



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

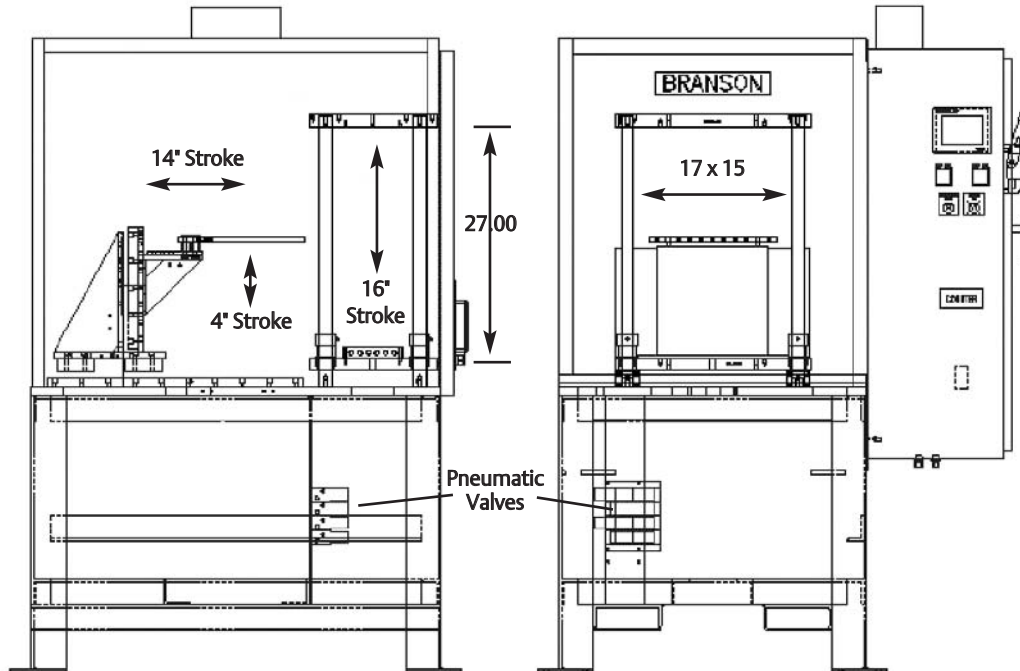
- Automatic part pick-up available
 - Loose internal parts stay in place
 - Both part halves can be loaded at the same time.
- Heat platen can be loaded from the front of the machine
 - Heat platen can be easily serviced and changed
- Can be adapted to in-line systems, conveyors or dial tables

Standard Features	Benefits
Compact design	Small footprint minimizes floor space requirement
Interlocked safety doors with full guarding	Maximum operator safety
Heavy duty construction	Consistent alignment of tools/platen
Allen-Bradley SLC-500	Precise machine control with easy cycle parameter modification
Touch panel human-machine interface	Ease of setup
Automatic cycle start on closing of door	Increased production rates
Single zone temperature controller	Allows for precise temperature control
Digital temperature controller	Ease of setup
Tooling can be loaded from front	Reduces downtime during tooling changeover
Auto part pick-up	Ease of part loading
Raising lower press platen	Safer operation than moving overhead press

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Electrical Specifications

Machine Controller: Allen-Bradley SLC500 programmable controller

Interface: TCP Quick Panel Jr.

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.** 300-101-043

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

Options

- Automatic part pick-up
- 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

Warranty

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

Note: All specifications subject to change without notice.

Branson

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HH-15
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