Balacchi s.r.l.
SEDE LEGALE: Via Vassallo, 31 - 20125 Milano (MI)
SEDE OPERATIVA: Via L. Muratori, 4 - 20030 Senago (MI)
tel. +39(0) 284924790 - fax. +39(0) 284924778
info@balacchi.it - www.balacchi.it
REG.IND./COD.FISC./P.IVA 08780020965

HF BR20HFKW

HF keder welding machine



The Balacchi HF BR20HFKW is a specialized welding machine designed to deliver exceptional performance in keder welding. With its advanced features and high-quality construction, this machine is ideal for a wide range of applications requiring precise and durable welds.

Key Features and Benefits

Specialized Keder Welding System: The BR20HFKW is equipped with a unique device specifically designed for welding keder, ensuring precise and reliable performance.

High-Quality Welds: The machine features a special electrode that guarantees straight and strong weld joints, critical for the durability and reliability of keder products.

Fully Automatic Operation: Capable of producing up to 500 meters per hour, the BR20HFKW offers fully automatic production, significantly increasing efficiency and throughput.

Why Choose the BR20HFKW?

Optimized for Keder Welding: The specialized system and devices ensure top-notch keder welding, providing straight and robust weld joints.

High Efficiency: The machine's fully automatic operation and impressive speed enhance productivity, making it ideal for large-scale production.

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Superior Performance: Balacchi's high-frequency welding technology and mechanical excellence ensure reliable and high-quality results for diverse applications.
Customizable and User-Friendly: Designed for ease of use and efficiency, the BR20HFKW can be tailored to meet specific production needs, enhancing operational flexibility.foot pedal, laser guides, remote control, specially designed and engraved electrodes, an easy electrode changing system, and a vacuum system for precise material positioning.
Versatility: Perfect for manufacturing a wide range of medium-sized PVC structures.
Ease of Use: Thoughtful design elements ensure smooth and efficient fabric handling.

SOFTWERE AND MANAGEMENT

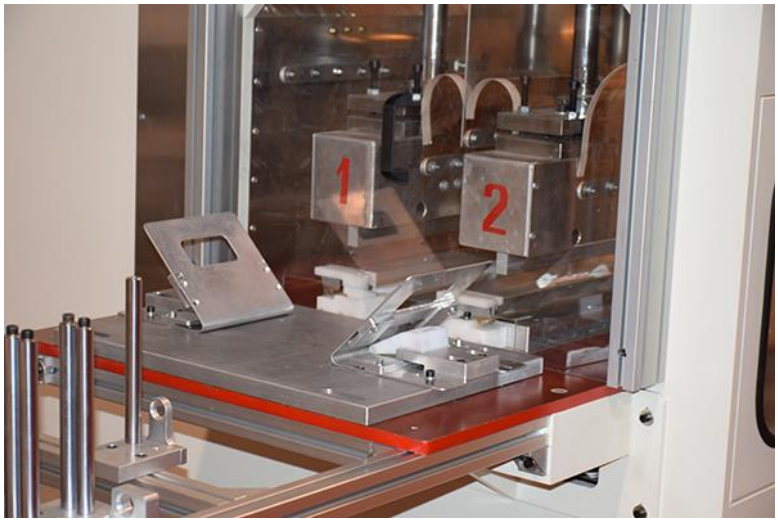
- Software exclusively developed by Balacchi HF engering/programmer team for the complete control and regulation of the entry welding process
- Balacchi HF is unique that developed the program which has possibility to manage the power adjustment with pursuing of value or through percentage of distribution
- 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.
- 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.



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TECHNICAL PERFORMANCE

- Power delivered to the electrode: 20 kW
- Operating frequency: 27.125 MHz
- Machine cycle: manual, semi-automatic, and automatic
- Productivity: 9 m/min



PRESS

- Suspended structure in normalized electrowelded steel, CNC machined
- Mobile head in electrowelded steel, CNC machined with two fluid guides and ball recirculation loops installed on the structure
- Fully shielded electrode holder plate
- Fixed lower plane, CNC machined
- Pneumatic drive with a bore diameter of 63 mm
- Keder welding unit specially designed according to customer specifications
- Cooling and heating unit
- Adjustable welding pressure from 200 to 1000 Kg
- Press opening: 200 mm
- Adjustable stroke from 30 to 200 mm – Distance between welding surface and electrode holder plate
- Structural calculations performed with the ANSIS system
- Automatic clamping system for quick electrode replacement

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GENERATOR

- Resonant cavity generator
- Metal-ceramic triode with forced air cooling
- High voltage to low voltage transformers
- Rectifier bridge with silicon diode, complete with overvoltage protections
- SCR-type discharge suppressor
- Operating frequency: 27.125 MHz, frequency stability ± 0.6%
- Power supply: 400 V, 3-phase
- High-frequency dosing device

