



CD 1501

Stud Welding Unit (with digital display) for CD stud welding (capacitor discharge welding) according to current standards

Technical Data

Welding range Studs M3 to M8, dia. 2 to 8 mm; cupped head pins dia. 2 and 2.7; insulation pins dia. 2 and

3 mm

Welding material Mild steel, stainless steel, aluminum and brass

Welding rate 8 to 20 studs/min (depending on application and stud dia.)

Capacitance 66,000 µF Welding time 1 to 3 msec 1.600 Ws Energy

Charging voltage 50 to 220 V (stepless voltage regulation)

230/115 V, 50/60 Hz, 10 AT **Primary power**

Power source Capacitor

Cooling type F (temperature controlled cooling fan)

Protection class IP 21

Operational and storage

conditions

Weight 17 kg

Order No. 92-10-0151

General Information

Dimension L x W x H

Application

- Especially suitable for thin sheets (at least 0.5 mm)
- ISO especially suitable for fixing heating, ventilation and air-conditioning mats (HVAC)

According to current standards

420 x 180 x 250 mm (without handle)

Process variants

- **Contact welding**
- Gap welding

Advantages

Features

- Microcontroller for precise process times, optimal functional reliability and maximum operating convenience
- Function monitoring automatic function test following power-up; monitoring of all internal system functions
- **Display of error codes** on digital display
- Library function automatic specification of charging voltage through selection of stud diameter according to welding range; fine adjustment via arrow keys

CD 1501

Technical Data Sheet



Structure

- Extremely easy to operate
- Compact
- Robust metal housing withstands rough treatment in shop and on site

Safety

- With integrated mains filter (protection against voltage peaks)
- Optimal for construction sites with large mains voltage fluctuations use even with critical voltage supply (- 25% + 20%)
- EMC test
- High-voltage test with log
- Retriggering lock-out prevents welding on a welding element that has already been set
- Thermal monitoring of transformer and internal temperature of stud welding unit— automatic shutdown in case of overheating
- Temperature-regulated ventilator reduces noise and dust in the stud welding unit (greater system reliability)
- Optimal protection against external interferences
- Protection class IP 21

Welding

- Display infinitely adjustable power setting (charge reversal via set-point switch); easy monitoring of all functions via LED displays
- Powerful built-in power reserves
- Trouble-free changing of welding voltage polarity possible by reconnecting welding current and ground cables
- Use of special capacitors (developed for stud welding)

Suitable welding guns

- C 08
- CA 08
- CI 03

Issue 04/08

(Technical data may change)