VWB4500
Vibration Welder
Table Size 38” (965mm) by 18” (455mm)

FEATURES
• Electromechanical vibration head assembly (200-240 Hz)
• Super rigid four rail table slide system
• One piece flame cut bridge (heaviest in class)
• Structural tubular steel table (heaviest in class)
• Solid state 30 hp digital variable frequency drive
• Hydraulic lift / clamp force maximum 4500 lbs. (20,000N) 20 gallon (75.6L) reservoir
• Allen-Bradley Compactlogix controller with add-on expansion available
• Allen-Bradley Panel View 700 full color touch screen HMI
• Intuitive and interactive comprehensive help menu
• Part parameter monitoring with programmable limits
• Programming for up to 4 part in place sensors included (sensors not included)
• Programming for up to 4 pneumatic valves included (valves not included)
• Programming for vacuum (vacuum generator and valve not included)
• Programming for tool ID included.
• Language capabilities, English and Spanish
• Automatic tuning with auto ping mode
• Programmable amplitude 0.020” to 0.070” (.05 to 1.8 mm)
• Weld by time or weld by distance (absolute or collapsed)
• Programmable Amplitude and Pressure profile up to 5 steps
• Interior work light
• Optical zero force cycle start activation switches
• Light curtain for single switch activation

SPECIFICATIONS
• Table and maximum lower tool size 38” x 18” (965 x 455 mm)*
• Door Opening 26” high x 41” wide (660 x 1040 mm)
• Upper tool weight 35 – 90 lbs. (15 - 40 kg)
• Upper tool maximum size 18” x 30” (450 x 760 mm)
• Low 41” (1040 mm) lift table height
• 20” (500mm) stroke, 25” (630mm) max. opening
• Small 44.5” x 81” (1.2 x 2.1 m) footprint
• 80 dB maximum in operation (continuous measurement)
• Pneumatic manifold will support additional 2 valves

Options
• Position adjustable cycle activation switches
• Exterior work light
• PLC options for Siemens or Mitsubishi available
• Custom paint specification
• Rear sliding door for pass through operation
• Programmable pneumatic valves for clamps and slides
• Programmable part-in-place sensing.

* Tooling can in some instances overhang the back of table by 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.
Vibration Welder Model VWB4500 Floor Layout

VWB4500

LIFT TABLE HOLE PATTERN

UPPER TOOL BOLT PATTERN

Fixture hole patterns and dimensions

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

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