



MPW CNC Multi Production Welder

Technical Data	
Working range	1,250 x 1,050 mm (MPW 1010); 1,250 x 2,250 mm (MPW 2010) (for up to 3 welding heads)
Welding range	M3 to M8, dia. 3 to 8 mm (dia. 10/12/12.7 mm only possible with modification)
Stud length	8 to 40 mm (other lengths on request)
Welding capacity	Up to 23 studs/min (depending on stud welding unit, stud type and positioning of stud)
Traverse speed	40 m/min
Stud feeding	Automatic stud feeding with VBZ (up to 3 VBZ per stud welding head)
Positioning (accuracy) of welded studs	± 0.15 mm for steel and ± 0.2 mm for aluminum (depending on work piece and stud geometry)
Positioning (accuracy) of welding head	0.05 mm
Stud welding head	KAH 412
Max. number of stud welding heads	3 (up to 3 stud lengths per head possible)
Connections	Electrical: 400 V, 16 A (32 A), 50 Hz Pneumatic: 6 bar min./10 bar max./inner hose dia. 6 mm
Motordriven Z-axis	Z = 0 to 115 mm (free programmable because of servo drive technology)
Dimension L x W x H	2,300 x 2,350 x 2,200 mm (MPW 1010); 3,500 x 2,350 x 2,200 mm (MPW 2010)
Order No.	According to project

General Information

Application <ul style="list-style-type: none"> • Stud welding • Simple milling (optional)
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Process variants <ul style="list-style-type: none"> • Tip ignition • Drawn arc welding • Short cycle drawn arc welding

Equipment <ul style="list-style-type: none"> • Graphic user interface (Windows XP) • Easy menu navigation • Continuous path control • CNC-programming according to DIN ISO 66025



- Optimized stud feeding (background feeding)
- Multilingualism
- Free zero point
- Quick change system for stud welding heads
- Fast and easy programming
- Industrial-PC-controlled
- Hard disc with 60 GB memory capacity
- Reweld function
- Flexible connectors for ground clamps
- Automatic calibration of Z axes

Structure

- High positioning accuracy of the unit through rugged design and linear guidance with ball bearings
- Clear welding cable guidance inside the energy chains
- Machine accessibility from all 4 sides through a side-mounted switchboard cabinet behind the Y working range
- Movable operating panel on rollers

Options

- Network interface card
- Modem for remote maintenance
- Flexible fixture concept
- Machine protection cover
- Safety housing for the machine
- Customer specific handling systems
- Single stud feeding PBZ
- Pneumatic clamp

Advantages

Features

- Servo drive ($V_{max} = 40\text{m/min}$)
- Ball screw system
- Up to 8 servo axis
- Very short change-over time

Safety

- Safety equipment according to customer requirement (Light barrier with fence or housing with protective door)

Welding

- Free programmable stroke of stud welding head (0 to 115 mm, optional up to 200 mm)
- High welding rates
- Fully automatic program sequence for welding

Suitable stud welding units

- **CDM 1601 (AT), CDM 2401 (AT), CDM 3201 (AT), ARC 500*, ARC 800*, IT 1001*, SCD 3201**
* modification for ARC-gas-versions is needed

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(Technical data may change)