FORWARD TECHNOLOGY
a Crest Group Company

(shown with optional features)

VA-1015
Vertical Air Hot Plate Welder

The VA-1015 is a 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.

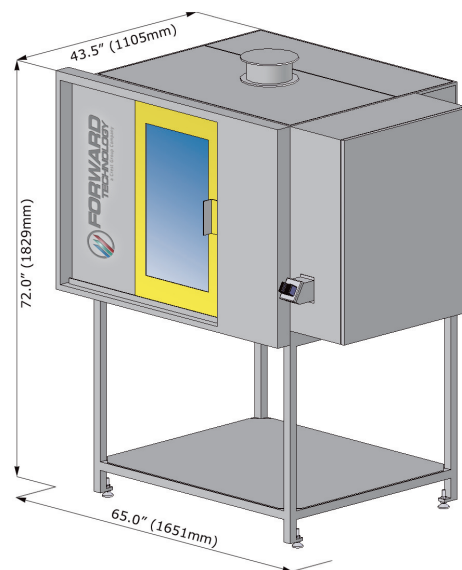When compared to horizontal platen systems, vertical systems typically:

- 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.

- **Automatic Cycle Start on Manual Safety Door Closure** eliminates the need to actuate start button(s). Door is equipped with captured lock and is interlocked to prevent opening while machine is in cycle.

- **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 Transformer
- 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:	~1500 lbs (680kg)
Overall Dimensions:	43.5" D x 65.0" W x 72.0" H
	(1105mm x 1651mm x 1829mm)
Maximum Heat Platen:	10.0" D x 15.0" H (254mm x 381mm)
Heat Platen Carriage Stroke (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):	21.0" (533mm)
Tool Mounting Jaw Stroke (each):	6.5" (165mm)
Front Door Opening:	22.0" W x 33.0" H (559mm x 838mm)

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

System includes Filter/Regulator/Lubricator

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260 Jenks Ave. SW
Cokato, Minnesota 55321
Phone: 320.286.2578
Fax: 320.286.2467
info@forwardtech.com
www.forwardtech.com