

BR3PT450

HF mini welding machine



Balacchi HF proudly extends its range of high-frequency welders with the BR3PT450, a compact, economical, and low-power machine perfect for a variety of applications. Whether used alone or as a complement to larger HF equipment, the BR3PT450 is designed for delicate tasks requiring precision and careful manipulation.

Key Features

Portable and Versatile: The BR3PT450 is lightweight and portable, making it perfect for on-site repairs and flexible enough for both factory and field use.

Precision Welding: Furnished with appropriate electrodes, it excels at delicate jobs on small fabric areas, ideal for repairs and small-scale manufacturing.

Multi-Purpose Applications: Perfect for detailed work requiring multiple welding operations such as flexible protections, swimming pool cladding, advertising materials, and sunscreen canvases.

Detailed Welding Operations: Ideal for jobs needing multiple types of welds on small areas, ensuring high-quality results every time.

Benefits

On-Site Convenience: Easily transportable, allowing you to bring the welder directly to the client's site for quick and efficient repairs.

Enhanced Control: Equipped with a press protection system and foot pedal for safer and more controlled operations.

Customizable Accessories: Comes with specially designed, personalized, and engraved electrodes, along with an easy electrode changing system for seamless transitions between tasks.

Perfect For

Repair Work: Quickly address and fix issues on-site, reducing downtime and enhancing client satisfaction.

Small-Scale Manufacturing: Efficiently handle production tasks requiring precision and detail.



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PRESS

- C-frame structure made of quenched and tempered electrowelded steel, machined with CNC
- Structural calculations performed with ANSYS system
- Distance between piston center and machine body: 450 mm
- Distance between welding plane and electrode holder plate: 190 mm, adjustable
- Electrode holder plate fully shielded and protected by a plexiglass cover
- Welding pressure: 300 kg with adjustable mechanical stop
- Safety system to prevent hand crushing
- Press control with dual-hand buttons/pedal
- Worktable dimensions: 500 mm x 1000 mm
- Worktable height: 1030 mm

HF GENERATOR

- Resonant cavity generator
- Operating frequency: 27.125 MHz \pm 0.6%
- Power delivered to the electrode: 3 kW
- Metal-ceramic triode with forced air cooling
- High voltage to low voltage transformers type in air
- Silicon diode rectifier bridge with overvoltage protection
- SCR-type discharge suppressor

CONTROLS AND ADJUSTMENTS

- Controls via touchscreen panel designed for simplicity and ergonomic needs
- Digital adjustment with software designed by the Balacchi team for controlling and regulating the entire welding process
- Power adjustable by achieving the desired value or distribution percentage
- The PLC program ensures the welding process remains within the set intervals for job execution and emits alarm signals or stops automatically if the expected parameter varies, ensuring high-quality welding: completely avoiding insufficient and/or weak weld seams or material overheating
- The PLC can store up to 50 programs with 32 different welding parameters to adjust: power, pressure, time, speed, movement, cooling, etc.

ELECTRICAL AND PNEUMATIC SUPPLY

- Power supply voltage: 400 V three-phase + N + T
- Compressed air: 6 Bar, dehumidified from your system
- Dimensions: 1000 mm x 1200 mm

