

The ESVA-1015 is an extended stroke, vertical heat platen orientation, pneumatic motion controlled hot plate welding system capable of welding parts up to 10" x 15" (254mm x 381mm) or multiple smaller parts. Customized variants of this model are available.

When compared to horizontal platen systems, vertical systems typically:

- Allow faster tooling changeovers.
- Allow easier and more positive operator loading and unloading of the tooling.
- . Ensure more precise part half alignment during welding (less scrap) as no special part-part alignment features must be designed into the parts themselves (required for accurate machine pick-up of one part half on horizontal systems).

Standard Features

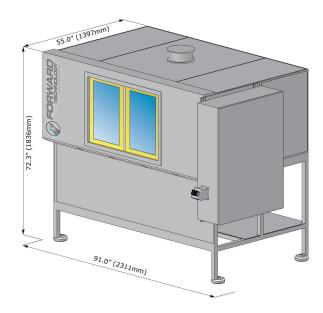
- Ultra-Rigid Construction utilizing a tubular steel framework with leveling feet and linear guide shafts & bearings designed for precise tool alignment through decades of use.
- Digital Single-Zone Temperature Control via PLC with Heater Burnout Alarm ensures even heating and precise temperature control with temperature alarm limits. Burnout alarm halts operation of the machine in the event of platen heater failure.
- Programmable Automatic Heat Platen Startup (Time/Date Based) saves production time as the machine can be user programmed to automatically initialize warm-up of heat platen before start of production.
- Allen Bradley MicroLogix PLC with PanelView Plus 7 700 Color 6.5" Touch-Screen Graphical Display simplifies parameter input and allows the following to be displayed:
 - Melt, Weld (Seal), & Open Time Digital Control & Display
 - Resettable Parts Counter
 - Non-Resettable Total Machine Cycle Counter
 - Diagnostic Display
 - Machine Alarms (history storage of up to 99 alarms)
 - Ethernet Connectivity

• Multi-Level Passcode Protection limits parameter adjustment to qualified personnel only.

- 10 Weld Program/Setup Memory allows storage for instant recall, minimizing tool change time.
- External 120VAC Duplex Electrical Outlet allows user to easily connect small auxiliary equipment such as computers, printers, radios, etc.
- Dual Venturi 25.0 in/Hg (63.5cm/Hg) Vacuum Pump System designed to secure even the largest parts within the tooling.
- Pneumatic Dual Power Sliding Safety Doors with Zero Force Cycle Activation Switch and Door Safety Tapeswitch provide optimum personnel protection while reducing operator fatigue.
- Hinged Access Panels with Safety Interlock Switches allow extensive access while providing maximum personnel protection.
- Vent Hood with Exhaust Fan evacuates airborne smoke and particulate from the operator location when welding at high temperatures without coatings.

Optional Features

- Hydraulic (VH) Operation
- Special Energy Star Compliant Operating Voltages
- Platen Cleaning Brush System
- Extended Stroke for Larger Parts
 Additional Temperature Control Zone with Heater Burnout Alarm
 Larger Operator Interface and/or PLC Upgrade
- Customized PLC Programming
- Pendant Arm Mounted User Interface
- LED Four Color Light Tower
- External Lighting
- Light Curtains Fork Lift Tubes
- Leveling Casters
- Pivoting Tool Mounting Jaws
 Quick Disconnect Outlets & Sensors
- Heat Platen & Tooling Fixture Storage Cart with Casters
- Pre-Heat Temperature Zone Station



MECHANICAL SPECIFICATIONS:

Weight:	
Overall Dimensions:	

Overall Dimensions:	55.0" D x 91.0" W x 72.3" H		
	(1397mm x 2311mm x 1836mm)		
Maximum Heat Platen:	10.0" D x 15.0" H (254mm x 381mm)		
Heat Platen Carriage Stroke (i	back-front): 12.0" (305mm)		
Heat Platen Assembly Lateral Stroke (side-side): 1.5" (38mm)			
Tool Mounting Jaws:	10.0" D x 15.0" H (254mm x 381mm)		
Daylight Opening (between Tool Mounting Jaws): 30.0" (762mm)			
Tool Mounting Jaw Stroke (each): 12.0" (305mm)			
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~1750 lbs (793kg)

Front Door Opening: 32.0" W x 23.8" H (813mm x 605mm)

PERFORMANCE SPECIFICATIONS:

Moving Tool Mounting Jaws:	Dual - Left and Right
Maximum Clamp Force:	660 lbs @ 80 PSI (2.94kN @ 5.5 Bar)
Dual Venturi Vacuum System.	: 25.0 in/Hg (63.5cm/Hg)
Thermal Temperature Range:	100°F - 1000°F (38°C – 538°C)
	Tooling and Application Dependent
Warranty:	1 Year (Parts & Service)

SYSTEM REQUIREMENTS:

Electrical Requirements:
Pneumatic Requirements

240VAC, 3PH, 60 Hz 80 PSI, 0.5" ID (5.5 Bar, 13mm ID) Supply Line

System includes Filter/Regulator/Lubricator



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