(shown with optional features)

HA-0816
Horizontal Air Hot Plate Welder

The HA-0816 is a horizontal heat platen orientation, pneumatic motion controlled hot plate welding system capable of welding parts up to 8" x 16" (203mm x 406mm) or multiple smaller parts. Customized variants of this model are available.

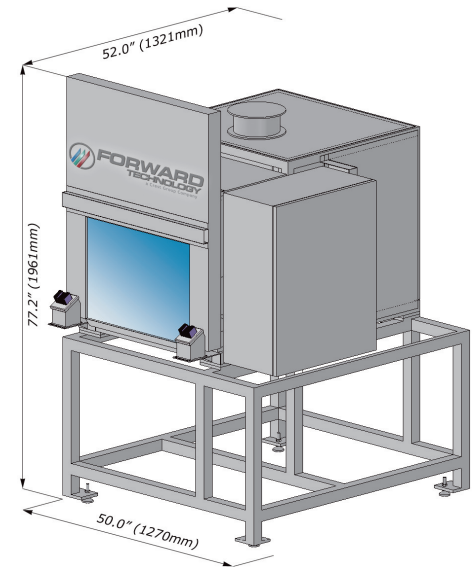When compared to vertical platen systems, horizontal systems typically:

- Are much better suited for part designs where internal components are loose inside one part half prior to welding.
- Allow easier loading of both part halves together into lower tool (requires part-part alignment features) using automatic pick-up of upper part half by upper tool.
- Allow the option of loading and unloading parts outside the machine (using optional power or manual lower tool carriage/drawer and automatic pick-up of upper part half).

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 Power Sliding Door with Safety Tapeswitch & Zero Force Cycle Activation Switch* provides 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

- Special Energy Star Compliant Operating Voltages
- Manual/Powered Tool Carriage/Drawer
- Part-Take-Away Conveyor
- Additional Temperature Control Zone with Heater Burnout Alarm
- Larger Operator Interface and/or PLC Upgrade
- Customized PLC Programming
- Pendant Arm Mounted User Interface
- Bilingual User Interface Panel and/or Equipment Manuals
- LED Four Color Light Tower
- External Lighting
- Safety Light Screen
- Fork Lift Tubes
- Leveling Casters
- Pivoting Upper Tool Mounting Jaw
- Quick Disconnect Outlets & Sensors
- Heat Platen & Tooling Fixture Storage Cart with Casters
- Pre-Heat Temperature Zone Station

52.0" (1321mm)

77.2" (1961mm)

50.0" (1270mm)

MECHANICAL SPECIFICATIONS:

Weight:	~950 lbs (431kg)
Overall Dimensions:	52.0" D x 50.0" W x 77.2" H
	(1321mm x 1270mm x 1961mm)
Maximum Heat Platen:	8.0" x 16.0" (203mm x 406mm)
Heat Platen Carriage Stroke (back-front):	12.0" (305mm)
Heat Platen Assembly Lateral Stroke (top-bottom):	2.0" (51mm)
Tool Mounting Jaws:	13.0" x 23.0" (330mm x 584mm)
Daylight Opening (between Tool Mounting Jaws):	14.0" (356mm)
Tool Mounting Jaw Stroke:	6.0" (152mm)
Front Door Opening:	25.0" W x 17.5" H (635mm x 445mm)

PERFORMANCE SPECIFICATIONS:

Moving Tool Mounting Jaw:	Single - Upper
Total Clamp Force:	390 lbs @ 80 PSI (1.74kN @ 5.5 Bar)
Dual Venturi Vacuum System:	25.0 in/Hg (63.5cm/Hg)
Thermal Temperature Range:	100ºF - 1000ºF (38ºC – 538ºC)
	Tooling and Application Dependent
Warranty:	1 Year (Parts & Service)

SYSTEM REQUIREMENTS:

Electrical Requirements:	240VAC, 3PH, 60 Hz
Pneumatic Requirements:	80 PSI, 0.375" ID (5.5 Bar, 10mm ID)
	Supply Line

System includes Filter/Regulator/Lubricator

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