



Hot Plate Welder Model HH-15

General Description Branson's HH Series horizontal hot plate welder Model HH-15 is a complete assembly system designed to weld parts up to 12" by 15" (300 by 375 mm), or multiple smaller parts.

Hot Plate Welding

Hot plate welding is used to join two or more thermoplastic parts and can produce a high-strength hermetically sealed assembly. The part surfaces are melted by contact with a heated platen and then precisely clamped together to form the final assembly. The flexibility of this process permits a wide latitude in designing parts.

Process Advantages

- Difficult geometries can be welded (e.g., compound curves, multi-level).

- Can weld internal walls.
- Produces consistent, high-pressure hermetic seals.
- Eliminates consumables (e.g., glues, solvents, adhesives, etc.).

HH Series – Horizontal Heat Platen

- Automatic part pick-up available.
- Loose internal parts stay in place.
- Both part halves can be loaded at the same time.
- Heat platen can be loaded from the front of the machine.
- Heat platen can be easily serviced and changed.
- Can be adapted to in-line systems, conveyors or dial tables.

Hot Plate Welding

STANDARD FEATURES

Compact design
Interlocked safety doors with full guarding
Heavy duty construction
Allen-Bradley SLC-500
Touch screen HMI
Automatic cycle start on closing of door
Single zone temperature controller
Digital temperature controller
Two vacuum and two mechanical part clamping circuits/valves are standard
Auto part pick-up
Raising lower press platen

BENEFITS

Small footprint minimizes floor space requirement
Maximum operator safety
Consistent alignment of tools/platen
Precise machine control with easy cycle parameter modification
Ease of setup
Increased production rates
Allows for precise temperature control
Ease of setup
Set-up versatility
Ease of part loading
Safer operation than moving overhead press

Electrical Specifications:

Machine Controller: Allen-Bradley SLC500 programmable controller

Interface: Proface Monochromatic

Power Requirements: 480V AC, 3 phase, 60 Hz, 20 amp

Mechanical Specifications

Weight: Approx. 2,300 lbs. (1,045 kg)

Dimensions:

Overall: 58"W x 55"D x 79"H (1473 mm x 1397 mm x 1207 mm)

Heat platen size: 15" wide x 12" deep (375 x 300 mm)

Max. distance between press platens (std): 27" (685 mm)

Max. vertical press stroke: 16" (406 mm)

Max. heat platen stroke, in/out: 14" (355 mm)

Max. heat platen stroke, up/down: 4" (102 mm)

Air Pressure: 80 psi minimum (552 kPa)

ORDERING INFORMATION:

HH-15 Hot Plate Welder

Branson EDP No.

300-101-04.

Options

- Additional heat zone controller.
- Heater burnout alarms (per zone).
- Light screen.
- Hood with exhaust fan.
- Hood with smoke and fume "scrubber".
- Cycle counter with key reset.
- Lower frame side panels.
- Overhead operator light.
- On-board printer.
- RS-232 port for SPC capability.

BRANSON

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Note: All sales shall be subject to the Supplier's terms and conditions of sale as described in Branson's quotations and sales contracts.

Warranty: The HH Series hot plate welder is warranted to be free from defects in materials and workmanship for two years.

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