



# **MPW CNC Multi Production Welder**

## **Technical Data**

Working range 49.21" x 41.34" (1,250 x 1,050 mm) MPW 1010;

49.21" x 88.58" (1,250 x 2,250 mm) MPW 2010

(maximum working range for up to 3 welding heads)

#4 to 5/16", dia. #4 to 5/16" (M3 to M8, dia. 3 to 8 mm); Welding range

dia. 3/8" to 1/2" (dia. 10 to 12.7 mm) only possible with modification

Stud length 0.31" to 1.57" (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 196.85'/min (60 m/min)

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

Positioning accuracy  $\pm$  0.0059" ( $\pm$  0.15 mm) for steel and  $\pm$  0.008" ( $\pm$  0.2 mm) for aluminum (depending on

of welded stud work piece and stud geometry)

Positioning and repeat accuracy ± 0.002" (± 0.05 mm)

Stud welding head **KAH 412** 

Max. number of stud welding

heads

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

Connections Electrical: 400 V, 16 A (32 A), 50 Hz

Pneumatic: 6 bar min./10 bar max./inner hose dia. 1/4" (dia. 6 mm)

Motordriven Z-axis Z = 0 to 4.53" (0 to 115 mm) free programmable because of servo drive technology

90.55" x 92.52" x 86.61" (2,300 x 2,350 x 2,200 mm) MPW 1010;

137.80" x 92.52" x 86.61" (3,500 x 2,350 x 2,200 mm) MPW 2010

Order No. **According to project** 

## **General Information**

Dimension L x W x H

# **Application**

- Stud welding
- Simple milling (optional)

# **Process variants**

- Tip ignition
- Drawn arc welding
- Short cycle drawn arc welding

### **Equipment**

- Graphic user interface (Windows XP)
- Easy menu navigation

# MPW 1010/2010

### **Technical Data Sheet**



- 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 (Vmax = 40m/min)
- Ball screw system
- Up to 8 servo axis
- Very short change-over time

# Safety

• Safety equipment according to customer requirement (Light barreer 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

Issue 06/07

(Technical data may change)