Hot Plate Welder
Model HV-15

General Description
Branson’s HV-15 hot plate welder is a complete assembly system designed to weld parts up to 15" by 12" (375 by 300 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 pressed together to form a final assembly. The flexibility of this process permits a wide latitude in designing parts.

Process Advantages
• Joint can be curved in all planes.
• Consistent high-pressure hermetic seals.
• Eliminates consumables (e.g., glues, solvents, adhesives, etc.).
• Can weld internal walls.

HV Series – Vertical Heat Platen
• Nests are in view for part loading.
• Both part halves can be loaded at the same time with a single cavity tool.
• Hot plate inserts are vertical for service.
• Interlocked doors on three sides for ease of tooling access.

<table>
<thead>
<tr>
<th>STANDARD FEATURES</th>
<th>BENEFITS</th>
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</thead>
<tbody>
<tr>
<td>Compact design</td>
<td>Small footprint minimizes floor space requirement</td>
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<td>Interlocked safety doors with full guarding</td>
<td>Maximum operator safety</td>
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<td>Heavy duty construction, THK bearing system</td>
<td>Consistent alignment of tools/platen</td>
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<td>Allen-Bradley SLC-500</td>
<td>Precise machine control with easy cycle parameter modification</td>
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<td>Touch screen HMI</td>
<td>Quick, easy parameter input and adjustment</td>
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<td>Automatic cycle start upon manual door closure</td>
<td>Increased production rates</td>
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<td>Single zone temperature controller</td>
<td>Multiple heat zones can be added</td>
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<td>Digital temperature controller</td>
<td>Ease of setup</td>
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<tr>
<td>Quick change tooling capable</td>
<td>Reduces downtime during tooling changeover</td>
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<td>Two vacuum and two mechanical part clamping circuits/valves are standard</td>
<td>Set-up versatility</td>
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**Hot Plate Welding**

**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. 1800 lbs. (816 kg)
- **Dimensions:**
  - **Overall:** 60"W x 48"D x 68"H (1525 mm x 1220 mm x 1730 mm)
  - **Standard heat platen:** 12" W x 15" H (300 x 375 mm)
  - **Max. distance between press platens (std):** 10" (254 mm)
  - **Max. horizontal press stroke:** 10" each (254 mm)
  - **Max. heat platen stroke:** In/out = 14" (355 mm)
- **Air Pressure:** 80 psi minimum (552 kPa)

**ORDERING INFORMATION:**
- **Branson EDP No.**
  - HV-15 Hot Plate Welder 300-101-008

**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.
- High temperature kit.

**Note:** All specifications subject to change without notice.

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

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