

Butt welding machine Model MWD



Competence connects.



Butt welding machine

Model MWD



The Manual – a genuine WEGENER

The WEGENER MWD series is a range of manual welding machines that round off and complement the lower end of the portfolio of products that WEGENER International GmbH can deliver.

As with all WEGENER machines, development focused on the welding process and on the achievement of the best possible welding outcomes. An innovative new feature for manual welding systems is the pneumatic build-up of power during the welding process.

Unlike with a spring-loaded manual welding machine, power can be maintained at a

constant level when using a pneumatic table drive, even if the welding tables move relative to one another while the welding bead is forming.

A pneumatic clamping system was also used for the clamping beams for positioning and fixing the plates to be welded.

As an option, the machine can be equipped with a pneumatic compressor that makes the manual welding machine independent of a supply of compressed air.

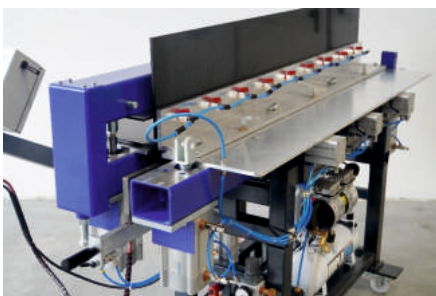
Another option is a 90° angle-welding fixture and a mitre welding jib. With both of these systems, a vacuum system secures and positions the plates for this welding process.

Equipment features

- Compact, manual welding machine for panel widths of 1.0 m, 1.5 m and 2.0 m
- Robust welded structure
- Compact footprint
- Great mobility with standard heavy-duty rollers
- Simple and intuitive operation
- Low maintenance overhead

Options

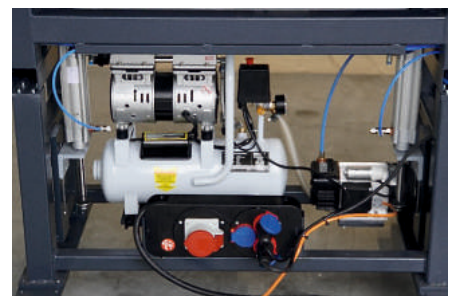
- 90° welding fixture (only in conjunction with a vacuum pump)
- Mitre welding fixture incl. tools for angles of 90°, 60° and 45° (only in conjunction with a vacuum pump)
- Vacuum pump integrated in machine frame, required for 90° welding and mitre welding fixture
- Heating blade with height of 100 mm instead of the standard heating blade required for mitre welding fixture and hollow chamber material
- Pneumatic compressor to supply welding fixture with compressed air, if no compressed air connection is available
- Multiple socket for connect up pneumatic compressor and/or vacuum pump



Optional 90° welding device



Optional mitre welding device



Optional air compressor, vacuum pump, multi-outlet power strip

Technical Data	MWD 101	MWD 151	MWD 201
Machine length (mm):	1,360	1,860	2,360
Machine width (mm):	1,020	1,020	1,020
Machine height (mm):	1,170	1,170	1,170
Total weight approx. (kg):	310	340	370
Optional vacuum pump:	8.0 kg	8.0 kg	8.0 kg
Optional air compressor:	15.0 kg	15.0 kg	15.0 kg
Optional multi-outlet power strip with supply cable:	2.5 kg	2.5 kg	2.5 kg
Optional 90° welding device:	11.0 kg	16.5 kg	22.0 kg
Optional mitre welding device:	26.0 kg	39.0 kg	52.0 kg
Maximum working width:	1,050 mm	1,550 mm	2,050 mm
Table force (6 bar):	3,700 N	4,750 N	4,750 N
Clamping force (6 bar):	8,800 N	8,800 N	8,800 N
Theoretic weldable sheet thickness:			
PE [0,15 N/mm ²]	3 to 20 mm	3 to 20 mm	3 to 15 mm
PP [0,10 N/mm ²]	3 to 30 mm	3 to 30 mm	3 to 20 mm
PVDF [0,10 N/mm ²]	3 to 30 mm	3 to 30 mm	3 to 20 mm
PVC-C bei 6 bar [0,50 N/mm ²]	≤ 6 mm	≤ 6 mm	≤ 4 mm
PVC-U bei 6 bar [0,60 N/mm ²]	≤ 5 mm	≤ 5 mm	≤ 4 mm
Optional weldable sheet thickness for hollow material and/or foam material (taking in account the max. table forces):	60 mm	60 mm	60 mm
Minimum channel cross-section [B x H]:	360 x 190 mm	360 x 190 mm	360 x 190 mm
Minimum cylinder diameter:	Ø 325 mm	Ø 325 mm	Ø 325 mm
Power supply machine with 50 mm high heating sword:	230 V 1/N/PE 50/60 Hz	230 V 1/N/PE 50/60 Hz	230 V 1/N/PE 50/60 Hz
Power supply machine with 100 mm high heating sword:	400 / 230 V 3/N/PE 50/60 Hz	400 / 230 V 3/N/PE 50/60 Hz	400 / 230 V 3/N/PE 50/60 Hz
Power consumption base machine with 50 mm high heating sword:	1.0 kW	1.5 kW	2.0 kW
Power consumption base machine with 100 mm high heating sword:	2.0 kW	3.0 kW	4.0 kW
Increased capacity with optional air compressor:	0.48 kVA	0.48 kVA	0.48 kVA
Increased capacity with optional vacuum pump:	0.35 kVA	0.35 kVA	0.35 kVA
Compressed air connection:	6 bar	6 bar	6 bar
Heating sword base machine with 50 mm height:	20 x 50 mm, Teflon coated, Tmax = 260 °C		
Heating sword base machine with 100 mm height:	20 x 100 mm, Teflon coated, Tmax = 260 °C		
User language:	symbolic	symbolic	symbolic
Documentation language:	D, GB, F, I, NL	D, GB, F, I, NL	D, GB, F, I, NL

A strong connection for your success



The WEGENER machines

- Butt welding machines
- Welding by bending machines
- Foam welding machines



The WEGENER equipment

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- Hot gas welders
- Wedge welders
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