

STUD WELDING PRODUCTS, INC

Your Number One Stud



STUD WELDING UNIT Model: MPW 1010/2010

DESCRIPTION

Turnkey stud welding system capable of keeping up with your toughest jobs. The MPW can weld CD, Short arc or drawn arc studs. Its high precision ball screw system paired with a HD table will keep your tolerances in check.

FEATURES	MPW 1010/2010
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
WELDING RANGE	#4 to 5/16", dia. #4 to 5/16" (M3 to M8, dia. 3 to 8 mm); 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) (max. 157.48'/min (48 m/min) per axis)
STUD FEEDING	Automatic stud feeding (up to 3 different stud length per welding head) (not included in delivery)
POSITIONING ACCURACY OF WELDED STUD	± 0.0059" (± 0.15 mm) for steel and ± 0.008" (± 0.2 mm) for aluminum (depending on work piece and stud geometry)
WELDING HEAD	KAH 412 Optional: KAH 412 LA (mechanical length compensation - gap)
MAXIMUM NUMBER OF WELDING HEADS	4 (up to 3 stud lengths per welding head possible)
POWER SUPPLY	Electrical: 400 V, 32 A, 50 Hz Pneumatic: 6 bar min./10 bar max./inner hose dia. 1/4" (dia. 6 mm)
MOTOR DRIVEN Z-AXIS	Z = 0 to 7.87" (0 to 200 mm) free programmable because of servo drive technology
DIMENSIONS	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

Visit our website at www.StudWeldProd.com or email Info@StudWeldProd.com



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FEATURES

- Process variants: Tip ignition (CD) ,Drawn arc welding (ARC) ,Short cycle drawn arc welding (SC)
- Graphic user interface (Windows XP)
- Easy menu navigation
- Continuous path control
- CNC-programming according to DIN 66025
- Very high welding capacity through intelligent program architecture
- Multilingualism
- 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
- Re-welding 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
- Network connection
- 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
- Operating panel
- Detailed documentation of mechanical and electrical components
- Options: HBS-CAD with DXF-files converter and network interface card for external programming, Flexible fixture concept, Machine protection cover (only for MPW 1010), Customer specific handling systems, Single stud feeding PBZ, Pneumatic clamp, Workpiece downholder, Spray regulator unit, Turn table, Swivel stop, HBS Code Reader, HBS Dual Milling Unit, and HBS adjustment set for welding head position
- High performance servo motors ($V_{max} = 48 \text{ m/min}$)
- Up to 8 servo axis
- Very short change-over time
- Free programmable stroke Z-axis (0 to 200 mm)
- Safety equipment according to latest and accident prevention regulations light barrier with fence (safety class 4)
- Suitable Stud Welding Units: CDM 2401, CDM 3201, ARC 800, IT 1002, IT 50, IT 9