

Branson™ Series A-6 Vibration Welder

Plastic Vibration Welding

Features & Benefits

The Branson A-6 series sets the industry standard for welding configurability, safety, accessibility, and user-friendliness. The customer-oriented design offers efficient process and flexibility to solve varying application needs.

Weld quality and consistency are ensured with a torsion-resistant machine frame, hydraulically driven lift table and vibration head with proven design.

A rugged Programmable Logic Controller (PLC) controls an exceptionally user-friendly machine with intuitive navigation displayed on a touch screen with a graphical thin-film transistor (TFT) display.



Differentiators

- Shorter cycle time enables higher throughput
- Large clearance space accommodates applications of varying sizes
- Full lineup of product variants that supports diversified customer needs

Technical Specifications

Mechanical		A6i2H	A6i3H	A624H
Overall Dimensions (H x W x D)	mm	2329 x 2735 x 1318		
Dimensions with open Doors (H x W x D)	mm	2329 x 3523 x 1923		
Upper Fixture (oscillating Head, W x D)	mm	880 x 400	920 x 540	920 x 540
Lower Fixture (stroking Table, W x D x Level above Floor)	mm	1360 x 600 x 967		
Hole in the Table (W x D)	mm	800 x 300		
Clearance between the Column Supports	mm	1420		
Clearance between the Table and the Head	mm	770	770	740
Table Stroke	mm	0 - 500		
Min. Tooling Height	mm	298	298	270
Weight	kg	Approx. 3800kg	Approx. 3800kg	Approx. 3800kg

For more information:
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Technical Specifications

Oscillating Head		A6i2H	A6i3H	A624H
Type		Standard I2 Head (PPL)	Standard I3 Head (PPL)	Standard M624H
Kinematics		Linear Vibration		
Frequency (nominal, depending on the Tooling Weight)	Hz	Approx. 240Hz (nominal, depending on the Tooling Weight)		
Amplitude	mm	0 - 1.8		
Tooling Weight	kg	35-65	40-70	35 - 65
Performance (Weld Area, depending on the Material)	cm ²	50 - 150	50 - 300	50 - 500
Positioning Accuracy	mm	±0.05	±0.05	±0.05
Hole in the Driverbox (W x D)	mm	Limited Open area	Limited Open area	None
Drive System				
Type		Branson Frequency Inverter		
Power Consumption	kW	15	30	30
Machine Controls				
PLC Type (standard, alternative: see Spec.)		MITSUBISHI FX series	MITSUBISHI FX series	MITSUBISHI FX series
OP Type (standard, alternative: see Spec.)		Pro-face ST6600 12"		
Table Position Control		Full Stroke (balluff)	Full Stroke (balluff)	Full Stroke (balluff)
Penetration Control		Closed Loop		
Hydraulics				
Type (standard, alternative: see Spec.)		Hydac	Hydac	Hydac
Clamp Force	kN	Max. 25	Max. 25	Max. 25
Oil (required Capacity for Setup, Specification)		44 L, 32c St/40°C H-LP32	44 L, 32c St/40°C H-LP32	44 L, 32c St/40°C H-LP32
Stroke Speed of the Table	mm/s	Max. 250	Max. 250	Max. 250
Pneumatics				
Type (standard, alternative: see Spec.)		SMC		
Input Air Pressure	bar	6 - 10		
Functions (standard, alternative: see Spec.)		4		
Sound Enclosure				
Type (standard, alternative: see Spec.)		Normal		
Noise Emission (GBZ/T 189.8-2007)	dBA	≤ 85		
Front Door (H x W x Level above Floor)	mm	870x 1397x 940		
Maintenance Door (inside Opening, H x W)	mm	1850 x 1410		
Color (standard, alternative: see Spec.)		RAL 7035 (Light Grey)		

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Connections (standard, alternative: see Spec.)		A6i2H	A613H	A624H
Pneumatical		Inlet 10 mm		
Electrical		3 x 380 V, N, PE, 50Hz	3 x 380 V, N, PE, 50Hz	3 x 380 V, N, PE, 50Hz
Power Consumption	kVA	20	32	32
Max. Current (main Fuse)	A	40(63)	49(63)	49(63)
Input Power Cable	mm ²	5 x 10	5 x 10	5 x 10
Data Interfaces		Serial Port		
Ambient Conditions				
Temperature	°C	+15 - + 40		
Humidity (no Condensation)	%	30 - 95		
Altitude (above sea level)	m	< 1000		

* Dimensions can vary due to switches, pneumatic input unit, rubber elements, tolerances, and other options.
The contents of this publication are presented for information purposes only.
We reserve the right to modify or improve the designs or specifications of our products at any time without notice.

* Please confirm with Emerson engineer whether the parameter "Clearance between the Table and the Head" is applicable to the existing tooling.