



CPW 0604
CNC Production Welder

Technical Data	
Working range	600 x 400 x 120 mm (maximum working range for 1 welding head)
T-slot work plate	800 x 490 mm
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 30 studs/min (depending on stud welding unit, stud type and positioning of stud)
Traverse speed	25 m/min (X-Y), 20 m/min (Z)
Stud feeding	Automatic stud feeding (up to 3 different stud length per welding head)
Positioning accuracy of welded stud	± 0.2 mm
Positioning and repeat accuracy	± 0.05 mm
Stud welding head	KAH 412 Optional: KAH 412 LA (mechanical length compensation - gap), KAH 412 (electronic length compensation - gap and plunge in)
Max. number of stud welding heads	1
Connections	Electrical: 400 V, 16 A, 50 Hz Pneumatic: 6 bar min./10 bar max./inner hose dia. 6 mm
Motordriven Z-axis	Z = 0 to 120 mm (free programmable because of servo drive technology)
Controller	High performance PLC IEC 61131-3
Display	9" Touchscreen
Keyboard	Touch
Dimension L x W x H	1600 x 950 x 1100 mm (without machine base support) 1600 x 950 x 1900 mm (with machine base support)
Weight	Approx. 490 kg (without machine base support) Approx. 640 kg (with machine base support)
Order No.	According to project
General Information	
Process variants	
<ul style="list-style-type: none"> • Tip ignition (CD) • Drawn arc welding (ARC) • Short cycle drawn arc welding (SC) 	



Equipment

- User friendly and self-explanatory menu navigation
- Very high welding capacity through intelligent program architecture and optimal program sequence
- Multilingualism
- Possibility of individually set zero points
- Quick change system for stud welding heads
- Fast and easy programming through user guided program editor
- USB flash drive 4 GB
- Rewelding function without continuation of the program after stop
- Flexible connectors for ground clamps
- Integrated display of cycle time and work piece counter

Structure

- Machine protection cover
- Solid work table
- Positioning of work pieces
- Fully automatic welding program
- Storage: 1000 programs with 200 lines each
- Anti wear protection on work plate
- Integrated zero-point-stop
- Display for error indications
- High precision ball screw system
- Ball bearing spindles
- Ring initiator
- High positioning accuracy of the unit through rugged design and linear guidance with ball bearings
- Welding cable guidance inside the energy chains
- Wiring of machine and switchboard according to latest VDE regulation
- Continuous documentation of mechanical and electrical components

Options

- Stud welding heads with length compensation (mechanical or electronic)
- Machine base support
- Work piece fixtures
- Flexible fixture concept
- Customer specific handling systems
- Single stud feeding PBZ
- Pneumatic feeding switch point
- Pneumatic clamp
- Work piece down holder
- Spray regulator unit
- Turn table
- Shielding gas module

Advantages

Features

- High welding capacity
- High traverse speed
- Advanced technology
- High quality product
- Cost savings
- Reliable
- Modular concept based on CAN-Bus-Technology
- Very short change-over time
- Free programmable stroke of Z-axis (0 to 120 mm)

Suitable stud welding units

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