Product Information – BMS-9N Stud Welder

Part number: P01097 | BMS-9N | Capacitor Discharge Stud Welder (CD)

Brief Description:

The BMS-9N is a compact capacitor discharge stud welder (CD) designed for flexible use in workshops, installation work and maintenance applications. Thanks to modern inverter technology, the unit delivers high performance in a compact design and enables reliable welding of steel, stainless steel and aluminium. Its simple and intuitive operation makes the unit suitable for both beginners and professional users.



Advantages at a Glance:

- Compact and powerful design
- Modern inverter/switched-mode power supply technology
- Wide input range 100–260 V for flexible applications
- Energy-efficient technology with degree of protection IP23
- High-quality 50 mm² welding connectors for improved current transfer

Typical Applications for the Handheld Stud Welding Unit:

The unit is particularly suitable for metalworking and fabrication workshops, vehicle repair and bodywork applications, installation work on construction sites, as well as maintenance and repair work. Furthermore, the unit is suitable for sheet metal fabrication, control cabinet construction, ventilation and air-conditioning systems, and mechanical and plant engineering.

Typical Welding Tasks:

- Fastening threaded studs, pins and fasteners to thin materials from 0.5 mm
- Particularly suitable for small diameters of approx. 2–8 mm
- Processing thin workpieces and sheet metal
- Decorative metalworking and sheet metal fabrication

Scope of Delivery:

- BMS-9N stud welder
- C13 power cable with earthed plug
- Operating instructions (also available online)

Designation	Part Number	Net Price in EUR
BMS-9N	P01097	Price on request

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BMS-9N	Technical Data
Welding process	Capacitor discharge stud welding (CD)
Standard gun	PS-9K HYBRID
Welding range	M3–M8 or Ø 3–8 mm for steel, stainless steel, aluminium and brass (M8 or Ø 8 in aluminium & brass conditionally, depending on respective requirements)
Power source	Capacitor bank 200,000 µF
Energy (max.)	1000 joules
Charging voltage	40–99 V (1 V increments)
Welding rate	Ø 6 mm: 10 studs/min, Ø 3 mm: 20 studs/min
Mains connection	Wide-range input 100–260 V, 50/60 Hz
Input power (Pmax.)	550 watts
Standby power	< 5 watts
Cooling method	S (passive via convection)
Degree of protection	IP23
Dimensions	180 x 235 x 300 mm (W x H x D)
Weight	approx. 6.3 kg (+ power cable approx. 0.5 kg)



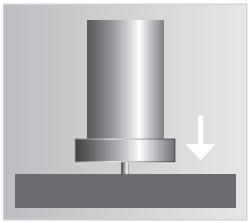
Stud welding device BMS-9N



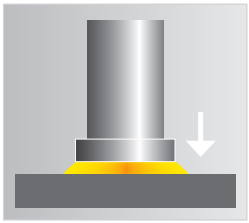
PS-9K HYBRID stud welding gun

How does capacitor discharge stud welding (CD) work?

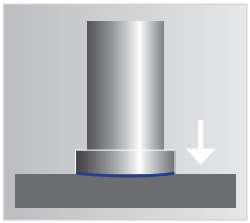
In capacitor discharge stud welding, a short, extremely high-energy electrical pulse is used to melt the stud and the workpiece at specific points and join them together immediately – quickly, cleanly and with minimal heat input.



The tip of the stud touches the workpiece. The arc is initiated.



The ignited arc creates a thin molten zone on the stud and workpiece.



The stud is immersed in the weld pool. The material solidifies and the stud is welded to the workpiece.

YouTube

Suitable Accessories:

Designation	Part Number	Net Price in EUR
PS-9K HYBRID stud welding gun	P02162	Price on request
Accessory set (stud chuck, earth cable, tool)	P00104	Price on request
Equipment case (empty)	M03521	Price on request

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