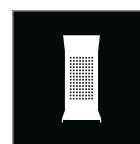
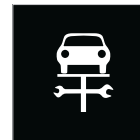
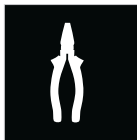
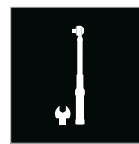




# The MATADOR.

Premium hand tools and more since 1900.

Be a MATADOR.





Dear friends of  
MATADOR,

finally we got it - our new M102.

On 335 pages we present our „world of hand tools“ with many pictures and descriptions, technical details and practical background information.

Starting 120 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 4,500 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 70 countries worldwide work with MATADOR.

True to our motto:

Be a MATADOR.

With best wishes

Peter Kissling

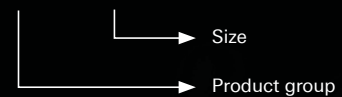
### The new MATADOR article code:

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.

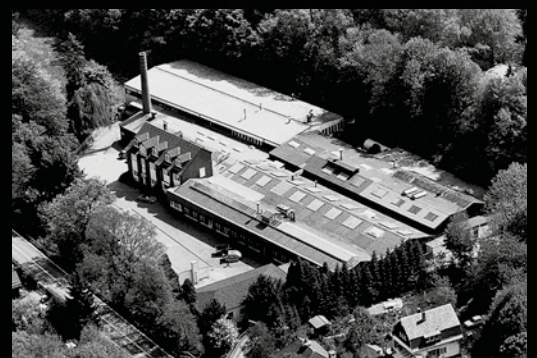
For example:

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	3 - 9
1. Spanners and Wrenches	10 - 37
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**Since 1900.**

Premium hand tools for professional users. All around the screw.







First team come together in 1906.

MATADOR is one of the **pioneers in the tool industry**. Since 1900 we have been producing **quality hand tools „around the screw“**. Still located in Remscheid - the German centre of the premium tool manufacturers - MATADOR belongs today to the leading German manufacturers of tightening tools.

For over 125 years MATADOR has been a fully privately owned and owner-managed **family enterprise** which is now in its fourth generation. Reliability, a longterm perspective and sustainable business operations form part of our core beliefs and values.

In 1900 Mr Heinrich Kissling, the founder of MATADOR, started on two **water-powered forging hammers** with the production of hand tools. In the following years he filed **many patents** for all kind of hand tools. Considering „MATADOR“ - the Spanish name for the principal bull-fighter - to be an **ideal synonym for strength and energy** he registered the brand name „MATADOR“ at the Commercial Register in 1919: „Wrenches and sockets in the very best quality and workmanship“.

100 years later and with a comprehensive product range of **more than 4,500 catalogue articles** MATADOR is still focussing on tightening tools

around the screw. The hexagon nut held by a stylized wrench as well as the word mark „MATADOR Schraubwerkzeuge“ symbolize the company's origin and its core competence.

As an accredited first tier supplier of **all major OEMs** and with professional customers in more than **70 countries** MATADOR tools are much appreciated by people who are the MATADORS in their field.

Without exaggeration we can say that nearly every professional workshop worldwide is equipped with at least one MATADOR tool.





For everyday heroes.

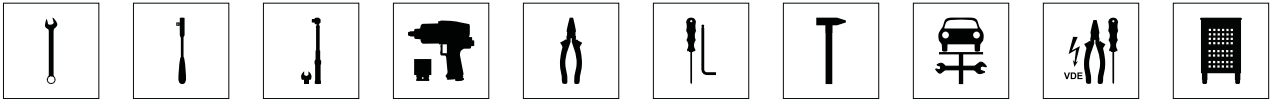
# Be a MATADOR.

MATADOR is **not mainstream**. We stand for upmarket premium tools. Reliable, design-focused, efficient. Intelligent tightening tools made for decision makers, fighters and **everyday heroes**. For real MATADORS.

For people who know and express what they want. People **who are inside the arena**, not in the stands. Who know **the difference between tools and toys**. Who do not seek excuses and are true to themselves. Past and present. For down-to-earth, straightforward and assertive individuals with life experience and stories to tell. Who overcome adversity, manage a healthy work-life balance and **believe in themselves**. Who appreciate the exceptional and do not hesitate to show that.

Welcome to the arena.





## **MATADOR at a glance.**

What you should know about MATADOR.



**Since  
1900.**

**Family-  
owned.**

**All around  
the screw.**

**First lever  
ratchet in  
1919.**

**>4,500  
premium  
tools.**

**Focussed on  
industry and  
automotive.**

**>1,000 B2B  
customers.**

**OEM  
accredited.**

**>70  
countries.**

# Spanners and Wrenches.

Be a MATADOR.





## Content Spanners and wrenches.

Page Article group



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16	Combination Spanners, angled
17	Combination Spanners Sets
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37	Wheel Nut Wrenches
37	Tommy Bar



# MATADOR Spanners. For manual tightening.

Nothing gets done without the good old spanner.



## 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.

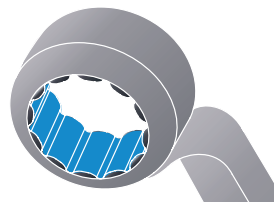
## Individual sizes made to measure.

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.

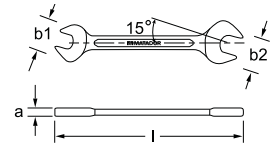


## Double Open Ended Spanners



- 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
0100 0555	5 x 5,5	122	3,2	14,0	16,0	10
0100 5507	5,5 x 7	122	3,3	16,0	17,5	20
0100 0607	6 x 7	122	3,3	16,0	17,5	20
0100 0809	8 x 9	136	3,7	20,0	22,0	25
0100 1011	10 x 11	152	4,5	24,0	27,0	40
0100 1012	10 x 12	172	5,1	26,0	30,5	50
0100 1013	10 x 13	172	5,1	26,0	30,5	55
0100 1213	12 x 13	172	5,1	28,5	30,5	70
0100 1415	14 x 15	185	5,5	31,5	33,5	90
0100 1617	16 x 17	201	5,9	35,5	38,5	110
0100 1719	17 x 19	221	6,9	40,0	43,0	155
0100 1819	18 x 19	221	6,9	40,0	43,0	155
0100 1922	19 x 22	235	7,2	44,0	48,0	210
0100 2022	20 x 22	235	7,2	44,0	48,0	210
0100 2123	21 x 23	245	7,4	47,0	51,0	240
0100 2224	22 x 24	245	7,4	47,0	51,0	240
0100 2426	24 x 26	265	8,4	54,0	57,0	320
0100 2427	24 x 27	265	8,4	54,0	57,0	320
0100 2528	25 x 28	275	8,4	56,0	61,5	480
0100 2730	27 x 30	275	8,4	56,0	62,5	500
0100 2732	27 x 32	299	9,4	59,5	68,5	530
0100 3032	30 x 32	299	9,4	62,5	68,5	550
0100 3236	32 x 36	325	9,6	68,5	74,5	650
0100 3641	36 x 41	358	9,8	74,5	84,0	830
0100 4146	41 x 46	400	10,3	84,0	93,5	830
0100 4650	46 x 50	450	11,6	95,5	102,0	1500
0100 5560	55 x 60	560	18,0	113,0	123,0	3160



# 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)



## ■ Double Open Ended Spanners Sets

- |  |              |                                    |
|--|--------------|------------------------------------|
| - Tried and tested assortments of double open ended spanners | - Standards: | DIN 3110 / ISO 3318 / 1085 / 10102 |
| - All important sizes in one set                             | - Material:  | Chrome Vanadium                    |
| - Sets in premium rollbag                                    | - Surface:   | Matt chrome finish                 |
| - Individual assortments on request                          |              |                                    |



Art. Code	g	
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		

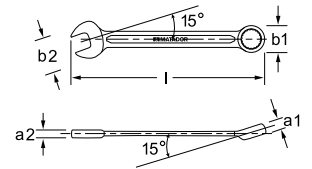


## ■ Combination Spanners, angled



- 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 0280	28	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.

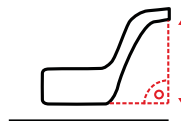
Further sizes are available on request.

DIN 3113 A



Flatter angle of DIN 3113 A compared to DIN 3113 B

DIN 3113 B

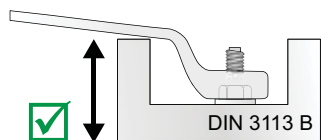
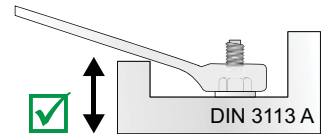
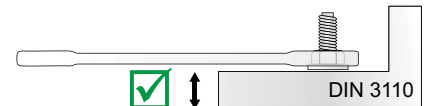
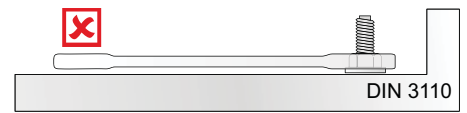
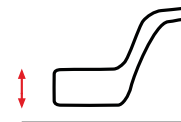


DIN 3113 A



Thinner head of DIN 3113 A compared to DIN 3113 B

DIN 3113 B















## ■ Combination Spanners Sets

- Tried and tested assortments of angled combination spanners
- All important sizes in one set
- Sets in premium rollbag
- 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



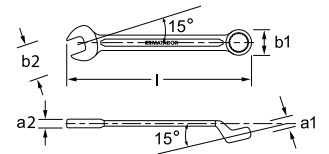
Art. Code	g	
0185 9080 	840	1
Content  0185 8 - 10 - 11 - 13 - 14 - 17 - 19 - 22 mm		
0185 9100 	655	1
Content  0185 6 - 7 - 8 - 9 - 10 - 11 - 13 - 14 - 17 - 19 mm		
0185 9120 	995	1
Content  0185 6 - 7 - 8 - 9 - 10 - 11 - 13 - 14 - 17 - 19 - 20 - 22 mm		
0185 9160 	2670	1
Content  0185 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 17 - 19 - 22 - 24 - 27 - 30 - 32 mm		
0185 9170 	1690	1
Content  0185 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 mm		
0185 9121 	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		



## ■ 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
0190 0070	7	112	5,8	3,9	11,5	16,5	25
0190 0080	8	124	6,3	4,4	13,0	18,5	30
0190 0090	9	136	6,8	4,4	14,5	20,3	35
0190 0100	10	147	7,4	4,9	16,0	22,3	50
0190 0110	11	159	7,8	5,3	17,5	25,3	55
0190 0120	12	171	8,4	5,3	18,2	28,3	65
0190 0130	13	183	9,0	6,2	19,5	29,2	75
0190 0140	14	195	9,8	6,4	21,5	31,0	100
0190 0150	15	207	9,8	6,7	22,5	33,0	105
0190 0160	16	219	10,3	7,1	23,7	35,0	120
0190 0170	17	232	10,4	7,5	25,3	38,0	170
0190 0180	18	243	11,4	7,7	26,8	40,0	155
0190 0190	19	256	11,8	7,9	28,0	41,0	200
0190 0200	20	268	12,0	8,4	29,5	41,5	240
0190 0210	21	279	12,3	8,7	31,5	45,5	250
0190 0220	22	292	12,4	8,9	33,0	48,0	265
0190 0230	23	315	12,8	9,5	35,5	49,5	265
0190 0240	24	315	12,8	9,5	35,5	49,5	400
0190 0250	25	315	12,8	9,5	35,5	49,5	400
0190 0260	26	349	14,3	10,5	39,5	56,5	400
0190 0270	27	349	14,3	10,5	39,5	56,5	485
0190 0280	28	385	15,4	10,9	43,5	63,0	620
0190 0290	29	385	15,4	10,9	43,5	63,0	610
0190 0300	30	385	15,4	10,9	43,5	63,0	610
0190 0320	32	408	16,2	11,1	46,0	67,5	780
0190 0330	33	412	20,5	11,8	47,5	70,5	800
0190 0340	34	412	20,5	11,8	49,0	70,5	840
0190 0360	36	460	23,5	12,8	52,2	76,2	1160
0190 0380	38	460	24,2	13,2	56,0	79,2	1450
0190 0410	41	520	25,5	14,0	60,2	85,0	1120
0190 0460	46	550	27,5	15,0	68,0	95,5	2250
0190 0500	50	580	29,5	16,0	74,0	103,0	2800
0190 0550	55	620	30,5	17,0	82,0	112,5	3600
0190 0600	60	660	32,0	18,0	90,0	121,0	4400
0190 0650	65	710	33,0	22,0	98,0	133,0	4500
0190 0700	70	760	35,0	24,0	105,0	143,0	5600
0190 0750	75	810	38,0	26,0	110,0	153,0	6780
0190 0800	80	860	41,0	28,0	119,0	163,0	8780



## ■ 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	56,0	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



## ■ Combination Spanners Sets

- Tried and tested assortments of offset type combination spanners
- Standards: DIN 3113 B / ISO 3318 / 7738
- All important sizes in one set
- Material: Chrome Vanadium
- Sets in premium rollbag
- Surface: Matt chrome finish

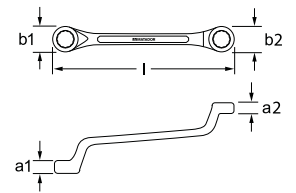
Art. Code		g	
0190 9080	8 MM METRIC	600	1
Content	0190 8 - 9 - 10 - 11 - 13 - 14 - 17 - 19 mm		
0190 9120	12 MM METRIC	1175	1
Content	0190 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm		
0190 9121	12 MM METRIC	1300	1
Content	0190 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 17 - 19 - 22 mm		
0190 9122	12 MM METRIC	3200	1
Content	0190 10 - 11 - 12 - 13 - 14 - 17 - 19 - 22 - 24 - 27 - 30 - 32 mm		
0190 9160	16 MM METRIC	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 METRIC	1920	1
Content	0190 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 mm		
0190 9260	23 MM METRIC	4500	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		
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		



## Double Ended Ring Spanners



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



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	1 100	5	
0200 4146	41 x 46	475	19,5	21,0	60,0	67,0	1 280	5	
0200 4650	46 x 50	536	19,7	20,6	61,0	68,0	1 390	1	
0200 5560	55 x 60	610	24,6	25,6	84,9	91,8	3 150	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	

# MATADOR SmartDrive. The intelligent profile.

## Goes easy on the tool and the screw.

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

The consequences:

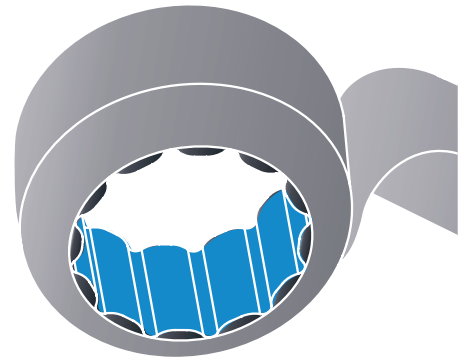
- Lower traction
- Deformed screw heads
- Less contact surface when screw heads are rounded

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.

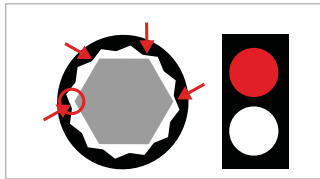
Spanners with MATADOR Smart-Drive profile transfer forces to the flanks of the screw head, not to the edges. Thanks to this flank drive profile the spanners can work on double the contact surface than conventional spanners.

The advantages:

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

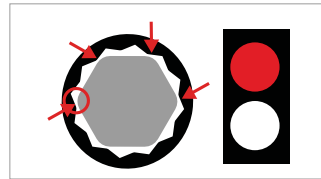


Conventional profile:



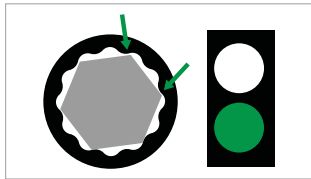
Less traction with angular double hexagon profiles

Conventional profile:



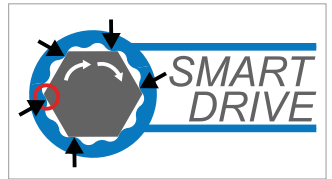
Hardly any traction on screws with rounded edges

MATADOR SmartDrive:



Perfect traction also on screws with rounded edges









MATADOR SmartDrive:



## ■ 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 premium rollbag
  - Individual assortments on request
- Standards: DIN 838 / ISO 3318 / 1085 / 10104
  - Material: Chrome Vanadium
  - Surface: Matt chrome finish



Art. Code	g	
0200 9080 	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 	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 	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 	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		



# Screw connections in detail.

The screw sizes.



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



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.

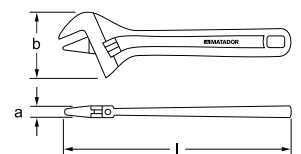
According to the previously valid DIN 931 and 933 the required spanner size for M 10 screws was 17 mm and 19 mm for M 12 screws.

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.

## Adjustable Single Ended Spanner



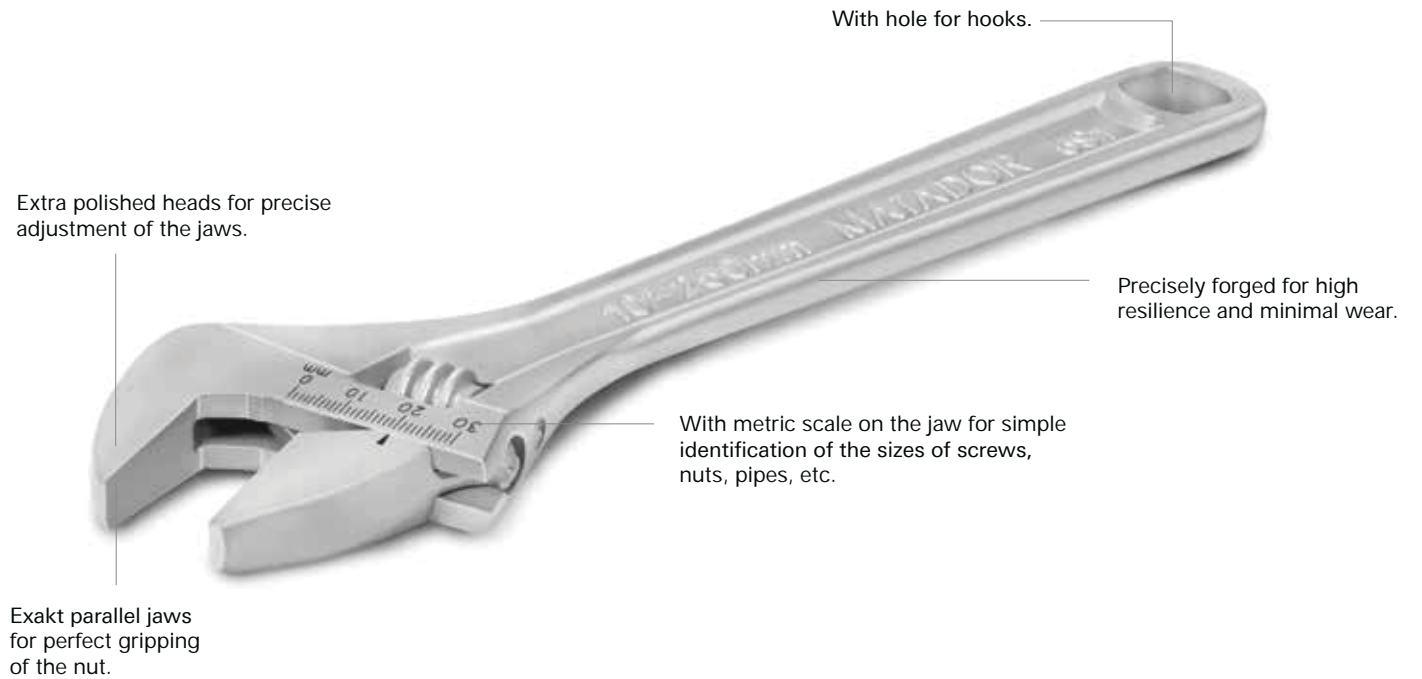
- Individual versatile single ended spanner, thanks to its continuous setting
- Wide range: 6 - 24 mm
- Good grip thanks to knurly spool
- With ergonomic non-slip rubber handle
- With practical hole for hooks



Art. Code	mm	" AF	l "	l mm	a mm	b mm	mm	g	
0590 0080	6-24	0-1	8	200	13,5	57	0-25	250	1

# Adjustable Single Ended Spanners. One for all.

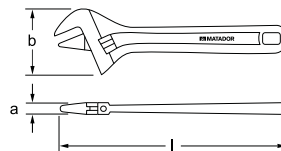
The practical allround spanner.



## 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 0040	0-13	0-1/2	4	100	12.5	46	0-13	140	1
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



# MATADOR Ratchet Spanners. If time is short.

The most important innovation since the invention of spanners.

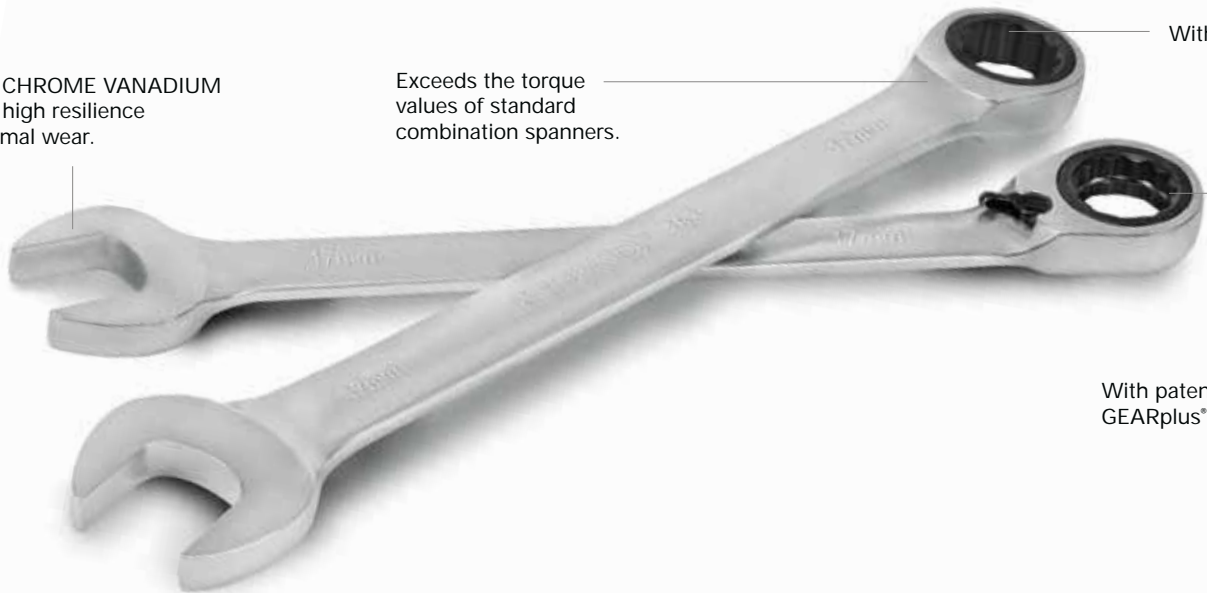


Made of CHROME VANADIUM Steel for high resilience and minimal wear.

Exceeds the torque values of standard combination spanners.

With 72 teeth.

With patented GEARplus<sup>®</sup> technique.



## 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<sup>®</sup> 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?

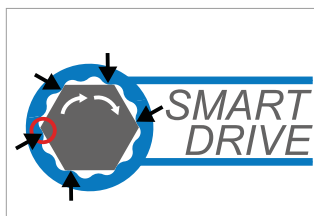
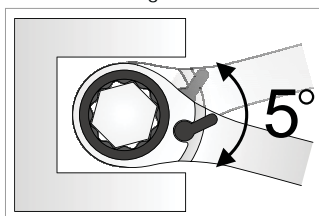
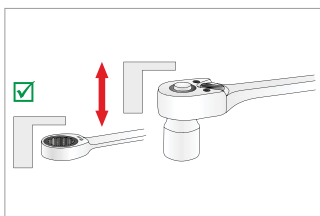
One can no longer imagine a modern workshop without ratchet spanners.

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.

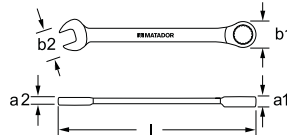
Powerful, flat, fast.





## ■ 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
0183 0070	7	140	6,5	4,0	16,8	16,7	30
0183 0080	8	140	6,5	4,0	16,8	16,7	30
0183 0090	9	149	6,9	4,4	18,8	18,7	40
0183 0100	10	158	7,3	4,8	20,8	20,8	50
0183 0110	11	165	7,7	5,2	21,8	23,0	60
0183 0120	12	171	8,2	5,5	22,8	24,6	70
0183 0130	13	178	8,6	5,8	24,8	26,8	80
0183 0140	14	190	9,0	6,2	27,8	29,0	110
0183 0150	15	199	9,4	6,5	28,8	31,0	120
0183 0160	16	208	9,9	6,8	30,8	33,0	150
0183 0170	17	225	10,3	7,2	31,8	35,5	180
0183 0180	18	236	10,7	7,7	32,8	37,5	210
0183 0190	19	247	11,2	8,2	33,8	39,4	240
0183 0220	22	289	13,0	9,0	40,0	45,8	340
0183 0240	24	322	14,5	10,0	46,0	51,8	470
0183 0270	27	358	15,5	10,5	52,0	56,4	580
0183 0300	30	401	17,0	11,4	58,0	62,7	860
0183 0320	32	424	17,5	12,5	62,0	66,4	1060



## ■ Combination Ratchet Spanners Sets

- Tried and tested assortments of combination ratchet spanners, straight type
- All important sizes in one set

Art. Code	g
0183 9050	600 1
Content  0183 8 - 10 - 13 - 17 - 19 mm	
0183 9080	790 1
Content  0183 8 - 9 - 10 - 11 - 13 - 14 - 17 - 19 mm	
0183 9120	1400 1
Content  0183 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	
0189 9050	600 1
Content  0183 8 - 10 - 13 - 17 - 19 mm	
0189 9080	790 1
Content  0183 8 - 9 - 10 - 11 - 13 - 14 - 17 - 19 mm	
0189 9120	1400 1
Content  0183 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	

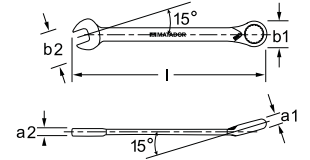


## ■ Combination Ratchet Spanners, angled



- 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



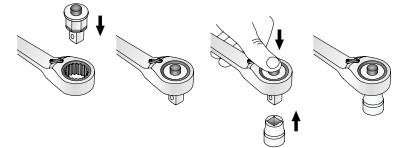
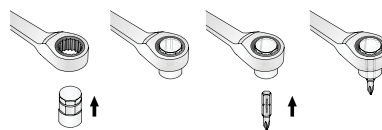
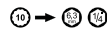
Art. Code	mm	l mm	a1 mm	a2 mm	b1 mm	b2 mm	g	
0189 0060	6	126	6,3	3,9	14,0	15,0	30	10
0189 0070	7	145	6,5	4,6	16,6	16,7	30	10
0189 0080	8	145	6,5	4,6	16,6	16,7	30	10
0189 0090	9	150	6,9	4,9	18,4	18,8	40	10
0189 0100	10	145	7,3	5,3	20,0	20,8	50	10
0189 0110	11	165	7,7	5,6	21,8	23,0	60	10
0189 0120	12	172	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

## ■ 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



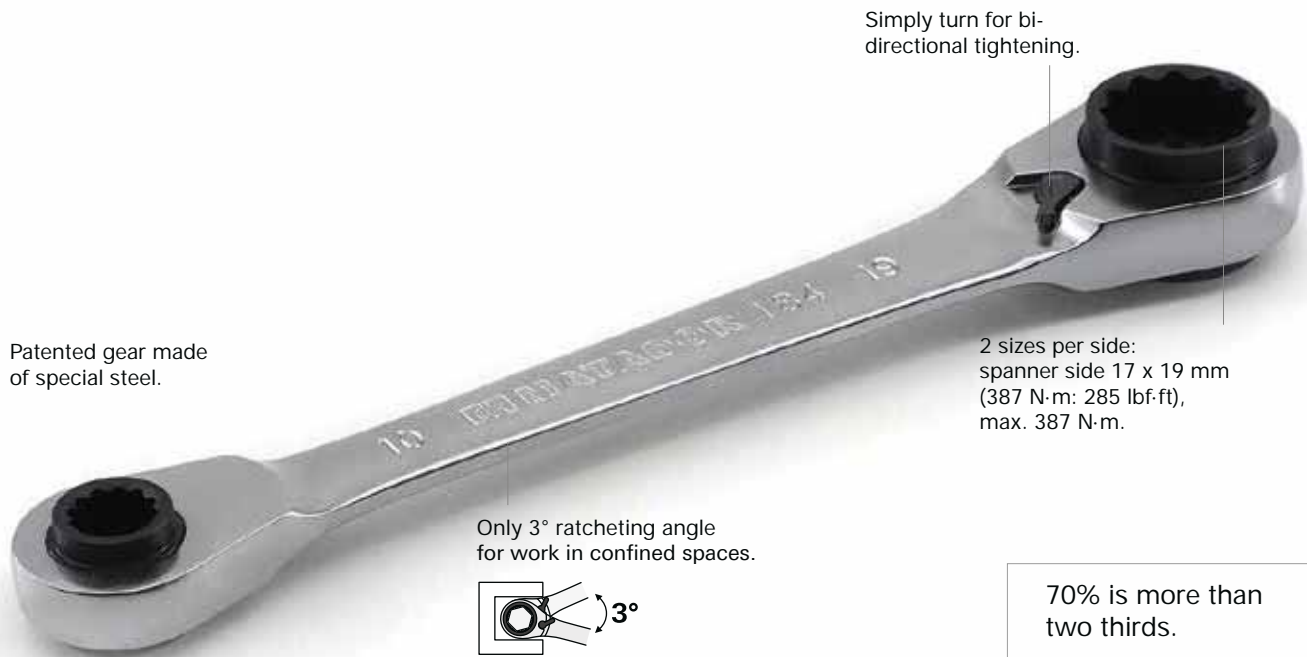
Art. Code	g	
0186 0010	60	1
Content	0186 6,3 (1/4) Bit - 6,3 (1/4) - 10 (3/8) - 12,5 (1/2) mm	



# 4in1 Ratchet Spanner.

## Suitable for 70% of all screw tasks.

Ideal for mobile use.



Patented gear made of special steel.

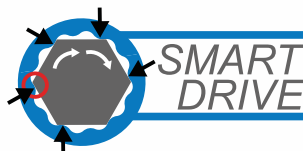
Simply turn for bi-directional tightening.

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

Only 3° ratcheting angle for work in confined spaces.



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



70% is more than two thirds.

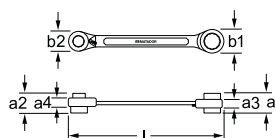
MATADOR's „4in1“ ratchet spanner must not be missing in any modern tools assortment.

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.

## 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 120 teeth
- Transmits very high torque values
  - Size 10 x 13 = max. 138 Nm
  - Size 17 x 19 = max. 387 Nm
- Only 3° ratcheting angle thanks to 120 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	21,9 / 11,2	17,1 / 9,0	33,6	21,9	196	1



# MATADOR Slogging Spanners.

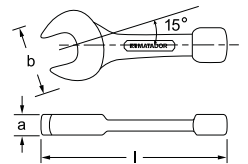
Rise to the challenge.



## ■ 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
0175 0240	24*	180	16,0	55,0	280
0175 0260	26*	180	16,0	57,0	210
0175 0270	27	180	16,5	57,5	385
0175 0280	28*	180	16,0	57,0	280
0175 0300	30	190	17,0	63,5	451
0175 0320	32	195	17,5	66,5	552
0175 0340	34	195	17,5	66,5	559
0175 0360	36	210	18,5	75,5	709
0175 0380	38*	215	19,0	76,0	680
0175 0410	41	225	19,5	88,0	1000
0175 0460	46	255	20,0	98,0	1258
0175 0500	50	280	21,5	108,0	1609
0175 0550	55	310	24,0	118,5	2131
0175 0600	60	320	24,5	129,5	2484
0175 0650	65	342	28,0	140,5	3340
0175 0700	70	370	30,0	151,0	4325
0175 0750	75	400	31,5	163,0	5110

Art. Code	mm	l mm	a mm	b mm	g
0175 0800	80	405	34,5	174,0	6020
0175 0850	85	405	34,5	174,0	5770
0175 0900	90	455	39,0	195,0	8905
0175 0950	95	455	39,0	195,0	8985
0175 1000	100	500	47,0	227,0	13315
0175 1050	105	500	47,0	227,0	13220
0175 1100	110	500	47,0	227,0	13045
0175 1150	115	525	55,0	246,5	17660
0175 1200	120	525	55,0	246,5	17610
0175 1250	125*	545	50,0	255,0	16760
0175 1300	130	575	55,0	275,0	19030

# MATADOR Slogging Spanners.

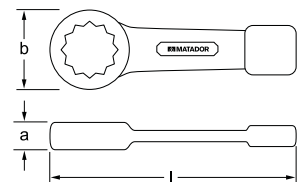
Rise to the challenge.



## ■ 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

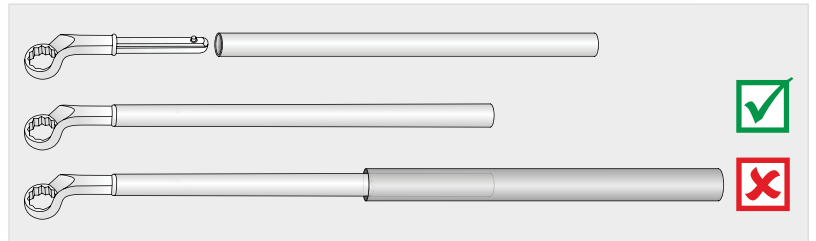
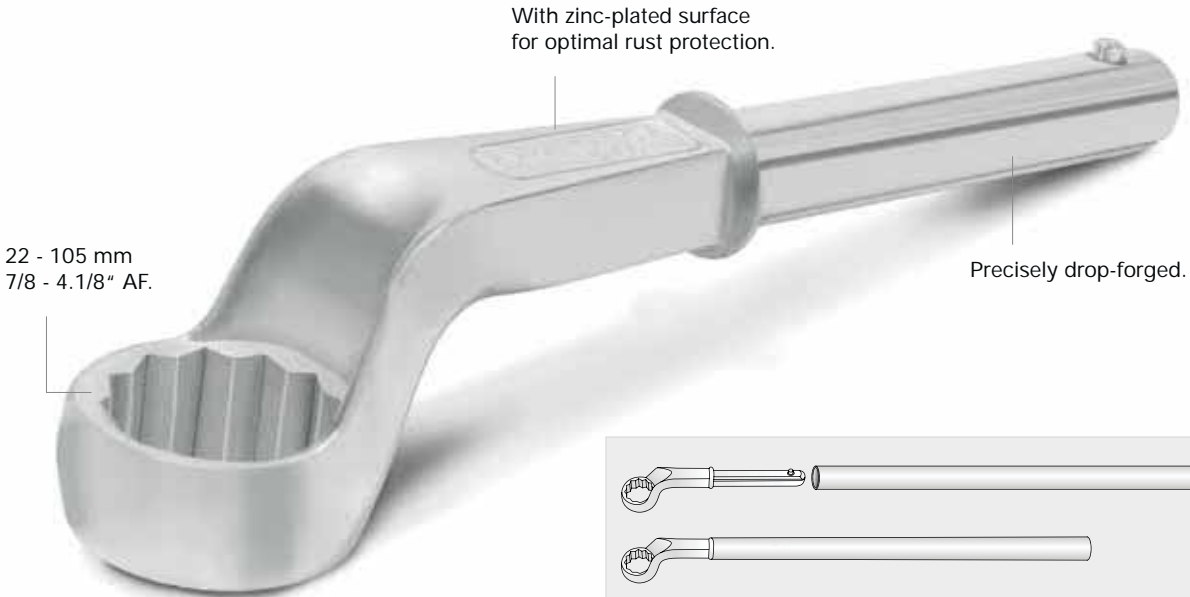


Art. Code	mm	l mm	a mm	b mm	g	
0270 0270	27	180	15,5	47,0	350	1
0270 0300	30	190	16,5	52,5	400	1
0270 0320	32	195	16,5	54,0	450	1
0270 0340	34	195	16,5	54,0	600	1
0270 0360	36	205	19,5	60,0	750	1
0270 0380	38*	205	19,5	60,0	660	1
0270 0410	41	225	20,5	66,0	850	1
0270 0460	46	240	22,5	75,0	1050	1
0270 0500	50	250	23,5	80,0	1250	1
0270 0550	55	270	25,0	87,5	1550	1
0270 0600	60	270	26,0	93,5	1650	1
0270 0650	65	290	29,0	101,0	2300	1
0270 0700	70	320	32,5	109,5	2600	1
0270 0750	75	325	34,0	114,5	3350	1
0270 0850	85	360	37,0	129,0	4200	1
0270 0900	90	400	41,5	152,0	5700	1
0270 0950	95	400	41,5	152,0	5700	1

Art. Code	mm	l mm	a mm	b mm	g	
0270 1000	100	400	41,5	152,0	5700	1
0270 1050	105	435	47,5	172,0	8500	1
0270 1100	110	435	47,5	172,0	8500	1
0270 1150	115	435	47,5	172,0	8500	1
0270 1200	120	480	54,0	182,0	10000	1
0270 1250	125*	480	54,0	182,0	10000	1
0270 1300	130	520	58,0	202,0	13000	1

# MATADOR Heavy Duty Ring Spanners.

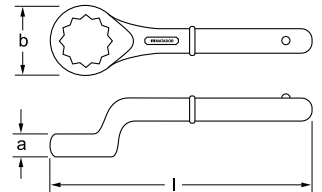
Long lever - large impact.



## 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 0240	24	180	17,0	38,0	350	1
0280 0260	26*	190	17,0	42,0	430	1
0280 0270	27	190	17,4	42,0	400	1
0280 0300	30	200	18,4	47,0	450	1
0280 0320	32	235	18,4	50,0	550	1
0280 0330	33*	235	18,4	50,0	700	1
0280 0360	36	245	20,0	55,0	650	1
0280 0380	38	250	21,0	55,0	840	1
0280 0410	41	265	22,0	61,5	1000	1
0280 0460	46	280	23,0	68,5	1050	1
0280 0480	48*	290	25,5	75,0	1450	1
0280 0500	50	290	25,5	75,0	1150	1
0280 0550	55	300	28,0	80,0	1400	1
0280 0600	60	345	30,5	89,0	2100	1
0280 0650	65	355	33,0	97,0	2300	1

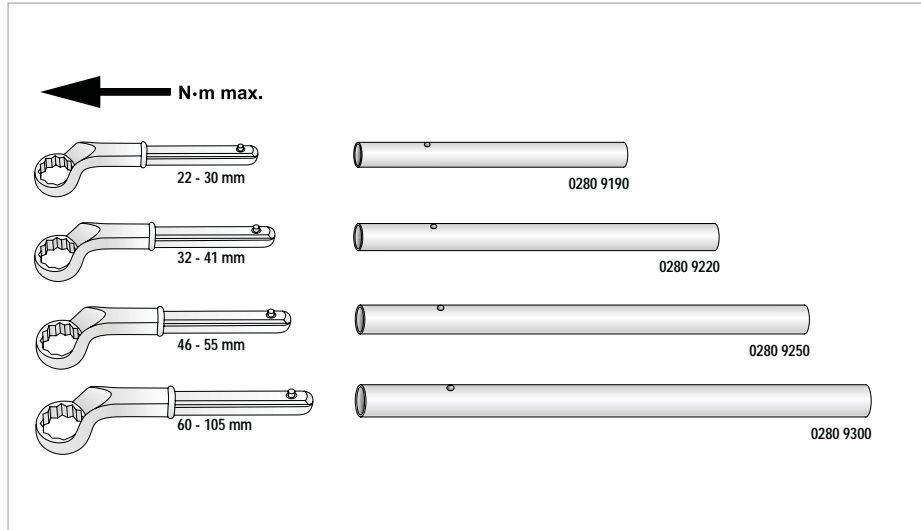
Art. Code	mm	l mm	a mm	b mm	g	
0280 0700	70	365	35,5	104,0	2600	1
0280 0750	75	375	38,0	109,0	3000	1
0280 0800	80	385	40,5	124,0	3450	1
0280 0850	85	385	40,5	124,0	3800	1
0280 0900	90	410	45,0	140,0	4875	1
0280 0950	95	410	45,0	140,0	4565	1
0280 1050	105*	415	45,0	144,0	4600	1

\* Made to order, no general stock size



# The perfect leverage effect.

Long lever - large impact.



## 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.



## Extension Pipes for Heavy Duty Ring Spanners

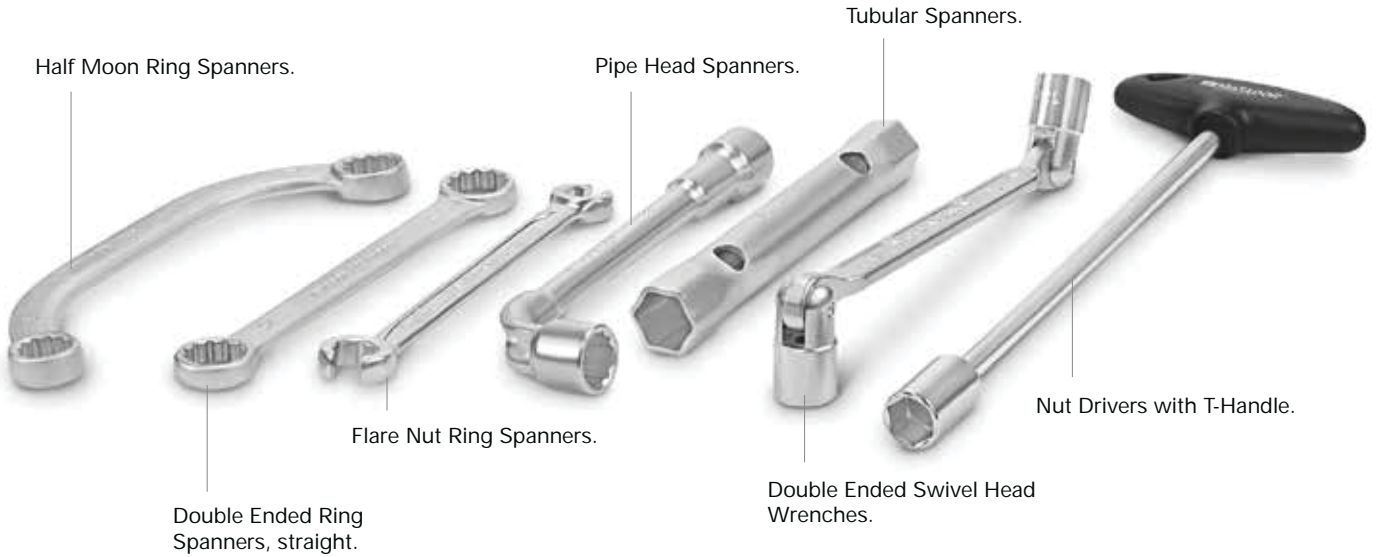
- For extension of the lever arm and increased force action
- With hole for safe locking and unlocking
- Material: 31 CrV 3
- Surface treatment: Zinc-plated

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



# The specials from MATADOR.

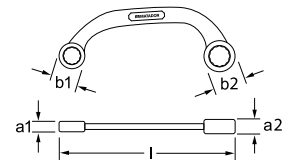
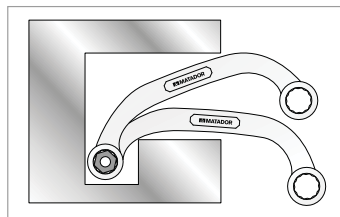
For confined spaces and special applications.



## Half Moon Ring Spanners



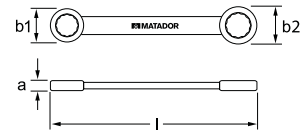
- Double ended ring spanners with curved shaft and extra thin-walled rings for work in confined spaces (e. g. car engine block, carburettor / starter, electric generator etc.)
  - High-grade, durable industrial quality
  - Good grip thanks to matt chrome-plated surface, also with oily hands
- Material: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

## 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	



## Double Ended Ring Spanners, TORX®

- as above, but TORX® profile

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
0222 1012	10 x 12 angled	140	6,5	7,8	14,4	16,7	31	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	



## ■ 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 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 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

- 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

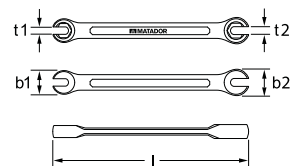
Art. Code	g	
0251 9050	550	1

Content: 8 x 10 - 10 x 12 - 11 x 13 - 14 x 17 - 19 x 22 mm

## ■ 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

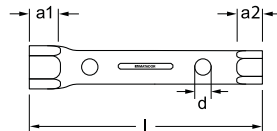




## Tubular Box Spanners

- 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
0380 0809	8 x 9	6	105	7,0	7,5	85
0380 0810	8 x 10	6	120	7,0	8,0	105
0380 1011	10 x 11	6	140	8,0	8,5	115
0380 1213	12 x 13	8	140	9,5	10,0	145
0380 1315	13 x 15	8	140	10,0	11,5	170
0380 1415	14 x 15	8	140	10,5	11,5	185
0380 1617	16 x 17	10	150	12,0	12,5	215
0380 1719	17 x 19	12	155	12,5	15,5	240
0380 1819	18 x 19	12	155	13,5	15,5	275
0380 1821	18 x 21	12	155	13,5	16,0	345
0380 2022	20 x 22	12	165	16,0	16,5	385
0380 2123	21 x 23	14	165	16,0	18,0	490
0380 2427	24 x 27	14	180	20,0	22,0	550
0380 2528	25 x 28	16	195	20,0	22,0	550
0380 3032	30 x 32	16	195	23,0	27,0	715
0380 3236	32 x 36	18	215	27,0	28,0	750
0380 3641	36 x 41	18	215	28,0	31,0	885
0380 4146	41 x 46	20	235	31,0	35,0	890
0380 4650	46 x 50	20	235	35,0	37,0	890

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

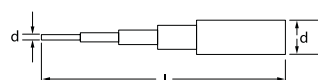
Art. Code	Content	g
0380 9080	0380 6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 mm	850
0380 9120	0380 6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 - 21 x 23 - 24 x 27 - 25 x 28 - 30 x 32 mm	2100



## 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	200	230

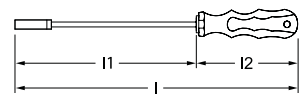


## Hexagon Nut Drivers



- 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



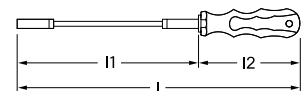
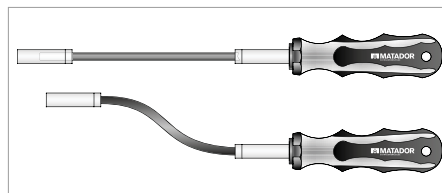
Art. Code	mm	M	l mm	l1 mm	l2 mm	g	
0670 2050	5	2,5	235	125	110	67	10
0670 2060	6	3,5	235	125	110	69	10
0670 2070	7	4,0	235	125	110	100	10
0670 2080	8	5,0	235	125	110	102	10
0670 2100	10	6,0	235	125	110	106	10

## 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

## 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

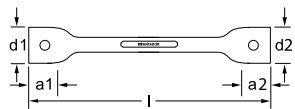


Art. Code	mm	M	l mm	b mm	g
0671 0060	6	3,5	230	90	125
0671 0070	7	4	230	90	125
0671 0080	8	5	230	90	138
0671 0100	10	6	230	90	172
0671 0110	11	7	230	90	170
0671 0120	12	(8)	230	90	174
0671 0130	13	8	230	90	177
0671 0140	14		230	90	185



## 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	80
0340 2732	27 x 32	1.1/16 x 1.1/4	18	400	34,5	34,5	41	47	105
0340 3032	30 x 32	1.3/16 x 1.1/4	18	400	34,5	34,5	45	47	145
0340 3233	32 x 33		18	400	34,5	34,5	47	48	170



## Tommy Bar

- Straight tommy bar
- Surface: KTL coating

Art. Code	mm	l mm	g
0342 0600	18	600	1190



# Sockets and accessories.

Be a MATADOR.





## Content Sockets / accessories.

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61	Screwdriver Bit Sockets (Hex)
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67	T-Handle Extension
68	Reducer
68	Converter
68	Bit Adapters
69	Sockets (MM)
70	Sockets (AF)
71	Sockets, long type
71	Sockets (TORX®)
72	Screwdriver Bit Sockets (Hex)
72	Screwdriver Bit Sockets Set (Hex)
73	Screwdriver Bit Sockets (XZN)
73	Screwdriver Bit Sockets Set (XZN)
74	Screwdriver Bit Sockets (RIBE®)
74	Screwdriver Bit Sockets (TORX®)
75	Screwdriver Bit Sockets Set (TORX®)
75	Screwdriver Bit Sockets (TORX® with pilot)
75	Screwdriver Bit Sockets Set (TORX® with pilot)
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78	Push-Through Ratchet
79	Sliding T-Handle
79	Extensions
79	Universal Joint
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80	Converter
80	Sockets
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82	Extensions
82	Reducer
83	Sockets (MM)
83	Socket Set 25 (1)
83	Construction ratchet



# MATADOR drive technology. Benefit from experience.

In the beginning there was only an idea.



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



2018 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 torn-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.

Since 1900 we think about drive technology.

Often, less is more.

The intrinsic values are what counts.

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

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

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

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

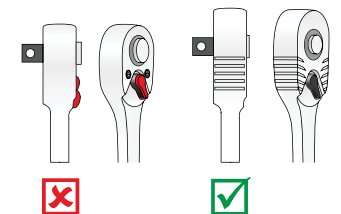
Instead we concentrate on our core competences and have only those ratchets in our range that are really needed in practice and that meet our strict requirements in terms of quality.

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

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.

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

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.



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















A small detail with high effect.

# All ratchets at a glance.


Get back to basics.

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 with joint, fine-toothed	2063 0002	--	--	--	--	--
	 Reversible Ratchet, fine-toothed	2061 0090	--	--	--	--	--
	 Reversible Ratchet, fine-toothed	--	3061 0090	--	--	--	--
	 Reversible Ratchet, fine-toothed	--	--	4061 0090	--	--	--
	 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	1412 N-m	2515 N-m

# MATADOR Sockets with Super-Chrom and SmartDrive<sup>2</sup>.

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

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



From 6.3 (1/4") to 20 (3/4") with SmartDrive<sup>2</sup>.



All tools are automatically stamped, not only lasered.



From 10 (3/8") to 12.5 (1/2") with cross knurling for quick manual operation (also with oily hands).

4 deep milled ball grooves for secure hold.

## 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 Smart-Drive 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.

## And what's more: SmartDrive<sup>2</sup>.

The perfect add-on to SmartDrive is SmartDrive<sup>2</sup>.

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 SmartDrive<sup>2</sup> - you should not be content with less.

## 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.

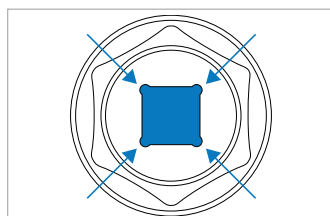
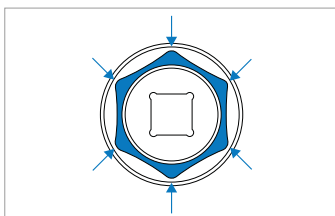
MATADOR SuperChrom goes one step further: Through especially intense grinding the tools get a very smooth surface. Afterwards they will be finished optimally with a very resistant and thick nickel-chrome-plating - of course chrome VI free and environmentally friendly.

## 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.


















































# Alle Steckschlüssel auf einen Blick.

## Von der Feinmechanik bis hin zur Schwerindustrie.

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").

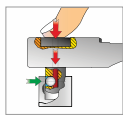
You don't find what you need? Please contact us.

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



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

Small, handy and swivelling.

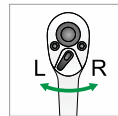


With safety lock and quick-release function.

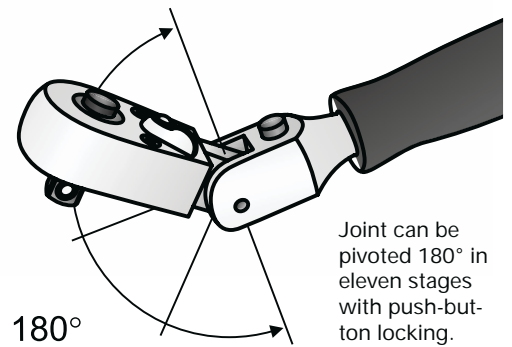
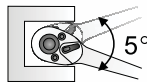


Ergonomic handle.

Recessed lever for clockwise and anti-clockwise movement.



Fine-toothed with 72 teeth for only 56° swivel angle.



Joint can be pivoted 180° in eleven stages with push-button locking.

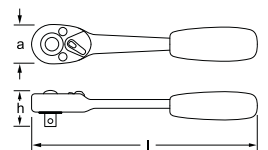
180°

## Articulated Ratchet

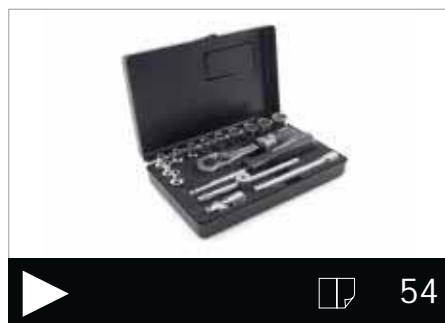
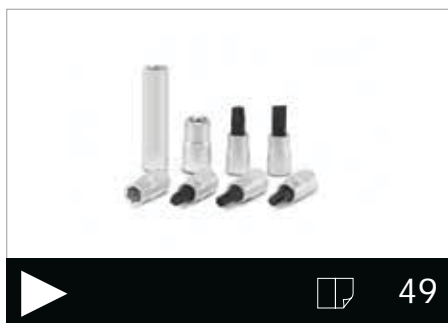


- Small ratchet head for confined spaces
- With safety lock and quick-release function
- With lever
- Fine-toothed with 72 teeth
- For hand-operated sockets and adapters
- With square drive as per DIN 3120 - C 6.3 / ISO 1174

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



Art. Code	mm	"	l mm	a mm	h mm	g	
2063 0002	6,3	1/4	120	25	23	110	10



# The new MATADOR Z90 reversible ratchet in 6.3 (1/4").

More teeth. More power. More grip. More applications. More design.

## 25%

reduced angle (only 4°) compared to standard fine-toothed ratchets thanks to an innovative 90-teeth technique. Still ready for working even when it gets really tight.

## 4°

## 50%

more torque than requested in the DIN standard (e.g. 12.5 mm (1/2") > 750 N·m). Still loosens screws when others have long given up.

## max.

ergonomics thanks to multi-component handle, better than standard 1- or 2-component handles. Optimally adapted, spherical shape.

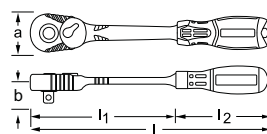


6.3 mm  
1/4

### ■ Reversible Ratchet

- Extremely robust square shank made of Chrome Vanadium steel for high resilience in every situation
- Push-button lock for a safe connection between ratchet and socket
- Recessed, flat lever for quick change of direction
- Fine-toothed with 90 teeth, only 4° swivel angle
- For hand-operated sockets and adapters
- Practical hanging loop to secure the ratchet during construction work or to hang on a tools panel

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



Art. Code	mm	"	l mm	l1 mm	l2 mm	a mm	b mm	g	
2061 0090	6.3	1/4	125	70	55	23.5	24.7	112	10
2061 0099	Repair Kit							30	1



# MATADOR 2in1 Spinner Handle.

The innovative multiscrewdriver.



multi-component handle. Optimally adapted, spherical shape.

Bayonet mount for bit and square drive.



With hexagon socket for bits.



With square drive for sockets.



Ergonomic and comfortable thumb rest.



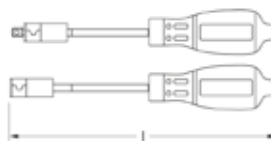
Practical hanging loop to secure the handle during construction work or to hang on a tools panel.

## Spinner Handle 2in1

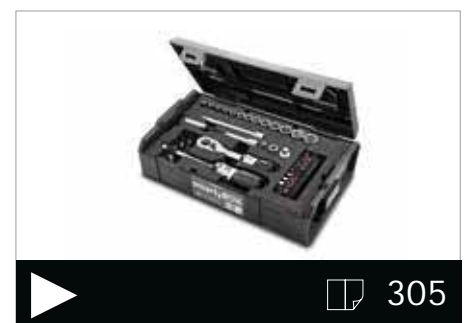
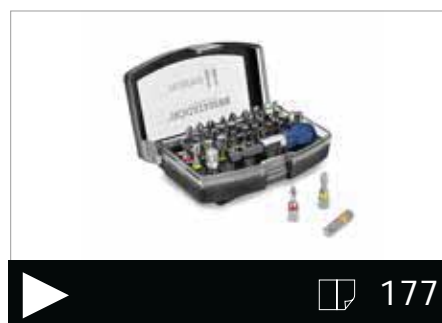
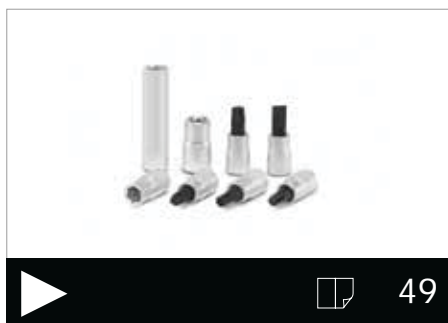


- Innovative spinner handle that can be used as a multiscrewdriver
- Patented spinner handle with bayonet mount for bit and square drive
- Ergonomic multi-component handle

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



Art. Code	mm	"	l mm	g	
2073 0090	6,3	1/4	165	90	10

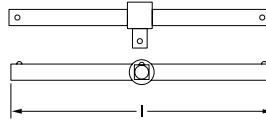


## Sliding T-Handle

1/4 6.3 mm

- 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

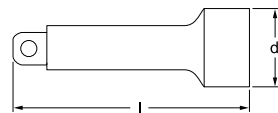
## Extensions

1/4 6.3 mm 1/4 6.3 mm

6.3 mm  
1/4

- 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



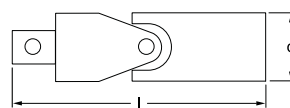
Art. Code	mm	"	mm	"	d mm	l mm	l "	g	
2065 0001	6.3	1/4	6.3	1/4	12	50	2	20	10
2065 0002	6.3	1/4	6.3	1/4	12	100	4	40	10

## Universal Joint

1/4 6.3 mm 1/4 6.3 mm

- 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



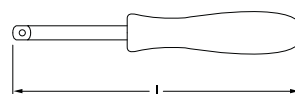
Art. Code	mm	"	mm	"	d mm	l mm	g	
2068 0001	6.3	1/4	6.3	1/4	14	38	27	10

## Spinner Handle

1/4 6.3 mm

- 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

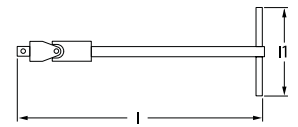
## ■ T-Handle Extension

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



- 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

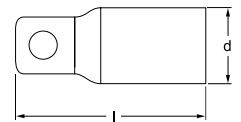
## ■ Converter

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



- 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

## ■ Adapter

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



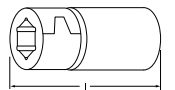
2084 0001



2084 0002

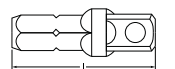
- For inserting bits with hex shank
- With spring clip
- With hexagon socket acc. to DIN 3126 - D 6.3 and inner square C 6.3 acc. to DIN 3120
- Standards: DIN 3126 / 3120

- 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

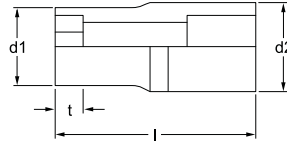


## ■ Sockets



- For hexagon head screws
- For hand operation
- Square drive acc. to DIN 3120 - C 6.3 / ISO 1174
- With six point profile
- With MATADOR SmartDrive<sup>2</sup>
- Standards: DIN 3124 / ISO 2725-1

- Material: Chrome Vanadium
- Surface: Super-Chrom

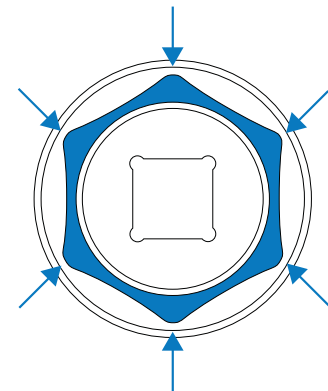


Art. Code	mm	t mm	l mm	d1 mm	d2 mm	g	
2075 0040	4	5	25	6,8	11,9	10	10
2075 0045	4,5	5	25	7,1	11,9	10	10
2075 0050	5	5	25	8,0	11,9	10	10
2075 0055	5,5	5	25	8,3	11,9	11	10
2075 0060	6	5	25	9,3	11,9	11	10
2075 0070	7	5	25	10,5	11,9	12	10
2075 0080	8	5	25	11,9	11,9	12	10
2075 0090	9	8	25	13,0	13,0	19	10
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



6.3 mm  
1/4

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



## ■ 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 SmartDrive<sup>2</sup>
- Standards: DIN 3124 / ISO 2725-1
- Material: Chrome Vanadium
- Surface: Super-Chrom

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

2075 7 - 8 - 10 - 13 mm

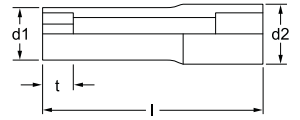


## ■ Sockets, long type



- 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 SmartDrive<sup>2</sup>

- 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

## ■ 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



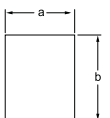
Art. Code		t mm	l mm	d1 mm	d2 mm	g	
2090 0040	E4	5	25	7	11,9	12	10
2090 0050	E5	5	25	8	11,9	12	10
2090 0060	E6	5	25	9	11,9	13	10
2090 0070	E7	5	25	9,5	11,9	14	10
2090 0080	E8	8	25	10,5	11,9	13	10
2090 0100	E10	8	25	13,1	14,5	21	10
2090 0110	E11	8	25	13,5	14,5	22	10

## ■ 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

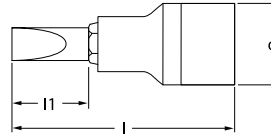
2090 E8 - E10 - E11

## ■ 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



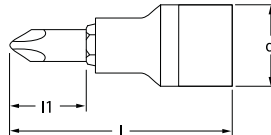
Art. Code	mm	mm	l mm	l1 mm	d mm	g
2076 0040	0,6	4,0	33	14	11,9	12
2076 0055	0,8	5,5	33	14	11,9	12
2076 0070	1,0	7,0	33	14	11,9	13

## ■ 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



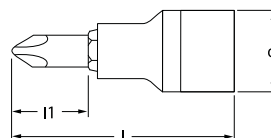
Art. Code	PH	l mm	l1 mm	d mm	g
2077 0001	1	33	14	11,9	14
2077 0002	2	33	14	11,9	14
2077 0003	3	33	14	11,9	15

## ■ 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



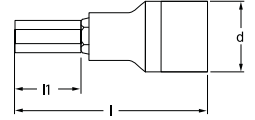
Art. Code	PZ	l mm	l1 mm	d mm	g
2077 0011	1	33	14	11,9	14
2077 0012	2	33	14	11,9	14
2077 0013	3	33	14	11,9	15

## ■ 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

- 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

## ■ 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

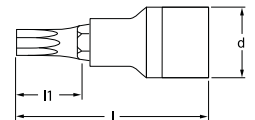
2078 4 - 5 - 6 x 32 mm

## ■ 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

- 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

## ■ 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



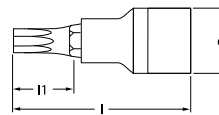
Art. Code	a mm	b mm	g	
2092 9040	75	95	65	1

2092 T20 - T25 - T30 - T40 x 32 mm

## ■ 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



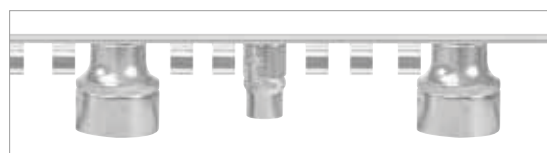
Art. Code		l mm	l1 mm	d mm	g	
2093 0080	TR8	33	14	11,9	14	10
2093 0100	TR10	33	14	11,9	14	10
2093 0150	TR15	33	14	11,9	14	10
2093 0200	TR20	33	14	11,9	14	10
2093 0250	TR25	33	14	11,9	14	10
2093 0270	TR27	33	14	11,9	14	10
2093 0300	TR30	33	14	11,9	14	10
2093 0400	TR40	33	14	11,9	15	10



## ■ Socket Rail



- For wall mounting
- For 14 sockets
- For square drive acc. to DIN 3120 - C 6.3 / ISO 1174



Art. Code	l mm	g	
2099 0001	410	67	1





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

In solid metal case.



6.3 mm  
1/4"

## ■ Socket Sets 6.3 (1/4)



## ■ Socket Sets 6.3 (1/4)



Art. Code	Icon	a mm	b mm	g
2115 9160	16 MM 2061	170	105	700
2115 9161	16 AF 2061	170	105	700
	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"			

Art. Code	Icon	a mm	b mm	g
2135 9280	28 MM 2061	220	110	850
2135 9281	28 AF 2061	220	110	850
	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			



**MFS** MATADOR  
FOAM SYSTEM.

With black foam inlay,  
resistant against oil and  
lubricants.

**METAL**

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



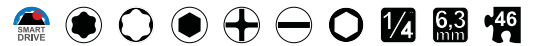
6.3  
mm  
1/4

With reversible ratchet Z90 (2061).

■ Socket Sets 6.3 (1/4)



■ Socket Sets Pro 6.3 (1/4)



Art. Code	Icons	a mm	b mm	g	1
2145 0001	54 MM metric 6	220	110	850	1
	6.3 1/4				
	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			
	7026	3 - 3.5 - 4.5 - 5.5 - 6.5 x 25 mm			
	7027	PH 0 - PH 1 - PH 2 - PH 2 - PH 3 x 25 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			
	2084	6,3 (1/4) - 6,3 (1/4) Bit			
	0440	1,5 - 2 - 2,5 - 3 mm			

Art. Code	Icons	a mm	b mm	g	1
2140 9460	46 MM metric 6	315	115	1100	1
	6.3 1/4				
	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			

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

Compact size, high torque values.

## 25%

reduced angle (only 4°) compared to standard fine-toothed ratchets thanks to an innovative 90-teeth technique. Still ready for working even when it gets really tight.



10 mm  
3/8"



## max.

ergonomics thanks to multi-component handle, better than standard 1- or 2-component handles. Optimally adapted, spherical shape.

## 4°

## 50%

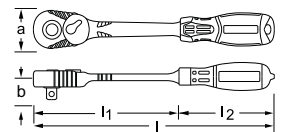
more torque than requested in the DIN standard (e.g. 12.5 mm (1/2") > 750 N·m). Still loosens screws when others have long given up.

### Reversible Ratchet



- Extremely robust square shank made of Chrome Vanadium steel for high resilience in every situation
- Push-button lock for a safe connection between ratchet and socket
- Recessed, flat lever for quick change of direction
- Fine-toothed with 90 teeth, only 4° swivel angle
- For hand-operated sockets and adapters
- Practical hanging loop to secure the ratchet during construction work or to hang on a tools panel

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



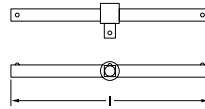
Art. Code	mm	"	l mm	l1 mm	l2 mm	a mm	b mm	g	
3061 0090	10	3/8	200	120	80	29,1	32,8	234	10
3061 0099	Repair Kit							102	1

## Sliding T-Handle

3/8 10 mm

- 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



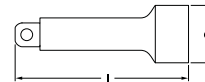
Art. Code	mm	"	l mm	g	mm
3064 0001	10	3/8	200	170	10

## Extensions

3/8 10 mm 3/8 10 mm

- 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



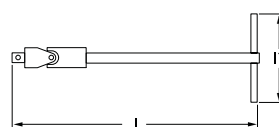
Art. Code	mm	"	mm	"	d mm	l mm	l" mm	g	mm
3065 0050	10	3/8	10	3/8	18	50	5	60	10
3065 0075	10	3/8	10	3/8	18	75	10	90	10
3065 0001	10	3/8	10	3/8	18	125	5	120	10
3065 0002	10	3/8	10	3/8	18	250	10	210	10

## T-Handle Extension

3/8 10 mm 3/8 10 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 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



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

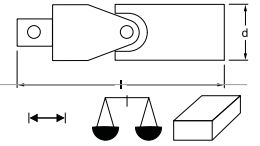
## ■ Universal Joint



- 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

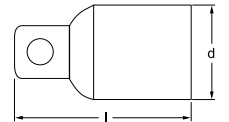
## ■ Reducer



- 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

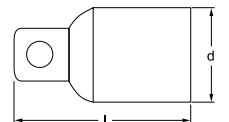
## ■ Converter



- 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

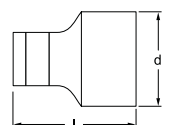
## ■ Bit Adapter



- 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**



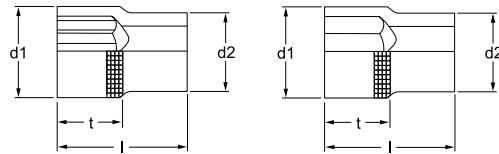
Art. Code	mm	"	mm	"	d mm	l mm	g	
3084 0001	10	3/8	6,3	1/4	17	30	50	10



## ■ 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

## ■ 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

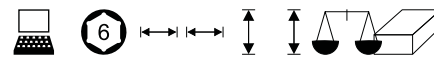


## ■ Sockets, long type

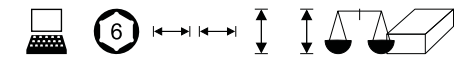


- For outside TORX® screws
- For hand operation
- Square drive acc. to DIN 3120 - C 10 / ISO 1174
- With non-slip cross knurling

- 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



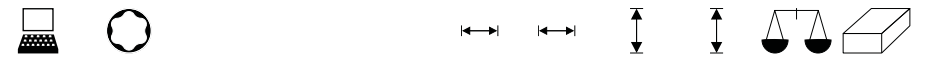
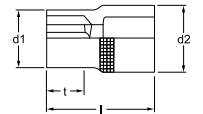
Art. Code	mm	t mm	l mm	d1 mm	d2 mm	g
3081 0150	15	17	65	20,9	18,0	140
3081 0170	17	17	65	23,4	18,0	150
3081 0190	19	20	65	26,0	20,0	150
3081 0210	21	20	65	28,0	20,0	150
3081 0220	22	23	65	30,0	20,0	160

## ■ 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



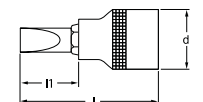
Art. Code		t mm	l mm	d1 mm	d2 mm	g
3090 0060	E6	7	28	10	17	27
3090 0070	E7	7	28	10	17	27
3090 0080	E8	7	28	10	17	27
3090 0100	E10	8	28	12	17	28
3090 0110	E11	8	28	13	17	29
3090 0120	E12	8	28	14	17	30
3090 0140	E14	10	28	15	17	34

## ■ 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

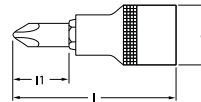


Art. Code	mm	mm	l mm	l1 mm	d mm	g
3076 0070	1,0	7	48	22	18	27
3076 0080	1,2	8	48	22	18	28
3076 0090	1,6	9	48	22	18	29

## Screwdriver Bit Sockets (PH)



- For cross-slotted screws PH
  - Extra hard tips made of special steel
  - Square drive acc. to DIN 3120 - C 10 / ISO 1174
  - With non-slip cross knurling
  - Standard: DIN ISO 8764-1 PH
- Material: Chrome Vanadium / tip made of special steel



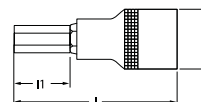
Art. Code	PH	l mm	l1 mm	d mm	g
3077 0001	1	48	22	18	27
3077 0002	2	48	22	18	28
3077 0003	3	48	22	18	29



## Screwdriver Bit Sockets (Hex)



- For hexagon socket screws
  - Extra hard tips made of special steel
  - Square drive acc. to DIN 3120 - C 10 / ISO 1174
  - With non-slip cross knurling
  - Standard: DIN 7422
- Material: Chrome Vanadium / tip made of special steel



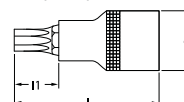
Art. Code	mm	l mm	l1 mm	d mm	g
3078 0040	4	48	22	18	35
3078 0050	5	48	22	18	35
3078 0060	6	48	22	18	36
3078 0070	7	48	22	18	38
3078 0080	8	48	22	18	40
3078 0100	10	48	22	18	48
3078 1040	4	92	66	18	68
3078 1050	5	92	66	18	68
3078 1060	6	92	66	18	68
3078 1070	7	92	66	18	68
3078 1080	8	92	66	18	70
3078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



## 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	mm	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	36
3079 0100	M10	48	22	18	40
3079 1080	M8	92	66	18	70
3079 1100	M10	92	66	18	82

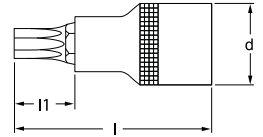


## ■ Screwdriver Bit Sockets (TORX®)



- 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 0100 T10	48	22	18	34
3092 0150 T15	48	22	18	34
3092 0200 T20	48	22	18	34
3092 0250 T25	48	22	18	34
3092 0270 T27	48	22	18	34
3092 0300 T30	48	22	18	35
3092 0400 T40	48	22	18	35
3092 0450 T45	48	22	18	37
3092 0500 T50	48	22	18	45
3092 0550 T55	48	22	18	45



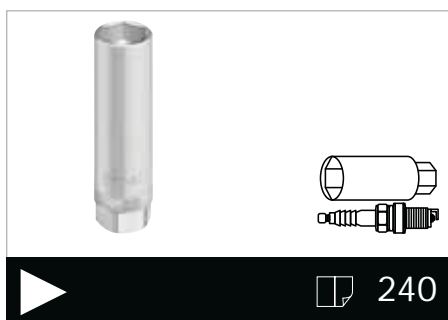
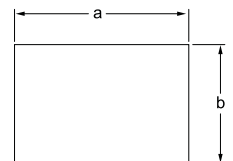
Art. Code	l mm	l1 mm	d mm	g
3092 1150 T15	92	66	18	68
3092 1200 T20	92	66	18	68
3092 1250 T25	92	66	18	68
3092 1270 T27	92	66	18	68
3092 1300 T30	92	66	18	70
3092 1400 T40	92	66	18	71
3092 1450 T45	92	66	18	100
3092 1500 T50	92	66	18	110
3092 1550 T55	92	66	18	110

## ■ 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

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

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

In solid metal case.



## ■ Socket Sets 10 (3/8)



Art. Code	Icons	a mm	b mm	g	Box
3115 9211	24 MM METRIC, 12	315	115	2400	1
3061	10 3/8				
3065	10 3/8			125, 250 mm	
3068	10 3/8				
3075	10 3/8			6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 mm	

## ■ Socket Sets (TORX®) 10 (3/8)



Art. Code	Icons	a mm	b mm	g	Box
3125 9390	39 MM TORX METRIC, 6	445	185	3200	1
3125 9391	39 MM TORX METRIC, 12	445	185	3200	1
3125 9350	35 AF, 6	445	185	3200	1
3061	10 3/8				
3065	10 3/8			125, 250 mm	
3068	10 3/8				
3075	10 3/8			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	10 3/8			4 - 5 - 6 - 7 - 8 - 10 x 48 mm	
3090	10 3/8			E8 - E10 - E11 - E12 - E14	
3092	10 3/8			T15 - T20 - T25 - T27 - T30 - T40 - T45 x 48 mm	

# The new MATADOR Z90 reversible ratchet in 6.3 (1/4").

More teeth. More power. More grip. More applications. More design.

## 25%

reduced angle (only 4°) compared to standard fine-toothed ratchets thanks to an innovative 90-teeth technique. Still ready for working even when it gets really tight.



12,5 mm  
1/2"



## max.

ergonomics thanks to multi-component handle, better than standard 1- or 2-component handles. Optimally adapted, spherical shape.

## 50%

more torque than requested in the DIN standard (e.g. 12.5 mm (1/2") > 750 N·m). Still loosens screws when others have long given up.

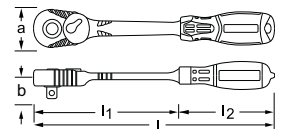
## 4°

### ■ Reversible Ratchet



- Extremely robust square shank made of Chrome Vanadium steel for high resilience in every situation
- Push-button lock for a safe connection between ratchet and socket
- Recessed, flat lever for quick change of direction
- Fine-toothed with 90 teeth, only 4° swivel angle
- For hand-operated sockets and adapters
- Practical hanging loop to secure the ratchet during construction work or to hang on a tools panel

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



Art. Code	mm	"	l mm	l1 mm	l2 mm	a mm	b mm	g	
4061 0090	12,5	1/2	275	165	110	37,7	42,2	539	10
4061 0092	6,3 - 12,5	1/4 - 1/2	Double Pack						1
4061 0093	6,3 - 10 - 12,5	1/4 - 3/8 - 1/2	Triple Pack						1
4061 0099	Repair Kit							135	1

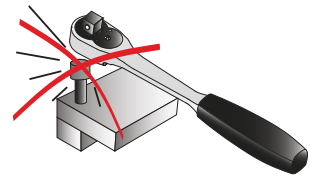




Care instructions  
for ratchets.

High quality ratchets from MATADOR can be used for a lifetime operation, if they are treated with a little care:

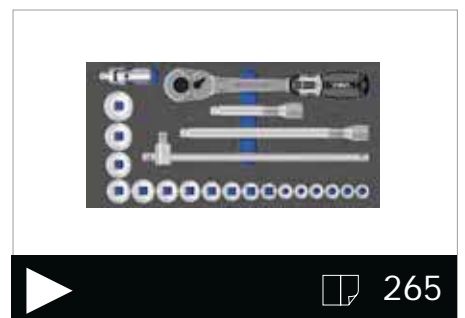
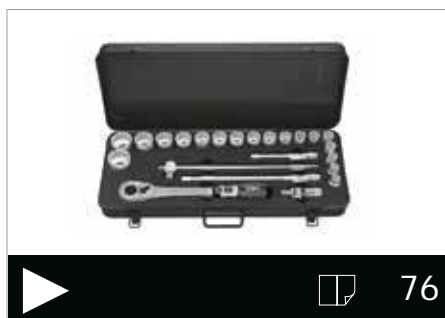
Never use the ratchet as a hammer!



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



12,5  
mm  
1/2

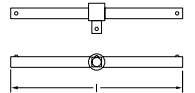


## ■ Sliding T-Handle

**1/2** **12,5 mm**

- 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



Art. Code	mm	"	l mm	g
4064 0001	12,5	1/2	300	380

## ■ Extensions

**1/2** **12,5 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 12.5 and C 12.5 / ISO 1174

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



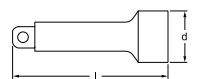
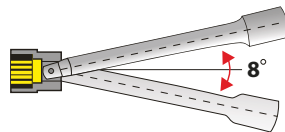
Art. Code	mm	"	mm	"	d mm	l mm	l "	g
4065 0001	12,5	1/2	12,5	1/2	25	75	3	120
4065 0002	12,5	1/2	12,5	1/2	25	125	5	220
4065 0003	12,5	1/2	12,5	1/2	25	250	10	400

## ■ Extensions (Wobble Type)

**1/2** **12,5 mm** **1/2** **12,5 mm**

- 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



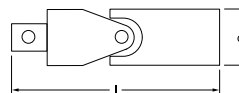
Art. Code	mm	"	mm	"	d mm	l mm	l "	g
4066 0001	12,5	1/2	12,5	1/2	25	125	5	220
4066 0002	12,5	1/2	12,5	1/2	25	250	10	430

## ■ Universal Joint

1/2 12,5 mm 1/2 12,5 mm

- 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



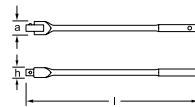
Art. Code	mm	"	mm	"	l mm	g
4068 0001	12,5	1/2	12,5	1/2	75	160

## ■ Swivel Handle

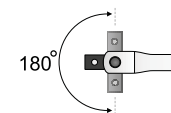
1/2 12,5 mm

- 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

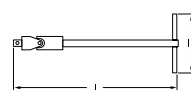


## ■ T-Handle Extension

1/2 12,5 mm 1/2 12,5 mm

- 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" mm	l1 mm	l1"	g
4074 0001	12,5	1/2	12,5	1/2	500	20	200	8	750

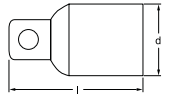
## ■ Reducer

**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

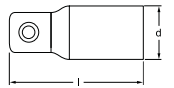
## ■ Converter

**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

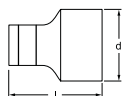
## ■ Bit Adapters

**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

# MATADOR Super Chrome.

## The original since 1934.

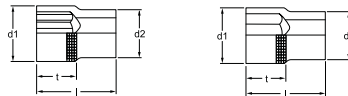
The perfect surface treatment.



### ■ 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

■ 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

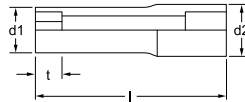




## ■ Sockets, long type



- 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 0161	16	--	--	31	77	21,0	22	130	5
4081 0170	17	4081 1170	17	31	77	24,0	22	145	5
4081 0181	18	--	--	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

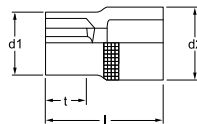


12,5 mm  
1/2

## ■ 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	d1 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

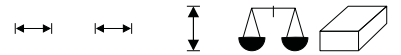
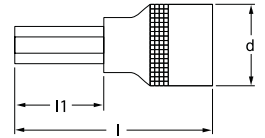


## ■ Screwdriver Bit Sockets (Hex)

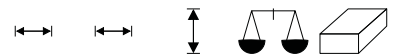


- For hexagon socket screws
- Extra hard tips made of special steel
- In standard length (62 mm) or extra long for deep screw connections (100 mm)
- For hand operation
- Square drive acc. to DIN 3120 - C 12.5 / ISO 1174
- With non-slip cross knurling
- MATADOR Super-Chrom for long-lasting rust protection

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



Art. Code	mm	l mm	l1 mm	d mm	g
4078 0040	4	62	24	24	88
4078 0050	5	62	24	24	89
4078 0060	6	62	24	24	89
4078 0070	7	62	24	24	90
4078 0080	8	62	24	24	91
4078 0100	10	62	24	24	95
4078 0120	12	62	24	24	107
4078 0140	14	62	24	24	121
4078 0170	17	62	24	26	162
4078 0190	19	62	24	26	170



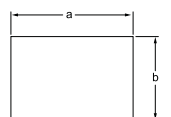
Art. Code	mm	l mm	l1 mm	d mm	g
4078 1040	4	100	62	24	95
4078 1050	5	100	62	24	100
4078 1060	6	100	62	24	103
4078 1070	7	100	62	24	105
4078 1080	8	100	62	24	108
4078 1100	10	100	62	24	122
4078 1120	12	100	62	24	130
4078 1140	14	100	62	24	135
4078 1170	17	100	62	26	140
4078 1190	19	100	62	26	150

## ■ 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



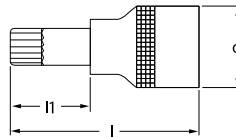
Art. Code	a mm	b mm	g
4078 9090	170	105	1200

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

## ■ 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 1180	M18	100	62	24	140	10

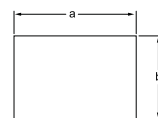


12,5 mm  
1/2

## ■ 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

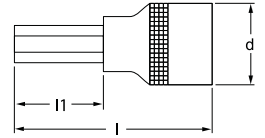


## ■ Screwdriver Bit Sockets (RIBE®)



- 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

## ■ 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

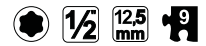
- Material: Chrome Vanadium / tip made of special steel
- Surface: Super-Chrom / tip manganese phosphated



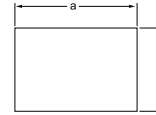
Art. Code	l mm	l1 mm	d mm	g	
4092 0200 T20	62	24	24	59	10
4092 0250 T25	62	24	24	84	10
4092 0270 T27	62	24	24	86	10
4092 0300 T30	62	24	24	88	10
4092 0400 T40	62	24	24	89	10
4092 0450 T45	62	24	24	90	10
4092 0500 T50	62	24	24	91	10
4092 0550 T55	62	24	24	94	10
4092 0600 T60	62	24	26	104	10
4092 0700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

## ■ 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



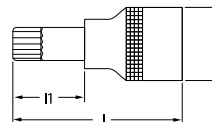
Art. Code	a mm	b mm	g	
4092 9090	170	105	1100	1

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

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



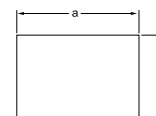
Art. Code		l mm	l1 mm	d mm	g	
4093 0200	TR20	62	24	24	59	10
4093 0250	TR25	62	24	24	84	10
4093 0270	TR27	62	24	24	86	10
4093 0300	TR30	62	24	24	88	10
4093 0400	TR40	62	24	24	89	10
4093 0450	TR45	62	24	24	90	10
4093 0500	TR50	62	24	24	91	10
4093 0550	TR55	62	24	24	94	10
4093 0600	TR60	62	24	26	104	10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



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

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

In solid metal case.



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.



## Socket Sets 12.5 (1/2)



Art. Code		a mm	b mm	g	
4114 9230		445	185	4400	1
4114 9231		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

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



Art. Code		a mm	b mm	g	
4118 9230		445	185	5800	1
4118 9231		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
- 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



# MATADOR practical add-ons.

In solid metal case.



**MFS** MATADOR  
FOAM SYSTEM.

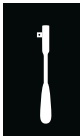
With black foam inlay,  
resistant against oil and  
lubricants.

**METAL**

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

T8 - T60

E4 - E24



12,5  
mm  
1/2

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

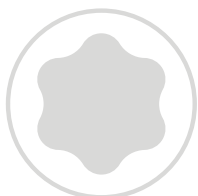


Art. Code						a mm	b mm	g	
4181 9170						445	185	3800	1
4181 9171						445	185	3800	1
						4081	10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 - 21 - 22 - 24 - 27 30 - 32 x 80 mm		
						4081	16 - 18 - 20,8 mm		

## Screwdriver Sockets Set (TORX<sup>®</sup>)

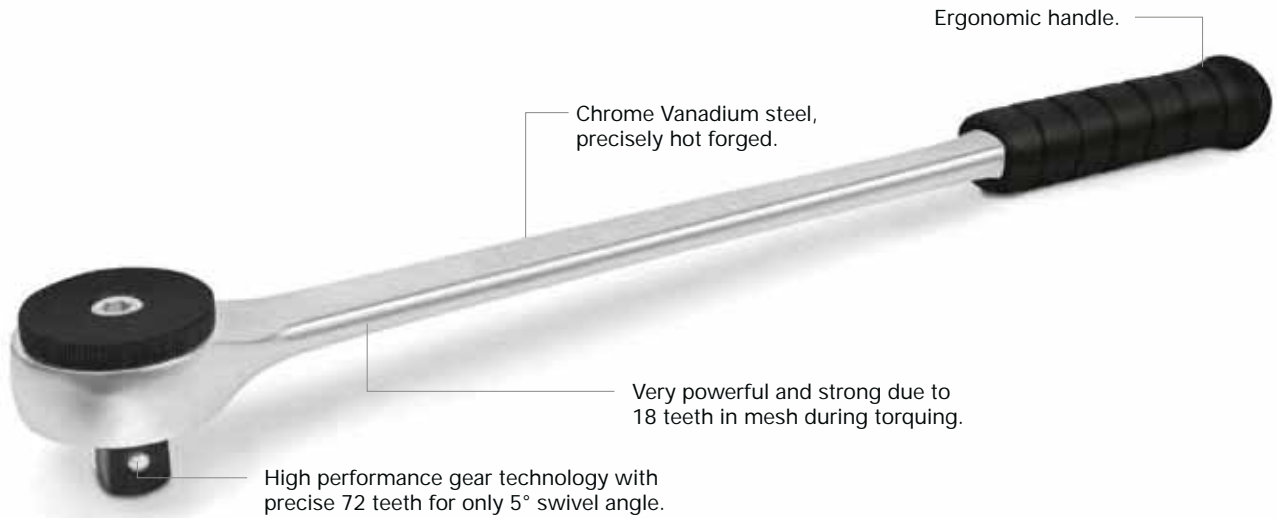


Art. Code								a mm	b mm	g	
4192 9310								315	115	3400	1
								2090	E4 - E5 - E6 - E7 - E8 - E10 - E11		
								2092	T8 - T10 - T15 - T20 - T25 - T27 - T30 - T40 x 32 mm		
								4090	E12 - E14 - E16 - E18 - E20 - E22 - E24		
								4092	T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60 x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



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

For heavy maintenance in industry and workshop.

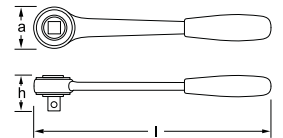


## ■ Reversible Ratchet (72 T)



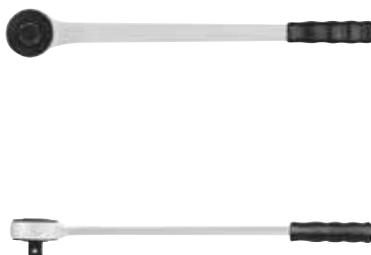
- With non-slip metal disc change
- Fine-toothed with 72 teeth
- For hand-operated sockets and accessories with locking pin
- Standards: DIN 3122 / ISO 3315

- Material: Chrome Vanadium
- Surface: Matt chrome finish



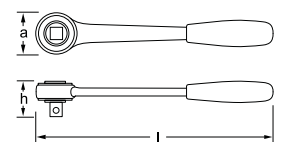
Art. Code	mm	"	l mm	a mm	h mm	g	
5060 0001	20	3/4	510	65	60	2050	5
5060 0010	Repair Kit					450	1

## ■ 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



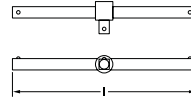
Art. Code	mm	"	l mm	a mm	h mm	g	
5062 0001	20	3/4	510	65	60	1850	5
5062 0002	20	3/4	52	19	19	140	1
5062 0010	Repair kit					450	1
5062 0012	Repair kit for 50620015					450	1

## Sliding T-Handle

**3/4 20**

- 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



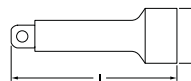
Art. Code	mm	"	l mm	g	
5064 0001	20	3/4	505	1420	5

## Extensions

**3/4 20 3/4 20**

- 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



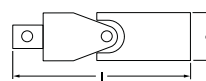
Art. Code	mm	"	mm	"	d mm	l mm	l" mm	g	
5065 0001	20	3/4	20	3/4	36	200	8	650	5
5065 0002	20	3/4	20	3/4	36	400	16	1150	5

## Universal Joint

**3/4 20 3/4 20**

- 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



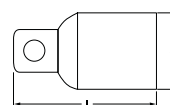
Art. Code	mm	"	mm	"	d mm	l mm	g	
5068 0001	20	3/4	20	3/4	40	105	550	5

## Reducer

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

- 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

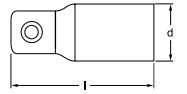


Art. Code	mm	"	mm	"	d mm	l mm	g	
5082 0001	12.5	1/2	20	3/4	40	55	210	5



- 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

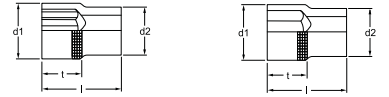


Art. Code	mm	"	mm	"	d mm	l mm	g	
5083 0001	25	1	20	3/4	38	63	370	5

**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
5075 0220	22	5075 1220	22	19	50	33	36	220
5075 0240	24	5075 1240	24	20	50	35	36	220
5075 0270	27	5075 1270	27	24	52	38	36	230
5075 0300	30	5075 1300	30	26	54	42	38	290
5075 0320	32	5075 1320	32	27	56	44	38	300
5075 0330	33	5075 1330	33	27	56	44	40	350
5075 0340	34	5075 1340	34	27	56	47	42	370
5075 0360	36	5075 1360	36	28	58	50	42	430
5075 0380	38	5075 1380	38	28	60	52	45	490
5075 0410	41	5075 1410	41	31	64	56	45	540
5075 0460	46	5075 1460	46	33	68	62	48	630
5075 0500	50	5075 1500	50	35	72	68	48	840
5075 0550	55	5075 1550	55	35	76	74	48	870
5075 0600	60	5075 1600	60	35	78	80	48	950

Art. Code	"AF	t mm	l mm	d1 mm	d2 mm	g
5075 8001	7/8	14,0	50	32,2	36	200
5075 8002	15/16	16,5	51	34,2	36	200
5075 8003	1	16,5	52	37,0	36	250
5075 8004	1.1/16	22,0	52	38,0	36	260
5075 8005	1.3/16	24,0	54	42,0	36	280
5075 8006	1.1/4	24,0	56	44,0	36	320
5075 8007	1.3/8	26,0	58	48,0	38	350
5075 8008	1.7/16	28,0	58	50,0	38	420
5075 8009	1.1/2	28,0	60	52,0	38	460
5075 8010	1.5/8	30,0	64	56,0	40	490
5075 8011	1.13/16	32,0	66	62,0	42	650
5075 8012	1.7/8	34,0	68	64,0	42	670
5075 8013	2	34,0	70	68,0	42	700
5075 8014	2.1/16	36,0	72	70,0	45	750
5075 8015	2.1/4	40,0	76	76,0	45	820



# MATADOR Socket Sets in 20 mm (3/4"). For trucks and heavy industry. In solid metal case.



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

**METAL**

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



20  
mm  
3/4

## Socket Sets 20 (3/4)



## Socket Sets 20 (3/4)



Art. Code	Icons	a mm	b mm	g	Box
5142 9140	14 MM SMART DRIVE 6	575	220	12700	1
	20 3/4				
	20 3/4				
	12.5 1/2				

Art. Code	Icons	a mm	b mm	g	Box
5143 9160	16 MM SMART DRIVE 6	575	220	13500	1
5143 9161	16 MM SMART DRIVE 12	575	220	13500	1
5143 9163	16 MM SMART DRIVE 6	575	220	13500	1
5143 9164	16 MM SMART DRIVE 12	575	220	13500	1
	20 3/4				
	20 3/4				
	12.5 1/2				

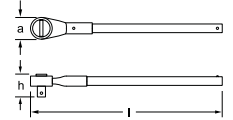
## ■ Reversible Ratchet

60° 1 25 mm



- Fine-toothed with 60 teeth
- For hand-operated sockets
- 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
6060 0010	Repair Kit					300

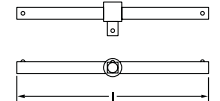
## ■ Sliding T-Handle

1 25 mm



- 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

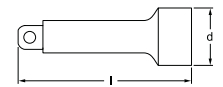
## ■ Extensions

1 25 mm 1 25 mm



- 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

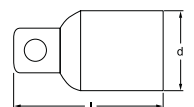
## ■ Reducer

3/4 20 mm 1 25 mm



- 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



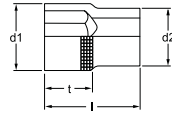
Art. Code	mm	"	mm	"	d mm	l mm	g
6082 0001	20	3/4	25	1	48	63	450



## ■ 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
6075 0410	41	32	69	60	51	750
6075 0460	46	34	75	69	52	900
6075 0500	50	34	75	71	54	1000
6075 0550	55	40	82	77	57	1100
6075 0600	60	42	84	84	57	1500
6075 0650	65	44	87	88	55	1600
6075 0700	70	48	93	94	60	1750
6075 0750	75	52	97	102	60	2100
6075 0800	80	54	103	105	68	2300



## ■ 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	730	256	28500

6060  
 6064 640 mm  
 6065 200, 400 mm  
 6075 36 - 41 - 46 - 50 - 55 - 60 - 65 - 70 - 75 - 80 mm



## ■ 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



# Torque Control.

Be a MATADOR.



## Content Torque Control.

Page Article group



### Torque Wrenches.

93	Torque Screwdrivers
94	Mini Torque Wrench EasyTorque
95	Torque Wrenches ECO
96	Torque Wrenches UNO
98	Torque Wrenches VDE



### Insert Tools.

101	Insert Reversible Ratchets
101	Insert Weld-On Fittings
101	Insert Adapter
101	Insert Square Heads
102	Insert Bit Holders
102	Open End Insert Tools
103	Ring End Insert Tools
103	Flared Ring End Insert Tools
103	Set of Ring End Insert Tools 14 x 18



### Multipliers.

105	Torque Multipliers
-----	--------------------



# MATADOR torque technique. The basics of controlled tightening.

Whenever it must be safe.



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.

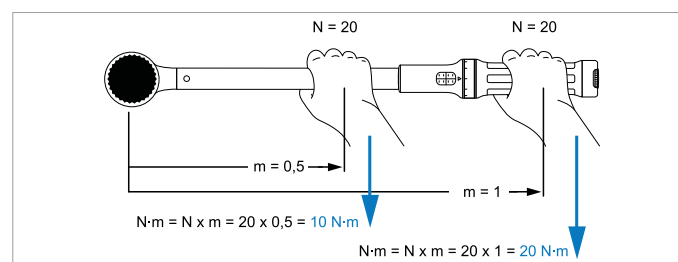
Nowadays for nearly 100% of all industrial screw connections controlled tightening is required.

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).

Torque wrenches measure the force

$$M = F \cdot r$$

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.

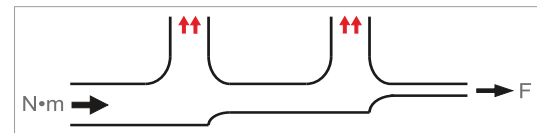
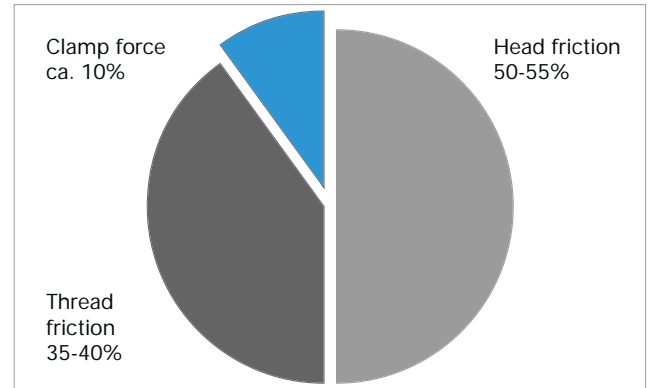
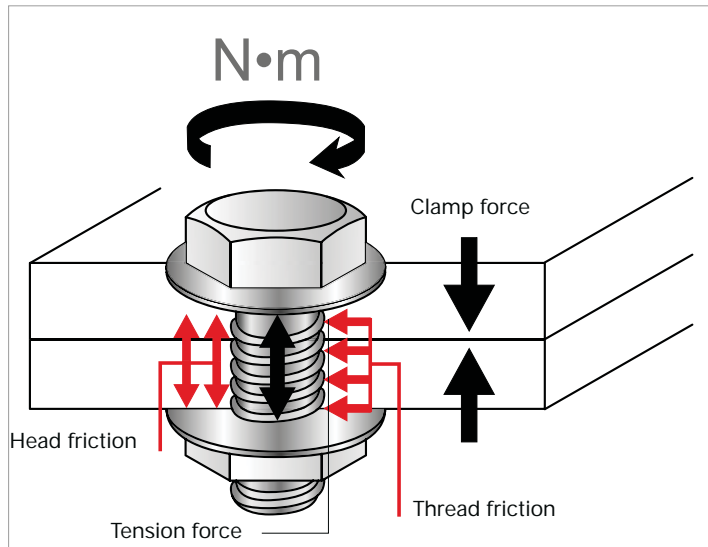
The largest instability factor during tightening is friction that occurs at the thread and below the screw head.

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.

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

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



Higher level of accuracy through torque angle.

Minimizing friction to a minimum level.

Each screw is different.

Torque technique for professionals.

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.

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.

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

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

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

The cut-out torque is monitored and documented via internal memory or PC interface.

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.

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

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).

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.

We will be pleased to assist you.

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

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.

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.

from 1...	x Factor=	to...	from 1...	x Factor=	to...
<b>Metric measure units</b>					
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
<b>American and British measure units</b>					
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

# The right torque wrench.

It depends on the case of application.



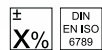
## Dial type or click type?

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  $\pm 6\%$  up to  $\pm 4\%$ .

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.



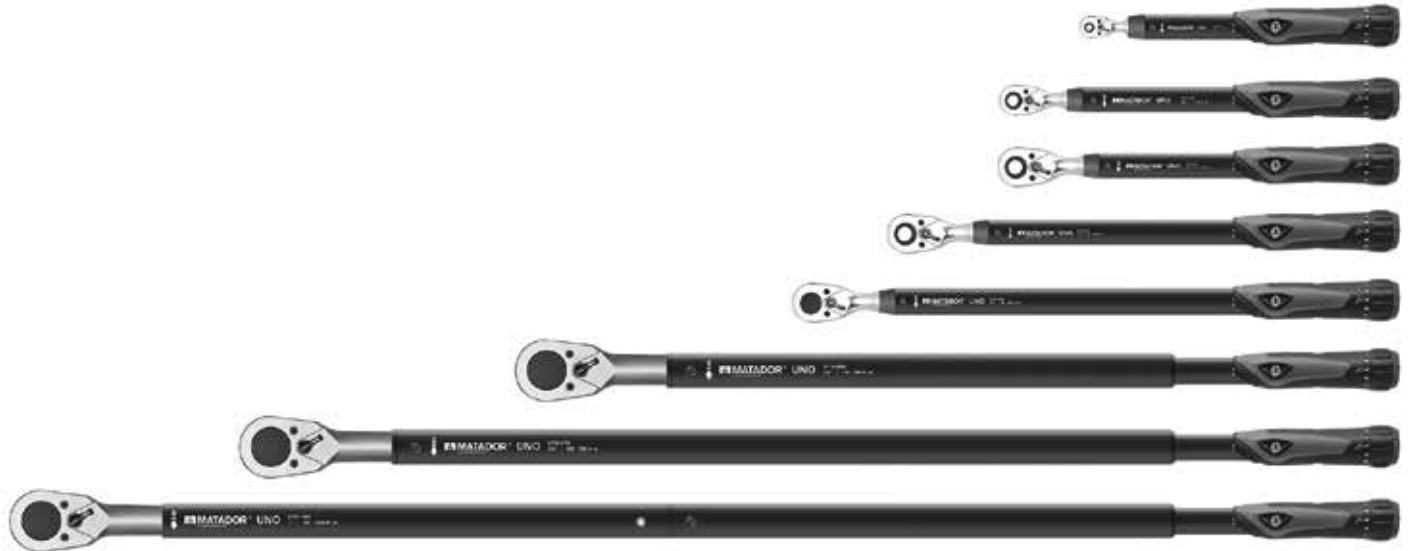
Calibration certificate MATADOR















# Overview.

## Torque wrenches from 0.1 - 2000 N·m.

Reduction to the essential.



Dial or click type. From 6.3 (1/4") up to 25 (1") square drive.  
 With or without angle function. From 5% up to 3% 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	"
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
6173 0002		6173	Mini Torque Wrenches EasyTorque, for fine mechanics, 2 - 20 N-m, with calibration certificate		± 4%	DIN EN ISO 6789	2 - 20	6,3	1/4
6172 0010							10 - 110	10,0	3/8
6172 0020		6172	Torque Wrenches ECO, for semi-professional use, 10 - 350 N-m, with calibration certificate		± 4%	DIN EN ISO 6789	28 - 210	12,5	1/2
6172 0030							50 - 350	12,5	1/2
6175 0025							1 - 25	6,3	1/4
6175 0050							5 - 50	10,0	3/8
6175 0100							10 - 100	12,5	1/2
6175 0200		6175	Torque Wrenches UNO, for industry and automotive, 5 - 1.000 N-m, extremely precise and easy to use.		± 3%	DIN EN ISO 6789	20 - 200	12,5	1/2
6175 0340							56 - 340	12,5	1/2
6175 0550							102 - 550	20,0	3/4
6175 0750							140 - 750	20,0	3/4
6175 1000							190 - 1000	25,0	1
6175 5050							5 - 50	9x12	6,3 (1/4)
6175 5100		6175	Torque Wrenches UNO, for insert tools, 5 - 340 N-m, extremely precise and easy to use.		± 3%	DIN EN ISO 6789	10 - 100	9x12	6,3 (1/4)
6175 5200							20 - 200	14x18	12,5 (1/2)
6175 5340							56 - 340	14x18	12,5 (1/2)
Art. Code	Model	Art. Grp.	Short description	Type	Tolerance	Standard	Measuring range in N-m	mm	mm (")
6179 0025		6179	Torque Wrenches VDE, 5 - 220 N-m.		± 4%	DIN EN ISO 6789	5 - 25	10,0	3/8
6179 0100							20 - 100	12,5	1/2
6179 0200							44 - 220	12,5	1/2

# MATADOR service. Factory calibration and more in our own laboratory. Traceable to national standards.



## 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 recalibrated 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.

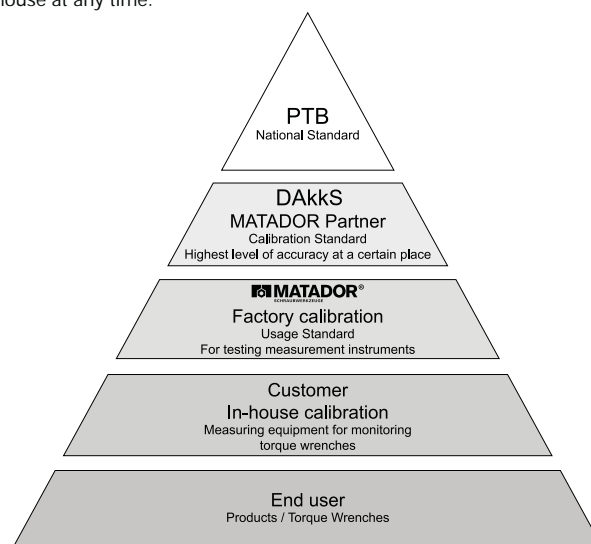
Please feel free to contact us.

## 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.



# MATADOR Torque Screwdriver.

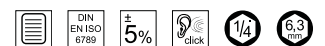
## Little effort - big effect.

Controlled screw tightening in confined spaces.



### ■ 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

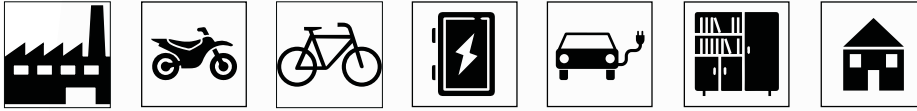


Art. Code	mm	"	cN·m	N·m	cN·m	N·m	l mm	g	
6170 0010	6,3	1/4	10-120	0,1-1,2	1,0	--	180	207	1
6170 0020	6,3	1/4	--	1-6		0,1	248	475	1



# Mini torque wrench EasyTorque.

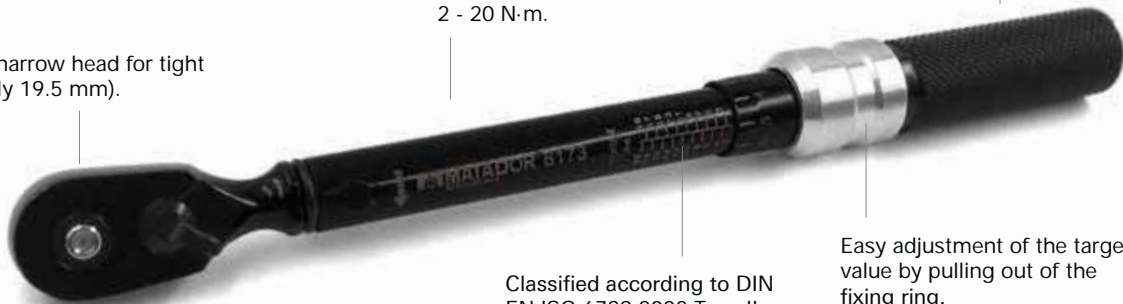
For all fine screw connections in industry and craft.



Black phosphatised metal handle.

$\pm 4\%$   
2 - 20 N·m.

Extremely narrow head for tight spaces (only 19.5 mm).



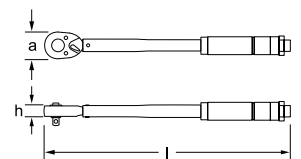
Classified according to DIN EN ISO 6789:2003 Type II Class A with a traceable factory certificate.

Easy adjustment of the target value by pulling out of the fixing ring.

## ■ Torque Wrench Easy Torque



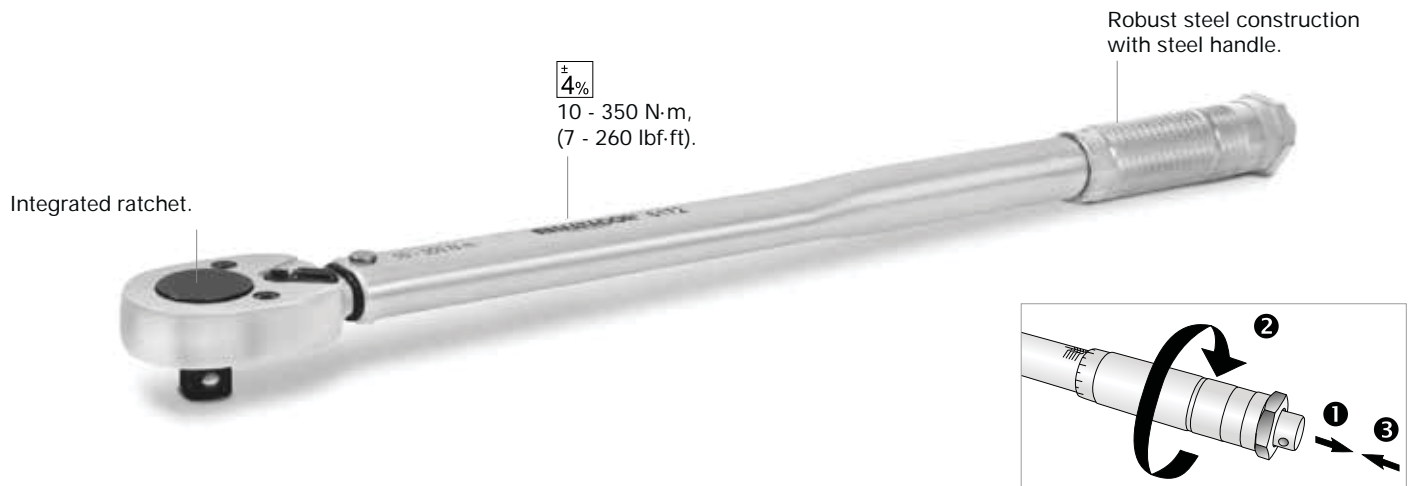
- Releasing torque spanner for precision screw connections
- Triggering accuracy  $\pm 4\%$  of the set scale value
- Repeatable and precise with at least 5,000 load changes
- For controlled clockwise and anti-clockwise tightening (therefore not suitable for loosening)
- Fine-toothed with 72 teeth
- Scale with N·m, audible and tactile short-travel release, metal handle and easy locking and unlocking with locking ring
- Permanently legible double scale with steel embossing in N·m with fine adjustment
- Clearly audible release
- With square drive to DIN 3120 - ISO 1174 with ball lock and integrated lever changeover ratchet
- With traceable factory calibration certificate in accordance with DIN EN ISO 6789 In attractive self-service packaging



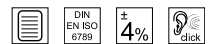
Art. Code	mm	"	N·m	N·m	a mm	h mm	l mm	g	
6173 0002	6,3	1/4	2 - 20	1	19,5	15,0	195	325	1

# MATADOR Torque Wrenches ECO. Save your budget.

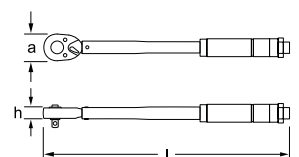
For semi-professional use.



## ■ 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
6172 0020	12,5	1/2	28 - 210	3 - 21	1	0,1	46,0	17,5	470	800
6172 0030	12,5	1/2	50 - 350	5 - 35	1	0,1	41,0	20,5	630	1000

# Torque wrenches UNO.

One window. One value. One grip. One click.



Art. Code	mm / "	N-m	g
6175 0010	6.3 mm 1/4	1 - 25	Repair Kit UNO
6175 0011	10 mm 3/8	5 - 50	Repair Kit UNO
6175 0012	12.5 mm 1/2	10 - 100	Repair Kit UNO
6175 0013	12.5 mm 1/2	20 - 200	Repair Kit UNO
6175 0016	12.5 mm 1/2	56 - 340	Repair Kit UNO
6175 0014	20 mm 3/4	102 - 550	Repair Kit UNO
6175 0015	25 mm 1	190 - 1000	Repair Kit UNO



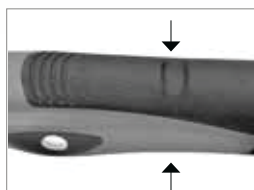
## Make complicated things simple.



Easy setting at the end of the handle.



Only one window with clear numeric value in N-m.



Error-free handling thanks to double-sided finger grooves.



Integrated lever ratchet with small head to reach tiny areas.



Well protected in solid plastic case.



## Extremely precise and easy to use.

The new professional torque wrench by MATADOR with an **absolutely innovative operating concept**:

**Easy setting** with extra fine graduation (from 0.5 N·m to 1.0 N·m on larger models), **only one window with clear numeric value in N·m**. No division scale which is difficult to read.

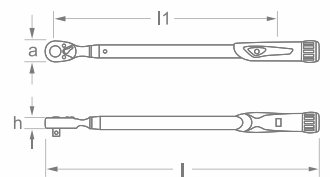
With small ratchet head to reach tiny spaces, with lever and 48 teeth, safety lock and quick-release function. Permanent protection of the body thanks to full powder coating.

The handy and ergonomically optimal design of the handle with its integrated finger grooves make the correct use a breeze. Clearly audible and perceptible signal when the desired torque value is reached.

The MATADOR UNO is extremely precise: **maximum deviation only ±3%** from the set scale value. For controlled clockwise operation. With German calibration certificate according to DIN EN ISO 6789.



**From 5 - 1,000 N·m.**  
For industry and automotive.



Art. Code	mm / "	N·m	l1 mm	a mm	h mm	l mm	g	
6175 0025	6.3 mm 1/4	1 - 25	250	22.5	19.6	343	760	1
6175 0050	10 mm 3/8	5 - 50	322	31.2	26.7	419	983	1
6175 0100	12.5 mm 1/2	10 - 100	337	41.0	36.4	440	998	1
6175 0200	12.5 mm 1/2	20 - 200	435	41.0	36.4	540	1360	1
6175 0340	12.5 mm 1/2	56 - 340	538	41.0	36.4	640	1730	1
6175 0550	20 mm 3/4	102 - 550	827	58.0	55.0	938	4500	1
6175 0750	20 mm 3/4	140 - 750	1107	58.0	55.0	1218	5850	1
6175 1000	25 mm 1	190 - 1000	1393	67.0	67.0	1508	7426	1
6175 5050	9x12 mm	5 - 50	322	31.2	26.7	378	886	1
6175 5100	9x12 mm	10 - 100	322	31.2	26.7	378	886	1
6175 5200	14x18 mm	20 - 200	435	41.0	36.4	490	1180	1
6175 5340	14x18 mm	56 - 340	538	41.0	36.4	595	1554	1

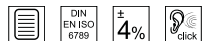
# Torque Wrenches VDE.

Safety first.

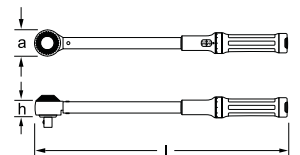
1000 V



## ■ Torque Wrenches VDE



- Click type torque wrench with reversible ratchet head
- 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
- Clearly palpable and audible torque release
- Double scale in N-m and lbf-ft
- Robust ratchet mechanism
- Large vision panel with magnifiers for optimal readability of the set values
- Ergonomic and hand-friendly handle
- 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



Art. Code	mm	"	N-m	lbf-ft	N-m	a mm	h mm	l mm	g
6179 0025	10,0	3/8	5 - 25	4 - 20	0,25	35	18	289	410
6179 0100	12,5	1/2	20 - 100	15 - 74	0,50	45	23	350	1378
6179 0200	12,5	1/2	44 - 220	32 - 162	0,50	45	23	412	1500







# Insert tools for rectangular tool holders.

Directly from certified manufacturer.

For rectangular cavities sized 9 x 12 or 14 x 18 mm.

With depth gauges (s<sub>k</sub>) 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<sub>xW</sub>) has to be adjusted by a correction factor.

Example:

Correction of the set torque value:

Desired tightening torque M<sub>A</sub> = 180 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<sub>w</sub>) 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.

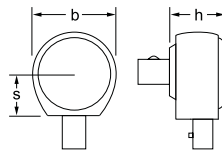
In these cases and also when using adapters the desired tightening torque (M<sub>A</sub>) has to be corrected by the linear factor with the help of the following formula:

Modell	W	h	h <sub>1</sub>	h <sub>2</sub>	h <sub>3</sub>	h <sub>4</sub>	h <sub>5</sub>	h <sub>6</sub>	h <sub>7</sub>	h <sub>8</sub>	h <sub>9</sub>	h <sub>10</sub>	h <sub>11</sub>	h <sub>12</sub>	h <sub>13</sub>	h <sub>14</sub>	h <sub>15</sub>	h <sub>16</sub>	h <sub>17</sub>	h <sub>18</sub>	h <sub>19</sub>	h <sub>20</sub>	
BR 001	3x12	14x10	4x17	6x25	20	175	155	40	1														
BR 002	3x12	14x18	6x75	6x50					1														
BR 003	14x18	18x18	14x18	14x18	1.00	120	120	90	1														
BR 004	14x18	18x18	18x28	18x28	1.00	85	105	100	1														
BR 005	14x18	18x18	18x45	18x45	1.00	85	105	100	1														
BR 006	14x18	18x18	18x50	18x50	1.00	105	105	100	1														
BR 011	14x18	18x18	18x18	18x18	1.00	105	105	100	1														
BR 012	14x18	18x18	18x18	18x18	1.00	105	105	100	1														
BR 013	14x18	18x18	18x18	18x18	1.00	105	105	100	1														
BR 014	14x18	18x18	18x18	18x18	1.00	105	105	100	1														
BR 015	14x18	18x18	18x18	18x18	1.00	105	105	100	1														
BR 016	14x18	18x18	18x18	18x18	1.00	105	105	100	1														
BR 017	14x18	18x18	18x18	18x18	1.00	105	105	100	1														
BR 018	14x18	18x18	18x18	18x18	1.00	105	105	100	1														
BR 019	14x18	18x18	18x18	18x18	1.00	105	105	100	1														
BR 020	14x18	18x18	18x18	18x18	1.00	105	105	100	1														
BR 021	14x18	18x18	18x18	18x18	1.00	105	105	100	1														
BR 022	14x18	18x18	18x18	18x18	1.00	105	105	100	1														
BR 023	14x18	18x18	18x18	18x18	1.00	105	105	100	1														
BR 024	14x18	18x18	18x18	18x18	1.00	105	105	100	1														
BR 025	14x18	18x18	18x18	18x18	1.00	105	105	100	1														
BR 026	14x18	18x18	18x18	18x18	1.00	105	105	100	1														
BR 027	14x18	18x18	18x18	18x18	1.00	105	105	100	1														
BR 028	14x18	18x18	18x18	18x18	1.00	105	105	100	1														
BR 029	14x18	18x18	18x18	18x18	1.00	105	105	100	1														
BR 030	14x18	18x18	18x18	18x18	1.00	105	105	100	1														
BR 031	14x18	18x18	18x18	18x18	1.00	105	105	100	1														
BR 032	14x18	18x18	18x18	18x18	1.00	105	105	100	1														
BR 033	14x18	18x18	18x18	18x18	1.00	105	105	100	1														
BR 034	14x18	18x18	18x18	18x18	1.00	105	105	100	1														
BR 035	14x18	18x18	18x18	18x18	1.00	105	105	100	1														
BR 036	14x18	18x18	18x18	18x18	1.00	105	105	100	1														
BR 037	14x18	18x18	18x18	18x18	1.00	105	105	100	1														
BR 038	14x18	18x18	18x18	18x18	1.00	105	105	100	1														
BR 039	14x18	18x18	18x18	18x18	1.00	105	105	100	1														
BR 040	14x18	18x18	18x18	18x18	1.00	105	105	100	1														

$$M_{xW} = \frac{M_A \times l_k}{l_k + (s - s_k)}$$

## ■ Insert Reversible Ratchets

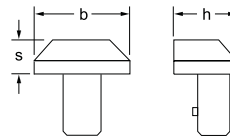
- With pin lock
- Material: Chrome-Vanadium
- Fine-toothed
- Surface: Matt chrome finish
- Max. load of coupler 9 x 12:  
6.3 (1/4) = 30 N·m, 10 (3/8) = 135 N·m,  
12.5 (1/2) = 150 N·m
- Max. load of coupler 14 x 18:  
12.5 (1/2) = 340 N·m, 20 (3/4) = 400 N·m



Art. Code	mm	mm	"	s mm	b mm	h mm	g	
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

## ■ Insert Weld-On Fittings

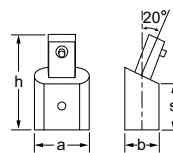
- With pin lock
- For welding special tools
- Welding surface 8 x 14 mm (9 x 12) and 11 x 25 mm (14 x 18)
- \*) = please consider the depth gauge (s) for correct calculation of the torque value



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

## ■ Insert Adapter

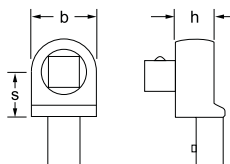
- Adapter for confined areas
- With 20° angle
- With pin lock
- \*) = please consider the depth gauge (s) for correct calculation of the torque value



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

## ■ 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

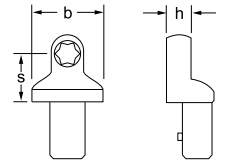


Art. Code	mm	mm	"	s mm	b mm	h mm	g	
6188 0001	9 x 12	6,3	1/4	17,5	20	14	70	1
6188 0002	9 x 12	10,0	3/8	17,5	20	14	76	1
6188 0003	9 x 12	12,5	1/2	17,5	20	14	80	1
6188 0004	14 x 18	12,5	1/2	25,0	27	18	210	1
6188 0005	14 x 18	20,0	3/4	25,0	40	25	400	1

## ■ Insert Bit Holders



- For inserting bits
- With pin lock
- Material: Chrome-Vanadium
- Surface: Matt chrome plated

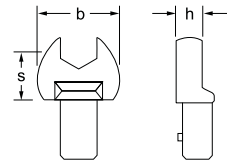


Art. Code	mm	mm	"	s mm	b mm	h mm	g	
6189 0001	9 x 12	6,3	1/4	17,5	14	10,0	47	1
6189 0002	9 x 12	8,0	5/16	17,5	16	12,5	47	1
6189 0003	14 x 18	8,0	5/16	25,0	16	12,5	115	1

## ■ 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



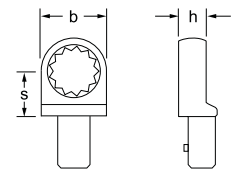
Art. Code	mm	mm	s mm	b mm	h mm	g	
6190 0070	9 x 12	7	17,5	22	5,0	37	1
6190 0080	9 x 12	8	17,5	22	5,0	38	1
6190 0090	9 x 12	9	17,5	26	5,5	37	1
6190 0100	9 x 12	10	17,5	26	5,5	42	1
6190 0110	9 x 12	11	17,5	26	5,5	40	1
6190 0120	9 x 12	12	17,5	30	7,0	41	1
6190 0130	9 x 12	13	17,5	30	7,0	46	1
6190 0140	9 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 1400	14 x 18	40	40,0*	82	15,0	315	1
6190 1410	14 x 18	41	40,0*	82	15,0	316	1





## Ring End Insert Tools

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 1380	14 x 18	38	31,0*	53,0	19	230	1
6191 1410	14 x 18	41	31,0*	59,0	20	235	1



## Set of Ring End Insert Tools 14 x 18

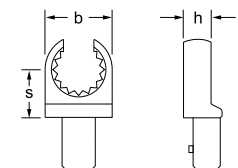
Art. Code	l mm	b mm	g	
6191 9110	445	185	1300	1

6186  
6191 13 - 16 - 17 - 19 - 21 - 22 - 24 - 27 - 30 - 32 mm



## Flared Ring End Insert Tools

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



# High Output Torque = Low Input Torque x Revolution.

The function principle of a torque multiplier.



## 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, use-able 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

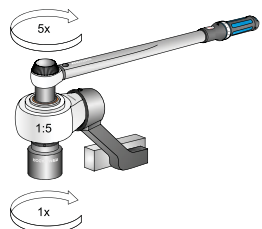
Input torque = 300 N·m / 220 lbf·ft

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.



# MATADOR Torque Multipliers. The solid compact class.

More power without long levers.

Heavy duty construction with planet gear mechanism with 3 precisely engineered gear stages and hardened gear wheels.

With reaction arm.



1.500 – 2.700 N·m  
(1100 - 2,000 lbf·ft).



Including plug-in reaction foot

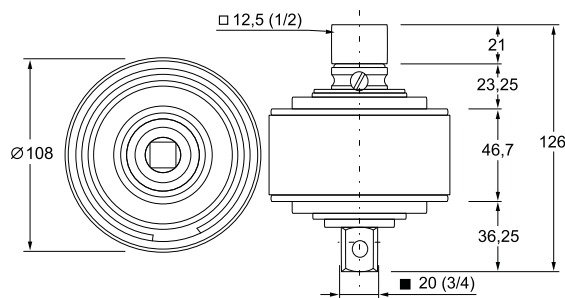


In solid plastic case

## ■ 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	Box
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


# Pneumatic Tools.


Be a MATADOR.




## Content Pneumatic Tools.


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111	Impact Wrenches 20 mm (3/4") and 25 mm (1")
112	Impact Wrenches 12.5 mm (1/2") „MiniMAX“
113	Impact Wrenches 25 mm (1") „FatCat“

	<b>Miscellaneous Air Tools.</b>
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115	Micro Die Grinder
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125	Impact Screwdriver Bit Socket Set, 6 pcs.
125	Impact Screwdriver Bit Sockets (XZN)
126	Impact Screwdriver Bit Socket Set, 6 pcs.
126	Impact Screwdriver Bit Sockets (TORX*)
126	Impact Screwdriver Bit Socket Set, 6 pcs.
127	Impact Screwdriver Bit Sockets (TORX*)
127	Impact Screwdriver Bit Socket Set, 9 pcs.
127	Impact Extension
128	Impact Universal Joint
128	Impact Reducer
128	Impact Converter
128	Safety Rings and Safety Pins

	<b>Impact Tools 20 (3/4).</b>
129	Impact Sockets
129	Impact Socket Set, 17 pcs.
130	Impact Sockets, long type
130	Impact Screwdriver Bit Sockets (TORX*)
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131	Impact Extensions
131	Impact Universal Joint
132	Impact Reducer
132	Impact Converter
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	<b>Impact Tools 25 (1).</b>
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134	Impact Sockets, long type
134	Impact Extensions
135	Impact Universal Joint
135	Impact Reducer
135	Impact Converter
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# MATADOR Pneumatic Tools. Powered screw tightening. At a push.



## 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!

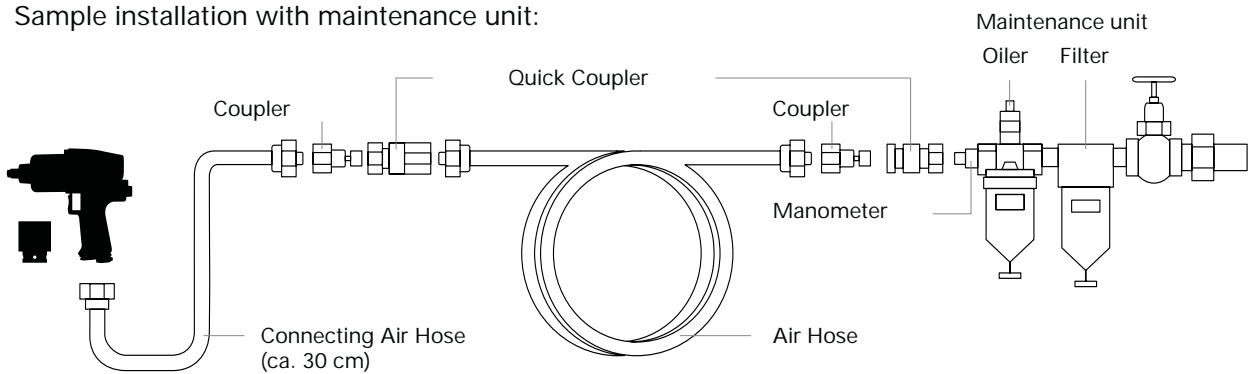


# Impact technology in a nutshell.

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 homogeneously 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.

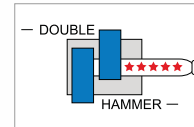


# Still working when others have long given up. MATADOR Impact Wrenches with composite housing. Maximum performance at low weight.

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.



High-performance Twin Hammer Clutch Mechanism



One-hand forward/reverse shift through practical push button

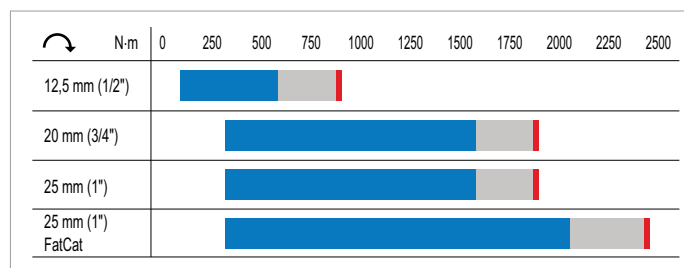
What really matters.

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

MATADOR impact wrenches use only top class twin hammer clutch mechanisms, also in (3/4") and 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 icontinuous torque progression.

Superior quality at a reasonable price.

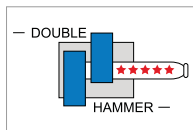


3 performance classes from 813 - 2441 maximum torque (N·m)

## ■ 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

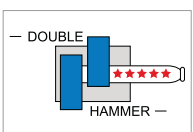


Art. Code	mm	"	mm	g	
7000 0001	12,5	1/2	183	1900	1

## ■ 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

# MATADOR MiniMAX. Powerful 1.275 Nm. Only 1,27 kg. Only 94 dB(A). High-performance meets handiness.

Extremely powerful  
Jumbo hammer clutch.

With one-hand switchover.

- EXTREMELY LOW NOISE.
- EXTREMELY LIGHT.
- EXTREMELY POWERFUL.



## ■ Impact Wrenches 12,5 (1/2) „MiniMAX“

1/2 12.5 mm



	Maximum loosening torque	N-m ft-lbs	1275 940
	Maximum torque	N-m ft-lbs	678 500
	Recommended torque	N-m ft-lbs	68-746 50-550
	Sound pressure level	dB(A)	94
	Idle speed	U/min rpm	10000
	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)

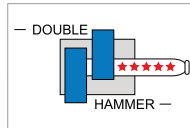
- High-performance impact wrench with outstanding technical features
- Extremely small (only 98 mm length)
- extremely powerful 1.275 N-m loosening torque
- Only 94 dB(A) sound pressure level
- Jumbohammer clutch
- Ultra light 1,2 kg weight (composite housing)
- One-hand switchover
- Extremely low vibration, ideal for continuous operation
- Exhaust air guided downwards through the handle
- Including coupler



Art. Code	mm	"	mm	g	
7000 0011	12,5	1/2	98	1270	1

# MATADOR FatCat. Powerful 2.440 Nm. Only 7.3 kg. Only 96 dB(A). Maximum performance at low weight.

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.



Including anvil  
185 mm (7.3").



Side support handle for less fatiguing operation.

Rear exhaust.

Multiple power settings in forward and reverse.

2 air inlets (downwards and sideways/backwards).

## Impact Wrenches 25 mm (1") „FatCat“

**1** 25 mm

	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

- 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 7.3 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



Art. Code	mm	"	mm	g	
7000 0004	25	1	324	7300	1



# Ratchet Wrenches with especially low air consumption. For constant impact.

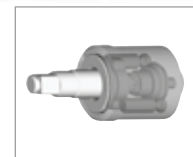
Small. Handy. Resilient.

Anti-deformation ratchet head for extra stability and better power transmission.

Power regulator for variable adjustment of speed and performance depending on the application.

Ultra lightweight housing.

High-performance pin clutch impact mechanism for continuous torque progression - saves your knuckles.



## ■ Mini Ratchet Wrench 6.3 mm (1/4")

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



	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

- 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









Art. Code	mm	"	mm	g	
7001 0001	6,3	1/4	177	500	1









## 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



## Die Grinder, straight

	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

- 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



					
Art. Code	mm	"	mm	g	
7004 0001	6,3	1/4	188	700	1



## The MATADOR Air Duster.

For cleaning and removing of swarfs and other particles.



### ■ 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			
	7003 0001	mm	g	
		130	100	1

## ■ Mini Grease Oil

- For the lubrication of impact tools
- Contents: 100 ml
- With lockable nozzle



				
Art. Code		g		
7005 0002		250	1	

## ■ Oil Regulator

- For automatic oiling of impact tools
- Refillable
- Assembly directly in the access direction






				
Art. Code	"	l mm	g	
7005 0014	1/4	54	110	1

## ■ PU compressed air spiral coiled tube

- Flexible, crush resistant polyurethane hose (PU)
- Max. 12 bar / 174 psi
- Tube ends with anti kink device
- Rotating fitting
- Flexible in cold
- Oil and petrol resistant

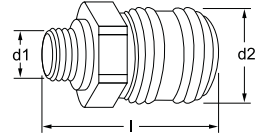


				
Art. Code	OW	mm	l m	g
7005 0005	6	10	8	600
				1

## ■ Quick Coupler with male thread



- For one handed operation
- Non return valve
- Self sealing on the coupling
- Spanner Size 22

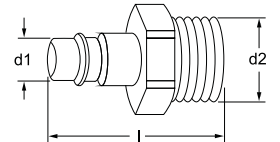


Art. Code	d2 *	mm	l mm	d1 mm	g	
7005 0101	1/4	22	35	22	70	1
7005 0102	3/8	22	36	22	90	1
7005 0103	1/2	22	38	22	90	1

## ■ Male Coupler with male thread



- Spanner Size 17, 19, 24
- Material: Brass



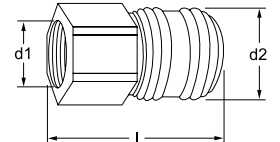
Art. Code	d2 *	mm	l mm	d1 mm	g	
7005 0111	1/4	17	33	10	20	1
7005 0112	3/8	19	33	10	25	1
7005 0113	1/2	22	33	10	30	1

## ■ Quick Coupler with female thread



- For one handed operation
- Non return valve
- Self sealing on the coupling
- Spanner Size 22, 24

- Material: Brass

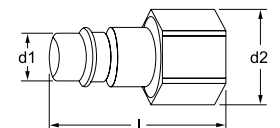


Art. Code	d2 *	mm	l mm	d1 mm	g	
7005 0201	1/4	22	41	22	80	1
7005 0202	3/8	22	41	22	85	1
7005 0203	1/2	22	41	22	90	1

## ■ Male Coupler with female thread



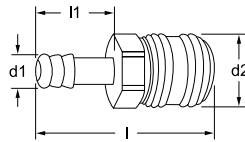
- Spanner Size 17, 19, 24
- Material: Brass



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

## ■ Quick Coupler with hose connector

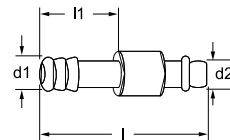
- For one handed operation
  - Roller latch
  - Non return valve
  - Spanner Size 21
- Material: Brass



Art. Code	mm	mm	l mm	l1 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

## ■ Male Coupling with hose connector

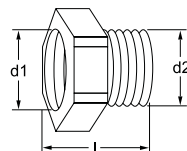
- For hoses with diameter 6-13 mm
- Material: Brass



Art. Code	mm	l mm	l1 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

## ■ Reducing Nipple

- Spanner Sizes: 19, 24 mm
- Material: Brass

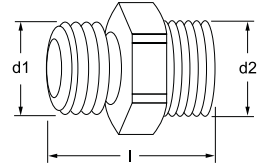


Art. Code	d1 "	d2 "	mm	l mm	g
7005 0501	1/4	3/8	19	14	10
7005 0502	1/4	1/2	19	26	30
7005 0503	3/8	1/2	24	26	50
7005 0504	1/2	3/4	24	26	50

## ■ Reducing Nipple



- Spanner Sizes: 17, 19, 24 mm
- Max.: 12 bar
- Material: Brass



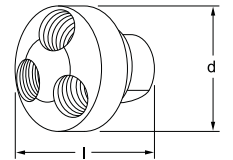
Art. Code	d1 "	d2 "	mm	l mm	g	
7005 0511	1/4	1/4	17	14	10	1
7005 0513	3/8	3/8	19	26	50	1
7005 0515	1/2	1/2	24	18	60	1



## ■ Compressed Air 3-way Separator



- Connection of 3 departure directions
- Material: Brass



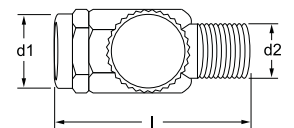
Art. Code	"	mm	d mm	l mm	g	
7005 0701	1/4	19	41	32	160	1

## ■ 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



## ■ 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

## ■ 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	1
7110 0002	XL 9	20	1
7110 0003	XXL 10	25	1

## ■ Protecting Glasses

- Clear glasses
- With UV protection
- Sportive design
- Extremely substantial frame
- Polycarbonate lens



			
Art. Code		g	
7120 0001		30	1

# MATADOR Impact Tools. For quick and safe application. For machine-operated use.

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 B107.2.

With MATADOR SmartDrive<sup>2</sup> 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.

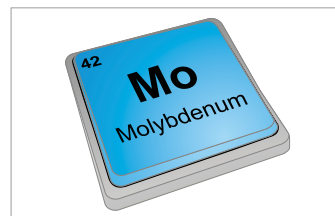


More strength through Molybdenum alloy.

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.

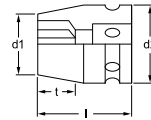
Done. For your safety.

## 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



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



## 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	

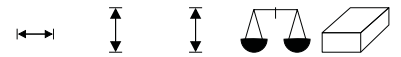
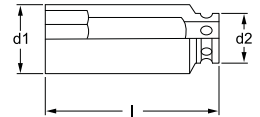
**METAL**

## Impact Sockets, long type

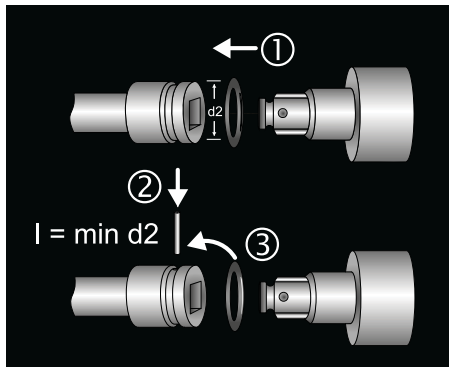


- Suitable for all standard electric and air tools
- With square drive as per DIN 3121 - G 12.5 / ISO 1174
- Suitable for hexagon head screws
- With 6-point profile
- With MATADOR SmartDrive Profile

- 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

## 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



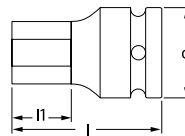
Art. Code	g	
7481 9001	2100	1
7481	0 - 13 - 15 - 17 - 18 - 19 - 21 - 22 - 24 mm	
7499	1x 10-14 - 1x 15-32 - 1x 10-14 - 1x 15-32	

**METAL**

## ■ Impact Screwdriver Bit Sockets (Hexagon)



- Suitable for all standard electric and air tools
- Material: Chrome-Molybdenum
- With square drive as per DIN 3121 - G 12.5 / ISO 1174
- Finish: black phosphated
- Suitable for in-hex screws



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

## ■ Impact Screwdriver Bit Socket Set, 6 pcs.



- Suitable for all standard electric and air tools
- Suitable for in-hex screws
- With square drive as per DIN 3121 - G 12.5 / ISO 1174
- With MTS soft foam inlay
- In robust metal case



Art. Code	g
7478 9001	700

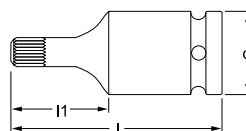
7478 6 - 8 - 10 - 12 - 14 - 17 mm



## ■ Impact Screwdriver Bit Sockets (XZN)



- Suitable for all standard electric and air tools
- Material: Chrome-Molybdenum
- With square drive as per DIN 3121 - G 12.5 / ISO 1174
- Finish: black phosphated
- Suitable for multi-point screws XZN



Art. Code	mm	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



## ■ Impact Screwdriver Bit Socket Set, 6 pcs.



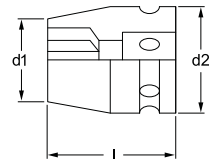
- Suitable for all standard electric and air tools
- With square drive as per DIN 3121 - G 12.5 / ISO 1174
- Suitable for multi-point screws XZN
- With MTS soft foam inlay
- In robust metal case

Art. Code	g	
7479 9001	900	1
	7479 M6 - M8 - M10 - M12 - M14 - M16	

## ■ Impact Screwdriver Bit Sockets (TORX<sup>®</sup>)



- Suitable for all standard electric and air tools
- With square drive as per DIN 3121 - G 12.5 / ISO 1174
- Suitable for protruding TORX<sup>®</sup> 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

## ■ 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<sup>®</sup> head screws
- With MTS soft foam inlay
- In robust metal case

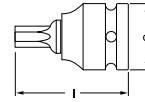
Art. Code	g	
7490 9001	900	1
	7490 E10 - E12 - E14 - E18 - E20 - E24	



## Impact Screwdriver Bit Sockets (TORX®)



- Suitable for all standard electric and air tools
- Material: Chrome-Molybdenum
- With square drive as per DIN 3121 - G 12.5 / ISO 1174
- Finish: black phosphated
- Suitable for recessed TORX® head screws



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



## Impact Screwdriver Bit Socket Set, 9 pcs.



- Suitable for all standard electric and air tools
- With MTS soft foam inlay
- With square drive as per DIN 3121 - G 12.5 / ISO 1174
- In robust metal case
- Suitable for recessed TORX® head screws



Art. Code	g	
7492 9001	1100	1

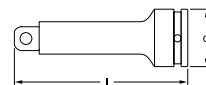
T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60 - T70



## Impact Extension



- For machine-operated sockets and adapters
- Material: Chrome-Molybdenum
- With square drive as per DIN 3121 - G 12.5 and F 12.5 / ISO 1174
- Finish: black phosphated



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



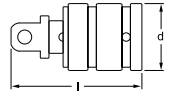
## Impact Universal Joint



- 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

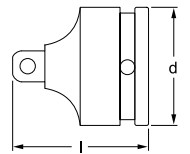
## Impact Reducer



- 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

**3/8** **10 mm** **1/2** **12,5 mm**



Art. Code	mm	"	mm	"	l mm	d mm	g	
7482 0001	12,5	1/2	10	3/8	38	25	70	1

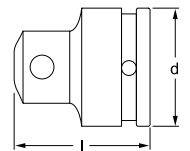
## Impact Converter



- 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

**3/4** **20 mm** **1/2** **12,5 mm**



Art. Code	mm	"	mm	"	l mm	d mm	g	
7483 0001	12,5	1/2	20	3/4	48	30	110	1

## 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

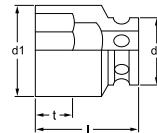
**1/2** **12,5 mm**

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

## 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



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

## 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



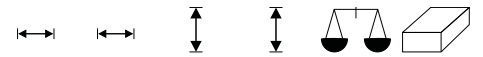
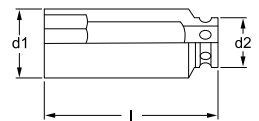
Art. Code	g
7575 9001	9000
7575 17 - 19 - 22 - 24 - 27 - 30 - 32 mm	
7581 17 - 19 - 22 - 24 - 27 - 30 - 32 - 33 mm	
7599 1x 17-46	
7599 1x 17-46	

**METAL**

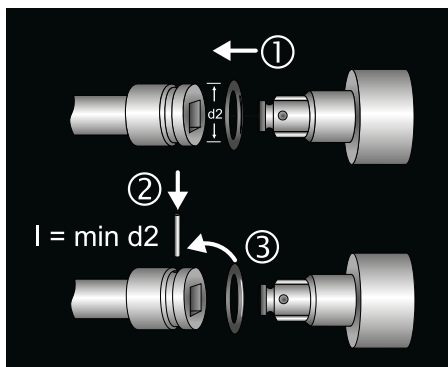
## Impact Sockets, long type



- 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
7581 0180	18	90	12	30	44	530
7581 0190	19	90	12	32	44	550
7581 0220	22	90	19	36	44	590
7581 0240	24	90	19	39	44	610
7581 0270	27	90	19	42	44	640
7581 0300	30	90	19	46	44	700
7581 0320	32	90	19	48	44	730
7581 0330	33	90	19	50	44	780
7581 0340	34	90	19	52	44	810
7581 0360	36	90	19	54	44	850
7581 0380	38	90	19	56	44	880
7581 0410	41	90	56	60	44	960
7581 0460	46	90	56	66	44	1200
7581 0500	50	95	56	72	54	1400

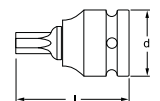


Assignment of impact tools and retaining rings and pins

## 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

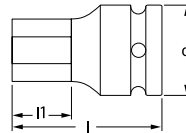


Art. Code	T	M	l mm	d mm	g
7592 0550	T55	M12	100	44	260
7592 0600	T60	M14	100	44	330
7592 0700	T70	M16	100	44	350
7592 0800	T80	M18	100	44	425
7592 0900	T90	M20	100	44	460
7592 1000	T100	M22	100	44	485

## ■ Impact Screwdriver Bit Sockets (Hexagon)



- 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



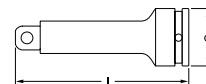
Art. Code	mm	l mm	d mm	g
7578 0100	10	100	44	430
7578 0120	12	100	44	465
7578 0140	14	100	44	480
7578 0170	17	100	44	545
7578 0190	19	100	44	585
7578 0220	22	100	44	640
7578 0240	24	100	44	685
7578 0270	27	100	44	760



## ■ 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



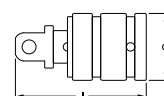
Art. Code	mm	"	mm	"	l mm	l"	d mm	g
7565 0001	20	3/4	20	3/4	150	6	44	700
7565 0002	20	3/4	20	3/4	250	10	44	1060
7565 0003	20	3/4	20	3/4	400	16	44	1600



## ■ 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



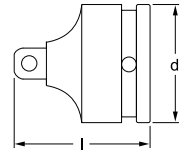
Art. Code	mm	"	mm	"	l mm	d mm	g
7558 0001	20	3/4	20	3/4	90	44	600



## ■ Impact Reducer

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

- For machine-operated sockets and adapters
- Material: Chrome-Molybdenum
- With square drive as per DIN 3121 - G 20 and F 12.5 / ISO 1174
- Finish: black phosphated

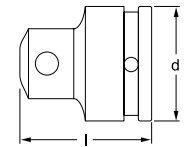


Art. Code	mm	"	mm	"	l mm	d mm	g	
7582 0001	20	3/4	12,5	1/2	58	44	220	1

## ■ Impact Converter

**1** **25** **3/4** **20**  
mm mm mm mm

- For machine-operated sockets and adapters
- Material: Chrome-Molybdenum
- With square drive as per DIN 3121 - G 20 and F 25 / ISO 1174
- Finish: black phosphated



Art. Code	mm	"	mm	"	l mm	d mm	g	
7583 0001	20	3/4	25	1	63	44	450	1

## ■ Safety Rings and Safety Pins

**3/4** **20**  
mm mm

- Accident-proof safety system for machine-operated sockets and adapters
- Resistant to heat, coldness and chemical influences
- For sockets and accessories with square drive as per DIN 3121 - G 20 / ISO 1174



Art. Code		mm	"	mm	d mm	d mm	l mm	g	
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



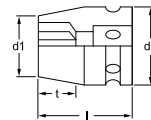


## ■ Impact Sockets



- 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



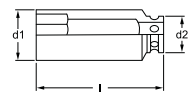
Art. Code	mm	l mm	t mm	d1 mm	d2 mm	g
7675 0190	19	58	12	36	54	510
7675 0220	22	58	12	39	54	530
7675 0240	24	58	14	42	54	560
7675 0270	27	58	14	46	54	580
7675 0300	30	62	16	49	54	610
7675 0320	32	62	19	52	54	660
7675 0330	33	62	19	54	54	710
7675 0340	34	62	19	54	54	710
7675 0360	36	65	19	56	54	720
7675 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



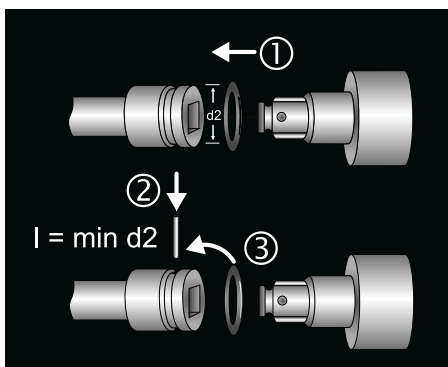
## ■ Impact Sockets, long type



- 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



Assignment of impact tools and retaining rings and pins

## ■ 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



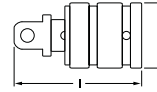
Art. Code	mm	"	mm	"	l mm	l "	d mm	g
7665 0001	25	1	25	1	150	6	54	1170
7665 0002	25	1	25	1	330	13	54	2350

## ■ Impact Universal Joint

1 25 mm 1 25 mm

- 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



## ■ Impact Reducer

3/4 20 mm 1 25 mm

- 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	
7682 0001	25	1	20	3/4	77	54	650	1

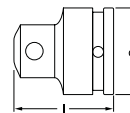


## ■ Impact Converter

1 1/2 40 mm 1 25 mm

- 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	1



## ■ 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	10
7699 0102	▭	25	1	75 - 90		5,0	75	10



# Pliers.

Be a MATADOR.



## Content Pliers.

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140 Long Flat Nose Plier

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141 Side Cutters

141 Heavy Duty Side Cutter



### Boldcutters.

142 Lever Bolt Cutter



### Pliers for Electrician's.

142 Electrician's Side Cutter „4 in 1“

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143 Wire Stripping Plier

143 Crimping Pliers for Cable Links



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144 Water Pump Pliers PRO

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145 Pliers Assortment, 4-pieces



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146 Circlip Pliers (B)

147 Circlip Pliers (C)

147 Circlip Pliers (D)

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148 Universal Grip Pliers

149 Universal Grip Pliers

149 Langbeck Grip Plier



# 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 extend.

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

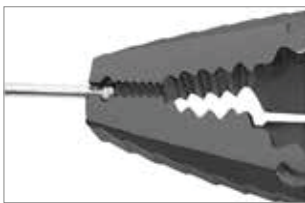
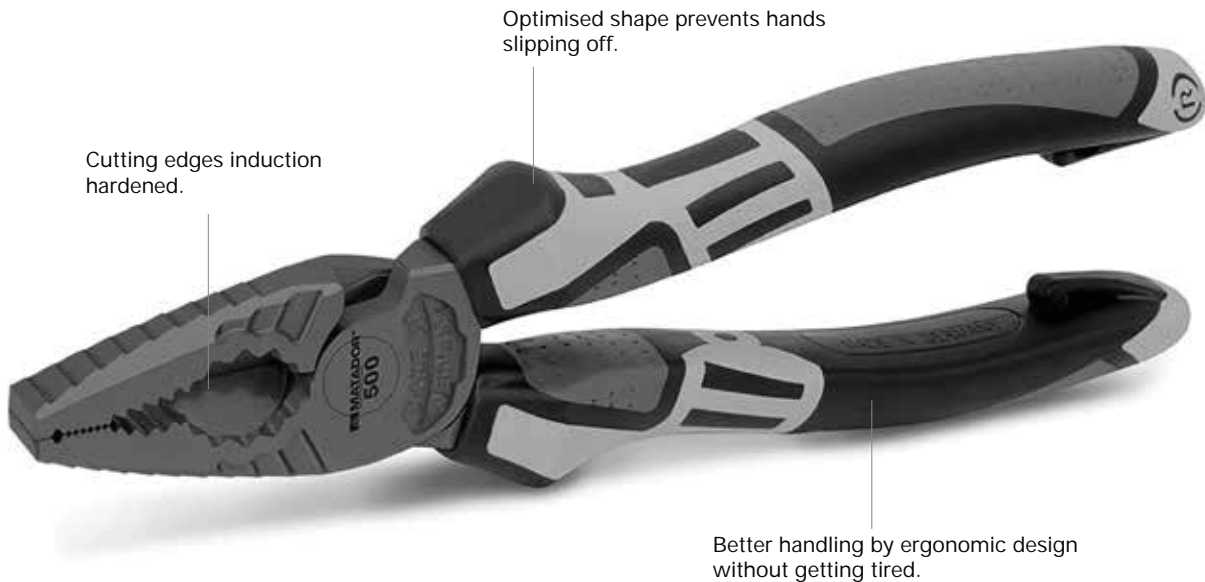
Keep it short and simple:  
The pliers pictograms.

	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



# Heavy Duty Combination Pliers.

For powerfull grip.



Practical nailholder



Grip zone for flat and round material



Grip zone for round material

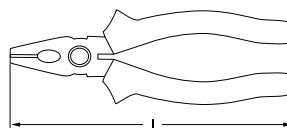


Induction hardened cutting edges for soft, hard and piano-wires

## ■ 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	l mm	l"									
					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

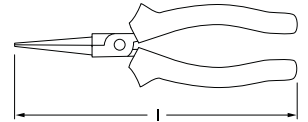
## ■ Long Round Nose Pliers

 2K



- 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

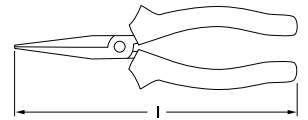
## ■ Long Flat Nose Pliers

 2K



- 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

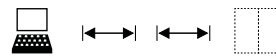
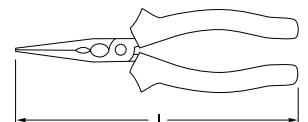
## ■ Chain Nose Pliers, straight

 2K



- 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

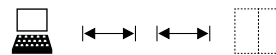
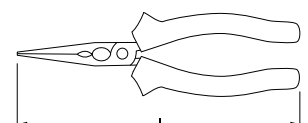
## ■ Chain Nose Pliers, angled 45°


 2K



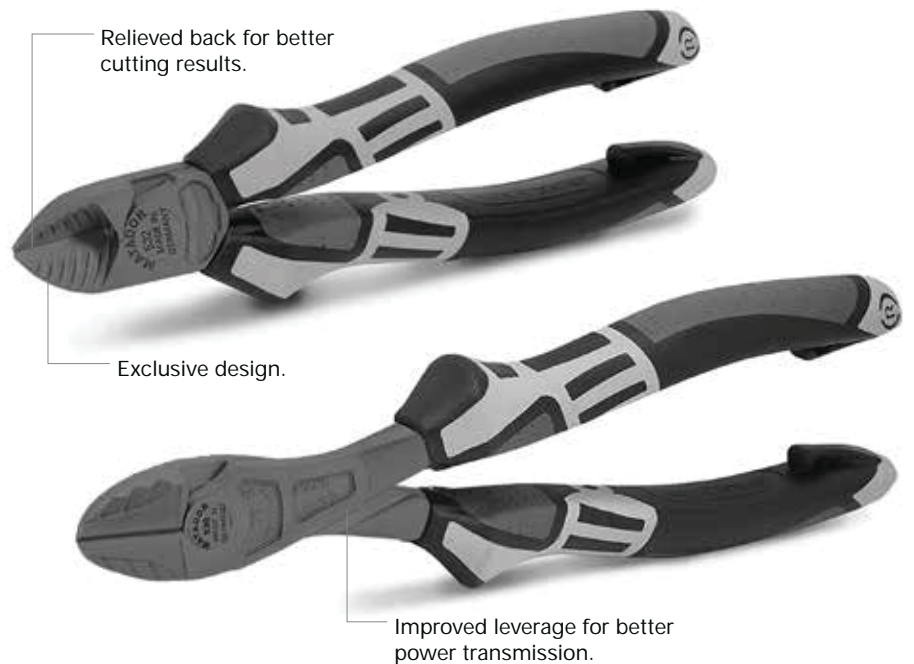
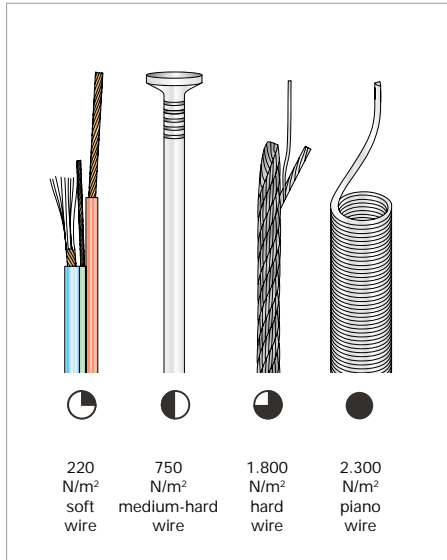
- According to DIN / ISO 5745
- Long, 45° angled, flat-round jaws
- With cutting edges and burner hole
- Serrated gripping faces
- For cutting hard and soft wires
- For holding and bending

- 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

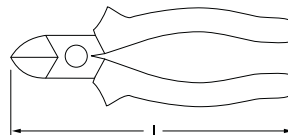
# Cutting pliers.



## 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

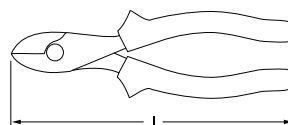


Art. Code	l mm	l"		mm	mm	mm	mm	g	
0532 0145	145	5.3/4		5	2,5	1,7	8	180	6
0532 0160	160	6.1/4		6	3,5	2,0	11	210	6
0532 0180	180	7		7	4,0	2,5	13	265	6

## 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



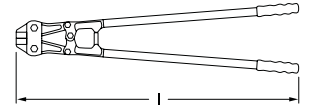
Art. Code	l mm	l"		mm	mm	mm	g
0530 0180	180	7		3,7	2,6	2,2	280
0530 0200	200	8		4,0	2,8	2,5	305

## ■ 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	mm	mm	g	
0527 0018	460	18	8	7	5	7	7	1670	1
0527 0030	780	30	11	9	8	11	9	4570	1

Art. Code	Spare heads for	g	
0527 0011	0527 0018	420	1
0527 0013	0527 0030	1450	1

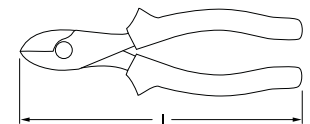


## Special pliers for Electrician's and electronics.

### ■ Electrician's Side Cutter „4 in 1“

2K

- Integrates all 4 functions: cutting - stripping - crimping - bending into one tool
- With ergonomically shaped 2-component sleeves
- With stripping function for single and multi-stranded conductors with 1.5 mm<sup>2</sup> and 2.5 mm<sup>2</sup> conductor cross-section
- Precision cutting edge for the finest wires
- Power transmission with optimum leverage for easy and effortless work
- Material: Special tool steel
- Surface: Matt chrome finish



Art. Code	l mm	l "	mm	mm	mm <sup>2</sup>	mm	mm	g	
0553 0180	190	7.1/2	2,0	1,0	4,0	2,5	1,5	285	6



Cutting



Stripping



Crimping

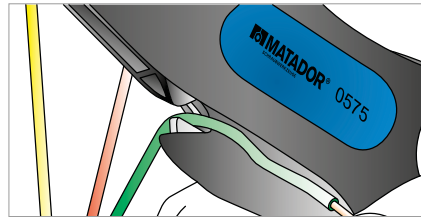


Bending

## Fully automatic wire stripping pliers



- Wire Stripping Plier with fully automatic adjustment
- Fully insulated
- Integrated side cutting nipper
- In black plastic housing

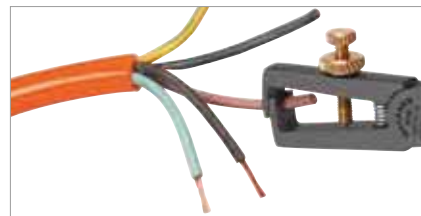


Art. Code	l mm	l"	mm	mm <sup>2</sup>	g	
0575 0165	165	6.1/4	⊙	0,2 - 6,0	105	1

## Wire Stripping Pliers

2K

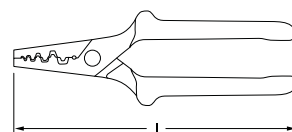
- For stripping solid, stranded or finely stranded conductors with standard insulation
- With ergonomically shaped 2-component sleeves
- Material: Tool steel
- With V-shaped cutting edge for wires and strands up to a max. of Ø 5 mm or 10 mm<sup>2</sup> conductor cross section
- With adjustable screw for easy adjustment to the required wire or strand diameter
- With opening spring



Art. Code	l mm	l"	mm	mm	mm <sup>2</sup>	g	
0576 0160	160	6.1/4	⊠	5	10	185	6

## 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 <sup>2</sup>	g	
0572 0010	190	7.1/2	⊙	0,5 - 16,0	250	1

# Water Pump Pliers.

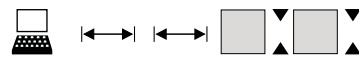
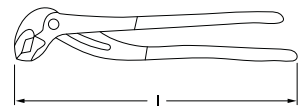


## Water Pump Pliers



- 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



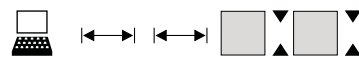
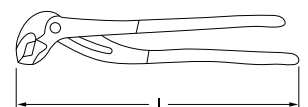
Art. Code	l mm	l"	mm	mm	g
0556 0180	180	7	40	1.1/4	155
0556 0240	240	9.1/2	50	2.1/4	350

## 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	mm	g
0557 0400	400	15.3/4	100	3.1/2	1255



# Pliers Assortment.

Practical and proven sets.

## ■ Pliers Assortments 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
<b>0556 9030</b> 	970 1
Content  <b>0500</b> 180 mm	
 <b>0530</b> 180 mm	
 <b>0556</b> 240 mm	



2K 

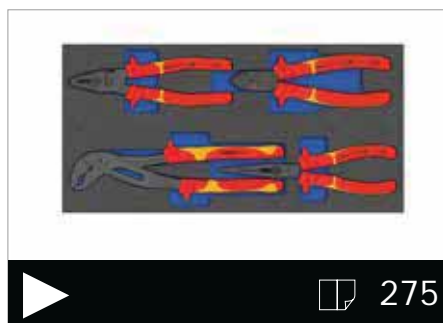
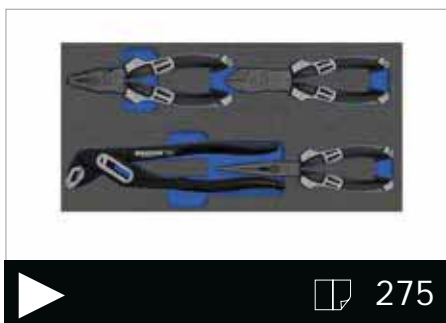
## ■ Pliers Assortments XL

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
<b>0556 9040</b> 	1270 1
Content  <b>0500</b> 180 mm	
 <b>0530</b> 180 mm	
 <b>0585</b> 205 mm	
 <b>0556</b> 240 mm	
<b>0556 9041</b> 	1270 1
Content  <b>0500</b> 180 mm	
 <b>0530</b> 180 mm	
 <b>0586</b> 205 mm	
 <b>0556</b> 240 mm	



2K 



# Circlip Pliers.

For assembly from circlips.

Drop-forged precision tips, almost unbreakable, anti-slip.



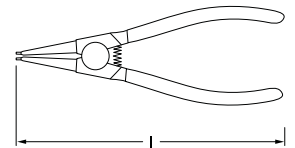
Ø 3 - 140 mm

## ■ 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



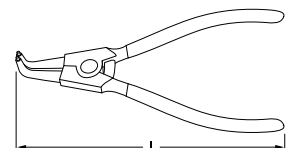
Art. Code	Size	Size		mm		Ø mm	g	
		l mm	l"	mm	mm			
0578 0000	A0	135	5.1/4	3	10	0.9	100	6
0578 0010	A1	135	5.1/4	10	25	1.3	100	6
0578 0020	A2	180	7	19	60	1.8	150	6
0578 0030	A3	220	8.3/4	40	100	2.3	250	6
0578 0040	A4	310	12.1/4	85	140	3.2	500	6

## ■ 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

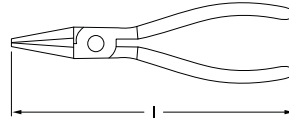


Art. Code	Size	Size		mm		Ø mm	g	
		l mm	l"	mm	mm			
0580 0000	A01	125	5	3	10	0.9	100	6
0580 0110	A11	125	5	10	25	1.3	100	6
0580 0210	A21	165	6.1/2	19	60	1.8	150	6
0580 0310	A31	200	7.3/4	40	100	2.3	250	6
0580 0410	A41	290	11.1/2	85	140	3.2	500	6

## ■ 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



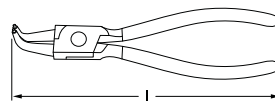
Art. Code	Size	Size		Circlip			Weight	
		l mm	l"	mm	mm	Ø mm	g	
0582 0010	J1	135	5.1/4	12	25	1,3	100	6
0582 0020	J2	180	7	19	60	1,8	150	6
0582 0030	J3	220	8.3/4	40	100	2,3	250	6
0582 0040	J4	310	12.1/4	85	140	3,2	440	6



## ■ 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

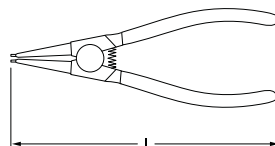


Art. Code	Size	Size		Circlip			Weight	
		l mm	l"	mm	mm	Ø mm	g	
0584 0110	J11	125	5	12	25	1,3	100	6
0584 0210	J21	165	6.1/2	19	60	1,8	150	6
0584 0310	J31	200	7.3/4	40	100	2,3	250	6
0584 0410	J41	290	11.1/2	85	140	3,2	440	6



## ■ Circlip Pliers Assortment

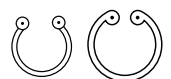
Set in practical, transparent polypropylene box: robust packaging, stackable and easy to stock, reclosable, reusable and with hanging hole for tools panels



Art. Code	g	
0578 9040	600	1

Content

- 0578 180 mm A2
- 0580 165 mm A21
- 0582 180 mm J2
- 0584 165 mm J21



# Grip Pliers.

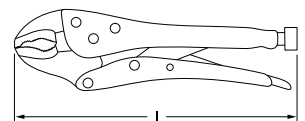
For secure gripping, clamping and holding.



## ■ 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

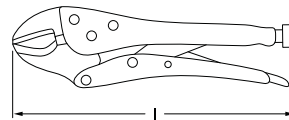
- Material: CV spring steel
- Surface: Nickel plated



Art. Code	Length		Jaw Width				Weight (g)
	mm	"	mm	mm	mm	mm	
0588 0175	175	7	30	20	30	35	5
0588 0250	250	10	40	20	30	50	5
0588 0300	300	12	65	30	34	65	5

## ■ Universal Grip Pliers

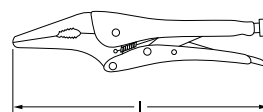
- With longwise groove in the top jaw
  - Suitable for round and flat materials
  - With wire cutter
  - High clamping pressure due to toggle lever transmission
  - Usable with one hand
  - With quick-release lever and adjusting screw
- Material: CV spring steel
  - Surface: Nickel plated



Art. Code	l mm	l"	mm	mm	mm	mm	g	
0588 1180	180	7.1/4	35	25	32	25	400	1
0588 1250	250	10	35	30	32	45	600	1

## ■ 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	l mm	l"	mm	mm	mm	mm	g	
0589 0165	165	6.1/2	20	10	24	0 - 55	300	1

# L-Keys / Screwdrivers.

Be a MATADOR.





## Content Screwdriver.

Page Article group



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155	L-Key Wrenches set (Hexagon), in metal holder
156	L-Key Wrenches set (Hexagon), in holder
157	L-Key Wrenches (Hexagon), long type
157	L-Key Wrenches (Hexagon), long type, Minis
158	L-Key Wrenches (Hexagon), long type, in holder
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160	L-Key Wrenches set (hexagon), long, ball point head, in holder
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161	L-Key Wrenches (TORX®), in holder
161	L-Key Wrenches (TORX®), ball point head, in holder
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166	2C-Screwdriver (PH)
166	2C-Screwdriver (PZ)
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167	Screwdriver, short (PH)



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### Screwdriver sets.

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171	Wooden handle Screwdriver set



### 2C-Precision screwdriver.

172	2C-Precision screwdriver (Slot)
172	2C-Precision screwdriver (PH)
173	2C-Precision screwdriver (TORX®)
173	2C-Precision screwdriver set
173	2C-Precision screwdriver set (TORX®)



### Impact Screwdriver and Bits.

174	Mini Screwdriver 4in1
174	Reversible Screwdriver
175	Hand Impact Screwdriver Set
176	Hex Power Shank
176	Hex Power Shank
176	Hex Power Shank
176	Bitholder



### Bitbox Torsion.

177	Bit Assortment Torsion
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# Classic L-Key Wrenches for quick mounting.

Short or long pattern. With or without ballpoint. Single keys or key sets.



The screwdrivers for socket head screws.

Socket head screws with hexagon socket or TORX<sup>®</sup> 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 service-ability 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.

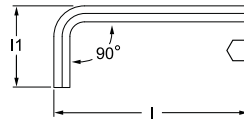


Chamfered edges for easy inserting into the screw head

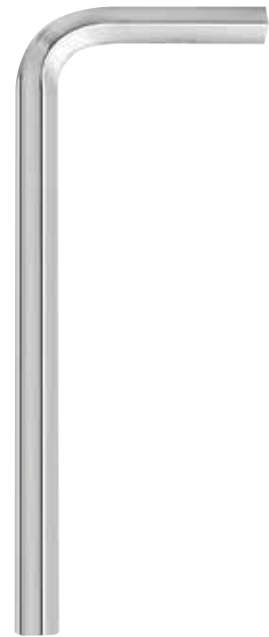
## ■ L-Key Wrenches (Hexagon)

- 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	47	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



### Overview MATADOR- L-Key-Wrenches:

0440			
0441			
0442			
0443			
0444			
0445			
0446			

## ■ 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

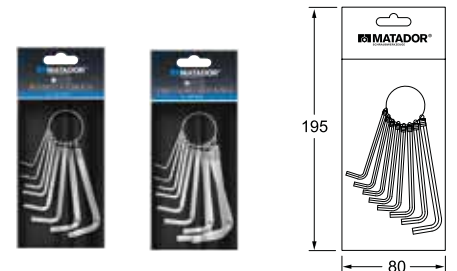
Art. Code		g	
0440 9040	4	0440 1.5 - 2.0 - 2.5 - 3.0 mm	25 1
0440 9030	3	0440 4.0 - 5.0 - 6.0 mm	75 1
0440 9020	2	0440 8.0 - 10.0 mm	175 1

## ■ 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



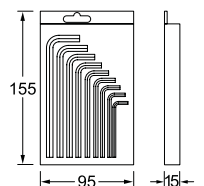
Art. Code		g	
0440 9080	8	0440 1.5 - 2.0 - 2.5 - 3.0 - 4.0 - 5.0 - 5.5 - 6.0 mm	115 1
0440 9100	10	0440 2.0 - 2.5 - 3.0 - 4.0 - 4.5 - 5.0 - 5.5 - 6.0 - 8.0 - 10.0 mm	270 1

## ■ 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

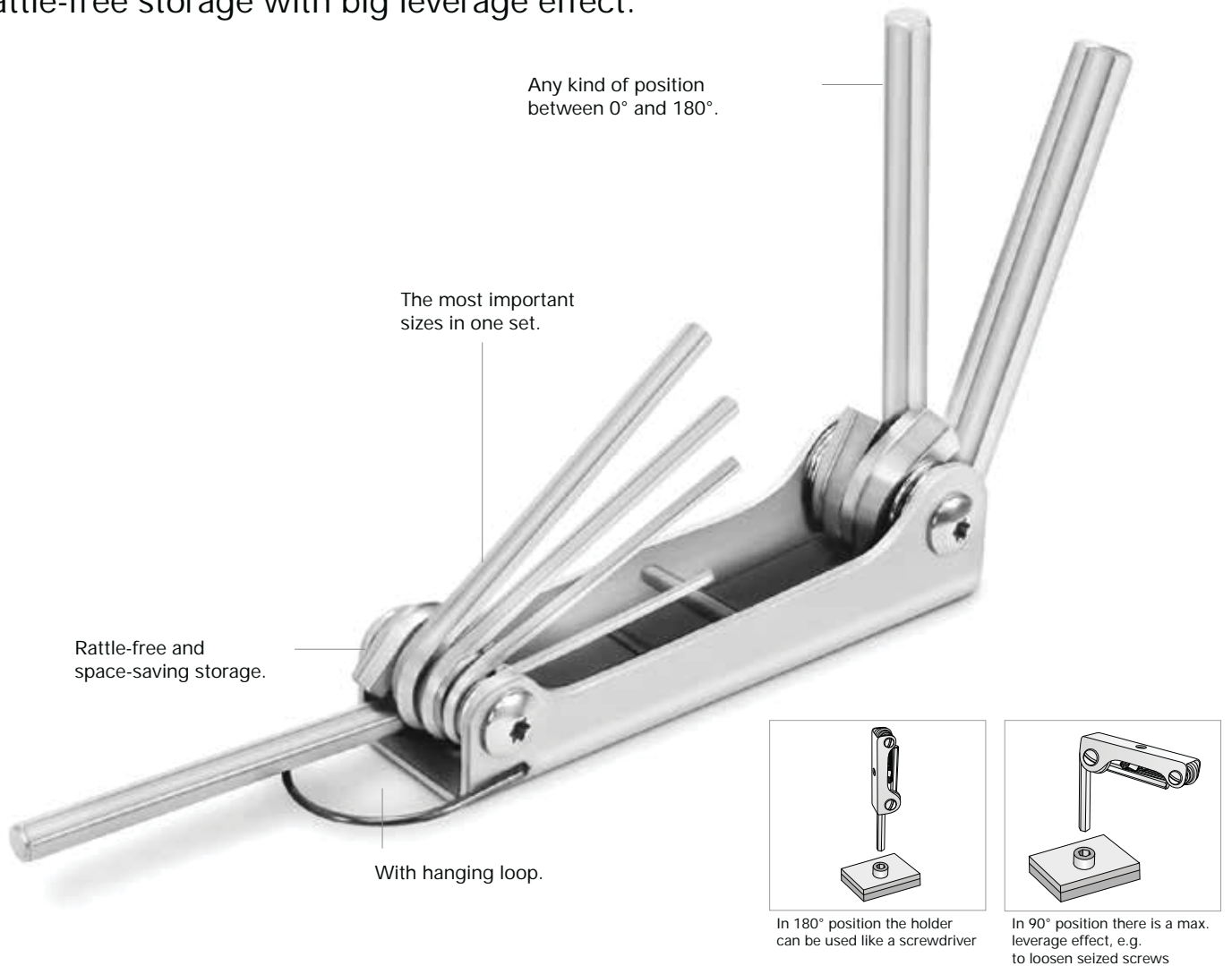
- Standards: Similar to ISO 2936 (DIN 911)
- Material: Chrome Vanadium
- Surface: Matt chrome finish



Art. Code		g	
0440 9090	9	0440 1.5 - 2.0 - 2.5 - 3.0 - 4.0 - 5.0 - 6.0 - 8.0 - 10.0 mm	275 1

# L-Key Wrenches in metal holder.

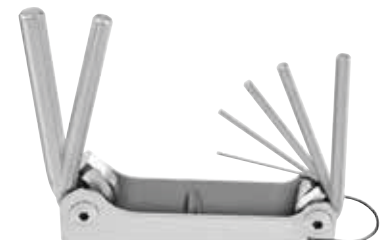
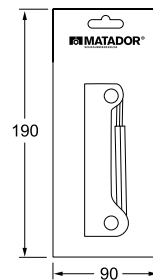
Rattle-free storage with big leverage effect.



## ■ L-Key Wrenches set (Hexagon), in metal holder



- |   |              |                               |
|---|--------------|-------------------------------|
| - L-Key Wrenches for inside hexagon socket screws, short type | - Standards: | Similar to ISO 2936 (DIN 911) |
| - Set in practical metal holder                               | - Material:  | Chrome Vanadium               |
| - Packaging with butterfly hole and EAN label                 | - Surface:   | Matt chrome finish            |
| - Fully hardened  |              |                               |



Art. Code	g	
0440 9070	410	1
0440 2.0 - 3.0 - 4.0 - 5.0 - 6.0 - 8.0 - 10.0 mm		

# The new softGRIP holder.

Proper storage and quick removal.

softGRIP

Especially soft and flexible TPE material for quick and easy removal of the L-Key Wrenches.

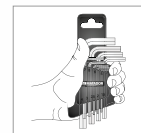


Clear, durable marking of the single L-Key Wrenches.

Integrated hanger for workshop panels etc.



Ergonomic, spherical design with rounded edges for comfortable hold or direct working without removal of the single keys.

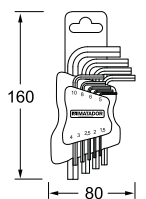


## ■ L-Key Wrenches set (Hexagon), in holder



- 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

softGRIP

0440 9091 0440 1.5 - 2.0 - 2.5 - 3.0 - 4.0 - 5.0 - 6.0 - 8.0 - 10.0 mm



g

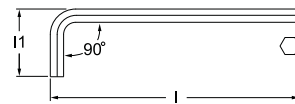
295

1

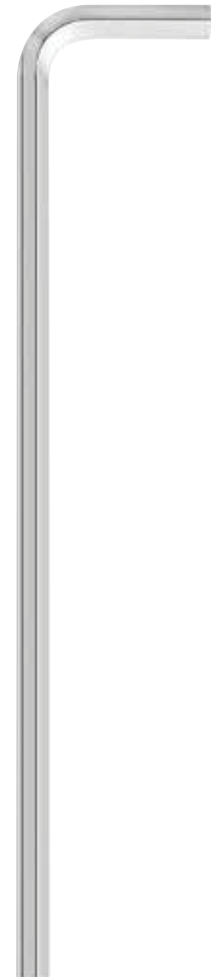


## ■ L-Key Wrenches (Hexagon), long type

- 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	
0441 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



## ■ 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



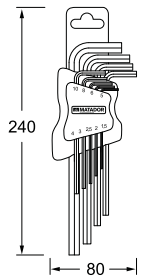
Art. Code		g	
0441 9031	3 0441 2.0 - 2.5 - 3.0 mm	30	1
0441 9030	3 0441 4.0 - 5.0 - 6.0 mm	115	1
0441 9020	2 0441 8.0 - 10.0 mm	295	1

## ■ L-Key Wrenches (Hexagon), long type, in holder

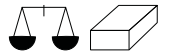


- L-Key Wrenches for inside hexagon socket screws, long type
- Set in black softGRIP-holder
- With plastic hanger and EAN label
- Fully hardened

- Standards: Similar ISO 2936 (DIN 911)
- Material: Chrome Vanadium
- Surface: Matt chrome finish





Art. Code



g

softGRIP

0441 9091   0441 1.5 - 2.0 - 2.5 - 3.0 - 4.0 - 5.0 - 6.0 - 8.0 - 10.0 mm

295

1



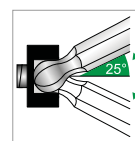
## ■ L-Key Wrenches (Hexagon), long, ball point head



- 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	l mm	l1 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	l mm	l1 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

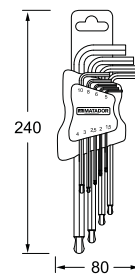




■ L-Key Wrenches set (hexagon), long, ball point head, in holder

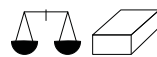


- L-Key Wrenches for inside hexagon socket screws, long type
  - With ball point head on the long end, use in awkward areas, swivel angle up to 25°
  - Set in black softGRIP-holder
  - With plastic hanger and EAN label
  - Fully hardened
- Standards: Similar ISO 2936 (DIN 911)
  - Material: Chrome Vanadium
  - Surface: Matt chrome finish

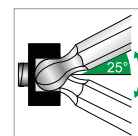


Art. Code

0442 9091 0442 1,5 - 2,0 - 2,5 - 3,0 - 4,0 - 5,0 - 6,0 - 8,0 - 10,0 mm



g 400 1



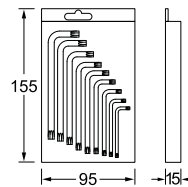
softGRIP

## ■ 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



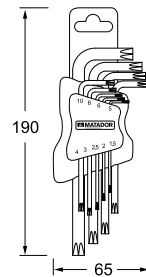
Art. Code		g	
0443 9090	0443 T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50	275	1

## ■ 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



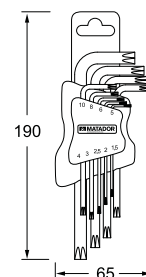
Art. Code		g	
0443 9091	0443 T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50	300	1

## ■ L-Key Wrenches (TORX®), ball point head, in holder

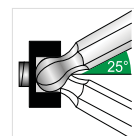


- Key Wrenches, for inside TORX® screws, short type
- With ball point head on the long end, use in awkward areas, swivel angle up to 25°
- Set in black softGRIP-holder
- With plastic hanger and EAN label
- Fully hardened

- Material: Chrome Vanadium
- Surface: Matt chrome finish



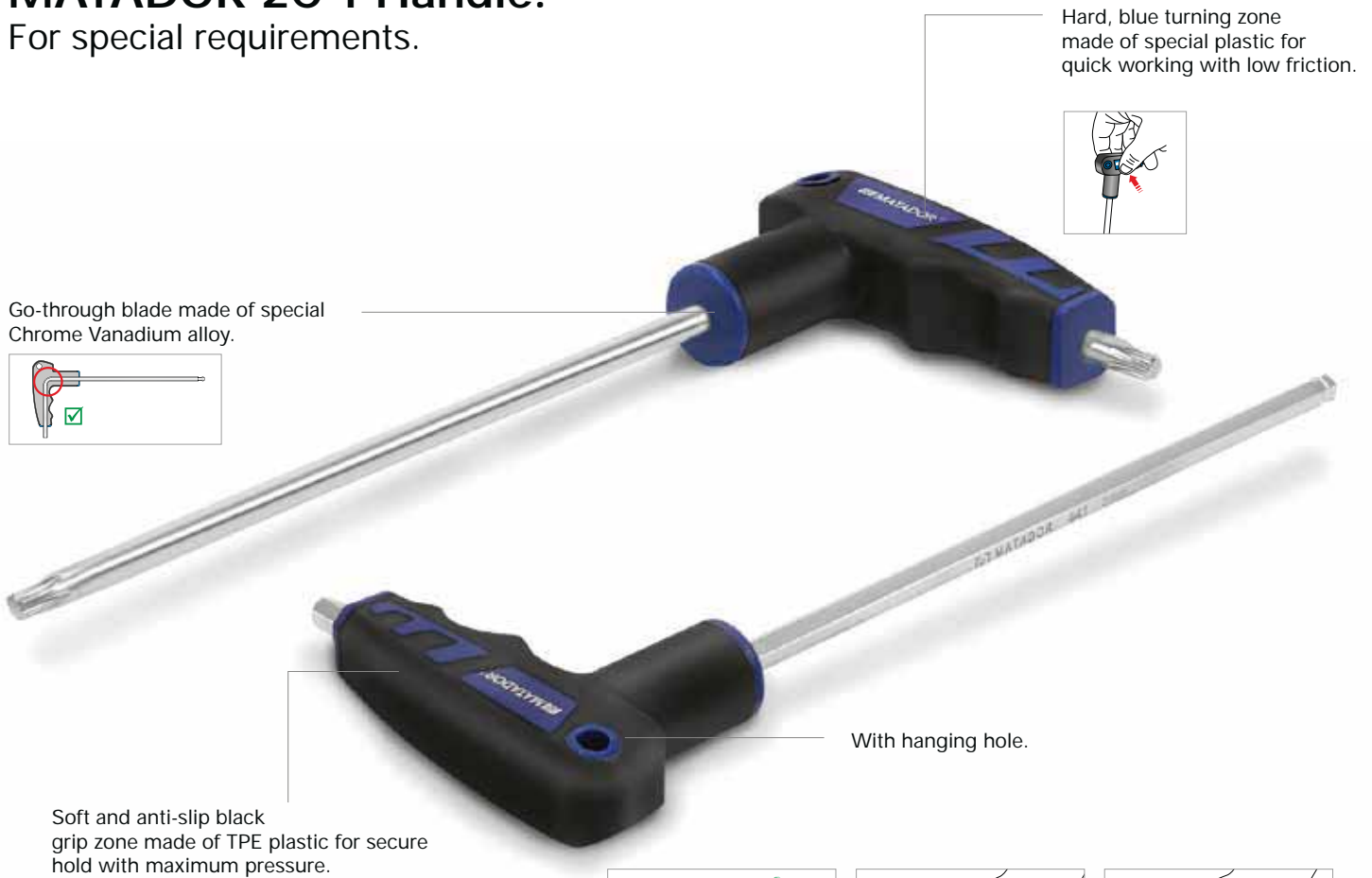
Art. Code		g	
0444 9090	0444 T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50	300	1



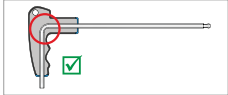


# Powerful tightening with the MATADOR 2C T-Handle.

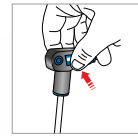
For special requirements.



Go-through blade made of special Chrome Vanadium alloy.

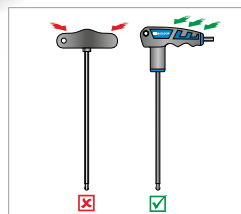


Hard, blue turning zone made of special plastic for quick working with low friction.



With hanging hole.

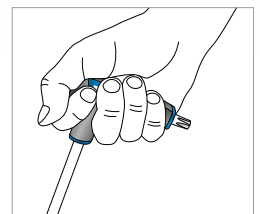
Soft and anti-slip black grip zone made of TPE plastic for secure hold with maximum pressure.



Asymmetric wings for high torque transmission



Especially ergonomic design



Comfortable hold thanks to exactly formed grips

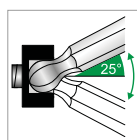
## 2C-T-grip-L-Key Wrenches (Hexagon)

2K



- 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



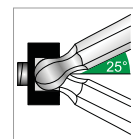
## 2C-T-grip-L-Key Wrenches set (Hexagon)

2K  

- 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   	0445 2 - 3 - 4 - 5 - 6 - 8 - 10 mm	800 1

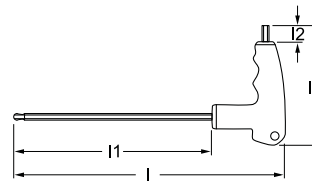






## 2C-T-grip-L-Key Wrenches (TORX®)

2K 

- 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

## 2C-T-grip-L-Key Wrenches set (TORX®)

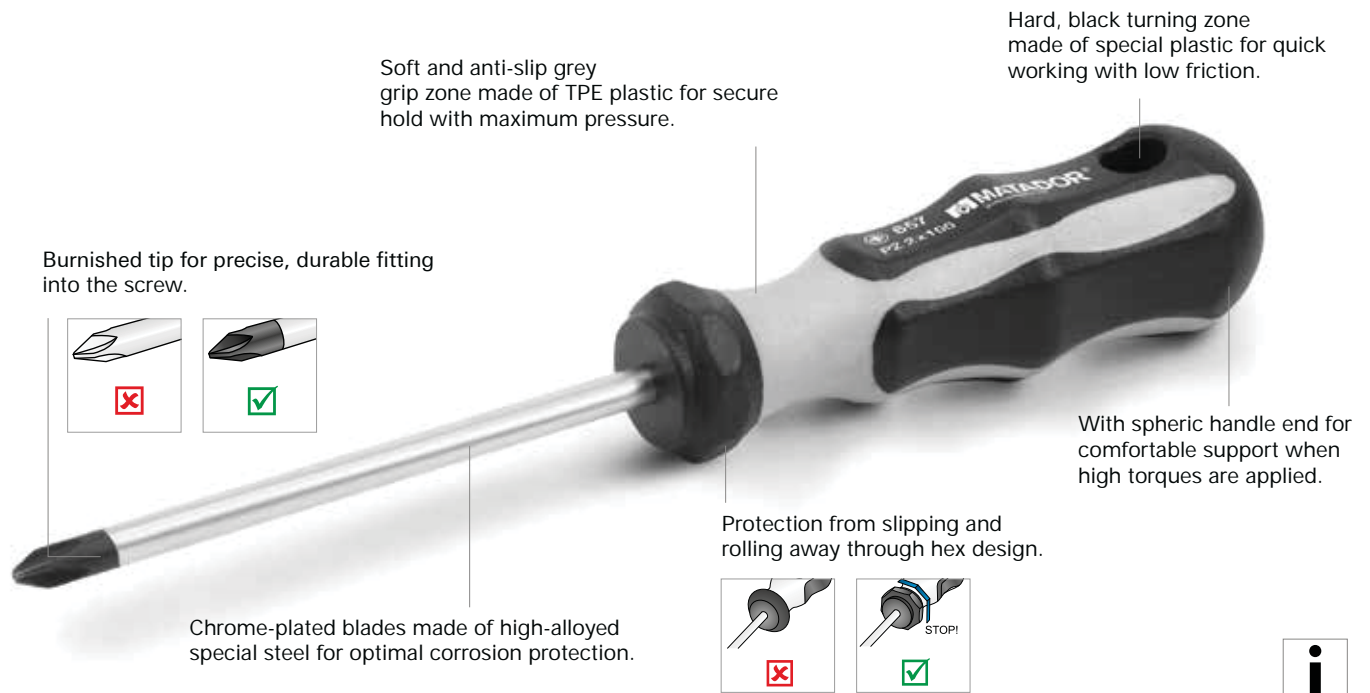
2K  

- 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)

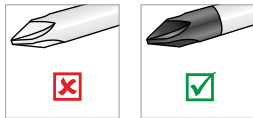


		
Art. Code	g	
0446 9090   	0446 T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50	830 1

# MATADOR 2-Component Screwdrivers. Spare the hand for powerful screwing. Especially ergonomic design for effortless working.

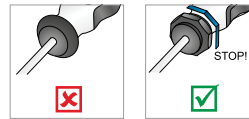


Burnished tip for precise, durable fitting into the screw.



Chrome-plated blades made of high-alloyed special steel for optimal corrosion protection.

Protection from slipping and rolling away through hex design.



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.

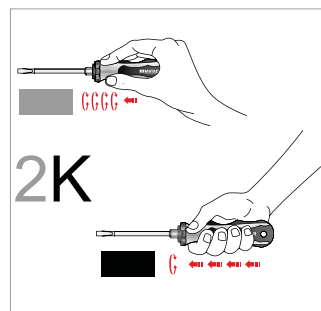
MATADOR 2-component handles thus consist of hard and soft plastic materials making it possible to work without fatigue to a large extend.

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.

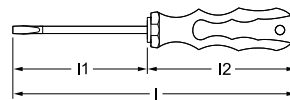
Ergonomics you can touch!

## ■ 2C-Screwdriver (Slot)

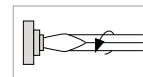
2K 

- 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	166	5

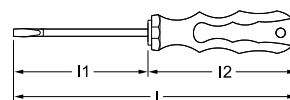


## ■ Precision Screwdrivers (slotted)

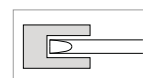
2K 

- 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



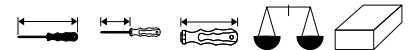
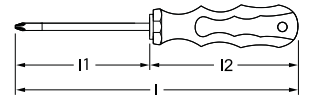
## 2C-Screwdriver (PH)

2K 



- 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	60	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

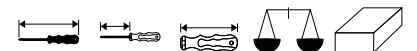
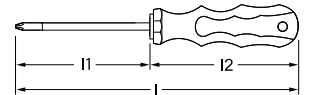
## 2C-Screwdriver (PZ)

2K 



- 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



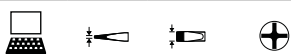
Art. Code		l mm	l1 mm	l2 mm	g	
0657 0000	PZ 0	175	80	95	34	10
0657 0010	PZ 1	175	80	95	34	10
0657 0020	PZ 2	205	100	105	77	10
0657 0030	PZ 3	270	150	120	145	10

## Offset Screwdrivers

- For working in places with difficult access

- Material: Chrome Vanadium
- Surface: nickel plated



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

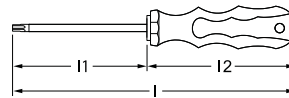


## 2C-Screwdriver (TORX®)

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



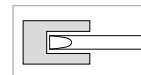
Art. Code	l mm	l1 mm	l2 mm	g	
0620 0060 T6	170	75	95	35	5
0620 0070 T7	170	75	95	35	5
0620 0080 T8	170	75	95	35	5
0620 0090 T9	170	75	95	35	5
0620 0100 T10	175	80	95	37	5
0620 0150 T15	175	80	95	40	5
0620 0200 T20	195	100	95	44	5
0620 0250 T25	195	100	95	48	5
0620 0270 T27	220	115	105	71	5
0620 0300 T30	220	115	105	85	5
0620 0400 T40	250	130	120	125	5

## 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	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



## 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	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



# MATADOR Screwdriver with striking cap.

Punch the head.

Ergonomic handle for effortless working.



Hexagon blade for spanner support.

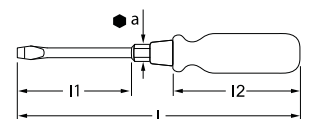
Burnished tip for precise, durable fitting into the screw.



## ■ 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
0600 1610	1,6	10,0	13	300	175	125	206
0600 2514	2,5	14,0	16	380	250	130	296

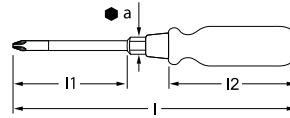


## ■ Screwdrivers with wooden handle (Cross head PH)



- 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		a 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



# Screwdriver Sets.

Practical and proven assortments.



## 2C-Screwdriver set L

2K



- 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		

## 2C-Screwdriver set XL

2K



- 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		

## 2C-Screwdriver set (TORX®)

2K  

- 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		

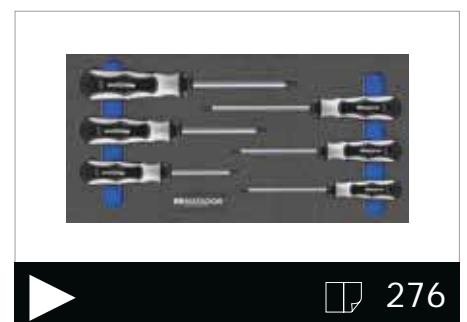
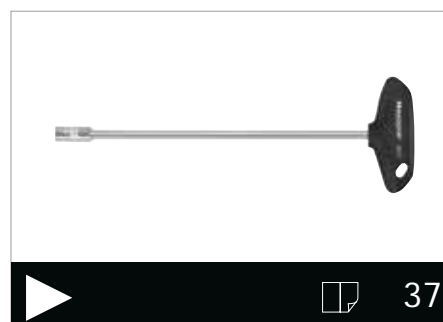
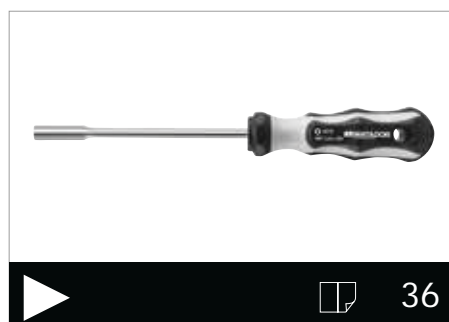
## Wooden handle Screwdriver set

- 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		



# Precision Screwdrivers with 2-component handle.

Indispensable for all precision-mechanical work.

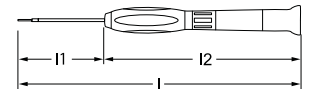


## ■ 2C-Precision screwdriver (Slot)

2K



- For all precision-mechanical work
- With turnable cap and 2-component handle with hard turning zone and soft grip zone
- With burnished tip



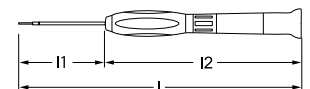
Art. Code	mm		l mm		l1 mm		l2 mm		g	
	mm	mm	l mm	l1 mm	l2 mm	g	g	g	g	
0661 0251	0.25	1.0	150	50	100	10	10			
0661 0420	0.40	2.0	150	50	100	10	10			
0661 0530	0.50	3.0	150	50	100	10	10			

## ■ 2C-Precision screwdriver (PH)

2K



- For all precision-mechanical work
- With turnable cap and 2-component handle with hard turning zone and soft grip zone
- With burnished tip

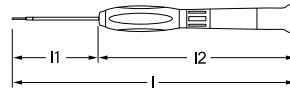


Art. Code	mm		l mm		l1 mm		l2 mm		g	
	mm	mm	l mm	l1 mm	l2 mm	g	g	g	g	
0662 0000	PH 00		150	50	100	10	10			
0662 0001	PH 0		150	50	100	10	10			
0662 0010	PH 1		150	50	100	10	10			

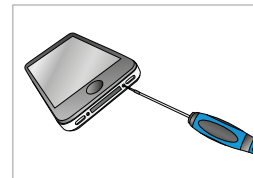
## 2C-Precision screwdriver (TORX®)

2K 

- 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



## 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		



## 2C-Precision screwdriver set (TORX®)

2K  

- 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		



# Reversible Screwdrivers by MATADOR.

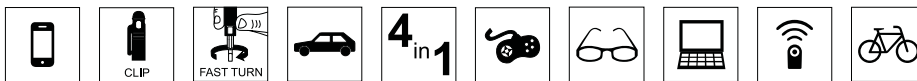
Handy helpers to go.

**4** penny

Reversible bits made of tool steel.

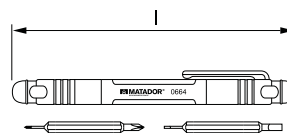


Practical shirt clip.



## ■ Mini-Screwdriver 4in1

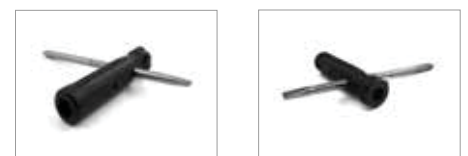
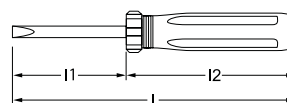
- Exceptionally practical pen screwdriver
- With 2 removable caps, each with a removable bit
- 4 screwdrivers in one tool
- Provides window for quick identification of the inserted bit
- A perfect combination of precise technology and standard screwdriver
- Suitable for glasses, mobile phones, remote controls, computers, toys, bicycles, cars and all kinds of repair in general
- Blade made of tool steel



Art. Code	mm	l mm	g	
0664 0001	1,5 - 3,0	PH 00 - PH 0	130	10

## ■ Reversible Screwdriver ECO

- Practical reversible screwdriver in standard quality (on-board tool)
- Handle made of black plastic
- Blade made of tool steel



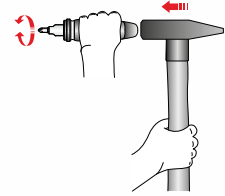
Art. Code	mm	l mm	l1 mm	l2 mm	g	
0694 0001	1,2 x 6,0	PH 2	165	65	100	45



# Impact Screwdriver and Bits.

For turning every screw.

Very handy, only 185 mm total length including bit.



With 12.5 mm (1/2") square drive for sockets or bits (with adaptor).

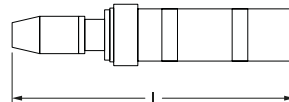


Including bit adaptor.



## Hand Impact Screwdriver Set

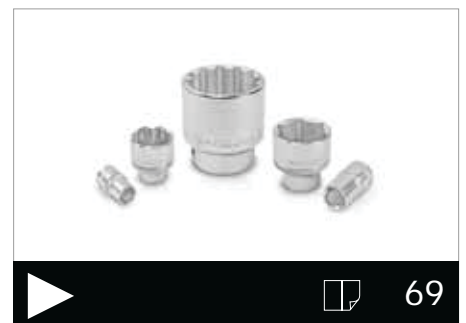
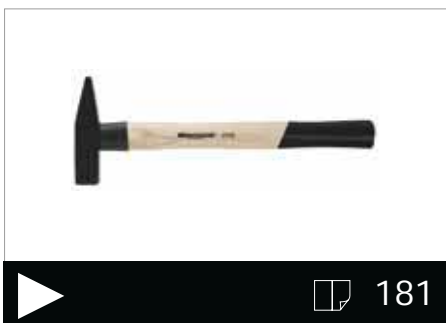
- For loosening jammed screws or nuts
- Set with the most important bits with 8 mm (5/16") external hexagon
- In solid metal case with MTS inlay



Art. Code	l mm	g	
0696 0001	160	1300	1



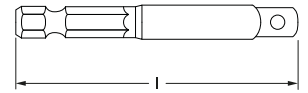
- 0696
- 7026 1,6 x 8,0 x 35 - 1,6 x 10,0 x 35 - 2,0 x 12,0 x 35 mm
- 7027 PH 2 - PH 3 - PH 4
- 7028 5 - 6 - 8 mm
- 7032 T40 - T45 - T50 - T55



## Hex Power Shank



- For use with power screwdrivers

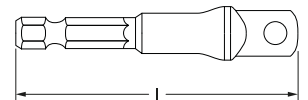


Art. Code	mm	"	mm	"	l mm	g	
2085 0001	6.3	1/4	6.3	1/4	50	15	5

## Hex Power Shank



- For use with power screwdrivers

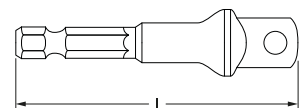


Art. Code	mm	"	mm	"	l mm	g	
3085 0001	6.3	1/4	10.0	3/8	75	25	5

## Hex Power Shank



- For use with power screwdrivers

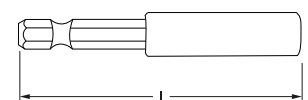


Art. Code	mm	"	mm	"	l mm	g	
4085 0001	6.3	1/4	12.5	1/2	75	30	5

## Bitholder



- To use 1/4"-Bits with heavy-duty applications, e.g. AEG, Bosch, Metabo, Holzher, Black & Decker
- With magnet



Art. Code	mm	"	mm	"	l mm	g	
7040 0001	6.3	1/4	6.3	1/4	58	27	5



# MATADOR torsion bitbox.

For cordless and impact screwdrivers.

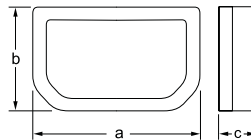


With a practical belt clip.

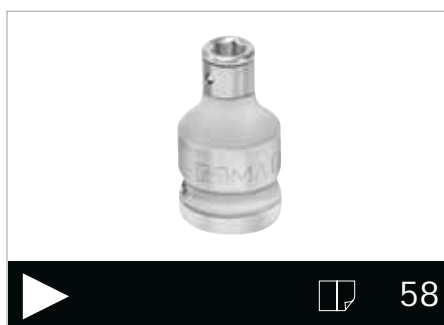
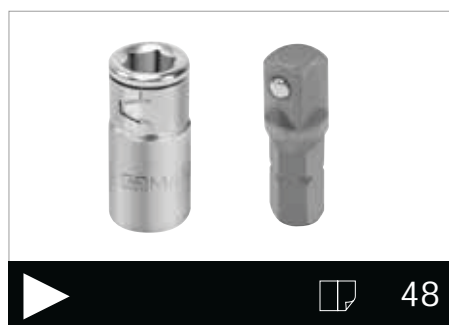
With 30 torsion bits with color guide system for quick identification.

## Bit Assortment TORSION

- Assortment with 30 Bits
- Superior lifetime
- Equally suitable for cordless and impact screwdrivers
- Absorbs the power peaks and thus ensures more elasticity
- In plastic box
- With belt clip



Art. Code	b mm	a mm	c mm	g	
7052 0003	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 - PH 3				
7027	6.3 (1/4) PZ 1 - 2 x 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	6.3 (1/4) 60 mm				
2062	6.3 (1/4)				



# Miscellaneous Tools.

Be a MATADOR.



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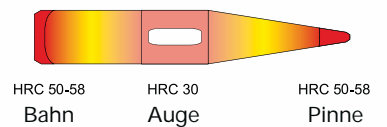
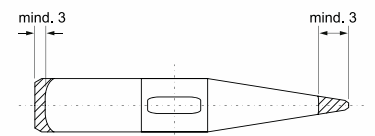
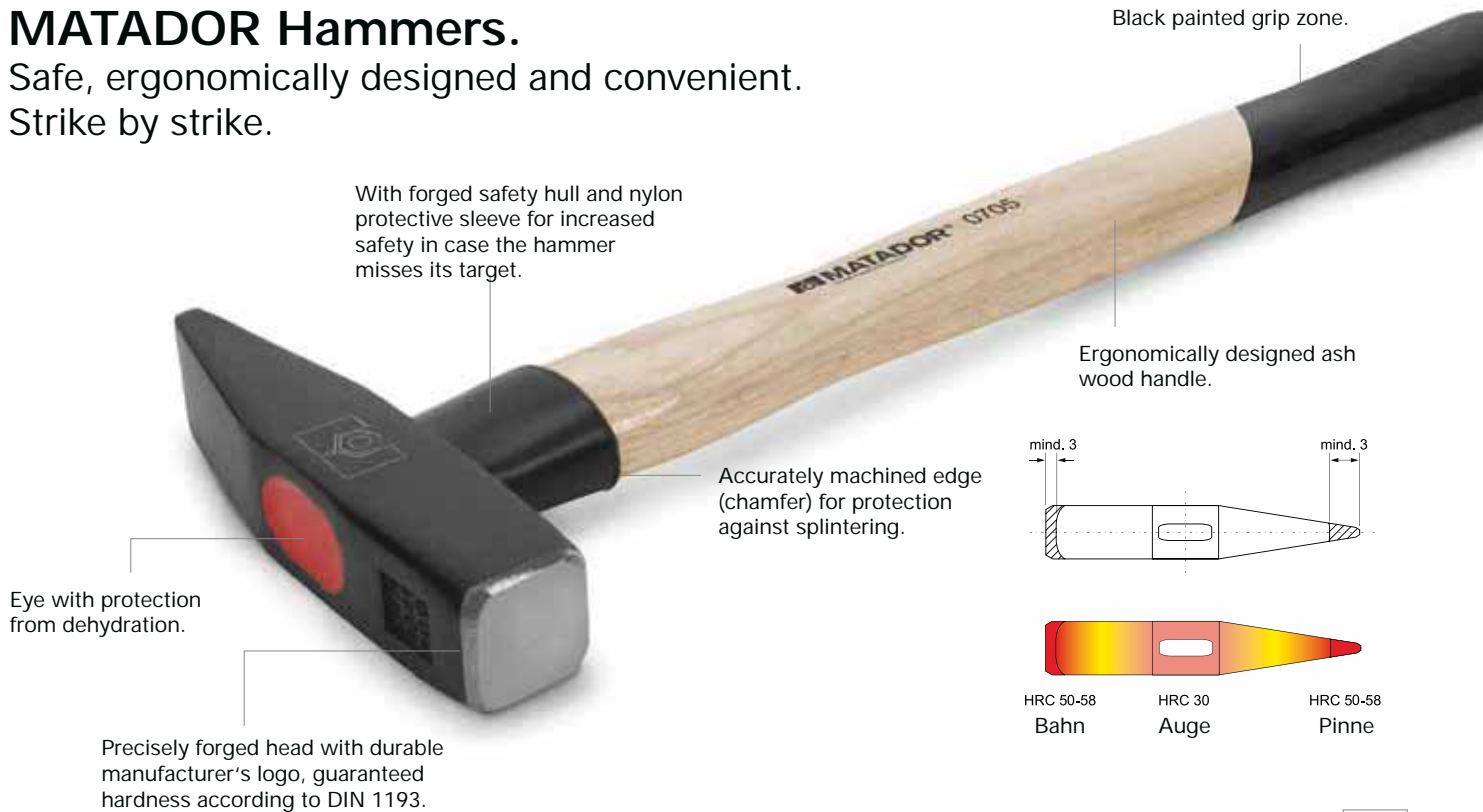


### Diverse.

- 220 Knee pads
- 220 Micro fine woven gloves
- 221 Mini Magnetic Pick Up Tool
- 221 Magnetic Pick Up Tools
- 221 Gripping Tool with Claw
- 222 Hopper
- 222 Plastic Oiler
- 223 Lever Grease Gun TWIN LOCK
- 223 Talc
- 223 Graphite
- 223 Rust remover
- 223 Brake cleaner

# MATADOR Hammers.

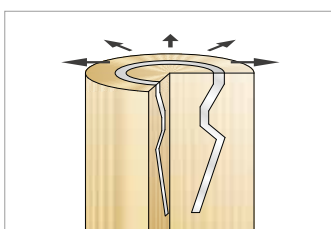
Safe, ergonomically designed and convenient.  
Strike by strike.



## 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.

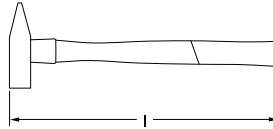
- Always wear eye protection goggles and protective gloves.
- For optimal impact the position for your hands on the handle should be as far as possible away from the hammer head.
- Always keep the hammer handle free from lubricants.
- Never misuse a hammer as a lever.
- Only use the work faces of a hammer. 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.



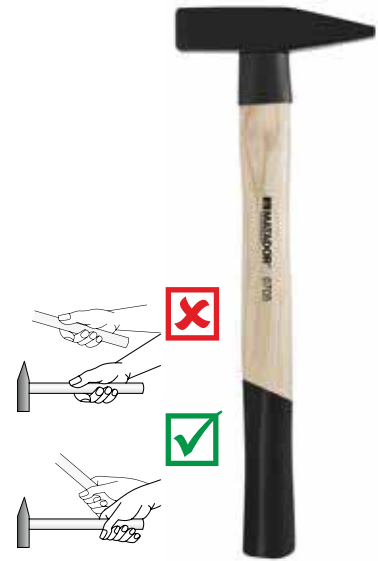
## ■ Engineer's Hammers

- 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

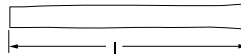


Art. Code	g	l mm	g	g
0705 0200	200	275	250	6
0705 0300	300	300	370	6
0705 0400	400	310	460	6
0705 0500	500	320	590	6
0705 0800	800	350	910	2
0705 1000	1000	355	1170	2
0705 1500	1500	380	1700	2
0705 2000	2000	400	2285	1



## ■ Spare Handles

- Ash handle for engineer's hammers
- Standard: DIN 5111
- Material: Ash

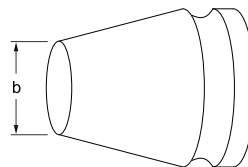


Art. Code	g	l mm	g	g
0705 0201	200	275	57	6
0705 0301	300	300	71	6
0705 0401	400	310	100	6
0705 0501	500	320	105	6
0705 0801	800	350	149	2
0705 1001	1000	355	157	2
0705 1501	1500	380	185	2
0705 2001	2000	400	285	1



## ■ Spare Collars

- Collars for engineer's hammers



Art. Code	g	b mm	g	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



## ■ 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

## ■ 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 0500	500	270	600	6
0708 0800	800	280	900	2
0708 1000	1000	280	1100	2

## ■ Sledge Hammers



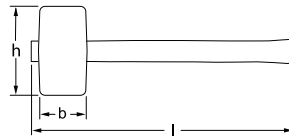
- Forged hammer head
  - Sideways smoothed and epoxy powdered
  - Handle fixed with round steel wedge and resin
  - With safety collar (tapered)
- Standard: DIN 1042 / Handle DIN 5112
  - Material: Head C 45, handle ash
  - Surface: Hand end black painted

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

## ■ Rubber Mallets, soft

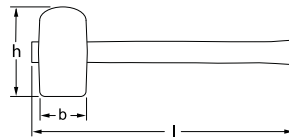
- Soft version according to DIN 5128-60
- 60 Shore D hardness
- With two flat surfaces
- With ash handle

- 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

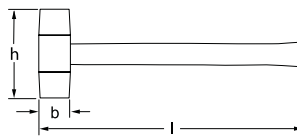
- Soft version according to DIN 5128-60
- With one flat and one curved surface
- With ash handle



Art. Code	h mm	b mm	l mm	g	
0738 0005	113	64	340	520	1

## ■ 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

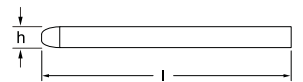
Art. Code	b mm	g	
0700 1001	22	30	6
0700 1002	27	30	6
0700 1003	32	35	6
0700 1004	35	60	6
0700 1005	40	65	2
0700 1006	50	130	2



## ■ Number Punches

- 9 numbers („0 - 9“)
- For labelling work pieces with a strength of 600 - 800 N/mm<sup>2</sup>
- Hardness at the engraving: 58 - 60 HRC
- In unbreakable, blue plastic box

- Standard: Characters acc. DIN 1451
- Material: Tool steel
- Surface: Silky matt



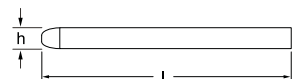
Art. Code	mm	l mm	h mm	g	
0712 0040	4	65	7	200	1
0712 0050	5	65	8	300	1
0712 0060	6	70	9	400	1
0712 0080	8	75	11	600	1

1	2	3
4	5	6
7	8	0

## ■ Letter Punches

- 27 capital letters („A - Z“, + „&“)
- For labelling work pieces with a strength of 600 - 800 N/mm<sup>2</sup>
- 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

A	B	C	D	E	F	G	H	I
J	K	L	M	N	O	P	Q	R
S	T	U	V	W	X	Y	Z	&

# MATADOR Arch Punches.

Ideal for repair of soft materials.

For stamping out felt, carpets, leather, rubber, sealing materials and other soft materials.



Cutting edge hardened to 47 - 52 HRC.

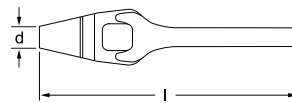


Shaft evenly machined and red lacquered.

Entirely forged.

## Arch Punches

- Standard: DIN 7200 Form A
- Material: C 35 / C 45
- Surface: Red lacquered



Art. Code	d mm	d *	l mm	g	
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 0100	10	3/8	130	129	10
0713 0120	12	15/32	130	135	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 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	175	450	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

Content 0713 3 - 6 - 8 - 10 - 12 - 16 - 20 - 25 mm



# MATADOR Striking Tools.

Hot forged and hardened as a whole.



## 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.

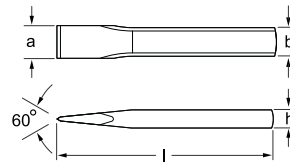




## Flat Cold Chisels

- 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



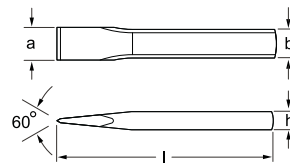
Art. Code	l mm	a mm	b x h mm	g
0714 0125	125	18	17 x 11	150
0714 0150	150	18	17 x 11	205
0714 0175	175	21	20 x 12	280
0714 0200	200	24	23 x 13	370
0714 0250	250	25	23 x 13	500
0714 0300	300	26	23 x 13	600



## 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



## 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

Content: 0714 125 - 150 - 175 - 200 - 250 mm

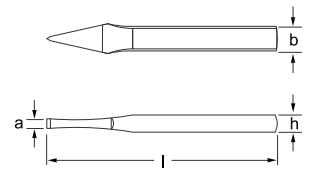


## ■ Cross-cut Chisels



- 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

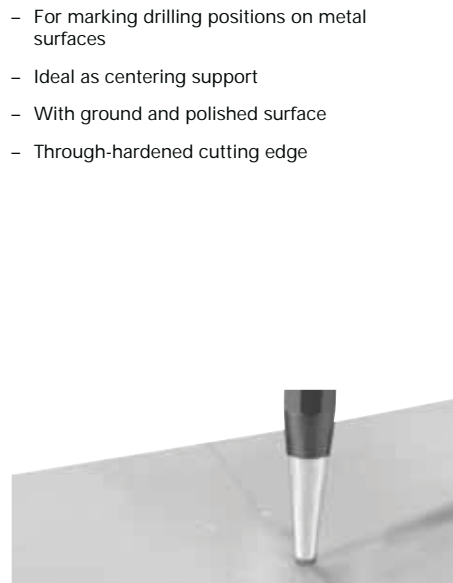
- Surface: Black lacquered



Art. Code	l mm	a mm	b x h mm	g
0715 0125	125	5	17 x 11	100
0715 0150	150	6	17 x 11	180
0715 0175	175	7	17 x 11	210
0715 0200	200	8	20 x 12	340
0715 0250	250	9	23 x 13	455

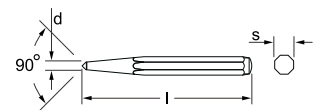


## ■ Center Punches

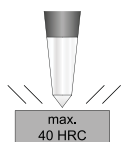


- For marking drilling positions on metal surfaces
- Ideal as centering support
- With ground and polished surface
- Through-hardened cutting edge

- Standard: DIN 7250  
- Material: Special chrome vanadium air hardening steel  
- Surface: Black lacquered

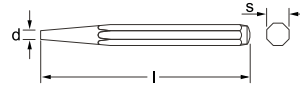


Art. Code	d mm	s mm	l mm	g
0717 0040	4	10	120	70
0717 0050	5	12	120	105



## ■ 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 0100	10	12	150	150	5



## ■ 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

6



Art. Code	g
0716 9060 	1500

Content  0716 3 - 4 - 5 - 6 - 8 - 10 mm

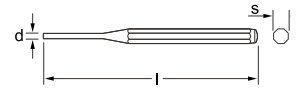


## Parallel Pin Punches



- 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
0718 0030	3	10	150	70
0718 0040	4	10	150	70
0718 0050	5	10	150	75
0718 0060	6	10	150	80
0718 0080	8	12	150	115
0718 0100	10	12	150	125

## 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
Content  0718 2 - 3 - 4 - 5 - 6 - 8 mm	1


## Parallel Pin Punches, Set



- All important parallel pin punches in practical folding metal box

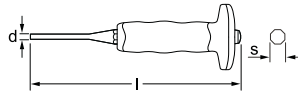
- Standard: DIN 6450 Form C
- Material: Special chrome vanadium air hardening steel
- Surface: Black lacquered



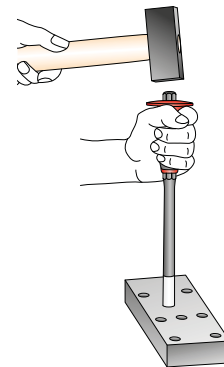
Art. Code	g
0718 9160 	800
Content  0718 2 - 3 - 4 - 5 - 6 - 8 mm	1

## 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



## 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	



# MATADOR Parallel Pin Punches PRO.

## The next level of hardness and durability.

Extremely hard. Secure disassembly with highest precision.

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 ( $\geq 59$  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:

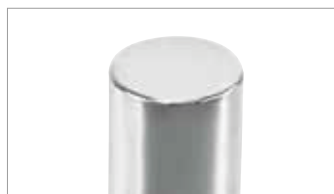
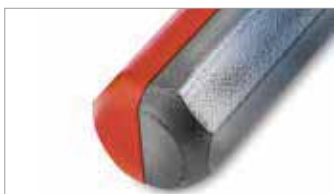
- low susceptibility to corrosion
- parallel pin punches can hardly get jammed in the drill hole
- extended service life and elasticity
- hardly any predetermined breaking points as surface notches are evened out

### 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.





## 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  
air hardening steel
- Surface: Color powder coated



Art. Code	g	
0718 9560	1500	1
Content	0718 3 - 4 - 5 - 6 - 8 - 10 mm	

## 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

## Hand protecting grip

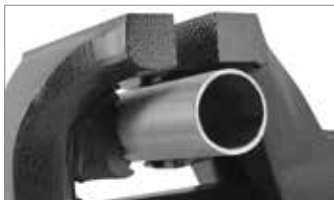
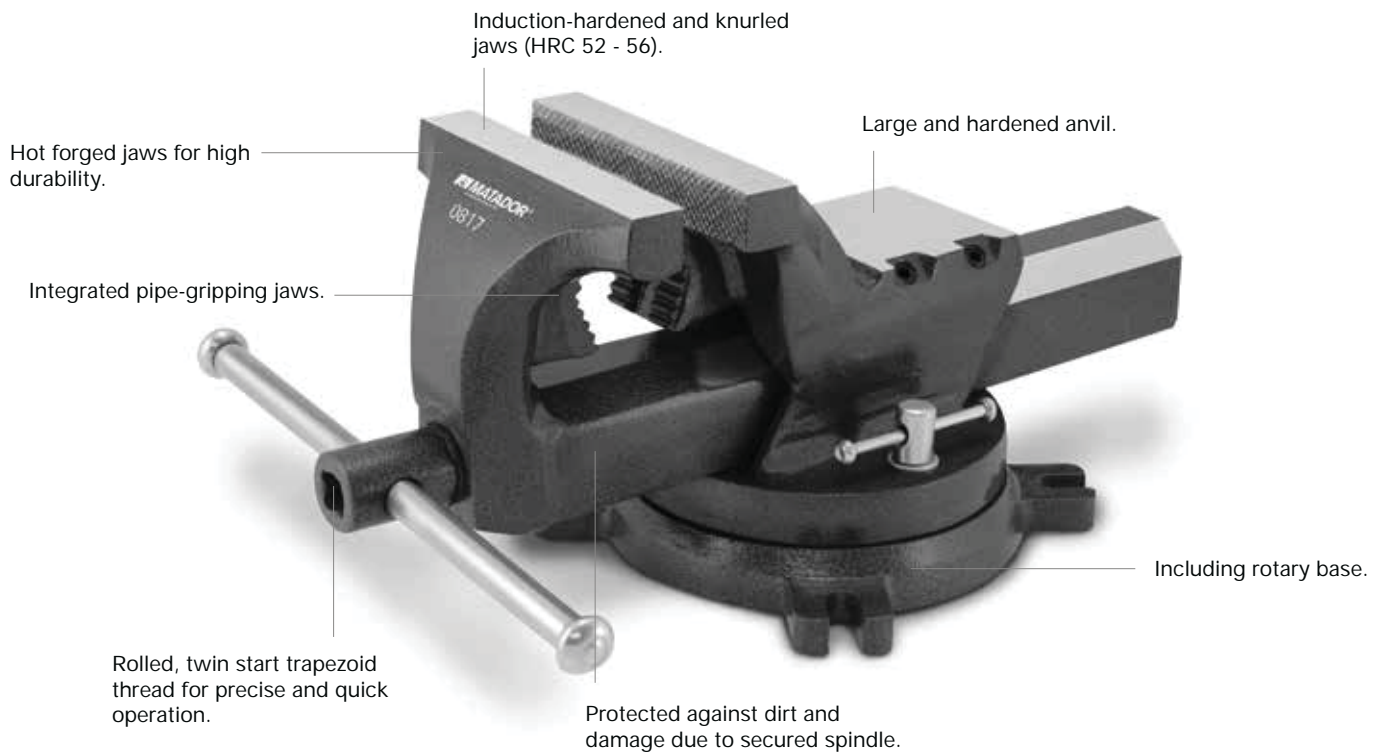
- Hand protecting grip for 8 point material
- With ergonomic 2-component handle



Art. Code	mm	l mm	g
0716 0995	10	75	15
0716 0996	14	95	50
0716 0997	18	95	50

# The MATADOR bench vice. A real classic.

Drop-forged steel and precisely machined.



With integrated pipe-gripping jaws.



Adjustable spindle guides for backlash-free operation.



Rotary base easy to fix and remove.

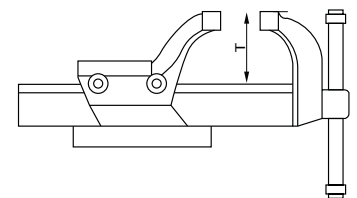
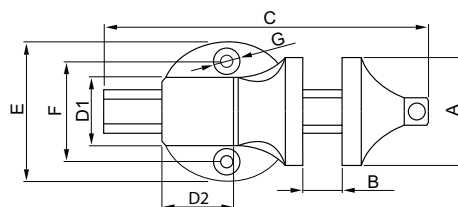


Steel arm easy to remove.

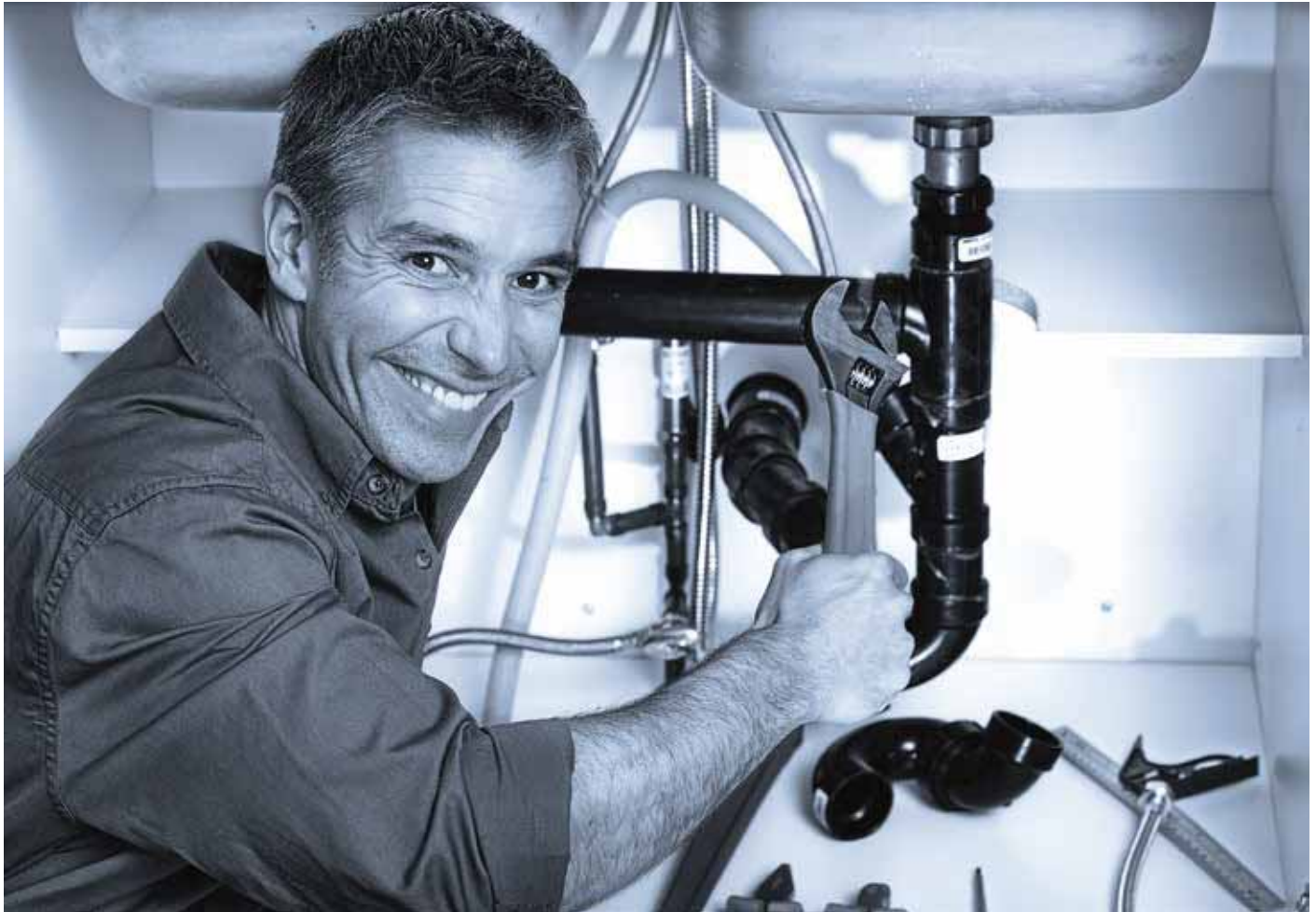
## Parallel Bench Vice, forged



- 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



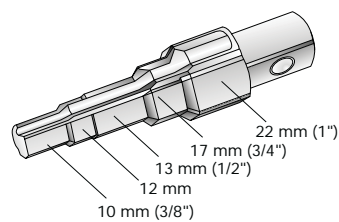
Art. Code	A mm	C mm	B mm	T mm	E mm	F mm	G mm	D1 x D2 mm	kg
0817 0100	100	350	105	60	122	89	10,5	60 x 64	6,4
0817 0125	125	385	130	75	150	108	14,0	72 x 72	11,6
0817 0150	150	490	160	95	180	139	16,5	96 x 90	21,0



## ■ Combination stepped key

12.5 mm 1/2

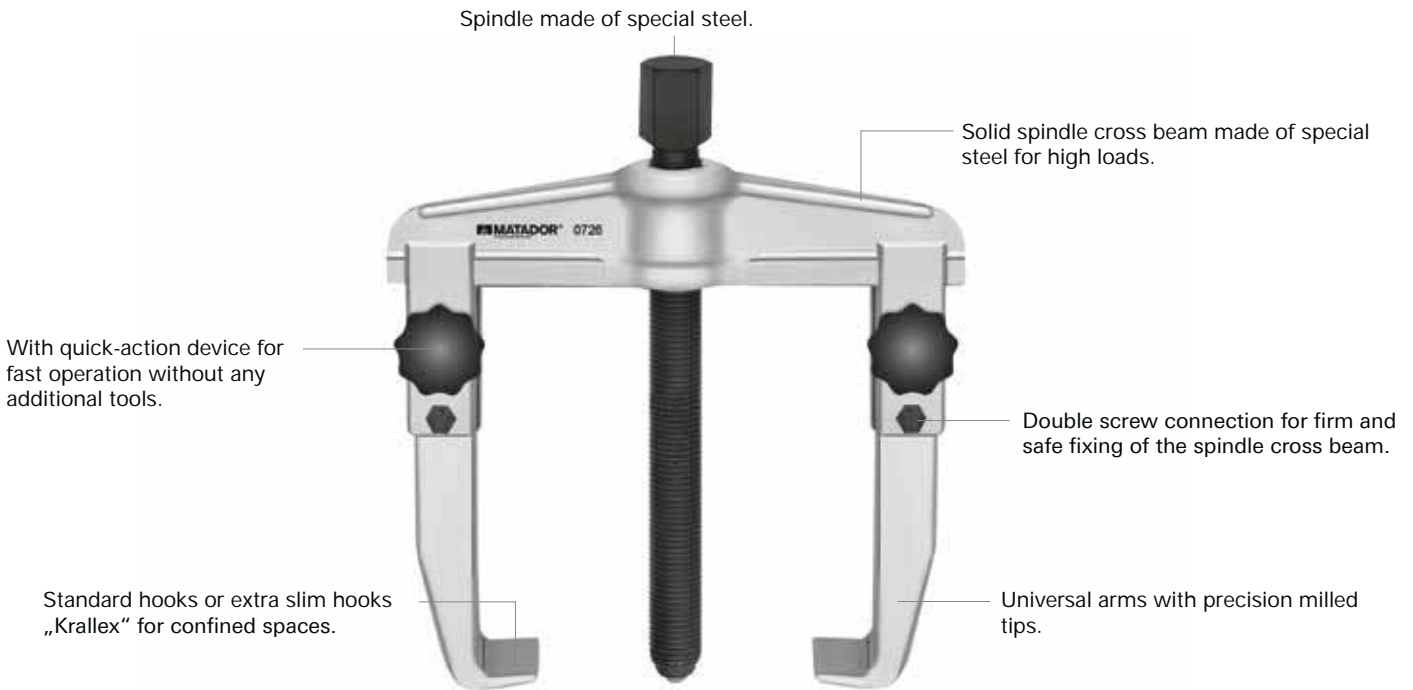
- For the installation and removal of radiator valves, runback screwed unions 3/8" - 1" and short tap extensions
- With pin, hexagon and bi-hexagon nut drive



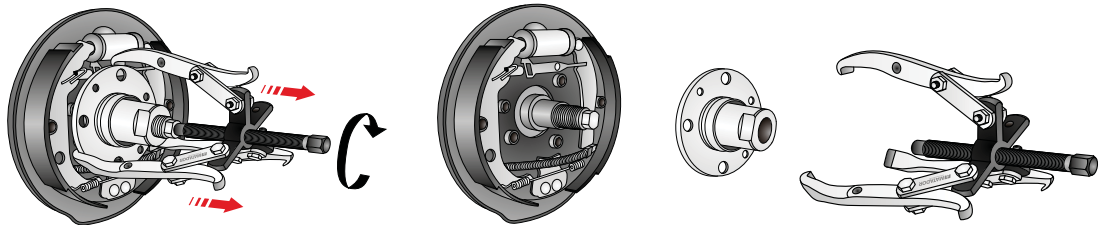
Art. Code	mm	*		g	
2000 0001	12.5	1/2		135	1
2000 0002	12.5	1/2	1/2"- Adaptor for combination stepped key	118	7

# The MATADOR pullers.

Solid quality, tried and tested.



## 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.



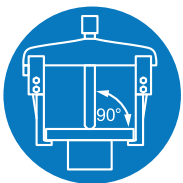
Before you start work, acquaint yourself with the proper use of the tool and pay attention to pertinent safety measures.



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.



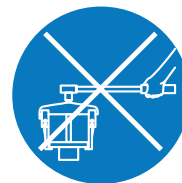
Double-check the tool for correct mounting and monitor the forces incidental to the pulling process.



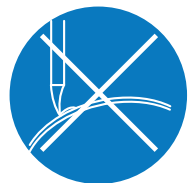
Never violate the maximum load data prescribed for the tool and use a torque wrench to keep tabs on the applied forces



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	
<b>0722 0002</b>	20 - 150	160	--	






### Pullers, 3 arms.






				
Art. Code	mm	mm	mm	
<b>0723 0002</b>	20 - 150	160	--	

### Special pullers.






Battery Terminal Pullers:

				
Art. Code	mm	mm	mm	
<b>0728 0001</b>	50	40	--	
<b>0728 0002</b>	70	65	--	






				
Art. Code	mm	mm	mm	
<b>0724 0001</b>	20 - 150	85	--	
<b>0724 0002</b>	40 - 220	130	--	

				
Art. Code	mm	mm	mm	
<b>0725 0001</b>	20 - 150	85	--	
<b>0725 0002</b>	40 - 220	130	--	





Universal Pullers:

				
Art. Code	mm	mm	mm	
<b>0726 0001</b>	20 - 90	100	70 - 130	
<b>0726 0002</b>	25 - 130	100	80 - 180	
<b>0726 0003</b>	50 - 160	150	105 - 220	
<b>0726 0004</b>	60 - 200	150	120 - 270	
<b>0726 0005</b>	80 - 250	200	160 - 330	
<b>0726 0006</b>	80 - 350	200	160 - 420	






Heavy Duty:






				
Art. Code	mm	mm	mm	
<b>0725 0010</b>	50 - 300	250	--	
<b>0725 0011</b>	50 - 400	400	--	

Ball Joint Pullers:



			
Art. Code	mm	mm	mm
<b>0729 0001</b>	18	40	40
<b>0729 0002</b>	25	50	50
<b>0729 0003</b>	29	60	60
<b>0729 0004</b>	40	80	80

Universal Pullers with Krallex hooks:






				
Art. Code	mm	mm	mm	
<b>0726 0010</b>	20 - 90	100	--	
<b>0726 0011</b>	25 - 130	100	--	
<b>0726 0012</b>	50 - 160	150	--	
<b>0726 0013</b>	60 - 200	150	--	






				
Art. Code	mm	mm	mm	
<b>0725 0021</b>	25 - 130	100	70 - 130	

Universal Ball Joint Pullers:

				
Art. Code	mm	mm	mm	
<b>0731 0001</b>	18 - 22	50	--	

Universal Pullers, Krallex, 6 legs:

				
Art. Code	mm	mm	mm	
<b>0726 0050</b>	25 - 130	100, 200, 250	--	

				
Art. Code	mm	mm	mm	
<b>0725 0031</b>	25 - 130	100	--	

				
Art. Code	mm	mm	mm	
<b>0731 0002</b>	24	50	--	

				
Art. Code	mm	mm	mm	
<b>0731 0009</b>	36	90	--	

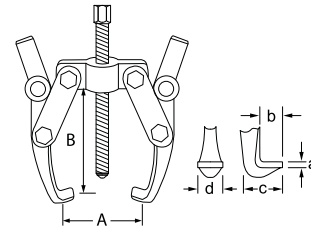
				
Art. Code	mm	mm	mm	
<b>0731 0010</b>	45	115	--	



### ■ 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

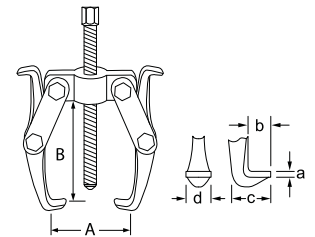


Art. Code	Legs		max. torque N-m	max. capacity t	Spindles thread x length mm	mm	Legs				kg	1
	A mm	B mm					a	b	c	d		
0722 0002	20 - 150	160	80	4,0	M14 x 1,5 x 150	16	2 / 2	7 / 7	17 / 17	10 / 18	1,1	1

### ■ 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

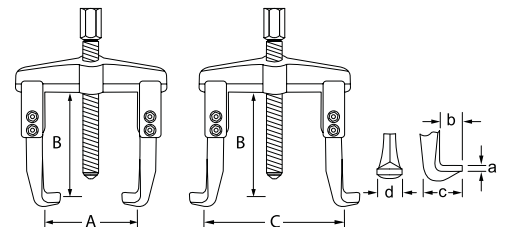


Art. Code	Legs		max. torque N-m	max. capacity t	Spindles thread x length mm	mm	Legs				kg	1
	A mm	B mm					a	b	c	d		
0724 0001	20 - 150	85	50	3,5	M14 x 1,5 x 130	17	2 / 2	9 / 11	21 / 22	12 / 17	0,9	1
0724 0002	40 - 220	130	60	4,0	M18 x 1,5 x 240	19	4 / 4	11 / 11	25 / 27	21 / 27	2,2	1

### ■ 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

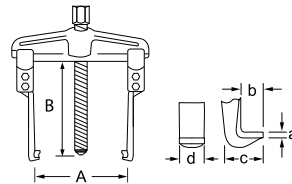


Art. Code	Legs			max. torque N-m	max. capacity t	Spindles thread x length mm	mm	Legs				kg	1
	A mm	B mm	C mm					a	b	c	d		
0726 0001	20 - 90	100	70 - 130	80	4,5	M14 x 1,5 x 130	17	3	13	25	20	1,0	1
0726 0002	25 - 130	100	80 - 180	80	4,5	M14 x 1,5 x 130	17	3	13	25	20	1,2	1
0726 0003	50 - 160	150	105 - 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



## ■ Universal Pullers, 2 arms, Krallex

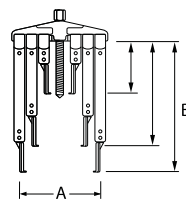
- For internal and external pulling
- With extra slim „Krallex“ hooks for confined spaces
- Surface: Zinc plated



Art. Code	A mm	B mm	max. torque N·m	max. capacity t	Spindles thread x length mm	Legs mm	kg
0726 0013	60 - 200	150	150	6,5	G1/2" x 14 Gg. x 210	22 5 8 17 40	3,3 1

## ■ 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

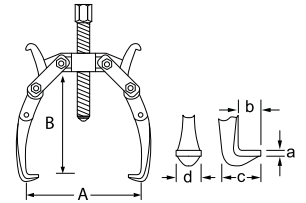


Art. Code	A mm	B mm	kg
0726 0050	25 - 130	100, 200, 250	3,2 1
0726 0051	Spare hooks		
0726 0052	Spare spindle		

### ■ 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

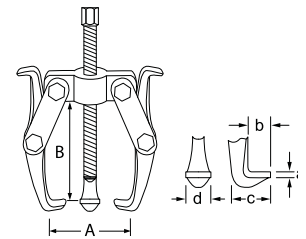


Art. Code	A mm	B mm	max. torque N-m	max. capacity t	Spindles thread x length mm	mm	mm	Legs mm	mm	mm	kg
0723 0002	20 - 150	160	80	4,0	M14 x 1,5 x 150	16	2 / 2	7 / 7	17 / 17	10 / 18	1,7

### ■ 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

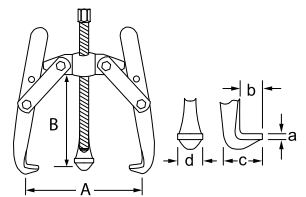


Art. Code	A mm	B mm	max. torque N-m	max. capacity t	Spindles thread x length mm	mm	mm	Legs mm	mm	mm	kg
0725 0001	20 - 150	85	60	4,0	M14 x 1,5 x 130	17	2 / 2	9 / 11	21 / 22	12 / 17	1,2
0725 0002	40 - 220	130	70	4,5	M18 x 1,5 x 240	19	4 / 4	11 / 11	25 / 27	21 / 27	2,9

### ■ Pullers, 3 arms, heavy duty



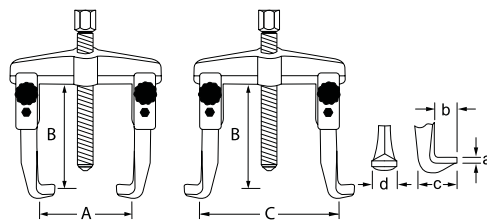
- For internal pulling
- Heavy-duty pattern
- High capacity
- Interchangeable arms to be used on both sides: one side with wide, the other side with narrow hooks
- Surface: Zinc plated



Art. Code	A mm	B mm	max. torque N-m	max. capacity t	Spindles thread x length mm	mm	mm	Legs mm	mm	mm	kg
0725 0010	50 - 300	250	220	12	G1/2" x 14Gg. x 270	22	5	25	48	30	7,3
0725 0011	50 - 400	400	220	12	G1/2" x 14Gg. x 270	22	5	25	48	30	8,8

## ■ Universal Pullers, 3 arms

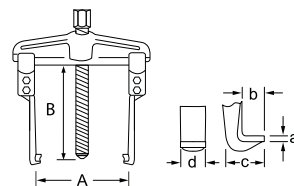
- For internal and external pulling
  - Interchangeable arms to be used on both sides: one side with wide, the other side with narrow hooks
  - Adjustable height for many applications
  - With slim hook for confined spaces
- Surface: Zinc plated



Art. Code	A mm	B mm	C mm	max. torque N·m	max. capacity t	Spindles thread x length mm	mm	mm	mm	mm	mm	kg	
0725 0021	25 - 130	100	70 - 130	80	4,5	M14 x 1,5 x 130	17	3	13	25	20	1,0	1

## ■ Universal Pullers, 3 arms, Krallex

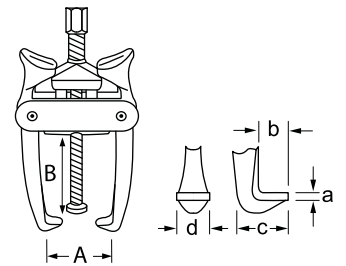
- For internal and external pulling
- With extra slim „Krallex“ hooks for confined spaces
- Surface: Zinc plated



Art. Code	A mm	B mm	C mm	max. torque N·m	max. capacity t	Spindles thread x length mm	mm	mm	mm	mm	mm	kg	
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

## ■ Battery Terminal Pullers, 2 legs

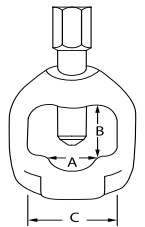
- For pulling off battery terminals, ball bearings
- Surface: Zinc plated



Art. Code	A mm	B mm	Spindles thread x length mm	Legs					g	
				a mm	b mm	c mm	d mm	g		
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

## ■ Ball Joint Puller

- For removal of ball pivots on tie-rods and stabilizers
- Wide clamping range due to infinite variability
- Surface: Zinc plated

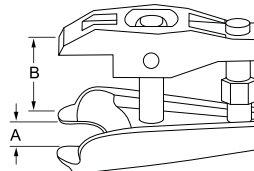


A = Jaw opening / B = max. clear height

Art. Code	A mm	B mm	C mm	max. torque N-m	Spindles thread x length mm	mm	kg	
								kg
0729 0001	18	40	40	50	M14 x 1,5 x 60	17	0,3	1
0729 0002	25	50	50	120	M16 x 1,5 x 60	17	0,7	1
0729 0003	29	60	60	160	M18 x 1,5 x 75	19	1,0	1
0729 0004	40	80	80	280	G 1/2" x 14Gg x 110	22	2,1	1

## ■ Universal Ball Joint Puller

- For passenger cars and trucks
- For removal of ball pivots on tie-rods and stabilizers
- Max. capacity up to 50 mm by reversing the bottom part
- Surface: Zinc plated



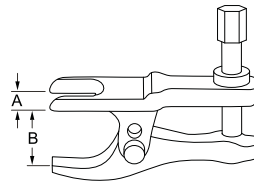
A = Jaw opening / B = max. clear height

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



## ■ Universal Ball Joint Puller

- For passenger cars and trucks
- For removal of ball pivots on tie-rods and stabilizers
- Max. capacity up to 50 mm by reversing the bottom part
- Surface: Zinc plated



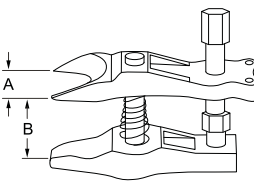
A = Jaw opening / B = max. clear height

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



## ■ Universal Ball Joint Puller (trucks)

- For trucks up to 17 tons
- For removal of ball pivots on tie-rods and stabilizers
- Max. capacity up to 90 mm by reversing the bottom part
- Surface: Zinc plated



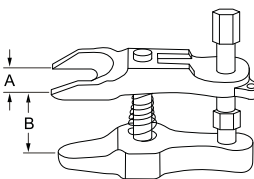
A = Jaw opening / B = max. clear height

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



## ■ Universal Ball Joint Puller (trucks)

- For trucks >18 tons
- For removal of ball pivots on tie-rods and stabilizers
- Max. capacity up to 115 mm by reversing the bottom part
- Surface: Zinc plated



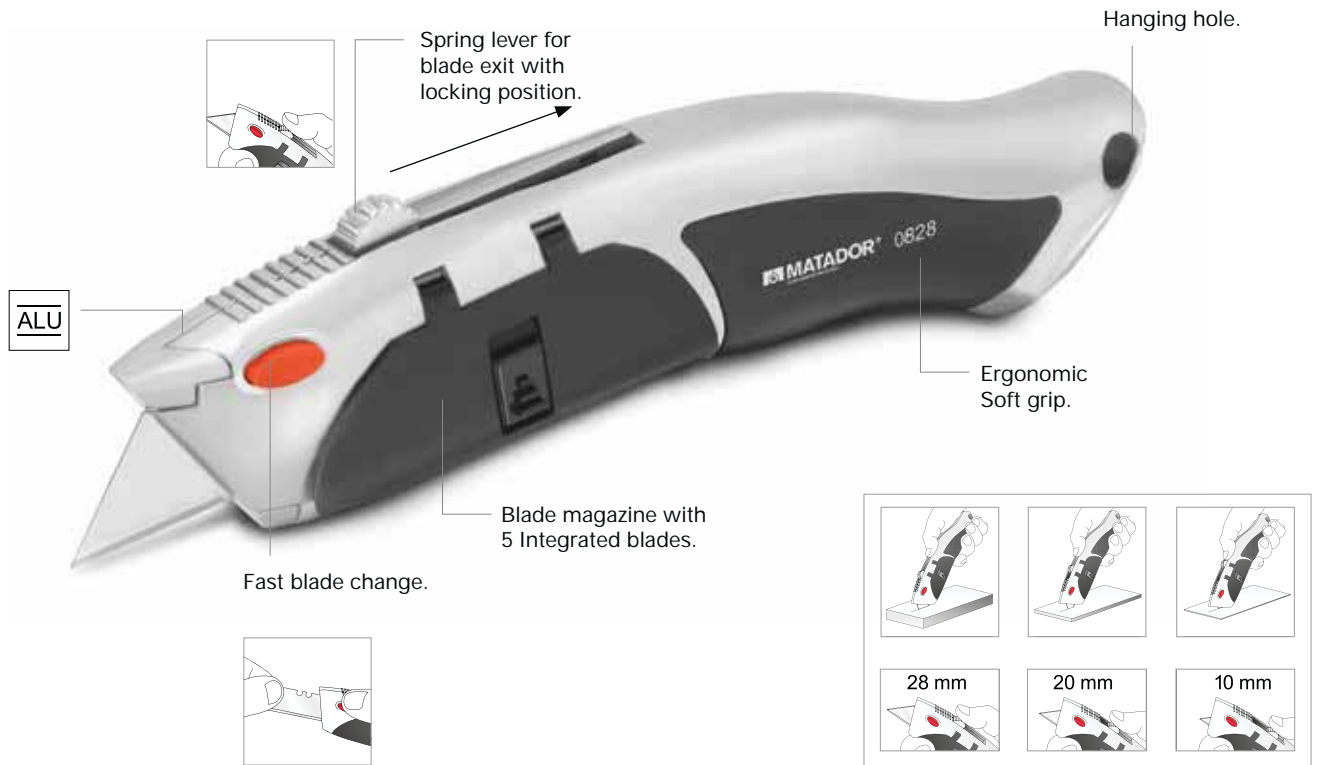
A = Jaw opening / B = max. clear height

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



# Cutting soft materials. For example with the MATADOR universal knife.

For a clean cut.

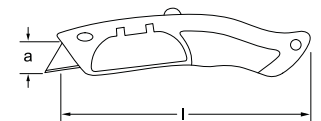


## ■ Universal knife PRO



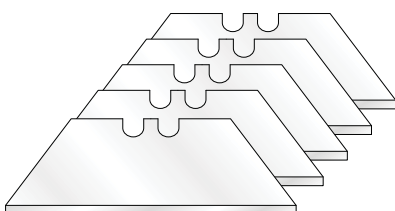
- Universal knife for 18 mm blades
- Aluminum die-cast housing with non-slip grip
- Heavy duty version
- With safety blade and automatic blade feed
- Blade pushed out to 20 mm

- Includes 10 replacement blades in the magazine

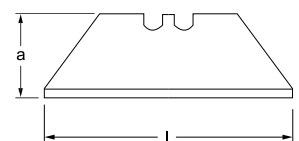


Art. Code	l mm	a mm	g	
0828 0001	170	18	200	5

## ■ Spare blades



- 10 spare blades
- Chrome-alloyed steel

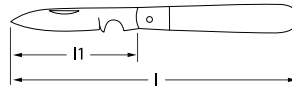


Art. Code	l mm	a mm	g	
0828 0002	62	18	20	5



## ■ Cable Knife with wooden handle

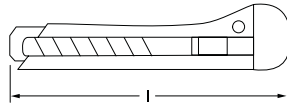
- The classic cable diameter for each tool assortment
- Blade folds away
- With straight, hardened blade
- With round cable scraper
- Moulded handle made out of wood
- Material: Stainless steel



Art. Code	l mm	l1 mm	g	
0825 0001	200	90	85	10

## ■ Universal knife ALU

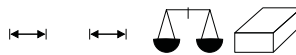
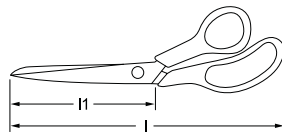
- For right handed use
- With reinforcement eyelet
- Blade 18 x 100 mm
- With 0,5 mm strong snap off blades
- Blade guide out of metal
- Housing made out of aluminium



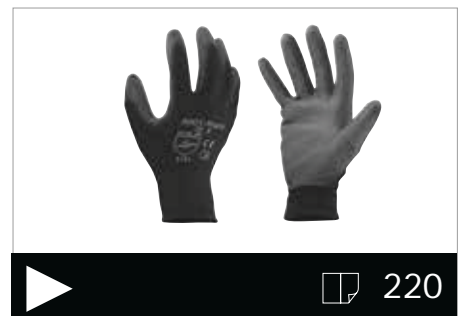
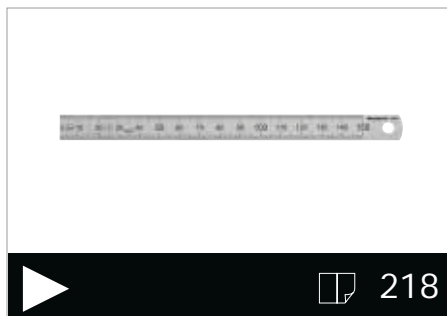
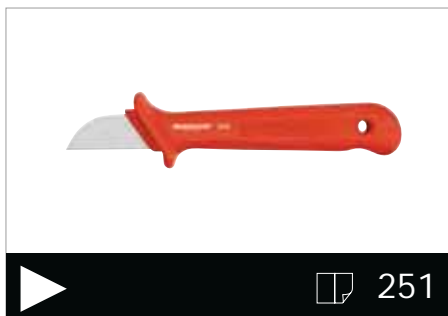
Art. Code	l mm	g	
0827 0001	140	89	5

## ■ Household Scissors

- For many applications
- Re-adjustable screw-joint



Art. Code	l mm	l1 mm	g	
0743 0001	205	65	80	6





# Cutting hard materials. Snips and tin snips. For a clean cut.



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.

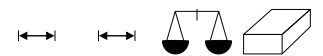
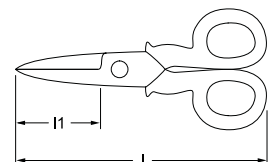
Matador's snips 745 and 747 are designed and sharpened with variable cutting edges depends on the radius:

-  Left cutting snips are designed for cutting radii from right to left.
-  Right cutting snips are designed for cutting radii from left to right.

## ■ 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

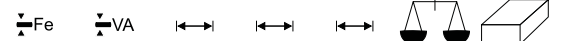
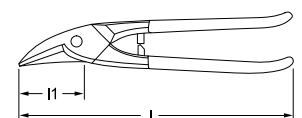


Art. Code	l mm	l1 mm	g	
0744 0001	140	50	115	6

## ■ 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

# Lever-assisted Tin Snips for optimum results. Cuts through sheet steel so easily.

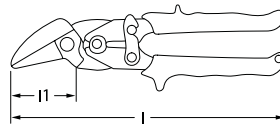


## ■ Ideal Lever Tin Snips

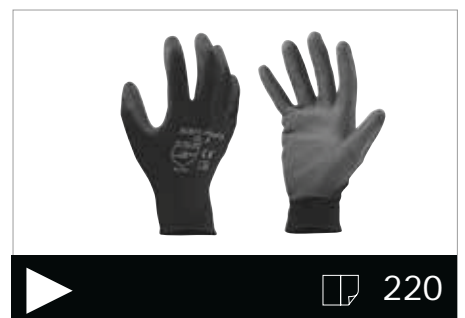
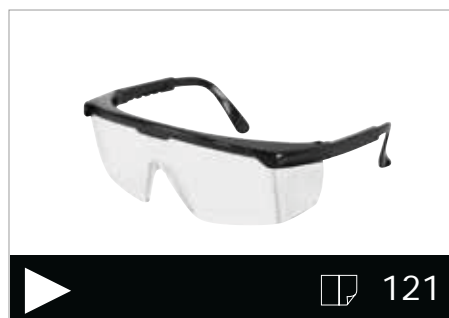
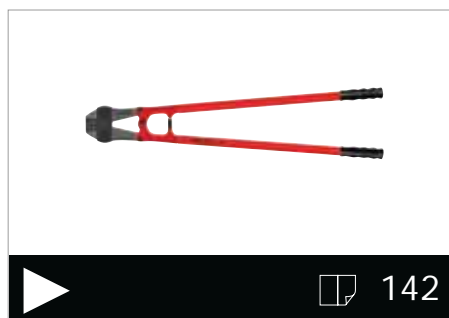


- For short, straight and figure cuts with large radius
- Micro-serrated cutting edge, prevents slipping off during cutting
- Cutting edge hardness 60 - 62 HRC
- Special cutting geometry and precision cutting for a clean cut without any burrs
- With selfopening spring with lock
- With optimum leverage 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	l mm	l"	l1 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



# If cutting does not help: Sawing.

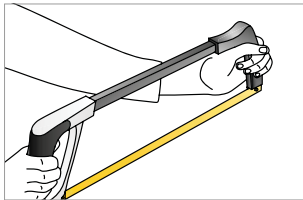
For an accurate, burr-free sawing.

Ergonomic,  
both sides rubberized  
handle.

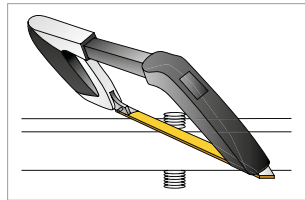


Easy sheet changes  
due to quick-apparatus.

With high performance saw  
blade bi-metal HSS DMO5.



Ideal for two-hands operation

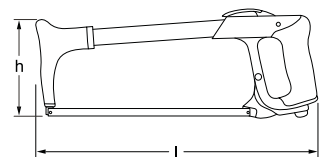


Alternative 55°-blade alignment for a  
flush sawing of pins etc.



## ■ 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

## High performance saw blades HSS DMo5

- From High Speed Steel with Surface special treatment (steam tempered)
- For cutting of metals and alloys to 800N/mm<sup>2</sup>, dental hard
- 24 teeth per inch, for excellent cutting results
- Combines high performance with security breach
- Material: Bi-metal HSS DMo5

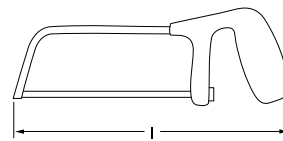


	Art. Code	l mm	l "	g	
0786 0003	300	12	20	10	



## 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	l mm	g	
0787 0704	250	170	5	
0787 0003	Blade	150	12	1

## Steel wire brush

- Bent type
- With wooden handle
- Wire fill
- With 5 rows, wood

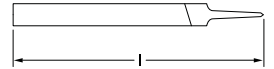


	Art. Code	l mm	g	
0782 0001	290 x 40	150	5	

## ■ Engineers' Files



- Second cut
- Ergonomic plastic handle
- Standard: DIN 7261 A-F / ISO R 234



Art. Code	Execution	l mm	l "	g	
0775 0001	Flat	150	6	100	5
0775 0010	Flat	200	8	185	5
0776 0001	Flat	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

## ■ Engineers' Files



- Second cut
- In plastic wallet

- Standard: DIN 7261 A-F / ISO R 234



Art. Code	Content	g	
0778 0002	5	750	1
Content	<ul style="list-style-type: none"> <li>0775 200 mm</li> <li>0775 200 mm</li> <li>0775 200 mm</li> <li>0775 200 mm</li> <li>0775 200 mm</li> </ul>		



## ■ 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"> <li> 0779 150 mm</li> <li> 0779 150 mm</li> <li> 0779 150 mm</li> <li> 0779 150 mm</li> <li> 0779 150 mm</li> <li> 0779 150 mm</li> </ul>	

## ■ 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

# MATADOR Scraper. Extremely sharp.

At the disposal of residues on smooth Surfaces.



## 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.

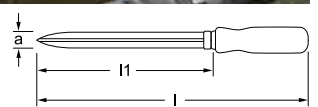
Glass scraper consists of extreme sharp blades. They are useful to remove labels, adhesive residues on surfaces of glass without causing scratches.



## ■ Three-Edged Hollow Ground Scraper



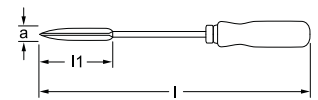
- Working ends polished
- Flanged blade made of Chrome Vanadium steel
- With lacquered wooden handle
- Standard: DIN 8350 Form B
- Material: Chrome Vanadium



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

## ■ Curved Bearing Scraper

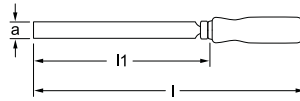
- Working ends polished
- Flanged blade made of Chrome Vanadium steel
- With lacquered wooden handle



Art. Code	l mm	l"	l1 mm	l1"	a mm	g	
0789 0001	260	10	150	6	16	100	5

## Flat scraper

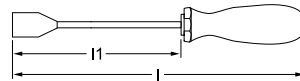
- Working ends polished
- Flanged blade made of Chrome Vanadium steel
- With lacquered wooden handle
- Standard: DIN 8350 Form A
- Material: Chrome Vanadium



Art. Code	l mm	l" "	l1 mm	l1" "	a mm	g
0790 0001	270	10	150	6	20	160
0790 0002	330	12	200	8	22	230
0790 0003	380	15	250	10	25	320

## Gasket scraper

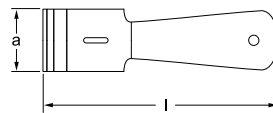
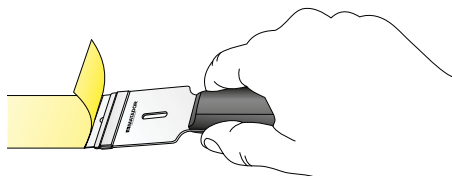
- For removal of waste on washers and gaskets
- Long type
- Working ends polished
- With impact resistant plastic handle



Art. Code	l mm	l" "	l1 mm	l1" "	g
0840 0001	250	10	150	6	110

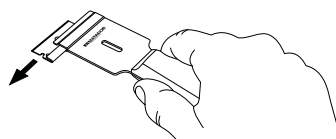
## Multi Purpose / Glass Scraper

- 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

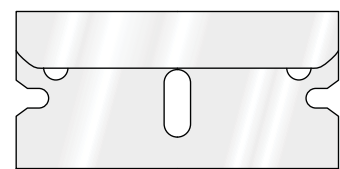


Art. Code	l mm	a mm	g
0841 0001	120	39	30

- Spare blades (10 pcs)



Art. Code	h mm	l mm	b mm	g
0841 0095	0,30	39	19,33	5



# Everything for thread repair.

## Drill. Cut. Sink.

### ■ Twist drill assortment

19

★★★★  
HSS-G



- Assortment with 19 high-performance twist drills
- For alloyed and unalloyed steel up to 900 N/mm<sup>2</sup>, 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 9191	673	1
0762 Ø 1,0 – 10,0 mm x 0,5 mm increasing		

### ■ Step drill assortment

3



- 3-piece step drill set in sturdy plastic case
- Straight fluted
- 4-12mm, (drilling steps 1mm increasing)
- 4-20mm and 6-30mm, (drilling steps 2mm increasing)
- For burr-free drilling and driving of sheet metal, tubes and profiles

Art. Code	g	
0767 0001	155	1
0767 Ø 4-12 - 4-20 - 6-30 mm		

### ■ Countersink assortment

6



- Assortment with 6 powerful countersinks in sturdy plastic case
- Right hand cutting
- Ø 6,3 - 20,5 mm, with 90° countersinking angle
- For countersinking and deburring with three cutting edges
- Standard: DIN 335

Art. Code	g	
0767 0002	155	1
0767 Ø 6,3 - 8,3 - 10,4 - 12,4 - 16,5 - 20,5 mm		

## 3in1 - Tap Set HSS



- 7 piece assortment
- From M3-M10 in sturdy plastic case
- For core drilling, thread cutting and deburring
- 1/4" hexagonal shank
- With right and left hand rotation

- Material: HSS
- Standard: DIN 3126

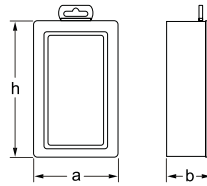


Art. Code	a mm	h mm	b mm	g	
0768 0001	70	90	30	130	1
Content	0768 M3 - M4 - M5 - M6 - M8 - M10				

## Hand Taps HSS

- Universal set of hand taps M3 - M12
- With core drills
- In a robust plastic case

- Material: HSS
- Standard: DIN 352

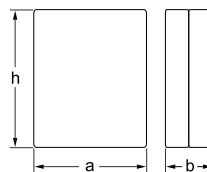


Art. Code	a mm	h mm	b mm	g	
0763 9150	115	170	40	620	1
Content	0762 M3 - M4 - M5 - M6 - M8 - M10 - M12 0762 2,5 - 3,3 - 4,2 - 5,0 - 6,8 - 8,5 - 10,2 Ø 0763 1.1/2				

## Set of circular dies HSS

- Dies in front slotted (closed) execution
- Suitable for general use e.g. in steel up to 900N/mm<sup>2</sup>
- Ø-tolerances: 2A, 6g
- In robust plastic case

- Material: HSS
- Standard: DIN 338

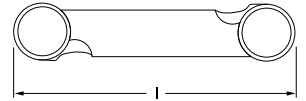


Art. Code	a mm	h mm	b mm	g	
0765 9080	100	145	40	435	1
Content	0765 M3 - M4 - M5 - M6 - M8 - M10 - M12 Ø 25 mm 0765 25 x 9				

## Thread Gauges



- For metric and Whitworth threads
- For checking inside and outside radius

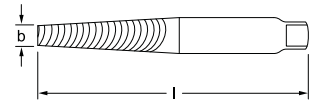


Art. Code	mm	g	
0764 0001 M	0,25 - 6,00	40	10
0764 0003 M + W	0,25 - 6,00 + 4 - 62	75	10

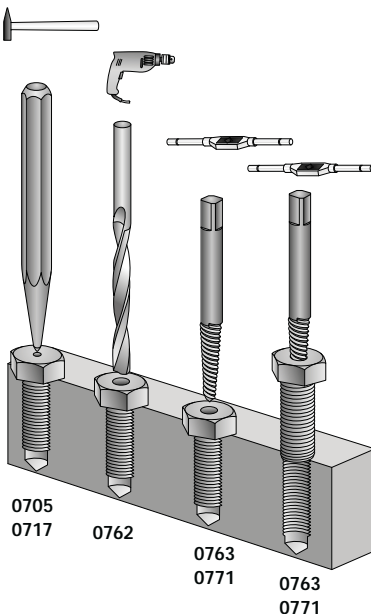
## Screw Extractor Sets



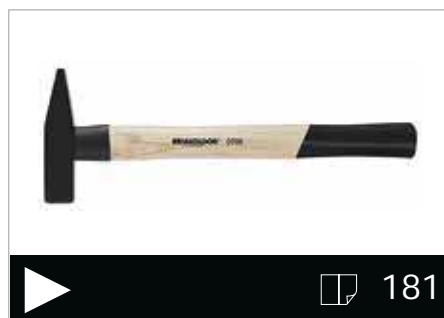
- For extracting broken screws with right-hand thread and broken-off tube ends of fittings
- Material: 59 CrMo4 hardened to 54 - 56 HRC
- With milled groove design and optimized geometry and thread length, gives rise to significant
- Surface: black finished
- Reducing the Ausdrehkräfte
- Polished shank, rolled thread
- Set in plastic box



	No.	1	2	3	4	5	6	7	8
	mm	1,75 0,069	2,2 0,087	3,3 0,130	4,75 0,187	6,35 0,250	9,5 0,375	12,7 0,5	19 0,75
	mm	3,6 5/32	5,0 3/16	6,5 1/4	8,8 21/64	11,0 7/16	15,0 19/32	19 3/4	25 1
	mm	50 2	57 2.3/8	64 2.11/16	71 3	78 3.3/8	85 3.3/4	95 4.1/8	100 4.3/8
	mm	M 3-6 1/8-1/4	M 6-8 1/4-5/16	M 8-11 5/16-7/16	M 11-14 7/16-9/16	M 14-18 9/16-3/4	M 18-24 3/4-1	M 24-33 1-1.3/8	M 33-50 1.3/8-2
	mm	2,5 3/32	3 1/8	4,5 11/64	6 15/64	8 5/16	11 7/16	14 9/16	21 53/64



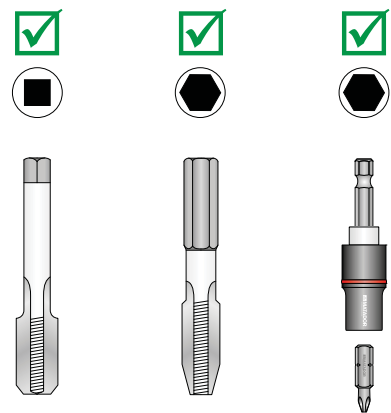
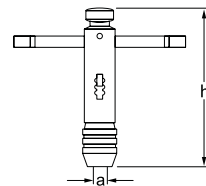
Art. Code	g	
0771 0001	150	1
0771 0002	160	1
0771 0003	800	1





## Tap wrenches

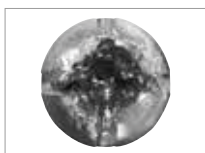
- Universal tool holder with ratchet and 2-jaw chuck
- For all tools with square or hexagonal shank (size 2)
- For taps, taps bits, bit holder with bits etc.
- With T-handle for comfortable working, adjustable and removable.
- With hardened parallel jaws, replaceable



Art. Code	Clamping range mm	a mm	h mm	g
0772 0001	2,4 - 5,5	M3 - M10	80	155
0772 0002	4,5 - 7,0	M5 - M12	100	330

## Screw-IT Screw Extractor

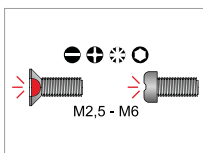
- Loosens nearly all damaged, unhardened and even rusty screws without thread repair tools
- For all threads from M2.5 - M6
- Simply drive the tip of the the MATADOR ScrewIT! into the screw head by using a hammer, then unscrew the screw



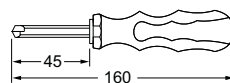
Perfect for damaged or rusted screw heads.



With impact cap for aimed release of hammer force



For all threads from M2.5 - M6.



Art. Code	a mm	g
0770 0002 M2,5 - M6	160	116



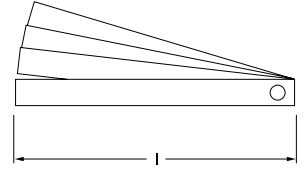
**Screw IT!**

# Measuring tools.

## ■ Feeler Gauges



- Blades fold into metal case
- Blade length 100 mm
- 4" tapered blades
- Surface: Polished
- Material: Spring steel stripmaterial

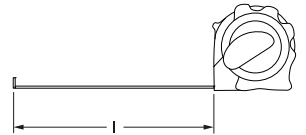


Art. Code	l mm	g
0760 0002	13	0,05 - 1,00
0760 0003	20	0,05 - 1,00
0760 0005	13	2 - 35 / 100
0760 0006	20	2 - 40 / 100

## ■ Measuring Tape



- Automatic tape rewriter with return stop
- Measuring tape vaulted
- With double scale and hook for precise inside and outside measurements
- Very solid

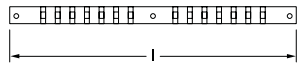


Art. Code	l m	g
0798 0002	3	70
0798 0005	5	85

## ■ Rules, flexible



- Hardened steel
- Satin chrome finish
- Etched reading mm and 1/2 mm
- Double scale
- Material: Spring hardened steel

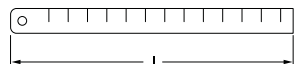


Art. Code	l mm	g
0798 1030	300 x 15 x 0,5	20

## ■ Rules, non flexible



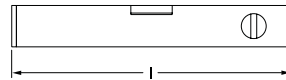
- Hardened steel
- Satin chrome finish
- Etched reading mm and 1/2 mm
- Double scale
- Material: Spring hardened steel



Art. Code	l mm	g
0798 2030	300 x 30 x 1,0	25

## ■ Spirit Level

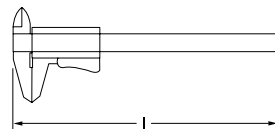
- With one horizontal and one vertical vial
- Solid acrylic block vials
- Accuracy of 0,5 mm/ metre = 0,028° in standard position
- Unbreakable, unadjustable, weather constant



Art. Code	l mm	g	
0798 9040	400	300	1

## ■ Precision Vernier Caliper

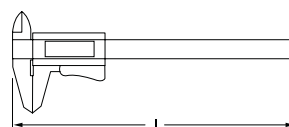
- For inside, outside and depth measuring
- Display 0.05 mm - 0.008"
- Accord. to DIN 862
- Matt chrome finish
- With raised slideways
- Vernier scale extended up to 39 mm
- Jaws 40 mm
- With thumb lock
- Material: Stainless steel



Art. Code	l mm	g	
0798 5015	150	110	1

## ■ 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

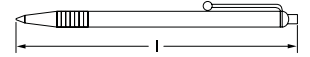


Art. Code	l mm	g	
0798 5020	150	410	1

## ■ 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

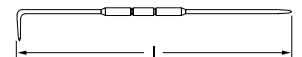


Art. Code	l mm	g	
0799 0001 Standard-Type	140	15	10

## ■ Scriber



- With one straight and one angled screwed-in steel point
- Handle gun metal finish and knurled

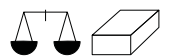


Art. Code	l mm	g	
0799 1010	250	52	10

## ■ Knee pads



- Knee pads in universal size
- With one belt
- Protects your knees during work



Art. Code	g	
7125 0001	50	1

## ■ 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

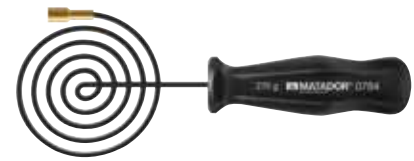
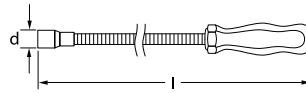


Art. Code		g	
7110 0001	L 8	10	1
7110 0002	XL 9	20	1
7110 0003	XXL 10	25	1

# Pick-up tools.

## ■ Mini Magnetic Pick Up Tool

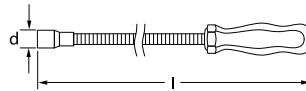
- Mini-Magnetic Pick Up Tool
- Flexible
- Diameter of magnet only 4 mm
- Perfect in household



Art. Code	g	d mm	l mm	g	
0784 0004	270	4	400	22	1

## ■ Magnetic Pick Up Tools

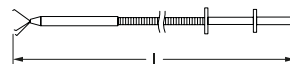
- With Neodym-magnet
- Very high capacity
- With flexible shaft



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

## ■ 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



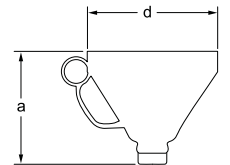
# Lubrication.



## ■ Hopper



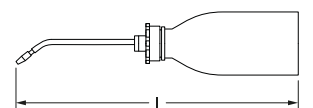
- Made of black plastic
- With strainer
- Flexible screw off tube



Art. Code	a mm	d mm	g	
0792 0001	120	160	150	1

## ■ Plastic Oiler

- With double-stroke pump
- Plastic

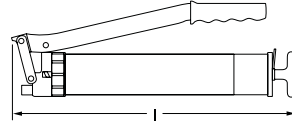


Art. Code	ccm	g	
0793 0001	300	200	5

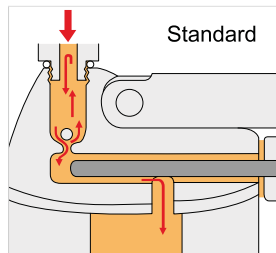


## ■ Lever Grease Gun TWIN LOCK

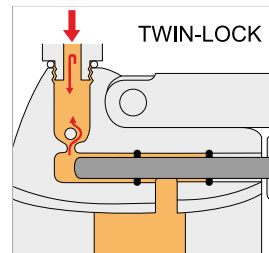
- With TWIN-LOCK system
- Against dummy-lubrication (!), the life-insurance for every bearing point
- Grease gun according to DIN 1283 - for 400 g cartridge or 500 g bulk grease
- Robust industrial construction
- Connecting thread M10 x 1
- Complete with 4-jaw hydraulic coupler, angled spout, flexible 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



Grease Gun without TWIN-LOCK system - at high backpressure the grease flows back into the barrel (dummy-lubrication)



Grease Gun with TWIN-LOCK system - 2 O-rings protect the precision made piston against abrasion and prevents the flow-back of grease into the barrel



## ■ Talc



- Highest purity
- Lubricant for all locks, hinges, bolts, etc.
- In the car, home and in the workshop

Art. Code	ml	g	
8174 0003	100	40	1

## ■ Graphite



- 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 0004	100	50	1

## ■ 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

Art. Code	ml	g	
8146 0001	500	500	1

## ■ 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

Art. Code	ml	g	
8146 0002	500	500	1

# Automotive Tools.

Be a MATADOR.



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### Special sockets.

- 241 Socket for injection nozzles
- 241 Crown socket for pre-chambers



## MATADOR bodywork and bumping tools. Top-grade industrial quality. Blow by blow.



Precisely forged.

Numerous dollies for all types of bodywork.

No split-off due to chamfered edges.



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.



## ■ 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



## ■ Dollies and Anvil Blocks

- Drop forged
- With ground faces
- Blue lacquered
- Material: Hardened / tempered steel

Art. Code	mm	g	
0734 0005	80 x 60 x 33	1050	1



## ■ Body and Fender Tools

- Drop forged
- With ground faces
- Blue lacquered
- Material: Hardened / tempered steel

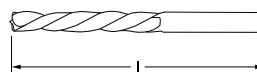
Art. Code	mm	g	
0735 0002	440 x 58 x 150	1050	1
0735 0005	300 x 50	800	1



## ■ 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

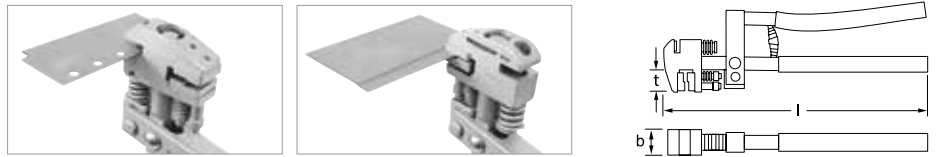
Art. Code	mm	l mm	g	
0862 0004	8	80	10	10



## ■ 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

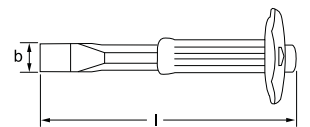


Art. Code	t mm	b mm	l mm	g	
0741 0001	20	22	290	1200	1

## ■ Car Body Chisel



- For cutting sheet metal, welding spots, welding grooves etc.
- With hand guard, blade size 7 x 26 mm
- Self hardening steel

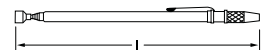


Art. Code	b mm	l mm	g	
0846 0001	26	240	150	1
0846 0091	Handschutz für Karosserie-Blechmeißel		9,5	1

## ■ Nozzle Adjusting Tool



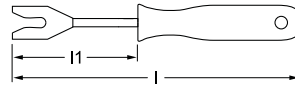
- Telescopic handle with Neodym magnetic head
- Capacity 500 g
- 6 mm diameter
- For adjusting the nozzles of the washing system, can be used to demonstrate the jet direction to the window, adjusting needle and protective cap
- With pocket clip
- Material: Special steel
- Surface: Zinc plated



Art. Code	l mm	g	
0863 0001	150 - 660	25	10

## ■ Door panels removal tool

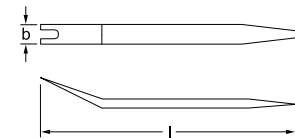
- Zum schnellen und einfachen Ausbau von Türverkleidungen
- Maulöffnung 6 mm
- Material: Spezialstahl



Art. Code	l mm	l1 mm	g	
0842 0001	176	60	90	1

## ■ 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

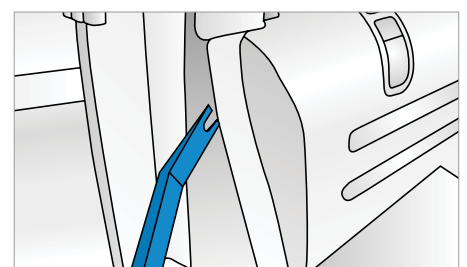
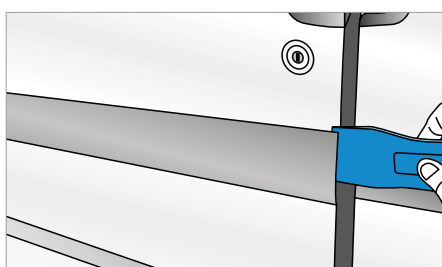
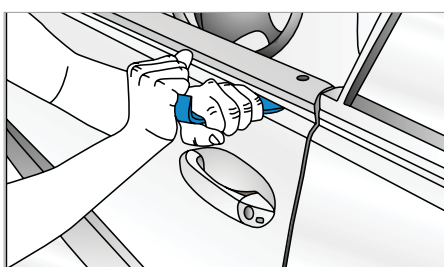


## ■ Trim & Panel Removal Kit

- 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





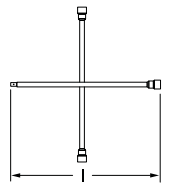
## Tools for brakes / wheels / chassis. Automotive Tools.



### ■ Four Way Rim Wrench for cars



- Welded version
- 6 point
- With MATADOR SmartDrive profile
- Material: Chrome Vanadium
- Surface: Matt chrome finished



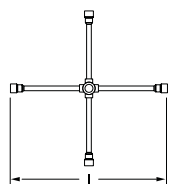
Art. Code	mm	"	l mm	g	
0350 1001	17 x 19 x 21	1/2	380	1300	5



### ■ 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



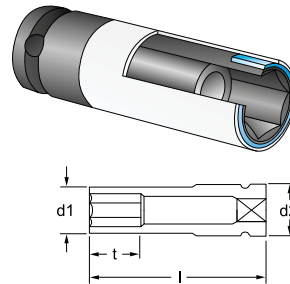
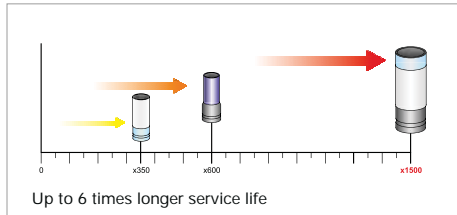
Art. Code	mm	"	l mm	g	
0356 0002	24 x 27 x 32 x 3/4"	15/16 x 1.1/16 x 1.1/4 x 3/4"	750	5750	1

## ■ 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

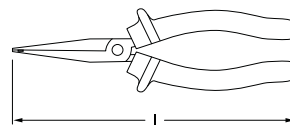


Art. Code	mm	t mm	d1 mm	d2 mm	l mm	g
7481 1170	17	20	26	25,5	86	220
7481 1190	19	20	28	27,5	86	240
7481 1210	21	20	30	29,5	86	270

## ■ 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

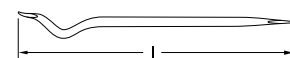


Art. Code	l mm	l"	g
0585 0014	160	8	200

## ■ 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

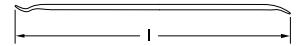


Art. Code	l mm	l"	g
0753 0002	400	16	620
0753 0003	500	20	790
0753 0004	600	24	970

## ■ 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

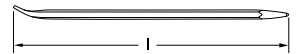
- Material: Chrome Vanadium
- Surface: Matt chrome finish



Art. Code	l mm	l" g	g	
0754 0002	400	16	425	5
0754 0003	500	20	550	5
0754 0004	600	24	750	5

## ■ Pry Bars

- With octagonal shank

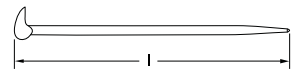


Art. Code	l mm	l" g	g	
0757 0001	400	16	550	5

## ■ Pry Bars

- Pry Bar Round Head
- For difficult applications

- Material: Chrome Vanadium
- Surface: Matt chrome finish



Art. Code	l mm	l" g	g	
0758 0001	410	20	450	5

## ■ Camber adjustment tool

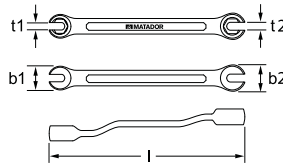
- 12,5(1/2) / 18 MM



Art. Code	l mm	l" g	g	
0202 0180	--	--	200	1

## Flare Nut Wrenches

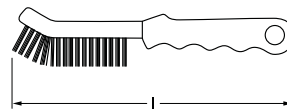
- For screwed connections on brake lines
- To reach the screws at front and back axle, reinforced design
- With 6-pt and straight slot
- Material: Chrome Vanadium
- Surface: Matt chrome finish



Art. Code	mm	Ausführung	t1 mm	t2 mm	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

## Brake Caliper Brush

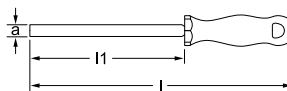
- For removal of brake dust and dirt from the caliper shaft
- For disk brakes, slim design
- With plastic handle and suspension hole



Art. Code	l mm	l"	g	
0852 0001	225	9.1/2	60	10

## Brake Caliper File

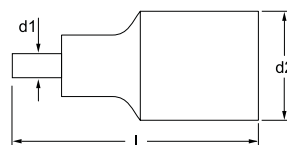
- For removal of brake dust, dirt und rust from the caliper shaft
- For disk brakes
- Cut: gross
- Coarse level cut on one side (to prevent damage of dust boot)
- With plastic handle and suspension hole
- Bevel toothed, 12 mm width
- Material: Special steel



Art. Code	a mm	l1 mm	l mm	l"	g	
0854 0001	12	155	265	10.1/2	110	10

## 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



Art. Code	d1 mm	d2 mm	l mm	g	
4078 0031	8,2 x 5,5	23	48	66	10

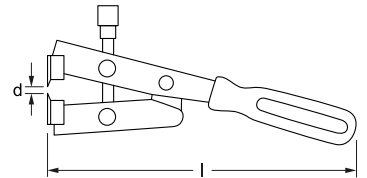
12,5 mm 1/2

## Tools for hose clamps. Automotive tools.

### ■ Hose Clamp Pliers for torque wrenches

10 mm 3/8

- 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

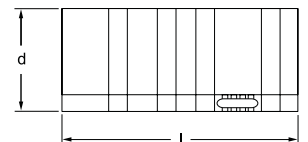


Art. Code	d mm	l mm	l "	g	
0551 0001	0,0 - 45,0	270	10.1/2	570	1

## Tools for piston rings. Automotive tools.

### ■ Piston Ring Compressors

- For inserting the piston with ring into the cylinder, stepless adjustment, with key,
- High grade tool steel

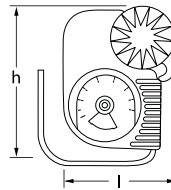


Art. Code	Ø d mm	Ø d "	l mm	l "	g	
0567 0001	40 - 75	1.1/2 - 3	50	2	90	1
0567 0002	60 - 125	2.1/4 - 5	80	3.1/8	320	1
0567 0003	90 - 175	3.1/2 - 7	80	3.1/8	360	1
0567 0004	90 - 175	3.1/2 - 7	165	6.1/2	680	1

# Tools for battery and cooling system. Automotive tools.

## ■ Antifreeze Tester

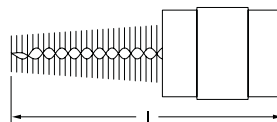
- Large, easy-to-read scale in a compact and heavy duty instrument
- Automatic temperature compensation allows accurate reading at all temperatures
- Fast, bubble free intake of fluid samples avoids measurement errors due to air bubbles
- Automatic air-lock prevents fluid loss and air bleed
- Tests all ethylene glycol antifreeze coolants



Art. Code	h mm	l mm	g	
0806 0002	131	110	130	1

## ■ Battery Terminal Brush

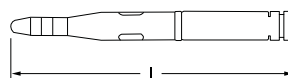
- For cleaning battery terminals
- In plastic box



Art. Code	l mm	g	
0783 0001	120	20	10

## ■ Voltage Tester

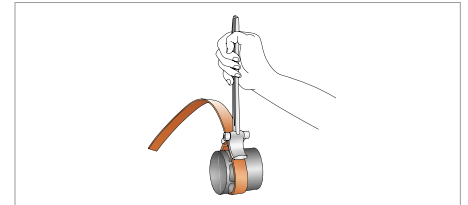
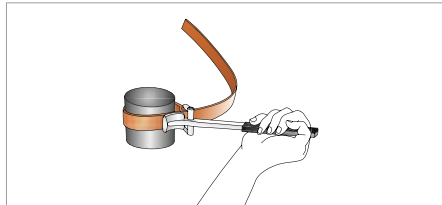
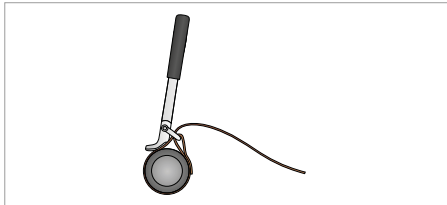
- For checking lightning and ignition systems
- Testing range 6 to 24V
- With tip, protective cap, fixed cable and clip
- blade Chrome Vanadium steel



Art. Code	l mm	g	
0633 0001	120	70	10



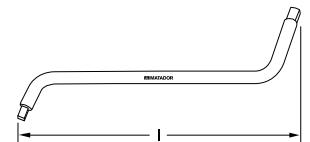
## Tools for the oil service. Automotive tools.



### ■ 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

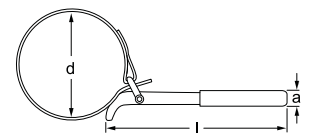
- Material: Chrome Vanadium
- Surface: Matt chrome finish



Art. Code	mm	l mm	g	
0266 0001	8 x 10	240	250	10

### ■ Universal Strap Wrenches Eco

- For oil filters and other round shaped bodies
- With cotton textile tape, rubber coated, nonskidning
- Cushion grip handle

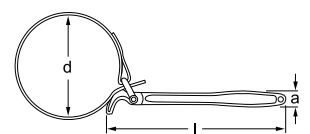


Art. Code	d mm	g	
0425 0001	max. 170	280	1
0425 0002	Ersatzband	30	1

### ■ 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, nonskidning

- Material: Chrome Vanadium
- Surface: Matt chrome finish



Art. Code	d mm	g	
0426 0001	max. 240	600	1
0426 0002	Ersatzband	40	1

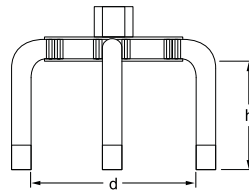


## ■ Universal Oil Filter Wrench

10 mm 3/8

- 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



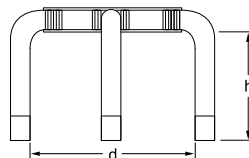
Art. Code	mm	"	mm	d mm	h mm	g	
0428 0003	10	3/8	21	80 - 130	50	680	1

## ■ 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

## ■ Oil Filter Sockets

10 mm 3/8

- Fits all standard oil filter cartridges



Art. Code	mm	"	mm	mm	mm	mm	g
0429 0001			21	14-kt	74	84	175

## Tools for spark and glow plugs.

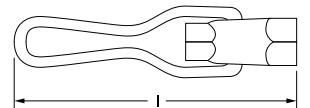
MATADOR. One of the leading suppliers for the automotive industry.



### ■ Spark Plug Wrench with handle

- Universal spark plug wrench for most applications
- With swivelling handle

- Material: C35 hardened
- Surface: Matt chrome finish

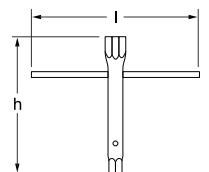


Art. Code	mm	"	mm	"	l mm	g	
0366 0001	16	5/8	20,8	13/16	155	130	5

### ■ 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

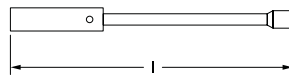


Art. Code	mm	"	mm	"	l mm	l mm	g	
0366 0002	16	5/8	20,8	13/16	150	200	290	5

## ■ Spark Plug Wrench (swivelling long type)

10 mm 3/8

- 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

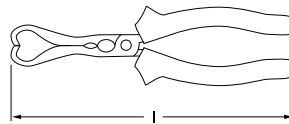


Art. Code	mm	"	mm	"	l mm	g
0367 0016	16	5/8	10	3/8	270	285

## ■ Spark Plug Pliers

2K

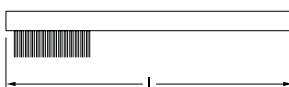
- For installing and removing of spark plug sockets
- Usable for warm engine and switched off ignition
- Long, straight, flat-round jaws
- With dual component handle



Art. Code	l mm	l "	g
0568 2001	205	8	230

## ■ 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



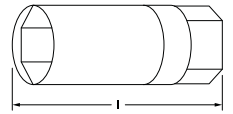
Art. Code	l mm	g
0781 0001	150	10



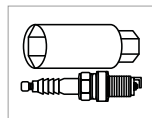
## ■ Spark Plug Sockets 10 (3/8)



- 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



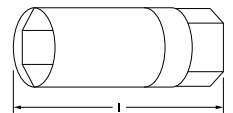
Art. Code	mm	"		l mm	g	
3081 0140	14	9/16	Rubber type	65	100	10
3081 0160	16	5/8	Rubber type	65	100	10
3081 0180	18	11/16	Rubber type	65	110	10
3081 0208	20,8	13/16	Rubber type	65	120	10
3081 1160	16	5/8	Magnetic type	70	120	10
3081 1208	20,8	13/16	Magnetic type	70	140	10



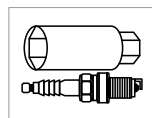
## ■ Spark Plug Sockets 12.5 (1/2)



- 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

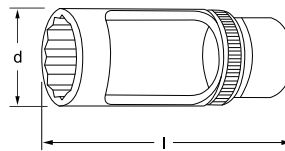


# Special sockets.

## ■ Socket for injection nozzles

12,5 mm 1/2

- 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

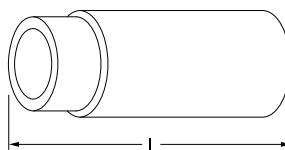


Art. Code	mm	Schlitz	d mm	l mm	g	
4081 0060	27	35 x 35	27	81	375	1

## ■ Crown socket for pre-chambers

12,5 mm 1/2

- Grooved Socket for pre-chambers
- With 58 teeth
- Material: Special steel
- Surface: Black phosphated



Art. Code	mm	l mm	g	
7053 0006	58	60	215	1



# VDE Tools.

Be a MATADOR.



## Content

### VDE.

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# MATADOR VDE-Tools. Safety first.

Working on voltage.



## 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 be supervised by independent specialists of the VDE-institute.

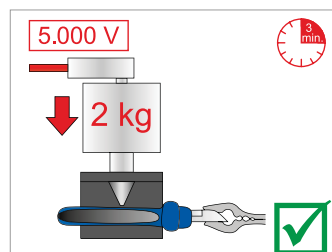
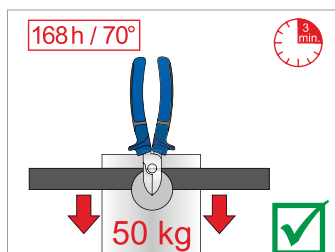
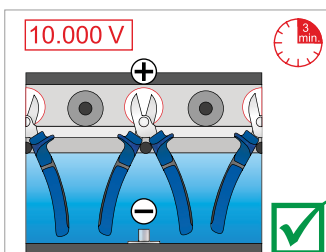
## The MATADOR Double Check coating.

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.

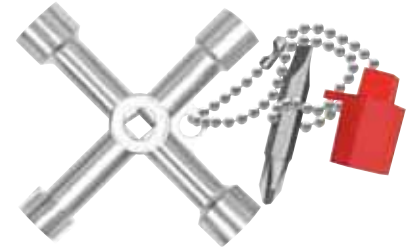
**1000 V**



## ■ 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	mm	mm	mm	g		
0160 0001	70	1,0	PH 2	5 / 7 / 8	8 / 9	4 - 10	75	10

## ■ 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	1
0448 0040	4	140	30	1
0448 0050	5	160	50	1
0448 0060	6	180	80	1
0448 0080	8	200	140	1
0448 0100	10	225	230	1
0448 0120	12	250	245	1



MATADOR  
Double  
Check

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⚡ ⚠ Ⓢ

## ■ 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



MATADOR  
Double  
Check

1000 V  
⚡ ⚠ Ⓢ

## ■ Reversible Ratchet (VDE)

1/2 12.5 mm

- With safety lock and quick-release function
- Robust toothing 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



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MATADOR  
**Double**  
**Check**

Art. Code	mm	"	l mm	g	
4161 0001	12,5	1/2	280	537	1

## ■ 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



1000 V

MATADOR  
**Double**  
**Check**

Art. Code	mm	"	mm	"	l mm	g	
4165 0001	12,5	1/2	12,5	1/2	250	410	1
4165 0125	12,5	1/2	12,5	1/2	125	206	1

## ■ 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



1000 V

MATADOR  
**Double**  
**Check**

Art. Code	mm	"AF	g	
4175 0080	8	5/16	62	10
4175 0090	9	11/32	62	10
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

## ■ Sockets long type (VDE)



- 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	
4181 0100	10	3/8	103	10
4181 0110	11	7/16	104	10
4181 0120	12	15/32	113	10
4181 0130	13	1/2	117	10
4181 0140	14	9/16	125	10
4181 0150	15	19/32	126	10
4181 0160	16	5/8	127	10

Art. Code	mm	"AF	g	
4181 0170	17	11/16	148	10
4181 0180	18	23/32	180	10
4181 0190	19	3/4	189	10
4181 0200	20/21	13/16	193	10
4181 0210	21	7/8	235	10
4181 0220	22	7/8	236	10

MATADOR  
**Double  
Check**

1000 V

## ■ 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"			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

1000 V

## ■ Long Round Nose Pliers (VDE)

 2K



- 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

1000 V



Art. Code	I mm	I "			
0520 1160	160	6.1/4		160	6

## ■ Long Flat Nose Pliers (VDE)

 2K



- 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

1000 V



Art. Code	I mm	I "			
0525 1160	160	6.1/4		185	6

## ■ Side Cutters (VDE)

 2K












- 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

1000 V



Art. Code	I mm	I "							
				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

## ■ 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

1000 V



Art. Code	I mm	I "				
			mm	Ø mm	mm <sup>2</sup>	g
0576 1160	160	6.1/4		5	10	185
						6

## ■ Telephone Pliers, straight (VDE)



- 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



1000 V

## ■ Telephone Pliers, bent (VDE)



- 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



1000 V

## ■ Cable Cutter (VDE)



- For stripping and cutting of copper and aluminium cables without any burr and up to Ø 16 mm (50 mm<sup>2</sup>)
  - 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 <sup>2</sup>	g	
0829 1160	160	6.1/4		16	50	225	6



1000 V

## ■ Pliers Assortment L (VDE)



- Pliers Assortment, in practical, transparent polypropylene box: robust packaging, stackable and easy to stock

Art. Code	g
0501 1301	735
<ul style="list-style-type: none"> <li> 0500 180 mm</li> <li> 0532 180 mm</li> <li> 0585 205 mm</li> </ul>	1
0501 1302	735
<ul style="list-style-type: none"> <li> 0500 180 mm</li> <li> 0532 180 mm</li> <li> 0586 205 mm</li> </ul>	1



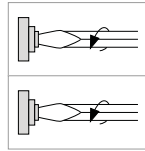
1000 V

## 2K-Screwdrivers, slotted (VDE)

2K

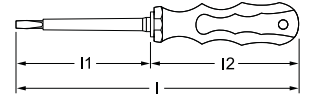


1000 V



- 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



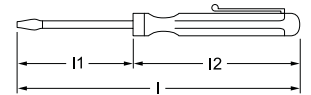
Art. Code	mm	mm	l1 mm	l2 mm	l mm	g	
0616 0425	0,4	2,5	75	85	160	40	10
0616 0635	0,6	3,5	100	95	195	47	10
0616 0840	0,8	4	100	105	205	63	10
0616 1055	1,0	5,5	125	105	230	96	10
0616 1265	1,2	6,5	150	120	270	119	10
0616 1280	1,2	8	175	120	295	182	5
0616 1610	1,6	10	200	120	320	248	5

## 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 0635	0,6	3,5	100	95	195	40	10

## 2K-Screwdrivers, PH (VDE)

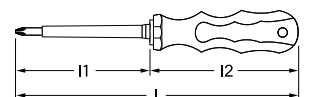
2K



1000 V

- 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



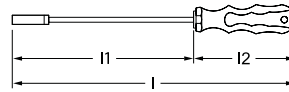
Art. Code		mm	l1 mm	l2 mm	l mm	g	
0656 0000	PH 0	5	60	90	150	43	10
0656 0010	PH 1	5	80	100	180	68	10
0656 0020	PH 2	6	100	110	210	98	10
0656 0030	PH 3	8	150	120	270	167	10



## 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
0670 1060	6	110	100	210	66
0670 1070	7	115	110	225	94
0670 1080	8	115	110	225	96
0670 1090	9	115	110	225	98
0670 1100	10	115	110	225	104
0670 1110	11	115	120	235	150
0670 1120	12	115	120	235	160
0670 1130	13	115	120	235	165
0670 1140	14	115	120	235	165
0670 1150	15	115	120	235	170
0670 1160	16	115	120	235	170
0670 1170	17	115	120	235	175



1000 V  
⚡ ⚠ ⚡

## 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

**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



2K ⚡ ⚠ ⚡

1000 V  
⚡ ⚠ ⚡

## Electrician's Scissors (VDE)

- Microserrated blade
- Material: Stainless steel, ahardness 60 HRC

Art. Code	mm	g
0744 1001	140	90



1000 V  
⚡ ⚠ ⚡

## 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

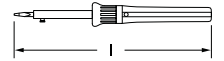


1000 V  
⚡ ⚠ ⚡

## ■ 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

**0879 0001**

**0879 0090** Solder



g

400 1

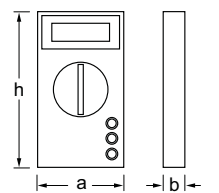
1

1000 V



## ■ Digital-Multimeter

- The digital multimeter for simple measurements in the automotive sector
- Entry-level model with excellent equipment features
- Power supply by 9 V block battery
- With test cable and detailed operating instructions



Art. Code

**0881 0001**



g

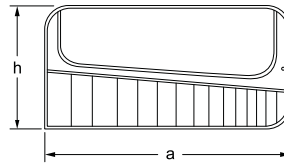
300 1

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## Electrician's Tool Kit Automotive (VDE)

51

- Tool kit for hybrid- and electric vehicle repair with 50 high quality tools, e.g.:
- Single ended spanners 8 - 24 mm
- Adjustable Wrenches
- 3-pc. set of pliers VDE with telephone pliers, combination pliers and side cutter
- 6-pc. set of screwdrivers VDE
- 12,5(1/2) Socket Set VDE with sockets 8-22 mm
- Hex Keys with T-Handle VDE
- In practical ABS hardshell case with extra storage space
- Optional with torque wrench VDE 20-100 N·m



Art. Code	h mm	a mm	g	
8130 9550				Case with tool assortment VDE 1
8130 9551				same as 8130 9550, additionally with torque wrench 1
Inhalt	<ul style="list-style-type: none"> <li>0131 8 - 24 mm</li> <li>0591 250 mm</li> <li>0500 180 mm</li> <li>0532 160 mm</li> <li>0585 180 mm</li> <li>0616 0,4 - 0,8 - 1,0 mm</li> <li>0656 PH 0 - PH 1 - PH 2</li> </ul>	<ul style="list-style-type: none"> <li>4161 Reversible ratchet</li> <li>4165 125, 250 mm</li> <li>4175 8 - 9 mm</li> <li>4181 10 - 22 mm</li> <li>0449 4, 5, 6, 8 mm</li> <li>4178 10 x 70 mm</li> <li>6179 20 - 100 N·m</li> </ul>		



1000 V

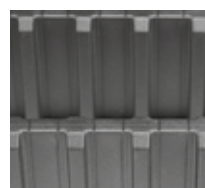
## Electrician's Tool Kit in ABS case (VDE)

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



Art. Code	h mm	a mm	b mm	g	
8130 0001	345	455	160	5700	Case empty 1
8130 9531				7800	Case with tool assortment VDE 1
Inhalt	<ul style="list-style-type: none"> <li>0131 10 - 13 - 14 - 17 - 19 - 22 mm</li> <li>0160</li> <li>0500 180 mm</li> <li>0532 160 mm</li> <li>0576 160 mm</li> <li>0559 190 mm</li> <li>0585 180 mm</li> </ul>	<ul style="list-style-type: none"> <li>0616 0,4 x 2,5 x 75 - 0,8 x 4,0 x 100 - 1,2 x 6,5 x 150 mm</li> <li>0635 0,5 x 3,0 mm</li> <li>0744</li> <li>0826</li> <li>0875</li> <li>4161</li> <li>4165</li> <li>4175 10 - 11 - 12 - 13 - 14 - 17 - 19 - 22 - 24 mm</li> </ul>			



Variable inserts for further separation



3-digit combination lock



Two lockable clip locks



Circumferential robust aluminium frame with shock edge protection



1000 V

# Workshop Equipment.

Be a MATADOR.



## Workshop Equipment.

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### Tool assortments RATIO.

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## The MATADOR workshop trolley. Almost endless varieties.



**RATIO.**  
7 or 8 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.

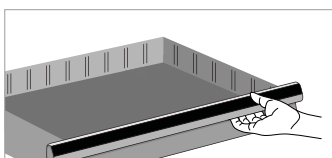
Quality starts with the sheet thickness.

As with cars the torsion resistance of a workshop trolley is mainly determined by the thickness of the metal sheet.

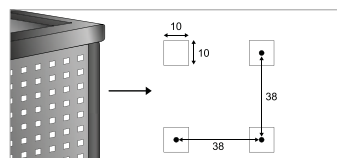
As the sheet thickness cannot be seen at first glance many sellers save on the material and use only steel sheets with a thickness of 0.7-1.0 mm. The joy of the low price is only short-lived as loadability and lifetime are only moderate.

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.



Standard Single lock the drawers on all models



Standard square perforation for wide range of accessories



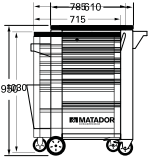
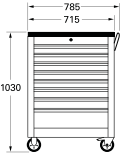
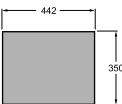
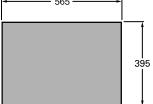




# All at a glance.

## Workshop trolleys with 7 or 8 drawers.

Concentration on the essentials.

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	R RATIO	R RATIO
Model			
External dimensions	mm		
Internal dimensions of the drawers	mm		
Number of drawers		6	7
Individual locking of the drawers		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
„One-at-a-time“ loading system		<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
Capacity / drawer	kg	35	45
Total load capacity	kg	240	500
Perforation	mm	10 x 38	10 x 38
Empty Weight	kg	55	65
Art. Code		<b>8162 0020</b>	<b>8163 0020</b>
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



# MATADOR RATIO.

## 7 drawers. For tools and more.

The premium class.

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.

Fully extendable drawers (real 100%).

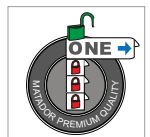


Rounded edges and integrated corner damage protection.

Both side panels with square perforation for assembly of accessories.

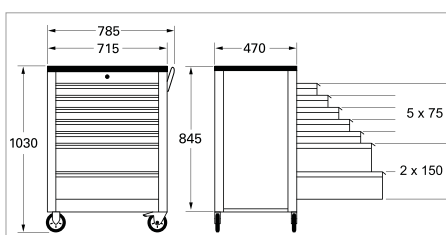
3-level locking system: central locking, single-locked drawers, mechanical interlock („one at-a-time“ locking system).

Premium powder coating in silver-aluminium / black (RAL 9006 / 9005).

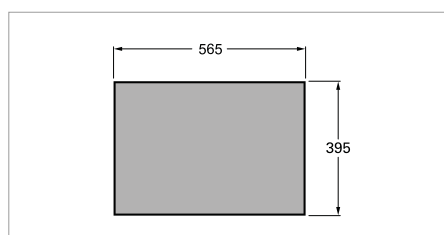


2 large ball-bearing castors.

2 flexible castors with brake.



External dimensions



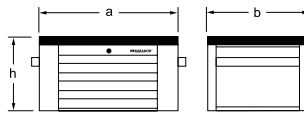
Internal dimensions of drawers



# No need to be modest in terms of space. The perfect workstation.

## ■ Tool Chest RATIO

- Stable steel sheet construction
- Premium powder coating in silver-aluminium / black (RAL 9006 / 9005)
- With 3 drawers: 3 x 75 mm narrow + 3 x 75 mm wide, all drawers 100% extendable, loadable with 45 kg each
- With 6 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

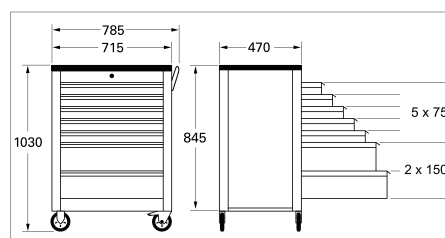


Art. Code		h mm	a mm	b mm	kg	
8163 0018	Ratio + 6	365	700	460	28	1
8163 0019	Ratio + 3	365	700	460	22	1



## ■ 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		1030	785	470	65	1
8163 0030		1030	785	470	66	1

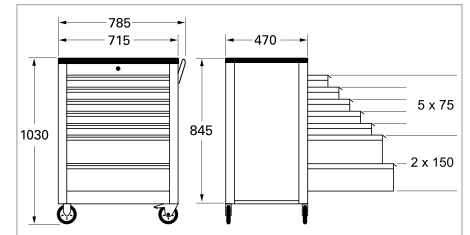


## ■ Workshop Trolley RATIO 7+3



- 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 10 drawers: all drawers 100% extendable, loadable with 40 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



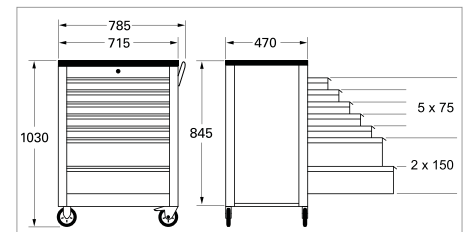
Art. Code	h mm	a mm	b mm	kg	
8163 0021	1370	700	460	29	1

## ■ Workshop Trolley RATIO 7+3/3



- 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 13 drawers: all drawers 100% extendable, loadable with 40 kg each
- Single-locked drawers and „one-at-a-time“-locking system

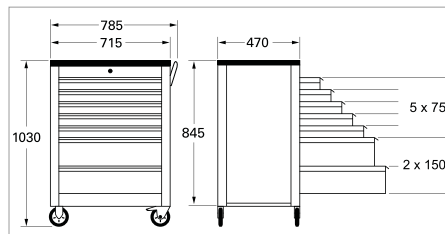
- Ball-bearing precision slides
- Side and back panels with square perforation for assembly of accessories
- Solid rubber castors including 2 ball-bearing fixed castors and 2 mobile castors with fixing brake
- Stable, extremely durable handle
- Central locking with cylinder lock



Art. Code	h mm	a mm	b mm	kg	
8163 0022	1455	700	460	116	1

## ■ Workshop Trolley RATIO 10+3/3

- 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 13 drawers: all drawers 100% extendable, loadable with 40 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

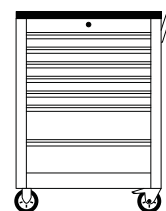


Art. Code	h mm	a mm	b mm	kg	
8163 0025	1455	700	460	116	1

## Spare parts for workshop trolleys. Quick help for small problems.

### ■ Spare Parts for RATIO

Art. Code		kg	
8163 0290	RATIO: replacement lock	0,250	1
8163 0291	RATIO: replacement handle	0,700	1
8163 0292	RATIO: Replacement telescopic rails	0,150	1
8163 0293	RATIO: replacement roll	0,500	1
8163 0294	RATIO: replacement roll, fixed	0,750	1
8163 0299	RATIO: spare key	--	1



# General Accessories. For workshop trolleys, workbenches and perforated panels.

Suitable for panels with square perforation 10 x 38 mm.

## Double Hook



Art. Code	mm	g	
8141 0110	50	80	1
8141 0111	150	180	1

## Pliers Holder



Art. Code	mm	g	
8141 0115	55 x 70	66	1

## Single Hook



Art. Code	mm	g	
8141 0100	50	40	1
8141 0101	150	60	1

## Round Holder



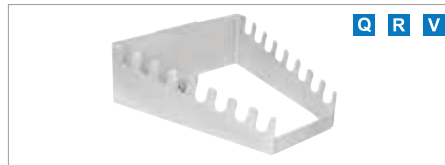
Art. Code	mm	g	
8141 0120	65 x 25	60	1

## Small Parts Holder



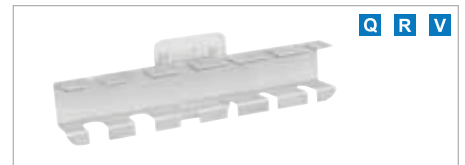
Art. Code	mm	g	
8141 0130	150 x 55	200	1

## Wrench Holder



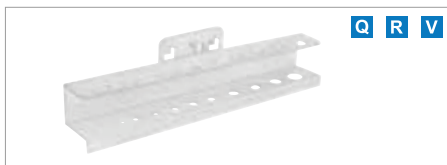
Art. Code	mm	g	
8141 0140	8x	400	1

## Screwdrivers Holder



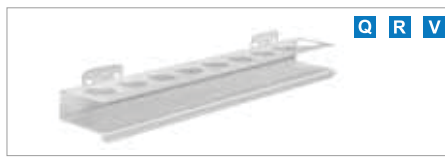
Art. Code	mm	g	
8141 0150	6x	200	1

## Drill Holder



Art. Code	mm	g	
8141 0160	14x	200	1

## Socket Holderr



Art. Code	mm	g	
8141 0180	9x	500	1

## Cable Holder



Art. Code	mm	g	
8141 0190	150	200	1

## Paper Roll Holder



Art. Code	mm	g	
8141 0200		500	1

## Waste Bin



Art. Code	mm	g	
8141 0210		1000	1

## Tin Holder



Art. Code	mm	g	
8141 0220	300 x 70	350	1



# MTS modules for workshop trolleys. Perfect organization. See what is missing.

Soft foam inlays with black and blue tools contours.

Practice-oriented product features: Environmentally friendly, resistant to oils, fuels and detergents, heat-resistant up to 112 °C and non-flammable.



Easy recognition of missing tools.

Perfect order.



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



# All at a glance. 86 modules for tools, countless varieties.

Perfectly organized tools for every field of application.

**R** RATIO    **V** VARIO

R/V 1/3

 8164 1100 8164 2100	 8164 3100 8164 4100	 8164 1183	 8164 1185 8164 2185	 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 1200	 8164 1251	 8164 1411 8164 1412 8164 1413	 8164 1421 8164 1422	 8164 0097
 8164 1441	 8164 1705	 8164 1786	 8164 1798	 8164 0098
				 8164 0095
				 8164 0099
				 8164 9999



# Modules for RATIO and VARIO.

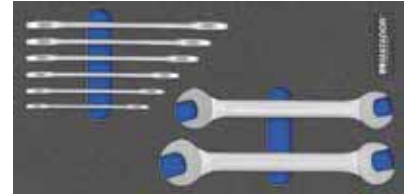
## Mehr Platz, mehr Werkzeug. More space, more tools.

### ■ 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	390	190	800	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			



**MTS** MATADOR TOOL SYSTEM.

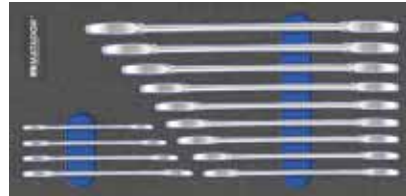
1/3

### ■ MTS-R/V: Double Open Ended Spanners XL

- Two-colored MTS inlay with 13 pcs. set of double open ended spanners
- 6 x 7 - 30 x 32 mm (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



Art. Code	a mm	b mm	g	
8164 3100	390	190	2750	1
8164 4100	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"			



**MTS** MATADOR TOOL SYSTEM.

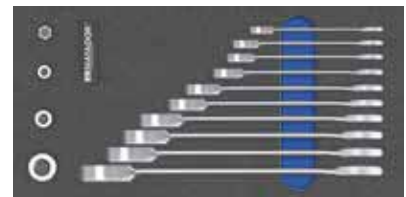
1/3

### ■ MTS-R/V: Ring Ratchet Spanners

- Two-colored MTS inlay with 14 pcs. set of ring ratchet spanners
- 6 - 22 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 1183	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			

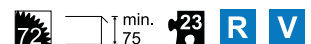


**MTS** MATADOR TOOL SYSTEM.

1/3

### ■ 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



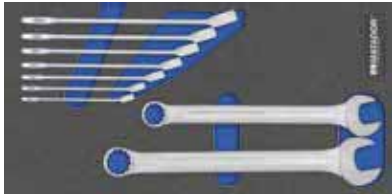
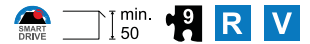
Art. Code	a mm	b mm	g	
8164 2183	570	390	4900	1
Content	0183 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 22 - 24 - 27 - 30 - 32 mm 0186 6,3 (1/4) Bit - 6,3 (1/4) - 10 (3/8) - 12,5 (1/2) mm			



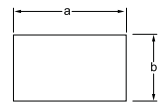
**MTS** MATADOR TOOL SYSTEM.

3/3

## ■ 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

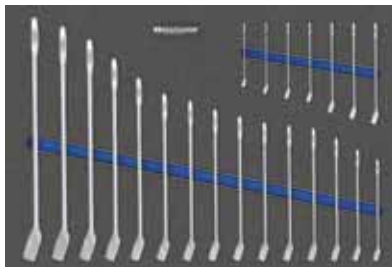
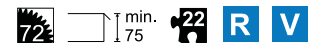


Art. Code		a mm	b mm	g	
8164 1185		390	190	900	1
Content	🔑 0185 6 - 8 - 10 - 11 - 13 - 14 - 17 - 19 - 22 mm				

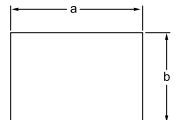
**MTS** MATADOR TOOL SYSTEM.

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## ■ MTS-R/V: Combination Spanners XL, angled



- Two-colored MTS inlay with 22 pcs. set of combination spanners DIN 3113 A
- 6 - 34 mm
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO

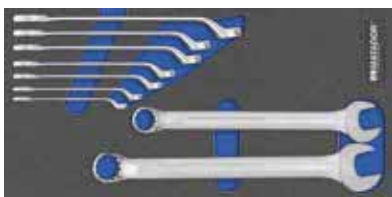
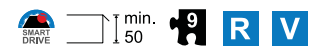


Art. Code		a mm	b mm	g	
8164 3185		570	390	4100	1
Content	🔑 0185 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 - 34 mm				

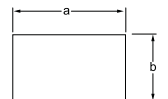
**MTS** MATADOR TOOL SYSTEM.

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## ■ 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

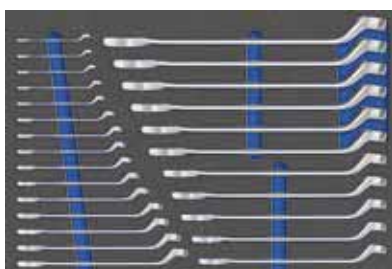
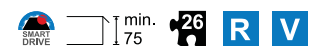


Art. Code		a mm	b mm	g	
8164 1190		390	190	1100	1
Content	🔑 0190 6 - 8 - 10 - 11 - 13 - 14 - 17 - 19 - 22 mm				

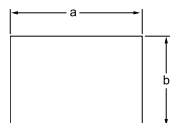
**MTS** MATADOR TOOL SYSTEM.

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## ■ 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

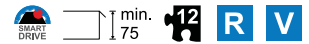


Art. Code		a mm	b mm	g	
8164 3190		570	390	7300	1
Content	🔑 0190 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 26 - 27 - 28 - 29 - 30 - 32 mm				

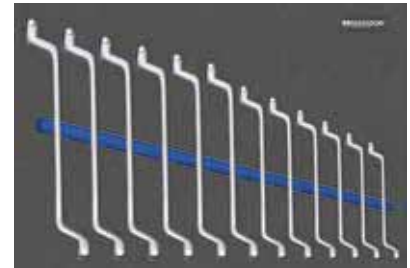
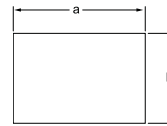
**MTS** MATADOR TOOL SYSTEM.

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## ■ 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

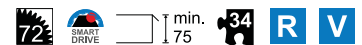


Art. Code	a mm	b mm	g	
8164 1200	570	390	3300	1
Content	0200 6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 - 21 x 23 - 24 x 27 - 25 x 28 - 30 x 32 mm			

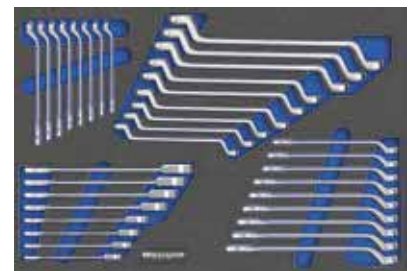
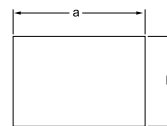
**MTS** MATADOR TOOL SYSTEM.

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## ■ 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<sup>®</sup>-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

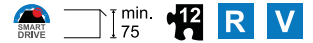


Art. Code	a mm	b mm	g	
8164 1194	570	390	4750	1
Content	0100 6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 mm 0190 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 mm 0200 6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 - 21 x 23 mm			
8164 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			

**MTS** MATADOR TOOL SYSTEM.

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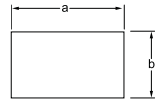
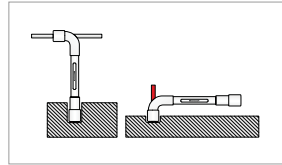
## ■ MTS-R/V: Pipe Head Spanners



- 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			



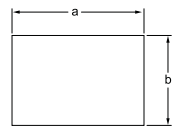
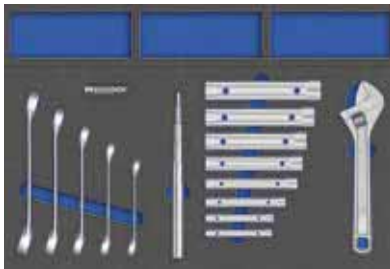
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## ■ MTS-R/V: Spanners Supplement



- 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	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 ø 5 - 12 mm			
	0591 250 mm / 10"			



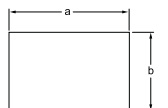
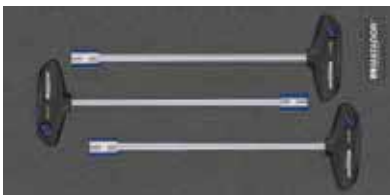
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## ■ MTS-R/V: Nut Drivers with T-Handle



- 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
Inhalt	0671 12 - 13 - 14 x 230 mm			
8164 4671	390	190	400	1
Content	0671 8 - 10 - 13 x 230 mm			

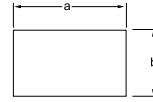


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## ■ MTS-R/V: Socket Set 6.3 (1/4)



- Two-colored MTS inlay with 85 pcs. socket set
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



Art. Code		a mm	b mm	g	
8164 1201		390	190	1600	1
8164 1203		390	190	1600	1
Content					
	0442	1,5 - 10 mm			
	2061	6.3 1/4			
	2065	50, 100 mm			
	2068	6.3 1/4			
	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				
		3 - 4 - 5 - 6 mm			
		3 - 4 - 5 - 6 mm			
		PH 1 - PH 2 - PH 2 - PH 3			
		PZ 1 - PZ 2 - PZ 2 - PZ 3			
		T10 - T15 - T20 - T25 - T27 - T30 - T40			
		T10 - T15 - T20 - T25 - T27 - T30 - T40			



**MTS** MATADOR TOOL SYSTEM.

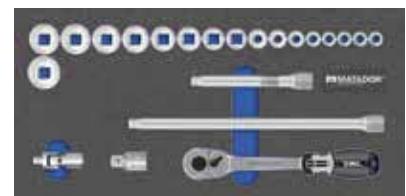
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## ■ MTS-R/V: Socket Set 10 (3/8)



- Two-colored MTS inlay with 22 pcs. socket set
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO

Art. Code		a mm	b mm	g	
8164 1301		390	190	1320	1
8164 1302		390	190	1320	1
8164 1303		390	190	1200	1
Content					
	3061	10 3/8			
	3065	125, 250 mm			
	3068	10 3/8			
	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"			



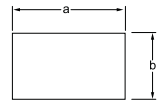
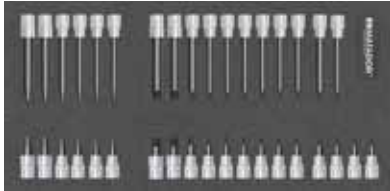
**MTS** MATADOR TOOL SYSTEM.

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## ■ MTS-R/V: Socket Set 10 (3/8) Hex, TORX<sup>®</sup>, XZN



- Two-colored MTS inlay with 36 pcs. set of flare nut wrenches and crow foot spanners
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



Art. Code	a mm	b mm	g
8164 3078	390	190	2400 1
Content	3078 4 - 5 - 6 - 7 - 8 - 10 x 48 mm 4 - 5 - 6 - 7 - 8 - 10 x 92 mm 3079 M5 - M6 - M8 - M10 x 48 mm M8 - M10 x 92 mm 3092 T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 x 48 mm T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 x 92 mm		

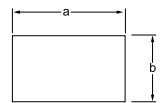
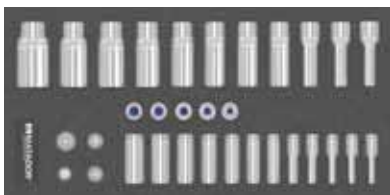


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## ■ MTS-R/V: Socket Set 6,3 (1/4), 10 (3/8) long type



- Two-colored MTS inlay with 32 pcs. set of flare nut wrenches and crow foot spanners
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



Art. Code	a mm	b mm	g
8164 3082	390	190	2400 1
Content	2081 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm 3081 8 - 10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 - 21 - 22 mm 3079 E8 - E10 - E11 - E12 - E14 2083 10 3/8 3083 12 3/8 1/2		

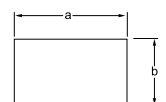


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## ■ MTS-R/V: Socket Set 10 (3/8) supplement



- 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



Art. Code	a mm	b mm	g
8164 3093	390	190	1300 1
Content	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		



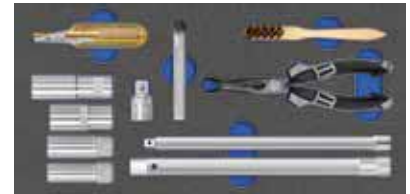
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## ■ MTS-R/V: Tools Set for Spark Plugs

- 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



Art. Code	a mm	b mm	g	
8164 3081	390	190	1100	1
Content	<ul style="list-style-type: none"> <li>0372 5/8" x 16 mm</li> <li>0383 14 mm</li> <li>0568 205 mm</li> <li>0633 6 - 24 V 120 mm</li> <li>0760 13 x 0,05 - 1,00 mm</li> <li>0781 150 mm</li> <li>3081 14 - 16 - 18 - 20,8 mm</li> <li>4082 12,5 (1/2) - 10 (3/8)</li> </ul>			



**MTS** MATADOR TOOL SYSTEM.

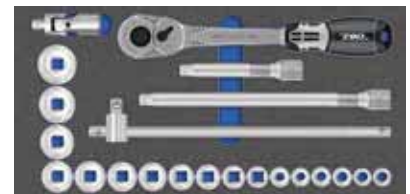
1/3

## ■ MTS-R/V: Socket Set 12.5 (1/2)

- Two-colored MTS inlay with 22 pcs. socket set
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



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"> <li>4061</li> <li>4064 300 mm</li> <li>4065 125, 250 mm</li> <li>4068</li> <li>4075 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 mm</li> <li>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"</li> </ul>			



**MTS** MATADOR TOOL SYSTEM.

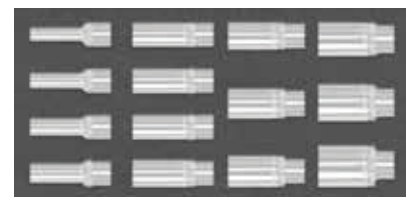
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## ■ MTS-R/V: Sockets 12.5 (1/2), long type

- Two-colored MTS inlay with 14 pcs. of long type sockets
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



Art. Code	a mm	b mm	g	
8164 4081	390	190	2400	1
Content	<ul style="list-style-type: none"> <li>4081 10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 - 21 - 22 - 24 - 27 - 30 - 32 mm</li> </ul>			

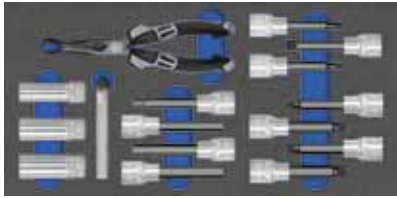


**MTS** MATADOR TOOL SYSTEM.

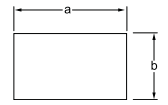
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## ■ MTS-R/V: Screwdriver Sockets Automotive



- Two-colored MTS inlay with 16 pcs. screwdriver socket set
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO

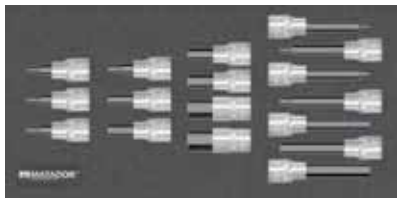


Art. Code	a mm	b mm	g	
8164 1481	390	190	1915	1
Content	0568 205 mm			
	0760 13 x 0,05 - 1,00 mm			
	4081 16 - 18 - 20,8 mm			
	4078 5 x 100 - 6 x 100 - 7 x 100 - 8 x 100 mm			
	4079 M6 x 100 - M8 x 100 - M10 x 100 - M12 x 100 mm			
	4092 T 45 x 100 - T 55 x 100 - T 70 x 100 mm			

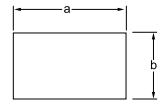


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## ■ MTS-R/V: Screwdriver Sockets (Hex)



- Two-colored MTS inlay with 16 pcs. screwdriver socket set
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO

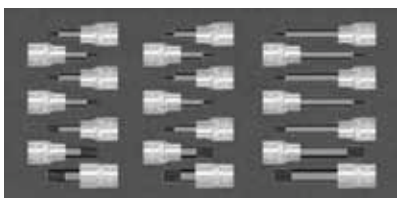


Art. Code	a mm	b mm	g	
8164 4078	390	190	2400	1
Content	4078 4 x 62 - 5 x 62 - 6 x 62 - 7 x 62 - 8 x 62 - 10 x 62 - 12 x 62 - 14 x 62 - 17 x 62 - 19 x 62 mm			
	4 x 100 - 5 x 100 - 6 x 100 - 7 x 100 - 8 x 100 - 10 x 100 - 12 x 100 mm			

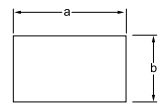


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## ■ MTS-R/V: Screwdriver Sockets (XZN / RIBE<sup>®</sup>)



- Two-colored MTS inlay with 21 pcs. screwdriver socket set
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO

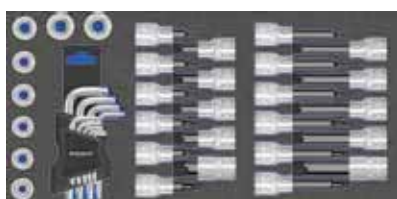


Art. Code	a mm	b mm	g	
8164 4079	390	190	2500	1
Content	4079 M5 x 62 - M6 x 62 - M8 x 62 - M10 x 62 - M12 x 62 - M14 x 62 - M16 x 62 mm			
	M5 x 100 - M6 x 100 - M8 x 100 - M10 x 100 - M12 x 100 - M14 x 100 - M16 x 100 mm			
	4080 M5 x 62 - M6 x 62 - M8 x 62 - M10 x 62 - M12 x 62 - M14 x 62 - M16 x 62 mm			

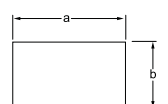


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## ■ MTS-R/V: Screwdriver Sockets (TORX<sup>®</sup>)



- Two-colored MTS inlay with 39 pcs. screwdriver socket set
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



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 - T40 x 100 - T45 x 100 - T50 x 100 - T55 x 100			
	T60 x 100 - T70 x 100 - T80 x 100 mm			



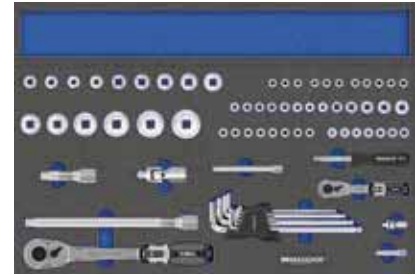
1/3

## ■ 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		570	390	3900	1
8164 1412		570	390	3900	1
8164 1413		570	390	3900	1
Content	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"				



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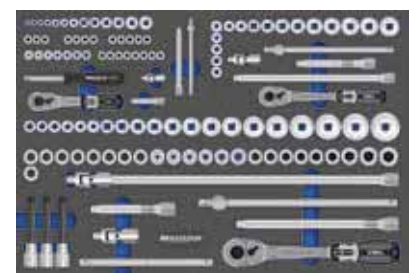
3/3

## ■ MTS-R/V: Socket Set XL

- Two-colored MTS inlay with 120 pcs. socket set



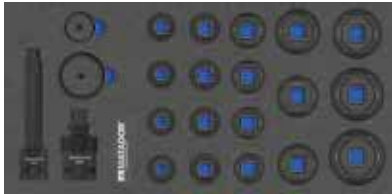
Art. Code		a mm	b mm	g	
8164 1421		570	390	9100	1
8164 1422		570	390	9100	1
Content	2061				
	2064 115 mm				
	2065 50, 100 mm				
	2068				
	2073 150 mm				
	2075 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm				
	2076 4 - 5,5 - 7 x 32 mm				
	2077 PH 1 - PH 2				
	2077 PZ 1 - PZ 2				
	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				



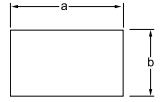
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## ■ MTS-R/V: Impact Sockets (short type)



- 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	390	190	3900	1
Content	12.5mm 1/2 7465 125 mm 12.5mm 1/2 7458 12.5mm 1/2 7475 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 - 34 mm 12.5mm 1/2 7499			

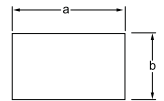


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## ■ MTS-R/V: Impact Sockets (long type)



- 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	390	190	4350	1
Content	12.5mm 1/2 7481 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 mm 12.5mm 1/2 7499			

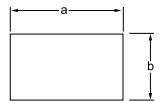


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## ■ MTS-R/V: Impact Sockets 20 (3/4)



- Zweifarbige MTS-Einlage mit 14-tlg. Satz Kraft-Steckschlüsseln
- Passend für Werkstattwagen RATIO und VARIO, mit Leermod Two-colored MTS inlay with 14 pcs. impact sockets set



Art. Code	a mm	b mm	g	
8164 7575	390	190	6000	1
Content	20 3/4 7575 24 - 27 - 30 - 32 - 36 mm 20 3/4 7581 17 - 19 - 22 - 24 - 27 - 30 mm 20 3/4 7582 20 (3/4) - 12.5 (1/2) 20 3/4 7599			

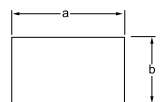


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## ■ MTS-R/V: Pneumatic Tools



- Two-colored MTS inlay with impact wrench and air blow gun
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



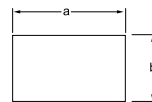
Art. Code	a mm	b mm	g	
8164 1700	390	190	2200	1
Content	7000 <sup>max</sup> 1.490 N-m 7003 300 mm 813 N-m			



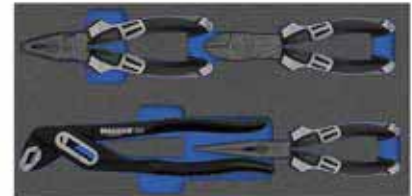
1/3

## ■ MTS-R/V: Pliers

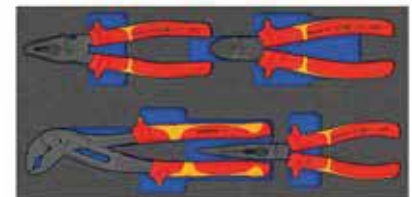
- Two-colored MTS inlay with 4 pcs. set of pliers
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



Art. Code	a mm	b mm	g		
<b>8164 1500</b>	390	190	1200	1	
<b>8164 1502</b>	VDE	390	190	1200	1
Content	<b>0500</b> 180 mm (7")				
	<b>0530</b> 180 mm (7")				
	<b>0565</b> 240 mm				
	<b>0585</b> 205 mm (8")				
<b>8164 1501</b>	390	190	1200	1	
<b>8164 1503</b>	VDE	390	190	1200	1
Content	<b>0500</b> 180 mm (7")				
	<b>0530</b> 180 mm (7")				
	<b>0565</b> 240 mm				
	<b>0586</b> 205 mm (8")				



8164 1500 / 8164 1502 (VDE)  
with straight telephone pliers



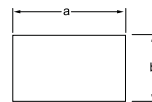
8164 1501 / 8164 1503 (VDE)  
with bent telephone pliers

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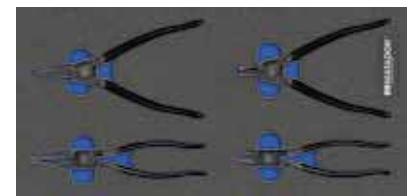
1/3

## ■ MTS-R/V: Circlip Pliers

- 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	
<b>8164 1504</b>	390	190	750	1
Content	<b>0578</b> A2 180 mm			
	<b>0580</b> A21 165 mm			
	<b>0582</b> J2 180 mm			
	<b>0584</b> J21 165 mm			

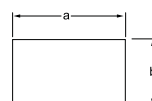


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## ■ MTS-R/V: Circlip Pliers XL

- 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	
<b>8164 1505</b>	390	190	1000	1
Content	<b>0578</b> A3 225 mm			
	<b>0580</b> A31 215 mm			
	<b>0582</b> J3 225 mm			
	<b>0584</b> J31 210 mm			



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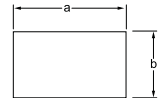
## ■ MTS-R/V: Screwdrivers



- Two-colored MTS inlay with 10 pcs. screwdriver set
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



8164 1616 (VDE)



Art. Code	a mm	b mm	g	
8164 1615	390	190	600	1
8164 1616	390	190	600	1

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

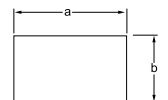
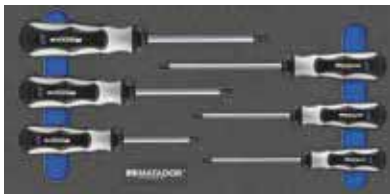


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## ■ MTS-R/V: Screwdrivers (TORX®)



- Two-colored MTS inlay with 6 pcs. screwdriver set
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



Art. Code	a mm	b mm	g	
8164 1620	390	190	500	1

Content	0620
	T10 x 80 - T15 x 80 - T20 x 90 - T25 x 90 - T30 x 110 - T40 x 120 mm

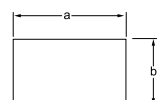


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## ■ MTS-R/V: Screwdrivers with wooden handle



- Two-colored MTS inlay with 6 pcs. screwdriver set
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



Art. Code	a mm	b mm	g	
8164 1653	390	190	800	1

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



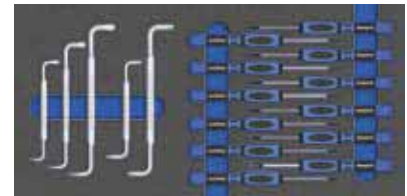
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## ■ MTS-R/V: Precision Tools Set

- 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
Content	<ul style="list-style-type: none"> <li> 0627 4 - 5,5 - 8 mm</li> <li> 0628 PH 1 - PH 2 - PH 3 - PH 4</li> <li> 0661 0,25 x 1,0 x 50 - 0,4 x 2,0 x 50 - 0,5 x 3,0 x 50 mm</li> <li> 0662 PH 00 - PH 0 - PH 1</li> <li> 0663 T5 - T6 - T7 - T8 - T10 - T15</li> </ul>		



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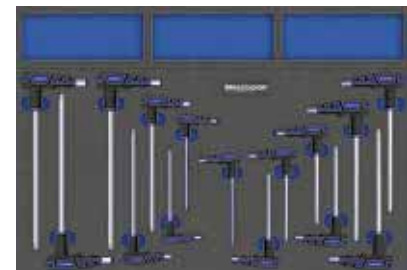
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## ■ MTS-R/V: T-Handle Wrenches

- 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
Content	<ul style="list-style-type: none"> <li> 0445 2 - 3 - 4 - 5 - 6 - 8 - 10 mm</li> <li> 0446 T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 mm</li> </ul>		



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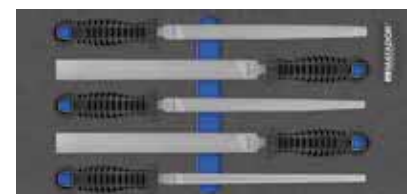
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## ■ MTS-R/V: Files

- 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
Content	<ul style="list-style-type: none"> <li> 0775 200 mm</li> </ul>		



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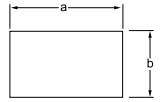
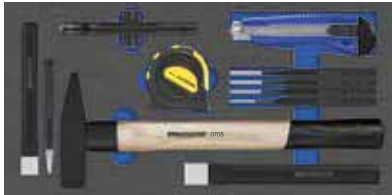
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## ■ MTS-R/V: Mechanic's Tools Basic



- 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	
<b>8164 1701</b>	390	190	1900	1
Content	<ul style="list-style-type: none"> <li><b>0705</b> 500 g</li> <li><b>0714</b> 150 mm, 200 mm</li> <li><b>0717</b> 120 x 4 x 10 mm</li> <li><b>0718</b> 3 - 4 - 5 - 6 mm</li> <li><b>0798</b> 3 m</li> <li><b>0827</b> 18 mm</li> <li><b>0885</b></li> </ul>			

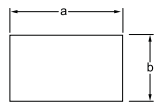


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## ■ MTS-R/V: Mechanic's Tools supplement



- Two-colored MTS inlay with 7 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	
<b>8164 1707</b>	390	190	1900	1
Content	<ul style="list-style-type: none"> <li><b>0705</b> 500 g</li> <li><b>0738</b> 115 x ø 65 mm</li> <li><b>0717</b> 120 x 4 x 10 mm</li> <li><b>0718</b> 3 - 4 - 5 - 6 mm</li> </ul>			

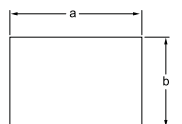
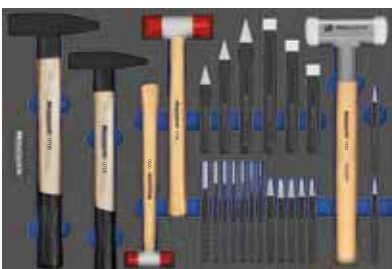


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## ■ MTS-R/V: Mechanic's Tools Basic XL



- 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	
<b>8164 1705</b>	570	390	5800	1
Content	<ul style="list-style-type: none"> <li><b>0700</b> ø 22, 35 mm</li> <li><b>0702</b> ø 40 mm</li> <li><b>0705</b> 500, 1000 g</li> <li><b>0714</b> 125 - 175 - 200 mm</li> <li><b>0715</b> 125 - 175 - 200 mm</li> <li><b>0716</b> 3 - 4 - 5 - 6 - 8 - 10 mm</li> <li><b>0717</b> 120 x 4 x 10 mm</li> <li><b>0718</b> 2 - 3 - 4 - 5 - 6 - 8 - 10 mm</li> </ul>			



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## ■ 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				
0828 180 mm				

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## ■ MTS-R/V: Truck Set

- Two-colored MTS inlay with 19 pcs. set of truck tools
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



Art. Code	a mm	b mm	g	
8164 1708	570	390	5800	1
Content				
0705 750 g				
0700 ø 40 mm				
0100 24 x 27 - 25 x 28 - 30 x 32 mm				
0185 24 - 27 - 30 - 32 mm				
0200 24 x 27 - 25 x 28 - 30 x 32 mm				
0600 1,2 - 1,6 - 2,0 mm				
0650 PH 2 - PH 3 - PH 4				

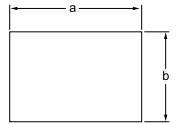
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## ■ MTS-R/V: Measuring instruments



- Two-colored MTS inlay with 11 pcs. set of measuring tools
- With torque wrench ALLROUND, accuracy  $\pm 3\%$ , 20 - 200 N·m
- Suitable for RATIO and VARIO trolleys



Art. Code	a mm	b mm	g	
<b>8164 1798</b>	570	390	3000	1
Content	<ul style="list-style-type: none"> <li><b>0760</b> 20 x 0,05 - 1,00 mm</li> <li><b>0764</b> 52 x 0,25 - 6,00 mm</li> <li><b>0798</b> 3 m</li> <li><b>0798</b> 200 x 22 x 6 mm</li> <li><b>0798</b> 300 x 15 x 0,5 - 300 x 30 x 1,0 mm</li> <li><b>0798</b> 200 x 130 mm</li> <li><b>0798</b> 150 mm</li> <li><b>0798</b> 400 mm</li> <li><b>0799</b> 250 mm</li> <li><b>6176</b> 20 - 200 N·m</li> </ul>			

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## ■ MTS-R/V: Torque tools 9 x 12

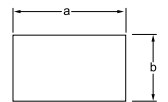


8164 6176



8164 6190

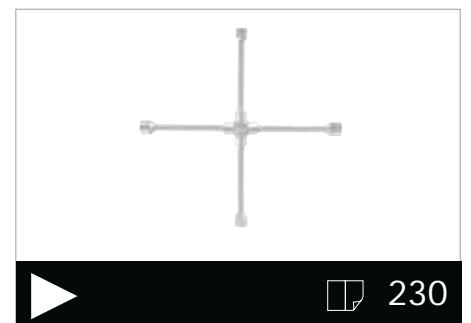
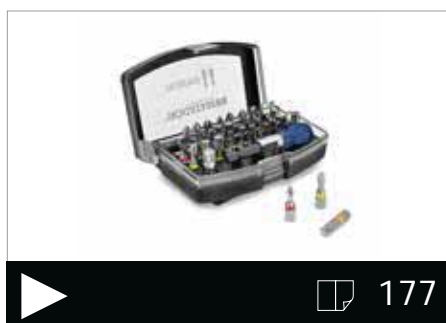
- Set with the most important insert tools with rectangular cavity in 9 x 12 mm
- With torque wrench
- With fine teeth insert reversible ratchet



Art. Code	a mm	b mm	g	
<b>8164 6176</b>	390	190	1400	1
Content	<ul style="list-style-type: none"> <li><b>6185</b> 10 - 100 N·m</li> <li><b>6186</b></li> <li><b>6190</b> 8 - 10 - 11 - 12 - 13 - 16 - 17 - 19 mm</li> <li><b>6191</b> 8 - 10 - 11 - 12 - 13 - 16 - 17 - 19 mm</li> </ul>			
<b>8164 6190</b>	390	190	1400	1
Content	<ul style="list-style-type: none"> <li><b>6186</b></li> <li><b>6190</b> 8 - 10 - 11 - 12 - 13 - 16 - 17 - 19 mm</li> <li><b>6191</b> 8 - 10 - 11 - 12 - 13 - 16 - 17 - 19 mm</li> </ul>			

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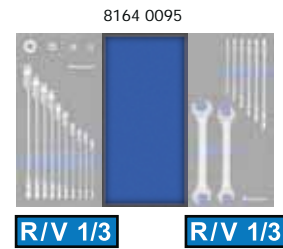


## ■ MTS-R/V: Empty Modules

- For 1/3-RATIO module in RATIO/VARIO

R V

Art. Code	a mm	b mm	g	
8164 0095	390	190	18	1

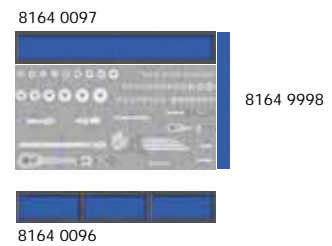


## ■ MTS-R/V: Empty Modules

- For 3/3-RATIO module in RATIO/VARIO

R V

Art. Code	a mm	b mm	g	
8164 0096	570	50	18	1
8164 0097	570	50	18	1
8164 9998	30	390	12	1



## ■ MTS Self Cutting Module

- Two-colored MTS inlay for cutting of individual tool module

Q R V

Art. Code	a mm	b mm	g	
8164 9999	570	390	120	1



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Do you need assistance with your configuration?

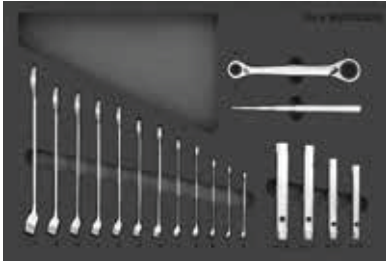
Please contact us - we will be pleased to assist you!

Phone +49 (0) 2191 - 9743 - 0  
Fax +49 (0) 2191 - 9743 - 44

E-Mail [info@matador.de](mailto:info@matador.de)  
Internet [www.matador.de](http://www.matador.de)



■ Tool Assortment smartyCAR



8164 5185



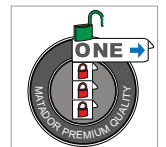
8164 8145



8164 2615



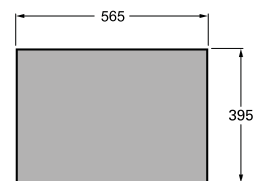
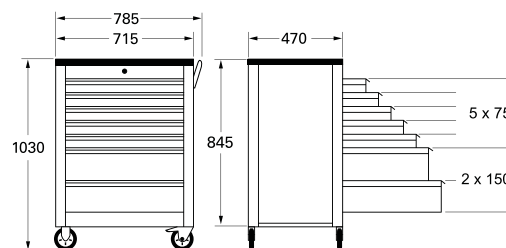
Including removable smartyBOX S1.



The tool assortment smartyCAR is our special model with 150 tools „Best of MATADOR“. High quality tools for all kind of simple repair jobs and the entry level into the tool world of MATADOR.

It contains:

- Combination- and 4 in 1 ring ratchet spanner 6 - 22 mm
- Tubular box spanners with tommy bar
- 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
- Pliers set with **3KsoftGrip** handles
- Screwdriver set with 2-component handles for slotted and PH screws
- Mechanic's set with the most important striking tools
- Cutting and measuring tools



With 150 selected tools.



Art. Code

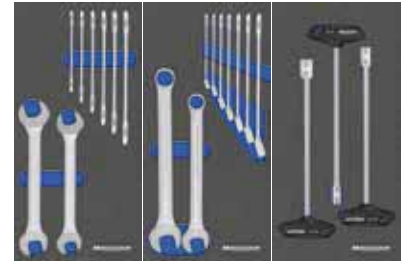
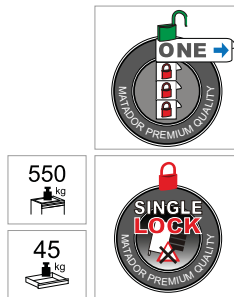
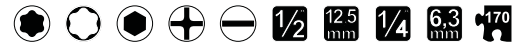
8163 9150 RATIO (7 drawers) with tool assortment smartyCAR, 150 pcs



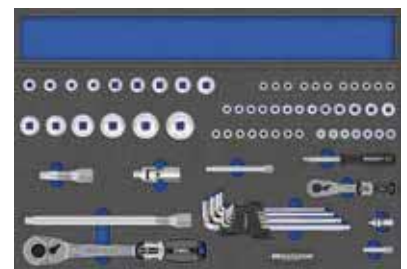
kg

-- 1

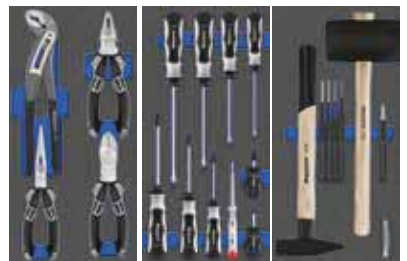
■ Tool Assortment UNIVERSAL



8164 1100      8164 1185      8164 4671



8164 1411



8164 1500      8164 1615      8164 1707



32 pcs torsion bitset included.



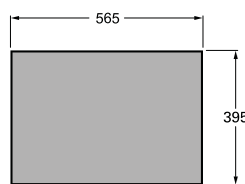
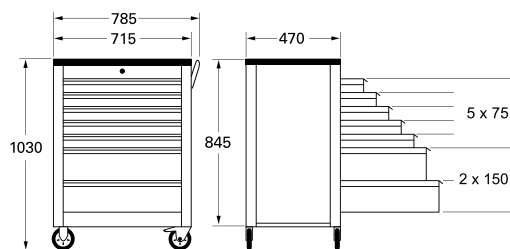
25 pcs twist drill assortment HSS-R included.



The tool assortment **UNIVERSAL** is the basic assortment with the most important tools for general repair jobs. High quality tools for home users and DIYers in the tool world of MATADOR.

It contains:

- Combination spanners and double open ended 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, hex and TORX® screws E4 - E11, T8 - T40
- Pliers set with **3KsoftGrip** handles
- Screwdriver set with 2-component handles for slotted and PH screws
- Mechanic's set with the most important striking tools
- 31-pc bitset and 25-pc drill assortment included



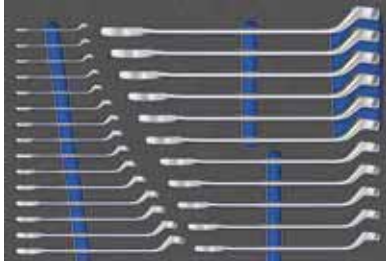
**MTS** MATADOR TOOL SYSTEM.

Art. Code	Icons	Description	kg	Quantity
8178 9550	170, MM, 6	Tool assortment UNIVERSAL, 170 pcs	--	1
8163 9550	170, MM, 6	RATIO (7 drawers) with tool assortment UNIVERSAL, 170 pcs	--	1

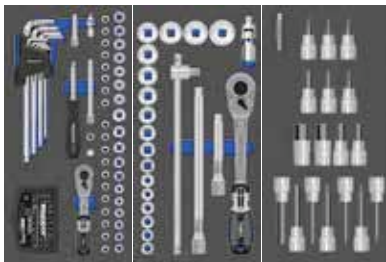
**All you need.  
The expert's choice.**



■ Tool Assortment INDUSTRIAL



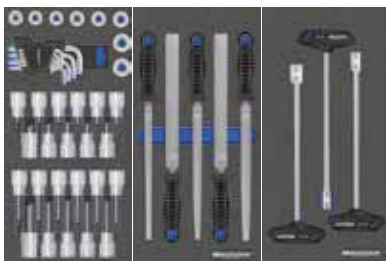
8164 3190



8164 1201

8164 1401

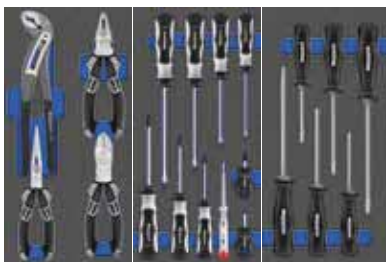
8164 4078



8164 4092

8164 1775

8164 4671



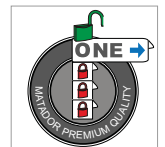
8164 1500

8164 1615

8164 1653



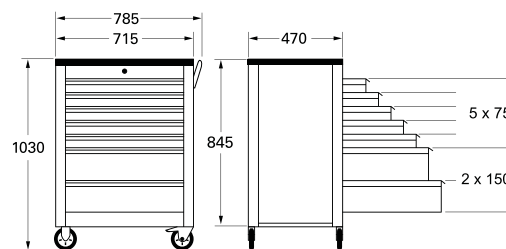
8164 1705



The tool assortment **INDUSTRIAL** was designed by experts especially for industrial maintenance and assembly jobs. All tools for the experienced mechanic are included.

It contains:

- Combination spanners, deep offset 6 - 32 mm
- Socket set with 6.3 mm (1/4") and 12.5 mm (1/2") drive, sockets 4 - 32 mm
- Comprehensive assortment of screwdriver sockets for slotted, PH, hex and TORX<sup>®</sup> screws E4 - E11, T8 - T40
- Pliers set with **3KsoftGrip** handles
- Screwdriver set with 2-component handles for slotted, PH and TORX<sup>®</sup> screws and additional screwdriver set with striking cap
- Large mechanic's set with numerous striking tools
- and many more tools



Art. Code

8178 9570 Tool assortment INDUSTRIAL, 242 pcs

8163 9570 RATIO (7 drawers) with tool assortment INDUSTRIAL, 242 pcs

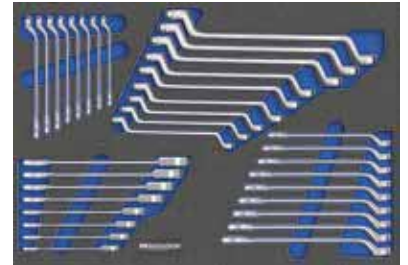
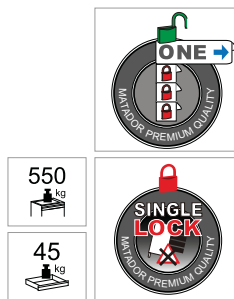


kg

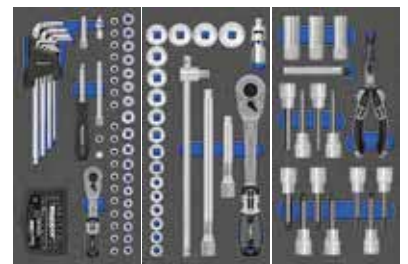
-- 1

-- 1

■ Tool Assortment **AUTOMOTIVE**



8164 1195



8164 1201

8164 1401

8164 1481



8164 1500

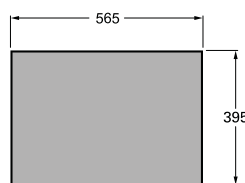
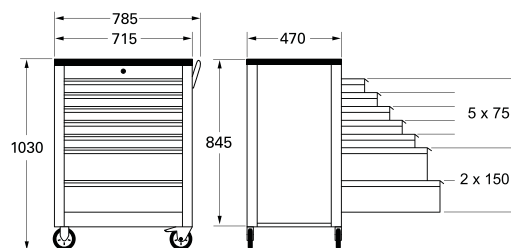
8164 1615

8164 1701

The tool assortment **AUTOMOTIVE** is the basic assortment for any kind of car repair. **3 fully equipped drawers with high quality tools**, e.g. ratchet spanners and the most important tools for changing spark plugs including a high quality inspection LED lamp.

It contains:

- Combination spanners and double ended ring spanners 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
- Screwdriver sockets for slotted, PH, hex, RIBE and TORX® screws
- Pliers set with **3KsoftGrip** handles
- Screwdriver set with 2-component handles for slotted and PH screws
- and many more tools



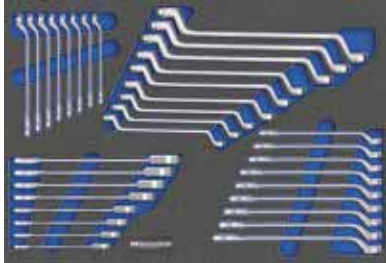
**MTS** MATADOR  
TOOL SYSTEM.

Art. Code	kg	
8163 9560	--	1

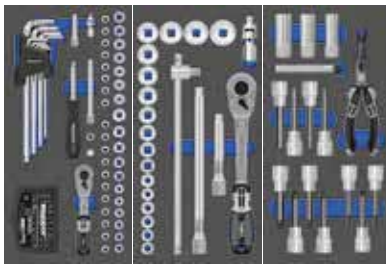
Selected tool assortments for automotive repair.



■ Tool Assortment TRUCK



8164 1195



8164 1201

8164 1401

8164 1481



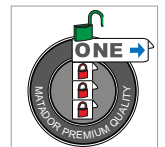
8164 1500

8164 1615

8164 1701



8164 1708

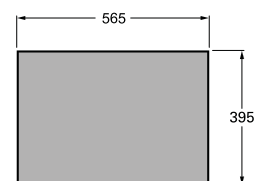
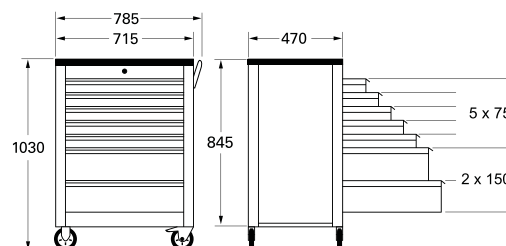


The tool assortment **TRUCK** contains the **tool assortment AUTOMOTIVE** and additionally a **19-pc module with basic tools for the repair of commercial vehicles**, e.g. spanners up to 32 mm and classical wooden screwdrivers with striking cap.

It contains:

- Combination spanners and double ended ring spanners 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
- Screwdriver sockets for slotted, PH, hex, RIBE and TORX® screws
- Pliers set with **3KsoftGrip** handles
- Screwdriver set with 2-component handles for slotted and PH screws
- and many more tools

**MTS** MATADOR TOOL SYSTEM.



Selected tool assortments for automotive repair.



Art. Code

8163 9561



RATIO (7 drawers) with tool assortment TRUCK, 201 pcs

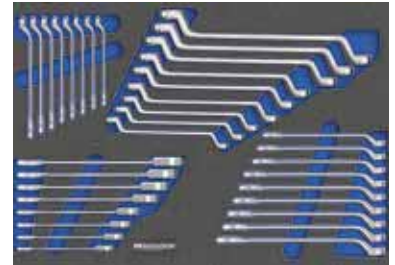
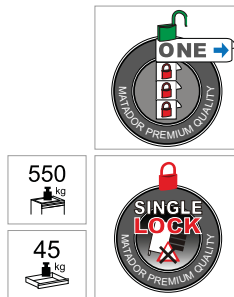


kg

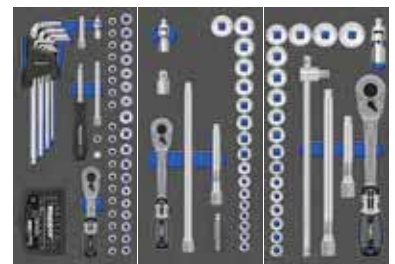
--

1

■ Tool Assortment **AUTOMOTIVE PRO**



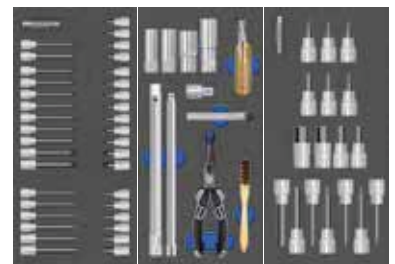
8164 1195



8164 1201

8164 1301

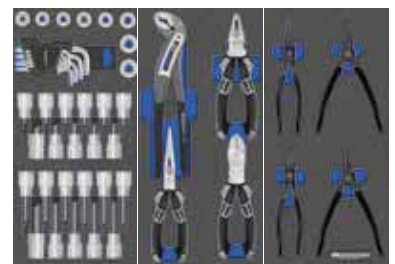
8164 1401



8164 3078

8164 3081

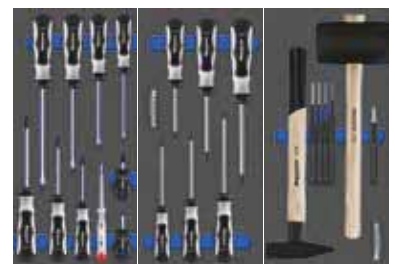
8164 4078



8164 4092

8164 1500

8164 1504



8164 1615

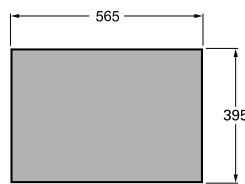
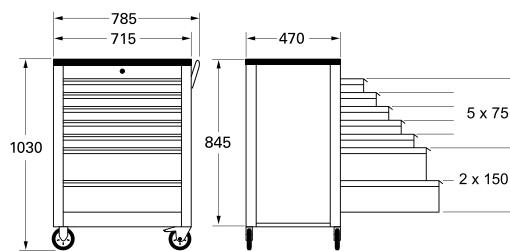
8164 1620

8164 1707

The tool assortment **AUTOMOTIVE PRO** is a **comprehensive selection of tools for your workshop** (as recommended by **Ford** and **Jaguar Land Rover**) and has been compiled by many experts.

It contains:

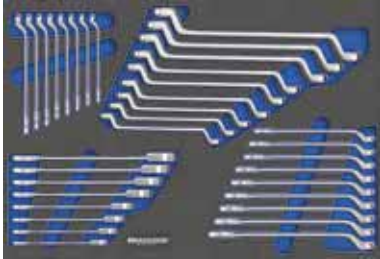
- Socket set with 6.3 mm (1/4"), 10 mm (3/8") and 12.5 mm (1/2") drive, all sockets from 4 - 32 mm
- Comprehensive assortment of screwdriver sockets for slotted, PH, hex and TORX® screws E4 - E24, T8 - T55
- Tool set for spark plugs
- Plier set with **3KsoftGrip** handles
- Circlip plier set
- Comprehensive screwdriver set with 2-component handles for slotted, PH and TORX® screws
- Mechanic's set with the most important striking tools
- and many more tools



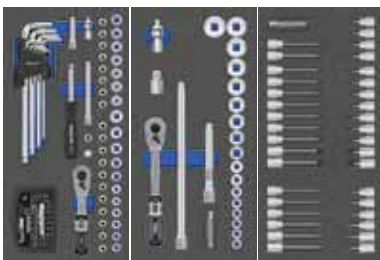
Art. Code	Weight (kg)	Quantity
8178 9580	279	1
8163 9580	279	1



■ Tool Assortment BIKE



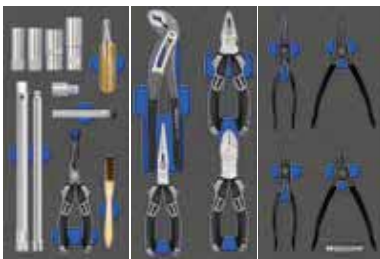
8164 1195



8164 1201

8164 1301

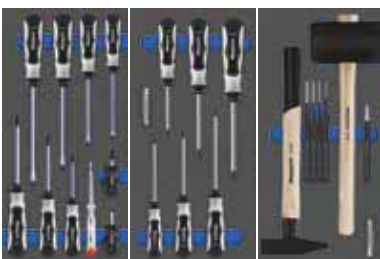
8164 3078



8164 3081

8164 1500

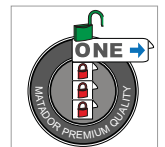
8164 1504



8164 1615

8164 1620

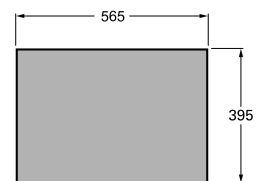
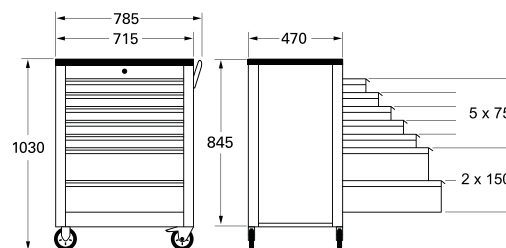
8164 1707



The tool assortment **BIKE** is the basic assortment for any kind of bike repair. 4 fully equipped drawers with high quality tools.

It contains:

- Combination spanners and double ended ring spanners 6 - 23 mm
- Combination ratchet spanners 8 - 19 mm
- Socket set with 6.3 mm (1/4") and 10 mm (3/8") drive, sockets 4 - 22 mm
- Screwdriver sockets for slotted, PH, hex, XZN and TORX<sup>®</sup> screws
- 32-piece torsion bit box, also for on the road - extremely long service life, absorbs the force peaks
- Pliers set with **3KsoftGrip** handles
- Screwdriver set with 2-component handles for slotted and PH screws
- Mechanic set with the most important impact tools
- and many more tools



Art. Code

8163 9220 RATIO (7 drawers) with tool assortment BIKE, 219 pcs



kg

-- 1

Only the best for your bike.





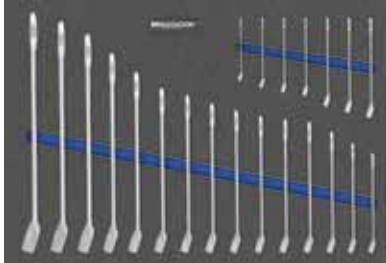
CUSTOM  
Moto  
Motorcycles

BL 3363 AL  
09.14

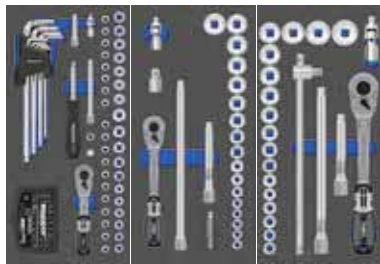
Kawasaki



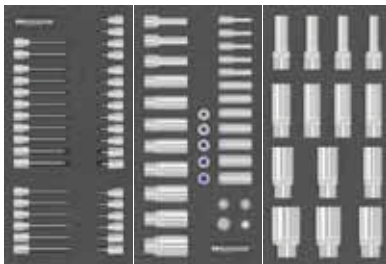
■ Tool Assortment FORD



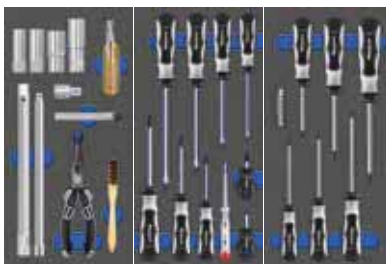
8164 3185



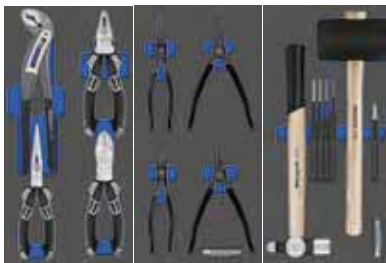
8164 1201    8164 1301    8164 1401



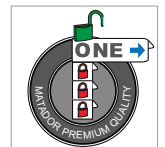
8164 3078    8164 3082    8164 4081



8164 3081    8164 1615    8164 1620

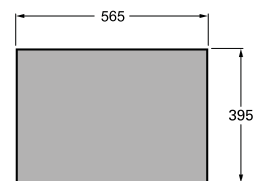
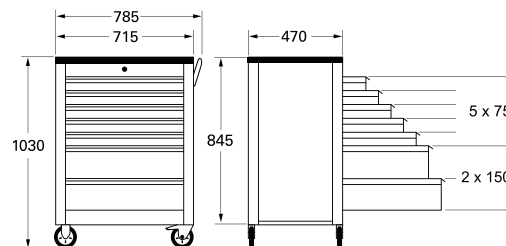


8164 1500    8164 1504    8164 1706



Tool trolley **RATIO** with 7 drawers, including **275 high quality tools** in 5 drawers with **2-coloured MTS modules** („See what is missing“), e.g. with:

- Combination Spanners angled DIN 3113 A 6 - 34 mm
- Socket set with 6,3 mm (1/4"), 10 mm (3/8") and 12,5 mm (1/2") drive, sockets 4 - 32 mm
- **Premium Z 90** ratchets with 90 teeth for only 4° angle, 50% more torque than DIN standards
- Deep Sockets with 10 mm (3/8") and 12,5 mm (1/2") drive, 4 - 32 mm
- Screwdriver Sockets for slotted, PH and hex screws (4 - 10 mm), TORX® screws E4 - E14 und T8 - T55 (from T15 each in short and long type)
- Spark Plug Tool Set
- 16 pc. screwdrivers Set, also with TORX®
- 4 pc. set of pliers with 3 component pliers
- 4 pc. set of Circlip Pliers
- Mechanic's Tools Kit



Art. Code

8163 9148 RATIO (7 drawers) with tool assortment FORD, 238 pcs

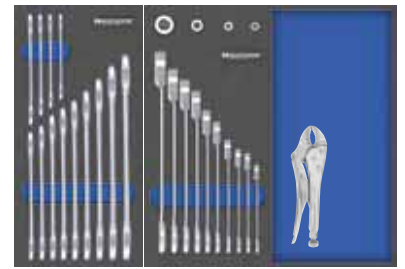
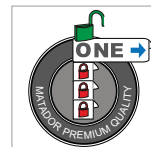


kg

-- 1



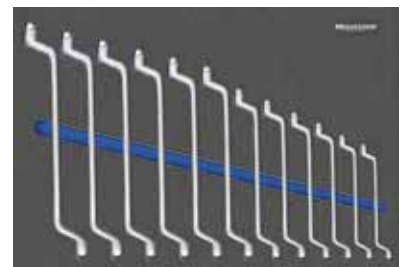
■ Tool Assortment MERCEDES-BENZ



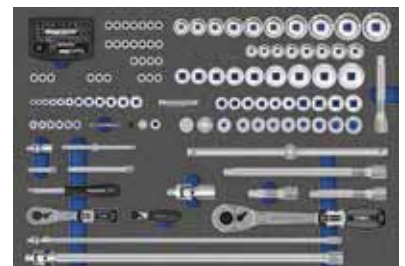
8164 3100

8164 1183

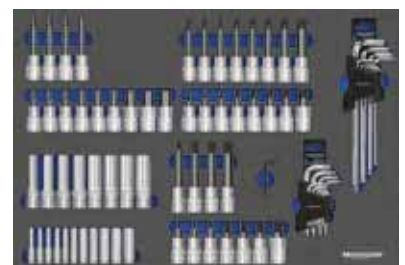
8164 0095



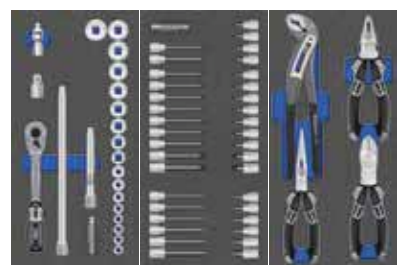
8164 1200



8164 1214



8164 1492



8164 1301

8164 3078

8164 1500

Comprehensive tool kit with **413 premium tools** by MATADOR especially for Mercedes-Benz car workshops. **The best or nothing...**

Based on the **MB standard tool kit** and supplemented by all important automotive tools, this new universal kit covers all central maintenance work.

Including:

- **Oil filter socket 36 mm MB**  
(similar W 103 589 02 09 00)
- **Shock absorber tools MB 24 pcs in a plastic case**  
(similar W 001 589 03 16 00)



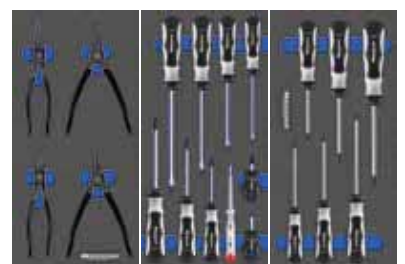
Art. Code	413	MM	6		kg	
8178 9590	413	MM	6	Tool assortment MERCEDES-BENZ, 413 pcs	--	1
8163 9590	413	MM	6	RATIO (8 drawers) with tool assortment MERCEDES-BENZ, 413 pcs	--	1



8164 1800



8164 1710



8164 1504

8164 1615

8164 1620

**MTS unlimited edition.**  
350 high quality tools. 8 modules. That's it.



**MTS**

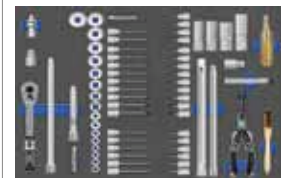
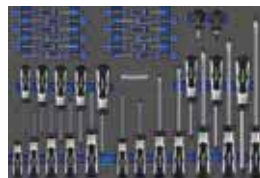
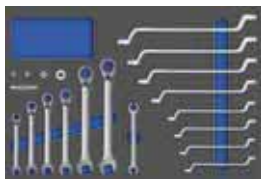
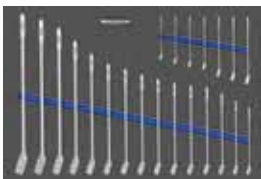
**unlimited edition**

**Focusing on the essentials.**





## All inclusive.



MTS unlimited edition: 8 modules with 350 high quality tools.

Additional modules for automotive repair.

### Which tools do you need?

It depends... Your tasks change.

Do you really want to spend your time looking for the right tools for your latest challenge? Do your new tools fit into the tool modules and tool storage system you already use? Probably not.

When you check the market you will find almost uncountable offers of fully equipped tool trolleys - but **what do you really need?**

Save your time and keep an overview because we have a better idea:

We set up a **comprehensive database** including all equipped tool trolleys that we have ever supplied to **BMW, Ford, Jaguar, Land Rover, Mercedes-Benz, Volkswagen** and other customers, and we broke them down to the single tool.

Additionally, we included important **OEM specifications - like Volkswagen VAS 275 001** - and took the tool trolley range of other tool manufacturers into consideration. The unsurprising result:

Around **88%** of the tools listed can be found in any specification because these tools are needed in every workshop.

We added another **10%** of tools that make sense and give you enough scope

for future tasks. So you do not need to look for further additions again.

What came out is our **"MTS unlimited edition" with 350 tools that cover 98% of all application fields.** It's a safe bet.

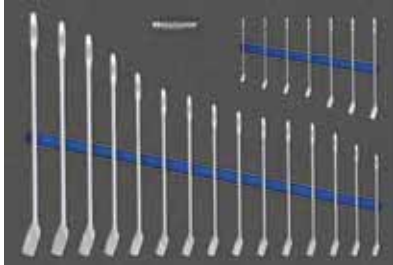
For the remaining 2% we saved you lots of time.

Make something out of it!

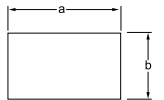
For automotive repairs we added two modules with a comprehensive 10 (3/8) socket set and another module for car body work.



## ■ MTS-R/V: Combination Spanner Set



- Two-colored MTS inlay with 22 pcs set of combination spanners
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO

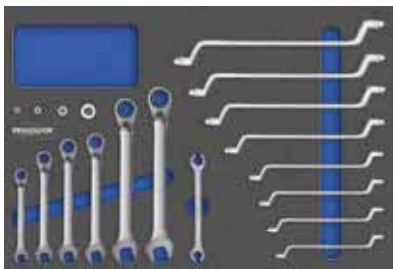


**MTS**  
unlimited edition

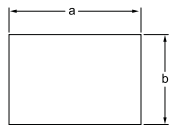
3/3

Art. Code	a mm	b mm	g	
8164 3185	570	390	2200	1
Content	0185 6 - 22, 24, 27, 30, 32, 34 mm			

## ■ MTS-R/V: Combination Ratchet- and Double Ended Ring Spanner Set



- Two-colored MTS inlay with 19 pcs set of combination ratchet spanners and double ended ring spanners with ratchet adaptors
- With open flare nut ring spanners
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



**MTS**  
unlimited edition

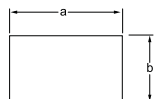
3/3

Art. Code	a mm	b mm	g	
8164 3189	570	390	2080	1
Content	0189 8, 10, 12, 13, 17, 19 mm + Knarrenadapter			
	0200 6 x 7 - 20 x 22 mm			
	0250 Bremseinstellschlüssel 10 x 11 mm			

## ■ MTS-R/V: Mechanic's Tool Set



- Two-colored MTS inlay with 19 pcs set of mechanic tools
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



**MTS**  
unlimited edition

3/3

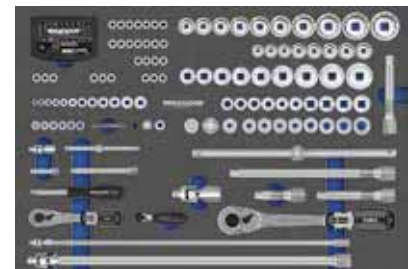
Art. Code	a mm	b mm	g	
8164 1710	570	390	3200	1
Content	0705 400 g			
	0702 ∅40 mm			
	0714 150 mm, 200 mm			
	0716 4 mm, 6 mm			
	0717 120 x 4 x 10 mm			
	0718 3 - 4 - 5 - 6 - 8 mm			
	0775 200 mm			
	0798 5 m			
	0828 170 mm			
	0843 210 mm			

## ■ MTS-R/V: Socket Set

- Two-colored MTS inlay with 145 pcs set of sockets
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



Art. Code	a mm	b mm	g	
8164 1214	570	390	8143	1
Content				
2061				
2062				
2064 115 mm				
2065 50, 100 mm				
2068				
2073 150 mm				
2074 500 mm				
2075 4 - 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 - PH3				
2077 PZ 1 - PZ 2 - PZ3				
2078 3 - 4 - 5 - 6 - 8 - 10 x 32 mm				
2083 6,3 (1/4) - 10 (3/8)				
2084 6,3 (1/4) - 6,3 (1/4) Bit				
2085 6,3(1/4) X 6,3(1/4)				
2090 E4 - E5 - E6 - E7 - E8 - E10				
2092 T6 - T7 - T8 - T9 - T10 - T15 - T20 - T25 - T27 - T30 - T40 x 32 mm				
4061				
4064 300 mm				
4065 75, 125, 250 mm				
4066 125 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 - 34 mm				
4082 12,5(1/2) - 10(3/8)				
4083 12,5(1/2) - 20(3/4)				
4084 12,5(1/2) - 6,3(1/4) Bit				
4090 E10 - E12 - E14 - E16 - E18 - E20 - E22 - E24				
7052 Bitbox 32-tlg.				



**MTS**  
unlimited edition

3/3

## ■ MTS-R/V: Screwdriver Sockets / Hex Key Set

- Two-colored MTS inlay with 78 pcs set of screwdriver sockets and hex keys
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



Art. Code	a mm	b mm	g	
8164 1492	570	390	6274	1
Content				
0442 1,5 - 10 mm				
0443 T9 - T50				
2081 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm				
4078 5 - 6 - 7 - 8 - 10 - 12 - 14 - 17 - 19 x 62 mm, 6 - 7 - 8 - 10 x 100 mm				
4079 M5 - M6 - M8 - M10 - M12 - M14 - M16 x 62 mm, M8 - M10 - M12 - M14 x 100 mm				
4081 10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 mm				
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 - 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				



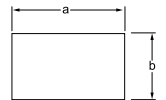
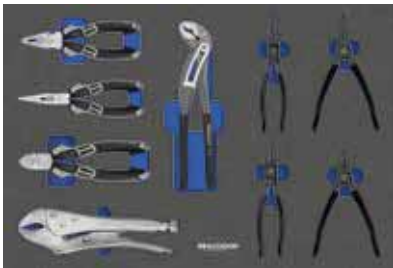
**MTS**  
unlimited edition

3/3

■ **MTS-R/V: Plier Set**



- Two-colored MTS inlay with 9 pcs set of pliers
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



Art. Code	a mm	b mm	g	
<b>8164 1510</b>	570	390	2130	1
Content	<b>0500</b> 165 mm (6.1/2")			
	<b>0530</b> 180 mm (7")			
	<b>0565</b> 240 mm			
	<b>0585</b> 170 mm (6.3/4")			
	<b>0578</b> A2			
	<b>0580</b> A21			
	<b>0582</b> J2			
	<b>0584</b> J21			
	<b>0588</b> 250 mm (10")			

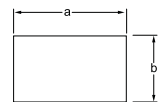
**MTS**  
unlimited edition

3/3

■ **MTS-R/V: Automotive Tool Set**



- Two-colored MTS inlay with 24 pcs set of automotive tools
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO

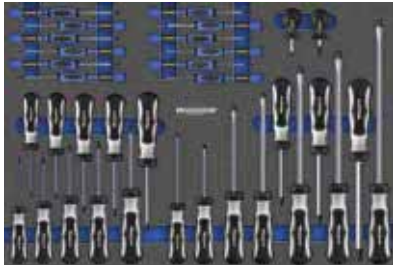


Art. Code	a mm	b mm	g	
<b>8164 1800</b>	570	390	5424	1
Content	<b>0568</b> 205 mm			
	<b>0671</b> 8, 10, 13 x 230 mm			
	<b>0754</b> 500 mm			
	<b>0760</b> 20 x 0,05 - 1,00 mm			
	<b>0784</b> 1000 g			
	<b>0840</b> 250 mm			
	<b>0842</b> 160 mm			
	<b>0852</b> 225 mm			
	<b>4081</b> 16 - 18 - 20,8 mm			
	<b>5064</b> 20 (3/4") 500 mm			
	<b>5082</b> 20 (3/4") - 12,5 (1/2")			
	<b>7575</b> 32, 36 mm			
	<b>7481</b> 17, 19, 21 mm			
	<b>7599</b>			
	<b>0795</b> 285 - 870 mm			

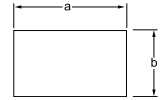
**MTS**  
unlimited edition

3/3

## ■ MTS-R/V: Screwdriver Set



- Two-colored MTS inlay with 34 pcs set of screwdrivers
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO

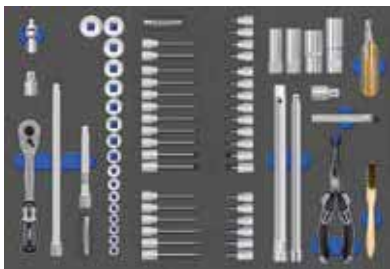


Art. Code		↔	↑↓	⚖	📦
8164 1600	34	a mm	b mm	g	1
Content	0615/0660 3 x 100 - 4 x 75 - 5,5 x 125 - 6,5 x 150 - 8 x 175 - 10 x 200 - 12 x 250mm 0640 6,5 x 25 mm 0620 T6 x 75 - T7 x 75 - T8 x 75 - T9 x 70 - T10 x 80 - T15 x 80 - T20 x 90 - T25 x 100 - T27 x 115 - T30 x 115 mm 0655 PH 1 - PH 2 - PH 3 0641 PH 2 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 - T1				

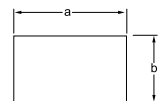
**MTS**  
unlimited edition

3/3

## ■ MTS-R/V: Additional modules



- Two-colored MTS inlay with 69 pcs set of additional automotive tools
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



Art. Code		↔	↑↓	⚖	📦
8164 1310	69	a mm	b mm	g	1
Content	8164 1301				
	8164 3078				
	8164 3081				

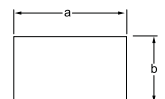
**MTS**  
unlimited edition

3/3

## ■ MTS-R/V: Additional modules



- Two-colored MTS inlay with 7 pcs set of additional automotive tools
- Suitable for RATIO and VARIO and in combination with empty modules also QUADRO



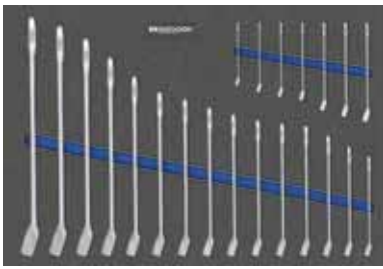
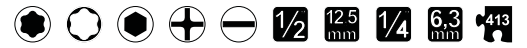
Art. Code		↔	↑↓	⚖	📦
8164 1745	7	a mm	b mm	g	1
Content	0705 1000 g				
	0738 115 x 65 mm				
	0747 L, R				
	0788 150 mm				
	0846 240 mm				
	0587 195 mm				

**MTS**  
unlimited edition

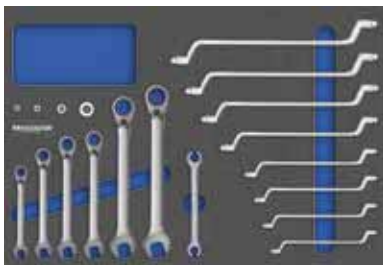
3/3



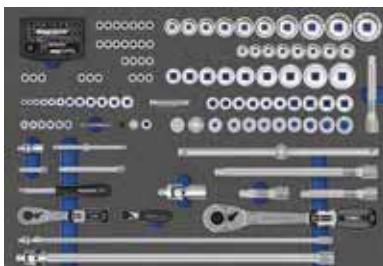
■ Tool Assortment UNLIMITED EDITION



8164 3185



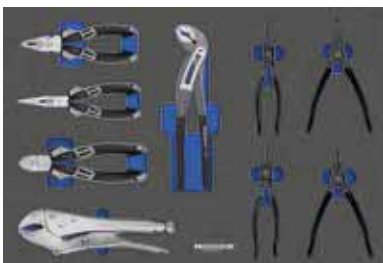
8164 3189



8164 1214



8164 1492



8164 1510



8164 1600



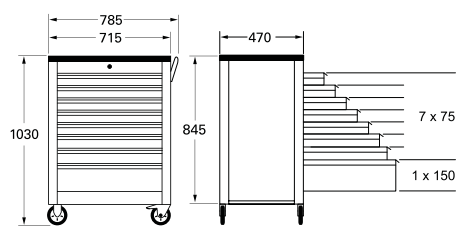
8164 1800



8164 1710



**MTS**  
**unlimited edition**



Art. Code



kg

8178 9350	350	MM	6	Tool assortment MTS unlimited edition, 350 pcs	--	1
8163 9350	350	MM	6	RATIO 8D with tool assortment MTS unlimited edition, 350 pcs	--	1





# Tool Assortments

Be a MATADOR.



## Content Tool Assortments.

Page Article group

### smartyBOX

302 smartyBOX empty

304 smartyBOX S0 Compact

305 smartyBOX S0 Basic

306 smartyBOX S1

307 smartyBOX S2

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308 smartyBOX S4

309 smartyBOX S5

310 smartyBOX L1

311 smartyBOX L2

### Tool Assortments in Cases

312 Tool case Black Box

314 Tool case Soft

315 Tool case ABS

316 Tool case CADDY

317 Tool case CADDY with Tool  
Assortment UNIVERSAL XL

318 Tool case CADDY with Tool  
Assortment Allround

320 Tool case STEEL 3

321 Tool case STEEL 5

321 Tool case STEEL 5 with Tool  
Assortment UNIVERSAL



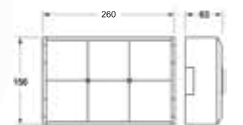
**Smart toolboxes.**  
Intelligent solutions for mobile use.



Our smallest.  
Compact in pocket size.



■ L-BOXX -Mini, empty



Art. Code	g	
8145 0020	590	1



Stackable and can be clicked onto each other for easy transportation.

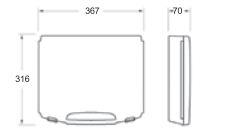






The new smartyBOX.  
The world's smallest workshop.

■ i-BOXX®, empty



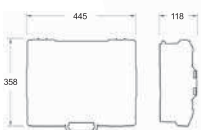
Art. Code	g	
8145 0030	880	1

Perfect order  
at every location.



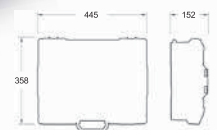
Space for small parts.

■ L-BOXX®118, empty



Art. Code	g	
8145 0035	1750	1

■ L-BOXX®152, empty

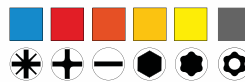
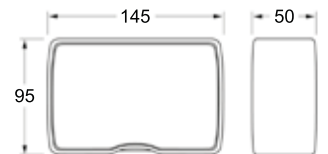


Art. Code	g	
8145 0040	1870	1



# Die smartyBOX S0 compact. Our smallest.

Compact in pocket size.



**MFS** MATADOR  
FOAM SYSTEM.

## ■ smartyBOX S0 compact



- Handy size of just 145 x 95 mm fits in any drawer, even in your desk or under the motor-cycle seat
- Including the new MATADOR Z90 1/4" reversible ratchet with 90 teeth for the smallest gaps
- 30 standard bits of high-alloy S2 material (25 mm)
- 6 extra-long screwdriver blades (75 mm)
- With color guide system for faster identification
- Sockets with double smart drive profile
- Everything is fit securely into MFS soft foam inlays and survives even the hardest fall

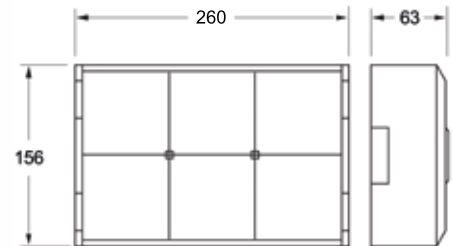


Art. Code	a mm	h mm	b mm	g	
2155 0001	145	50	95	850	1
Content	<ul style="list-style-type: none"> <li>2061 Reversible Ratchet</li> <li>2065 Extension 50 mm</li> <li>2075 6 - 7 - 8 - 9 - 10 - 11 - 13 mm</li> <li>2084 Bit-Adapter F</li> <li>7040 Drill Adapter for Bits</li> <li>7026 Bits 3 - 3.5 - 4.5 - 5.5 - 6.5 x 25 mm Screwdriver-Bits long type: 4 - 6 x 75 mm</li> <li>7027 Bits PH 0 - PH 1 - PH 2 - PH2 - PH 3 x 25 mm Screwdriver-Bits long type: PH 1 - PH 2 x 75 mm</li> <li>7027 Bits PZ 0 - PZ 1 - PZ 2 - PZ2 - PZ 3 x 25 mm</li> <li>7028 Bits 3 - 4 - 5 - 6 x 25 mm</li> <li>7033 Bits T6 - T7 - T8 - T9 - T10 - T15 - T25 - T27 - T30 T40 x 25 mm Screwdriver-Bits long type: T25 - T30 x 75 mm</li> </ul>				



# The smartyBOX S0 Basic.

The low budget universal box.



Compact in size:  
W 260 x D 156 x H 63 mm.



Stackable and can be clicked onto each other for easy transportation.

## ■ smartyBOX S0 Basic



- Including the new MATADOR Z90 1/4" reversible ratchet with 90 teeth for the smallest gaps
- Comes with everything needed for screw tasks from 4 - 14 mm
- With innovative spinner handle that can be used as a multiscrewdriver and extends a total length of 370 mm
- With color guide system for faster identification
- Sockets with double smart drive profile
- Everything is fit securely into MFS soft foam inlays and survives even the hardest fall

Art. Code	b mm	h mm	t mm	g
8145 2110	260	63	156	1100

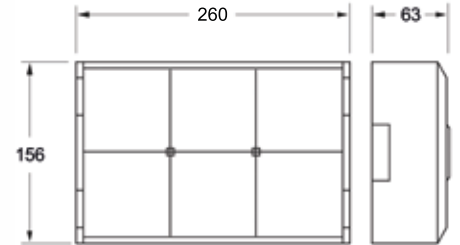
		<b>2061</b>	Reversible Ratchet	
		<b>2065</b>	Extensions + 50 - 100 mm	
		<b>2068</b>	Universal Joint	
		<b>2073</b>	Multi Component Spinner Handle	
		<b>2075</b>	4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm	
		<b>2084</b>	Bit-Adapter F	
		<b>2084</b>	Bit-Adapter M	
		<b>7040</b>	Drill Adapter for Bits	
		<b>7026</b>	Bits 3 - 3.5 - 4.5 - 5.5 - 6.5 x 25 mm	
		<b>7027</b>	Bits PH 0 - PH 1 - PH 2 - PH2 - PH 3 x 25 mm	
		<b>7027</b>	Bits PZ 0 - PZ 1 - PZ 2 - PZ2 - PZ 3 x 25 mm	
		<b>7028</b>	Bits 3 - 4 - 5 - 6 x 25 mm	
		<b>7033</b>	Bits T6 - T7 - T8 - T9 - T10 - T15 - T20 - T25 - T27 - T30 - T40 x 25 mm	
		<b>8191</b>	Lanyard with snap hook for scuring the reversible ratchet	



# The smartyBOX S1.

The world's smallest workshop.

**S1**



Compact in size:  
W 260 x D 156 x H 63 mm.



Stackable and can be clicked onto each other for easy transportation.

## ■ smartyBOX S1

1/4 61

- Including the new MATADOR Z90 1/4" reversible ratchet with 90 teeth for the smallest gaps
- Comes with everything needed for screw tasks from 4 - 14 mm
- With innovative spinner handle that can be used as a multiscrewdriver and extends a total length of 420 mm
- Including combination pliers with integrated ring spanner for countering
- With color guide system for faster identification
- Sockets with double smart drive profile
- Everything is fit securely into MFS soft foam inlays and survives even the hardest fall



Art. Code	b mm	h mm	t mm	g	
8145 2115	260	63	156	1300	1
<ul style="list-style-type: none"> <li>0500 3C Combination Pliers 160 mm</li> <li>0500 Retaining Clip for Combination Pliers</li> <li>2061 Reversible Ratchet</li> <li>2065 Extensions + 50 - 100 mm</li> <li>2068 Universal Joint</li> <li>2073 Multi Component Spinner Handle</li> <li>2075 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm</li> <li>2084 Bit-Adapter F</li> <li>2084 Bit-Adapter M</li> <li>7040 Drill Adapter for Bits</li> </ul>					
<ul style="list-style-type: none"> <li>7026 Bits 3 - 3,5 - 4,5 - 5 - 5,5 - 6,5 x 25 mm</li> <li>Screwdriver-Bits long type: 4 - 6 x 75 mm</li> <li>7027 Bits PH 0 - PH 1 - PH 2 - PH2 - PH 3 x 25 mm</li> <li>Screwdriver-Bits long type: PH 1 - PH 2 x 75 mm</li> <li>7027 Bits PZ 0 - PZ 1 - PZ 2 - PZ2 - PZ 3 x 25 mm</li> <li>7028 Bits 3 - 4 - 5 - 6 x 25 mm</li> <li>7033 Bits T6 - T7 - T8 - T9 - T10 - T15 - T20 - T25 - T27 - T30 - T40 x 25 mm</li> <li>Screwdriver-Bits long type: T25 - T30 x 75 mm</li> </ul>					
<ul style="list-style-type: none"> <li>8191 Lanyard with snap hook for scuring the reversible ratchet</li> </ul>					

# The smartyBOX S2 and S3.

The perfect supplement.



## ■ smartyBOX S2



- including the new MATADOR Z90 3/8" reversible ratchet
- Covers 90 % of all screw tasks with socket sizes from 6 - 22 mm
- 8° swivelling extension bars included for screw connections that are difficult to reach
- With adjustable wrench, perfect for countering or screw tasks that require an open ended spanner (e.g. when bolts are in the way)
- Sockets with double smart drive profile
- Everything is fit securely into MFS soft foam inlays and survives even the hardest fall

Art. Code	b mm	h mm	t mm	g	
8145 3115	260	63	156	1300	1

- Content
- 0590** Adjustable Wrench 1 - 20 mm (8")
  - 10 3/8 3061** Reversible Ratchet
  - 10 3/8 3065** Swivelling Extension Bars 75 - 125 mm
  - 10 3/8 3068** Universal Joint
  - 10 3/8 3075** 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 mm
  - 10 3/8 3084** Bit-Adapter F
  - 10 3/8 3085** Drill Adapter for Sockets
  - 8191** Lanyard with snap hook for securing the reversible ratchet



## ■ smartyBOX S3



- Innovative supplement with combination ratchet spanners and ratchet adapters
- Combination ratchet spanners with lever for quick change of direction
- With slightly angled ring side
- Includes the most important spanner sizes from 7 - 19 mm and 4 additional ratchet adapters for using the ratchet spanners as a fully usable ratchet for sockets
- Everything is fit securely into MFS soft foam inlays and survives even the hardest fall

Art. Code	b mm	h mm	t mm	g	
8145 0189	260	63	156	1300	1

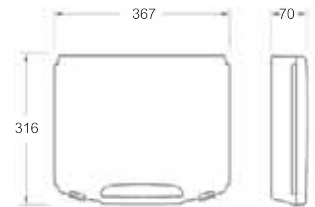
- Content
- 0189** 7 - 8 - 10 - 12 - 13 - 15 - 17 - 19 mm
  - 0186** Bitadapter for Combination Ratchet Spanners SW 10
  - 0186** Ratchet Adapter for Combination Ratchet Spanners SW 10
  - 0186** Ratchet Adapter for Combination Ratchet Spanners SW 13
  - 0186** Ratchet Adapter for Combination Ratchet Spanners SW 19



# The smartyBOX S4.

The next generation's socket sets.

**S4**



Size:  
B 367 x T 316 x H 70 mm.



Sockets with double Smart Drive profile and super chrome coating.



Quality ratchet with 90 teeth and only 4° swivel angle for up to 750 N · m.

## ■ smartyBOX S4

1/2 29

- The MATADOR i-Boxx 72 protects the socket set from splash water and ensures maximum order
- It can be integrated into the MATADOR system
- The sturdy stacking box has a load capacity of up to 5 kg and gives a perfect overview thanks to the transparent closure lid and inscribable handle
- Everything is fit securely into MFS soft foam inlays and survives even the hardest fall



Art. Code	b mm	h mm	t mm	g	
8145 4114	367	70	316	4470	1

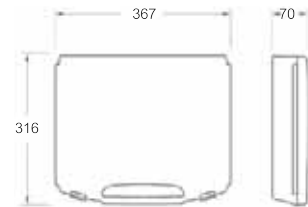
- Content
- 4061 Reversible Ratchet
  - 4064 Sliding Handle
  - 4065 Extension 125 mm
  - 4068 Universal Joint
  - 4075 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16  
17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 26  
27 - 28 - 30 - 32 mm
  - 4081 16 - 18 - 20,8 mm



# The smartyBOX S5.

The next generation's socket sets.

**S5**



Size:  
B 367 x T 316 x H 70 mm.



MATADOR reversible ratchet  
for the smallest gaps.



Standard bits made of high-  
alloy S2 material with color  
guide system.

Patented spinner handle with bayonet mount  
for bit and square drive.

## ■ smartyBOX S5

**1/4 1/2 7/8**

- The MATADOR i-Boxx 72 protects the socket set from splash water and ensures maximum order
- It can be integrated into the MATADOR system
- The sturdy stacking box has a load capacity of

up to 5 kg and gives a perfect overview thanks to the transparent closure lid and inscribable handle

- Everything is fit securely into MFS soft foam inlays and survives even the hardest fall

Art. Code	b mm	h mm	t mm	g
8145 4118 <b>75</b>	367	70	316	4740

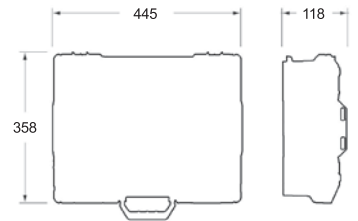
Inhalt	Art. Code	Dimensions
Reversible Ratchet	2061	1/4
Sliding Handle	2064	1/2
Extension 50 - 100 mm	2065	1/4
Universal Joint	2068	1/2
Multi Component Spinner Handle	2073	1/2
Bit-Adapter F	2084	3/8, 1/2
Drill Adapter for Sockets	2085	1/4
Bits 3 - 3.5 - 4.5 - 5.5 - 6.5 x 25 mm	7026	
Bits PH 0 - PH 1 - PH 2 - PH 3 x 25 mm	7027	
Bits PZ 0 - PZ 1 - PZ 2 - PZ 3 x 25 mm	7027	
Bits 3 - 4 - 5 - 6 x 25 mm	7028	
Bits T6 - T7 - T8 - T9 - T10 - T15 - T20 - T25 - T27 - T30 - T40 x 25 mm	7033	
Reversible Ratchet	4061	1/2
Sliding Handle	4064	1/2
Extension 125 mm	4065	1/2
Universal Joint	4068	1/2
10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 26 - 27 - 28 - 30 - 32 mm	4075	1/2



# The smartyBOX L1.

Multifunctional. Versatile. Flexible.

**L1**



Size:  
B 445 x T 358 x H 118 mm.



Including removable smartyBOX S1 with folding handle.



Stackable by simply clicking and separating the boxes.

■ smartyBOX L1

1/4 1/2 3/8



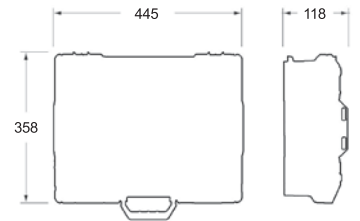
Art. Code	b mm	h mm	t mm	g	
8145 4150	445	358	118	5970	1
<ul style="list-style-type: none"> <li>0500 3C Combination Pliers 160 mm</li> <li>0500 Retaining Clip for Combination Pliers</li> <li>2061 Reversible Ratchet</li> <li>2065 Extensions + 50 - 100 mm</li> <li>2068 Universal Joint</li> <li>2073 Multi Component Spinner Handle</li> <li>2075 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm</li> <li>2084 Bit-Adapter F</li> <li>2084 Bit-Adapter M</li> <li>7040 Drill Adapter for Bits</li> <li>7026 Bits 3 - 3,5 - 4,5 - 5,5 - 6,5 x 25 mm</li> <li>7027 Bits PH 0 - PH 1 - PH 2 - PH 2 - PH 3 x 25 mm</li> <li>7027 Bits PH 1 - PH 2 x 75 mm</li> <li>7027 Bits PZ 0 - PZ 1 - PZ 2 - PZ 2 - PZ 3 x 25 mm</li> <li>7028 Bits 3 - 4 - 5 - 6 x 25 mm</li> <li>7033 Bits T6 - T7 - T8 - T9 - T10 - T15 - T20 - T25 - T27 - T30 - T40 x 25 mm</li> <li>4061 Reversible Ratchet</li> <li>4065 Extension 125 mm</li> <li>4068 Universal Joint</li> <li>4075 8 - 9 - 10 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 26 - 27 - 30 - 32 mm</li> <li>4081 16 - 18 - 20,8 mm</li> <li>8191 Lanyard with snap hook for scouring the reversible ratchet</li> </ul>					



# The smartyBOX L2.

The allround set for professionals.

**L2**



Size:  
B 445 x T 358 x H 118 mm.



Tool compartment in the lid with even more premium tools.

## ■ smartyBOX L2



Art. Code	Icon	Dimensions	Weight		
		b mm	h mm	t mm	g
8145 4145		445	118	358	6360
Content	<ul style="list-style-type: none"> <li> 0185 8 - 10 - 11 - 13 - 14 - 17 - 19 - 22 mm</li> <li> 0440  1,5 - 10 mm</li> <li> 0443  T10 - T50</li> <li> 0500 3C Combination Pliers 180 mm</li> <li> 0532 3C Sidecutter 160 mm</li> <li> 0556 Water pump pliers 240 mm</li> <li> 0705 500 g</li> <li> 0714 200 mm</li> <li> 0787 250 mm</li> <li> 0825 200 mm</li> <li> 0797 2 m</li> <li> 2K  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</li> <li> 2K  0655 PH1 x 80 - PH2 x 100 mm</li> <li> 0655 0.5 x 3.0 x 65 mm</li> <li> 0664 1.5 - 3.0 - PH00 - PH0</li> </ul>				



**There are many tool cases in the market.  
But only very few with high quality tools  
in a compact, full and uncompromising set.**



## **BlackBox.**

**The most important 125 high quality hand tools  
for work, home and hobby in one case.  
Compact. Complete. Uncompromising.**

# Everything included. Only high quality hand tools.

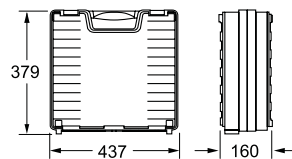
## Tool Case Black Box

6,3 mm 1/4 12,5 mm 1/2

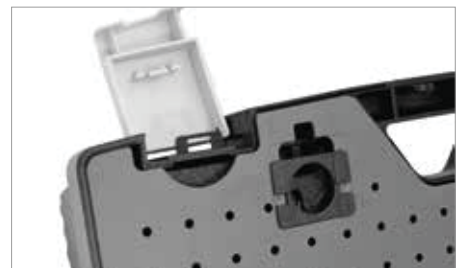
The MATADOR „BlackBox“ is a real surprise box. It contains everything a demanding and ambitious (hobby) mechanic needs for **large and small repairs and maintenance**. Thought-out compilation of tools, uncompromising quality and **many multifunctional tools**.

Shake-proof tool storage thanks to soft foam inlay that keeps all tools in place during transport. In well-designed and stable plastic case.

- 4-pc pliers set with 3KsoftGrip handles inc. all-round side cutter for cutting, stripping, crimping and bending work
- 4in1 pocket screwdriver with pocket clip and the 4 most important screwdriver bits for slotted and cross-slotted (PH) screws incl. fine mechanics bits for glasses, mobile phone, keyboard, radio, etc.
- 4in1 ring ratchet spanner, suitable for 70% of all screwing work
- 6.3(1/4) smarty-BOX including the new reversible ratchet with 90 teeth for the smallest gaps
- 2 hex key sets for hexagon socket and TORX screws with softGRIP holder for quick key removal



Shakeproof arrangement of the tools in soft foam inlays.



High functionality and easy-to-open intermediate plate.

Art. Code	b mm	h mm	t mm	g	
4152 0001	437	160	379	9500	1

Content	Art. Code	Description	Art. Code	Description
	0184	10 - 13 - 17 - 19 mm	2061	90°
	0185	8 - 10 - 11 - 13 - 14 - 17 - 19 - 22 mm	2065	6,3 1/4 50 mm
	0442	1.5 - 10 mm L	2075	6 - 7 - 8 - 9 - 10 - 11 13 mm
	0443	T10 - T50	2084	1/4
	0500	165 mm (6.1/2")	2085	1/4
	0553	190 mm (7.1/2")	7026	3 - 3.5 - 4.5 - 5.5 - 6.5 x 25 mm, 4 - 6 x 75 mm
	0585	205 mm (8")	7027	PH 0 - PH 1 - PH 2 - PH 2 - PH 3 x 25 mm PH 1 - PH 2 x 75 mm
	0556	240 mm (9.1/2")	7027	PZ 0 - PZ 1 - PZ 2 - PZ 2 - PZ 3 x 25 mm
	0660	0.5 x 3.0 x 100 mm	7028	3 - 4 - 5 - 6 x 25 mm
	0615	0.8 x 5.0 x 100 mm, 1.0 x 5.5 x 125 mm, 1.2 x 6.5 x 150 mm	7033	T6 - T7 - T8 - T9 - T10 - T15 T20 - T25 - T27 - T30 T40 x 25 mm, T25 - T30 x 75 mm
	0655	PH 0 x 60 mm, PH 1 x 80 mm PH 2 x 100 mm	7047	
	0635	0.5 x 3.0 x 65 mm	4061	90°
	0664	1.5 - 3.0 - PH 00 - PH 0	4064	300 mm
	0705	300 g	4065	125 - 250 mm
	0714	150 mm	4068	12,5 1/2
	0717	4 x 120 x 10 mm	4075	10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 22 - 24 27 - 30 - 32 mm
	0718	∅ 3 - 4 - 5 - 6 mm	4085	12,5 1/2
	0775	150 mm	4081	16 - 18 - 20.8 mm
	0784	270 g Neodym	7110	XL (9)
	0787	250 mm		
	0798	5 m		
	0828	170 mm		



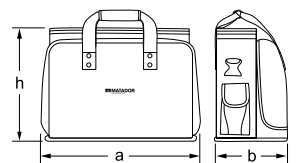
High quality case „Made in Germany“ in a compact design.



Solid polypropylene construction with wide and rubberized handle.

## ■ Tool case SOFT

- Multifunctional technician tool case made of highly durable nylon



Tools not supplied.



Flexible strap



Padded internal pockets for laptop and DIN A4 documents



Soft shoulder straps



Removable shoulder strap



Two zippers for security padlocks



With fixing belt for mounting on trolleys



Art. Code	h mm	a mm	b mm	g	
8125 0001 Tool case SOFT empty	350	430	230	2300	1



## ■ Tool cases ABS

- Oil and water resistant
- Shock proof and extra large capacities



Case made of strong and resistant ABS material.

2 document pockets.

Metal hinges with hinged covers.

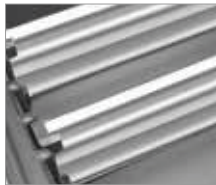
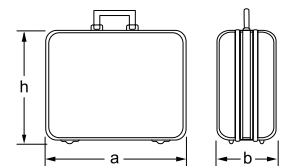
Circumferential robust aluminum frame with shock edge protection, hardened and rigid.

Removable tool panels in lid and bottom.

Sturdy ergonomic handle.

Art. Code	Volume l	Max. load kg	h mm	a mm	b mm	g	
8130 0001	26	25	390	500	190	4880	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



Two in-line skate wheels

Also as trolley available (8130 0002):



8130 0002 can be used as trolley



Sturdy ergonomic handle



## ■ Tool case CADDY

- Double walled case made of HDPE plastic
- Body case can be individually compartmentalised

Shock edge profile as cover and design element.



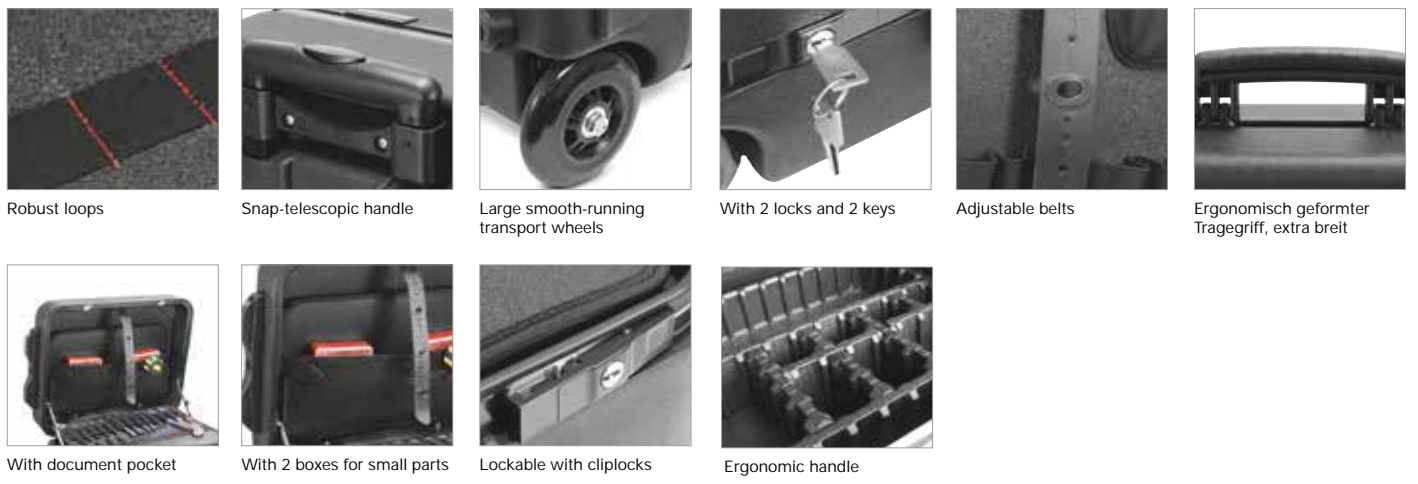
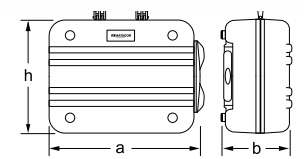
Aluminum frame, hardened and rigid.

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	
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

Ergonomisch geformter Tragegriff, extra breit

With document pocket

With 2 boxes for small parts

Lockable with cliplocks

Ergonomic handle



■ Tool case CADDY with Tool Assortment UNIVERSAL XL

156



Art. Code	Weight (g)	Volume (l)
8132 8014	14800	1
<p><b>Content</b></p> <ul style="list-style-type: none"> <li>0190 8 - 9 - 10 - 12 - 13 - 14 - 15 - 17 - 18 - 19 mm</li> <li>0442 1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm</li> <li>0500 7" - 180 mm</li> <li>0530 8" - 200 mm</li> <li>0556 240 mm</li> <li>0615 5 x 100 - 6,5 x 150 mm</li> <li>0640 6,5 x 25 mm</li> <li>0641 PH 2</li> <li>0655 PH 1 - PH 2</li> <li>0705 400 g</li> <li>0714 125 mm</li> <li>0716 3 mm</li> <li>0775 200 mm 5 pcs</li> <li>0798 3 m</li> <li>0826 180 mm</li> <li>0843 210 mm</li> <li>2140 46 pcs: <ul style="list-style-type: none"> <li>2061</li> <li>2064 115 mm</li> <li>2065 50, 100 mm</li> <li>2068</li> <li>2073 150 mm</li> <li>2075 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm</li> <li>2076 4 - 7 x 32 mm</li> <li>2077 PH 1 - PH 2 x 32 mm</li> <li>2077 PZ 1 - PZ 2 x 32 mm</li> <li>2078 3 - 4 - 5 - 6 - 8 x 32 mm</li> <li>2090 E4 - E5 - E6 - E7 - E8 - E10 - E11</li> <li>2092 T8 - T10 - T15 - T20 - T25 - T27 - T30 - T40 x 32 mm</li> <li>2084 6,3 (1/4) - 6,3 (1/4) Bit</li> </ul> </li> <li>4135 40 pcs: <ul style="list-style-type: none"> <li>4061</li> <li>4065 125, 250 mm</li> <li>4068</li> <li>4075 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 27 - 30 - 32 mm</li> <li>4084 12,5 (1/2) - 6,3 (1/4) Bit</li> <li>4090 E10 - E12 - E14 - E16 - E18 - E20 - E22 - E24</li> <li>4092 T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60 x 62 mm</li> </ul> </li> <li>7050 Bitbox in metal case, 31 pcs.: <ul style="list-style-type: none"> <li>7048 6,3 (1/4) - 6,3 (1/4) 60 mm</li> <li>7026 3x 0,8 x 4,5 - 1,0 x 5,5 - 1,2 x 6,5 mm</li> <li>7027 3x PH 1 - PH 2 - PH 3</li> <li>7027 3x PZ 1 - PZ 2 - PZ 3</li> <li>7028 3x 3 - 4 - 5 mm</li> <li>7032 3x T10 - T15 - T20 - T25 - T30 - T40</li> </ul> </li> </ul>		



# Tool trolley ALLROUND.

The mobile workshop.



Incl. smartyBox.  
**smartyBOX**



Stay mobile with the MATADOR premium trolley ALLROUND including 185-pc tool set.

Extremely robust, double-walled tool case with telescopic handle and smooth-running wheels. Comprehensive tool set „Best of MATADOR“.



Snap-lock telescopic handle.



Bottom can be divided by variable inserts.



3K softGRIP

Innovative pliers set with 3C handles and many additional functions.



Large, smooth-running wheels.

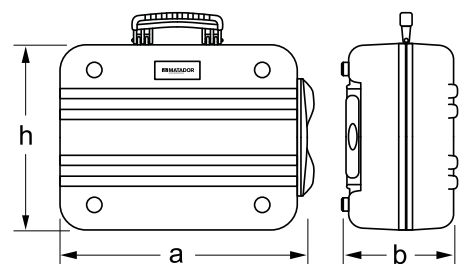


smartyBOX

Including smartyBOX, our practical universal socket box.

Art. Code	a mm	b mm	h mm	g
8132 0185	485	190	370	13700

Content	Item	Quantity	Item	Quantity
	0190	8 - 32 mm	0786	440 mm
	0442	1.5 - 10 mm L	0798	5 m
	0444	T10 - T50	0743	140 mm
	0500	165 mm (6.1/2")	0745	250 mm
	0530	165 mm (6.1/2")	0826	180 mm
	0585	170 mm (6.3/4")	0762	Drill assortment HSS-R
	0556	240 mm (9.1/2")	0775	200 mm 5-tlg.
	0588	250 mm (10")	0782	290 x 40 mm
	0591	300 mm (12")	0784	1.000 g
	0616	4 x 100 mm	0798	300 x 30 x 1.0 mm
	0615	5,0 x 100 mm, 6,5 x 150 mm, 8,0 x 175 mm, 10,0 x 250 mm	0799	140 mm
	0655	PH 1 x 80 mm, PH 2 x 100 mm PH 3 x 150 mm	0840	250 mm
	0657	PZ 1 x 80 mm, PZ 3 x 150 mm	0843	5-tlg.
	0635	0,5 x 3,0 x 65 mm	4061	90°
	0671	10 - 13 x 230 mm	4064	300 mm
	0700	35 mm	4065	125 - 250 mm
	0705	300 g, 500 g	4068	12,5 mm 1/2
	0718	∅ 2 - 3 - 4 - 5 - 6 - 8 mm	4075	10 - 11 - 12 - 13 - 14 - 15 16 - 17 - 18 - 19 - 22 - 24 27 - 30 - 32 mm
	0719	3 - 4 - 125 - 150 mm	2155	smartyBOX, 47 pcs



Outside dimensions::  
370 (h) x 485 (a) x 190 (b)

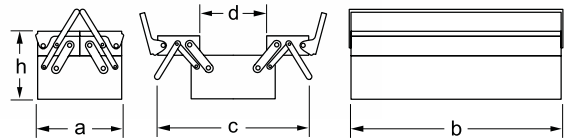
## ■ Tool case STEEL 3

- In sheet steel, black-silver painted
- Ideal assistant for garden, home, garage and industry
- Well-trieed and tested
- With 3 cases



Reversible handle.

2 side cases.



Art. Code	h mm	a mm	c mm	d mm	b mm	g	
8170 0020	150	200	330	135	420	3000	1



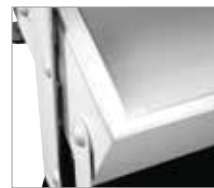
Solid construction in black-silver design



Lockable with padlock



Rounded handle edges



Tried and tested quality



With 3 or 5 compartments for different tools



**The classic.**  
Built for eternity.

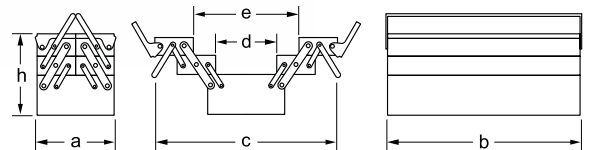
## ■ Tool case STEEL 5

- In sheet steel, black-silver painted
- Ideal assistant for garden, home, garage and industry
- Well-trie 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

## ■ Tool case STEEL 5 with tool assortment UNIVERSAL

108

Art. Code	kg
8175 8013  	25500

Content			
 0100	6x7 – 30x32 mm	 0780	
 0200	6x7 – 30x32 mm	 0781	
 0440	1,5 - 10 mm	 0782	
 0500	7" - 180 mm	 0783	
 0530	7" - 180 mm	 0852	
 0556	240 mm	 0786	
 0425	240 mm	 0814	
 0596	0 - 60 mm - 1.1/2"	 0825	
 0615	5 - 6,5 - 8 - 10 mm	 0840	
 0633		 0842	
 0655	PH 1 - PH 2 - PH 3	 0846	
 0660	3 x 100 mm	 0860	
 0700	35 mm	 4061	
 0705	400 g	 4064	
 0718	3 - 4 - 5 mm	 4065	125 - 250 mm
 0719/2		 4068	
 0752	500 mm	 4075	10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 mm
 0760	13 x 0,05 - 1,00 mm	 4081	16 - 20,8 mm
 0775	5 pcs 		





# Technical Symbols.

<b>General article data:</b>		Internal rectangle drive 14 x 18 mm	Tolerance 1% to DIN EN ISO 6789	
Article-Code (code number)		Internal hex drive	Tolerance 2% to DIN EN ISO 6789	
Length		Internal hex drive	Tolerance 3% to DIN EN ISO 6789	
Height		Internal bi-hexagon	Tolerance 4% to DIN EN ISO 6789	
depth		External hex drive	Tolerance 5% to DIN EN ISO 6789	
Outside diameter		External drive 6.3 mm (1/4")	Tolerance 6% to DIN EN ISO 6789	
Weight		External drive 8 mm (5/16")	Certificate to DIN EN ISO 6789	
Pack unit		External drive 11 mm (7/16")	Weight torque multipliers	
Additional information		Internal drive 6.3 mm (1/4")	Power transmission (Ratio)	
<b>Screw profile:</b>		Internal drive 8 mm (5/16")		
Slot		Internal drive 11 mm (7/16")		
Phillips / Cross recess (PH)		<b>Spanners:</b>		
Pozidriv (PZ)		Key width in millimeters		
Hex		Wrench size in Zoll (AF)		
Internal serrations (XZN)		Wrench size mouth		
Multi-spline RIBE®		Wrench size ring		
Internal-TORX®		SmartDrive-Profil		
Internal-TORX® with pin (Tamper Resistant)		Set 4-pieces		
External-TORX®		Screw size		
5-Star / IP-Profile		Nut size		
<b>Drives for sockets and bits:</b>		Scale		
External square drive		<b>Sockets:</b>		
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")		<b>Torque-technology:</b>		
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		
			Recommended internal tube diameter	
			Operating pressure	
			Air consumption	
			Filter	
			Oiler	
			Internal thread	
			External thread	
			Length locking pin	
			Pin	
			Rubber ring	
			Maximum loosening torque	
			Maximum torque	
			Recommended torque	
			Sound pressure level	
			Idle speed	
			Diameter blind rivet	
			Pulling force	
			<b>Screwdriver:</b>	
			Blade / Cutting edge width	
			Blade thickness	
			Blade length	
			Handle length	
			Total length	
			Blade length	
			Handle length	
			2 components handle	
			VDE Test Symbol (Tools)	
			GS Seal of tested quality	
			1000 V For working in voltage areas up to 1000 V	



Pliers:	
	Pliers cutting edge piano wire
	Pliers cutting edge hard wire
	Pliers cutting edge medium-hard wire
	Pliers cutting edge softwire
	Pliers cutting edge tube
	Pliers cutting edge round steel
	Pliers cutting edge cable
	Maximum cable cross-section
	Minimum cable cross-section
	Pliers cutting edge wire rope
	Jaw form
	Flat round jaws
	Flat jaws
	Concave jaws
	V-shaped jaws
	Round jaws
	Jaw form angle
	Pliers cutting edge material thickness
	Pliers cutting edge engineering steel
	Pliers cutting edge stainless steel
	Jaw form range
	Jaw form range
	Jaw form range
	Jaw form range
	Jaw form mouth wide
	Jaw form mouth length
	Jaw form serrated file-cut
	Jaw form flat file-cut
	Internal retaining ring
	Biggest Ø
	Smallest Ø
	External retaining ring
	Biggest Ø
	Smallest Ø
	Cutting form
	Cutting form with semi bevel
	Cutting form with bevel
	Cutting form center cutting
	Cutting form wire fitting spring

	Ø Tip
Miscellaneous tools:	
	Hammer head
	Wire thickness FE
	Wire thickness VA
	Thickness
	Cartridge
	Lifting capacity
	Square flatter
	Chisel 8-kant
	Width flat chisel
	Chisel width
	File profile flat
	File profile three-edged
	File profile round
	File profile square
	File profile half-round
	External puller width
	Internal puller width
	Puller height
Trolleys and accessories:	
	Suitable for Quadro
	Suitable for Ratio
	Suitable for Vario
	1/3 Modul
	3/3 Modul
	Available / o.k.
	Not available / not o.k.
	Drawers minimum height 50 mm
	Drawers minimum height 75 mm
	Drawers additional load 35 kg
	Drawers additional load 70 kg
	Drawers additional load 100 kg
	Total additional load 240 kg
	Total additional load 300 kg
	Total additional load 500 kg
	Total additional load 750 kg
	Total additional load 1000 kg
	Total additional load 1200 kg
	Total additional load 1250 kg

	Magnetic
	Left cutting
	Right cutting
Lamps:	
	High End LED
	High End Cree LED
	Lumen
	Fix focused lens
	Operating times in hours
	Waterproof according to IP 54
	Waterproof according to IP 67
	Supply 2 batteries LR14 (Baby), 1.5 volts
	Supply 3 batteries LR14 (Baby), 1.5 volts
	Supply 3 batteries LR14 (Baby), 4.5 volts
	Lamp diameter
	Length

## 1. Application

1.1 These General Terms & Conditions of Delivery (hereinafter referred to as "Terms") shall apply to all contracts, including but not limited to future contracts, with entrepreneurs, legal persons under public law and special funds under public law (hereinafter referred to as "Purchaser") on deliveries and other services, with the inclusion of contracts to produce a work, wage labour operations and the delivery of fungible and non-fungible things, by MATADOR GmbH & Co. KG, Morsbachtalstrasse 17, 42855 Remscheid (hereinafter referred to as "MATADOR"). Any General Terms & Conditions of the Purchaser shall apply only if and to the extent that these are explicitly confirmed by MATADOR in writing. In particular, any silence by MATADOR regarding any differing terms and conditions shall not be considered as any acknowledgement or consent, not even for any future contracts. The Terms shall apply in lieu of any General Terms & Conditions of the Purchaser, even if any acceptance of order is provided for thereunder as unconditional acknowledgement of the Purchaser's General Terms & Conditions.

1.2 Any individual agreements (e.g. master delivery contracts, quality assurance agreements) and/or any statements in any order confirmation shall take precedence over these Terms. In case of doubt, any commercial terms need to be interpreted in accordance with the Incoterms® 2020 issued by the International Chamber of Commerce (ICC) in Paris.

## 2. Contract Conclusion

2.1 Offers by MATADOR shall be non-binding; this shall also apply to any statements in any catalogues and the respective valid price list. Illustrations, statements of dimension and weight in printed matter, web offers and any other publications of MATADOR shall prevail only approximately, unless exact conformity is required to ensure usability for the purpose provided for in the contract. They shall not be deemed to be guaranteed characteristics but descriptions or identifications of the product or service. Any deviations customary in the trade and any deviations which are the result of legal regulations or represent technical improvements, as well as any replacement of components by equivalent parts shall be deemed to be in accordance with the contract only to the extent that they have no negative impact on any usability for the purpose provided for in the contract.

2.2 Any purchase order placed by the Purchaser for the goods shall be deemed to be a binding offer. Unless otherwise provided for in the purchase order, MATADOR shall be entitled to accept such offer within four (4) weeks of receipt by MATADOR.

2.3 Order confirmations may be given either in writing or text form or by supply of the goods or notification of readiness for shipment (hereinafter referred to as "Confirmation") to the Purchaser. Where notice of Confirmation is not given within the deadline for Confirmation set out in clause 2.2, the contract on the confirmed/delivered goods shall be deemed to have been accepted, unless the Purchaser objects within two weeks from receipt of the (belated) notice of Confirmation or, where the goods are supplied without any order confirmation being sent beforehand, accepts the goods and fails to object within two weeks after receipt. The same shall apply in case of any deviations in the order confirmation and/or delivery of goods, e.g. due to any packaging units used, compared to the purchase order.

2.4 The Purchaser shall comply strictly with any and all nationally or internationally applicable import or export provisions, obtain the necessary approvals, where appropriate, and provide in due course any information and document required in the respective country of delivery for export, shipment or import. Any agreed Delivery Times (clause 4), where appropriate, shall become obsolete by any delays due to any export checks or approval procedures. In this case, MATADOR and the Purchaser shall mutually agree on reasonable new deadlines. Where any necessary approvals are not granted within a period of 6 calendar weeks following the delay, the contract shall be deemed to not have been concluded with respect to the goods or services concerned. Where the Purchaser culpably violates this clause 2.4 sentence 1, the Purchaser shall, upon first demand, indemnify MATADOR from any and all claim and reimburse MATADOR for any damage asserted by any upstream suppliers or licensors of MATADOR, or other third parties towards MATADOR. The same shall apply to any damage and expense incurred by MATADOR.

## 3. Custom-Made Products

Where MATADOR and the Purchaser enter into any contract on the delivery of goods and/or packaging (beyond series production) custom-made upon the Purchaser's individual needs (hereinafter referred to as "Custom-Made Product"), MATADOR shall be entitled to retrospectively make changes to the scope of delivery, provided that the changes or deviations are reasonably acceptable for the Purchaser, taking into account the interests of

MATADOR. Custom-Made Products shall also include any serial products or any packaging that is to be specially marked at the Purchaser's request. According to technical requirements MATADOR may determine any technical or design features that have not been expressly ordered or specified.

## 4. Delivery Time

4.1 Any deadlines or dates stated by MATADOR for delivery of the goods (hereinafter referred to as "Delivery Deadlines") shall be considered as approximately, unless any fixed deadline or date has been expressly agreed to by MATADOR. Where dispatch was agreed, any Delivery Deadlines, unless expressly stated or agreed otherwise, shall relate to the time of handover to the carrier, freight forwarder or any other third party engaged to perform transport.

4.2 Any and all Delivery Deadlines shall commence (a) on the day the purchase price is received in full (including VAT and shipping costs), where delivery on advance payment has been agreed, or (b) on the day the purchase contract is concluded, where payment by cash on delivery or on account has been agreed. Moreover, any Delivery Deadlines shall apply only subject to all details of the respective purchase contract being clarified and all obligations of the Purchaser being met in good time, e.g. provision of all regulatory certifications or presentation of letters of credit.

4.3 Where any non-compliance with Delivery Deadlines is due to

- force majeure (e.g. war, acts of terror, civil commotion, pandemics, strike, lockout),
- any attacks by third parties on any IT systems of MATADOR that cannot be prevented despite all due care,
- any impediments for which MATADOR is not responsible due to any German or other applicable national or international legal regulation, embargoes or other sanctions or
- due to any – untimely and/or improper – supply to MATADOR, unless said supply is caused by fault of MATADOR,

any agreed Delivery Deadlines shall be extended accordingly to an appropriate extent. MATADOR shall advise the Purchaser of the beginning and end of any such circumstances as soon as possible.

4.4 MATADOR shall be entitled to deliver partial quantities if

- the partial quantity is sellable for the Purchaser in line with the purpose intended under the contract,
- delivery of the remaining ordered goods is secured and the Purchaser does not incur any significant additional effort and expense or any significant additional costs.

4.5 Where any binding Delivery Deadlines cannot be complied with for any reason for which MATADOR is not responsible, MATADOR shall inform the Purchaser thereof without undue delay whilst advising the Purchaser of the anticipated new Delivery Deadline. If said reason still exists regarding the new Delivery Deadline either, MATADOR shall be entitled to withdraw from the contract in whole or in part; payments or other contributions already rendered by the Purchaser shall be reimbursed without undue delay. Reasons for which MATADOR is not responsible in sense of this clause 4.5 shall include but are not limited to cases specified in clause 4.3.

4.6 If MATADOR defaults on any Delivery Deadline, the Purchaser may demand compensation for the damage caused by default besides delivery in accordance with clauses 10.1 and 10.2. In case of ordinary negligence, however, said compensation shall be limited to an amount equal to 0.5% for each completed week of delay and a total maximum amount of 5% of the purchase price agreed for the delayed delivery. The Purchaser's right to claim damages instead of delivery in accordance with clauses 10.1 and 10.2 shall remain unaffected.

## 5. Passing of Risk, Shipping Method, Default of Confirmation

5.1 The risk of accidental destruction and of accidental deterioration of the goods as well as the risk of delay for mail-order transactions, including for any deliveries free domicile, shall pass to the Purchaser with the goods being handed over to the haulier or freight forwarder, but no later than with the goods leaving the warehouse or works. In case of any delay in or failure of shipment for any reasons for which the Purchaser is responsible, the risk shall pass to the Purchaser from that day onwards on which the goods are ready for shipment and MATADOR has advised the Purchaser thereof.

5.2 The type of both packaging and transport shall be determined as MATADOR reasonably sees fit.

5.3 If the Purchaser is in default of acceptance of delivery or fails to perform any act of cooperation or any delivery is delayed for any other reasons for which the Purchaser is responsible, MATADOR shall be entitled to demand

compensation for damage suffered therefrom, including but not limited to extra expenditures (e.g. warehousing costs). MATADOR shall be entitled to bill a lump-sum compensation in the amount of 1% of the invoice amount for each commenced month of delay. However, the proof of any higher damage by MATADOR and the claims by law (in particular reimbursement of extra expenditures, reasonable compensation, termination) shall remain unaffected. The Purchaser may prove that MATADOR has incurred no or significantly lower damage. The Purchaser must not refuse any receipt of deliveries due to any insignificant delays.

## 6. Prices and Terms of Payment

6.1 Unless otherwise agreed, the list prices of MATADOR valid on the day of Confirmation shall apply. The prices are EXW Remscheid, Germany (Incoterms® 2020), plus statutory VAT, as well as, for export deliveries, plus customs duties, charges and any similar public dues. Any agreed extra or special services, where appropriate, shall be billed additionally.

6.2 Unless expressly agreed otherwise, any payments are to be effected in line with the payment terms stated on the invoice as of the date of the invoice, otherwise immediately net. MATADOR must be able to dispose of the amount on the due date.

6.3 Payments may be effected only by bank transfer or SEPA direct debiting procedure.

6.4 In case of default of payment, the outstanding amounts shall be subject to 8% interest p. a. from the due date, with the assertion of any higher interest rates and further damage in case of default remaining unaffected.

6.5 If it becomes apparent after conclusion of the contract that any payment claims of MATADOR will be at risk due to any insufficient ability of the Purchaser to perform, or if any other circumstances arise, implying that the Purchaser's ability to perform will deteriorate considerably, MATADOR may refuse supply according to § 321 German Civil Code. This shall also apply to the extent that the duty to perform (in particular payment of the purchase price) is not yet due.

6.6 Any offsetting against any counterclaims of the Purchaser or any withholding of payments on account of any such claims shall be admissible only to the extent that the counterclaims are uncontested or have been finally and non-appealable established or result from the same order under which the delivery in question has been performed.

## 7. Retention of Title

7.1 Title to the goods delivered shall remain with MATADOR until the purchase price (including VAT, shipping costs) has been paid in full (hereinafter referred to as "Reserved Goods").

7.2 Moreover, title to the goods delivered shall remain with MATADOR until any and all claims, in particular the respective balance claims due to MATADOR as part of the business relationship (balance reservation), have been met (hereinafter likewise referred to as "Reserved Goods"). This shall also apply to any claims arising in future and any conditional claims, including if any payments are effected on any specifically designated claims. This balance reservation shall finally lapse with all claims still outstanding at the time of payment and covered by this balance reservation have been settled. The balance reservation shall not apply, however, to any advance payment or cash transactions in terms of § 142 German Insolvency Code. Where requested by the Purchaser, MATADOR shall at its own discretion release the Reserved Goods as well as the things or claims taking their place to the extent that their value exceeds the amount of the secured claims by more than 20%.

7.3 The Reserved Goods must be neither pledged nor assigned as security to any third parties before the secured claims have been paid in full. In case of any attachments, seizures or any other dispositions or interventions by third parties, the Purchaser shall refer to the title of MATADOR and shall inform MATADOR thereof without delay to enable MATADOR to enforce any titles. Where the third party is unable to reimburse MATADOR for the court and out-of-court costs arising in this context, the Purchaser shall be liable towards MATADOR for these.

7.4 Until revoked and except for the cases set out in clause 7.3, the Purchaser shall be authorised to process and sell the Reserved Goods in proper business transactions.

7.5 Any reworking and processing of the Reserved Goods shall be effected for MATADOR as manufacturer in terms of § 950 German Civil Code, without incurring any obligation on MATADOR. Where the Purchaser processes, combines or intermixes the Reserved Goods with any other goods, co-title to the new goods shall be in proportion of the invoice value of the Reserved Goods to the invoice



value of the other goods used. In the event that the title of MATADOR lapses by any combination or intermixture, the Purchaser shall already now transfer to MATADOR the titles due to the Purchaser to the new stock or the thing to the extent of the invoice value of the Reserved Goods and shall keep them safe with the due care and diligence exercised by a prudent businessperson and free of charge for MATADOR. Furthermore, the co-titles of MATADOR shall also be deemed to be Reserved Goods in terms of clause 7.2.

7.6 The claims arising from the sale of the respective Reserved Goods shall already now be assigned by the Purchaser to MATADOR by way of security in full or in the amount of any co-title share of MATADOR (see clause 7.5) together with any and all securities acquired by the Purchaser for the claims. MATADOR hereby accepts the assignment. The same shall apply to any other claims that take the place of or arise otherwise regarding the Reserved Goods, such as insurance claims or claims from tort in case of loss or destruction. MATADOR revocably authorises the Purchaser to collect in the Purchaser's own name the claims assigned to MATADOR. This authorisation shall lapse when revoked by MATADOR, such revocation being possible in case of any breach of contract, in particular any default of payment by the Purchaser.

7.7 If MATADOR lawfully withdraws from the contract in case of any breach of contract, in particular default of payment, by the Purchaser, MATADOR shall be entitled to demand surrender of the Reserved Goods.

## 8. Industrial Property Rights

8.1 MATADOR reserves title and/or copyright to all offers and cost estimates submitted by MATADOR as well as to all drawings, illustrations, calculations, leaflets, catalogues, samples, models and other documents and aids provided to the Purchaser. The Purchaser must not make these objects or their contents accessible to any third parties, make them public, use or reproduce or allow any third party to use or reproduce them without explicit consent by MATADOR. Where requested by MATADOR, the Purchaser must return these objects and information in full and has to destroy any copies made of them, where appropriate, once the Purchaser no longer needs them in proper business transactions or if no contract is concluded following any negotiations.

8.2 Any right by the Purchaser to use the name of MATADOR or any MATADOR product designations for any web domains shall exist only where and to the extent that MATADOR expressly grants the Purchaser any such right by written declaration.

8.3 Unless expressly agreed otherwise, MATADOR shall merely be obliged to perform delivery of the goods in the country of the place of delivery without infringing any industrial property rights and/or copyrights of third parties (hereinafter referred to as "IPR").

8.4 The Purchaser shall advise MATADOR in writing without undue delay if any claims are asserted against the Purchaser on account of any infringement of IPR to the goods delivered by MATADOR. In case that any IPR of third parties is infringed by the goods delivered due to any circumstance for which the Purchaser is not responsible, MATADOR shall, at its own option and expense, modify or exchange the goods delivered such that any rights of third parties will no longer be infringed, but the goods delivered continue to fulfil the functions contractually agreed, or shall get the Purchaser the right of use by entering into a licence agreement with the third party. If MATADOR fails to do so within a reasonable period, the Purchaser shall be entitled to withdraw from the contract or to reduce the purchase price appropriately. Any damage claims of the Purchaser shall be subject to the restrictions of clause 10.

## 9. Warranty, Defects

9.1 Subject to this clause 9, warranty (including but not limited to incorrect and short delivery as well as improper assembly/installation or inadequate instructions) shall be governed by applicable law. In any case, the legal regulations regarding reimbursement of expenses in case of final delivery of any newly manufactured goods to a consumer (supplier recourse under §§ 478, 445a, 445b or §§ 445c, 327(5), 327u of the German Civil Code) shall remain unaffected, unless any equivalent compensation has been agreed, e.g. as part of any quality assurance agreement.

9.2 Basis of the liability of MATADOR for defects shall, first of all, be the agreement reached on the quality and the presupposed use of the goods (including accessories and instructions). A quality agreement in this sense shall be deemed to be all product descriptions and manufacturer's specifications which are the subject-matter of any individual contract or had been announced publicly by MATADOR (in particular in catalogues or on the Internet on the MATADOR website) at the time the contract is concluded. To the extent that any specific quality had not been assured or separately agreed in any materi-

als distributed or other publications made by MATADOR, it needs to be assessed pursuant to the legal regulation whether any defect exists or not (§ 434(3) of the German Civil Code). MATADOR shall not be liable for any (public) statements by any third parties in this respect.

9.3 For any goods with digital elements or any other digital contents, MATADOR shall owe any provision and, where appropriate, any updating of the digital contents only to the extent that this follows explicitly from any quality agreement under clause 9.2. MATADOR shall not be liable for any (public) statements by any third parties in this respect either.

9.4 The limitation period for all claims for defects, including damages claims, shall be one year from delivery. This shall not apply to the extent that any longer periods prescribed by mandatory law apply, e.g. in cases of any injury to life, body or health, any breach of duty by MATADOR by wilful intent or gross negligence, any fraudulently concealed defect or any non-compliance with any quality guarantee. The legal provisions on suspension of expiry, suspension and recommencement of the periods shall remain unaffected.

9.5 Any assertion of claims for defects by the Purchaser shall be subject to the Purchaser having complied with the Purchaser's legal duties to inspect and to claim defects (§§ 377, 381 of the German Commercial Code). If any defect becomes evident at the time of delivery or inspection or at any later point in time, MATADOR needs to be advised thereof in writing without delay. This shall also apply to any goods intended to be built in, attached or installed, even if the defect arising from the breach of any of these duties became apparent only after the corresponding processing; in this case, the Purchaser shall not have any claims to reimbursement of corresponding costs. Where any shortages are established, gross and net weight of the shipment need to be determined and copies of the delivery notes and freight documents need to be sent, otherwise MATADOR will not be able to handle the process.

9.6 In case of delivery of defective goods, MATADOR may first choose within a reasonable deadline whether subsequent improvement or replacement delivery will be performed; the Purchaser may reject any type of remedy chosen by MATADOR that is unreasonable for the Purchaser in an individual case. The right of MATADOR to refuse remedy according to German Civil Code shall remain unaffected.

9.7 The Purchaser shall give MATADOR the time and opportunity required to perform remedial work. In case of a defect, the Purchaser shall keep the goods ready for inspection. Where requested by MATADOR, the Purchaser shall send the defective goods to MATADOR free of any transport cost. MATADOR will reimburse the costs of the least expensive shipping method where the notice of defects is justified.

9.8 If any reasonable deadline to be set by the Purchaser for remedial work expired or is dispensable pursuant to the legal regulations, the Purchaser may withdraw from the contract or reduce the purchase price pursuant to the legal provisions. No right of withdrawal shall exist, however, in case of any insignificant defect.

9.9 In case of any defects, any claims of the Purchaser for damages or reimbursement of cost shall be governed by clause 10 below and shall otherwise be excluded.

## 10. Liability for Damages

10.1 MATADOR shall be liable for damages on account of any breach of contractual and non-contractual duties, including for any executives and any other persons used to perform an obligation, only in case of intent or gross negligence. Moreover, any liability by MATADOR in case of slight negligence shall be limited to foreseeable damages typical for the contract. Other than that, any liability, including for any indirect damage or consequential damage shall be excluded.

10.2 The above limitations shall not apply in case of any culpable violation of material contractual duties. The above limitations shall further not apply in case of any culpably caused damage to life, body or health, or in case and to the extent that MATADOR has accepted any guarantee for the quality of the delivered goods or in any cases of mandatory liability, e.g. under the German Product Liability Act.

10.3 MATADOR shall bear reasonable expenses in connection with remedy of defects, in particular reasonable in proportion to the purchase price of the goods, but in no case more than 100% of the purchase price. MATADOR shall bear any further expenses, e.g. sorting costs, only in accordance with clauses 10.1 and 10.2 above. This shall apply without prejudice to any mandatory legal regulations.

## 11. USA Sales Prohibition

11.1 Special requirements regarding packaging, marking, guarantees and operating instructions shall apply to the United States of America (hereinafter referred to as "USA"). The Purchaser shall thus be prohibited from selling or delivering, either directly or indirectly, any MATADOR products to any buyers in the USA.

11.2 The Purchaser shall be obliged to impose this sales prohibition on the Purchaser's buyers as well. Besides, the Purchaser shall ensure within the bounds of possibility that any customers who, to the Purchaser's knowledge, want to or will export such products into the USA will not be supplied.

## 12. Return Shipments

12.1 MATADOR shall not be obliged to accept return shipments of any non-defective goods, unless this has been expressly agreed with the Purchaser beforehand or MATADOR has given its prior consent.

12.2 Where any goods are taken back in line with clause 12.1 above, the Purchaser shall receive a credit note for any resaleable goods in their original packaging in the amount of 80% of the calculated (net) price. Any costs for any refurbishment and repackaging shall be additionally deducted from the credit note amount based on the expenses incurred. The credit note may be offset only against deliveries of new goods. Any isolated tools may basically not be taken back for reasons of safety.

## 13. Code of Conduct and Act on Corporate Due Diligence Obligations in Supply Chains

13.1 MATADOR has adopted a comprehensive Code of Conduct. Accordingly MATADOR is obliged, among others, to ensure ecological and social responsibility. The Code of Conduct shall be provided to the Purchaser upon request. Any codes of conduct published (irrespective of how and where) or directly sent to MATADOR by the Purchaser are not binding to MATADOR, unless this has been separately agreed to in writing. Any silence by MATADOR regarding any code of conduct of the Purchaser or third parties shall not be regarded as its acknowledgement or acceptance either.

13.2 Beginning of 2024 MATADOR is obliged to comply with the Act on Corporate Due Diligence Obligations in Supply Chains. Any individual requests of the Purchaser for information or adherence to that end shall hence not be required and will not be responded to by MATADOR.

## 14. Place of Performance, Place of Jurisdiction and Applicable Law

Place of performance, including but not limited to any duties of the Purchaser, shall be Remscheid. Place of jurisdiction for all disputes arising out of or in connection with any and all contractual relationship between the Purchaser and MATADOR shall be Remscheid. At its own discretion MATADOR may also sue the Purchaser at its registered seat. All legal relationships between MATADOR and the Purchaser shall be governed by German law to the exclusion of any conflict of laws principle and to the exclusion of the United Nations Convention on Contracts for the International Sale of Goods (CISG).

## 15. Miscellaneous

Unless otherwise agreed, any legally relevant statements and notices by the Purchaser in relation to the contractual relationship (e.g. setting of deadlines, notice of defects, withdrawal or reduction) need to be made or given in writing in terms of § 126 of the German Civil Code. Any legal formal requirements and any further proofs, in particular in case of any doubts as to the declarant's legitimation, shall remain unaffected.

(Effective: 12/2024)

**Be a MATADOR.**

**Stay tuned.**



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