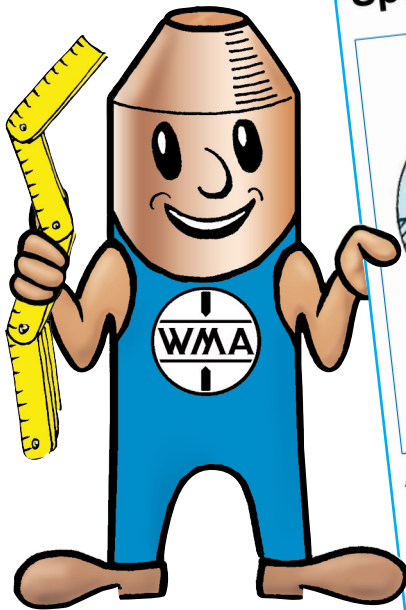


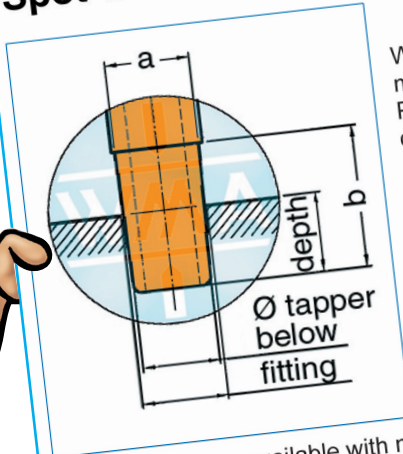


Special electrodes

Version: 2011-01



Spot welding electrodes



We supply spot welding electrodes both as basic models and tailor-made models. Please provide the relevant fitting dimensions when ordering.

On the following sides you will see drawings from the electrodes which are arranged in shapes, somewhere also in drawings 1:1. Please look for the exactly measurements in the tables.

We will also supply electrodes in accordance with your individual requirements, if you provide us with a sample or a drawing.

All electrodes are available with molybdenum, tungsten or CuWo inserts.

We will supply our electrodes with your special cone, for example DIN / Cnomo / RWAA / British-Standards.

Please tell us by ordering the order number. When you don't find a electrode in the tables, please specify when ordering with length, diameter, shape and cone or send us a sample.

Should you be unfamiliar with a particular cone, simply give us the dimensions as stated in the drawing above or send us a sample.

Standard dimensions, which can be ordered from stock:

Fitting	Fitting dimension	Fitting	Fitting dimension
Taper 1:10 / A1	= 8.90	Taper 1:10	= 9.8
Taper 1:10 / A2	= 12.00	Taper 1:10	= 12.7
Taper 1:10 / A3	= 17.80	Taper 1:10	= 15.5
Taper 1:10 / A4	= 24.50	Taper 1:10	= 19.0
Taper 1:10 / KUKA	= 10.50	Taper 1:10	= 24.5
Taper 1:10	= 15.75		
Taper 1:20 / MK0	= 9.045		
Taper 1:20 / MK1	= 12.065		
Taper 1:20 / MK2	= 17.780		
Taper 1:20 / MK3	= 23.820		

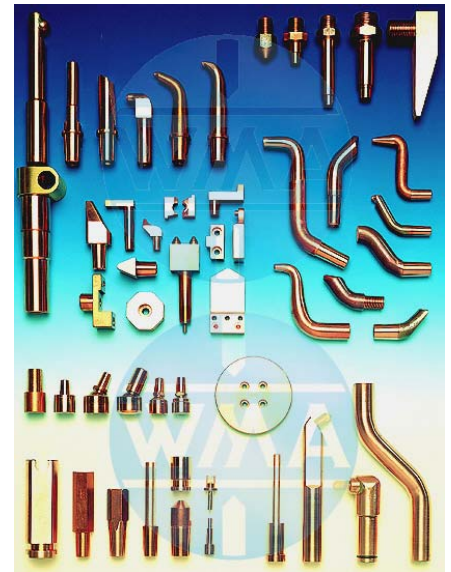
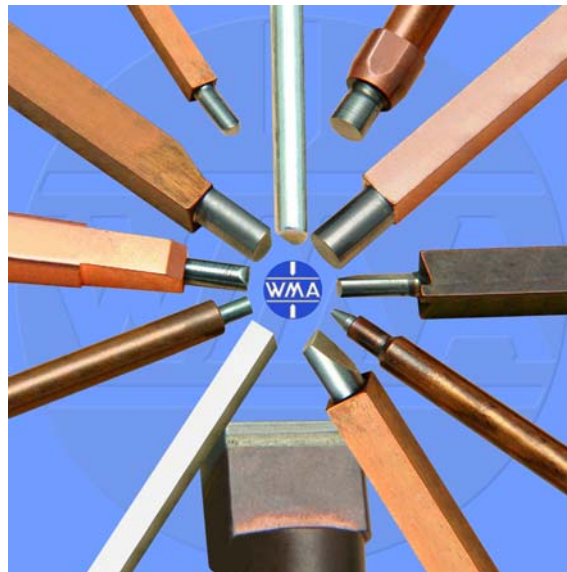
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 info@wma-sb.de or wma-sb@t-online.de, <http://www.wma-sb.de>



Special electrodes

Version: 2011-01



Electrodes with insets and special electrodes with special shapes.

**We manufacture in accordance
with your special requirements.
Please contact our
consulting engineer!**

Phone: +49 7062 9066-0

Fax: +49 7062 9066-20

**e-mails: info@wma-sb.de or
wma-sb@t-online.de**

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Special electrodes-2

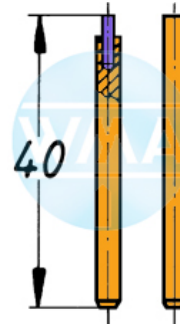


Special electrodes

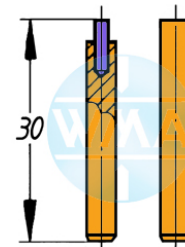
Version: 2011-01

Electrodes for micro welding machines and with insets

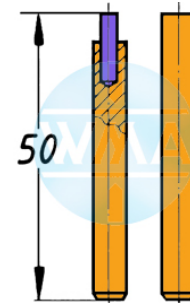
Class	Ø	inset	inset Ø	Article number
0	3 mm			765.90777
2	3 mm			765.83458
3	3 mm			765.90843
6	3 mm	CuW	2 mm	765.83449
7	3 mm	W	2 mm	765.83325
8	3 mm	Mo	2 mm	765.83326



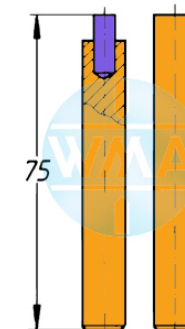
Class	Ø	inset	inset Ø	Article number
0	4 mm			765.90688
2	4 mm			765.90675
6	4 mm	CuW	2 mm	
7	4 mm	W	2 mm	765.83335
8	4 mm	Mo	2 mm	765.83343



Class	Ø	inset	inset Ø	Article number
0	6 mm			765.91116
2	6 mm			765.90674
3	6 mm			765.90673
6	6 mm	CuW	3 mm	765.83470
6	6 mm	CuW	4 mm	765.83324
7	6 mm	W	2 mm	765.83314
7	6 mm	W	3 mm	765.83315
7	6 mm	W	4 mm	765.83319
8	6 mm	Mo	2 mm	765.83304
8	6 mm	Mo	3 mm	765.83305
8	6 mm	Mo	4 mm	765.83306



Class	Ø	inset	inset Ø	Article number
0	10 mm			765.90678
2	10 mm			765.90677
3	10 mm			765.90676
6	10 mm	CuW	6 mm	765.83333
7	10 mm	W	3 mm	765.83338
7	10 mm	W	4 mm	765.83339
7	10 mm	W	6 mm	765.83336
8	10 mm	Mo	3 mm	765.83311
8	10 mm	Mo	4 mm	765.83312
8	10 mm	Mo	6 mm	765.83313



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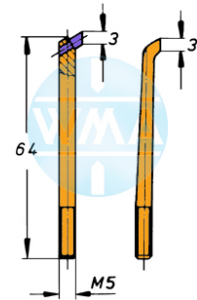


Special electrodes

Version: 2011-01

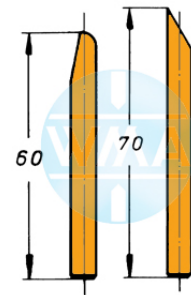
FZ1 electrodes with insets

Class	inset	inset Ø	Article number
0			765.83284
2			765.90680
8	Mo	3 mm	765.83307



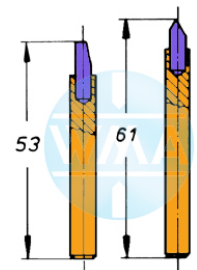
FZA1 electrodes without insets

Class	Ø	inset	inset Ø	Article number
3	6 mm			right: 765.90764
3	6 mm			left: 765.90765



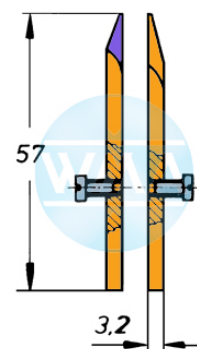
FZA1 electrodes with insets

Class	Ø	inset	inset Ø	Article number
8	6 mm	Mo	4 mm	right: 765.03443
8	6 mm	Mo	4 mm	left: 765.03444



Split welding electrodes

Class	tip	Article number
2	0.4 x 1.0 mm	765.03499
2	0.4 x 0.6 mm	765.03498
2	0.3 x 0.6 mm	765.03497
2	0.3 x 0.4 mm	765.03496
8	Mo-tip 0.4 x 1.0 mm	765.03505
8	Mo-tip 0.4 x 0.6 mm	765.03504
8	Mo-tip 0.3 x 0.4 mm	765.03503
8	Mo-tip 0.1 x 0.3 mm	765.03502



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Special electrodes

Version: 2011-01

Electrodes MK 1, shape Ne 3.7

Class

0

2

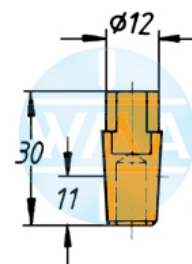
3

Article number

765.83331

765.83274

765.83489



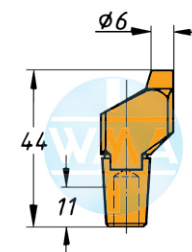
Bend electrodes MK 1, shape Ne 3.10

Class

2

Article number

765.83275



Mushroom electrodes MK 1, shape Ne 3.127

Class

0

2

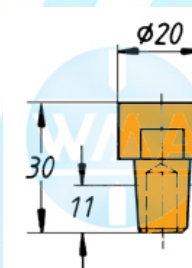
3

Article number

765.90842

765.83280

765.90703



Inset electrodes MK 1, shape Ne 3.128

Class

6

7

7

7

7

7

7

8

8

8

8

8

inset

CuW

W

W

W

W

W

W

Mo

Mo

Mo

Mo

Mo

inset Ø

8 mm

3 mm

4 mm

5 mm

6 mm

8 mm

3 mm

4 mm

5 mm

6 mm

8 mm

Article number

765.83457

765.83472

765.83473

765.83302

765.83425

765.83253

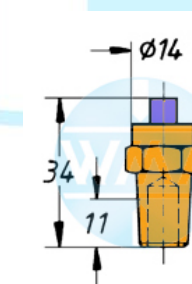
765.83278

765.83323

765.83279

765.83330

765.83332



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Special electrodes-5



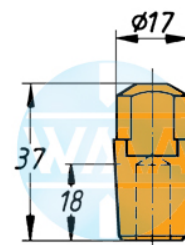
Special electrodes

Version: 2011-01

Electrodes MK 2, shape Ne 3.15

Class
0
2

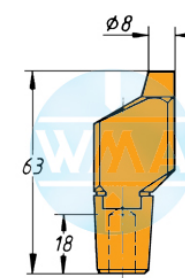
Article number
765.83293
765.83295



Bend electrodes MK 2, shape Ne 3.19

Class
0
2

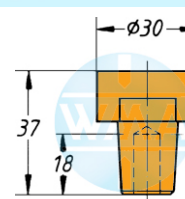
Article number
765.83297
765.83292



Mushroom electrode MK 2, shape Ne 3.152

Class
2

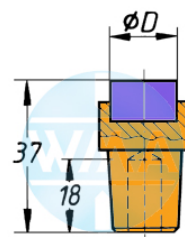
Article number
765.83467



Inset electrodes MK 2

Class	inset	inset Ø
8	Mo	13 mm
8	Mo	16 mm
8	Mo	20 mm

Article number
765.83482
765.83481
765.83480



Electrode Class 0 = from electrolytic copper (ECu) hardened, for welding aluminium and light metal alloys.
Electrode Class 2 = from copper chromium (CuCr, CuCrZr), for welding steel, high-grade steel, nickel alloys, brass, bronze.
Electrode Class 3 = from copper-cobalt-beryllium (CuCoBe), for welding of high-alloy steel, NiCr-alloys, monel.
Electrode Class 6 = from copper-tungsten (CuW, CuWAg), for welding NI-metals with high proportion of copper.
Electrode Class 7 = from tungsten (W), soldered into copper substrate, for welding copper, silver, for resistance hard soldering, hot riveting.
Electrode Class 8 = from molybdenum (Mo), soldered into copper substrate, for welding copper, copper braid, silver.

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Special electrodes-6