MPW 1010/2010

Technical Data Sheet





MPW CNC Multi Production Welder

Technical Data

of welded stud

Working range 1,250 x 1,050 mm (MPW 1010); 1,250 x 2,250 mm (MPW 2010)

(maximum working range 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 40 studs/min (depending on stud welding unit, stud type and positioning of stud)

Traverse speed 60 m/min

Stud feeding (up to 3 different stud length per welding head)

Positioning accuracy ± 0.15 mm for mild steel, stainless steel and ± 0.2 mm for aluminum (depending on

4 (up to 3 stud lengths per welding head possible)

work piece and stud geometry)

Positioning and repeat accuracy ± 0.05 mm

Stud welding head KAH 412, alternative KAH 412 LA

Max. number of stud welding

heads

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

- Basic milling operations (optional)
- Special applications like gluing, foaming etc. (on request)

Process variants

- Tip ignition (CD)
- Drawn arc welding (ARC)
- Short cycle drawn arc welding (SC)

Equipment

- Graphic user interface (Windows XP)
- Easy menu navigation
- Continuous path control
- CNC-programming according to DIN ISO 66025
- · Very high welding capacity through intelligent program architecture
- Multilingualism

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- Free zero point
- Quick change system for stud welding heads
- Fast and easy programming through user guided program editor
- Industrial-PC-controlled
- Hard disc with 60 GB memory capacity
- Rewelding function and continuation of the program after stop
- Flexible connectors for ground clamps
- Very short set-up time (a.e. automatic calibration of Z axes)
- Integrated display of cycle time and work piece counter

Structure

- High precision ball screw system
- · 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
- Wiring of machine and switchboard according to latest VDE regulation
- Detailed documentation of mechanical and electrical components

Options

- HBS-CAD with DXF-files converter and network interface card for external programming
- Modem for remote maintenance
- Flexible fixture concept
- Machine protection cover
- Customer specific handling systems
- Single stud feeding PBZ
- Pneumatic clamp
- Work piece down holder
- Spray regulator unit
- Turn table
- ARC welding with 400 V mains

Advantages

Features

- High performance servo motors (Vmax = 48m/min)
- Up to 8 servo axis
- · Very short change-over time
- Free programmable stroke of stud welding head (0 to 115 mm, optional up to 200 mm)

Safety

Safety equipment according to latest and accident prevention regulations light barrier with fence (safety class 4)

Welding

- High welding rates
- Fully automatic program sequence for welding

Suitable stud welding units

CDM 2401 (AT), CDM 3201 (AT), ARC 800, IT 1002, IT 50, IT 90, SCD 3201

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(Technical data may change)