



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	
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) with modification only
Stud length	0.31" to 1.57" (8 to 40 mm) other lengths on request
Stud material	Mild steel, stainless steel, aluminum, brass
Stroke	Adjustment range 0.20" (5 mm), arresting
Spring pressure	Arresting
Insulation class	IP 20
Workplace noise level	Bang > 90 dB (A) may occur during welding
Operational and storage conditions	According to current standards
Dimension L x W x H	14.76" x 2.60" x 5.71" (375 x 66 x 145 mm) with chuck and quick change system
Weight	7.50 lbs (3.4 kg)
Order No.	94-31-412B

General Information

Application

- Especially suitable for thin metal sheets from 0.6 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 03/07
(Technical data may change)