



## KAH 412

**Automatic Stud Welding Head with Digital Display**  
for CD or ARC stud welding with automatic stud feeding  
according to current standards

### Technical Data

<b>Welding range</b>	M3 to M8, dia. 3 to 8 mm (dia. 10/12/12.7 mm with modification only)
<b>Stud length</b>	8 to 40 mm (standard - other lengths on request)
<b>Stud material</b>	Mild steel, stainless steel, aluminum, brass
<b>Stroke</b>	Adjustment range 5 mm, arresting
<b>Spring pressure</b>	Arresting
<b>Insulation class</b>	IP 20
<b>Workplace noise level</b>	> 90 dB (A) may occur during welding
<b>Operational and storage conditions</b>	According to current standards
<b>Dimension L x W x H</b>	375 x 66 x 145 mm (with chuck and quick change system)
<b>Weight</b>	3.4 kg
<b>Order No.</b>	<b>94-31-412B</b>

### General Information

#### Application

- Especially suitable for thin sheets (at least 0.5 mm)

#### Process variants

- **Contact welding** (optional)
- **Gap welding**
- **Short cycle drawn arc welding**
- **Drawn arc welding** (optional)

### Advantages

#### Structure

- Rigid casing made of metal
- Torsion-resistant aluminum-casing to accommodate all function elements (e.g. ball bearing guide) and accessories
- Zero-play ball linear bearing for guiding the welding piston, to ensure maximum precision and reproducibility for welds
- Sealed welding piston guidance
- Compact dimensions
- Integrated lift and spring-loaded adjustment
- Stud length is freely adjustable (up to 40 mm; other lengths available on request)
- Digital display (1/100 mm) for the position of the welding piston using integrated measuring system
- Direct reading for the adjusted plunge and lift dimension
- Infinitely adjustable spring-loaded adjustment can be read off the scale directly
- Prisma clamping system for fast exchange of the complete stud welding head



- Pushbutton detent system to facilitate changing the feeding tube
- Mechanical structure tested in production
- Electronically controlled

#### Safety

- Lock-in spring adjustment
- Lock-in lift adjustment
- High level of security to prevent the selected settings being changed inadvertently
- Guidance system protected against spatters

#### Welding

- Individual adjustment options for optimum welding results
- Welding on painted sheets possible (clean, smooth and flat surfaces and grounding required)
- Possible to match with special welding elements
- Manual or fully automatic stud feed possible (welding element is automatically pushed through the feed tube in the chuck)

Issue 04/08  
(Technical data may change)