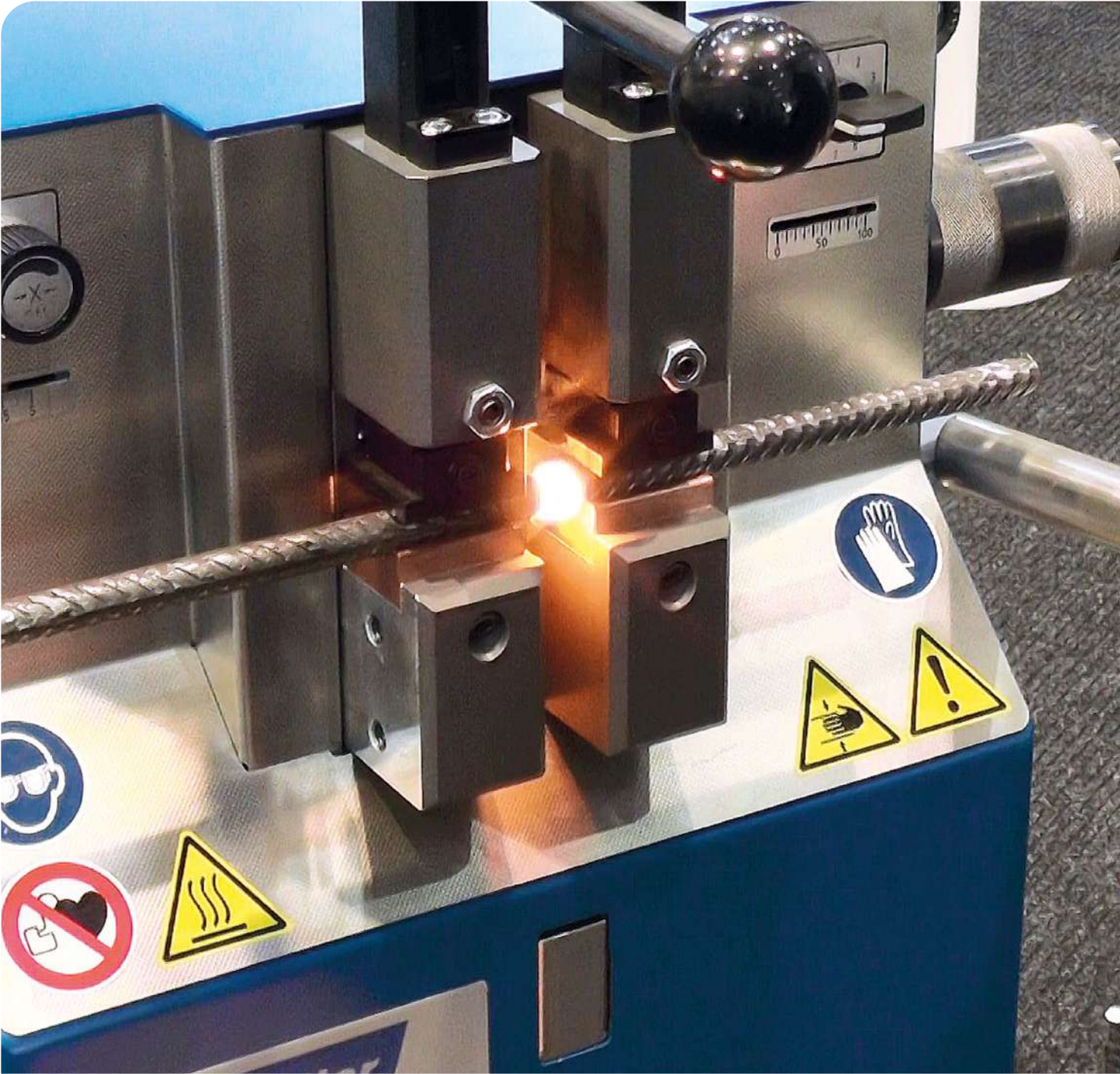


**Wire Butt Welding Device
Type S, E10 and M10**



Type S - Wire butt welding device for wire diameter from 0.3 to 2.5 mm

Fine wire butt welding devices type S are supplied with standard equipment. However, special options are available to suit particular requirements.

Welding Range

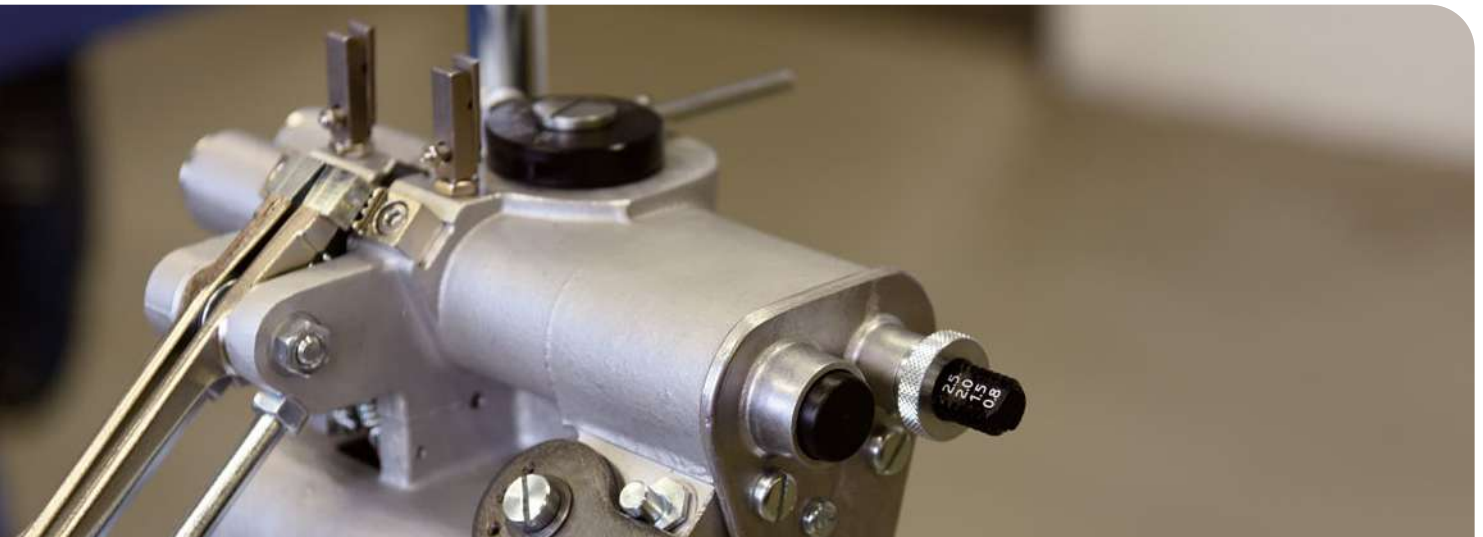
Type		S-1	S-1,5	S-2	S-2,5	SA-1,5	SA-1,8
Material							
Iron, steel, nickel	Ø mm	0,3- 1,0	0,5- 1,5	0,7- 2,0	0,8- 2,5	--	--
copper, brass, bronze, lightmetal	Ø mm	--	--	--	--	0,5- 1,5	0,7- 1,8

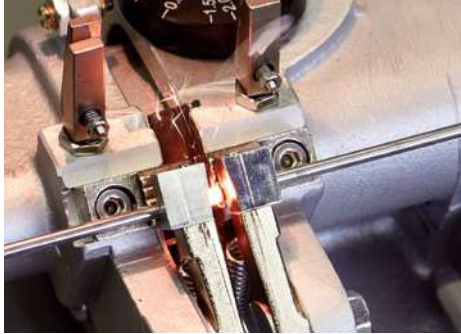
Electric Data

Type		S-1	S-1,5	S-2	S-2,5	SA-1,5	SA-1,8
Rating at 50% duty cycle	kVA	0,3				0,37	
Fuse protection slow act at 110V	A	10				10	
at 230V	A	10				10	
at 400V	A	10				10	

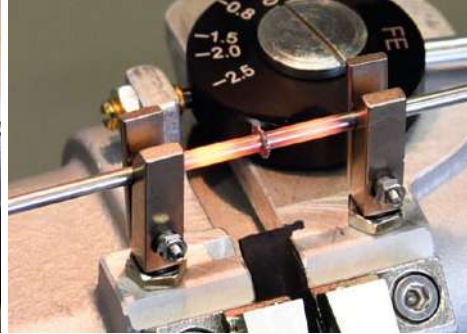
Dimensions and Weights

Type		S-1	S-1,5	S-2	S-2,5	SA-1,5	SA-1,8
(without accessories) L x B x H	mm	200 x 200 x 450					
Net weight	kg	9				11	12





Welding process for wire diameters up to 2.5 mm



Annealing process

The wire butt welding device type S is available in the following versions:

Type	S-1	S-1,5	S-2	S-2,5	SA-1,5	SA-1,8
Operating voltage	Part No.					
110 V - 60Hz	1153170.001	1153171.001	1153172.001	1153173.001	1153174.001	1153175.001
230 V - 50/60Hz	1153170.002	1153171.002	1153172.002	1153173.002	1153174.002	1153175.002
400 V - 50/60Hz	1153170.003	1153171.003	1153172.003	1153173.003	1153174.003	1153175.003

For each version of the type S are the following options available:

Options	Part No.
Device stand type S	002200
Stand with 2 wheels	002220
Trimming arm complete (type S-1 only)	1051149
Annealing extension (always together with 002347)	002346
Clamping jaw (always together with 002346)	002347
Stationary bolt cutter	16.25.207
Transformer KU-M40, 400 V S1.5- special (11.01.816)	1051702.005
Transformer KU-M80, 230 V S1.5- special (11.01.944)	1051702.006
Transformer KU-M80, 400 V S1.5- special (11.01.822)	1051702.007
Transformer KU-M100,400 V S1.5- special (11.01.830)	1051702.009
Spare part set S-1	1054908.001
Spare part set S-1.5	1054908.002
Spare part set S-2	1054908.003
Spare part set S2.5	1054908.004
Spare part set SA1.5	1054908.005
Spare part set SA1.8	1054908.006
Electrode special S-1	1085175.01
Electrode special S-1.5	1085175.02
Electrode special S-2	1085175.03
Electrode special S-2.5	1085175.04
Lower part without control transformer type S	1051142.004

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Video Type S



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Standard version

Option:
Stand with 2 wheels

Type E10 - Wire butt welding device for wire diameter from 1.0 to 8.0 mm

Main features of the E10 type are strong reproducible welding joints in high quality as well as the easy operation and maintenance. Standard version including clamping device for annealing.

Welding Range

Type	E10 - 80	E10 -100	E10 - 240
Material	Wire diameter¹		
Steel unalloyed ²	1,0- 8,0 mm	--	--
Copper (Cu)	--	1,5- 4,0 mm	2,5- 6,0 mm
Light metal (Al)	--	1,5- 6,0 mm	4,0- 7,0 mm

¹ approx. values depending on alloy | ² C-content < 0,2 %, cold-rolled and hot-rolled wire

Electric data

Type	E10 - 80	E10 -100	E10 - 240
Power at 50% duty cycle	0,9 kVA	1,3 kVA	2,2 kVA
Fuse protection (slow act.) depending on operating voltage	10 - 16 A	10 - 16 A	16 - 20 A
Supply lead cross section per phase (mm ²)	Has to be determined by the local electric company. In the instructions are minimal information provided, which are to be regarded as a guide only.		





Wire butt welding with consistent high quality



Option: Grinding attachment

The wire butt welding device type E10 is available in the following versions:

Type	E10 - 80	E10 - 100	E10 - 240
Operating voltage	Part No.		
115 V - 60Hz	1135069.001	--	1135174.001
230 V - 50/60Hz	1135069.002	1135173.001	1135174.002
400 V - 50/60Hz	1135069.003	1135173.002	1135174.003
420 V - 50/60Hz	1135069.004	1135173.003	1135174.004
440 V - 50/60Hz	1135069.005	--	--
480 V - 50/60Hz	1135069.006	--	--

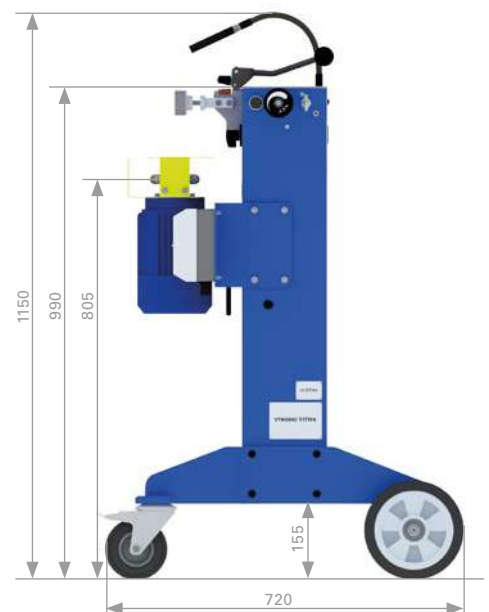
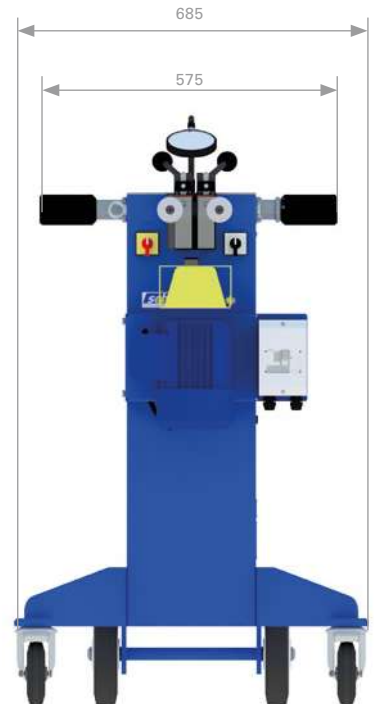
For each version of the E10 types are the following options available:

Options	Part No.
Grinding attachment 115 V - 60Hz	1135070.001
Grinding attachment 230 V - 50/60Hz	1135070.002
Grinding attachment 400 V - 50/60Hz	1135070.003
Grinding attachment 420 V - 50/60Hz	1135070.004
Grinding attachment 440 V - 50/60Hz	1135070.005
Grinding attachment 480 V - 50/60Hz	1135070.006
Wire shear	1133104
Deburring gripper Ø 1,0 - 6,0 mm	009999.001
Deburring gripper Ø 2,0 - 8,0 mm	009999.002
Electrode standard E10 right (4L)	1171484
Electrode standard E10 left (4L)	1171482
Spare part set type E10	1135073

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Video Type E10 / M10



Type M10 - Wire butt welding device for wire diameter from 4.0 to 16.0 mm

Main features of the M10 type are strong reproducible welding joints in high quality, the automatic control of the welding operation, the accurate alignment due to precise parallel guides as well as the easy operation and maintenance.

Welding Range

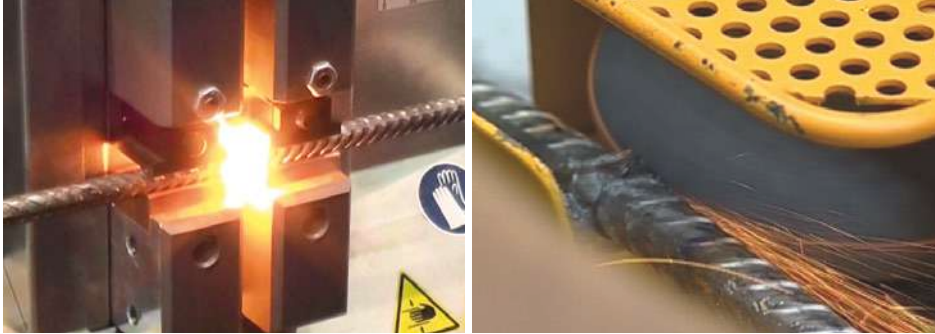
Material	Steel unalloyed *	Copper (Cu)	Brass (Ms)	Light metal (Al)
Wire diameter	4,0- 16,0 mm	4,0- 8,0 mm	4,0- 10,0 mm	5,0- 10,0 mm
Cross section	12,0- 200,0 mm ²	12,0- 50,0 mm ²	12,0- 80,0 mm ²	20,0- 80,0 mm ²

* C-content < 0,2 %, cold-rolled and hot-rolled wire

Electric Data

Power at 50% duty cycle	6,7 kVA			
Operating voltage	230 V - 50/60Hz	400 V - 50/60Hz	440 V - 50/60Hz	480 V - 50/60Hz
Fuse protection (slow act.)	20 A	16 A	16 A	16 A
Phase	1L / N / PE	3L / N / PE	3L / N / PE	3L / N / PE
Supply lead cross section per phase (mm ²)	Has to be determined by the local electric company. In the instructions are minimal information provided, which are to be regarded as a guide only.			





Accurate alignment due to precise parallel guides

Grinding attachment

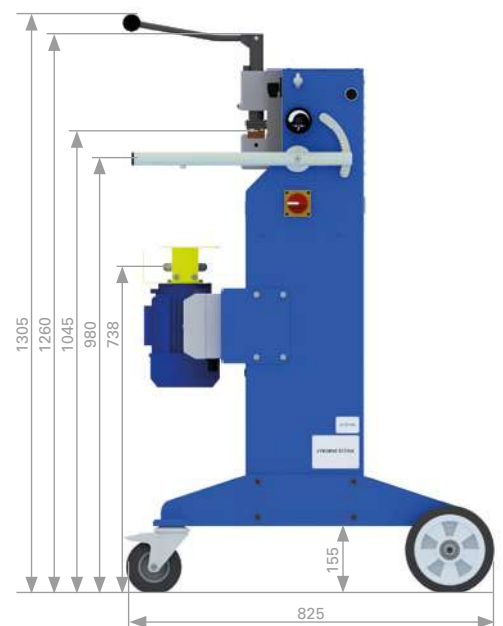
The wire butt welding device type M10 is available in the following versions:

Type	Operating voltage	Part No.
M10	230 V - 50/60Hz	1133096.001
	400 V - 50/60Hz	1133096.002
	440 V - 50/60Hz	1133096.003
	480 V - 50/60Hz	1133096.004

For each version of the M10 types are the following options available:

Options	Part No.
Stand for fix installation	1133102
Grinding attachment 230 V - 50/60Hz	1133103.001
Grinding attachment 400 V - 50/60Hz	1133103.002
Grinding attachment 440 V - 50/60Hz	1133103.003
Grinding attachment 480 V - 50/60Hz	1133103.005
Clamping device for annealing	1133098
Deburring gripper Ø 1.0 - 6.0 mm	009999.001
Deburring gripper Ø 2.0 - 8.0 mm	009999.002
Steel electrodes for Cu welding, 2V-grooves connection	1133106
Electrode standard M10	1135503
Current strap	1133107
Spare part set type M10	1133109

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Video Type E10 / M10



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