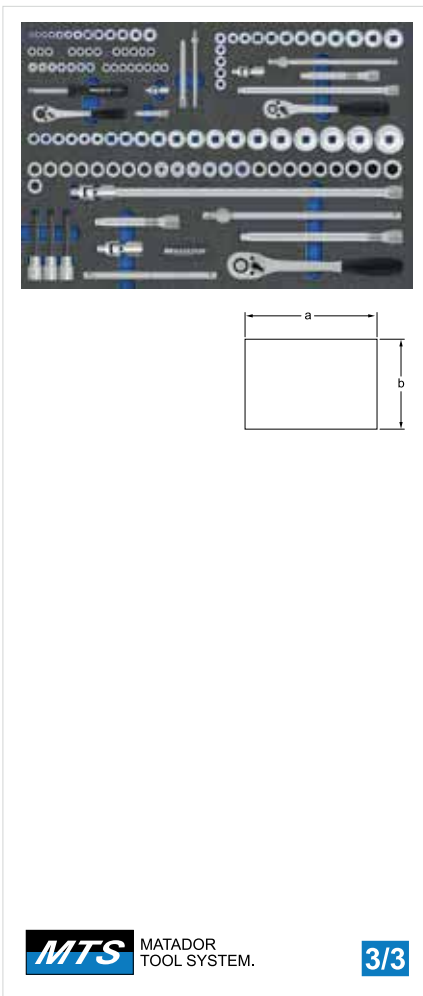


Art. Code		a mm	b mm	g	
8164 1411	MM	570	390	3900	1
8164 1412	MM	570	390	3900	1
8164 1413	AF	570	390	3900	1
Content	<ul style="list-style-type: none"> 0442 1.5 - 10 mm 2061 2065 50, 100 mm 2068 2073 150 mm 2075 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm AF: 1/8 - 5/32 - 3/16 - 7/32 - 1/4 - 9/32 - 5/16 - 11/32 - 3/8 - 7/16 - 1/2 - 9/16" 2076 4 - 5.5 - 7 x 32 mm 2077 PH 1 - PH 2 - PH 3 x 32 mm 2078 3 - 4 - 5 - 6 - 8 x 32 mm 2090 E4 - E5 - E6 - E7 - E8 - E10 - E11 2092 T8 - T10 - T15 - T20 - T25 - T27 - T30 - T40 x 32 mm 4061 4065 75, 250 mm 4068 4075 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 22 - 24 - 27 - 30 - 32 mm AF: 3/8 - 7/16 - 15/32 - 1/2 - 9/16 - 19/32 - 5/8 - 21/32 - 11/16 - 3/4 - 7/8 - 31/32 - 1.1/8 - 3/16 - 1.1/4" 				

8164 MTS-R/V: Socket Set XL



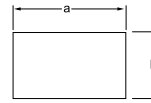
- Two-colored MTS inlay with 120 pcs. socket set



Art. Code		a mm	b mm	g	
8164 1421	MM	570	390	9100	1
8164 1422	MM	570	390	9100	1
Content	<ul style="list-style-type: none"> 2061 2064 115 mm 2065 50, 100 mm 2068 2073 150 mm 2075 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm 2076 4 - 5.5 - 7 x 32 mm 2077 PH 1 - PH 2 2077 PZ 1 - PZ 2 2078 3 - 4 - 5 - 6 - 8 x 32 mm 2090 E4 - E5 - E6 - E7 - E8 - E10 - E11 2092 T8 - T10 - T15 - T20 - T25 - T27 - T30 - T40 x 32 mm 3061 3064 200 mm 3065 125, 250 mm 3068 3075 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 mm 4061 4064 300 mm 4065 125, 250 mm 4074 300 mm 4068 4075 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 27 - 30 - 32 mm 4078 5 - 6 - 7 - 8 - 10 - 12 - 14 - 17 - 19 x 62 mm 4090 E12 - E14 - E16 - E18 - E20 - E24 4092 T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60 x 62 mm T45 - T55 - T70 x 100 mm 				

8164 MTS-R/V: Impact Sockets (short type)

- Two-colored MTS inlay with 24 pcs. impact sockets set
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



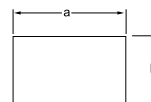
Art. Code			a mm	b mm	g	
8164 7475		MM	390	190	3900	1
Content			7465 125 mm			
			7458			
			7475 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 - 34 mm			
			7499			



MTS MATADOR TOOL SYSTEM. **1/3**

8164 MTS-R/V: Impact Sockets (long type)

- Two-colored MTS inlay with 19 pcs. impact sockets set, long type
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



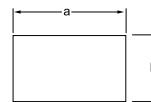
Art. Code			a mm	b mm	g	
8164 7481		MM	390	190	4350	1
Content			7481 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 mm			
			7499			



MTS MATADOR TOOL SYSTEM. **1/3**

8164 MTS-R/V: Impact Sockets 20 (3/4)

- Two-colored MTS inlay with 14 pcs. impact sockets set
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



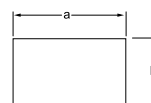
Art. Code			a mm	b mm	g	
8164 7575		MM	390	190	6000	1
Content			7575 24 - 27 - 30 - 32 - 36 mm			
			7581 17 - 19 - 22 - 24 - 27 - 30 mm			
			7582 20 (3/4) - 12,5 (1/2)			
			7599			



MTS MATADOR TOOL SYSTEM. **1/3**

8164 MTS-R/V: Pneumatic Tools

- Two-colored MTS inlay with impact wrench and air blow gun
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO

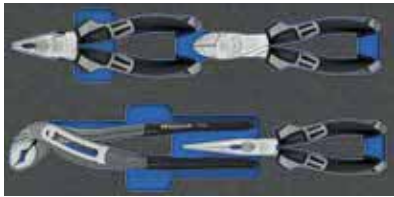


Art. Code			a mm	b mm	g	
8164 1700			390	190	2200	1
Content			7000 1 490 N·m			
			7003 300 mm			

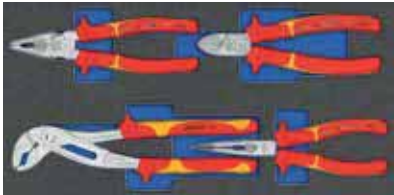


MTS MATADOR TOOL SYSTEM. **1/3**

8164 MTS-R/V: Pliers



~ 8164 1500 / 8164 1502 (VDE)
with straight telephone pliers

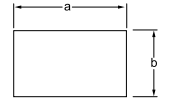


~ 8164 1501 / 8164 1503 (VDE)
with bent telephone pliers

MTS MATADOR
TOOL SYSTEM.

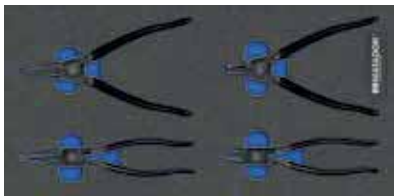
1/3

- Two-colored MTS inlay with 4 pcs. set of pliers
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



Art. Code		a mm	b mm	g	
8164 1500		390	190	1200	1
8164 1502	VDE	390	190	1200	1
Content	0500 180 mm (7") 0530 180 mm (7") 0565 240 mm 0585 205 mm (8")				
8164 1501		390	190	1200	1
8164 1503	VDE	390	190	1200	1
Content	0500 180 mm (7") 0530 180 mm (7") 0565 240 mm 0586 205 mm (8")				

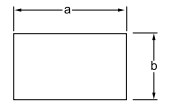
8164 MTS-R/V: Circlip Pliers



MTS MATADOR
TOOL SYSTEM.

1/3

- Two-colored MTS inlay with 4 pcs. circlip pliers
- For circlips ø 19 - 60 mm
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



Art. Code		a mm	b mm	g	
8164 1504		390	190	750	1
Content	0578 A2 180 mm 0580 A21 165 mm 0582 J2 180 mm 0584 J21 165 mm				

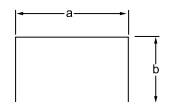
8164 MTS-R/V: Circlip Pliers XL



MTS MATADOR
TOOL SYSTEM.

1/3

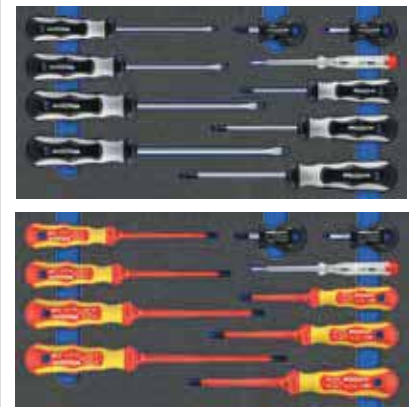
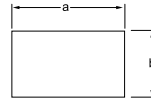
- Two-colored MTS inlay with 4 pcs. circlip pliers
- For circlips ø 40 - 100 mm
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



Art. Code		a mm	b mm	g	
8164 1505		390	190	1000	1
Content	0578 A3 225 mm 0580 A31 215 mm 0582 J3 225 mm 0584 J31 210 mm				

8164 MTS-R/V: Screwdrivers

- Two-colored MTS inlay with 10 pcs. screwdriver set
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



MTS MATADOR TOOL SYSTEM.

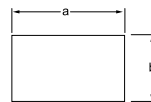
1/3

Art. Code	a mm	b mm	g
8164 1615	390	190	600
8164 1616	390	190	600

Content	0615/0660	0616	0635	0640	0655	0656	0641
	0.5 x 3 x 100 - 0.8 x 5 x 100 - 1.0 x 5.5 x 125 - 1.2 x 6.5 x 150 mm	VDE: 0.6 x 3.5 x 100 - 0.8 x 4 x 100 - 1.0 x 5.5 x 125 - 1.2 x 6.5 x 150 mm	3 mm	0.8 x 4 x 25 mm	PH 0 - PH 1 - PH 2	VDE: PH 0 - PH 1 - PH 2	PH 1

8164 MTS-R/V: Screwdrivers (TORX®)

- Two-colored MTS inlay with 6 pcs. screwdriver set
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



MTS MATADOR TOOL SYSTEM.

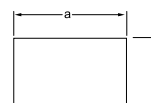
1/3

Art. Code	a mm	b mm	g
8164 1620	390	190	500

Content	0620
	T10 x 80 - T15 x 80 - T20 x 90 - T25 x 90 - T30 x 110 - T40 x 120 mm

8164 MTS-R/V: Screwdrivers with striking cap

- Two-colored MTS inlay with 6 pcs. screwdriver set
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



- 8164 1503 (VDE) with bent telephone pliers

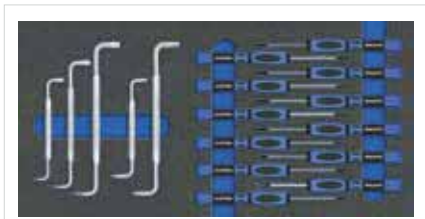
MTS MATADOR TOOL SYSTEM.

1/3

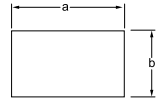
Art. Code	a mm	b mm	g
8164 1653	390	190	800

Content	0652	0653
	1.0 x 5.5 x 100 - 1.2 x 8 x 150 - 2.0 x 12 x 200 mm	PH 1 - PH 2 - PH 3

8164 MTS-R/V: Precision Tools Set



- Two-colored MTS inlay with 17 pcs. set of precision tools
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



Art. Code	a mm	b mm	g	
8164 1663	390	190	400	1
Content	<ul style="list-style-type: none"> 0627 4 - 5.5 - 8 mm 0628 PH 1 - PH 2 - PH 3 - PH 4 0661 0.25 x 1.0 x 50 - 0.4 x 2.0 x 50 - 0.5 x 3.0 x 50 mm 0662 PH 00 - PH 0 - PH 1 0663 T5 - T6 - T7 - T8 - T10 - T15 			

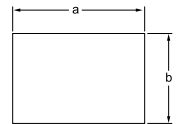
MTS MATADOR TOOL SYSTEM.

1/3

8164 MTS-R/V: T-Handle Wrenches



- Two-colored MTS inlay with 15 pcs. set of T-Handle wrenches
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO

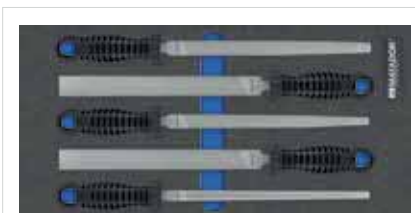


Art. Code	a mm	b mm	g	
8164 1441	570	390	1400	1
Content	<ul style="list-style-type: none"> 0445 2 - 3 - 4 - 5 - 6 - 8 - 10 mm 0446 T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 mm 			

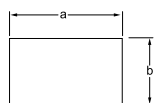
MTS MATADOR TOOL SYSTEM.

3/3

8164 MTS-R/V: Files



- Two-colored MTS inlay with 5 pcs. set of files
- Second cut
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



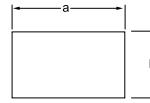
Art. Code	a mm	b mm	g	
8164 1775	390	190	800	1
Content	<ul style="list-style-type: none"> 0775 200 mm 			

MTS MATADOR TOOL SYSTEM.

1/3

8164 MTS-R/V: Mechanic's Tools Basic

- Two-colored MTS inlay with 11 pcs. set of mechanic's tools
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



Art. Code	a mm	b mm	g	
8164 1701	390	190	1900	1
Content 0705 500 g 0714 150 mm, 200 mm 0717 120 x 4 x 10 mm 0718 3 - 4 - 5 - 6 mm 0798 3 m 0827 18 mm 0883				

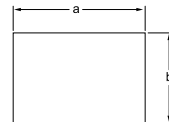


MTS MATADOR TOOL SYSTEM.

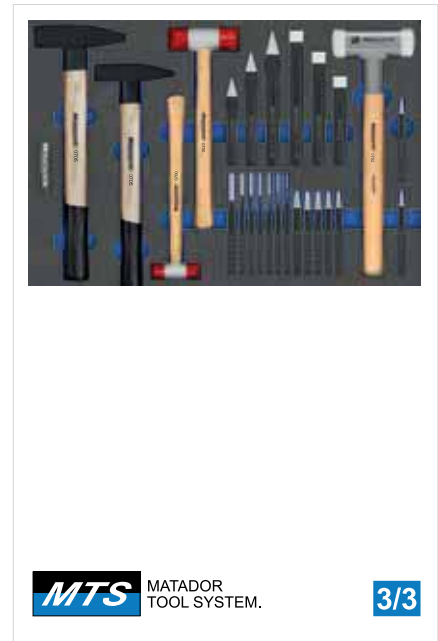
1/3

8164 MTS-R/V: Mechanic's Tools Basic XL

- Two-colored MTS inlay with 25 pcs. set of mechanic's tools
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



Art. Code	a mm	b mm	g	
8164 1705	570	390	5800	1
Content 0700 ø 22, 35 mm 0702 ø 40 mm 0705 500, 1000 g 0714 125 - 175 - 200 mm 0715 125 - 175 - 200 mm 0716 3 - 4 - 5 - 6 - 8 - 10 mm 0717 120 x 4 x 10 mm 0718 2 - 3 - 4 - 5 - 6 - 8 - 10 mm				

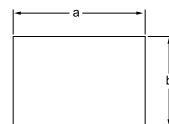


MTS MATADOR TOOL SYSTEM.

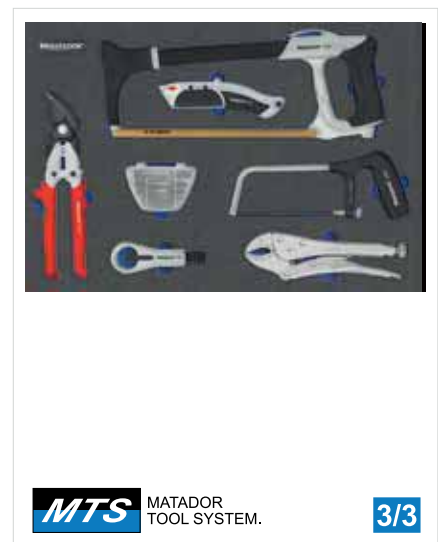
3/3

8164 MTS-R/V: Cutting Tools

- Two-colored MTS inlay with 11 pcs. set of sawing and cutting tools
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



Art. Code	a mm	b mm	g	
8164 1786	570	390	3200	1
Content 0588 10"/250 mm 0747 R 0771 M3 - M24 0786 440 mm 0787 250 mm 0820 8 - 24 mm 0826 180 mm				



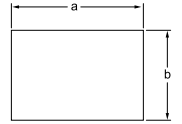
MTS MATADOR TOOL SYSTEM.

3/3

8164 MTS-R/V: Measuring instruments



- Two-colored MTS inlay with 11 pcs. set of measuring tools
- With torque wrench ALLROUND, accuracy ±3%, 20 - 200 N·m
- Suitable for RATIO and VARIO trolleys



MTS MATADOR TOOL SYSTEM.

3/3

Art. Code	a mm	b mm	g	
8164 1798	570	390	3000	1
Content	<ul style="list-style-type: none"> 0760 20 x 0.05 - 1.00 mm 0764 52 x 0.25 - 6.00 mm 0798 3 m 0798 200 x 22 x 6 mm 0798 300 x 15 x 0.5 - 300 x 30 x 1.0 mm 0798 200 x 130 mm 0798 150 mm 0798 400 mm 0799 250 mm 6176 20 - 200 N·m 			

8164 MTS-R/V: Torque tools 9 x 12

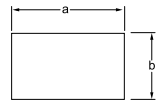


~ 8164 6176



~ 8164 6190

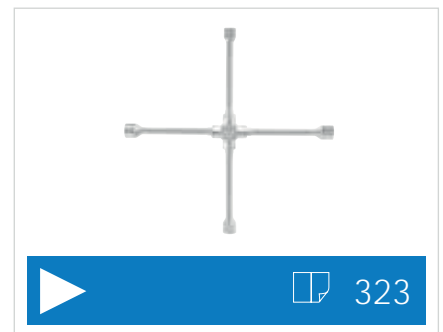
- Set with the most important insert tools with rectangular cavity in 9 x 12 mm
- With torque wrench
- With fine teeth insert reversible ratchet



MTS MATADOR TOOL SYSTEM.

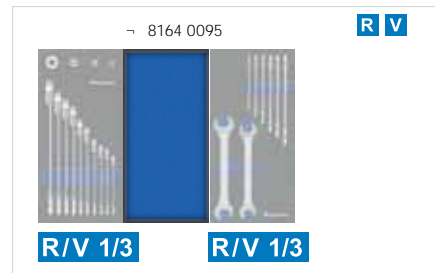
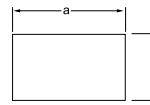
1/3

Art. Code	a mm	b mm	g	
8164 6176	390	190	1400	1
Content	<ul style="list-style-type: none"> 6176 10 - 100 N·m 6186 6190 8 - 10 - 11 - 12 - 13 - 16 - 17 - 19 mm 6191 8 - 10 - 11 - 12 - 13 - 16 - 17 - 19 mm 			
8164 6190	390	190	1400	1
Content	<ul style="list-style-type: none"> 6186 6190 8 - 10 - 11 - 12 - 13 - 16 - 17 - 19 mm 6191 8 - 10 - 11 - 12 - 13 - 16 - 17 - 19 mm 			



8164 MTS-R/V: Empty Modules

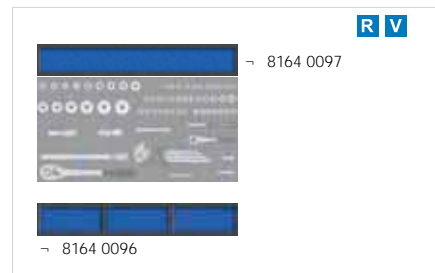
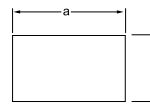
- For 1/3-RATIO module in RATIO/VARIO



Art. Code	a mm	b mm	g	
8164 0095	390	190	18	1

8164 MTS-R/V: Empty Modules

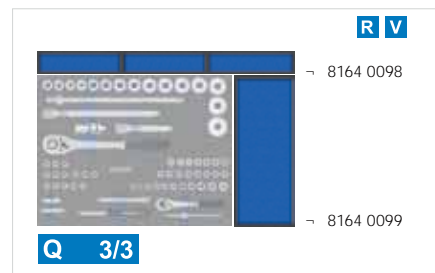
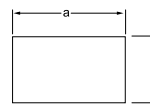
- For 1/3-RATIO module in RATIO/VARIO



Art. Code	a mm	b mm	g	
8164 0096	570	50	16	1
8164 0097	570	50	16	1

8164 MTS-R/V: Empty Modules

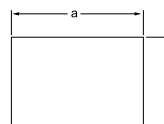
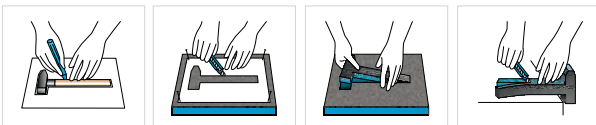
- For 3/3-QUADRO module in RATIO/VARIO:
- Slim top module
- Two-colored empty MTS module



Art. Code	a mm	b mm	g	
8164 0098	570	50	16	1
8164 0099	340	140	18	1

8164 MTS Self Cutting Module

- Two-colored MTS inlay for cutting of individual tool module



Art. Code	a mm	b mm	g	
8164 9999	570	390	120	1

Do you need assistance with your configuration?

Please contact us - we will be pleased to assist you!

Phone +49 (0) 2191 - 9743 - 0
Fax +49 (0) 2191 - 9743 - 44

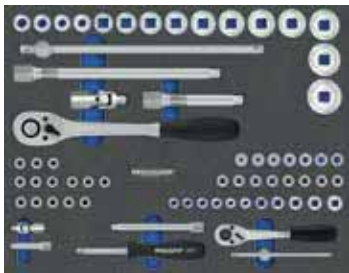
E-Mail info@matador.de
Internet www.matador.de



8162 Tool assortment QUADRO „Basic“



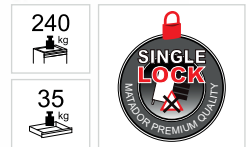
~ 8162 1185 ~ 8162 0097 ~ 8162 1615



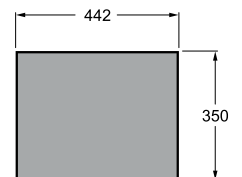
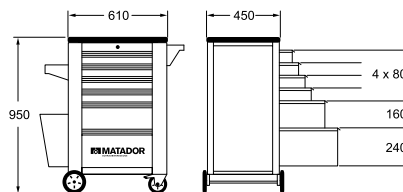
~ 8162 6063
8162 6123



~ 8162 1701



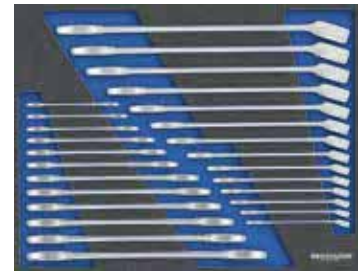
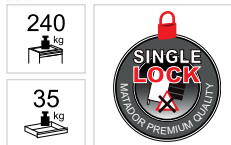
- Workshop trolley **QUADRO with 6 drawers**
- Stable steel sheet construction
- ABS worktop with practical compartments for small parts and tin holders
- Premium powder coating in silver-aluminium / black (RAL 9006 / 9005)
- Drawers: 4 x 80 mm, 1 x 160 mm, 1 x 240 mm), all drawers 100% extendable, loadable with 35 kg each
- Single-locked drawers
- Ball-bearing precision slides
- Side and back panels with square perforation for assembly of accessories
- With **100 high quality tools from MATADOR in 3 drawers** with two-colored MTS modules, e.g.:
 - Combination Spanners, angled, DIN 3113 A 6 - 22 mm
 - Screwdrivers set with 2-component handles
 - Socket Set with 6,3 mm (1/4") and 12,5 mm (1/2") drive, sockets 4 - 32 mm
 - Screwdriver Sockets for slotted, PH, hex and TORX® screws E4 - E11, T8 - T40
 - Mechanic's Tools Kit
 - Pliers Set



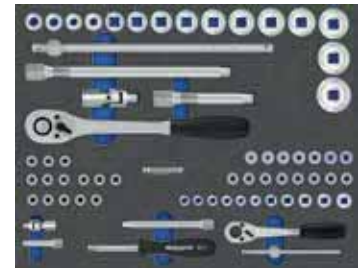
Art. Code	100	MM	6	kg	
8162 9500	100	MM	6	64	1
8162 9501	100	MM	12	64	1

8162 Tool assortment QUADRO „Automotive“

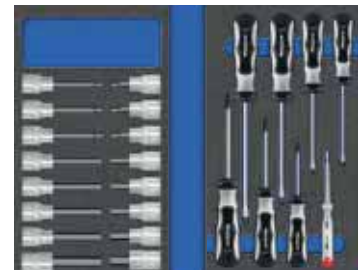
1/2 12,5 mm 1/4 6,3 mm 174



~ 8162 2100



~ 8162 6063
8162 6123



~ 8162 1478 ~ 8162 0097 ~ 8162 1615

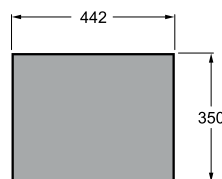
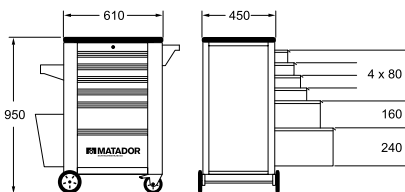


~ 8162 1479 ~ 8162 0097 ~ 8162 1490



~ 8162 1702

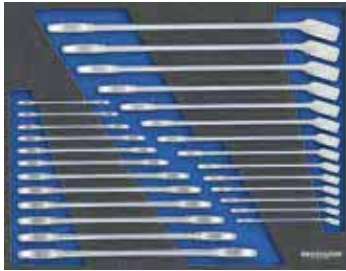
- Workshop trolley **QUADRO** with **6 drawers**
- Stable steel sheet construction
- ABS worktop with practical compartments for small parts and tin holders
- Premium powder coating in silver-aluminium / black (RAL 9006 / 9005)
- Drawers: 4 x 80 mm, 1 x 160 mm, 1 x 240 mm, all drawers 100% extendable, loadable with 35 kg each
- Single-locked drawers
- Ball-bearing precision slides
- Side and back panels with square perforation for assembly of accessories
- With **174 high quality tools from MATADOR in 5 drawers** with two-colored MTS modules, e.g.:
 - Double Open Ended Spanners DIN 3110 6 x 7 - 30 x 32 mm
 - Combination Spanners, angled, DIN 3113 A 8 - 34 mm
 - Socket Set with 6,3 mm (1/4") and 12,5 mm (1/2") drive, sockets 4 - 32 mm
 - Screwdriver Sockets for slotted, PH and hex screws (e.g. 3 - 17 mm, short and long type), XZN screws M5 - M16 (short and long type), RIBE® screws M5 - M14 and also TORX® screws E4 - E24 and T8 - T60 (from T25 short and long type)
 - etc.



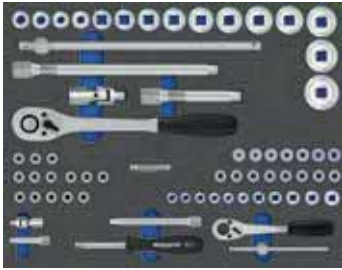
Art. Code	174	MM	6	kg	
8162 9510	174	MM	6	74	1
8162 9511	174	MM	12	74	1



8162 Tool assortment QUADRO „Truck“



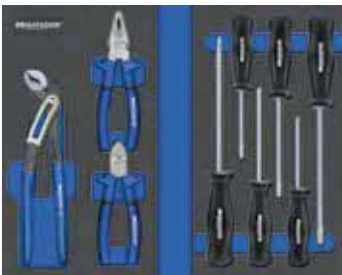
~ 8162 2100



~ 8162 6063
8162 6123



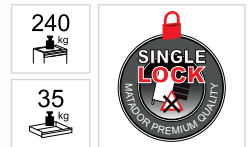
~ 8162 1478 ~ 8162 0097 ~ 8162 1490



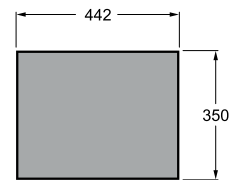
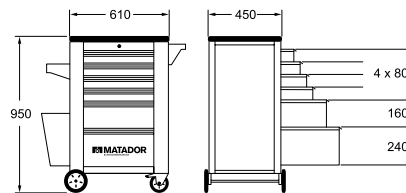
~ 8162 1500 ~ 8162 0097 ~ 8162 1653



~ 8162 1703



- Workshop trolley **QUADRO** with **6 drawers**
- Stable steel sheet construction
- ABS worktop with practical compartments for small parts and tin holders
- Premium powder coating in silver-aluminium / black (RAL 9006 / 9005)
- Drawers: 4 x 80 mm, 1 x 160 mm, 1 x 240 mm, all drawers 100% extendable, loadable with 35 kg each
- Single-locked drawers
- Ball-bearing precision slides
- Side and back panels with square perforation for assembly of accessories
- With **160 high quality tools from MATADOR in 5 drawers** with two-colored MTS modules, e.g.:
 - Double Open Ended Spanners DIN 3110 6 x 7 - 30 x 32 mm
 - Combination Spanners, angled, DIN 3113 A 8 - 34 mm
 - Socket Set with 6,3 mm (1/4") and 12,5 mm (1/2") drive, sockets 4 - 32 mm
 - Screwdriver Sockets for slotted, PH and hex screws (e.g. 3 - 17 mm, short and long type) and TORX® screws E4 - E24 and T8 - T60 (from T25 short and long type)
 - Screwdrivers with striking cap
 - Mechanic's Tools Kit XL
 - etc.

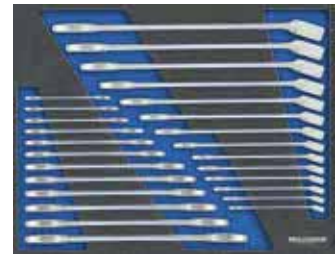


Art. Code	160	MM	6	kg	1
8162 9520	160	MM	6	74	1
8162 9521	160	MM	12	74	1



8162 Tool assortment QUADRO „Champion“

1/2 12,5 mm 1/4 6,3 mm 194



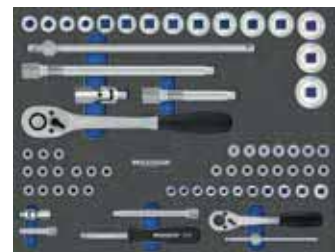
~ 8162 2100



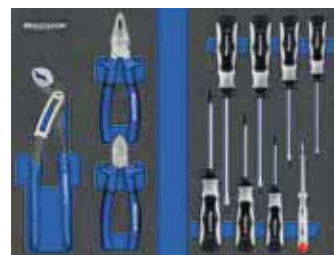
~ 8162 1183 ~ 8162 0097 ~ 8162 1490



~ 8162 1478 ~ 8162 0097 ~ 8162 1479



~ 8162 6063 / 8162 6123



~ 8162 1500 ~ 8162 0097 ~ 8162 1615



~ 8162 1703

MTS MATADOR TOOL SYSTEM.



240 kg

35 kg

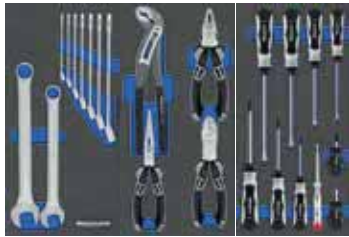


- Workshop trolley **QUADRO** with **6 drawers** and tool chest **QUADRO+** with **additional 4 drawers**
- Stable steel sheet construction
- ABS worktop with practical compartments for small parts and tin holders
- Premium powder coating in silver-aluminium / black (RAL 9006 / 9005)
- Drawers: 8 x 80 mm, 1 x 160 mm, 1 x 240 mm, all drawers 100% extendable, loadable with 35 kg each
- Single-locked drawers
- Ball-bearing precision slides
- Side and back panels with square perforation for assembly of accessories

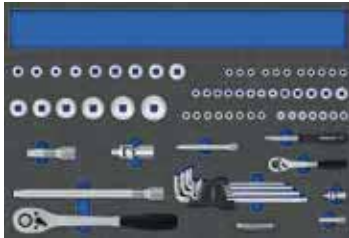
- With **194 high quality tools from MATADOR in 6 drawers** with two-colored MTS modules, e.g.:
 - Double Open Ended Spanners DIN 3110 6 x 7 - 30 x 32 mm
 - Combination Spanners, angled, DIN 3113 A 8 - 34 mm
 - Combination Ratchet Spanners 8 - 19 mm
 - Sockets 4 - 32 mm
 - Screwdriver Sockets for slotted, PH and hex screws (e.g. 3 - 17 mm, short and long type), XZN screws M5 - M16 (short and long type), RIBE® screws M5 - M14 and also TORX® screws E4 - E24 and T8 - T60 (from T25 short and long type)
 - Mechanic's Tools Kit XL
 - etc.

Art. Code	194	MM	6	kg	1
8162 9530	194	MM	6	95	1
8162 9531	194	MM	12	95	1

8163 Tool assortment **RATIO „Basic“**



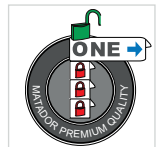
~ 8164 1185 ~ 8164 1500 ~ 8164 1615



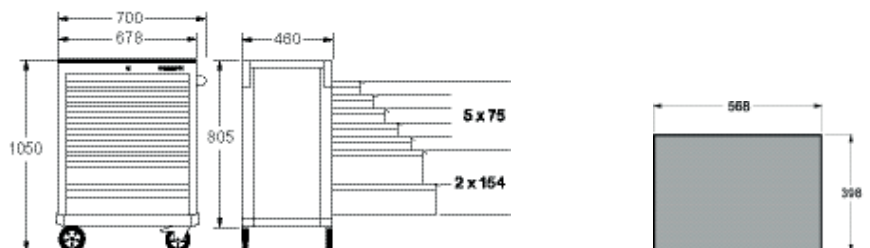
~ 8164 1411
8164 1412
8164 1413



~ 8164 1701 ~ 8164 4671 ~ 8164 1775



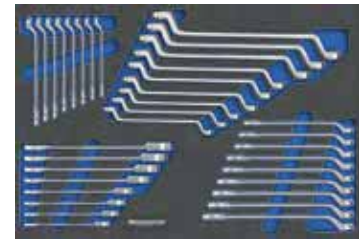
- Workshop trolley **RATIO with 7 drawers**
- Durable ABS worktop with compartments for small parts and holders for screwdrivers
- Premium powder coating in silver-aluminium / black (RAL 9006 / 9005)
- Drawers: 5 x 75 mm, 2 x 154 mm, all drawers 100% extendable, loadable with 45 kg each
- 3-level locking system: central locking, single-locked drawers, mechanical interlock („one at-a-time“ locking system)
- Ball-bearing high-performance slides
- Side panels with square perforation for assembly of accessories
- With **114 high quality tools from MATADOR in 3 drawers** with two-colored MTS modules Trolley, e.g.:
 - Combination Spanners, angled, DIN 3113 A 6 - 22 mm
 - Socket Set with 6,3 mm (1/4") and 12,5 mm (1/2") drive, sockets 4 - 32 mm
 - Screwdriver Sockets for slotted, PH and hex screws (e.g. 3 - 17 mm, short and long type) and TORX® screws E4 - E11, T8 - T40
 - Mechanic's Tools Kit
 - Nut Drivers with T-Handle 8 - 10 - 13 mm
 - Set of files
 - etc.



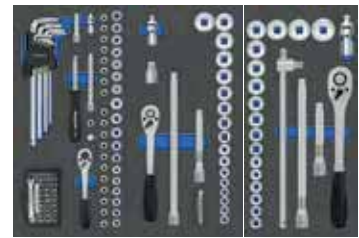
Art. Code	Icon	Unit	Weight (kg)	Quantity
8163 9500	MM 6	kg	79	1
8163 9501	MM 12	kg	79	1
8163 9502	AF 12	kg	79	1



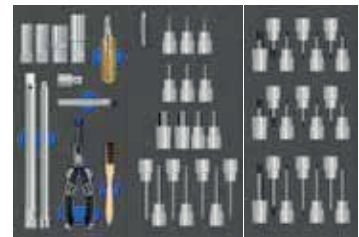
8163 Tool assortment **RATIO „Automotive XL“**



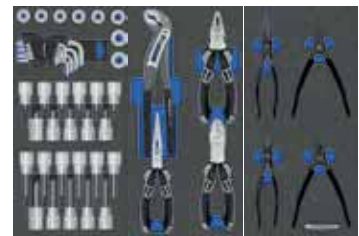
~ 8164 1195



~ 8164 1201 ~ 8164 1301 ~ 8164 1401
8164 1203 8164 1302 8164 1402
8164 1303 8164 1403



~ 8164 3081 ~ 8164 4078 ~ 8164 4079



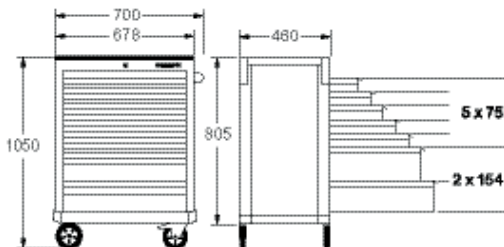
~ 8164 4092 ~ 8164 1500 ~ 8164 1504



~ 8164 1615 ~ 8164 1701 ~ 8164 1775

- Workshop trolley **RATIO** with **7 drawers**
- Durable ABS worktop with compartments for small parts and holders for screwdrivers
- Premium powder coating in silver-aluminium / black (RAL 9006 / 9005)
- Drawers: 5 x 75 mm, 2 x 154 mm, all drawers 100% extendable, loadable with 45 kg each
- 3-level locking system: central locking, single-locked drawers, mechanical interlock („one at-a-time“ locking system)
- Ball-bearing high-performance slides
- Side panels with square perforation for assembly of accessories

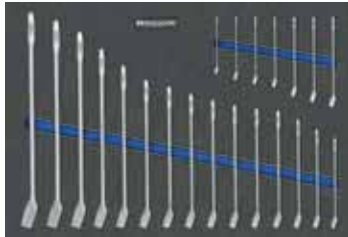
- With **284 high quality tools from MATADOR** in **5 drawers** with two-colored MTS modules Trolley, e.g.:
- Set of Spanners, different types, 6 - 23 mm
- Combination Ratchet Spanners 8 - 19 mm
- Socket Set with 6,3 mm (1/4") and 12,5 mm (1/2") drive, sockets 4 - 32 mm
- Slotted, PH and hex screws (e.g. 4 - 19 mm), XZN screws M5 - M16 (short and long type), RIBE® screws M5 - M16 (short type) and also TORX® screws E4 - E24 and T8 - T80 (from T20 short and long type)
- Tools set for spark plugs
- etc.



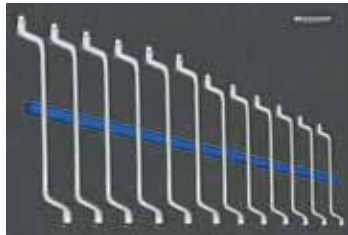
Art. Code	Icon	Unit	Weight (kg)	Quantity
8163 9525	284 MM 6	kg	95	1
8163 9526	284 MM 12	kg	95	1
8163 9527	284 AF 12	kg	95	1



8163 Tool assortment **RATIO „Truck“**



~ 8164 3185



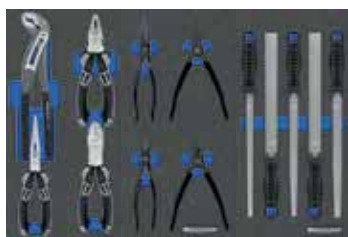
~ 8164 1200



~ 8164 1201 ~ 8164 1401 ~ 8164 1653
8164 1203 ~ 8164 1402 ~ 8164 1403



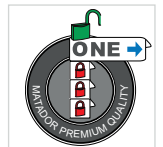
~ 8164 4078 ~ 8164 4092 ~ 8164 7481



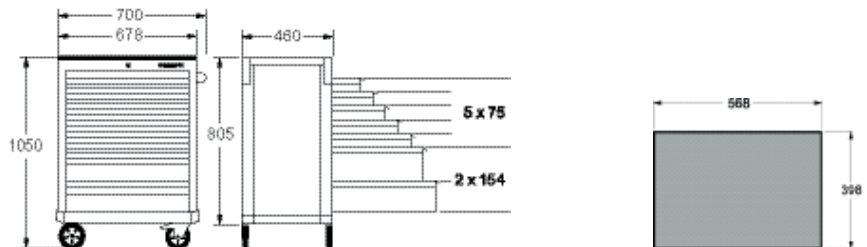
~ 8164 1500 ~ 8164 1504 ~ 8164 1775



~ 8164 1705

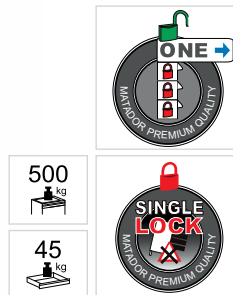


- Workshop trolley **RATIO with 7 drawers**
- Durable ABS worktop with compartments for small parts and holders for screwdrivers
- Premium powder coating in silver-aluminium / black (RAL 9006 / 9005)
- Drawers: 5 x 75 mm, 2 x 154 mm, all drawers 100% extendable, loadable with 45 kg each
- 3-level locking system: central locking, single-locked drawers, mechanical interlock („one at-a-time“ locking system)
- Ball-bearing high-performance slides
- Side panels with square perforation for assembly of accessories
- With **259 high quality tools from MATADOR in 6 drawers** with two-colored MTS modules Trolley, e.g.:
 - Combination Spanners, angled, DIN 3113 A 6 - 34 mm
 - Double Ended Ring Spanners DIN 838 6 x 7 - 30 x 32 mm
 - Socket Set with 6,3 mm (1/4") and 12,5 mm (1/2") drive, sockets 4 - 32 mm
 - Screwdriver Sockets for slotted, PH and hex screws (e.g. 4 - 19 mm) and TORX® screws E4 - E24, T8 - T80 (from T20 short and long type)
 - Set of impact sockets (short type)
 - Screwdrivers with striking cap
 - Mechanic's Tools Kit XL
 - etc.



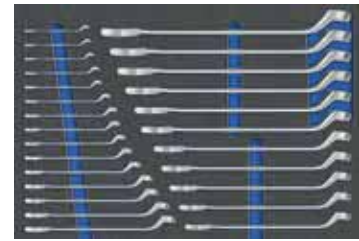
Art. Code	Weight (kg)	Volume (l)
8163 9530 MM	96	1
8163 9531 MM	96	1
8163 9532 AF	96	1

8163 Tool assortment **RATIO „Industrial“**



- Workshop trolley **RATIO with 7 drawers**
- Durable ABS worktop with compartments for small parts and holders for screwdrivers
- Premium powder coating in silver-aluminium / black (RAL 9006 / 9005)
- Drawers: 5 x 75 mm, 2 x 154 mm, all drawers 100% extendable, loadable with 45 kg each
- 3-level locking system: central locking, single-locked drawers, mechanical interlock („one at-a-time“ locking system)
- Ball-bearing high-performance slides
- Side panels with square perforation for assembly of accessories

- With **226 high quality tools from MATADOR in 5 drawers** with two-colored MTS modules Trolley, e.g.:
 - Combination Spanners, offset, DIN 3113 B 6 - 32 mm
 - Socket Set with 6,3 mm (1/4") and 12,5 mm (1/2") drive, sockets 4 - 32 mm
 - Screwdriver Sockets for slotted, PH and hex screws (e.g. 4 - 19 mm)
 - Set of impact sockets (short type)
 - Nut Drivers with T-Handle 8 - 10 - 13 mm
 - Set of files
 - Set of pliers
 - Set of screwdrivers, also with striking cap
 - Mechanic's Tools Kit XL
 - etc.



~ 8164 3190



~ 8164 1201 ~ 8164 1401 ~ 8164 4078
8164 1203 8164 1402 8164 1403



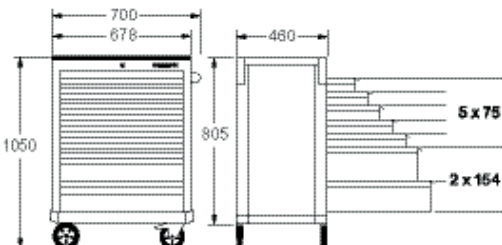
~ 8164 7475 ~ 8164 4671 ~ 8164 1775



~ 8164 1500 ~ 8164 1615 ~ 8164 1653



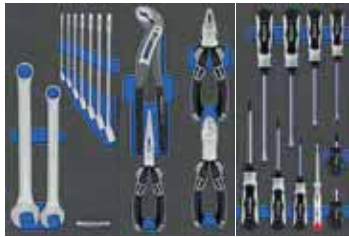
~ 8164 1705



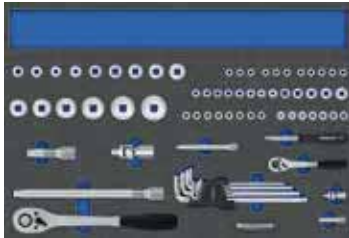
Art. Code	Icon	Unit	Weight (kg)	Quantity
8163 9540	226 MM 6	kg	88	1
8163 9541	226 MM 12	kg	88	1
8163 9542	226 AF 12	kg	88	1



8164 Tool assortment VARIO „Basic“



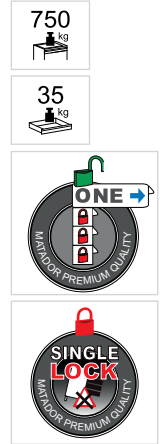
~ 8164 1185 ~ 8164 1500 ~ 8164 1615



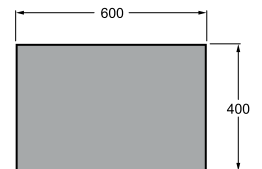
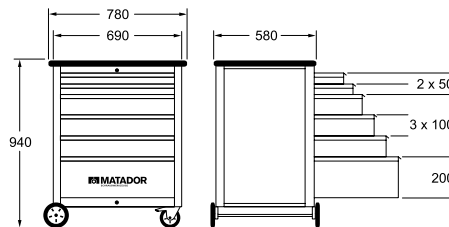
~ 8164 1411
8164 1412
8164 1413



~ 8164 1701 ~ 8164 4671 ~ 8164 1775



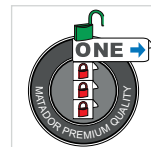
- Workshop trolley **VARIO with 6 drawers**
- Body made of high-quality steel sheet 1.75 mm reinforced frame
- ABS worktop with compartments for small parts, screwdriver holders and 2 handles
- Premium powder coating in silver-aluminium / black (RAL 9006 / 9005)
- Drawers: 2 x 50 mm, 3 x 100 mm, 1 x 200 mm, all drawers 100% extendable, loadable with 35 kg each
- 3-level locking system: central locking, single-locked drawers, mechanical interlock („one at-a-time“ locking system)
- Ball-bearing precision slides
- Side and back panels with square perforation for assembly of accessories
- With **114 high quality tools from MATADOR in 3 drawers** with two-colored MTS modules e.g.:
 - Combination Spanners, angled, DIN 3113 A 6 - 22 mm
 - Socket Set with 6,3 mm (1/4") and 12,5 mm (1/2") drive, sockets 4 - 32 mm
 - Screwdriver Sockets for slotted, PH and hex screws (e.g. 3 - 17 mm, short and long type) and TORX® screws E4 - E11, T8 - T40
 - Mechanic's Tools Kit
 - Nut Drivers with T-Handle 8 - 10 - 13 mm
 - Set of files
 - etc.



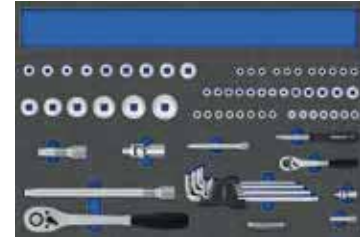
Art. Code	Tools	Weight (kg)	Volume
8164 9500	114 MM 6	85	1
8164 9501	114 MM 12	85	1
8164 9502	114 AF 12	85	1



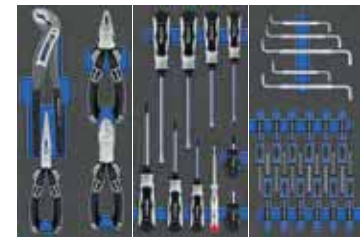
8164 Tool assortment VARIO „Allround“



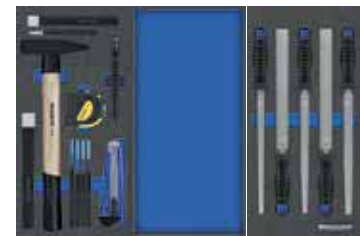
~ 8164 1100 ~ 8164 1183 ~ 8164 4671



~ 8164 1411
~ 8164 1412
~ 8164 1413



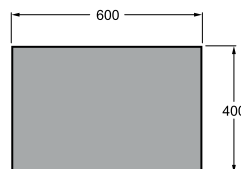
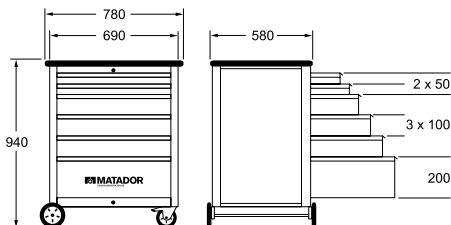
~ 8164 1500 ~ 8164 1615 ~ 8164 1663



~ 8164 1701 ~ 8164 0095 ~ 8164 1775

- Workshop trolley **VARIO** with **6 drawers**
- Body made of high-quality steel sheet 1.75 mm reinforced frame
- ABS worktop with compartments for small parts, screwdriver holders and 2 handles
- Premium powder coating in silver-aluminium / black (RAL 9006 / 9005)
- Drawers: 2 x 50 mm, 3 x 100 mm, 1 x 200 mm, all drawers 100% extendable, loadable with 35 kg each
- 3-level locking system: central locking, single-locked drawers, mechanical interlock („one at-a-time“ locking system)
- Ball-bearing precision slides
- Side and back panels with square perforation for assembly of accessories

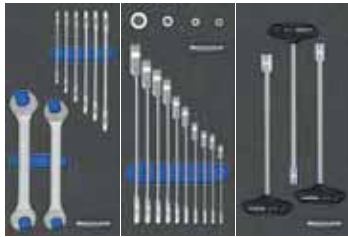
- With **144 high quality tools from MATADOR in 4 drawers** with two-colored MTS modules e.g.:
- Double Open Ended Spanners DIN 3110 6 x 7 - 20 x 22 mm
- Combination Ratchet Spanners 8 - 19 mm
- Nut Drivers with T-Handle 8 - 10 - 13 mm
- Socket Set with 6,3 mm (1/4") and 12,5 mm (1/2") drive, sockets 4 - 32 mm
- Screwdriver Sockets for slotted, PH, hex and TORX® screws E4 - E11, T8 - T40
- Pliers Set
- Precision Tools Set
- Mechanic's Tools Kit
- Set of files



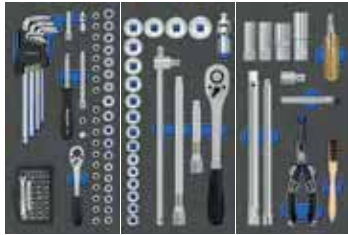
Art. Code	Icon	Unit	Weight (kg)	Quantity
8164 9510		MM	88	1
8164 9511		MM	88	1
8164 9512		AF	88	1



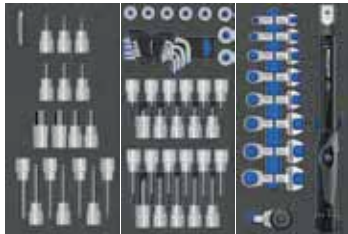
8164 Tool assortment VARIO „Automotive“



~ 8164 1100 ~ 8164 1183 ~ 8164 4671



~ 8164 1201 ~ 8164 1401 ~ 8164 3081
~ 8164 1203 ~ 8164 1402 ~ 8164 1403



~ 8164 4078 ~ 8164 4092 ~ 8164 6176



~ 8164 1500 ~ 8164 1504 ~ 8164 1615

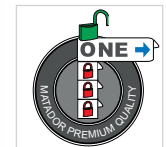


~ 8164 1701 ~ 8164 1620 ~ 8164 1775

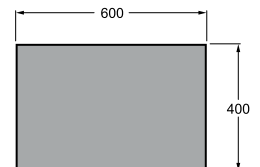
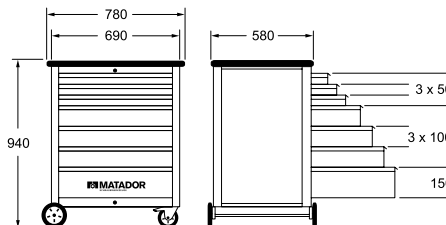


750 kg

35 kg



- Workshop trolley **VARIO with 7 drawers**
- Body made of high-quality steel sheet 1.75 mm reinforced frame
- ABS worktop with compartments for small parts, screwdriver holders and 2 handles
- Premium powder coating in silver-aluminium / black (RAL 9006 / 9005)
- Drawers: 3 x 50 mm, 3 x 100 mm, 1 x 150 mm, all drawers 100% extendable, loadable with 35 kg each
- 3-level locking system: central locking, single-locked drawers, mechanical interlock („one at-a-time“ locking system)
- Ball-bearing precision slides
- Side and back panels with square perforation for assembly of accessories
- With **256 high quality tools from MATADOR in 5 drawers** with two-colored MTS modules e.g.:
 - Double Open Ended Spanners DIN 3110 6 x 7 - 20 x 22 mm
 - Combination Ratchet Spanners 6 - 22 mm
 - Nut Drivers with T-Handle 8 - 10 - 13 mm
 - Socket Set with 6,3 mm (1/4") and 12,5 mm (1/2") drive, sockets 4 - 32 mm
 - Screwdriver Sockets for slotted, PH and hex screws (4 - 19 mm, short and long type) and TORX® screws E4 - E24, T8 - T80 (from T20 short and long type)
 - Set of insert tools 6 - 19 mm with torque wrench 10 - 100 N-m
 - Mechanic's Tools Kit
 - etc.



Art. Code	256	MM	6	kg	
8164 9520	256	MM	6	79	1
8164 9521	256	MM	12	79	1
8164 9522	256	AF	12	79	1

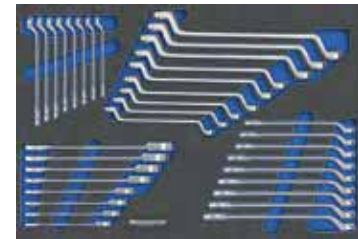
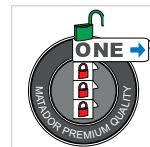


8164 Tool assortment VARIO „Automotive XL“

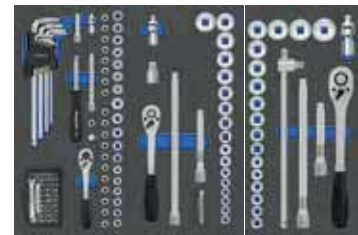


750
kg

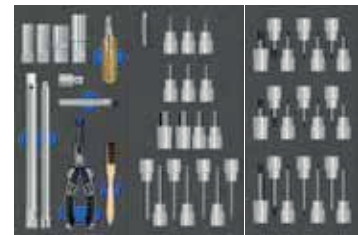
35
kg



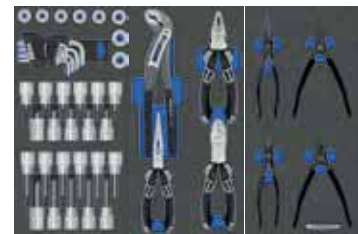
~ 8164 1195



~ 8164 1201 ~ 8164 1301 ~ 8164 1401
8164 1203 8164 1302 8164 1402
8164 1303 8164 1403



~ 8164 3081 ~ 8164 4078 ~ 8164 4079



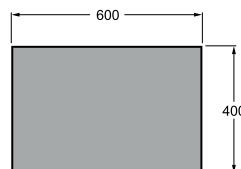
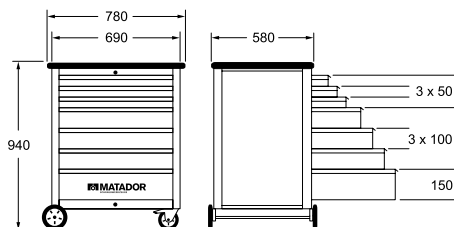
~ 8164 4092 ~ 8164 1500 ~ 8164 1504



~ 8164 1615 ~ 8164 1701 ~ 8164 1775

- Workshop trolley **VARIO** with **7 drawers**
- Body made of high-quality steel sheet 1.75 mm reinforced frame
- ABS worktop with compartments for small parts, screwdriver holders and 2 handles
- Premium powder coating in silver-aluminium / black (RAL 9006 / 9005)
- Drawers: 3 x 50 mm, 3 x 100 mm, 1 x 150 mm, all drawers 100% extendable, loadable with 35 kg each
- 3-level locking system: central locking, single-locked drawers, mechanical interlock („one at-a-time“ locking system)
- Ball-bearing precision slides
- Side and back panels with square perforation for assembly of accessories

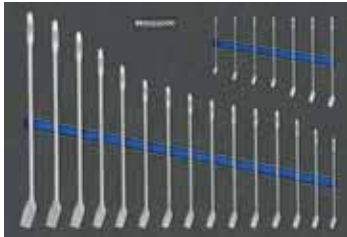
- With **284 high quality tools from MATADOR in 5 drawers** with two-colored MTS modules e.g.:
- Set of Spanners, different types, 6 - 23 mm
- Combination Ratchet Spanners 8 - 19 mm
- Socket Set with 6,3 mm (1/4") and 12,5 mm (1/2") drive, sockets 4 - 32 mm
- Slotted, PH and hex screws (e.g. 4 - 19 mm), XZN screws M5 - M16 (short and long type), RIBE® screws M5 - M16 (short type) and also TORX® screws E4 - E24 and T8 - T80 (from T20 short and long type)
- Tools set for spark plugs
- etc.



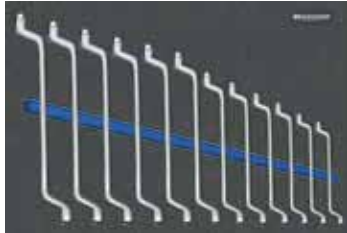
Art. Code	Icon	Weight (kg)	Quantity
8164 9525	284 MM 6	95	1
8164 9526	284 MM 12	95	1
8164 9527	284 AF 12	95	1



8164 Tool assortment VARIO „Truck“



~ 8164 3185



~ 8164 1200



~ 8164 1201 ~ 8164 1401 ~ 8164 1653
8164 1203 ~ 8164 1402 ~ 8164 1403



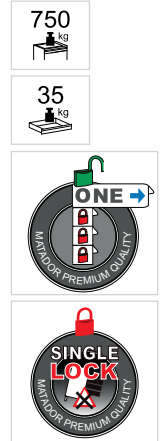
~ 8164 4078 ~ 8164 4092 ~ 8164 7481



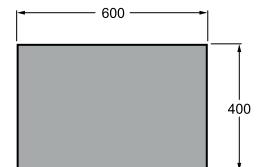
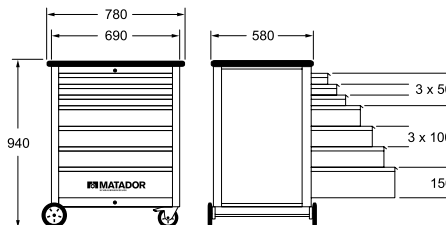
~ 8164 1500 ~ 8164 1504 ~ 8164 1775



~ 8164 1705



- Workshop trolley **VARIO with 7 drawers**
- Body made of high-quality steel sheet 1.75 mm reinforced frame
- ABS worktop with compartments for small parts, screwdriver holders and 2 handles
- Premium powder coating in silver-aluminium / black (RAL 9006 / 9005)
- Drawers: 3 x 50 mm, 3 x 100 mm, 1 x 150 mm, all drawers 100% extendable, loadable with 35 kg each
- 3-level locking system: central locking, single-locked drawers, mechanical interlock („one at-a-time“ locking system)
- Ball-bearing precision slides
- Side and back panels with square perforation for assembly of accessories
- With **259 high quality tools from MATADOR in 6 drawers** with two-colored MTS modules Trolley, e.g.:
 - Combination Spanners, angled, DIN 3113 A 6 - 34 mm
 - Double Ended Ring Spanners DIN 838 6 x 7 - 30 x 32 mm
 - Socket Set with 6,3 mm (1/4") and 12,5 mm (1/2") drive, sockets 4 - 32 mm
 - Screwdriver Sockets for slotted, PH and hex screws (e.g. 4 - 19 mm) and TORX® screws E4 - E24, T8 - T80 (from T20 short and long type)
 - Set of impact sockets (short type)
 - Screwdrivers with striking cap
 - Mechanic's Tools Kit XL
 - etc.



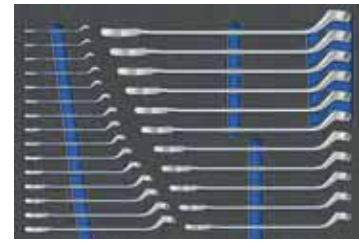
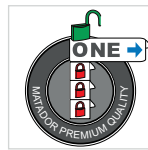
Art. Code	Icon	Unit	Weight (kg)	Quantity
8164 9530	259 MM 6	kg	96	1
8164 9531	259 MM 12	kg	96	1
8164 9532	259 AF 12	kg	96	1

8164 Tool assortment VARIO „Industrial“

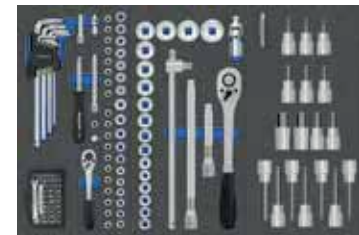


750
kg

35
kg



~ 8164 3190



~ 8164 1201 ~ 8164 1401 ~ 8164 4078
8164 1203 8164 1402 8164 1403



~ 8164 7475 ~ 8164 4671 ~ 8164 1775



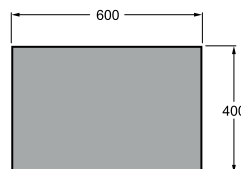
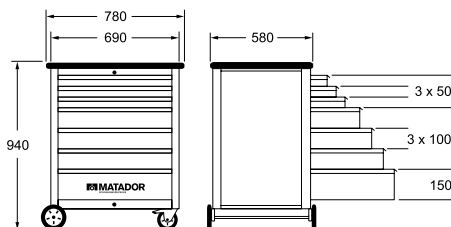
~ 8164 1500 ~ 8164 1615 ~ 8164 1653



~ 8164 1705

- Workshop trolley **VARIO with 7 drawers**
- Body made of high-quality steel sheet 1.75 mm reinforced frame
- ABS worktop with compartments for small parts, screwdriver holders and 2 handles
- Premium powder coating in silver-aluminium / black (RAL 9006 / 9005)
- Drawers: 3 x 50 mm, 3 x 100 mm, 1 x 150 mm, all drawers 100% extendable, loadable with 35 kg each
- 3-level locking system: central locking, single-locked drawers, mechanical interlock („one at-a-time“ locking system)
- Ball-bearing precision slides
- Side and back panels with square perforation for assembly of accessories

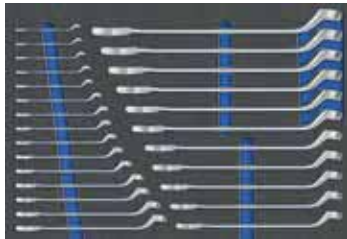
- With **226 high quality tools from MATADOR in 5 drawers** with two-colored MTS modules Trolley, e.g.:
- Combination Spanners, offset, DIN 3113 B 6 - 32 mm
- Socket Set with 6,3 mm (1/4") and 12,5 mm (1/2") drive, sockets 4 - 32 mm
- Screwdriver Sockets for slotted, PH and hex screws (e.g. 4 - 19 mm)
- Set of impact sockets (short type)
- Nut Drivers with T-Handle 8 - 10 - 13 mm
- Set of files
- Set of pliers
- Set of screwdrivers, also with striking cap
- Mechanic's Tools Kit XL
- etc.



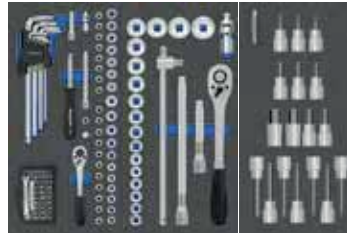
Art. Code	Lock System	Weight (kg)	Volume (l)
8164 9540	ONE	88	1
8164 9541	ONE	88	1
8164 9542	SINGLE LOCK	88	1



8164 Tool assortment VARIO „Industrial XL“



~ 8164 3190



~ 8164 1201 ~ 8164 1401 ~ 8164 4078
8164 1203 8164 1402 8164 1403



~ 8164 7475 ~ 8164 4671 ~ 8164 1775



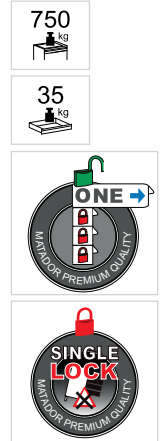
~ 8164 1500 ~ 8164 1615 ~ 8164 1653



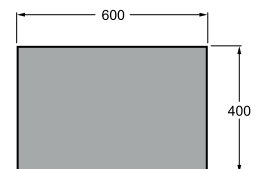
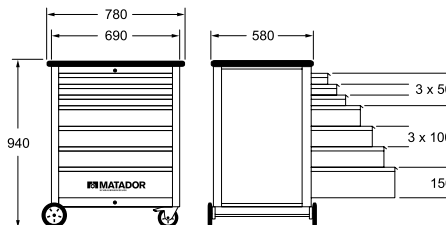
~ 8164 1705



~ 8164 1786



- Workshop trolley **VARIO with 7 drawers**
- Body made of high-quality steel sheet 1.75 mm reinforced frame
- ABS worktop with compartments for small parts, screwdriver holders and 2 handles
- Premium powder coating in silver-aluminium / black (RAL 9006 / 9005)
- Drawers: 3 x 50 mm, 3 x 100 mm, 1 x 150 mm, all drawers 100% extendable, loadable with 35 kg each
- 3-level locking system: central locking, single-locked drawers, mechanical interlock („one at-a-time“ locking system)
- Ball-bearing precision slides
- Side and back panels with square perforation for assembly of accessories
- With **237 high quality tools from MATADOR in 6 drawers** with two-colored MTS modules Trolley, e.g.:
 - Combination Spanners, offset, DIN 3113 B 6 - 32 mm
 - Socket Set with 6,3 mm (1/4") and 12,5 mm (1/2") drive, sockets 4 - 32 mm
 - Screwdriver Sockets for slotted, PH and hex screws (e.g. 4 - 19 mm)
 - Set of impact sockets (short type)
 - Nut Drivers with T-Handle 8 - 10 - 13 mm
 - Set of files
 - Set of pliers
 - Set of screwdrivers, also with striking cap
 - Mechanic's Tools Kit XL
 - Set of Cutting Tools
 - etc.



Art. Code	Icon	Unit	Weight (kg)	Volume (l)
8164 9545	237 MM 6	MM	88	1
8164 9546	237 MM 12	MM	88	1
8164 9547	237 AF 12	AF	88	1

Perfect order and organization.

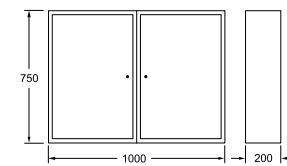
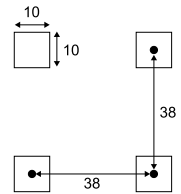
MATADOR tool panels with square perforation. We help you to clean up.



8151 Tool Cabinet

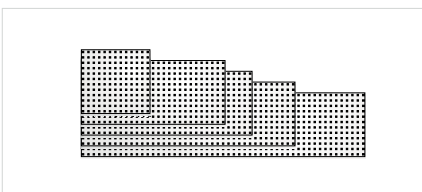


- Practical and robust tool cabinet, available in 2 optional color combinations
- With 2 lockable doors with cylinder lock incl. 2 keys
- Including 3 adjustable shelves
- Rear panel with square perforation



Art. Code	Color	Material	kg	Volume
8151 0010	Black	RAL 7035 / 9005	23	1
8151 0011	Blue	RAL 7035 / 5012	23	1

8136 Perforated Panels



- Powder coated perforated panels, all sides chamfered

- Made of 1.25 mm steel sheet, reinforced for high loading

Art. Code	mm	kg	Volume
8136 0500	500 x 450	2	1
8136 1000	1000 x 450	4	1
8136 1200	1200 x 450	5	1
8136 1500	1500 x 450	6	1
8136 2000	2000 x 450	8	1

Art. Code	mm	kg	Volume
8136 0501	500 x 450	2	1
8136 1001	1000 x 450	4	1
8136 1201	1200 x 450	5	1
8136 1501	1500 x 450	6	1
8136 2001	2000 x 450	8	1

Fully assembled - just start to work.

MATADOR workbenches and workstation systems.

High stability thanks to robust tubular steel frame, completely welded.



Worktop made of solid beech wood, glued, oiled for increased resistance to liquids, 40 mm thick.

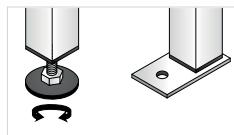
100% fully extendable drawers,



ball-bearing drawer runners, loadable with 35 kg.

Central locking on each side, locks „keyed to differ“ (each lock requires a separate key) or „keyed alike“ (locks can be locked with the same key), optional master key.

Feet with plastic glides with levelling screws, with ground attachment plates or with optional wheel set for a mobile workbench.



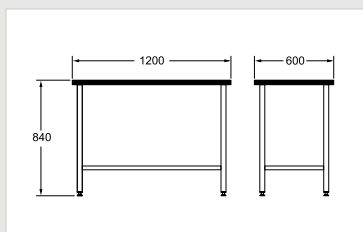
Powder coated body in light grey color (RAL 7035), doors / drawers in black (RAL 9005) or blue (RAL 5012).



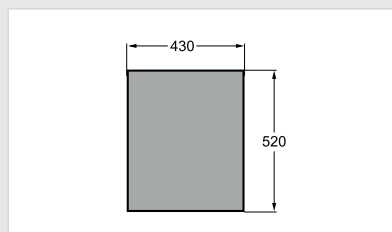
– Upgradable to a complete workplace system with optional perforated panels.



– Side panels with square perforation for accessories.



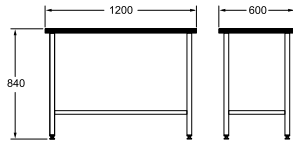
– Outside body dimensions



– Inside dimensions of drawers

8154 Workbench Basic Body

- Robust tubular steel frame
- All-round plate frame made of steel, high stability through welding of all steel parts, basic tubular steel frame 40 x 40 mm, struts 30 x 30 mm
- Multiplex beech worktop 40 mm, oiled
- Center strut ideal as footrest
- Feet with plastic glides and levelling screws

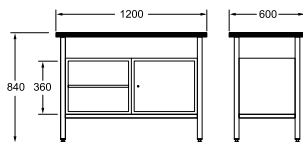


Art. Code			kg	
8154 0010	RAL 7035		35	1



8154 Workbench 1200 A

- Robust workbench, available in 2 optional color combinations
- 1 x open compartment with removable shelf, 1 x closed compartment with reinforced door and 2 removable shelves
- Multiplex beech worktop 40 mm, oiled
- Door lockable with cylinder lock incl. 2 keys
- Feet with plastic glides and levelling screws

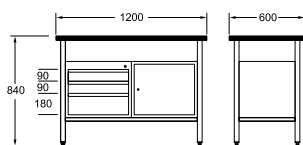


Art. Code			kg	
8154 0020		RAL 7035 / 9005	65	1
8154 0021		RAL 7035 / 5012	65	1



8154 Workbench 1200 B

- Robust workbench, available in 2 optional color combinations
- 1 side with 3 drawers including 2 x universally adjustable dividers for individual partition of drawers (3 length- and 3 crosswise dividers)
- 1 side with door with removable shelf
- Multiplex beech worktop 40 mm, oiled
- Door lockable with cylinder lock incl. 2 keys
- Feet with plastic glides and levelling screws

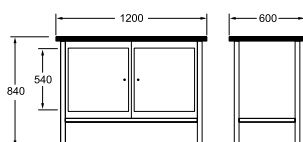


Art. Code			kg	
8154 0030		RAL 7035 / 9005	83	1
8154 0031		RAL 7035 / 5012	83	1



8154 Workbench 1200 C

- Robust workbench, available in 2 optional color combinations
- 2 x closed compartments with reinforced doors and 2 removable shelves
- Multiplex beech worktop 40 mm, oiled
- Doors lockable with cylinder lock incl. 2 keys
- Feet with plastic glides and levelling screws



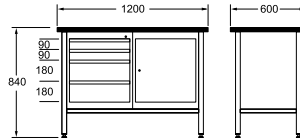
Art. Code			kg	
8154 0040		RAL 7035 / 9005	65	1
8154 0041		RAL 7035 / 5012	65	1



8154 Workbench 1200 D



- Robust workbench, available in 2 optional color combinations
- 1 side with 4 drawers including 2 x universally adjustable dividers for individual partition of drawers (3 length- and 3 crosswise dividers)
- 1 side with door and removable shelf



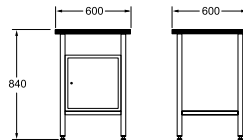
- Multiplex beech worktop 40 mm, oiled
- Door lockable with cylinder lock incl. 2 keys
- Feet with plastic glides and levelling screws

Art. Code	Color	RAL	kg	1
8154 0050	Black	RAL 7035 / 9005	65	1
8154 0051	Blue	RAL 7035 / 5012	65	1

8154 Workbench 600 A



- Robust workbench, available in 2 optional color combinations
- Multiplex beech worktop 40 mm, oiled
- 1 closed compartment with door and removable shelf



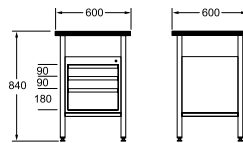
- Door lockable with cylinder lock incl. 2 keys
- Feet with plastic glides and levelling screws

Art. Code	Color	RAL	kg	1
8154 0060	Black	RAL 7035 / 9005	45	1
8154 0061	Blue	RAL 7035 / 5012	45	1

8154 Workbench 600 B



- Robust workbench, available in 2 optional color combinations
- 3 drawers including 2 x universally adjustable dividers for individual partition of drawers (3 length- and 3 crosswise dividers)



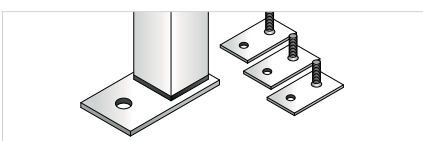
- Multiplex beech worktop 40 mm, oiled
- Feet with plastic glides and levelling screws

Art. Code	Color	RAL	kg	1
8154 0070	Black	RAL 7035 / 9005	50	1
8154 0071	Blue	RAL 7035 / 5012	50	1

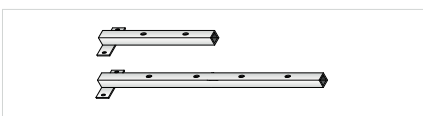
8154 Workbench Accessories



- Set of castor wheels, 2 of them with double stop
- Wheel diameter 100 mm
- 220 kg total capacity, ca. 100 kg payload
- Including fastening material
- Height of workbench with wheels: 980 mm



- Set of metal ground attachment plates for securing the workbench to the ground



- Set of panel holders for assembly of 1 or 2 perforated panels to the workbench

Art. Code	mm	g	1
8154 0095	100	1600	1

Art. Code	g	1
8154 0096	100	1

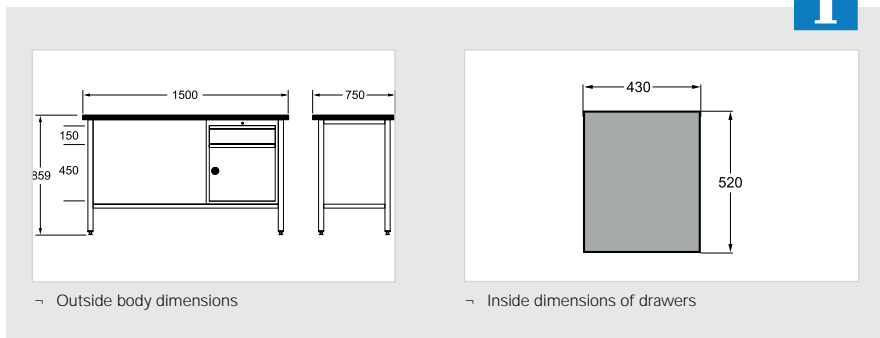
Art. Code	mm	g	1
8154 0097	320	500	1
8154 0098	750	1400	1

Fully assembled - just start to work.

MATADOR heavy workbenches. For industry, professional workshops and assembly.



- Upgradable to a complete workplace system with optional perforated panels.
- Side panels with square perforation for accessories.



Quality starts with the sheet thickness.

As with cars the torsion resistance of a workshop trolley is mainly determined by the thickness of the metal sheet.

As the sheet thickness cannot be seen at first glance many sellers save on the material and use only steel sheets with a thickness of 0.7-1.0 mm. The joy of the low price is only short-lived as loadability and lifetime are only moderate.

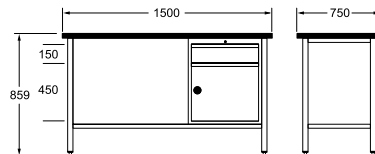
MATADOR workshop trolleys are, by contrast, made with a **sheet thickness of at least 1.2 mm**, when it comes to VARIO the thickness of the **top quality steel sheet is even 1.75 mm**. Thus the trolleys reach a **very high level of stability** and torsion resistance which you cannot only feel but even hear. No more shaking when closing the drawers, no creaking chassis when rolling - test yourself.

Trust the inner values and enjoy solid industrial quality.

8155 Heavy duty Workbench 1500 A



- Heavy duty workbench for professional work-shops, available in 2 optional color combinations
- All-round plate frame made of steel, high stability through welding of all steel parts, basic tubular steel frame 40 x 40 mm, struts 30 x 30 mm
- Multiplex beech worktop 40 mm, oiled
- 1 drawer (Drawing space 600 x 600 mm)
- 1 closed compartment with reinforced door and 2 removable shelves
- With cylinder lock incl. 2 keys



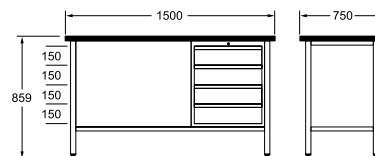
- Center strut ideal as footrest
- Feet with plastic glides and levelling screws

Art. Code	Color	RAL	kg	1
8155 0010	Black	RAL 7035 / 9005	65	1
8155 0011	Blue	RAL 7035 / 5012	65	1

8155 Heavy duty Workbench 1500 B



- Heavy duty workbench for professional work-shops, available in 2 optional color combinations
- All-round plate frame made of steel, high stability through welding of all steel parts, basic tubular steel frame 40 x 40 mm, struts 30 x 30 mm
- Multiplex beech worktop 40 mm, oiled
- 4 drawers (Drawing space 600 x 600 mm)
- With cylinder lock incl. 2 keys
- Center strut ideal as footrest
- Feet with plastic glides and levelling screws

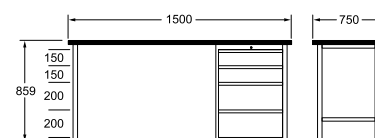


Art. Code	Color	RAL	kg	1
8155 0020	Black	RAL 7035 / 9005	65	1
8155 0021	Blue	RAL 7035 / 5012	65	1

8155 Heavy duty Workbench 1500 C



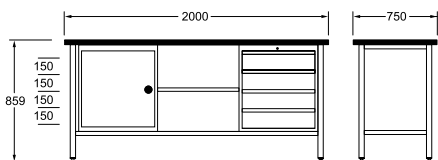
- Heavy duty workbench for professional work-shops, available in 2 optional color combinations
- All-round plate frame made of steel, high stability through welding of all steel parts, basic tubular steel frame 40 x 40 mm, struts 30 x 30 mm
- Multiplex beech worktop 40 mm, oiled
- 4 drawers (Drawing space 600 x 600 mm)
- With cylinder lock incl. 2 keys
- Center strut ideal as footrest
- Feet with plastic glides and levelling screws



Art. Code	Color	RAL	kg	1
8155 0030	Black	RAL 7035 / 9005	83	1
8155 0031	Blue	RAL 7035 / 5012	83	1

8155 Heavy duty Workbench 2000 XL

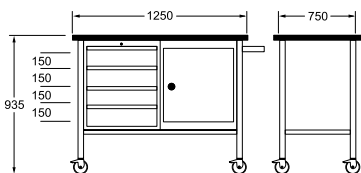
- Heavy duty workbench for professional workshops, available in 2 optional color combinations
- 2 optional colour combinations
- 1 closed compartment with reinforced doors and 2 removable shelves
- Empty case with removable shelf
- 4 drawers (Drawing space 600 x 600 mm)
- Multiplex work plate beech 40 mm, oiled
- Doors lockable with cylinder lock incl. 2 keys



Art. Code	Color	RAL	kg	Qty
8155 0040	Grey/Black	RAL 7035 / 9005	95	1
8155 0041	Grey/Blue	RAL 7035 / 5012	95	1

8156 Mobile Workbench

- Heavy duty workbench for professional workshops, available in 2 optional color combinations
- 3 optional colour combinations
- 1 closed compartment with reinforced doors and 2 removable shelves
- 4 drawers (drawer size 450 x 600 mm)
- Multiplex work plate beech 40 mm, oiled
- Doors lockable with cylinder lock incl. 2 keys
- Comfortable working height of 935 mm



Art. Code	Color	RAL	kg	Qty
8156 0010	Grey/Black	RAL 7035 / 9005	65	1
8156 0011	Grey/Blue	RAL 7035 / 5012	65	1
8156 0012	Black/Black	RAL 9005 / 9005	65	1

Content Tool Assortments.

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414	Rollbag TRUCK
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415	Tool case COW
416	Tool backpack MOVE
416	Tool case SOFT
417	Tool cases ABS
418	Tool case CADDY
419	Tool case CADDY with Tool Assortment UNIVERSAL XL
420	Tool case STEEL 3
421	Tool case STEEL 5
422	Tool Assortment MECHANICS M
423	Tool Assortment MECHANICS XL
424	Tool Assortment SANITARY M
425	Tool Assortment AUTOMOTIVE S
426	Tool Assortment AUTOMOTIVE L
427	Tool Assortment AUTOMOTIVE XL
428	Tool Assortment TRUCK L
429	Tool Assortment TRUCK XL
430	Tool Assortment VDE L
431	Tool Assortment VDE Extension





Tool Assortments.

Be a MATADOR.

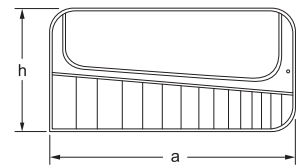
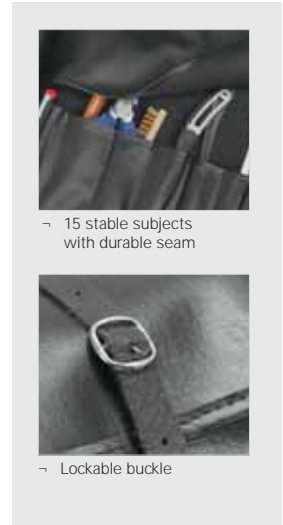
The space-saving solution.

Tools in rollbags. Small. Handy. Useful.

Made of robust synthetic leather.

With protection cap.

With 15 compartments.



8110 Rollbag AUTOMOTIVE



- Practical rollbag with 15 compartments, made of synthetic leather, black colour
- Optional with 20 pcs. repair service kit AUTOMOTIVE XS

Art. Code		h mm	a mm	g	
8110 0001	Rollbag AUTOMOTIVE empty	320	680	340	1
8110 8030	Rollbag with Tool Assortment AUTOMOTIVE XS, 20 pcs.	320	680	1800	1
Content	<ul style="list-style-type: none"> 0158 4 - 4,5 - 5 - 5,5 - 6 - 6,5 - 7 - 7,5 mm 0185 8 - 10 - 11 - 13 - 14 - 17 - 19 mm 0366 16 - 20,8 mm 0500 7" - 180 mm 0556 240 mm 0591 0 - 30 mm / 10" 0615 0,6 x 4,0 x 75 - 1,0 x 5,5 x 125 - 1,2 x 6,5 x 150 mm 0633 0655 PH 2 0705 300 g 0781 0825 				

8112 Rollbag TRUCK

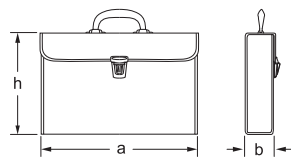
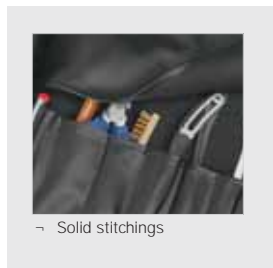


- Practical rollbag with 14 compartments, made of canvas, water resistant, black colour
- Optional with 25 pcs. repair service kit TRUCK S

Art. Code		h mm	a mm	g	
8112 0001	Rollbag TRUCK empty	600	730	300	1
8112 8041	Rollbag with Tool Assortment TRUCK S, 25 pcs.	600	730	2400	1
Content	<ul style="list-style-type: none"> 0100 6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 - 21 x 23 - 24 x 27 - 25 x 28 - 30 x 32 mm 0500 7" - 180 mm 0556 240 mm 0615 0,6 x 4,0 x 75 - 1,0 x 5,5 x 125 - 1,2 x 6,5 x 150 mm 0633 0655 PH 2 0969 1,2 x 6,5 PH 2 T20 - T30 - T40 - T45 				

8114 Tool bag COMPACT

- Toogle lock bag made of synthetic leather, black
- With 12 pockets
- Optional with Tool Assortment UNIVERSAL S, 27 pcs.



Art. Code	h mm	a mm	b mm	g											
8114 0001	220	340	50	1000	1										
8114 8010	220	340	50	3300	1										
Content: <table border="0" style="width: 100%;"> <tr> <td>0185 8 - 10 - 11 - 13 - 14 - 17 - 19 mm</td> <td>0615 0,6 x 4,0 x 75 - 1,0 x 5,5 x 125 - 1,2 x 6,5 x 150 mm</td> </tr> <tr> <td>0440 1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm</td> <td>0635 0,5 x 3,0 x 65 mm</td> </tr> <tr> <td>0500 7" - 180 mm</td> <td>0655 PH 1 - PH 2</td> </tr> <tr> <td>0556 240 mm</td> <td>0797 2 m</td> </tr> <tr> <td>0591 0 - 30 mm / 10"</td> <td>0705 300 g</td> </tr> </table>						0185 8 - 10 - 11 - 13 - 14 - 17 - 19 mm	0615 0,6 x 4,0 x 75 - 1,0 x 5,5 x 125 - 1,2 x 6,5 x 150 mm	0440 1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	0635 0,5 x 3,0 x 65 mm	0500 7" - 180 mm	0655 PH 1 - PH 2	0556 240 mm	0797 2 m	0591 0 - 30 mm / 10"	0705 300 g
0185 8 - 10 - 11 - 13 - 14 - 17 - 19 mm	0615 0,6 x 4,0 x 75 - 1,0 x 5,5 x 125 - 1,2 x 6,5 x 150 mm														
0440 1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	0635 0,5 x 3,0 x 65 mm														
0500 7" - 180 mm	0655 PH 1 - PH 2														
0556 240 mm	0797 2 m														
0591 0 - 30 mm / 10"	0705 300 g														

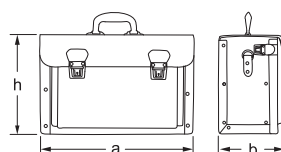


8115 Tool case COW

- Classic tool case for trainees and mechanics
- Carefully processed, made of strong cowhide
- Interior measurement: 420 x 250 x 160 mm



Tool Assortment MECHANICS M not included.



Art. Code	a mm	h mm	b mm	g	
8115 0001	455	305	195	2800	1
8115 0002				100	1

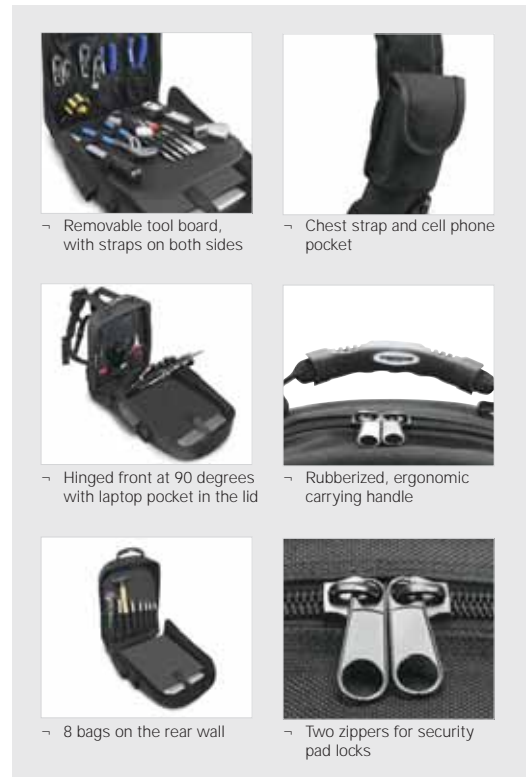


8120 Tool backpack MOVE



Art. Code	h mm	a mm	b mm	g	
8120 0001	430	350	230	2300	1

- Chest straps with cell phone pocket
- Max. load 12 kg

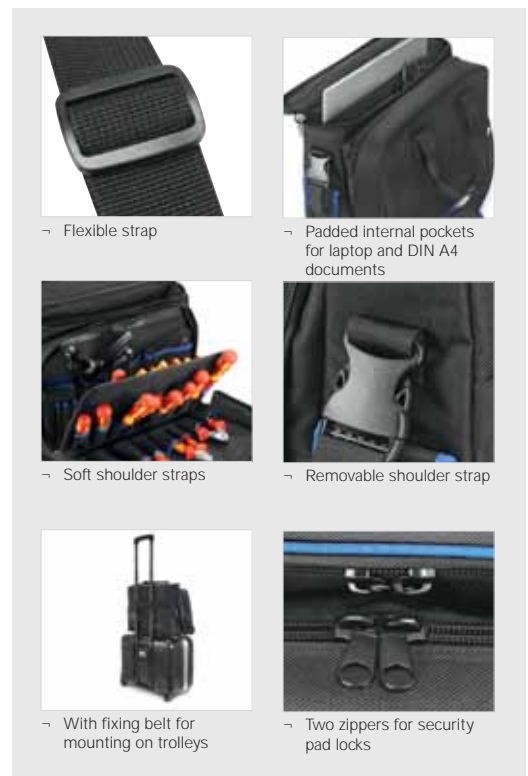


8125 Tool case SOFT



Art. Code	h mm	a mm	b mm	g	
8125 0001	350	430	230	2300	1

- Multifunctional technician tool case made of highly durable nylon



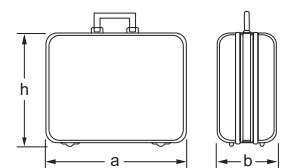
8130 Tool cases ABS

- Oil and water resistant
- Shock proof and extra large capacities



Art. Code	Volume l	Max. load kg	h mm	a mm	b mm	g	
8130 0001	26	25	390	500	190	4880	1
8130 0002	36	30	350	485	195	8000	1

Tools not supplied.



- Variable inserts for further separation



- 3-digit combination lock



- Two lockable clip locks



- Circumferential robust aluminium frame with shock edge protection



- Color-contrasting stitchings

Also as trolley available (8130 0002):



- 8130 0002 can be used as trolley



- Sturdy ergonomic handle



- Two in-line skate wheels

8132 Tool case CADDY

- Double walled case made of HDPE plastic
- Body case can be individually compartmentalised

Shock edge profile as cover and design element.



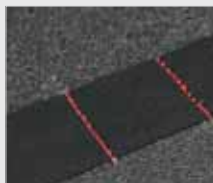
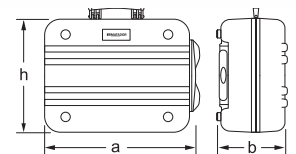
Aluminum frame, hardened and rigid.

2 tool panels with elastic bands and pocket.

One panel one-sided, one panel double-sided.

Tools not supplied.

Art. Code	Volume l	Max. load kg	h mm	a mm	b mm	g	1
8132 0001	40	30	370	485	190	8000	1



- Robust loops



- Snap-telescopic handle



- Large smooth-running transport wheels



- With 2 locks and 2 keys



- Adjustable belts



- With document pocket



- With 2 boxes for small parts



- Lockable with cliplocks



- Variable inserts for further separation



- Ergonomic handle



8132 Tool case CADDY with Tool Assortment UNIVERSAL XL

156



Art. Code	g	
8132 8014	14800	1
<p>Content</p> <ul style="list-style-type: none"> 0190 8 - 9 - 10 - 12 - 13 - 14 - 15 - 17 - 18 - 19 mm 0442 1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm 0500 7" - 180 mm 0530 8" - 200 mm 0556 240 mm 0615 5 x 100 - 6,5 x 150 mm 0640 6,5 x 25 mm 0641 PH 2 0655 PH 1 - PH 2 0705 400 g 0714 125 mm 0716 3 mm 0775 200 mm 5 pcs 0798 3 m 0826 180 mm 0843 210 mm 2140 46 pcs.: <ul style="list-style-type: none"> 2061 2064 115 mm 2065 50, 100 mm 2068 2073 150 mm 2075 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm 2076 4 - 7 x 32 mm 2077 PH 1 - PH 2 x 32 mm 2077 PZ 1 - PZ 2 x 32 mm 2078 3 - 4 - 5 - 6 - 8 x 32 mm 2090 E4 - E5 - E6 - E7 - E8 - E10 - E11 2092 T8 - T10 - T15 - T20 - T25 - T27 - T30 - T40 x 32 mm 2084 6,3 (1/4) - 6,3 (1/4) Bit 4135 40 pcs.: <ul style="list-style-type: none"> 4061 4065 125, 250 mm 4068 4075 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 27 - 30 - 32 mm 4084 12,5 (1/2) - 6,3 (1/4) Bit 4090 E10 - E12 - E14 - E16 - E18 - E20 - E22 - E24 4092 T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60 x 62 mm 7050 Bitbox in metal case, 31 pcs.: <ul style="list-style-type: none"> 7048 6,3 (1/4) - 6,3 (1/4) 60 mm 7026 3x 0,8 x 4,5 - 1,0 x 5,5 - 1,2 x 6,5 mm 7027 3x PH 1 - PH 2 - PH 3 7027 3x PZ 1 - PZ 2 - PZ 3 7028 3x 3 - 4 - 5 mm 7032 3x T10 - T15 - T20 - T25 - T30 - T40 		



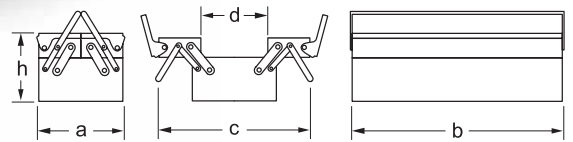
8170 Tool case STEEL 3

- In sheet steel, black-silver painted
- Ideal assistant for garden, home, garage and industry
- Well-ried and tested
- With 3 cases



Reversible handle.

2 side cases.



Art. Code	h mm	a mm	c mm	d mm	b mm	g	1
8170 0020	150	200	330	135	420	3000	1



- Solid construction in black-silver design



- Lockable with padlock



- Rounded handle edges



- Tried and tested quality



- With 3 or 5 compartments for different tools

8170



Art. Code	g	1																										
8170 8012	16500	1																										
Tool case STEEL 3 with Tool Assortment UNIVERSAL IM, 85 pcs.																												
Content	<table border="0"> <tr> <td> 0100 6x7 - 20x22 mm</td> <td> 0719/2</td> </tr> <tr> <td> 0200 6x7 - 20x22 mm</td> <td> 0745 250 mm</td> </tr> <tr> <td> 0440 1,5 - 10 mm</td> <td> 0760 13 x 0,05 - 1,00 mm</td> </tr> <tr> <td> 0500 7" - 180 mm</td> <td> 0775 250 mm</td> </tr> <tr> <td> 0530 7" - 180 mm</td> <td> 0782</td> </tr> <tr> <td> 0556 240 mm</td> <td> 0787</td> </tr> <tr> <td> 0578 - 0584 A2 - A21 - J2 - J21 mm</td> <td> 0840</td> </tr> <tr> <td> 0596 0 - 60 mm - 1.1/2"</td> <td> 0846</td> </tr> <tr> <td> 0615 5 x 100 - 6,5 x 150 mm</td> <td> 4061</td> </tr> <tr> <td> 0655 PH 1 - PH 2</td> <td> 4064</td> </tr> <tr> <td> 0660 3 x 100 mm</td> <td> 4065 125, 250 mm</td> </tr> <tr> <td> 0700 35 mm</td> <td> 4068</td> </tr> <tr> <td> 0705 400 g</td> <td> 4075 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 mm</td> </tr> </table>	0100 6x7 - 20x22 mm	0719/2	0200 6x7 - 20x22 mm	0745 250 mm	0440 1,5 - 10 mm	0760 13 x 0,05 - 1,00 mm	0500 7" - 180 mm	0775 250 mm	0530 7" - 180 mm	0782	0556 240 mm	0787	0578 - 0584 A2 - A21 - J2 - J21 mm	0840	0596 0 - 60 mm - 1.1/2"	0846	0615 5 x 100 - 6,5 x 150 mm	4061	0655 PH 1 - PH 2	4064	0660 3 x 100 mm	4065 125, 250 mm	0700 35 mm	4068	0705 400 g	4075 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 mm	
0100 6x7 - 20x22 mm	0719/2																											
0200 6x7 - 20x22 mm	0745 250 mm																											
0440 1,5 - 10 mm	0760 13 x 0,05 - 1,00 mm																											
0500 7" - 180 mm	0775 250 mm																											
0530 7" - 180 mm	0782																											
0556 240 mm	0787																											
0578 - 0584 A2 - A21 - J2 - J21 mm	0840																											
0596 0 - 60 mm - 1.1/2"	0846																											
0615 5 x 100 - 6,5 x 150 mm	4061																											
0655 PH 1 - PH 2	4064																											
0660 3 x 100 mm	4065 125, 250 mm																											
0700 35 mm	4068																											
0705 400 g	4075 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 mm																											

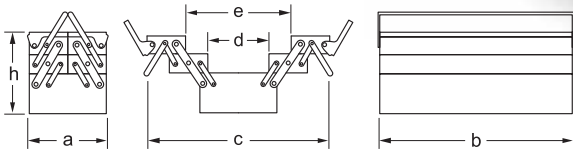
8175 Tool case STEEL 5

- In sheet steel, black-silver painted
- Ideal assistant for garden, home, garage and industry
- Well-tries and tested
- With 5 cases



Reversible handle.

4 side cases.



Art. Code	h mm	a mm	c mm	d mm	e mm	b mm	g	
8175 0020	200	200	460	135	265	520	5000	1

8175



Art. Code	g	
8175 8013	25500	1
Content		
<ul style="list-style-type: none"> 0100 6 x 7 - 27 x 32 mm 0200 6 x 7 - 30 x 32 mm 0440 1,5 - 10 mm 0500 7" - 180 mm 0530 7" - 180 mm 0556 240 mm 0425 240 mm 0596 0 - 60 mm - 1.1/2" 0615 5 - 6,5 - 8 - 10 mm 0633 0655 PH 1 - PH 2 - PH 3 0660 3 x 100 mm 0700 35 mm 0705 400 g 0718 3 - 4 - 5 mm 0719/2 0754 500 mm 0760 13 x 0,05 - 1,00 mm 0778 5 pcs. 	<ul style="list-style-type: none"> 0780 0781 0782 0783 0852 0786 0814 0825 0840 0842 0846 0860 4061 4064 4065 125 - 250 mm 4068 4075 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 mm 4081 16 - 20,8 mm 	



8022 Tool Assortment **MECHANICS M**



- Basic assortment for mechanics with the most important tools



Art. Code	g	
8022 0001	4500	1
Content		
	0185 8 - 10 - 11 - 13 - 14 - 15 - 17 - 19 - 22 mm	
	0442 1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	
	0500 7" / 180 mm	
	0532 6.1/4" / 160 mm	
	0556 240 mm	
	0591 10" / 250 mm	
	0615 0,8 x 5 x100 - 1,2 x 6,5 x 150 mm	
	0635 3 mm	
	0655 PH 1 - PH 2	
	0705 300 g	
	0714 200 mm	
	0717 120 x 4 x 10 mm	
	0718 3 - 4 - 5 - 6 mm	
	0775 250 mm	
	0787 250 mm	
	0798 3 m	
	0826 180 mm	
	0743 140 mm	
	7052 Bitbox	
	2062	
	7026 3 - 4 - 5 - 6 mm	
	7027 PH 1 - 2 x PH 2 - 2 x PH 3	
	7027 PZ 1 - PZ 2 - PZ 3	
	7028 3 - 4 - 5 - 6 mm	
	7032 T10 - T15 - T20 - T25 - T27 - T30 - T40	
	7033 T10 - T15 - T20 - T25 - T27 - T30 - T40	

Suitable tool bags and cases:



- 8115 0001



- 8120 0001



- 8125 0001



- 8130 0001



- 8130 0002



- 8132 0001



- 8170 0001



- 8175 0001



8024 Tool Assortment **MECHANICS XL**

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- Full assortment for mechanics with all major tools

Art. Code	g	
8024 0001	13700	1
Content		
	0190 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 17 - 19 - 22 - 24 - 27 - 30 - 32 mm	
	0442 1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	
	0444 T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50	
	0500 7" / 180 mm	
	0530 7" / 180 mm	
	0556 240 mm	
	0578 A2 - A21 - J2 - J21	
	0585 6.3/4" - 170 mm	
	0588 10" - 250 mm	
	0591 12" - 300 mm	
	0615 5 x 100 - 6,5 x 150 - 8 x 175 - 10 x 250 mm	
	0616 4 x 100 mm	
	0635 3 mm	
	0655 PH 1 - PH 2 - PH 3	
	0657 PZ 1 - PZ 3	
	0671 10 x 230 - 13 x 230 mm	
	0700 35 mm	
	0705 300 g - 500 g	
	0718 6 pcs.	
	0719 6 pcs.	
	0743 140 mm	
	0745 250 mm	
	0775 200 mm 5 pcs.	
	0782 290 x 40 mm	
	0784 1000 g	
	0786 440 mm	
	0798 5 m	
	0798 300 x 30 x 1,0 mm	
	0799 140 mm	
	0826 180 mm	
	0885	
	4114 23 pcs.:	
	4061	
	4064	
	4065 125, 250 mm	
	4068	
	4075 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 27 - 30 - 32 mm	
	7052 Bitbox	
	2062	
	7026 3 - 4 - 5 - 6 mm	
	7027 PH 1 - 2 x PH 2 - 2 x PH 3	
	7027 PZ 1 - PZ 2 - PZ 3	
	7028 3 - 4 - 5 - 6 mm	
	7032 T10 - T15 - T20 - T25 - T27 - T30 - T40	
	7033 T10 - T15 - T20 - T25 - T27 - T30 - T40	



- 8115 0001



- 8125 0001



Suitable tool bags and cases:



- 8130 0001



- 8130 0002



- 8132 0001



- 8175 0001



8062 Tool Assortment SANITARY M

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Suitable tool bags and cases:



~ 8125 0001



~ 8130 0001



~ 8130 0002



~ 8132 0001



~ 8175 0001



Art. Code	g	
8062 0001	11700	1
59 MM Tool Assortment SANITARY M, 59 pcs.		
	0100	6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 - 21 x 23 - 24 x 27 - 25 x 28 - 30 x 32 mm
	0442	1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10 mm
	0426	240 mm
	0532	6.1/4" - 160 mm
	0544	9" - 220 mm
	0556	240 mm
	0585	6.3/4" - 170 mm
	0588	7" - 175 mm
	0591	12" - 300 mm
	0596	1" - 1.1/2"
	0615	4 x 75 - 5 x 100 - 6.5 x 150 - 8 x 175 mm
	0635	6 - 24 V
	0650	PH 1 - PH 2
	0705	500 g
	0707	1500 g
	0717	120 x 4 x 10 mm
	0743	
	0745	250 mm
	0775	200 mm
	0782	290 x 40 mm
	0786	440 mm
	0788	200 mm
	0797	2 m
	0798	400 mm
	0810	5 - 35 mm / 1/8" - 1.3/8"
	0814	3 - 16 mm / 1/8" - 5/8"
	0825	
	0835	4 - 14 mm
	0846	240 mm
	0885	
	2000	3/8" - 1"
	4062	275 mm
	7110	
	7120	

8031 Tool Assortment AUTOMOTIVE S

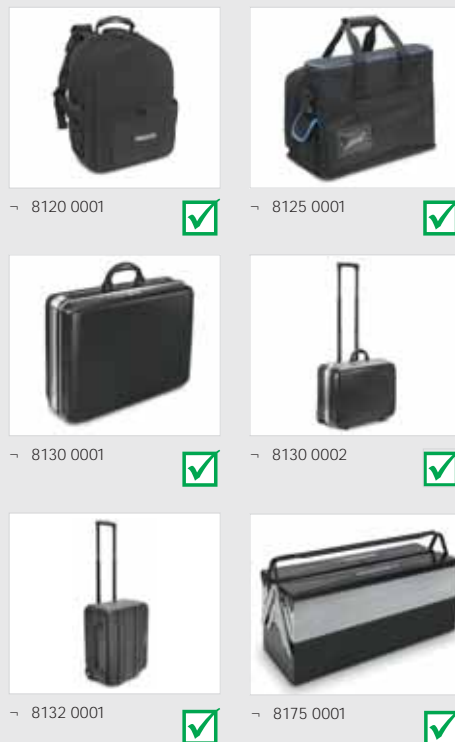
62



Art. Code	Icon	Unit	Description	Weight (g)	Quantity
8031 0001	62	MM	Tool Assortment AUTOMOTIVE S, 62 pcs.	9800	1
8031 0002	62	MM	Tool Assortment AUTOMOTIVE S, 62 pcs.	9800	1

	0100	6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 mm
	0158	4,0 - 4,5 - 5 - 5,5 - 6 - 6,5 - 7 - 7,5 mm
	0200	8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 mm
	0440	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm
	0500	7" - 180 mm
	0530	7" - 180 mm
	0556	240 mm
	0588	10" - 250 mm
	0615	4 x 75 - 6,5 x 150 - 8 x 175 mm
	0633	6 - 24 V
	0655	PH 2
	0705	500 g
	0714	150 mm
	0716	4 mm
	0717	120 x 5 x 12 mm
	0754	400 mm x 2
	4061	270 mm
	4064	300 mm
	4065	75 - 125 mm
	4068	
	4075	10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 - 22 - 24 - 27 - 30 - 32 mm
	4081	20,8 mm
	9060	120 pcs.
	7110	
	7120	

Suitable tool bags and cases:



8033 Tool Assortment AUTOMOTIVE L

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Suitable tool bags and cases:



~ 8125 0001



~ 8130 0001



~ 8130 0002



~ 8132 0001



~ 8175 0001

Art. Code	Icon	Unit	Weight (g)	Quantity
8033 0001	143	MM	14200	1
			0158	4,0 - 4,5 - 5 - 5,5 - 6 - 6,5 - 7 - 7,5 mm
			0183	8 - 10 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm
			0200	8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 - 21 x 23 - 24 x 27 mm
			0440	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm
			0500	7" - 180 mm
			0530	7" - 180 mm
			0556	240 mm
			0578	A1 - A2
			0580	A21
			0582	J1 - J2
			0584	J21
			0585	4" - 170 mm
			0588	10" - 250 mm
			0615	4 x 75 - 5,5 x 125 - 6,5 x 150 - 8 x 175 mm
			0633	6 - 24 V
			0640	4 x 25 mm
			0655	PH 1 - PH 2
			0641	PH 1
			0702	40 mm
			0705	500 g
			0718	3 - 4 - 5 - 6 - 8 mm
			0752	500 mm x 2
			0760	20 x 0,05 x 1,00 mm
			0778	200 mm 5 pcs.
			0788	150 mm
			0840	250 mm
			0852	225 mm
			4081	16 - 20,8 mm
			9060	120 pcs.
			2115	16 pcs.
			4114	23 pcs.
			4192	32 pcs.
			7110	
			7120	



8034 Tool Assortment AUTOMOTIVE XL

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Art. Code	g	1
8034 0001	21900	1
Inhalt		
	0158 4,0 - 4,5 - 5 - 5,5 - 6 - 6,5 - 7 - 7,5 mm	
	0183 8 - 10 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 22 - 24 - 27 mm	
	0200 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 - 21 x 23 - 24 x 27 mm	
	0250 10 x 11 mm	
	0350 17 x 19 x 21 x 1/2"	
	0426 240 mm	
	0428 80 - 130 mm	
	0442 1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	
	0444 T9 - T10 - T15 - T20 - T25 - T27 - T30 - T40 - T50	
	0500 7" - 180 mm	
	0530 7" - 180 mm	
	0556 240 mm	
	0568 205 mm	
	0578 A1 - A2	
	0580 A21	
	0582 J1 - J2	
	0584 J21	
	0585 6.3/4" - 170 mm	
	0587 0 - 30 mm	
	0588 10" - 250 mm	
	0615 0,8 x 4 x 75 - 1,0 x 5,5 x 125 - 1,2 x 65 x 150 - 8 x 175 mm	
	0633 6 - 24 V	
	0640 4 x 25 - 6,5 x 25 mm	
	0641 PH 1 - PH 2	
	0655 PH 1 - PH 2	
	0702 40 mm	
	0705 500 g - 800 g	
	0718 3 - 4 - 5 - 6 - 8 mm	
	0722 150 mm	
	0747 R - 250 mm	

	0752 500 mm x 2
	0760 20 x 0,05 x 1,00 mm
	0771 M3 - M24
	0778 200 mm 5 pcs.
	0781 150 mm
	0786 440 mm
	0788 150 mm
	0825
	0840 250 mm
	0843 210 mm
	0846 240 mm
	0852 225 mm
	0860 10 mm
	0863 500 mm
	0876 5 pcs.
	2140 46 pcs.
	4074 500 mm
	4078 9 pcs.
	4081 16 - 20,8 mm
	4135 40 pcs.
	6176 20 - 200 N-m
	7055 17 - 19 - 21 mm
	9060 120 pcs.
	7110
	7120



8053 Tool Assortment TRUCK L

95



Art. Code	g	1
8053 0001	17500	1
<p>Content</p> <ul style="list-style-type: none"> 0190 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 23 - 24 - 26 - 27 - 29 - 30 - 32 mm 0441 1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm 0530 8" - 200 mm 0554 240 mm 0588 10" - 250 mm 0591 12" - 300 mm 0596 2" - 560 mm 0600 7 x 125 - 10 x 175 mm 0633 6 - 24 V 0640 4 x 25 mm 0655 PH 1 - PH 2 0655 PH 2 0702 50 mm 0705 500 g 0714 200 mm 0715 250 mm 0717 120 x 4 x 10 mm 0718 4 - 5 - 6 mm 0754 500 mm 0760 20 x 0,05 - 1,00 mm 0775 200 mm 0782 290 x 40 mm 0784 1800 g 0786 300 x 13 x 0,6 mm 0788 250 mm 0798 3 m 0843 210 mm 0885 4114 23 pcs. 12,5 mm 1/2 4078 12 x 60 - 14 x 60 - 17 x 60 mm 12,5 mm 1/2 5060 500 mm 20 mm 3/4 5065 200 mm 20 mm 3/4 5075 27 - 30 - 32 - 36 - 38 mm 20 mm 3/4 7110 7120 		

Suitable tool bags and cases:



~ 8115 0001



~ 8120 0001



~ 8125 0001



~ 8130 0001



~ 8130 0002



~ 8132 0001



~ 8170 0001



~ 8175 0001



8054 Tool Assortment TRUCK XL

135



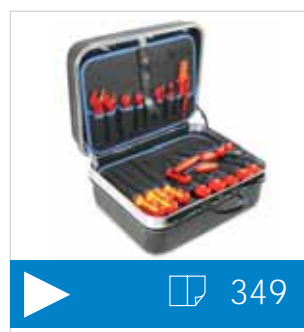
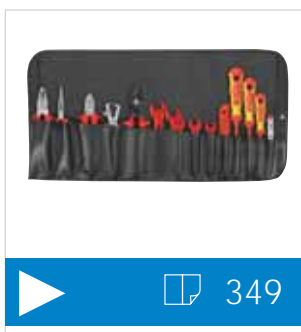
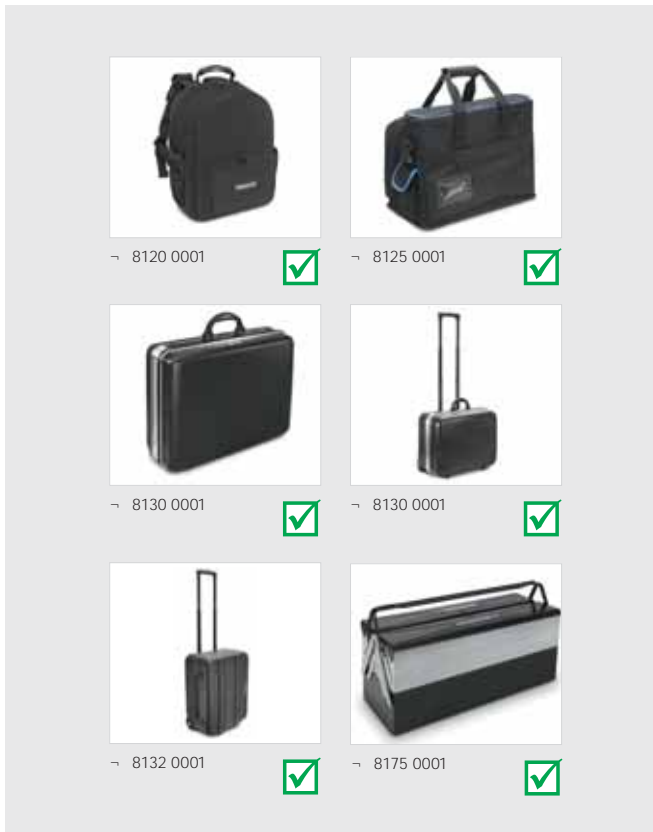
Art. Code	g	Box
8054 0001	25400	1
Content		
	0190 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 23 - 24 - 26 - 27 - 29 - 30 - 32 mm	
	0426 240 mm	
	0442 1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	
	0444 T10 - T15 - T20 - T25 - T27 - T30 - T40 T45 - T50	
	0500 8" - 205 mm	
	0530 8" - 200 mm	
	0556 240 mm	
	0568 205 mm	
	0570 330 mm	
	0578 A2	
	0580 A21	
	0582 J2 - J 21	
	0585 8" - 205 mm	
	0588 10" - 250 mm	
	0591 12" - 300 mm	
	0596 2" - 560 mm	
	0600 7 x 125 - 8 x 150 - 10 x 175 mm	
	0633 6 - 24 V	
	0640 4 x 25 mm	
	0655 PH 1 - PH 2 - PH 3 - PH 4	
	0641 PH 2	
	0700 35 mm	
	0702 50 mm	
	0705 200 g - 1500 g	
	0714 200 mm	
	0715 250 mm	
	0717 120 x 4 x 10 mm	

	0718 4 - 5 - 6 mm
	0753 500 mm
	0760 20 x 0,05 - 1,00 mm
	0778 200 mm 5 pcs.
	0782 290 x 40 mm
	0784 1800 g
	0786 300 x 13 x 0,6mm
	0788 250 mm
	0798 3 m
	0843 210 mm
	0885
	4114 23 pcs.
	4070 350 mm
	4078 5 x 60 - 6 x 60 - 7 x 60 - 8 x 60 - 10 x 60 - 12 x 60 - 14 x 60 - 17 x 60 mm
	5060 500 mm
	5064 500 mm
	5065 200 - 400 mm
	5068 115 mm
	5075 19 - 22 - 24 - 27 - 30 - 32 - 36 - 38 mm
	7110
	7120



8083 Tool Assortment VDE L

45



Art. Code	g	1
8083 0001	8500	1
Content	<ul style="list-style-type: none"> 0100 6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 mm 0145 5 x 5 - 5,5 x 5,5 - 6 x 6 - 7 x 7 - 8 x 8 - 9 x 9 - 10 x 10 - 11 x 11 mm 0442 1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm 0500 7" - 180 mm 0520 6.1/4" - 160 mm 0525 6.1/4" - 160 mm 0532 7" - 180 mm 0556 240 mm 0575 0,5 - 4,0 mm 0586 8" - 205 mm 0591 8" - 205 mm 0616 2,5 x 75 - 3,5 x 100 - 4,0 x 100 - 5,5 x 125 - 6,5 x 150 mm 0627 4 mm 0628 PH 1 - PH 2 0635 3 mm 0640 4 x 25 mm 0641 PH 1 0656 PH 0 - PH 1 - PH 2 0657 PZ 1 - PZ 2 0661 0,25 x 1,0 x 50 - 0,4 x 1,0 x 50 mm 0662 PH 0 - PH 1 0705 500 g 0707 1000 g 0714 150 - 200 mm 0717 120 x 4 x 10 mm 0743 0775 200 mm 0786 440 mm 0797 2 m 0798 5 m 0798 400 mm 0799 250 mm 0826 180 mm 0829 160 mm 0885 7110 7120 	



8084 Tool Assortment VDE Extension

19

Art. Code			g	
8084 0001	MM	Tool Assortment VDE Extension, 19 pcs.	4300	1
Content		0500 7" - 180 mm		
		0520 6.1/4" - 160 mm		
		0525 6.1/4" - 160 mm		
		0532 7" - 180 mm		
		0556 240 mm		
		0575 0.5 - 4.0 mm		
		0586 8" - 205 mm		
		0616 2,5 x 75 - 3,5 x 100 - 4,0 x 100 - 5,5 x 125 - 6,5 x 150 mm		
		0635 3 mm		
		0656 PH 0 - PH 1 - PH 2		
		0787 250 mm		
		0826 180 mm		
		0829 160 mm		



8090 Tool Assortment HOME

66

Art. Code			g	
8090 0001	MM	Tool Assortment HOME, 66 pcs.	5600	1
Content		0185 8 - 10 - 11 - 13 - 14 - 17 - 19 - 22 mm		
		0500 7" - 180 mm		
		0591 10" - 250 mm		
		0615 0,8 x 4 x 75 - 1,0 x 5,5 x 125 mm		
		0635 3 mm		
		0655 PH 1 - PH 2		
		0705 400 g		
		0784 270 g		
		0797 2 m		
		0827 18 mm		
		2155 47 pcs.		





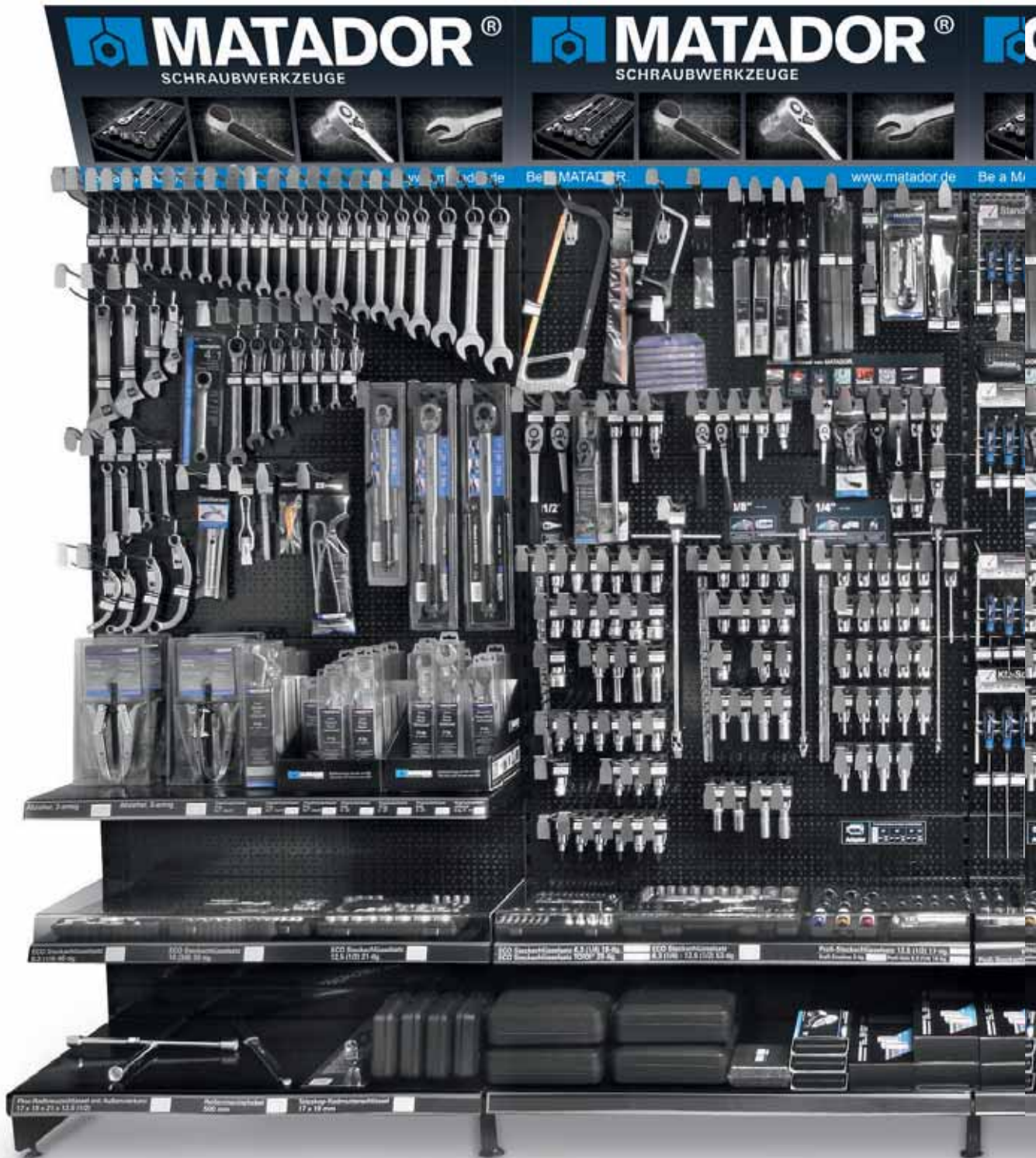


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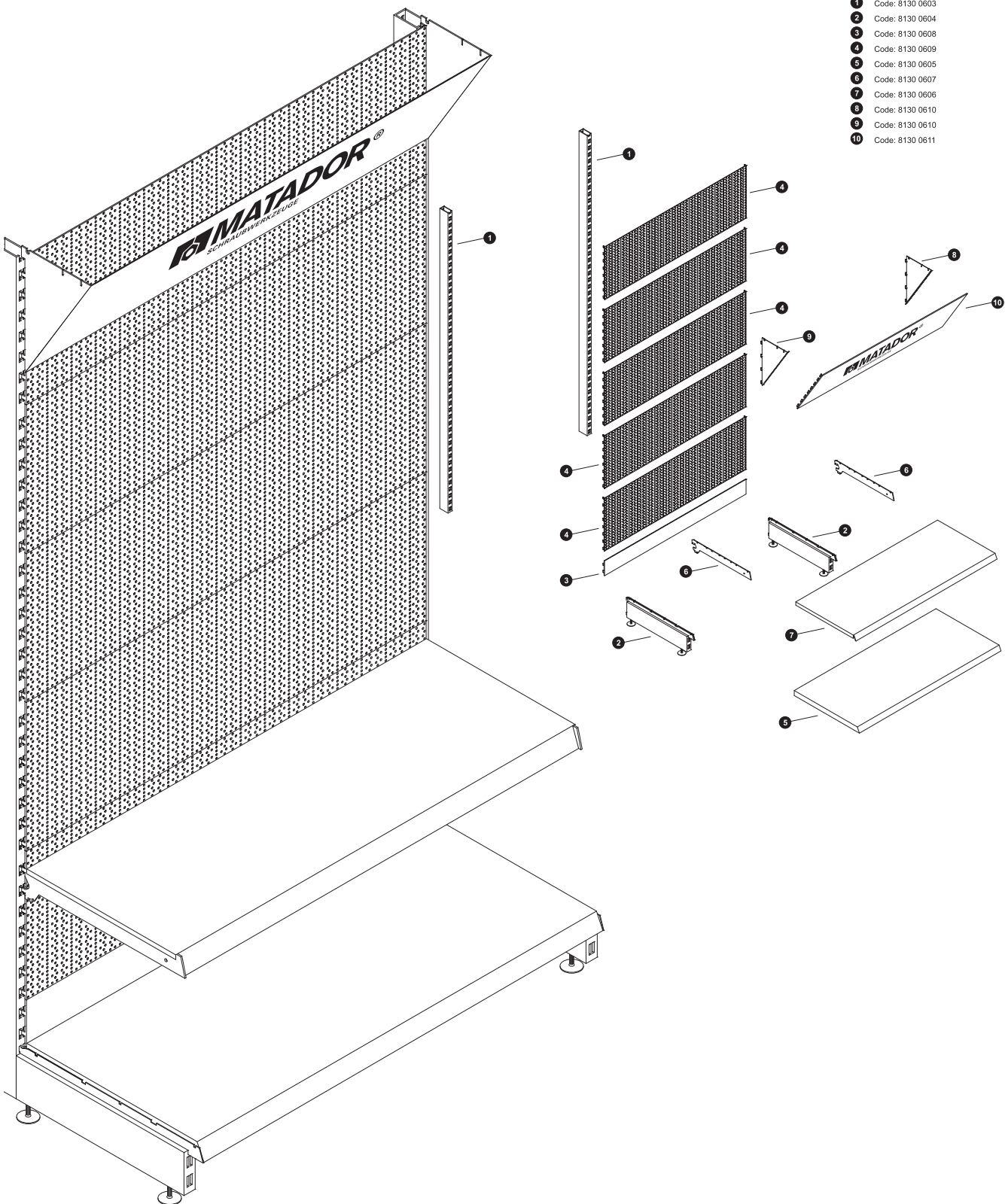


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8130 Tool Panels



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Metric Sizes										
openings	Thread Diameter									
	ISO R 272 1968		German standard DIN metrisch			Norwegian standard	French standard	Swedish standard		
	normal Hexagon	small Hexagon	normal Hexagon	small Hexagon	big Hexagon			metrisch	Whitworth	metrisch
mm										
2,5	1									
3			1,2+1,4							
3,2	1,6	1,6								
3,5		1,7								
4	2	2			1,7	2,5	2,3			
4,5		2,3			2		2,6			
5	2,5	2,5+2,6			2,3	3	3			
5,5	3	3			2,6					
6		3,5			3	3,5	3,5	3		
7	4	4			3,5	4+4,5	4	3,5		
8	5	5	6		4	5	5	4		
9					5	5,5	5			
10	6	6	8			6	6			
11	7	7			6+7		7	6		
12		8				7	8			
13	8	8	10						5/16	1/4
14	10				8	8	8			
15		(10)+					10		3/8	5/16
16						9				
17	10	12	10	12	9+10	10	10			
18							12		7/16	3/8
19	12	14	12	16	11	11				
20										
20,8	Spark plugs M 14									
21						12	14		1/2	7/16
22	14	16	14		12	12+14		12+14		
23						14				1/2
24	16	18	16	20			16		5/8	
25										
26	Spark plugs M 18									
27	18	20	18		16	16		18	16	
28									3/4	5/8
29						18				
30	20	22	20	24			20			
32	22	24	22		20	18+20	20	22	18+20	
33									7/8	3/4
34							24			

American Sizes										
openings	Thread Diameter									
	AF	mm	Bolts and Nuts according to SAE			USS	Americ. Standard			
			Bolts and Nuts according to	Head screws	Bolts and Nuts according to		Head screws			
1/8	3,175									
5/32	3,97					0+1				
3/16	4,76					2+3				
13/64	5,16									
7/32	5,56									
15/64	5,95									
1/4	6,35					4				
17/64	6,75									
9/32	7,14									
19/64	7,54									
5/16	7,94		1/8	1/8	5+6					
11/32	8,73					8				
3/8	9,52			3/16	10					
13/32	10,32									
7/16	11,11	1/4		1/4	12+14	1/4				
15/32	11,90									
1/2	12,70	5/16	1/4	5/16		5/16				
9/16	14,29	3/8		3/8	5/16	3/8				
19/32	15,08		5/16							
5/8	15,88	7/16		7/16	3/8	7/16				
11/16	17,46		3/8							
3/4	19,05	1/2		1/2	7/16	1/2				
25/32	19,84		7/16							
13/16	20,64			9/16	1/2	9/16				
7/8	22,22	9/16	1/2	5/8	9/16	5/8				
15/16	23,81	5/8								
31/32	24,61		9/16							
1	25,40	11/16		3/4	5/8	3/4				
1.1/16	26,99	3/4	5/8							
1.1/8	28,57			7/8	3/4	7/8				
1.3/16	30,16									
1.1/4	31,75	7/8	3/4	1						
1.5/16	33,34				7/8	1				

English Sizes						
Bolt Diameter			openings			
BSW big Hexagon BS 192	BSF und BSW small Hexagon BS 1083	W	mm	BA	decimal	mm
				10	.117	2,97
				9	.131	3,33
				8	.152	3,86
				7	.172	4,37
				6	.193	4,90
				5	.220	5,59
				4	.248	6,30
1/16=	3/32				.256	6,50
				3	.282	7,16
3/32=	1/8				.297	7,54
				2	.324	8,23
1/8=	3/16				.340	8,64
				1	.365	9,27
				0	.412	10,49
3/16=	1/4				.445	11,30
1/4=	5/16				.525	13,33
5/16=	3/8				.600	15,24
3/8=	7/16				.710	18,03
7/16=	1/2				.820	20,83
1/2=	9/16				.920	23,34
9/16=	5/8				1.010	25,65
5/8=	11/16				1.100	27,94
11/16=					1.200	30,48
3/4=	7/8				1.300	33,02



Metric Sizes											
openings mm	Thread Diameter										
	ISO R 272 1968		German standard DIN metrisch			Norwegian standard	French standard		Swedish standard		
	normal Hexagon	small Hexagon	normal Hexagon	small Hexagon	big Hexagon		metrisch	Whitworth	metrisch	Whitworth	Whitworth
35							22				
36	24	27	24	30	22	22+24			22+24		
37										1 7/8	
38							24				
41	27	30	27	M26x1,5	24	27		27			
42							27			1 1/8 1	
46	30	33	30	36	27	30	30	30			
47										1 1/4 1 1/8	
50	33	36	33			33	33	33			
52										1 3/8 1 1/4	
54							36				
55	36	39	36	42	36			36			
56										1 1/2 1 3/8	
58							39				
60	39	39			39			39	1 5/8	1 1/2	
63							42				
65	42	42	48	42				42	1 3/4	1 5/5	
67							45				
70	45	45			45			45	1 7/8	1 3/4	
71							48				
75	48	48	56	48				48	2	1 7/8	
77							52				
80	52	52			52			52		2	
82							56				
85	56	56			56			56		2 1/4	
88							60				
90	60	60			60			60			
94							64				
95	64	64			64			64		2 1/2	
100	68	68			68	68	68	68			
105	72	72			72	72	72	72		2 3/4	
110	76	76			76	76	76	76		3	
115	80	80			80			80			
116							80				
120	85	85			84			85		3 1/4	
130	90	90			89			90		3 1/2	
135	95	95			94			95		3 3/4	
145	100	100			99			100		4	
150	105	105			104			105			
155	110	110			109			110		4 1/4	

American Sizes						
openings	Thread Diameter					
	AF	mm	USS			Americ. Standard
			Bolts and Nuts according to SAE	Bolts and Nuts according to Head screws	Bolts and Nuts according to Head screws	
1 3/8	34,92			1 1/8		
1 7/16	36,51	1	7/8			
1 1/2	38,10			1 1/4	1	1 1/8
1 9/16	39,69					
1 5/8	41,28	1 1/8	1	1 3/8		
1 11/16	42,86				1 1/8	1 1/4
1 3/4	44,45					
1 13/16	46,04	1 1/4	1 1/8			
1 7/8	47,63		1 1/4			
2	50,80	1 3/8	1 1/4			
2 1/16	52,39				1 3/8	
2 3/16	55,56	1 1/2	1 3/8			
2 1/4	57,15				1 1/2	
2 3/8	60,32		1 1/2			
2 7/16	61,91				1 5/8	
2 9/16	65,09		1 5/8			
2 5/8	66,68				1 3/4	
2 3/4	69,85		1 3/4			
2 13/16	71,44				1 7/8	
2 15/16	74,61		1 7/8			
3	76,20				2	
3 1/8	79,38		2			
3 3/8	85,72				2 1/4	
3 3/8	88,90		2 1/4			
3 3/4	95,25				2 1/2	
3 7/8	98,42		2 1/2			
4 1/8	104,78				2 3/4	
4 1/4	107,95		2 3/4			
4 1/2	114,30				3	
4 5/8	117,48		3			
5	127,00		3 1/4			
5 3/8	136,52		3 1/2			
5 3/4	146,05		3 3/4			
6 1/8	155,57		4			

English Sizes				
Bolt Diameter			openings	
BSW big Hexagon BS 192	BSF und BSW small Hexagon BS 1083	BA	decimal	mm
13/16=	15/16		1.390	35,31
7/8=	1		1.480	37,59
15/16=	1 1/16		1.580	40,13
1=	1 1/8		1.580	42,42
1 1/8=	1 1/4		1.860	47,24
1 1/4=	1 3/8		2.050	52,07
1 3/8=	1 1/2		2.220	56,39
1 1/2=	1 5/8		2.410	61,21
1 5/8=	1 3/4		2.580	65,53
1 3/4=	2		2.760	70,10
2=	2 1/4		3.150	80,01
2 1/4=	2 1/2		3.550	90,17
2 1/2=	2 3/4		3.890	98,81
2 3/4=	3		4.180	106,17
3=	3 1/4		4.530	115,06
3 1/4=	3 1/2		4.850	123,19
3 1/2=	3 3/4		5.180	131,57
3 3/4=	4		5.550	140,92

Comparison table from slotted-head screws with recommendations for use for MATADOR Screwdriver Socket and -bits










Screws with metric threads						Wood screw Ø mm			Tapping screws Ø mm			Cutting dimension	MATADOR Screwdriver socket, bits			
A	B	C	D	E	F	G	H	I	J	K			2076	3076	4076	7026
DIN 84 7513	DIN 85	DIN 417, 427 438, 551 553, 926	DIN 927	DIN 963 7513	DIN 964 7513	DIN 95	DIN 96	DIN 97	DIN 7971	DIN 7972		DIN 7973				
M2			M3	M2	M2	2	2	2				0,5 x 3,0				
M2,5			M4	M2,5	M2,5	2,5	2,5	2,5	2,2		2,2	0,6 x 4,0	•			•
M2,5			M4				2,5					0,6 x 4,5				
												0,7 x 4,0				
M3	M3		M5	M3	M3	3	3	3	2,9		2,9	0,8 x 5,0				
M3 / M3,5	M3 / M3,5		M5	M3,5	M3,5	3,5	3,5	3,5	2,9			0,8 x 5,5	•			•
M4			M6	M4	M4	4		4	3,5		3,5	1,0 x 6,0				•
M4	M4		M6			4,5	4 / 4,5	4,5	3,9		3,9	1,0 x 7,0	•	•		•
M5	M5			M5	M5	5 / 5,5	5 / 5,5	5	4,2 / 4,8		4,2 / 4,8	1,2 x 8,0		•	•	•
M6				M6	M6	6	6	6	5,5		5,5 / 6,3	1,6 x 9,0		•		•
	M6								6,3		6,3	1,6 x 11,0			•	
M8				M8	M8	8	7	8				2,0 x 12,0			•	•
	M8						7					2,0 x 14,0				
M10				M10	M10							2,5 x 14,0				
M10					M10							2,5 x 16,0				

Comparison table from slotted-head screws with recommendations for use for MATADOR Screwdriver

Screws with metric threads						Wood screw Ø mm			Tapping screws Ø mm			Cutting dimension	MATADOR Screwdriver								
A	B	C	D	E	F	G	H	I	J	K			600	605	615	616	640	660	627	652	661
DIN 84 7513	DIN 85	DIN 417, 427 438, 551 553, 926	DIN 927	DIN 963 7513	DIN 964 7513	DIN 95	DIN 96	DIN 97	DIN 7971	DIN 7972		DIN 7973									
M1,6		M2,5 / M3	M2,5	M1,6	M1,6		1,6					0,4 x 2,5			•		•				•
M2			M3	M2	M2	2	2	2				0,5 x 3,0					•				•
M2			M3				2					0,5 x 3,5			•						
		M4				2,5		2,5	2,2	2,2	2,2	0,6 x 3,5	•								
M2,5			M4	M2,5	M2,5	2,5	2,5		2,2			0,6 x 4,0			•				•		
M2,5			M4				2,5					0,6 x 4,5	•								
		M5		M3		3	3	3		2,9	2,9	0,8 x 4,0					•	•			
				M3	M3	3	3				2,9	0,8 x 4,5									
M3	M3		M5		M3	3,5	3 / 3,5		2,9		2,9	0,8 x 5,0			•				•		
M3 / M3,5	M3 / M3,5		M5	M3,5	M3,5	3,5	3,5	3,5	2,9			0,8 x 5,5					•				
		M6		M4	M4	4	4	4		3,5 / 3,9	3,5	1,0 x 5,5	•	•	•						•
M4	M4		M6		M4	4 / 4,5	4 / 4,5	4,5	3,5 / 3,9		3,9	1,0 x 6,5									
		M8		M5		5	5	5	4,2	4,2	4,2	1,2 x 6,5			•	•	•				•
				M5	M5	5	5	5 / 5,5	4,2 / 4,8	4,8	4,2 / 4,8	1,2 x 7,0	•								
M5	M5			M5	5,5	5 / 5,5			4,2 / 4,8		4,8	1,2 x 8,0	•	•	•	•					•
M6	M6			M6	M6	6	6	6	5,5 / 6,3	6,3	6,3	1,6 x 10,0	•	•	•	•				•	•
M8	M8			M8	M8	8	7	8				2,0 x 12,0	•	•	•						•
M10				M10	M10							2,5 x 14,0	•	•							












+ Comparison table from cross-head screws* with recommendations for use for MATADOR Screwdriver inserts and -bits

Screws with metric threads			Wood screw Ø mm			Tapping screws Ø mm			cross recess size	MATADOR Screwdriver sockets, bits MATADOR Screwdriver												
A Countersunk-head screws	B Raised countersunk-head screw	C Oval-head screws	D Raised countersunk-head screw	E Half-round screw	F Countersunk-head screws	G Oval-head screws	H Countersunk-head screws	I Raised countersunk-head screw		PH	628	641	650	653	655	656	658	2077	3077	4077	7027	7034
 DIN 965	 DIN 966	 DIN 7985	 DIN 7995	 DIN 7996	 DIN 7997	 DIN 7981	 DIN 7982	 DIN 7983														
M1,6	M1,6	M1,6	2	2	2				0						•	•						
M2	M2	M2	2,5	2,5	2,5	2,2	2,2	2,2	1	•	•	•	•	•	•	•	•	•	•	•	•	•
M2,5	M2,5	M2,5	3	3	3	2,9	2,9	2,9	(01)													
M3	M3	M3																				
M3,5	M3,5	M3,5	3,5	3,5	3,5	3,5	3,5	3,5	2	•	•	•	•	•	•	•	•	•	•	•	•	•
M4	M4	M4	4	4	4	3,9	3,9	3,9	(02)													
M5	M5	M5	4,5	4,5	4,5	4,2	4,2	4,2														
			5	5	5	4,8	4,8	4,8														
M6	M6	M6	5,5	5,5	5,5	5,5	5,5	5,5	3	•		•	•	•	•	•	•	•	•	•	•	•
			6	6	6	6,3	6,3	6,3														
			7	7	7																	
M8	M8	M8	8	8	8				4	•		•	•			•				•	•	•
M10	M10	M10																				

* PHILLIPS-RECESS (cross recess according to DIN 7962, type H)

+ Comparison table from cross-head screws* with recommendations for use for MATADOR Screwdriver inserts and -bits

Screws with metric threads			Wood screw Ø mm			Tapping screws Ø mm			cross recess size	MATADOR Screwdriver sockets, bits MATADOR Screwdriver			
A Countersunk-head screws	B Raised countersunk-head screw	C Oval-head screws	D Raised countersunk-head screw	E Half-round screw	F Countersunk-head screws	G Oval-head screws	H Countersunk-head screws	I Raised countersunk-head screw		PZ	657	7027	7030
 DIN 965 7516	 DIN 966 7516	 DIN 7985 7516	 DIN 7995	 DIN 7996	 DIN 7997	 DIN 7981	 DIN 7982	 DIN 7983					
M1,6	M1,6	M1,6	2	2	2				0	•			
M2	M2	M2	2,5	2,5	2,5	2,2	2,2	2,2	1	•	•	•	•
M2,5	M2,5	M2,5	3	3	3	2,9	2,9	2,9	(01)				
M3	M3	M3											
M3,5	M3,5	M3,5	3,5	3,5	3,5	3,5	3,5	3,5	2	•	•	•	•
M4	M4	M4	4	4	4	3,9	3,9	3,9	(02)				
M5	M5	M5	4,5	4,5	4,5	4,2	4,2	4,2					
			5	5	5	4,8	4,8	4,8					
M6	M6	M6	5,5	5,5	5,5	5,5	5,5	5,5	3	•	•	•	•
			6	6	6	6,3	6,3	6,3					
			7	7	7								
M8	M8	M8	8	8	8				4	•	•	•	
M10	M10	M10											

* POZIDRIV (cross recess according to DIN 7962, type Z)

Comparison table from inside hexagon screws with recommendations for use for MATADOR Screwdriver Socket and -bits

Screws with metric threads

A Screw plugs
B Cylinder head screws
C Threaded pins
D Countersunk-head screws

A		B		C		D		MATADOR Screwdriver socket, bits MATADOR-Screwdriver										
DIN 906	DIN 908	DIN 912	DIN 7984	DIN 913, 914, 915, 916	DIN 7991	spanner opening mm	440	2078	3078	4078	7028	7032	441	445	442	4085		
		M1,6 / M2		M3		1,5	•									•		
		M2,5	M3	M4	M3	2	•						•	•	•			
		M3	M4	M5	M4	2,5	•						•		•			
		M4	M5	M6	M5	3	•	•			•	•	•	•	•			
						3,5	•											
M8		M5	M6	M8	M6	4	•	•	•	•	•	•	•	•	•			
						4,5	•											
M10	M10	M6	M8	M10	M8	5	•	•	•	•	•	•	•	•	•	•		
M12	M12 / M14	M8		M12 / M14	M10	6	•	•	•	•	•	•	•	•	•	•		
M14			M10			7	•	•	•	•								
M16 / M18	M16 / M18	M10	M12	M16	M12	8	•	•	•	•	•	•	•	•	•	•		
						9	•											
M20 / M22	M20 / M22	M12	M14	M18 / M20	M14 / M16	10	•	•	•	•		•	•	•	•			
M24 / M26 / M27	M24 / M26 / M27	M14	M16 / M18	M22 / M24	M18 / M20	12	•			•			•		•			
						12	•						•		•			
		M16 / M18	M20 / M22		M22 / M24	14	•		•				•					
M30 / M33	M30 / M33	M20 / M11	M24			17	•		•				•		•			
M36 / M38	M36 / M38		M24 / M27			19	•		•				•		•			
M42 / M45	M42 / M45	M30				22	•											
M48 / M52	M48 / M52	M33				24	•											
		M36				27	•											
						30	•											
M56		M42				32	•											
		M48				36	•											

Comparison table from Internal serrations XZN with recommendations for use for MATADOR Screwdriver sockets and bits

Screws with metric threads	Screwdriver sockets				Key Wrenches
	7029	7059	3079	4079	
	•				445
M5	•		•	•	•
M6	•		•	•	•
M8	•	•	•	•	•
M10	•	•	•	•	•
M12	•	•		•	•
M14	•			•	•
M16				•	

Comparison table from Internal serrations XZN with recommendations for use for MATADOR Screwdriver sockets and bits

Screws with metric threads	Screwdriver sockets		Key Wrenches
	4080	446	
M4		•	
M5	•	•	•
M6	•	•	•
M8	•	•	•
M10	•	•	•
M12	•	•	•
M14	•	•	•
M16	•	•	•
M18		•	

Comparison table from inside TORX® screws with recommendations for use for MATADOR Screwdriver Socket and -bits

Screws with metric threads							Tapping screws Ø mm				MATADOR Screwdriver socket, bits							MATADOR Screwdriver							
A Flat-head screws			E Cylinder head screws			H Oval-head screws																			
B Cylinder head screws			F Oval-head screws			I Countersunk-head screws																			
C Countersunk-head screws			G Countersunk-head screws			J Raised Countersunk-head screws																			
D Raised Countersunk-head screws																									
A	B	C	D	E	F	G	H	I	J	Größe	441	442	443	446	620	663	2092	3092	4092	7032	7035				
										mm															
-DIN 85	-DIN 912	-DIN 965	-DIN 966	-DIN 6912 7984	-DIN 7985	-DIN 7991	-DIN 7981	-DIN 7982	-DIN 7983																
Special screws										T6	1,70														
Special screws										T7	1,99														
	M2,5	M2,5	M2,5		M2,5		2,9	2,9	2,9	T8	2,31														
							2,9			T9	2,5														
M3	M3	M3	M3	M3	M3	M3	3,5	3,5	3,5	T10	2,74														
M3,5		M3,5	M3,5		M3,5		3,9	3,9	3,9	T15	3,27														
M4	M4	M4	M4	M4	M4	M4	4,2	4,2	4,2	T20	3,86														
M5	M5	M5	M5	M5	M5	M5	4,8 / 5,5	4,8 / 5,5	4,8 / 5,5	T25	4,43														
Special screws										T27	4,99														
M6	M6	M6	M6	M6	M6	M6	6,3	6,3	6,3	T30	5,52														
M8	M8	M8	M8	M8	M8	M8				T40	6,65														
Special screws										T45	7,82														
M10		M10	M10	M10	M10	M10	M10			T50	8,83														
M12			M12		M12					T55	11,22														
M14			M14							T60	13,25														

Newton-Meter N-m in/to Kilopond-Meter kpm (1 Nm = 0.102 kpm)

N-m	0	10	20	30	40	50	60	70	80	90
0	0.00	1.02	2.04	3.06	4.08	5.10	6.12	7.14	8.16	9.18
100	10.20	11.22	12.24	13.26	14.28	15.30	16.31	17.33	18.35	19.37
200	20.39	21.41	22.43	23.45	24.47	25.49	26.51	27.53	28.55	29.57
300	30.59	31.61	32.63	33.65	34.67	35.69	36.71	37.73	38.75	39.77
400	40.79	41.81	42.83	43.85	44.87	45.89	46.91	47.93	48.95	49.97
500	50.99	52.00	53.02	54.04	55.06	56.08	57.10	58.12	59.14	60.16
600	61.18	62.20	63.22	64.24	65.26	66.28	67.30	68.32	69.34	70.36
700	71.38	72.40	73.42	74.44	75.46	76.48	77.50	78.52	79.54	80.56
800	81.58	82.60	83.62	84.64	85.66	86.68	87.70	88.71	89.73	90.75
900	91.77	92.79	93.81	94.83	95.85	96.87	97.89	98.91	99.93	100.95
1000	101.97	102.99	104.01	105.03	106.05	107.07	108.09	109.11	110.13	111.15

Newton-Meter N-m in/to Foot-Pounds lbf.ft. (1 Nm = 0,738 lbf.ft.)

N-m	0	1	2	3	4	5	6	7	8	9
0	0	0.47	1.48	2.21	2.95	3.69	4.43	5.17	5.90	6.46
10	7.38	8.12	8.86	9.59	10.33	11.07	11.81	12.54	13.28	14.02
20	14.76	15.50	16.24	16.97	17.71	18.45	19.19	19.93	20.66	21.40
30	22.14	22.88	23.62	24.35	25.10	25.83	26.57	27.31	28.04	28.78
40	29.52	30.26	31.00	31.73	32.47	33.21	33.95	34.69	35.42	36.16
50	36.90	37.64	38.38	39.11	39.85	40.59	41.33	42.07	42.80	43.54
60	44.28	45.02	45.76	46.49	47.23	47.97	48.71	49.45	50.18	50.92
70	51.66	52.40	53.14	53.87	54.61	55.35	56.09	56.83	57.56	58.30
80	59.04	59.78	60.52	61.25	62.00	62.73	63.47	64.21	64.94	65.68
90	66.42	67.16	67.90	68.63	69.37	70.11	70.85	71.59	72.32	73.06
100	73.80	74.54	75.28	76.01	76.75	77.49	78.23	78.97	79.70	80.44

Foot-Pounds lbf.ft. in/to Newton-Meter N-m (1 lbf.ft. = 12 lbf.in. = 1.356 N-m)

ft.-lbs.	0	10	20	30	40	50	60	70	80	90
0	0	1.36	2.71	4.07	5.42	6.78	8.14	9.49	10.85	12.20
10	13.56	14.92	16.27	17.63	18.98	20.34	21.70	23.05	24.41	25.76
20	27.12	28.48	29.83	31.19	32.54	33.90	35.26	36.61	37.97	39.32
30	40.68	42.04	43.39	44.75	46.1	47.46	48.82	50.17	51.53	52.88
40	54.24	55.60	56.95	58.31	59.66	61.02	62.38	63.73	65.09	66.44
50	67.80	69.16	70.51	71.87	73.22	74.58	75.94	77.29	78.65	80.00
60	81.36	82.72	84.07	85.43	86.78	88.14	89.50	90.85	92.21	93.56
70	94.92	96.28	97.63	98.99	100.34	101.70	103.06	104.41	105.77	107.12
80	108.48	109.84	111.19	112.55	113.90	115.26	116.62	117.97	119.33	120.68
90	122.04	123.40	124.75	126.11	127.46	128.82	130.18	131.53	132.89	134.24
100	135.60	136.96	138.31	139.67	141.02	142.38	143.74	145.09	146.45	147.80

Torque Reduction Factors (conversion rates)

performed measurement x factor = required measurement

performed measurement	required measurement					
	= Ncm	= Nm	= kpcm	= kpm	= lbf.in.	= lbf.ft.
Ncm	1	0,01	0,10197	0,00102	0,0885	0,00738
Nm	100	1	10,197	0,10197	8,851	0,7376
kpcm	9,807	0,9807	1	0,01	0,868	0,0723
kpm	980,7	9,807	100	1	86,796	7,233
lbf.in.	11,298	0,11298	1,152	0,01152	1	0,0833
lbf.ft.	135,58	1,3558	13,825	0,13825	12	1

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Terms and Conditions

General Terms and Conditions of MATADOR GmbH & Co. KG

§ 1 Scope

1. Our General Terms and Conditions are exclusively valid. We do not accept any regulations to the contrary or regulations that differ from our terms and conditions, unless we expressly agreed to them in written form. Our General Terms and Conditions are even valid if we execute orders without reservation despite being aware of alternative conditions on the part of the customer. All present and future business connections to the customer are subject to our General Terms and Conditions.
2. All agreements between the customer and us with regard to the execution of this contract are put into writing in this contract.
3. Our General Terms and Conditions are only valid for contracts with entrepreneurs in terms of § 310 German Civil Code.

§ 2 Quotations and Conclusion of the Contract

1. All quotations are without engagement regarding prices and possibilities for delivery.
2. All orders are only to be regarded as accepted after we have given our confirmation in written form. The same applies to additions and changes of orders.
3. The details, drawings, illustrations and performance descriptions contained in brochures, catalogues, price lists or other documentations that are part of a quotation are without engagement unless we expressly refer to them as being binding in our order confirmation.
4. All the documents mentioned are subject to our copyright. 5. The conclusion of the contract is effective subject to our timely and correct provision by our suppliers. The customer will immediately be informed about the default and payments already made will be refunded.

§ 3 Custom-made products

1. If we deliver articles that are made to customer's specifications the customer is responsible for ensuring that industrial property rights of third parties are protected. The customer is responsible for the correctness of the contents, their technical practicability and completeness.
2. In case of custom-made products we reserve the right to increase or reduce the quantity delivered by up to 10%. In case of especially manufactured articles we cannot accept a withdrawal from the contract or a return of the custom-made articles by the customer.

§ 4 Prices, Minimum Order Value / Handling Fee

1. Our prices are quoted in € and ex works unless stated differently in our order confirmation. They do not include packaging, freight, insurance, customs and other charges. They are invoiced separately.
2. Our prices are quoted exclusive of VAT. VAT is shown separately in the invoice.
3. The prices quoted are based on the production costs that apply at the date of the quotation. In the case of an increase in production costs due to a general increase in wage, material or other production costs we have to reserve the right to change the prices that apply at the date of the delivery unless fixed prices are expressly agreed upon.
4. The minimum order value is € 50 net. For orders with a value of less than € 50 we charge a handling fee of € 7.50 plus VAT and postal charges.

§ 5 Payment

1. For payments within 10 days following the date of the invoice we grant a cash discount of 2% on the value of the goods. Payments within 30 days can only be accepted net.
2. Note charges and discount charges will be paid by the customer and are to be settled immediately.
3. In case of delayed payment we have to reserve the right to charge interests for delay on the basis of the interest rate valid at that time.

4. In case of delayed payment, incoming note protests or a considerable aggravation of the financial circumstances on the part of the customer we are entitled to demand other securities for current contracts or to cancel the contract. Moreover we reserve the right to render further services only on the basis of advance payment and to demand immediate payment of acceptances, bills of exchange or checks.

§ 6 Delivery Period

1. Delivery dates are to be regarded as approximately agreed upon unless a fixed date is stipulated.
2. In case of subsequent modifications of the contract by the customer that influence the delivery period, this period may change to an appropriate extent.
3. Delays in delivery or service that can not be attributed to us entitle us to postpone delivery by the duration of the obstruction. This is especially valid in case of force majeure, strike, lock-out, official directive etc.

§ 7 Delivery

1. Domestic deliveries are made ex works when the order value is below € 150. Deliveries by mail are also made ex works.
2. Export shipments are normally made free border or FOB German port respectively, packing included.
3. All deliveries are always made for the account and at the risk of the customer. MATADOR will not be responsible for any losses or damage that occur during transport.
4. Packing will be charged at cost price and is non-returnable. The customer bears the disposal costs.

§ 8 Notice of Defect

The notice of defect has to be sent to us immediately in written form and not later than 5 days after receipt of the goods.

§ 9 Warranty

1. For damage due to improper use, incorrect assembly / operation or modification of the goods delivered, wear and tear or incorrect handling we cannot assume liability.
2. If the goods delivered are defective or lack guaranteed characteristics we commit ourselves - at our own choice and excluding further warranties for defect - to repair or to replace the imperfect goods.
3. The customer has to inform us about defects immediately and in written form. In case of noticeable defects we have to be notified within five days after receipt of the goods, in case of hidden defects we have to be informed immediately after they have been discovered.
4. The manufacturer's product description solely specifies the good's characteristics. Additional comments made in public are not part of the contractual product description.
5. Warranty claims and claims for compensation due to consequential harm caused by a defect become time-barred after one year following delivery of the goods.

§ 10 Guarantee

All tools are subject to a full guarantee. We will replace every tool free of charge that has become unusable due to faulty workmanship or material. If testing in our plant, however, shows that the tools have been handled in an improper way, that their measurements have been changed or that their defects are due to wear and tear they cannot not be replaced free of charge. Rejected items are to be returned.

§ 11 Overall Commitment

1. In case of negligent violation of essential contractual obligations our liability is limited to the - according to the kind of good - predictable and typical average damage. In case of negligent violation of insignificant contractual obligations our liability is excluded. Warranty claims are not affected by this

regulation. Moreover the limitation of our liability is not valid for damage caused to the customer's health that can be attributed to us.

2. Claims for damage due to defects become time-barred after one year following delivery of the goods. Again this does not apply in case of gross negligence on our part or in case of damage caused to the customer's health that can be attributed to us.

§ 12 Return of Goods

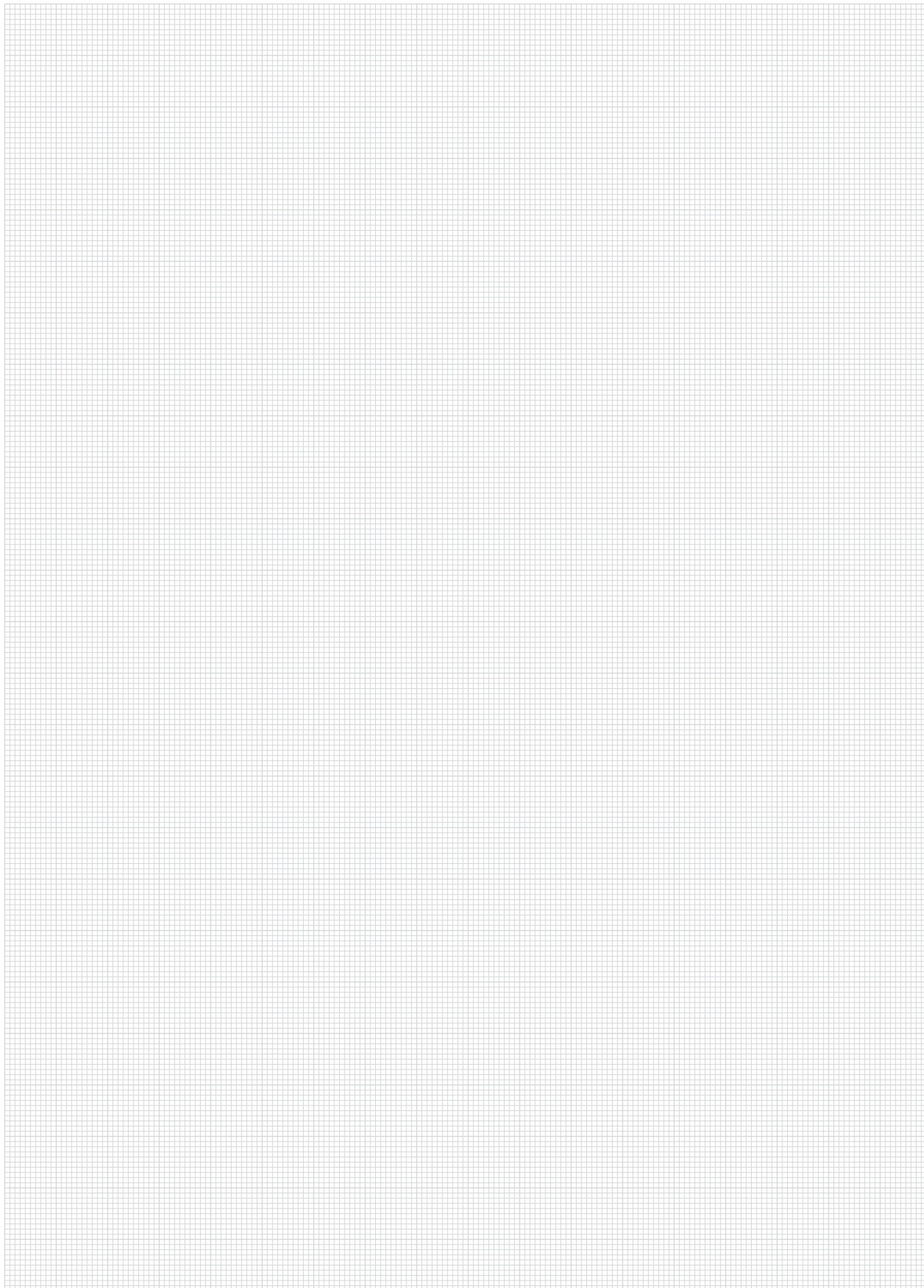
1. Basically, returns of goods are only possible after prior accord or after we have given our approval. We cannot accept returns that are made without our prior approval. 2. In any case goods have to be returned carriage paid. 3. We will charge a handling fee of 20% of the value of the goods.

§ 13 Reservation of Property Rights

1. Until the total claim resulting from the business connection will have completely been paid the goods remain our property. Acceptances, bills of exchange and checks are only to be regarded as payment after being honoured.
2. In case of a delay in payment or financial collapse we are entitled to demand the immediate handing over of the goods subject to our property rights. All fixed-term claims towards the customer become immediately due. Irrespective of their maturity date bills of exchange are to be honoured immediately.
3. The customer commits himself / herself to treat the goods subject to our property rights carefully and to insure them adequately.
4. Distraints of the goods subject to our property rights have to be reported to us immediately and the bailiff's return has to be enclosed.
5. The customer has the goods subject to our property rights at his / her disposal within the scope of ordinary business. After having suspended payment it is not permitted to mortgage, resell or assign the goods subject to our property rights as securities. If the customer sells the goods subject to our property rights on credit the title to claims that arises is to be regarded as immediately transferred to us. The customer is authorized to receive the payments out of this resale as long as this is not prohibited by us due to delays in payment or a financial collapse on the part of the customer. In this case the debtor has to deliver a declaration of transfer in duplicate about each claim on request.
6. If the article bought from MATADOR is compounded with other articles that are not part of our property we acquire joint ownership of the product in proportion to the other articles used.

§ 14 Place of Performance, Jurisdiction, Applicable Law, Partial Invalidation

1. Place of delivery and payment is Remscheid. The general place of jurisdiction for disputes of all kinds related to the contract is the Local Court in Remscheid or the Regional Court in Wuppertal. Priority is to be given to the regulations of § 38 ZPO. The contractual relationship is subject to German law excluding the regulations of the United Nations Convention on Contracts for the International Sale of Goods.
2. Should any regulation of these General Terms and Conditions be or become partly or fully ineffective or void this does not affect the validity of the other regulations. The ineffective regulation will be replaced



Technical Symbols.

General article data:							
	Article-Code (code number)		Internal hex drive		Tolerance 3% to DIN EN ISO 6789		Tolerance 4% to DIN EN ISO 6789
	Length		Internal hex drive		Tolerance 5% to DIN EN ISO 6789		Tolerance 6% to DIN EN ISO 6789
	Height		Internal bi-hexagon		Certificate to DIN EN ISO 6789		Weight torque multipliers
	depth		External hex drive		Power transmission (Ratio)	Pneumatic-Tools:	
	Outside diameter		External drive 6.3 mm (1/4")		Recommended internal tube diameter		Operating pressure
	Weight		External drive 8 mm (5/16")		Air consumption		Filter
	Pack unit		External drive 11 mm (7/16")		Oiler		Internal thread
	Additional information		Internal drive 6.3 mm (1/4")		External thread		Length locking pin
Screw profile:			Internal drive 8 mm (5/16")		Pin		Rubber ring
	Slot		Internal drive 11 mm (7/16")		Maximum loosening torque		Maximum torque
	Phillips / Cross recess (PH)	Spanners:			Recommended torque		Sound pressure level
	Pozi driv (PZ)		Key width in millimeters		Idle speed		Diameter blind rivet
	Hex		Wrench size in Zoll (AF")		Pulling force	Screwdriver:	
	Internal serrations (XZN)		Wrench size mouth		Blade / Cutting edge width		Blade thickness
	Multi-spline RIBE®		Wrench size ring		Blade length		Handle length
	Internal-TORX®		SmartDrive-Profil		Total length		Blade length
	Internal-TORX® with pin (Tampor Resistant)		Set 4-pieces		Total length		Handle length
	External-TORX®		Screw size		2 components handle		VDE Test Symbol (Tools)
	5-Star / IP-Profile		Nut size		GS Seal of tested quality		For working in voltage areas up to 1000 V
Drives for sockets and bits:			Scale				
	External square drive	Sockets:					
	External square drive 6.3 mm (1/4")		Number of teeth Knarrengetriebe				
	External square drive 10 mm (3/8")		36 Teeth				
	External square drive 12.5 mm (1/2")		48 Teeth				
	External square drive 20 mm (3/4")		60 Teeth				
	External square drive 25 mm (1")		72 Teeth				
	External square drive 40 mm (1.1/2")		Square drive				
	External square drive 63 mm (2.1/2")	Torque-technology:					
	Internal square drive		Indicating torque wrench				
	Internal square drive 6.3 mm (1/4")		Triggering torque wrench				
	Internal square drive 10 mm (3/8")		With PC interface				
	Internal square drive 12.5 mm (1/2")		With rotation angle measurement				
	Internal square drive 20 mm (3/4")		Gradation of the scale				
	Internal square drive 25 mm (1")		With calibration certifikat according to DIN EN ISO 6789				
	Internal square drive 40 mm (1.1/2")		Torque range from... till...				
	Internal square drive 63 mm (2.1/2")		Input torque from...				
	External rectangle drive		Output torque from...				
	Internal rectangle drive		Operating instructions				
	Internal rectangle drive 9 x 12 mm		Tolerance to DIN EN ISO 6789				
	Internal rectangle drive 14 x 18 mm		Tolerance 1% to DIN EN ISO 6789				
			Tolerance 2% to DIN EN ISO 6789				



Pliers:		Miscellaneous tools:		Lamps:	
	Pliers cutting edge piano wire		Hammer head		High End LED
	Pliers cutting edge hard wire		Wire thickness FE		High End Cree LED
	Pliers cutting edge medium-hard wire		Wire thickness VA		Lumen
	Pliers cutting edge softwire		Thickness		Fix focused lens
	Pliers cutting edge tube		Cartridge		Operating times in hours
	Pliers cutting edge round steel		Lifting capacity		Waterproof according to IP 54
	Pliers cutting edge cable		Square flatter		Waterproof according to IP 67
	Maximum cable cross-section		Chisel 8-kant		Supply 2 batteries LR14 (Baby), 1.5 volts
	Minimum cable cross-section		Width flat chisel		Supply 3 batteries LR14 (Baby), 1.5 volts
	Pliers cutting edge wire rope		Chisel width		Supply 3 batteries LR14 (Baby), 4.5 volts
	Jaw form		File profile flat		Lamp diameter
	Flat round jaws		File profile three-edged		Length
	Flat jaws		File profile round		
	Concave jaws		File profile square		
	V-shaped jaws		File profile half-round		
	Round jaws		External puller width		
	Jaw form angle		Internal puller width		
	Pliers cutting edge material thickness		Puller height		
	Pliers cutting edge engineering steel	Trolleys and accessories:			
	Pliers cutting edge stainless steel		Suitable for Quadro		
	Jaw form range		Suitable for Ratio		
	Jaw form range		Suitable for Vario		
	Jaw form range		1/3 Modul		
	Jaw form range		3/3 Modul		
	Jaw form range		Available / o.k.		
	Jaw form mouth wide		Not available / not o.k.		
	Jaw form mouth length		Drawers minimum height 50 mm		
	Jaw form serrated file-cut		Drawers minimum height 75 mm		
	Jaw form flat file-cut		Drawers additional load 35 kg		
	Internal retaining ring		Drawers additional load 70 kg		
	Biggest Ø		Drawers additional load 100 kg		
	Smallest Ø		Total additional load 240 kg		
	External retaining ring		Total additional load 300 kg		
	Biggest Ø		Total additional load 500 kg		
	Smallest Ø		Total additional load 750 kg		
	Cutting form		Total additional load 1000 kg		
	Cutting form with semi bevel		Total additional load 1200 kg		
	Cutting form with bevel		Total additional load 1250 kg		
	Cutting form center cutting		Magnetic		
	Cutting form wire fitting spring		Left cutting		
	Ø Tip		Right cutting		



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