



## HH Series Horizontal Hot Plate Welders Models HH24S, HH24A, HH42A, and HH72A

### General Description

Branson's HH-Series horizontal hot plate welders are complete assembly systems designed to weld parts up to 24" by 72" (610 by 1829 mm), or multiple smaller parts. (Note: the HH24S platen size is 24" by 19"/610 x 483 mm.)

### 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

- Difficult geometries can be welded
- Consistent high-pressure hermetic seals
- Eliminates consumables (e.g., glues, solvents, adhesives)
- Can weld internal walls
- Internal parts stay in place

### HH Series—Horizontal Heat Platen

- Mechanical and vacuum clamps standard
- Selectable automatic part pick-up
- Heat platen swivel for service standard
- Additional heat zone controllers available
- High temperature kit available

Standard Features	Benefits
Touch panel human-machine interface	Quick setup and user friendly
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
Automatic cycle start	Increased production rates
Independent zone temperature controllers; number based on individual model	Allows for uniform temperature control over entire platen
Digital temperature controllers	Precise temperature control over entire platen
Linear displacement transducer for platen and carriage position	Eliminates limit switches, improves position and speed control
Hydraulic proportional valves	Smooth, precise motion resulting in consistent parts.

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# BRANSON

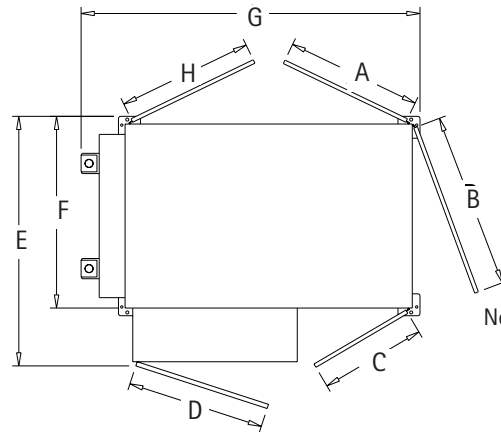
## Specifications

Note: All specifications subject to change without notice.

	HH24S	HH24A	HH42A	HH72A
<b>MECHANICAL</b>				
Dimensions, Overall	60"W x 78"D x 83"H (1524 x 1981 x 2108 mm)	60"W x 108"D x 88"H (1524 x 2743 x 2235 mm)	74"W x 108"D x 88"H (1880 x 2743 x 2235 mm)	104"W x 108"D x 88"H (2642 x 2743 x 2235 mm)
Heat Platen Size	24" x 19" (610 x 483 mm)	24" x 24" (610 x 610 mm)	42" x 24" (1067 x 610 mm)	72" x 24" (1829 x 610 mm)
Max. Upper/Lower Opening	29" (737 mm)	29" (737 mm)	29" (737 mm)	29" (737 mm)
Max. Press Stroke	16" (407 mm)	16" (407 mm)	16" (407 mm)	16" (407 mm)
Max. Heat Platen Stroke	21.5" (547 mm)	27" (686 mm)	27" (686 mm)	27" (686 mm)
Air Pressure	80 PSI minimum			
Weight	5500 lbs. (2500 kg)	6500 lbs. (2955 kg)	8500 lbs. (3864 kg)	10,500 lbs. (4773 kg)
Lift Assist Cylinder	(not available)	Standard	Standard	Standard
<b>ELECTRICAL</b>				
Power Requirements	480VAC, 3 phase, 60 Hz			
Machine Controller	Allen-Bradley SLC500			
# of Heat Controllers Std.	1	1	2	3

Note: Model HH-60 also available.

## Dimensions



Note: HH42 and HH72 have two rear doors (B and B' in chart below).

	A	B	B'	C	D	E	F	G	H
HH24S	32.0	40.0	N/A	25.5	34.1	60.0	45.0	78.0	32.0
HH24A	40.0	40.0	N/A	44.5	34.1	60.0	47.0	108.0	40.0
HH42A	40.0	29.0	29.0	41.0	34.1	76.0	62.0	108.0	40.0
HH72A	40.0	44.0	44.0	41.0	34.1	104.0	92.0	108.0	40.0

Note: Dimensions are in inches. Dimensions subject to change without notice.

## Options

- Special paint
- Lower side panels
- Heater burnout alarms
- Additional heat zone controller
- Hood with exhaust fan
- Hood with smoke hog
- Cycle counter with key reset
- Data acquisition (with printer or RS232 data port)
- High temperature kit
- Light screen for operator door

## Ordering Information

	Branson EDP No.
HH24S Hot Plate Welder	300-101-042
HH24A Hot Plate Welder	300-101-050
HH42A Hot Plate Welder	300-101-010
HH72A Hot Plate Welder	300-101-021

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 welders are warranted to be free from defects in materials and workmanship for one year.

## Branson

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