



## L-1 Series Linear Vibration Welders



### General Description

Branson, the pioneer in vibration welding with over 25 years of real-life production experience, introduces an enhanced version of its popular L Series linear vibration welders — the *L-1 Series*.

The L-1 Series welders are complete plastics assembly systems capable of welding large or irregularly-shaped thermoplastic parts. Three models are available with selection dependent upon part size and production requirements. (Photo is representative of all models.)

Each model has an adjustable digital power supply with nominal vibrating frequency of 240 Hz. Modular construction also allows the individual components (vibrator assembly and power supply/control panel) to be adapted to automated or custom systems.

#### L-1 Series features include:

- Improved ergonomics – table height lowered to 35" (890 mm) and door opening increased providing easier access for part loading and unloading.
- Touch screen operator interface with weld-by-distance option.
- Hydraulic lift/clamp system with higher force capability.
- Sound level reduced to 80-82\* dBA (time weighted average).
- Increased power.

\* May vary depending upon model and parts being welded.

#### Model VW/4L-1

- Maximum part size: 33.5" long x 18 wide (851 x 457 mm)
- Table stroke: 20" (508 mm)
- Machine footprint: 73" x 42" (1854 x 1067 mm)

#### Model VW/6L-1

- Maximum part size: 46" long x 18" wide (1168 x 457 mm)
- Table stroke: 20" (508 mm)
- Machine footprint: 87" x 46" (2210 x 1168 mm)

#### Model VW/8L-1

- Maximum part size: 58" long x 18" wide (1473 x 457 mm)
- Table stroke: 20" (508 mm)
- Machine footprint: 99" x 46" (2515 x 1168 mm)

#### Warranty

The L-1 Series Vibration Welders Models VW/4L-1, VW/6L-1, and VW/8L-1 are warranted to be free from defects two years for parts and one year for labor from the date of shipment.

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# BRANSON

## Technical Specifications

Specifications	Model		
	VW/4L-1	VW/6L-1	VW/8L-1
Drive Platen Size L x W	30" x 18" (762 x 457 mm)	40" x 18" (1016 x 457 mm)	52" x 18" (1321 x 457 mm)
Head Opening L x W x D	15" x 12" x 7.5" (381 x 305 x 191 mm)	30" x 12" x 8" (762 x 305 x 203 mm)	43" x 12" x 8" (1092 x 305 x 203 mm)
Lift Table Size L x W	33.5" x 21" (851 x 533)	46" x 21.5" (1168 x 546 mm)	58" x 23" (1473 x 584 mm)
Table Opening L x W x D (min.)	23.5" x 11.5" x 1.3" (597 x 292 x 33 mm)	38" x 11.5" x 1.75" (965 x 292 x 44.4 mm)	50" x 11.5" x 1.75" (1270 x 292 x 44.4 mm)
Front Door Opening L x H	37" x 25" (940 x 635 mm)	49" x 25" (1245 x 635 mm)	61" x 25" (1550 x 635 mm)
Variable Stroke	20" max. (508 mm)	20" max. (508 mm)	20" max. (508 mm)
Machine Footprint W x D x H	73" x 42" x 74" (1854 x 1067 x 1880 mm)	87" x 46" x 73.5" (2210 x 1168 x 1867 mm)	99" x 46" x 73.5" (2515 x 1168 x 1867 mm)
Drive Fixture Weight (nominal)	35 lbs. (16 kg) recommended; 50 lbs. (22.6 kg) max.	45 lbs. (20 kg) recommended; 80 lbs. (36.3 kg) max.	110 lbs. (50 kg) recommended; 120 lbs. (54.4 kg) max.
Clamp Force (lbs-F)	4000 (17.8 kN)	6000 (26.7 kN)	6000 (26.7 kN)
Available Horsepower (kW)	15 (11 kW)	20 (15 kW)	20 (15 kW)
Dry Cycle Time*	5.0 sec.	5.0 sec.	5.0 sec.
Weight (approx.)	4500 lbs. (2041 kg)	5000 lbs. (2268 kg)	6500 lbs. (2948 kg)

\* Dry cycle time measured at 20" (508 mm) stroke.

Note: All dimensions are nominal.

All specifications subject to change without notice.

### Ordering Information

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

#### Branson EDP No.

Model VW/4L-1                    300-101-081  
 Model VW/6L-1                    300-101-082  
 Model VW/8L-1                    300-101-083

For complete information and specifications on L-1 Series vibration welders, refer to individual data sheets.

### Options

Light curtain  
 Dual lift cylinders (provides 21"/533 mm stroke and table opening depth of 12.5"/317 mm)  
 Duplex electrical outlet (120V) (exterior mount)  
 Exterior work lights  
 Weld by distance  
 Special paint

### Branson

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### VW L-1 Series

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