Intelligent Assembly Solutions

VWB4900 Vibration Welder

Table Size 72” (1829mm) by 24” (610mm)

FEATURES

• Electromechanical vibration head assembly (200-240Hz)
• Super rigid four rail table slide system
• One piece flame cut bridge (heaviest in class, in the industry)
• Solid state 50hp digital vibration drive
• Hydraulic lift/clamp force max. 5,500 lbs. (31,000 N), 20 gallon (75.6 L) reservoir
• Allen-Bradley Compactlogix controller with add-on expansion available
• Allen-Bradley Panelview Plus 700 full color touch screen HMI
• Intuitive and interactive comprehensive help menu
• Part parameter monitoring with programmable limits
• Language capabilities, English and Spanish
• Automatic tuning with auto ping mode
• Programmable amplitude 0.020” to 0.070” (0.5 to 1.8 mm)
• Weld by time or weld by distance (absolute or collapsed)
• Interior work light
• Optical zero force cycle activation switches
• Light Curtain for single switch activation
• Dual external utility outlets
• Programmable amplitude and pressure profile, up to 5 steps

SPECIFICATIONS

• Table size 72” x 24” (1829mm x 610mm) (also max. tool size*)
• Table opening 58” by 12” (1470 x 305) with max. depth 20” (500mm) [except F/B center strip 3” (75mm) wide with depth ½” (12mm)]**
• Upper tool weight 110-200 pounds (50-90kg)
• Low 41” (1040mm) lift table height
• 20” (500mm) Stroke, 25” (630mm) Max daylight
• Door opening 26” high x 76” wide (660mm x 1931mm)
• Less than 80 dB in operation (continuous measurement)

OPTIONS

• Position adjustable cycle activation switches
• Exterior work light
• Customer-specified PLC and HMI interface (Siemens or Mitsubishi)
• Custom paint per customer specification
• Rear sliding door for pass-through operation
• Programmable pneumatic clamp or eject valves and/ or programmable part-in-place sensing
• Custom quoted machines with non-standard: frame sizes, lift tables, stroke lengths, etc., using standard vibration heads available.

* Tooling can in some instances overhang the back of the table by a modest amount. Consult Dukane for more information.
** Custom lift table or custom frame can be quoted to allow for an uninterrupted bucket of greater depth.

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VWB4900 Vibration Welder Dimensions

Plan View

1) OUTLINE DRAWING SHOWS EXTERNAL DIMS. ONLY.
2) FRONT SLIDING DOOR RAISES TO CLOSE OFF OPENING.
3) LIFT TABLE LOAD WEIGHT IS PROGRAMMABLE.
4) POWER REQUIREMENT: 480 VAC, 3PH 60HZ 40 AMPS.
5) AIR REQUIREMENT: MIN 75 PSI 1 SCFM CLEAN, DRY.
6) MACHINE WEIGHT: APPROX. 7,820 LBS.

Electric Service Required: 480V, 3 Phase, 40 Amps (custom input voltage kits available)
Pneumatic Service Required: 75 to 90PSI (5-6 Bar)
Approximate Shipping Weight 7800 lbs, (3546 kg)

Fixture hole patterns and dimensions.

UPPER TOOL

LIFT TABLE

Note: All specifications are subject to change without notice. Please consult Dukane for any updated information.