

Automatic welding head KAH-100 D

Areas of application

The digital automatic welding head KAH-100 D is designed for the semi - automatic and fully automatic stud welding of weld studs, pins and sockets according to the following procedures:

- discharge capacitor / capacitor discharge acc.
- No.786
ISO4063:2008
- short cycle and drawn arc No. 783
ISO 4063:2008 and 784

Flexible deployment options for mono applications to a stationary table welding apparatus or in harsh everyday use on fully automated CNC coordinate table machines, robots or other handling systems as well as ease of use with regard to very precise digital setting of lift - and dips measured characterize the KAH-100 D in a special way. The sealed, outside the welding area lying ball guide unit ensures high durability and reliability.

Advantages

- Flexible deployment options for Mono applications on a stationary table welder/bench welder or everyday use on fully automatic CNC coordinate tables, robots, or other handling systems;
- Robust and durable, making it ideal for harsh everyday use;
- Wear resistant: The encapsulated, lying outside the weld area ball guidance unit ensures high durability and reliability;
- Simple operation with respect to a very precise setting of lift - and depth of immersion by of digital multi-segment display.

Digital stud length measurement system

- Effective prevention of defective welded end products, thereby significantly measurable increase in productivity;
- Monitoring the entire bolt length for all stud welding procedures for standard welding elements;
- Monitoring and control of pip-length;
- Very simple and conspicuous posting of tolerance positions before and after welding in 0.1 mm increments;
- Reliable detection of default weldings with plain text display on the primary control system with simultaneous program stop.



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Technical data

Welding area	Studs and pins $\varnothing 3 - 12\text{mm}$ and lengths 6-30 mm (larger sizes on request)
Material	Steel, stainless steel, aluminum and brass
Positioning accuracy	$\pm 0,2\text{mm}$
Compressed air	5 – 7 bar, not oiled
Welding rate	Depending on the welding process, diameter and power source (power unit), stud feed up to 30 studs / min
Digital stud-length measurement system	Digital monitoring of bolt length; Supervision and control of the firing tip length; Detecting faulty and out of tolerance lengths of DIN welding elements or all stud welding processes
Automatic chucks, guide jackets	Guaranteed quick changeover to other stud diameter by the use of proven components (see separate spare part catalogue)
Adjustment of lift and penetration	0-8 mm in steps \acute{a} 0.25 mm per detent stroke adjustment, digital display
Weight	3,0 kg

Fulfillment of the requirements of the Low Voltage Directive 2006/95/EC and EMC Directive 2004/108/EC as part of the manufacturer's declaration.