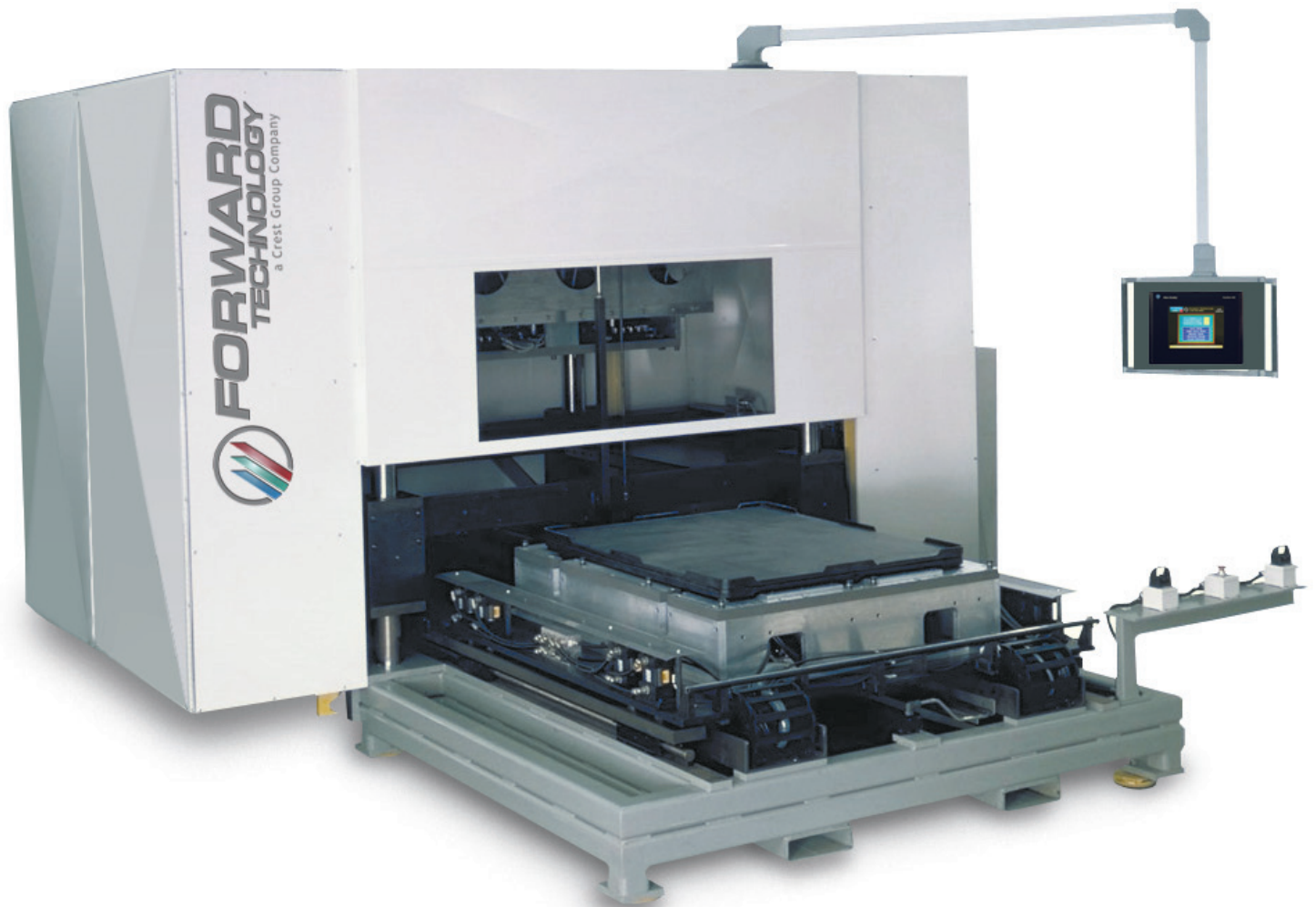




FORWARD TECHNOLOGY

a Crest Group Company



(shown with optional features)

HHS-5062

Horizontal Hydraulic & Servo Hot Plate Pallet Welder

The HHS-5062 is a horizontal heat platen orientation, hydraulic and servo-electric motion controlled hot plate welding system specifically designed for welding plastic pallets up to 50" x 62" (1270mm x 1575mm). Customized variants of this model are available.

The system design is ideal for welding:

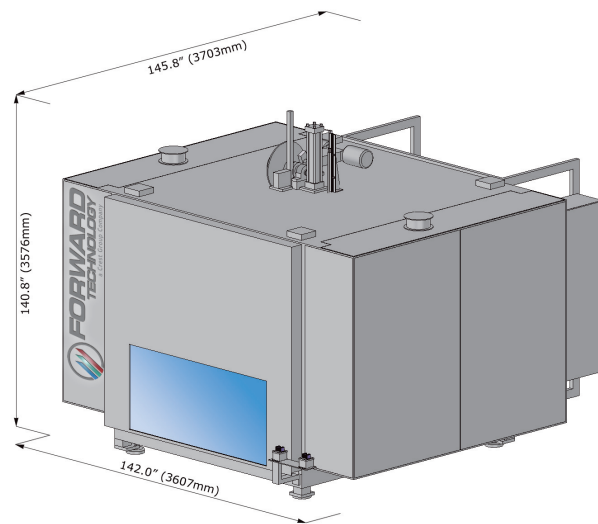
- Pallet top decks to bases.
- Pallet feet to bases.
- Pallet sidewall assemblies.

Standard Features

- **Massive 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.
- **Hydraulic System with Proportional Valve Control and Linear Position Transducers** offers improved control and reduced machine and coating wear by user programmed variable tool mounting jaws and heat platen carriage pressures and speeds, including "soft-touch" contact of part halves to heat platen (Melt) and each other (Weld/Seal).
- **Dual Heat Platen Halves with Servo-Electric Motion Control** improves weld strength by increasing speed of heat platens motion thereby reducing open time (between Melt and Weld/Seal steps). Lengthy open times reduce part strength by allowing molten material surfaces to partially solidify or "skin-over" prior to contact with one another.
- **Digital Four-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 Machine and Heat Platen Startup (Time/Date Based)** saves production time as the machine can be user programmed to automatically initialize warm-up of heat platen and hydraulic system before start of production.
- **Allen Bradley CompactLogix PLC with PanelView Plus 7 - 1000 Color 10.4" Touch-Screen Graphical Display** simplifies parameter input and allows the following to be displayed:
 - Melt, Weld (Seal), & Open Time Digital Control & Display
 - Individual Melt & Weld (Seal) Pressure & Speed Settings
 - Resettable Parts Counter
 - Non-Resettable Total Machine Cycle Counter
 - Diagnostic Display
 - Machine Alarms (history storage of up to 99 Alarms)
 - Ethernet Communication
- **Multi-Level Passcode Protection** limits parameter adjustment to qualified personnel only.
- **25 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.
- **Four Venturi 25.0 in/Hg (63.5cm/Hg) Vacuum Pump System** designed to secure even the largest parts within the tooling.
- **Powered (Electric) Lower Tool Carriage/Drawer** allows loading of both part halves outside the welder and makes automated loading/unloading possible. Electric motor/belt driven carriage assembly with Tapeswitch safety protection.
- **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
- Robotic Pallet Handling Automation Package
- LED Four Color Light Tower
- External Lighting
- Quick Disconnect Outlets & Sensors



MECHANICAL SPECIFICATIONS:

Weight:	~29000 lbs (13154kg)
Overall Dimensions:	145.8" D x 142.0" W x 140.8" H (3703mm x 3607mm x 3576mm)
Maximum Heat Platens:	Twin 50.0" D x 31.0" W (1270mm x 787mm) Total 50.0" D x 62.0" W (1270mm x 1575mm)
Heat Platens Stroke (side-side):	32.0" each (813mm)
Heat Platen Assembly Lateral Stroke (up-down):	13.0" (330mm)
Tool Mounting Jaws:	58.0" D x 64.0" W (1473mm x 1626mm)
Daylight Opening (between Tool Mounting Jaws):	44.5" (1130mm)
Tool Mounting Jaw Stroke:	28.0" (711mm)
Front Door Opening:	69.0" W x 22.0" H (1753mm x 559mm)

PERFORMANCE SPECIFICATIONS:

Moving Tool Mounting Jaw:	Single – Upper
Hydraulic System:	20.0 HP, 1750 RPM, 35.0 GPM (14.9kW, 1750 RPM, 132.5 LPM) 1000 PSI (68 Bar) Max. Pressure
Maximum Clamp Force:	8290 lbs @ 1000 PSI (36.90kN @ 68.0 Bar)
Venturi Vacuum System:	Four 25.0 in/Hg (63.5cm/Hg)
Thermal Temperature Range:	100°F - 500°F (38°C – 260°C) Tooling and Application Dependent
Warranty:	1 Year (Parts & Service)

SYSTEM REQUIREMENTS:

Electrical Requirements:	480VAC, 3PH, 60 Hz
Pneumatic Requirements:	80 PSI, 0.75" ID (5.5 Bar, 19mm ID Supply Line)

System includes Filter/Regulator/Lubricator



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