



ATEX SPECIAL



2019

**NON SPARKING SAFETY TOOLS
ANTI-EXPLOSION WORK LIGHTS
ATEX IMPACT WRENCHES**

NON SPARKING SAFETY TOOLS

Designed and manufactured according to the standard requirements indicated by the Certifying Authority.

The samples have been tested and have reached a positive outcome in compliance with the standards indicated by the designated Authority in relation to non sparking tools.

They are specifically for safe work in environments with a potential risk of explosion, where flammable liquids or gases are used, or for applications that require the use of perfectly non-magnetic tools, with high resistance against corrosion.

These tools avoid the possibility of generating any sparks created while using the tool: their special composition in Copper-Beryllium (Cu-Be) or aluminium-copper (Al-Cu) guarantees the perfect combination between non sparking characteristics and mechanical resistance.

This special alloy, used throughout the new non sparking range, represents the best possible choice for this type of application, and thanks to the knowledge and experience that has followed our company for years, each tool is studied and researched even in terms of ergonomics and design, in order to achieve the best possible quality.

For every single tool, high quality standards are guaranteed by means of scrupulous control of the material using accurate chemical-physical analyses to ascertain perfect suitability, and through visual inspection of the tool's functional characteristics.

The **ABC TOOLS** non sparking tools ensure the best level of performance, guaranteeing safety requirements in various areas of application, such as: petrochemical refineries, oil tankers, chemical industries, gas and fuel stations and depots, powder storage, mines, distilleries, flour and grain silos, aerospace industries, navy, pharmaceutical industries, and magnetic applications.

They are also particularly useful in work in contact with fresh or salt water, in alkaline solutions and some acid solutions, thanks to their particular resistance to oxidation and corrosion.



Technical specifications of the construction material for **ABC TOOLS** non sparking tools:

Copper-Beryllium Cu-Be

Composition: Be 1,5 - 2,3 % - Co+Ni min. 0,2 % - Co+Ni+Fe max. 1,2 % - Cu to compensation
Hardness: 283 - 365 Brinell
Yield point: 840 - 880 N/mm²
Expansion coefficient: 0,000012%
Extensibility: 1,0%
Resistance to traction: 1117 ~ 1326 N/mm²
Magnetism: 0
Specific weight: 8,60
Resistivity: 8 ~ 6 Ω

Aluminium-Copper Al-Cu

Composition: Al 10% - 12% - Ni 4,6% - Fe+Mn <5,8% - Cu to compensation
Hardness: 229 ÷ 291 Brinell
Yield point: 450 ÷ 550 N/mm²
Expansion coefficient: 0,000015%
Extensibility: 5,0%
Resistance to traction: 782 ~ 989 N/mm²
Magnetism: 1,2
Specific weight: 8,10
Resistivity: 8 ~ 12 Ω

ABC TOOLS Screwdrivers

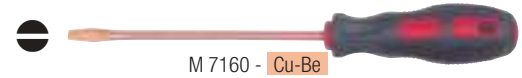
With ergonomic synthetic resin handle

For slotted screws  - ISO 2380 -  10 pcs.

M 7159/9 - In aluminium-copper alloy - Al-Cu

M 7160 - In copper-beryllium alloy - Cu-Be

Blade length	mm	50	75	100	150	200	250	300
Code	M 7159	9050	9075	9100	9150	9200	9250	9300
M 7159/9	Each €							
Code	M 7160	0050	0075	0100	0150	0200	0250	0300
M 7160	Each €							
Blade	mm	3x0,4	3x0,4	4x0,5	6x0,8	8x1,2	9x1,2	8x1,2
Overall length	mm	135	160	180	260	325	325	425

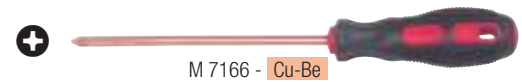


For "PHILLIPS" screws  - ISO 8764 -  10 pcs.

M 7165/9 - In aluminium-copper alloy - Al-Cu

M 7166 - In copper-beryllium alloy - Be-Cu

Tip DIN		0	1	2	3
Code		M 7165 9000	M 7165 9001	M 7165 9002	M 7165 9003
M 7165/9	Each €				
Code		M 7166 0000	M 7166 0001	M 7166 0002	M 7166 0003
M 7166	Each €				
For screws Ø	mm	≤2	2,1÷3	3,1÷5,2	5,3÷7,2
Blade dimensions	mm	50	80	125	200
Overall length	mm	135	160	240	325



ABC TOOLS Half-round jaws pliers

In copper-beryllium alloy - Cu-Be - ISO 5745

Half-round straight jaws  - Knurled - With diagonal cutter

Handles clad in very thick thermoplastic resin, with hand guard

Overall length	mm	150	200
Code		M 7184 0150	M 7184 0200
M 7184	Each €		
Jaw length	mm	54	74
Weight approx.	g	165	300



ABC TOOLS Combination pliers

Handles clad in very thick thermoplastic resin, with hand guard - ISO 5746

M 7189/9 - In aluminium - copper alloy - Al-Cu

M 7190 - In copper-beryllium alloy - Be-Cu

Overall length	mm	175	200
Code		M 7189 9175	M 7189 9200
M 7189/9	Each €		
Code		M 7190 0175	M 7190 0200
M 7190	Each €		
Weight M 7189/9 approx.	g	330	375
Weight M 7190 approx.	g	355	410



ABC TOOLS Diagonal cutter

In copper-beryllium alloy - Cu-Be - ISO 5749

Handles clad in very thick thermoplastic resin, with hand guard

Total length 150 mm - Weight approx. 200 g

Code M 7200 0000	M 7200	Each €	 10
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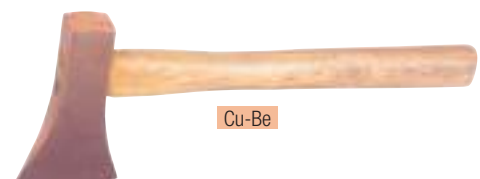
ABC TOOLS Hatchet

In copper-beryllium alloy - Cu-Be

Anatomical wooden handle

Overall length 340 mm - Weight approx. 1 kg

Code M 7205 0000	M 7205	Each €	 1
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ABC TOOLS Hammers

Type with round head and pen point nail puller, curved to facilitate removing nails
Round, smooth striking surface

With wooden handle

Head in copper-beryllium alloy - Cu-Be - Weight approx. 600 g

Code M 7214 0000	M 7214	Each €		1
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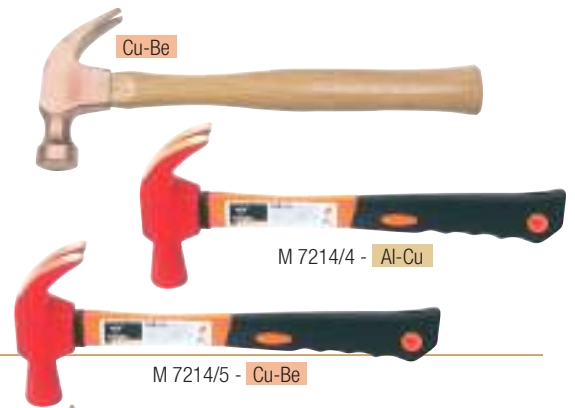
With two-component non-slip material handle

M 7214/4 - In aluminium-copper alloy - Al-Cu - Weight 680 g

M 7214/5 - In copper beryllium alloy - Cu-Be - Weight 680 g

Code M 7214 4000	M 7214/4	Each €		1
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Code M 7214 5000	M 7214/5	Each €		1
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Type with square striking surface and symmetrical pen

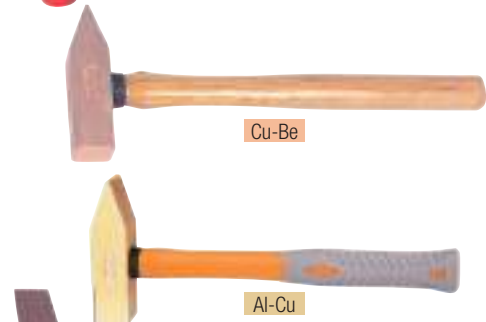
In copper-beryllium alloy - Cu-Be

With wooden handle

Weight approx.	g	200	300	500	800	1000
Code		M 7215 0200	M 7215 0300	M 7215 0500	M 7215 0800	M 7215 1000
M 7215	Each €					

With two-component material non-slip handle - DIN 1041 - In aluminium-copper alloy - Al-Cu

Weight approx.	g	300	500
Code		M 7215 4300	M 7215 4500
M 7215/4	Each €		



Type with point and straight pen

In copper-beryllium alloy - Cu-Be - Suitable for scraping - Weight approx. 590 g

Code M 7218 0000	M 7218	Each €		1
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ABC TOOLS Ball pein hammers

With round flat head and spherical pein

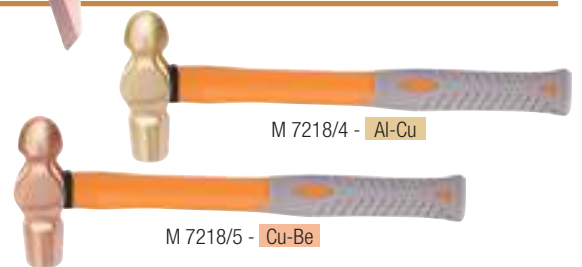
Handle in non-slip two-component material - Weight approx. 340 g

M 7218/4 - In aluminium-copper alloy - Alu-Cu

M 7218/5 - In copper-beryllium alloy - Cu-Be

Code M 7218 4000	M 7218/4	Each €		1
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Code M 7218 5000	M 7218/5	Each €		1
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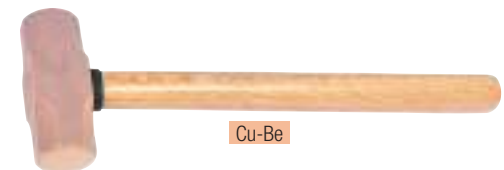
ABC TOOLS Mallets

Octagonal heads with round striking surface

With wooden handle

In copper-beryllium alloy - Cu-Be

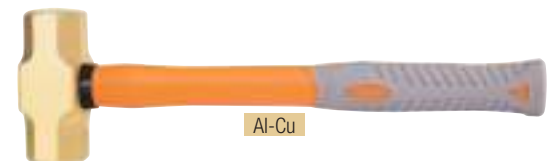
Weight approx.	g	1000	1500	2000
Code		M 7230 1000	M 7230 1500	M 7230 2000
M 7230	Each €			



With two-component material non-slip handle

In aluminium-copper alloy - Al-Cu

Weight approx.	g	1000	1500
Code		M 7230 4990	M 7230 4995
M 7230/4	Each €		

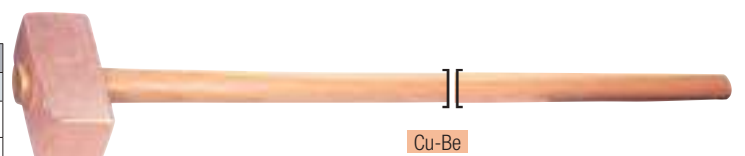


ABC TOOLS Sledgehammers with handle

In copper-beryllium alloy - Cu-Be

Square heads with pointed, polished striking surfaces - With wooden handle

Weight	kg	5	8
Code		M 7232 0005	M 7232 0008
M 7232	Each €		
Overall length	mm	900	900

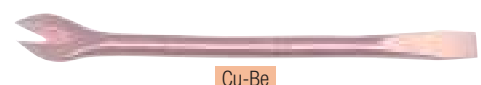


ABC TOOLS Nail puller

In copper-beryllium alloy - Cu-Be

With nail puller and chisel - Round section 13 mm Ø - Total length 250 mm - Weight approx. 280 g

Code M 7240 0000	M 7240	Each €		1
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ABC TOOLS Wedges

M 7250/9 - In copper-aluminium alloy - Al-Cu

M 7251 - In copper-beryllium alloy - Cu-Be

Length	mm	150	230	250
Code		M 7250 9150	M 7250 9230	M 7250 9250
M 7250/9	Each €			
Code		M 7251 0150	M 7251 0230	M 7251 0250
M 7251	Each €			
Cross-section h (max) x w	mm	40 x 8	40 x 20	40 x 30



M 7250/9 - Al-Cu



M 7251 - Cu-Be

ABC TOOLS Chisels

Type with straight cutting edge, with hexagonal section

M 7252/9 - In copper-aluminium alloy - Al-Cu

M 7253 - In copper-beryllium alloy - Cu-Be

Overall length	mm	150	200	250	300	350
Code		M 7252 9150	M 7252 9200	M 7252 9250	M 7252 9300	M 7252 9350
M 7252/9	Each €					
Code		M 7253 0150	M 7253 0200	M 7253 0250	M 7253 0300	M 7253 0350
M 7253	Each €					
Cut width	mm	12	16	16	19	19
Hexagonal section	mm	10	14	14	17	17
Weight M 7252/9 approx.	g	90	230	300	700	820
Weight M 7253 approx.	g	100	250	320	770	900



M 7252/9 - Al-Cu



M 7253 - Cu-Be

Pointed type - With hexagonal section

In copper-beryllium alloy - Cu-Be

Overall length	mm	250	300	350
Code		M 7255 0250	M 7255 0300	M 7255 0350
M 7255	Each €			
Hexagonal section	mm	19	19	22
Weight approx.	g	490	770	1050



Cu-Be

ABC TOOLS Center punches

In copper-beryllium alloy - Cu-Be

Overall length	mm	115	130	150
Code		M 7260 0115	M 7260 0130	M 7260 0150
M 7260	Each €			
Body diameter	mm	6	8	12
Weight approx.	g	20	60	120



Cu-Be

ABC TOOLS Punches

In copper-beryllium alloy - Cu-Be

Tip diameter	mm	2	3	5	6	8	10	12
Code	M 7262 ...	0002	0003	0005	0006	0008	0010	0012
M 7262	Each €							
Body diameter	mm	5	8	11	12	14	16	18
Overall length	mm	110	115	150	150	150	175	175
Weight approx.	g	18	40	100	150	170	255	335



Cu-Be

ABC TOOLS Pin punches

DIN 6450

M 7263/9 - In copper-aluminium alloy - Al-Cu

M 7264 - In copper-beryllium alloy - Cu-Be

Tip diameter	mm	3	4	5	6	8	10	12
Code	M 7263 ...	9003	9004	9005	9006	9008	9010	9012
M 7263/9	Each €							
Code	M 7264 ...	0003	0004	0005	0006	0008	0010	0012
M 7264	Each €							
Body diameter	mm	9	10	8	12	14	16	18
Overall length	mm	110	110	120	115	120	145	160
Weight M 7263/9 approx.	g	15	50	40	95	115	180	260
Weight M 7264 approx.	g	20	60	80	105	130	200	280



M 7263/9 - Al-Cu





M 7264 - Cu-Be

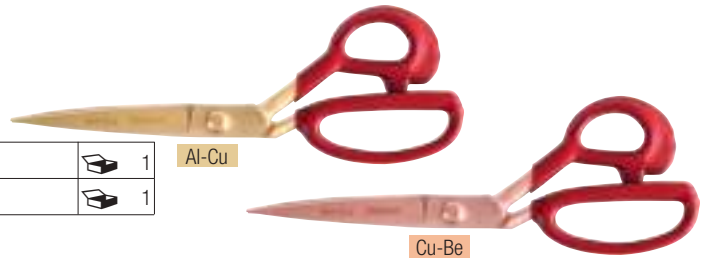
ABC TOOLS Scissors

Strong hand grip with enlarged opening and handles coated in thermoplastic resin
Blade length 98 mm - Overall length 225 mm

M 7265/9 - In copper-aluminium alloy - Al-Cu - Weight approx. 210 g

M 7266 - In copper-beryllium alloy - Be-Cu - Weight approx. 245 g

Code M 7265 9000	M 7265/9	Each €		1
Code M 7266 0000	M 7266	Each €		1





ABC TOOLS Metal sheet shears

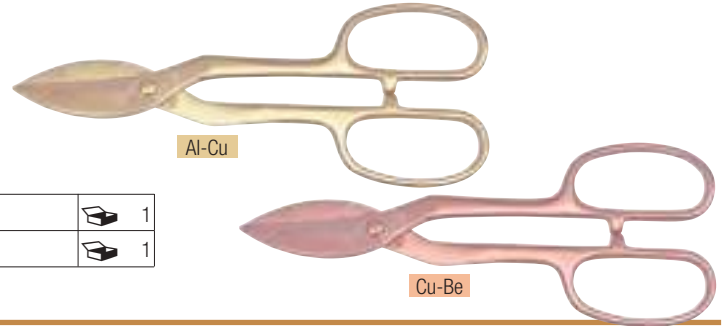
For straight cuts - Right cut

Cutting edge length 75 mm - Overall length 300 mm

M 7266/9 - In copper-aluminium alloy - Al-Cu - Weight approx. 410 g

M 7267 - In copper-beryllium alloy - Cu-Be - Weight approx. 490 g

Code M 7266 9000	M 7266/9	Each €		1
Code M 7267 0000	M 7267	Each €		1



ABC TOOLS Water pump pliers

Open hinge pin with 5 adjustment options

Handles clad in thermoplastic resin

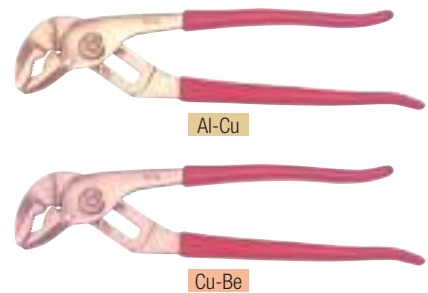
For tubes $\varnothing \frac{1}{4} \div 1 \frac{1}{4}$ inch - Min - max opening 6÷32 mm

Overall length 250 mm

M 7271/9 - In copper-aluminium alloy - Al-Cu - Weight approx. 310 g

M 7272 - In copper-beryllium alloy - Cu-Be - Weight approx. 325 g

Code M 7271 9000	M 7271/9	Each €		1
Code M 7272 0000	M 7272	Each €		1



ABC TOOLS Pipe cutters

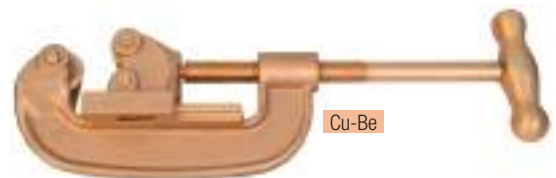
In copper-beryllium alloy - Cu-Be

With 1 cutting wheel and 2 guide rollers

For $\frac{3}{8}'' \div 2''$ ($\varnothing 10 \div 50$ mm) pipes

Overall length 380 mm - Weight approx. 2,2 kg

Code M 7274 1002	M 7274/1	Each €		1
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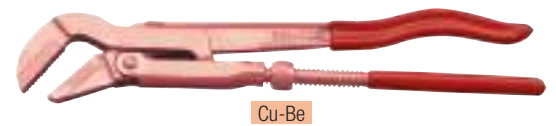
ABC TOOLS Pipe wrench

"Swedish" type - DIN 5234

In copper-beryllium alloy - Cu-Be

With jaws at 45° and synthetic resin coated handles

For pipes \varnothing	inches	1 1/2	2
Code		M 7275 5112	M 7275 5002
M 7275/5	Each €		
Maximum opening	mm	38	50
Overall length	mm	430	530
Weight approx.	kg	1,5	2,2

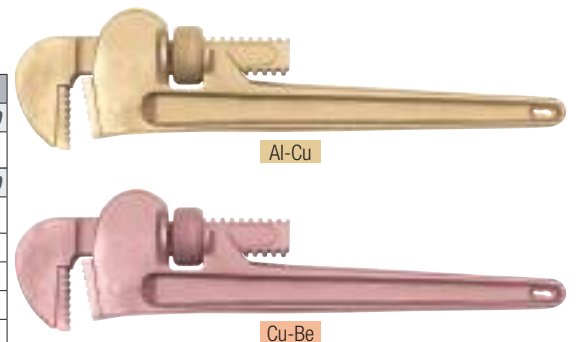


"Stillson" Model

M 7275/9 - In aluminium - copper alloy - Al-Cu

M 7276 - In copper-beryllium alloy - Cu-Be

Overall length	mm	250	300	350	450	600
Code		M 7275 9250	M 7275 9300	M 7275 9350	M 7275 9450	M 7275 9600
M 7275/9	Each €					
Code		M 7276 0250	M 7276 0300	M 7276 0350	M 7276 0450	M 7276 0600
M 7276	Each €					
For pipes up to \varnothing	inches	1	1 1/2	2	2 1/2	3
For pipes up to \varnothing	mm	30	40	50	60	75
Weight M 7275/9 approx.	kg	0,670	0,950	1,200	2,050	3,150
Weight M 7276 approx.	kg	0,730	1,050	1,310	2,250	3,460

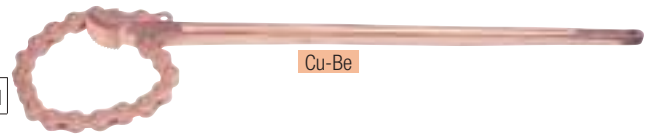


ABC TOOLS Chain pipe wrenches

In copper-beryllium alloy - Be-Cu

For 3/4" - 4" Ø pipes - Overall length 600 mm - Weight approx. 2,1 kg

Code M 7277 0000	M 7277	Each €	 1
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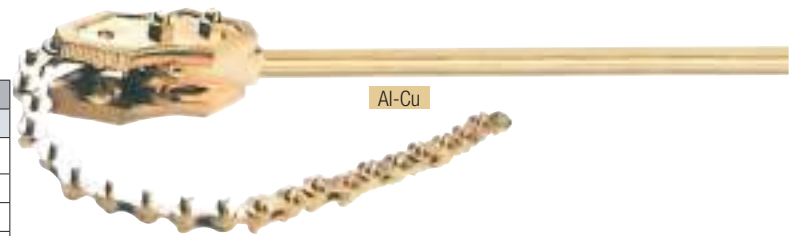


Cu-Be

“American” model

In aluminium-copper alloy - Al-Cu - With double reversible jaws

For pipes Ø max.	inches	4	12
Code		M 7277 4004	M 7277 4012
M 7277/4	Each €		
For pipes Ø max.	mm	100	300
Overall length	mm	600	900
Weight approx.	kg	3,6	9



Al-Cu

ABC TOOLS Adjustable wrenches

In copper-beryllium alloy - Be-Cu - Head offset at 15° with millimetric scale

Overall length	mm	200	250	300	375
Code		M 7278 0200	M 7278 0250	M 7278 0300	M 7278 0380
M 7278	Each €				
Length	inches	8	10	12	15
Opening	mm	24	30	36	46
Weight approx.	g	250	400	650	1300



Cu-Be

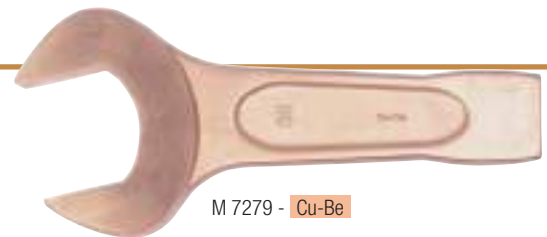
ABC TOOLS Striking wrenches

Open-end type - DIN 133

M 7278/9 - In aluminium - In copper alloy - Al-Cu

M 7279 - In copper-beryllium alloy - Be-Cu

Opening Ø	mm	17	19	22	24	27	30	32	36	41	46	50	55	60	65	70	75	80
Code	M 7278	9017	9019	9022	9024	9027	9030	9032	9036	9041	9046	9050	9055	9060	9065	9070	9075	9080
M 7278/9	Each €																	
Code	M 7279	0017	0019	0022	0024	0027	0030	0032	0036	0041	0046	0050	0055	0060	0065	0070	0075	0080
M 7279	Each €																	
Overall length	mm	125	125	135	150	175	190	190	210	230	250	275	305	315	335	370	375	400
Weight M 7278/9 approx.	kg	0,135	0,135	0,175	0,220	0,350	0,420	0,460	0,620	0,860	1,100	1,420	1,830	2,120	2,780	3,660	4,030	5,130
Weight M 7279 approx.	kg	0,150	0,150	0,195	0,245	0,385	0,465	0,515	0,675	0,955	1,225	1,560	2,025	2,345	3,060	4,030	4,660	5,650



M 7279 - Cu-Be

Box-end type - DIN 7444

METRIC SIZES

M 7284/9 - In aluminium-copper alloy - Al-Cu

M 7285 - In copper-beryllium alloy - Be-Cu

Opening Ø	mm	17	19	22	24	27	30	32	34	36	38	41	46	50	55	60	65	70	75	80
Code	M 7284	9017	9019	9022	9024	9027	9030	9032	9034	9036	9038	9041	9046	9050	9055	9060	9065	9070	9075	9080
M 7284/9	Each €																			
Code	M 7285	0017	0019	0022	0024	0027	0030	0032	0034	0036	0038	0041	0046	0050	0055	0060	0065	0070	0075	0080
M 7285	Each €																			
Overall length	mm	145	145	155	165	175	185	185	200	205	215	225	235	250	265	274	298	320	325	350
Weight M 7284/9 approx.	kg	0,125	0,125	0,160	0,210	0,315	0,430	0,450	0,490	0,520	0,620	0,680	0,890	1,030	1,300	1,450	1,800	2,200	2,720	3,250
Weight M 7285 approx.	kg	0,140	0,140	0,180	0,250	0,350	0,475	0,490	0,540	0,580	0,680	0,755	0,990	1,145	1,440	1,620	1,995	2,435	3,010	3,600



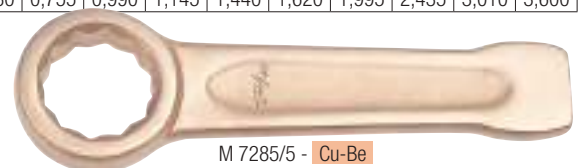
M 7285 - Cu-Be

AMERICAN SIZES

M 7285/4 - In aluminium-copper alloy - Al-Cu

M 7285/5 - In copper-beryllium alloy - Be-Cu

Opening Ø	inches	1 1/4	1 1/16	1 5/8	1 13/16	2	2 3/16	2 3/8	2 9/16	2 15/16	3 1/8	3 1/2
Code	M 7285	4005	4008	4010	4013	4015	4018	4020	4023	4026	4028	4030
M 7285/4	Each €											
Code	M 7285	5005	5008	5010	5013	5015	5018	5020	5023	5026	5028	5030
M 7285/5	Each €											
Overall length	mm	185	208	225	235	250	264	275	286	311	325	355
Weight M 7285/4 approx.	kg	0,440	0,530	0,690	0,870	1,160	1,320	1,450	1,840	2,760	3,290	5,080
Weight M 7285/5 approx.	kg	0,480	0,580	0,750	0,950	1,270	1,440	1,590	2,000	3,000	3,595	5,550



M 7285/5 - Cu-Be

ABC TOOLS Double open end wrenches



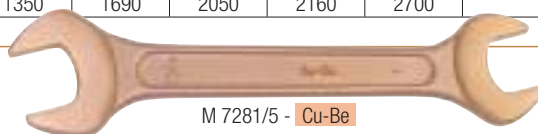
M 7280 - Cu-Be

METRIC SIZES

M 7281 - In aluminium-copper alloy - Al-Cu

M 7280 - In copper-beryllium alloy - Be-Cu

Opening \varnothing	mm	6x7	8x9	8x10	9x11	10x11	12x13	13x14	14x15	14x17	16x17	18x19	20x22
Code	M 7281	0067	0089	0810	0911	1011	1213	1314	1415	1417	1617	1819	2022
M 7281	Each €												
Code	M 7280	0067	0089	0810	0911	1011	1213	1314	1415	1417	1617	1819	2022
M 7280	Each €												
Overall length	mm	92	100	100	110	115	128	133	143	150	157	175	195
Weight M 7281 approx.	g	22	34	31	45	47	67	62	105	110	120	180	225
Weight M 7280 approx.	g	25	35	35	50	52	73	75	115	120	130	200	250
Opening \varnothing	mm	21x23	24x26	25x28	27x32	30x32	32x36	36x41	41x46	46x50	50x55	55x60	
Code	M 7281	2123	2426	2528	2732	3032	3236	3641	4146	4650	5055	5560	
M 7281	Each €												
Code	M 7280	2123	2426	2528	2732	3032	3236	3641	4146	4650	5055	5560	
M 7280	Each €												
Overall length	mm	200	230	236	255	265	300	330	360	370	385	415	
Weight M 7281 approx.	g	235	310	330	540	540	800	1210	1530	1850	1950	2450	
Weight M 7280 approx.	g	270	345	365	600	610	885	1350	1690	2050	2160	2700	



M 7281/5 - Cu-Be

AMERICAN SIZES

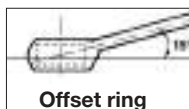
M 7281/4 - In aluminium-copper alloy - Al-Cu

M 7281/5 - In copper-beryllium alloy - Be-Cu

Opening \varnothing	inches	$\frac{3}{8} \times \frac{7}{16}$	$\frac{1}{2} \times \frac{9}{16}$	$\frac{5}{8} \times \frac{11}{16}$	$\frac{3}{4} \times \frac{13}{16}$	$\frac{7}{8} \times \frac{15}{16}$	$1 \times \frac{11}{16}$	$1 \frac{1}{8} \times \frac{13}{16}$	$1 \frac{1}{4} \times \frac{15}{16}$
Code	M 7281 4004	M 7281 4007	M 7281 4010	M 7281 4015	M 7281 4020	M 7281 4023	M 7281 4027	M 7281 4030	
M 7281/4	Each €								
Code	M 7281 5004	M 7281 5007	M 7281 5010	M 7281 5015	M 7281 5020	M 7281 5023	M 7281 5027	M 7281 5030	
M 7281/5	Each €								
Overall length	mm	110	130	160	180	210	230	245	260
Weight M 7281/4 approx.	g	55	80	130	185	270	355	480	660
Weight M 7281/5 approx.	g	60	90	155	225	305	405	550	730

ABC TOOLS Combination wrenches

With one open end and one offset polygonal end



Offset ring



M 7282 - Cu-Be

METRIC SIZES

M 7281/9 - In aluminium-copper alloy - Al-Cu

M 7282 - In copper-beryllium alloy - Be-Cu

Opening \varnothing	mm	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Code	M 7281	9006	9007	9008	9009	9010	9011	9012	9013	9014	9015	9016	9017	9018	9019	9020	9021
M 7281/9	Each €																
Code	M 7282	0006	0007	0008	0009	0010	0011	0012	0013	0014	0015	0016	0017	0018	0019	0020	0021
M 7282	Each €																
Overall length	mm	105	120	120	135	135	150	150	175	175	195	195	195	215	215	230	230
Weight M 7281/9 approx.	g	20	34	34	50	50	75	70	110	110	145	140	140	190	190	200	200
Weight M 7282 approx.	g	22	37	37	55	55	75	75	122	122	160	155	155	210	210	225	225
Opening \varnothing	mm	22	24	27	28	30	32	35	36	38	41	46	50	55	60	65	70
Code	M 7281	9022	9024	9027	9028	9030	9032	9035	9036	9038	9041	9046	9050	9055	9060	9065	9070
M 7281/9	Each €																
Code	M 7282	0022	0024	0027	0028	0030	0032	0035	0036	0038	0041	0046	0050	0055	0060	0065	0070
M 7282	Each €																
Overall length	mm	245	265	290	290	320	340	360	360	395	430	480	520	560	595	595	630
Weight M 7281/9 approx.	g	220	230	380	380	500	600	800	800	1150	1300	1700	2000	2230	2950	2900	4100
Weight M 7282 approx.	g	250	260	420	420	560	670	890	890	1200	1440	1890	2220	2460	3300	3250	4550



M 7282/5 - Cu-Be

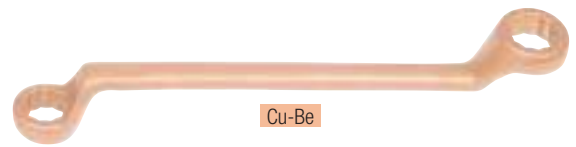
AMERICAN SIZES

M 7282/4 - In aluminium-copper alloy - Al-Cu


M 7282/5 - In copper-beryllium alloy - Be-Cu

Opening \varnothing	inches	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{11}{16}$	$\frac{3}{4}$	$\frac{13}{16}$	$\frac{7}{8}$	$\frac{15}{16}$	1	$1 \frac{1}{16}$	$1 \frac{1}{8}$	$1 \frac{3}{16}$	$1 \frac{1}{4}$
Code	M 7282	4003	4004	4005	4006	4008	4009	4010	4011	4012	4013	4014	4015	4016	4017	4018
M 7282/4	Each €															
Code	M 7282	5003	5004	5005	5006	5008	5009	5010	5011	5012	5013	5014	5015	5016	5017	5018
M 7282/5	Each €															
Overall length	mm	135	150	175	175	195	195	215	230	245	265	290	290	320	320	340
Weight M 7282/4 approx.	g	50	70	115	110	140	140	190	200	225	230	380	380	500	500	600
Weight M 7282/5 approx.	g	55	75	125	120	155	155	210	225	250	260	420	420	560	560	670

ABC TOOLS Deep curvature polygonal wrenches





In copper-beryllium alloy - Cu-Be

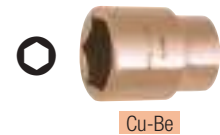
Opening 	mm	6x7	8x9	10x11	12x13	14x15	16x17	18x19	20x22	21x23	24x26	25x28	27x32	30x32
Code	M 7284 ...	0067	0089	1011	1213	1415	1617	1819	2022	2123	2426	2528	2732	3032
M 7284	Each €													
Overall length	mm	122	130	140	176	200	220	268	292	298	340	346	380	380
Weight approx.	g	45	50	80	120	190	210	295	365	393	480	580	740	805

ABC TOOLS Hexagonal sockets

Square drive  1/2" - In copper-beryllium alloy - Cu-Be

For nuts 	mm	8	10	11	12	13	14	15	16	17	18	19	20
Code	M 7286 ...	0008	0010	0011	0012	0013	0014	0015	0016	0017	0018	0019	0020
M 7286	Each €												
Overall length	mm	40	40	40	40	40	40	40	40	40	42	42	42
Weight approx.	g	77	78	79	79	80	80	94	94	94	94	110	120
For nuts 	mm	21	22	23	24	25	26	27	28	29	30	32	
Code	M 7286 ...	0021	0022	0023	0024	0025	0026	0027	0028	0029	0030	0032	
M 7286	Each €												
Overall length	mm	43	43	43	43	43	43	46	46	46	46	46	
Weight approx.	g	125	130	150	165	180	200	215	225	235	250	295	

 1/2"
12,5 mm



ABC TOOLS Socket accessories

Square drive  1/2" - In copper-beryllium alloy - Cu-Be

"T" lever with sliding coupling

Overall length 250 mm - Weight approx. 340 g

Code	M 7287 1000	M 7287/1	Each €		5
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Increasing connection - Drive  1/2" -  3/4"

Overall length 50 mm - Weight approx. 200 g

Code	M 7287 2034	M 7287/2	Each €		1
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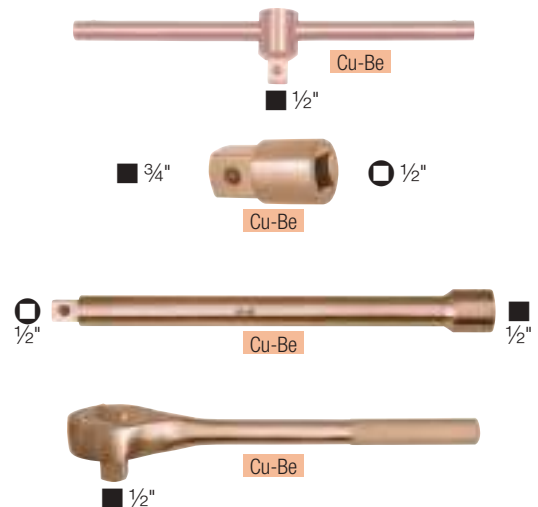
Extensions

Overall length	mm	125	250
Code		M 7287 3125	M 7287 3250
M 7287/3	Each €		
Weight approx.	g	260	470

Reversible ratchet


Overall length 250 mm - Weight approx. 690 g

Code	M 7287 5000	M 7287/5	Each €		1
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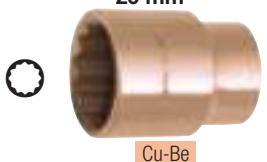


ABC TOOLS Polygonal sockets

Drive  3/4" - In copper-beryllium alloy - Cu-Be

For nuts 	mm	24	26	27	28	30	32	34	36	38	41	46	50
Code	M 7290 ...	0024	0026	0027	0028	0030	0032	0034	0036	0038	0041	0046	0050
M 7290	Each €												
Overall length	mm	55	55	55	55	60	60	60	60	60	65	65	70

 3/4"
20 mm



ABC TOOLS Polygonal socket accessories

Square drive  3/4" - In copper-beryllium alloy - Cu-Be

"T" lever with sliding coupling

Total length 400 mm - Weight approx 1,3 kg

Code	M 7291 1000	M 7291/1	Each €		1
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Reducing connection - Drive  3/4" -  1/2"

Overall length 55 mm - Weight approx. 300 g

Code	M 7291 2012	M 7291/2	Each €		1
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Reversible ratchet

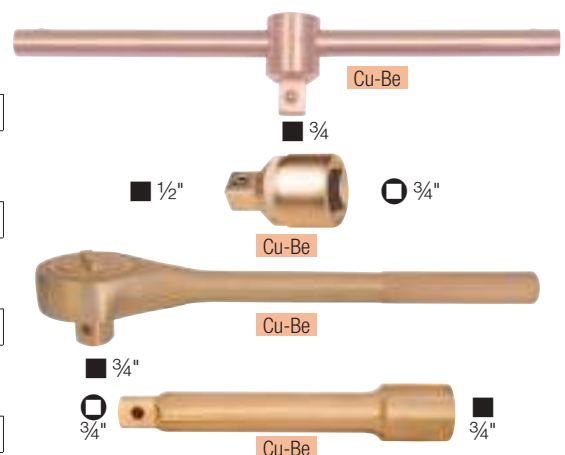
Overall length 320 mm - Weight approx 1,6 kg

Code	M 7291 5000	M 7291/5	Each €		1
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Extension

Overall length 200 mm - Weight approx 850 g

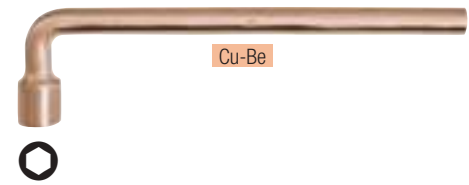
Code	M 7291 7200	M 7291/7	Each €		1
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ABC TOOLS Tubular pipe wrenches

In copper-beryllium alloy - Be-Cu
With hexagonal socket

For screws with \varnothing mm	10	13	17	19	22	24
Code M 7304 ...	0010	0013	0017	0019	0022	0024
M 7304 Each €						
Overall length mm	168	240	260	270	278	286
Weight approx. g	100	215	380	460	750	850
For screws with \varnothing mm	27	30	32	36	41	
Code M 7304 ...	0027	0030	0032	0036	0041	
M 7304 Each €						
Overall length mm	294	302	310	330	350	
Weight approx. g	900	1000	1100	1300	1500	



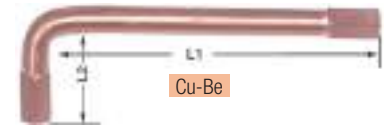
ABC TOOLS Hex L-wrenches

Short version - ISO 2936

M 7305/9 - In aluminium-copper alloy - Al-Cu

M 7306 - In copper-beryllium alloy - Be-Cu

For screws with \varnothing mm	1,5	2	2,5	3	4	5	6	7	8	10	12	14	17
Code M 7305 ...	9015	9002	9025	9003	9004	9005	9006	9007	9008	9010	9012	9014	9017
M 7305/9 Each €													
Code M 7306 ...	0015	0002	0025	0003	0004	0005	0006	0007	0008	0010	0012	0014	0017
M 7306 Each €													
For screws with \varnothing inches	1/16	5/64	3/32	1/8	5/32	7/32	1/4	9/32	5/16	3/8	1/2	9/16	11/16
Length L ₁ x L ₂ mm	59 x 25	59 x 25	59 x 25	59 x 25	65 x 30	79 x 32	85 x 37	88 x 43	92 x 44	110 x 45	130 x 52	150 x 58	168 x 65
Weight M 7305/9 approx. g	6	6	6	6	8	12	20	30	45	70	130	191	335
Weight M 7306 approx. g	8	8	8	8	10	16	25	34	50	82	145	211	370



Duraluminium levels

Unbreakable vials protected by transparent body, 30-year warranty, with electronic precision adjustment (BMI patented) and ultra-sound welded

POLYWOOD model

Non sparking, VDE-insulated level up to 1000V

In tubular profile 50x22 mm

Accuracy $\pm 0,5$ mm/m ($\pm 0,75$ mm upside down)

2 vials (a lenticular one) and shockproof rubber ends to protect the level

Length mm	400	600
Code	H 5164 0400	H 5164 0600
H 5164 Each €		



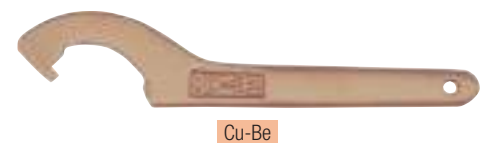
ABC TOOLS Hook wrenches

In copper-beryllium alloy - Be-Cu

Fixed opening type

With square nose - For ring nuts DIN 1804

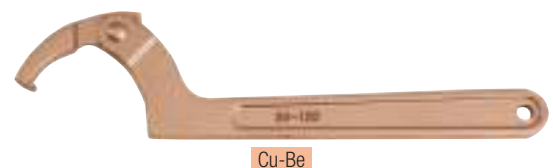
For max diameter mm	32	42	55	75	100
Code	M 7309 0032	M 7309 0042	M 7309 0055	M 7309 0075	M 7309 0100
M 7309 Each €					
For min diameter mm	30	40	52	68	95
Overall length mm	140	176	212	250	288
Weight approx. g	95	105	170	265	415



Variable opening type

With square nose

For ring nuts \varnothing mm	32÷75	50÷120	115÷170
Code	M 7310 1075	M 7310 1120	M 7310 1170
M 7310/1 Each €			
Overall length mm	205	288	310
Weight approx. g	260	515	670



ABC TOOLS Drum plug wrench

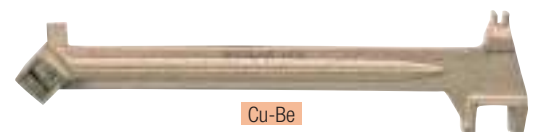
In copper-beryllium alloy - Be-Cu

With ends of heads suitable for opening most drums

Overall length 380 mm

Weight approx. 1250 g

Code M 7315 1000	M 7315/1	Each €	 1
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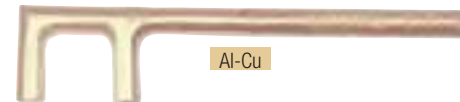
Suitable for the rotation of the wheels of the valves used in the petrochemical industry, gas and fuel deposits

Type with C

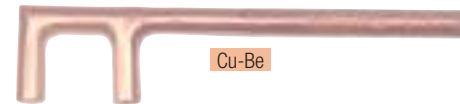
M 7315/9 - In aluminium-copper alloy - Al-Cu

M 7316/1 - In copper-beryllium alloy - Cu-Be

Mouth opening A	mm	30	32	35	40	45	48
Code	M 7315	9030	9032	9035	9040	9045	9048
M 7315/9	Each €						
Code	M 7316	1030	1032	1035	1040	1000	1048
M 7316/1	Each €						
Overall length	mm	200	300	250	300	350	375
Weight M 7315/9 approx.	g	250	490	325	422	540	595
Weight M 7316/1 approx.	g	280	540	360	470	610	660
Mouth opening A	mm	50	55	60	65	70	
Code	M 7315	9050	9055	9060	9065	9070	
M 7315/9	Each €						
Code	M 7316	1050	1055	1060	1065	1070	
M 7316/1	Each €						
Overall length	mm	400	450	500	550	600	
Weight M 7315/9 approx.	g	615	870	1100	1250	1360	
Weight M 7316/1 approx.	g	700	960	1200	1370	1540	



Al-Cu



Cu-Be

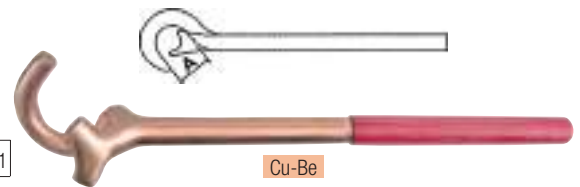
Type with tilted opening

In copper-beryllium alloy - Cu-Be

With spanner opening A 40 mm

Total length 355 mm - Weight approx 915 g

Code M 7316 5355	M 7316/5	Each €	1
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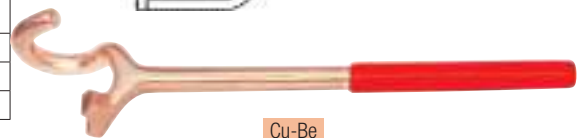
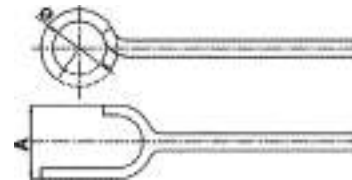


Cu-Be

Type with S opening

In copper-beryllium alloy - Cu-Be

Length	mm	370	430
Code		M 7316 7370	M 7316 7430
M 7316/7	Each €		
Mouth opening A	mm	60	80
∅	mm	36	48
Weight approx.	g	730	1520



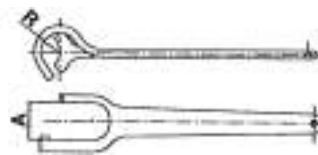
Cu-Be

Sturdy type with high resistance to torsion and bending

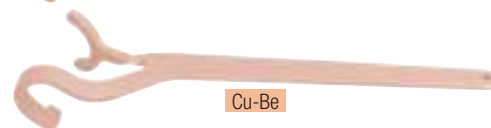
M 7159/9 - In aluminium-copper alloy - Al-Cu

M 7160 - In copper-beryllium alloy - Cu-Be

Overall length	mm	250	300	400	550	750
Code		M 7316 9250	M 7316 9300	M 7316 9400	M 7316 9550	M 7316 9750
M 7316/9	Each €					
Code		M 7317 0250	M 7317 0300	M 7317 0400	M 7317 0550	M 7317 0750
M 7317	Each €					
Dimension A	mm	25÷80	50÷15	125÷150	250÷400	350÷900
Dimension R	mm	15	20	20	20	20
Weight M7316/9 approx.	g	260	625	1050	1650	2250
Weight M 7317 approx.	g	260	625	1050	1650	2250



Al-Cu



Cu-Be

ABC TOOLS Shotfirer's plier

In copper-beryllium alloy - Cu-Be

Suitable for tightening slow-burning fuses on fire detonators and relays to the detonator fuse

With 20 mm long interchangeable blade, suitable for scoring and cutting fuses

With 2 notches for crimping and hand grip with tapered end

Overall length 185 mm

Code M 7325 0000	M 7325	Each €	1
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Cu-Be

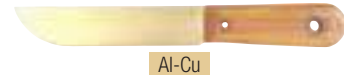
With wooden handle

Long type - Blade length 145 mm - Overall length 250 mm

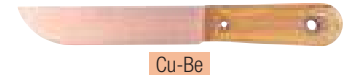
M 7329/9 - In aluminium-copper alloy - Al-Cu - Weight 125 g

M 7330 - In copper-beryllium alloy - Cu-Be - Weight 105 g

Code M 7329 9000	M 7329/9	Each €	 10
Code M 7330 0000	M 7330	Each €	 10



Al-Cu



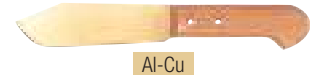
Cu-Be

Short type - Blade length 90 mm - Overall length 210 mm

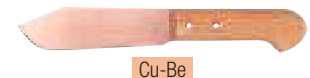
M 7331/9 - In aluminium-copper alloy - Al-Cu - Weight approx. 110 g

M 7332 - In copper-beryllium alloy - Cu-Be - Weight approx. 95 g

Code M 7331 9000	M 7331/9	Each €	 10
Code M 7332 0000	M 7332	Each €	 10



Al-Cu



Cu-Be

ABC TOOLS Spatulas

Type with wooden handle - Overall length 200 mm

M 7332/9 - In aluminium-copper alloy - Al-Cu

M 7333 - In copper-beryllium alloy - Cu-Be

Blade width	mm	25	40	50	65	75
Code		M 7332 9025	M 7332 9040	M 7332 9050	M 7332 9065	M 7332 9075
M 7332/9	Each €					
Code		M 7333 0025	M 7333 0040	M 7333 0050	M 7333 0065	M 7333 0075
M 7333	Each €					
Weight M 7332/9 approx.	g	95	105	110	120	130
Weight M 7333 approx.	g	85	90	95	100	110



Al-Cu



Cu-Be

Type with two-component material non-slip handle

In aluminium-copper alloy - Al-Cu - Overall length 200 mm

Blade width	mm	25	40	50	65	75
Code		M 7333 4025	M 7333 4040	M 7333 4050	M 7333 4065	M 7333 4075
M 7333/4	Each €					
Weight approx.	g	95	105	110	120	130



Al-Cu

Long type with round point and wooden handle

Blade length 230x40 mm - Overall length 350 mm

M 7341/9 - In aluminium-copper alloy - Al-Cu - Weight approx. 110 g

M 7342 - In copper-beryllium alloy - Cu-Be - Weight approx. 120 g

Code M 7341 9000	M 7341/9	Each €	 10
Code M 7342 0000	M 7342	Each €	 10




Al-Cu



Cu-Be




ABC TOOLS Files

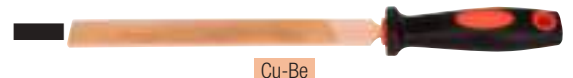
In copper-beryllium alloy - Cu-Be - Complete with thermoplastic resin handle

M 7344/1 - Flat parallel type  - Length 8 inches (200 mm)

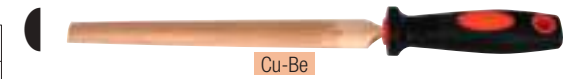
M 7344/2 - Half-round type  - Length 8 inches (200 mm)

M 7344/3 - Round type  - Length 8 inches (200 mm)

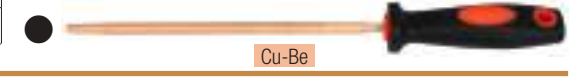
Code M 7344 1008	M 7344/1	Each €	 1
Code M 7344 2008	M 7344/2	Each €	 1
Code M 7344 3008	M 7344/3	Each €	 1



Cu-Be



Cu-Be



Cu-Be

ABC TOOLS Bow for saw

With straight handle - Wing nut blade tensioner

Flat profile 17x7 mm - Square connections 10 mm

Supplied with blade with 12 tooth per inches - Length 12" (300 mm)

Overall length 500 mm

M 7345 - Bow in aluminium-copper alloy and copper-beryllium - Al-Cu + Cu-Be

Weight approx. 620 g

M 7345/1 - In copper-beryllium alloy - Cu-Be - Weight approx. 680 g

Code M 7345 0000	M 7345	Each €	 1
Code M 7345 1000	M 7345/1	Each €	 1



Bow - Al-Cu - Blade Cu-Be

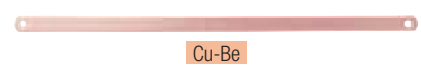


Cu-Be

Spare blade - 12 teeth per inches - Length 12" (300 mm)

In copper-beryllium alloy - Cu-Be - Weight approx. 30 g

Code M 7347 1000	M 7347/1	Each €	 1
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Cu-Be

ABC TOOLS Brush

With brass wire bristles - Straight version, with hand grip
Bristle length 28 mm - Number of rows: 4x16 - Overall length 290 mm - Weight approx 115 g

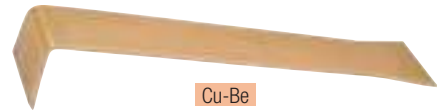
Code M 7352 0000	M 7352	Each €	 1
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ABC TOOLS Bent scraper

In copper-beryllium alloy - Be-Cu

Overall length	mm	250	350
Code		M 7360 0000	M 7360 0350
M 7360	Each €		
Flat section width	mm	39	55
Weight	g	285	555



Cu-Be

ABC TOOLS Scrapers

Wide blade - Without handle

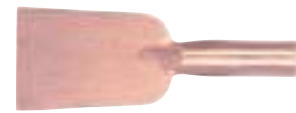
M 7361/9 - In aluminium-copper alloy - Al-Cu

M 7362 - In copper-beryllium alloy - Be-Cu

Blade width	mm	75	100
Code		M 7361 9075	M 7361 9100
M 7361/9	Each €		
Code		M 7362 0075	M 7362 0100
M 7362	Each €		
Weight M 7361/9 approx.	g	500	600
Weight M 7362 approx.	g	580	650



Al-Cu




Cu-Be

ABC TOOLS Pry levers

Hexagonal section - With closed, curved claw

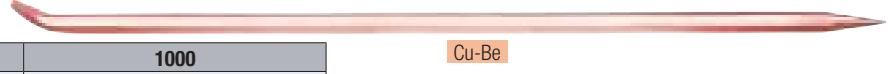
M 7383/9 - In aluminium-copper alloy - Al-Cu

M 7384 - In copper-beryllium alloy - Be-Cu

Overall length	mm	600	1000
Code		M 7383 9600	M 7383 9990
M 7383/9	Each €		
Code		M 7384 0600	M 7384 1000
M 7384	Each €		
Section 	mm	20	22
Nail width	mm	22	24
Weight M7383/9 approx.	kg	1,6	3,2
Weight M 7384 approx.	kg	1,7	3,5



Al-Cu



Cu-Be

ABC TOOLS Pickaxe

In copper-beryllium alloy - Be-Cu

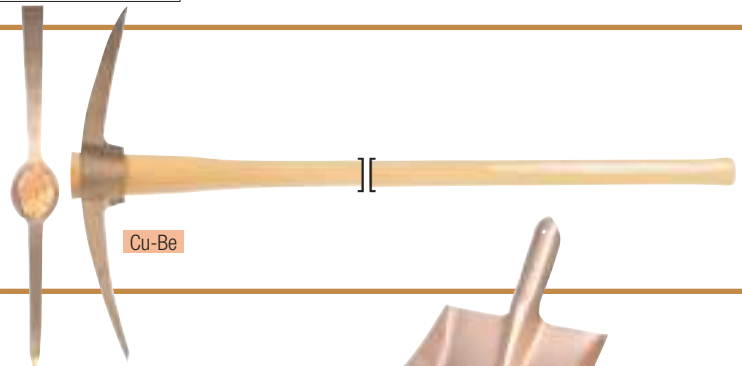
Complete with splinter proof wooden handle

With one pointed and one chisel shaped end

Pick head length 470 mm

Overall length with handle 1050 mm - Weight approx. 2,7 kg

Code M 7386 0000	M 7386	Each €
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Cu-Be

ABC TOOLS Shovel

In copper-beryllium alloy - Be-Cu

Square end

Shovel width 240 mm - Shovel length 420 mm

Supplied without handle

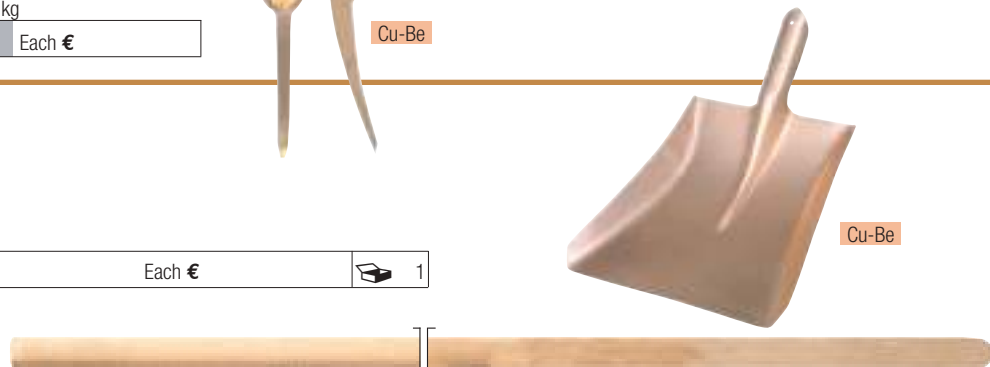
Code M 7389 0000	M 7389	Each €	 1
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Beechwood handle

Overall length 1480 mm

Diameter 38 mm - Opening diameter 33 mm

Code B 4122 2000	B 4122/2	Each €	 20
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Cu-Be

ABC TOOLS Spade

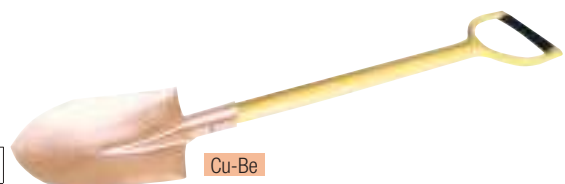
In copper-beryllium alloy - Be-Cu

Round tip

Two-component handle with closed grip

Spade length 240 mm - Overall length 990 mm

Code M 7391 2000	M 7391/2	Each €	 1
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Cu-Be

Certified Atex impact wrenches built to resist in highly explosive environments in order to offer to the users a safe, innovative and efficient product

The range is composed by models suitable for underground environments and for surface applications

Recommended use with a copper-beryllium alloy compound - Cu-Be

Air inlet with phosphate manganese coating treatment - Yellow certified paint

Back air expulsion through handle - Reversible



EN 60079-0

1/2" ■ drive - For SURFACE applications

High-resistance aluminium body, inclined, ergonomic handle - **Double hammer mechanism**

For bolts M10÷M24 - Threaded coupling 1/4" NPT for hoses with internal Ø 13 mm

Working torque 80÷600 Nm - Max tightening torque 800 Nm

Impacts/min 2000 - Max idle rpm 12000

Idle noise 97 dB(A) - Idle vibrations 9,1 m/s² - Weight 2,4 kg

Code M 7425 1000	M 7425/1	Each €	1
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II 2 GD IIB T6
 II 3 G IIB T6

3/4" ■ drive

3-jaw hammer mechanism

For bolts M14÷M24 - Threaded coupling 1/2" BSP for hoses with internal Ø 13 mm

Working torque 350÷910 Nm - Max tightening torque 1700 Nm

Impacts/min 1000 - Max idle rpm 5400

Idle noise 104 dB(A) - Idle vibrations 9,4 m/s²

Version in high-resistance aluminium body - **For SURFACE applications**

Code M 7428 1000	M 7428/1	Each €	1
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Version with zama body - **For UNDERGROUND applications**

Code M 7428 2000	M 7428/2	Each €	1
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II 2 GD IIB T6
 II 3 G IIB T6

I M2 IIB T6
 II 2 GD IIB T6

1" ■ drive

Threaded coupling 1/2" BSP for hoses with internal Ø 13 mm

"Pin-Clutch" hammer mechanism with oil bath lubrication system - Ergonomic inclined handle

For bolts M18÷M39

Working torque 600÷1400 Nm - Max tightening torque 2800 Nm

Impacts/min 750 - Max idle rpm 4200

Idle noise 94 dB(A) - Idle vibrations 4 m/s² - Weight 8,2 kg

High-resistance aluminium body - **For SURFACE applications**

Code M 7430 1000	M 7430/1	Each €	1
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II 2 GD IIB T6
 II 3 G IIB T6

3-jaw hammer mechanism

Increased weight/power ratio

For bolts M18÷M39

Working torque 700÷1600 Nm - Max tightening torque 3300 Nm

Impacts/min 780 - Max idle rpm 3100

Idle noise 100 dB(A) - Idle vibrations 4,8 m/s²

Version with high-resistance aluminium body - Weight 9,1 kg - **For SURFACE applications**

Code M 7430 5000	M 7430/5	Each €	1
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Versioni with zama body - **For UNDERGROUND applications**

Code M 7430 6000	M 7430/6	Each €	1
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II 2 GD IIB T6
 II 3 G IIB T6

I M2 IIB T6
 II 2 GD IIB T6

Straight version with internal start-up lever

3-jaw hammer mechanism

For bolts M18÷M39

Working torque 600÷1700 Nm - Max tightening torque 3200 Nm

Impacts/min 750 - Max idle rpm 3200

Idle noise 101 dB(A) - Idle vibrations 4,9 m/s²

Version with high-resistance aluminium body - Weight 9,5 kg - **For SURFACE applications**

Code M 7431 5000	M 7431/5	Each €	1
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Version with zama body - Weight 12,1 kg - **For underground applications**

Code M 7431 6000	M 7431/6	Each €	1
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II 2 GD IIB T6
 II 3 G IIB T6

I M2 IIB T6
 II 2 GD IIB T6

1 1/2" ■ drive

3-jaw hammer mechanism

For bolts M24÷M56 - Threaded coupling 1/2" BSP for hoses with internal Ø 13 mm

Working torque 1200÷2950 Nm - Max tightening torque 4200 Nm

Impacts/min 650 - Max idle rpm 3200

Idle noise 104 dB(A) - Idle vibrations 12,3 m/s²

Version with high-resistance aluminium body - Weight 14,5 kg - **For SURFACE applications**

Code M 7433 5000	M 7433/5	Each €	1
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Version with zama body - Weight 17,8 kg - **For UNDERGROUND applications**

Code M 7433 6000	M 7433/6	Each €	1
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II 2 GD IIB T6
 II 3 G IIB T6

I M2 IIB T6
 II 2 GD IIB T6

SCANGRIP[®] ATEX anti-explosion work lights

Range of innovative and high performance anti-explosion work lights, built with suitable characteristics to work in absolute safety in environments with a potential explosion risk, in the presence of flammable liquids or gases
Approved and certified in accordance with directive ATEX 2014/34/EU and with directive IECEx for use in hazardous environments:

- Gas zones 1 and 2
- Dust zones 21 and 22

They provide intense and long-lasting light

Mod. UNI EX

Rechargeable **COB LED torch and work lamp, with Ultra High CRI+ COB LED with 2 levels of intensity** and charging station - Robust body, suitable for very humid and dirty environments, with comfortable and ergonomic handle

Main light: 1) 150 lumen - 190 lux at 0,5 m
2) 290 lumen - 380 lux at 0,5 m
Operating time approx. 6 h / 3 h (step 1 / 2)

SPOT SMD LED light: 95 lumen - 350 lux at 0,5 m - Operating time approx. 3 h
Lithium iron phosphate battery, 3,2 V (2800 mAh) - Charging time about 4 hours
Operating temperature -20° ÷ +45°C

With battery charge indicator on the front, joint to tilt the lamp up to 180°, magnet, and swivelling hook
Provided with charger with USB port and USB cable
Dimensions 70x220x39 mm - Weight 415 g

Code N 9133 3000	N 9133/3	Each €		1
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Type with sturdy die-cast aluminium body, slim design with hard shockproof rubber profile

Ideal for inspecting large surfaces and for lighting a specific area

Power supply by rechargeable battery or mains power

Mod. NOVA -EX

COB LED with 2 levels of intensity: 1) 1000 lumen - 1600 lux at 0,5 m
2) 2000 lumen - 3200 lux at 0,5 m

Operating temperature -20 °C to +45 °C

Provided with **10 m power cable** for power supply from 100-240V AC 50/-60Hz mains with Schuko plug

With built in carry handle and rear support for positioning the lamp at the desired angle, also usable as a hook or for fastening directly to the tripod

Dimensions 271x266x111 mm - Weight 4 Kg

Code N 9135 1000	N 9135/1	Each €		1
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Mod. NOVA -EX R

COB LED with 2 levels of intensity: 1) 750 lumen - 1200 lux at 0,5 m
2) 1500 lumen - 2400 lux at 0,5 m

operating time approx. 2 h / 4 h (step 1 / 2)

Rechargeable Lithium-iron-phosphate battery, 19,2 V (1400 mAh) - Charging time about 2 h

Operating temperature -20 °C ÷ +45 °C

Provided with 5 m power cable for power supply from 100-240V AC 50/-60Hz mains with Schuko plug

With built in carry handle and rear support for positioning the lamp at the desired angle, also usable as a hook or for fastening directly to the tripod

Dimensions 271x266x123 mm - Weight 4,3 Kg

Code N 9135 6000	N 9135/6	Each €		1
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Accessories for ATEX anti-explosion work lights

Tripod - Mod. TRIPOD EX

For fixed positioning

Extendible from 1,35 m to 3 m

Maximum load 10 Kg

Provided without arms

Closed dimensions 140x130x1080 mm - Weight 6 Kg

Code N 9139 1000	N 9139/1	Each €		1
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Magnetic support - Mod. Magnetic Bracket EX

Suitable for positioning NOVA -EX and NOVA -EX R lights on magnetic surfaces

Bracket with 2 magnets and **holding force of 10 Kg**

With safe release pin for installation without the risk of accidentally dropping the light, and to adjust the angle

Weight 900 g

Code N 9139 7000	N 9139/7	Each €		1
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Support for scaffolding and shelving - Mod. Bracket EX

Suitable for positioning NOVA -EX and NOVA -EX R lights on magnetic surfaces on scaffolding or supports with Ø 40-50 mm

Makes it possible to adjust the angle of the light

Weight 900 g

Code N 9139 8000	N 9139/8	Each €		1
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Professional models, explosion-proof and ATEX certified

Particularly suitable for inspection and maintenance work

With body in synthetic resin, shockproof and waterproof

Mod. UK 2 AAA ELED Pen I

Waterproof to a depth of 3 m

Switch on/off through rotating ring

Luminous flux 35 lm - Luminous flux max length 64 m

With 2 alkaline batteries AAA type LR 3 (approx. operation time 3h)

Pocket clip - Overall length 135 mm - Weight 102 g

Code N 9098 1100	N 9098/11	Each €		1
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UK 4AA ES Xenon - With Xenon light

Can be immersed in water up to 3 m

On/off button

Luminous flux 38 lm - Luminous flux max length 95 m

With 2 alkaline batteries type AAA LR6 (approx. operation time 4-5h)

Eyelet for attaching to the helmet with elastic band - Overall length 155 mm - Weight 156 g

Code N 9098 2000	N 9098/2	Each €		1
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Mod. UK 2AA ELED Z2

With high luminosity and long life LED

LED with 2 levels of intensity:

- 1) 10 Lumen (operation time approx. 40h)
- 2) 100 Lumen (operation time approx. 10 h)

Waterproof to a depth of 3 m

ON/OFF button

Equipped with **safety valve to release hydrogen vapour** that can be developed by the batteries in extreme conditions of prolonged use

With loops for elastics for fastening to helmet

Complete with 2 Alkaline batteries AA LR03 (included)

Overall length 108 mm - Weight 96 g

Code N 9098 3300	N 9098/33	Each €		1
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UK 4AA eLED ZOOM

Very bright and long lasting LED, with double-element projection system

Zoom function for broaden or shrink the light beam

Can be immersed in water up to 3 m

On/off button

Supplied with **safety valve for releasing hydrogen vapours** which may develop in batteries in extreme conditions when used for long periods

Luminous flux 77 lm + Luminous flux max length 100 m

With 2 alkaline batteries type AAA LR6 (approx. operation time 4 h)

Eyelet for attaching to the helmet with elastic band - Overall length 170 mm - Weight 176 g

Code N 9098 4000	N 9098/4	Each €		1
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Mod. UK SUREFOOT

Very high luminosity and long life LED

Waterproof to a depth of 3 m

ON/OFF button

With 1 front and 1 side LEDs to illuminate the walking zone

Luminous flux 200 lumen (170 lm + 30 lm) (operation about 6,5 h)

Max length of light beam 192 m

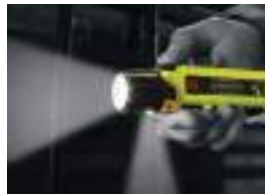
Equipped with **safety valve to release hydrogen** that may develop from the batteries in extreme conditions of prolonged use

Works with 4 Alkaline batteries AA LR6 (included)

With loop for helmet elastic

Overall length 152 mm - Weight 154 g

Code N 9098 7200	N 9098/72	Each €		1
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Mod. UK 4AA ELED RFL

Certified according to ATEX ZONE 0

Waterproof to a depth of 3 m

With 1 **high luminosity white LED: 225 lm**

Max length of light beam 192 m

Works with 4 Alkaline batteries AA LR03 (included) - Operation about 6,5h

ON/OFF button

With loop for helmet elastic

Overall length 158 mm - Weight 160 g

Code N 9098 7500	N 9098/75	Each €		1
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LED lamp

IP 67



Zona 1 ATEX 0174X
II 2G Ex ib IIB T4
II 2D Ex ib IIC T60°C



XENON lamp

IP 67



Zone 1 SEV 08 ATEX 0164
II 2G Ex e ib IIC T4
II 2D Ex ibD 21 T98°C



LED lamp

IP 67



Zona 2
II 3G ec ic IIB T5
II 3D ic IIB T99°C



LED lamp

IP 67



Zona 1
II 2G Ex e ib IIC T4
II 2D Ex ibD 21 T98°C

Con lampada a LED



2ª LED lamp to illuminate the walking zone

IP 67



CL I, DIV 1, GP A, B, C, D T4
CL II, DIV 1 GP E, F, G
CL III, DIV 1 I Ex ia
-20<Ta<+40°C



IP 67



CL I, DIV 1, GP A,B,C,D T4
CL II, DIV 1 GP E,F,G
CL III, DIV 1 Ex ia
-20 II 1G Ex ia op is IIC T4 Ga
II 1D Ex ia op is IIC T75°C Da
Zone 0, 1, 2, 20, 21, 22

Professional models, explosion-proof and ATEX certified

Particularly suitable for inspection and maintenance work

With body in synthetic resin, shockproof and waterproof

Mod. 4AA ELED

Resistant to chemical products like acetone, battery acid, brake fluid, Diesel fuel, ethanol, coolant, petrol, grease, hydrochloric acid, hydraulic fluid, butanone

Luminous flux 180 lm - Operating time 8h

ON/OFF button

Waterproof to a depth of 3 m

With safety valve for releasing hydrogen vapours which may develop in batteries

Protected against dust and liquid infiltration - Does not conduct electricity

Works with 4 Alkaline batteries AA LR6 1,5 V (included)

Length 160 mm - Weight 158 g

With loop for helmet elastics using designated hook N 9098/5

Code N 9098 4300	N 9098/43	Each €	 1
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RESISTANT TO CHEMICAL PRODUCTS



IP 67



Zone 2
II 3G ec IIb T4
II 3D IIIB T 132°C

Mod. UK 3AAA e LED VIZION I

Led headlamp with removable lamp module

With light flow in 3 different modes: concentrated, diffused and diffused in red, and spotlight with reduced height and minimum dimensions, yet very efficient (CPO)

Suitable for attaching to protective helmets, caps etc.

Can be immersed in water up to 10 m and resists low temperatures

On/off side button

With **TRS system (Thermal Recovery System)** to retrieve the heat produced by LEDs

and to transmit it to batteries, extending their lifespan and making the light beam more efficient

Luminous flux 19/42 lm - Luminous flux max length with spot/diffuse beam pattern 60/39 m

With 2 1,5V AAA alkaline batteries (approx. operating time direct/diffuse light 1,5-12h)

Supplied with non-allergic fabric

Overall length 74 mm - Weight 110 g

Code N 9098 8000	N 9098/8	Each €	 1
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IP 67



SEV 08 ATEX 0163 X
Zona 1
II 2G Ex ib IIC T4
II 2D Ex ibD 21 T55°C



LED lamp

Light flow in 3 different modes:

1) concentrated, 2) diffused, 3) diffused in red

Mod. UK VIZION Z3

LED headlamp with extractable light module

Resistant to chemical products like acetone, battery acid, brake fluid, Diesel fuel, ethanol, coolant, petrol, grease, hydrochloric acid, hydraulic fluid, butanone

With light flow in 3 different modes: concentrated, diffused and diffused in red, and spotlight with reduced height and minimum dimensions, yet very efficient (CPO)

Suitable for use on protective helmets, hats, etc.

Waterproof to a depth of 3 m

ON/OFF button on the back

Electrically non-conductive

LED with 3 intensity settings: 1) 210 lm (operating time approx. 3,5 h)
2) 110 lm (operating time approx. 6,5 h)
3) 40 lm (operating time approx. 32 h)

Complete with 3 AAA Alkaline batteries (included)

Complete with adhesive support for helmets N 9098/81

Overall length 74 mm - Weight 110 g

Code N 9098 8300	N 9098/83	Each €	 1
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RESISTANT TO CHEMICAL PRODUCTS



IP 67

LED lamp

Light flow in 3 different modes:

1) concentrated, 2) diffused, 3) diffused in red

Accessories for flashlights

Hook for flashlights N 9098/2 and N 9098/72

In syntetic resin - For fixing the flashlights to caps, protective helmets, etc.

Suitable for attaching to the helmet M 3462

Code N 9098 5000	N 9098/5	Each €	 1
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Adhesive support

To be applied to the front of protective helmets

Quick release with one hand

Code N 9098 8100	N 9098/81	Each €	 1
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Rubber elastic band

Suitable for application to protective helmets, hats, etc.

Suitable for torch N 9098/8 and N 9098/83

Code N 9098 8110	N 9098/811	Each €	 1
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►felo Screwdrivers

Series 400 **ERGONIC**® - Stainless steel blade - INOX


Two-component handle with highly flexible synthetic resin cells located under the coating of the soft elastomer handle which is completely covered and has excellent resistance to scratches and acids in addition to being pleasant to the touch

For slotted screws 

Blade length	mm	100	100
Code		A 1439 1100	A 1439 1150
A 1439/1	Each €		
Blade dimension	mm	3,0x0,5	3,0x0,5
Overall length	mm	170	170



For "PHILLIPS" screws 

Tip DIN	2		
Code	A 1476 1002		
A 1476/1	Each €		
For screws Ø	mm	3,1÷5,2	
Blade dimensions	mm	 6,35x100	
Overall length	mm	200	




For "POZIDRIV" screws 

Tip	2		
Code	A 1480 9002		
A 1480/9	Each €		
For screws Ø	mm	3,1÷5,2	
Blade dimensions	mm	6,0x100	
Overall length	mm	205	



For "TORX" screws 


Size «TORX»	20	25
Code	A 1487 4820	A 1487 4825
A 1487/48	Each €	
For screws	M 4 and 5	M 4,5 and 5
	3,86	4,43
Blade length	mm	100
Overall length	mm	200



Screwdriver set

With 6 screwdrivers     with stainless steel blade - INOX

2 screwdrivers for slotted screws  4,0x100 - 6,5x150 mm

1 screwdriver for PHILLIPS® screws  Tip DIN 2

1 screwdriver for POZIDRIV® screws  Tip 2

2 screwdriver for TORX® screws  Tx20 - Tx25

In cardboard box, with contents on display

Code A 1486 9000	A 1486/9	Each €	 1
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ABC TOOLS Screwdriver bits

In stainless steel, they provide protection against the formation of rust, oxidation or corrosion that may form on screws or other components, increasing lifespan and resistance to wear

For hexagon socket screws 


Length 25 mm

For hexagon screws 	mm	4	5	8
Code		A 1577 2704	A 1577 2705	A 1577 2708
A 1577/27 - INOX	Each €			



For «TORX» screws 

Length 25 mm



For «TORX» screws 	mm	10	15	20	25	30	40
Code	A 1577	3510	3515	3520	3525	3530	3540
A 1577/35 - INOX	Each €						



Set of bits for «TORX» screws 

With 7 tools

6 bits for «TORX» screws  T10 - T15 - T20 - T25 - T30 - T40

1 magnetic bit holder A 1589/4 gr. 58 with  1/4 drive -  drive E 6,3

In plastic case

Code A 1593 4300	A 1593/43	INOX	Each €	 10
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STAINLESS STEEL

ABC TOOLS Combination wrenches - Short version

In stainless steel - Narrow heads
With an open end and a box-end bent at 15°

Metric sizes - DIN 3113

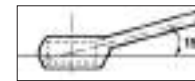
Opening \varnothing	mm	6	8	10	11	12	13
Code	A 2937 ...	5006	5008	5010	5011	5012	5013
A 2937/5	Each €						
Overall length	mm	100	120	140	150	160	170
Opening \varnothing	mm	14	15	16	17	19	
Code	A 2937 ...	5014	5015	5016	5017	5019	
A 2937/5	Each €						
Overall length	mm	180	190	200	210	230	

Set of wrenches in cardboard box

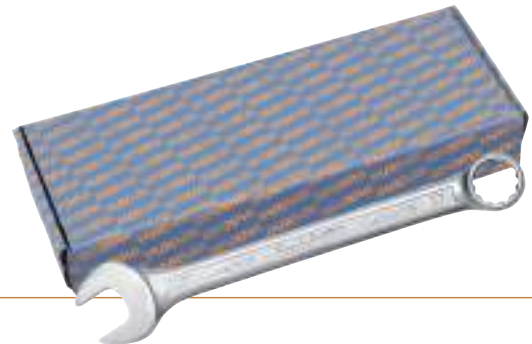
With 11 wrenches (6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 17 - 19 - 22 mm)

Code A 2937 5110	A 2937/511	Each €	 1
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STAINLESS STEEL



Offset ring



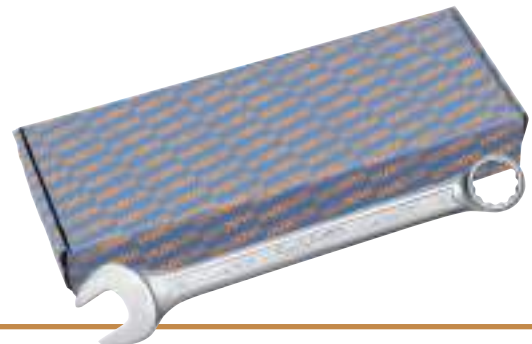
AMERICAN SIZES

Opening \varnothing	inches	1/4	5/16	3/8	7/16	1/2
Code	A 2937 7001	A 2937 7002	A 2937 7003	A 2937 7004	A 2937 7005	
A 2937/7	Each €					
Overall length	mm	100	120	140	150	170
Opening \varnothing	inches	9/16	5/8	11/16	3/4	
Code	A 2937 7006	A 2937 7008	A 2937 7009	A 2937 7010		
A 2937/7	Each €					
Overall length	mm	180	200	210	230	

Set of wrenches in cardboard box

With 9 wrenches (inches 1/4 - 5/16 - 3/8 - 7/16 - 1/2 - 9/16 - 5/8 - 11/16 - 3/4)

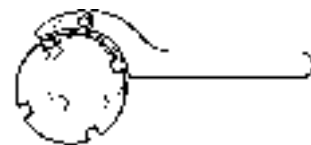
Code A 2937 7900	A 2937/79	Each €	 1
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ABC TOOLS Hook wrenches


In stainless steel
With variable opening
With square nose
For ring nuts DIN 1804

For ring nuts \varnothing	mm	20÷35	35÷60	60÷90	90*÷155	155*÷230
Code	A 3088 3035	A 3088 3060	A 3088 3090	A 3088 3155	A 3088 3230	
A 3088/3 - INOX	Each €					
Overall length	mm	165	210	280	335	460



ABC TOOLS Ballpoint L-wrenches \odot

In stainless steel
With a ballpoint end to allow use in tight spaces up to 25° angle
Long version

For screws with \odot	mm	1,5	2	2,5	3	4	5	6	8	10
Code	A 3109 ...	4015	4002	4025	4003	4004	4005	4006	4008	4010
A 3109/4	Each €									
Length L1 x L2	mm	91x15	102x18	114x20	129x23	144x29	165x33	186x38	208x44	234x50
	pcs.	25	25	25	25	25	25	25	10	10



Set of ballpoint male hexagonal wrenches \odot

With 9 wrenches A 3109/4 1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm
On plastic holder

Code A 3109 7609	A 3109/76	Each €	 4
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HAZET Set of socket wrenches

1/4" drive - In High-Grade stainless steel

Safety:

- max torque load up to 20% higher than HAZET standards;
- safer applications / reduction of risk of injury

High quality:

- Despite having the same hardness, High-Grade stainless steel wear resistance is up to 3 times higher than standard materials (31 CrV 3) and longer life

Environmentally friendly:

- greener production with no electrolytic chrome coating;
- no chemical / electrolytic coating means no allergic reaction;
- longer service life than comparable products (stainless steel instead of electrolytic coating);
- weather-proof; also suited for outdoor use

Consisting of 24 tools

- 13 hexagonal sockets 1/4" mm 4-4,5-5-5,5-6-7-8-9-10-11-12-13-14 - Mod. 850X
- 5 screwdriver sockets for hexagon socket screws 1/4" 3 - 4 - 5 - 6 - 8 mm - Mod. 8501X
- 1 reversible ratchet, length 115 mm - Mod. 863X
- 1 "T" lever with sliding coupling, length 115 mm - Mod. 865X
- 1 socket holder with handle, length 135 mm - Mod. 866X
- 1 extension, length 50 mm - Mod. 867X-2
- 1 extension, length 150 mm - Mod. 868X
- 1 universal joint, length 36,5 mm - Mod. 869X

In shock-resistant synthetic resin box with foam insert

Code A 3124 3000	A 3124/3	Each €	 1
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STAINLESS STEEL

1/4" 6,3 mm



LxDxh 187x125x39 mm

HAZET Sockets

1/4" drive - In High-Grade stainless steel

For nuts 1/4" mm	4	4,5	5	5,5	6	7	8
Code A 3125	1004	1045	1005	1055	1006	1007	1008
A 3125/1	Each €						
Overall length mm	25	25	25	25	25	25	25
For nuts 1/4" mm	9	10	11	12	13	14	
Code A 3125	1009	1010	1011	1012	1013	1014	
A 3125/1	Each €						
Overall length mm	25	25	25	25	25	25	

 pcs. 10



HAZET Sockets accessories

1/4" drive - In High-Grade stainless steel

Reversible ratchet with lever

In stainless steel - Overall length 115 mm

Code A 3126 1000	A 3126/1	Each €	 5
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"T" lever with sliding coupling

Overall length 115 mm

Code A 3126 5000	A 3126/5	Each €	 10
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Extensions - 10 pcs.

Overall length mm	50	150
Code	A 3126 6050	A 3126 6150
A 3126/6	Each €	

Spinner handle

Overall length 134 mm

Code A 3126 7000	A 3126/7	Each €	 5
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Universal joint


Overall length 36,5 mm

Code A 3126 9000	A 3126/9	Each €	 10
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HAZET Screwdrivers sockets

1/4" drive - In High-Grade stainless steel

For hexagon socket screws 1/4" - Overall length 28 mm -  pcs. 10

For screws with 1/4" mm	3	4	5	6	8
Code	A 3127 1003	A 3127 1004	A 3127 1005	A 3127 1006	A 3127 1008
A 3127/1	Each €				




In stainless steel

Type for typographers with knurled tips - Polished finish
With rear spike
Overall length 150 mm

Code B 1601 0000	B 1601	Each €	 10
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Type with straight rounded knurled tips - Polished finish
Gr. 130 and 150 with guide pin

Overall length	mm	130	150	160	250	300
Code		B 1603 0130	B 1603 0150	B 1603 0160	B 1603 0250	B 1603 0300
B 1603	Each €					
	pcs.	10	10	10	10	10

STAINLESS STEEL




300 mm



150 mm

KNIPLEX Electronics cutters - "Super-Knips"

In stainless steel - Polished version - 3 - DIN ISO 9654
Hardened cutting edges with hardness HRc 54
Handles coated with soft thermoplastic resin - With spring 
Shape suitable for prolonged use without making the hand tired
Overall length 125 mm - Weight 35 g




Straight, without wire catcher - Flush cut

It cuts low-resistance \varnothing 1,6 mm - medium-resistance \varnothing 1,0 mm wires

B 1798/8 - "Standard" version - Very thick, red/blue two component handles

B 1798/81 - "ESD" version - Dissipative - Very thick, black/gray two component handles

Code B 1798 8000	B 1798/8	Each €	 6
Code B 1798 8100	B 1798/81	Each €	 6


Straight, without wire catcher with max \varnothing 0,8 mm - Flush cut

It cuts low-resistance \varnothing 1,6 mm - medium-resistance \varnothing 1,0 mm wires

With wire catcher

B 1798/9 - "Standard" version - Very thick, red/blue two component handles

B 1798/91 - "ESD" version - Dissipative - Very thick, black/gray two component handles

Code B 1798 9000	B 1798/9	Each €	 6
Code B 1798 9100	B 1798/91	Each €	 6

Bent at 60°, without wire catcher - Flush cut

For cutting operations with the use of tips only also in hard-to-reach places

It cuts low-resistance wires \varnothing 1,0 mm - medium-resistance wires \varnothing 0,6 mm

«Standard» version - Very thick, red/blue two-component handles

Code B 1798 1000	B 1798/10	Each €	 6
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Shape 0

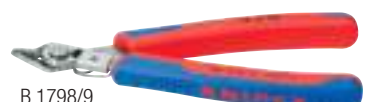


B 1798/8



B 1798/81

Shape 1

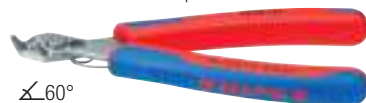


B 1798/9



B 1798/91


Shape 2



\sphericalangle 60°

Cable shears

With stainless steel cutting edges - INOX

Two-component handles - With spring  and closing lever

For electrical cables (aluminium and copper) with 24 mm² section

Opening for cables max \varnothing 10 mm

Overall length 160 mm

Code B 2144 0160	B 2144	Each €	 5
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Electric cables



ABC TOOLS Pocket knife

With stainless steel blade

Folding, with blade liner lock

Ergonomic and comfortable rubber grip

Length: open 200 mm - closed 120 mm - Blade length 70 mm

Provided with nylon sheath with belt loop

Code B 2173 1000	B 2173/1	Each €	 12
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INOX blade

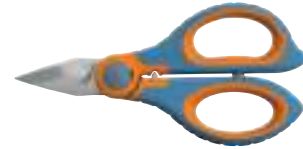
ABC TOOLS Electrician's scissors

With stainless steel blades
Handles in two-component plastic material

Large ergonomic handle suitable for applying high cutting forces, and also for use with work gloves
Large wire stripping notch on either side of the blades, suitable for cutting thick cables (max. 70 mm²)
 With one **micro serrated blade and insert for crimping terminals up to 6 mm²**
 Provided with plastic belt clip
 Overall length 160 mm

Code B 2183 7000	B 2183/7	Each €	 12
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STAINLESS STEEL



Other scissors with stainless steel blades → ABC Catalogue n° 54 - B 5 page 192

ABC TOOLS Multi-purpose cutters

Blades for very high cutting capacity in stainless steel - INOX

Hardness 60 HRc
 Suitable for cutting paper, cardboard, sheet metal, rubber, plastic, flowers, for gardening, etc.
 With spiral spring  and locking latch
 One blade with wire stripped notch and micro-teeth
 Handles with ergonomic shape, coated in plastic material
 Blade length 42 mm - Overall length 185 mm - In hangable blister pack

Code C 3714 5000	C 3714/5	Each €	 12
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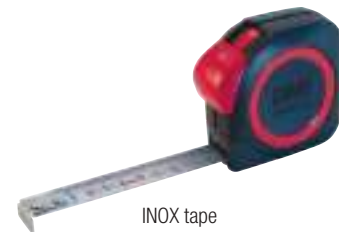
BMI Measuring tapes

With stainless steel tape (V2A)

Particularly suitable for industrial use, in the presence of saline solutions, etc.
 Manufactured according to 73/362/CEE European standards
 Indicated prices include inspection and punching
 With **locking button**: the tape can be locked outside of its casing in any point, and then wound up again using the button.

Tape length	m	2	3	5*
Code	H 5083	2202	2203	2205
H 5083/22	Each €			
Tape width	mm	13	13	16

* With wriststrap



INOX tape

BMI Wheel measuring tape with handle

Grey stainless steel tape, 13 mm thick, with end-of-length protection
 Belt markings in cm and inches on either face - Class II ($\pm 2,3$ mm/10 m)
 Manufactured according to 2014/32/CEE European standards
 Suitable for petroleum applications, for precisely measuring the depth of wells, tanks, cylinders, containers, etc.
 The markings start after 10 cm from the steel end ring
 With aluminium frame and ergonomic synthetic resin handle
 Folding and reversible crank to also allow for left-hand use (patented)
 With brass probe $\varnothing \times L$ 24x80 mm, weight 0,3 Kg, marked on both sides in mm and inches

Tape length 30 m

Code H 5140 1030	H 5140/1	Each €	 1
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Spare tapes for metric wheels H 5140 and H 5140/1 - Without probe

Code H 5140 5000	H 5140/5	Stainless steel	Each €	 1
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Brass probe for all types of metric wheels (excluding those with fiberglass tape)

With mm/inches graduation on both sides - Carabine hook attachment
 Dimensions $\varnothing \times L$ 24x89 mm - Weight 0,3 kg

Code H 5140 2000	H 5140/2	Each €	 1
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Rigid graduated rulers → ABC Catalogue n° 54 - H 5 page 662 H 5


Flexible graduated rulers → ABC Catalogue n° 54 - H 5 page 663

ABC TOOLS Carabiners

In stainless steel AISI 316 - INOX
With internal spring and toothed closing - DIN 5299

Tested version, marked with load capacity

Safety locking device, patented

Length	mm	50	60	80	100	120
Code	L 2197	4050	4060	4080	4100	4120
L 2197/4 - INOX	Each €					
Breaking load		3,5 kN	5 kN	15 kN	22 kN	28 kN
Ø round bar "A"	mm	5	6	8	10	11
Head housing "C"	mm	8	8,5	12	13	17
Gate "E"	mm	11	14	17	18	26
	pcs.	50	50	25	25	15

STAINLESS STEEL



ABC TOOLS Turnbuckles

In stainless steel AISI 316 - INOX

Type with internal spring and toothed closure

Threading	M	5	6	8	10	12
Code	L 2222 2005	L 2222 2006	L 2222 2008	L 2222 2010	L 2222 2012	
L 2222/2 - INOX	Each €					
Body length	mm	70	90	110	125	140
Capacity	kg	100	150	300	470	650



Type with eyelet and hook

Threading	M	5	6	8	10	12
Code	L 2223 2005	L 2223 2006	L 2223 2008	L 2223 2010	L 2223 2012	
L 2223/2 - INOX	Each €					
Body length	mm	70	90	110	120	140
Capacity	kg	25	45	75	115	150



ABC TOOLS Lifting eye bolts

In stainless steel AISI 316 - INOX

With marking CE

Round eye

Male type

Threading	M	6	8	10	12	16	20
Code	L 2225	3006	3008	3010	3012	3016	3020
L 2225/3 - INOX	Each €						
Vertical capacity	kg	75	140	230	340	700	1200



Female type

Threading	M	6	8	10	12	16	20
Code	L 2226	3006	3008	3010	3012	3016	3020
L 2226/3 - INOX	Each €						
Vertical capacity	kg	75	140	230	340	700	1200

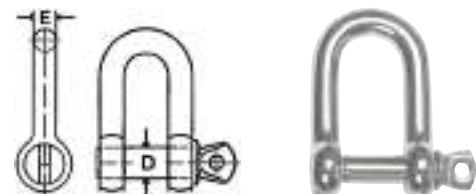


ABC TOOLS D shackles

In stainless steel AISI 316 - INOX

With marking CE

Pin diameter	mm	5*	6*	8	10	12	14	16	20	22	25
Code	L 2236	0005	0006	0008	0010	0012	0014	0016	0020	0022	0025
L 2236- INOX	Each €										
Pin diameter D	inches	3/16	1/4	5/16	3/8	1/2	9/16	5/8	3/4	7/8	1
Internal opening	mm	10	12	12	16	20	22	24	28	32	36
Ø mounting stirrup E	mm	6	8	6	8	10	11	12	16	21	22
Ø mounting stirrup E	inches	1/4	5/16	1/4	5/16	3/8	7/16	1/2	5/8	13/16	7/8
Capacity	kg	60	100	250	400	630	800	1000	1600	2000	2500



* Non marked CE

