

The HA-1224 is a horizontal heat platen orientation, pneumatic motion controlled hot plate welding system capable of welding parts up to 12" x 24" (305mm x 610mm) 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).

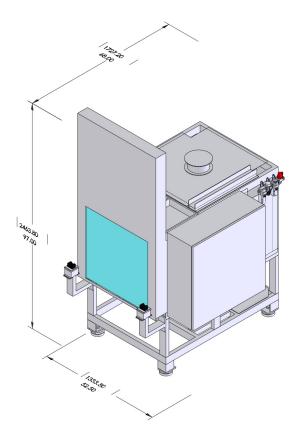
Standard Features

- 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 Two-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

- Hydraulic (HH) Operation
 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
- LED Four Color Light Tower
- External Lighting
- Light Curtains Fork Lift Tubes
- Leveling Casters
- Pivoting Tool Mounting Jaw
- Quick Disconnect Outlets & Sensors
- Heat Platen & Tooling Fixture Storage Cart with Casters
- Pre-Heat Temperature Zone Station



MECHANICAL SPECIFICATIONS:

Weight:	~2500 lbs (1134kg)	
Overall Dimensions:	68.0" D x 52.5" W x 97.0" H	
	(1727mm x 1334mm x 2464mm)	
Maximum Heat Platen:	12.0" x 24.0" (305mm x 610mm)	
Heat Platen Carriage Stroke (back-front): 15.0" (381mm)	
Heat Platen Assembly Lateral Stroke (top-bottom): 3.0" (76mm)		
Tool Mounting Jaws:	14.5" x 26.5" (368mm x 673mm)	
Daylight Opening (between Tool Mounting Jaws): 17.0" (432mm)		
Tool Mounting Jaw Stroke:	12.0" (305mm)	
Front Door Opening:	31.0" W x 31.0" H (787mm x 787mm)	

PERFORMANCE SPECIFICATIONS:

Moving Tool Mounting Jaw:	Single - Upper	
Total Clamp Force:	1000 lbs @ 80 PSI	
	(4.45kN @ 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:	ð

240VAC, 3PH, 60 Hz 80 PSI, 0.75" ID (5.5 Bar, 19mm ID) Supply Line

System includes Filter/Regulator/Lubricator

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