

The DLVW-2248 is a hydraulic motion controlled digital (servo-electric) drive linear-vibration welder capable of welding parts up to 22" x 48" (559mm x 1219mm) or multiple smaller parts.

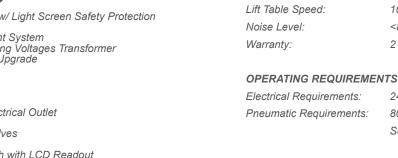
The patented 2-pole digital (servo) drive technology allows vastly improved process control while substantially increasing the available power. This technology offers improvements in overall efficiency (significant power increase), capability (amplitude/process control), and productivity (application benefits) beyond any vibration welding designed currently on the market.

Standard Features

- Patented High Output 2-Pole Digital (Servo) Electromagnetic Drive System allows higher efficiency and a significant increase in weldable area over industry standard 3-Pole systems. Can drive larger/heavier tools with a lower power demand.
- Up to 84 in² (543cm²) Weldable Surface Area (Polypropylene) the most powerful welder in its class.
- 0-155 lb (0-70kg) Upper Tool Weight capability makes this welder able to drive the heaviest production tools.
- Patented Position-Based Amplitude Control Network allows ramp up to full amplitude in as little as 0.04 seconds. Amplitude adjustment from 0.040" - 0.070" (1.02mm - 1.78mm) peak-to-peak in increments of 0.001". Over-Travel Protection that guards the machine from potentially damaging operation. X-Axis and Y-Axis (vibration direction and perpendicular to vibration direction) repeatability of < ±0.001"
- · Continuous Tuning by Closed-Loop Digital Control eliminates the need for a separate auto-tuning step during setup and assures that the machine operates at peak performance throughout the weld cycle.
- Allen Bradley MicroLogix PLC with PanelView Plus 7 600 Color 5.7" Touch-Screen Graphical Display simplifies parameter input and allows the following to be displayed.
 - Weld Program/Setup #
 - Frequency
 - Amplitude
 - Contact Time and Force
 - Weld Steps 1 through 8 (Time, Amplitude, Force)
 - Cooling Time and Force
- 10 Weld Program/Setup Memory allows storage for instant recall, minimizing tool change time.
- Process Verification Windows (pass/fail) compare and alarm the user when actual parameters are outside customer programmed minimums & maximums.
- Multi-Level Passcode Protection limits parameter adjustment to qualified personnel only
- Enhanced De-Coupled Sound Enclosure for maximum noise reduction (<80 dBA). Enclosure is completely de-coupled from the equipment frame to isolate noise from the swing frame
- Zero-Force Opti-Touch Cycle Start Switches minimize operator fatigue.
- Two Valve Lower Tooling Actuation Pneumatic Valve Pack allows user to program additional pneumatic motion on lower tooling such as part clamping or part eject.

Optional Features

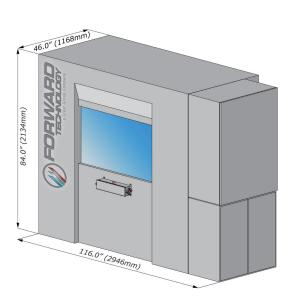
- "Pass-Thru" Rear Access Safety Door w/ Light Screen Safety Protection
- Extended Machine Height
- Precision Digital Distance Measurement System
- Special Energy Star Compliant Operating Voltages Transformer
 Larger Operator Interface and/or PLC Upgrade
- Pendant Arm Mounted User Interface
- LED Four Color Light Tower
- External Lighting
- Light Curtains • External Ethernet Port 120VAC 3A Electrical Outlet
- Quick Change Base Plates
 Lower Tooling Pneumatic Actuation Valves
- Upper Tooling Vacuum System
 Programmable Vacuum Sensing Switch with LCD Readout
- Quick Disconnect Outlets & Sensors





System includes Filter/Regulator/Lubricator

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MECHANICAL SPECIFICATIONS

Weight:	~6500 lbs (2948kg)
Overall Dimensions:	46.0" D x 116.0" W x 84.0" H
	(1168mm x 2946mm x 2134mm)
Front Door Opening:	27.5" H x 49.0" W
	(699mm x 1245mm)
Daylight Opening (between Lift Table & Drive Platen):	
	23.0" (584mm)

Lift Table:

Dimensions: 22	.0" D x 54.5" W (559mm x 1384mm)
Center Opening:	15.0" D x 35.5" W x 31.0" H
	(381mm x 901mm x 787mm)
Height from Floc	pr: 38.0" (965mm)
Variable Stroke:	20.0" (508mm)
Drive Platen:	
Dimensions:	14.7" D x 37.7" W (373mm x 958mm)
Center Opening:	7.0" D x 16.5" W x 12.0" H
	(178mm x 419mm x 305mm)

PERFORMANCE SPECIFICATIONS

Maximum Upper Tool Weight: 155 lbs (70kg) Maximum Weldable Area (Polyproplyene): 84.0 in² (542cm²) Output Frequency: 180Hz to 250Hz Amplitude Range: 0.040" - 0.070" (1.02 - 1.78mm) Peak-Peak Maximum Clamp Force: 5000 lbs @ 1500 PSI (22.3kN @ 103 Bar) 10.0"/second (254mm/second) <80 dBA 2 Years (Parts & Service)

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