



KAH 412 LA

Automatic Stud Welding Head with length compensation
for CD or ARC stud welding with automatic stud feeding
according to current standards

Technical Data

Welding range	M3 to M8, dia. 3 to 8 mm (dia. 10/12/12.7 mm with modification only)
Stud length	8 to 40 mm (standard - other lengths on request)
Stud material	Mild steel, stainless steel, aluminum, brass
Total stroke of piston	7 mm
Stroke/Length compensation	5/2 mm, 4/3 mm
Spring pressure	Arresting
IP-Code	IP 20
Workplace noise level	> 90 dB (A) may occur during welding
Dimension L x W x H	375 x 66 x 145 mm (with chuck and quick change system)
Weight	3.4 kg
Order No.	94-37-412 (with length compensation)

General Information

Application

- Especially suitable for thin sheets (at least 0.5 mm)
- Automatic compensation of length tolerance of welding elements and height tolerance of the work piece through integrated length adjustment

Process variants

- **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 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)
- 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)
- Automatic length compensation

Issue 02/11
(Technical data may change)