

BR4PT400

HF welding machine



Key Features

Compact and Powerful: Delivers 3 to 6 KW, ideal for precise welding of small parts.

Ergonomic Design: Strong C contraction and excellent visibility for seamless operation.

User-Friendly: Intuitive controls make it easy for operators of all skill levels.

Versatile Applications: Perfect for advertising, technical covers, medical, automotive, baby products, inflatable items, and waterproof clothing.

Customizable Options: Available with lasers, personalized electrodes, various welding rods, easy electrode changing system, lights, and wheels.

Benefits

Precision and Control: Flawless welds with advanced design.

Efficiency: Minimize downtime, maximize output.

Adaptability: Suited for small material surfaces and intricate designs.

Comfort: Ergonomically designed for tasks requiring intensive material manipulation.

TECHNICAL PERFORMANCE

- Pressing force: 750 Kg
- Power: 4 KW
- Working frequency: 27.125 MH
- Working table: 1000 x 500 mm

PRESS

- C steel electro-welded structure cleared and cnc worked



- Mobile head in electro-welded steel cleared and worked in cnc with two flowing guides and buckles in the recirculation of spheres mounted on the carrying structure
- Completely screened welding slab
- Inferior fixed plan cnc worked
- Dimension welding table 1000 x 500 mm with cut out in the middle (according the sketch provided by customer)
- Adjustable welding pressure from 200 kg to 750 Kg
- Press opening 200 mm
- Adjustable stroke 200 mm
- Upper press platen surface 500 x 200 mm
- Easy positioning – fixation for upper electrodes with basic aluminium plate 500 x 200 x 10 mm
- Easy positioning for lower electrodes with basic aluminium plate (dimensions to be defined) on welding work table by means of 2 plastic positioning studs
- Structural mathematics calculated under ANSIS norms

PNEUMATICS

- Balacchi components
- Cylinder 125mm diameter
- Setting from 1 to 8 BAR

HF GENERATOR

- Generator with resonant cavity
- Ceramics triode model BM3 with forced air cooling
- Air transformers from high tension to low tension
- Tensions rectifier bridge with diodes of silicon complete of protections for the overstrains
- Suppressor of discharges model SCR
- Working frequency 27.125 MHz , Frequency stability +- 0.6 %
- Power max 6 kW,
- Feed 400v three-phases

SOFTWARE AND MANAGEMENT

- Software exclusively developed by Balacchi HF engening/programmer team for the complete control and regulation of the entry welding process
- Balacchi HF is unique that developed the program which has possibility to manage the power adjustment with pursuing of value or through percentage of distribution
- PLC program ensures that welding process remains within the prescribed narrow intervals during the work execution. The machine gives warning signals or stops automatically if the predicted welding parameter changes. In this manner high quality welding is guaranteed: insufficient/weak welding seam or overheating of material are completely avoided.



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- PLC can store up to 50 recipes with 32 different welding parameter to adjust: power output, pressure, time, velocity, press moving, cooling etc.
 - Commands on front side machine with touch screen operator panel. The control panel is intuitive and easy to handle, designed to fulfil ergonomic demands.
 - Relais of interface
 - Motor control variable with a closed loop system
 - Visual and sonorous indication alarms
 - Completing material and electrical outlines

WEIGHT 550 Kg DIMENSIONS 1200 mm x 1050 mm x 1900(h.) mm

