

**CI 03**

Stud Welding Gun (for insulation)
for CD stud welding
according to current standards

Technical Data

Welding range	Cupped head pins dia. 2/2.7 mm
Pin length	9.5 - 152.4 mm
Pin material	Mild steel, stainless steel
Pin type	Cupped head pins
Spring pressure	Adjustable, arresting
Welding cable	10 m
Insulation class	IP 20
Workplace noise level	> 90 dB (A) may occur during welding
Operational and storage conditions	According to current standards
Dimension L x W x H	175 x 50 x 140 mm (without cable and tripod)
Weight	0.7 kg (without cable and tripod)
Order No.	92-20-254

General Information**Application**

- Especially suitable for thin sheets (at least 0.5 mm)
- **ISO** – especially suitable for welding on cupped head pins (for fixing heating, ventilation and air-conditioning mats - HVAC)
- Especially suitable for insulation mats with and without aluminum cover. The cupped head pin has a special tip which permits particularly easy penetration of the insulation materials. Variably adjustable spring pressure allows the stud welding gun to be optimally adjusted to a wide range of material densities
- The fixing method with cupped head pins *replaces* the complex procedure: weld on pin – press mat over pin – affix clip – pinch off or bend over projecting tip

Process variants

- **Contact welding**

Advantages**Structure**

- Rigid casing made of impact-resistant plastic
- Torsion-resistant basic shell (casing) to accommodate all function elements (e.g. ball bearing guide) and accessories (e.g. foot ring)
- Zero-play ball linear bearing for guiding the welding piston
- Sealed welding piston guidance



- Ergonomic design
- Compact dimensions
- Mechanical structure tested in production

Safety

- Lock-in spring 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
- Optimum handling and fatigue-free operation
- Optimum operation also at places that are difficult to access
- Welding on painted sheets possible (clean, smooth and flat surfaces and grounding required)
- No damage to the reverse of thin zinc-plated sheets when complying with specified welding parameters; particularly in the case of cupped head pins with 2 mm diameter (zinc and corrosion protection on the reverse is retained)
- Low energy expenditure
- Very fast fixing: Press the cupped head pin through the mat, welding in 3 milliseconds
- Low power input for pins with dia. 2 mm diameter

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(Technical data may change)