





## Inverter-Capacitor Charging Technology Maximum welding rates Minimum weight Maximum efficiency

## CDi 3102

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

M3 to M10, dia. 3 to 10 mm
Mild steel, stainless steel, aluminium and brass
M3 = 20 studs/min. (Charging voltage 50 V) M8 = 10 studs/min. (Charging voltage 140 V) M10 = 6 studs/min. (Charging voltage 200 V)
132,000 μF
1 to 3 msec
3,200 Ws
50 to 220 V (stepless voltage regulation)
230 V, 50/60 Hz, 10 AT
Capacitor
F (temperature controlled cooling fan)
IP 23
480 x 205 x 250 mm (without handle)
18 kg
92-10-3102

Application

Especially suitable for thin sheets (at least 0.5 mm)

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

Structure

- Extremely easy to operate
- Compact
- Robust Powder coated steel 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 (DIN EN 60974-10)
- High-voltage test with log (DIN EN 60974-1)
- Logged capacitor forming for quality control of the stud welding capacitors
- Self-forming capacitors provide a longer life period and higher reliability
- Retriggering lock-out prevents welding on a welding element that has already been set
- Thermal monitoring of charging unit and internal temperature of stud welding unit
   automatic shutdown in case of
  overheating
- Temperature controlled cooling fan reduces noise and dust in the stud welding unit (greater system reliability)
- Optimal protection against external interferences
- IP-code: IP 23

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/-heads

- C 08
- CA 08

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