

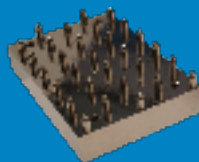


ThermalPress

INTERNATIONAL

Experts in Thermal Plastic Assembly

Thermal Press International (TPI) has been the industry leader in thermal press machines, technologies, and customized solutions used in the assembly of plastics for nearly 50 years!



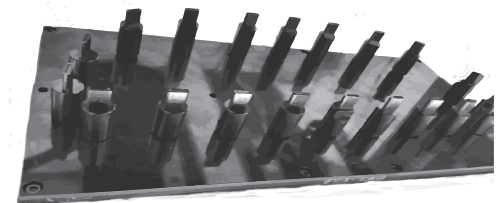
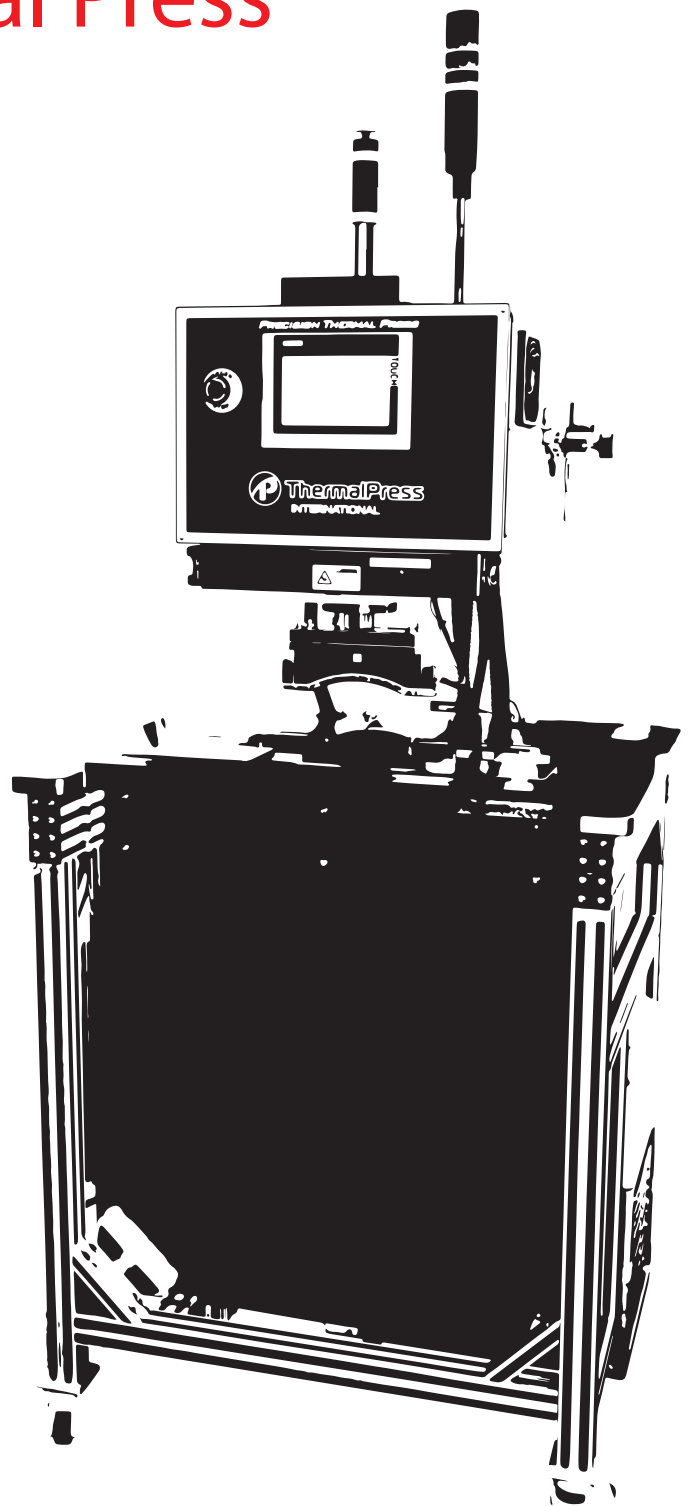
The Original Thermal Press

Thermal assembly of plastics has never been easier or more reliable with quality machines from Thermal Press International, Inc (TPI). We are experts in the field of heat staking, heat sealing, thermal insertion and swaging equipment and solutions used in the medical, automotive, telecom, appliance, consumer electronics, and aerospace industries.

TPI machines are installed in manufacturing facilities worldwide, supporting critical assembly operations across multiple industries. They feature fully customizable, interchangeable tooling packages that meet even the most demanding manufacturing requirements. We offer a range of workstations and custom systems that can operate independently or be fully integrated into high-volume automation systems.

At a time when industrial equipment is quickly becoming obsolete, our machines feature tooling that is interchangeable and standardized. This adaptability saves time and money and virtually eliminates the risk of our machines becoming outdated or obsolete.

All of our equipment is designed, manufactured and built at our Livermore, CA facility, ensuring high-quality craftsmanship. We back our products with an industry-leading 3-year warranty, along with highly rated customer support.



At Thermal Press International, we set the benchmark in designing robust, precision-engineered machines and advanced thermal assembly systems. Our equipment is ideal for a wide range of applications, including heat staking, swaging, sealing, insertion, film and filter sealing/welding, heat seal connectors, hot bar soldering, and other intricate assembly processes.

TPI machines integrate cutting-edge technology with advanced digital control and monitoring systems, ensuring consistent production of high-quality assemblies. This technological advantage not only enhances the precision and reliability of our machines but also significantly boosts production line throughput, maximizing return on investment (ROI)

Every TPI machine is tailored to meet your unique specifications. Our team works closely with you to develop customized process solutions and provide comprehensive engineering design support. Whether you require specialized clamping, extended cable runs, or multi-horizontal actuators and controls, we design our systems to optimize and streamline your assembly processes, delivering a complete turnkey solution. Additionally, our machines are built with ergonomic considerations in mind, incorporating safety mechanisms and user-friendly interfaces to ensure operator comfort and efficiency.

TPI Machines

C-Series Thermal Press



The C-Series Thermal Press, our most popular Thermal Press system, has an open “C-Frame” format engineered to accommodate all sizes of parts and assemblies.

H-Series Thermal Press



The H-Series Thermal Press provides higher forces for more demanding applications. The stout H-frame design will maintain planarity even during very high forces applied throughout the machine's cycle.

Multi-Workstation System



The Multi-WorkStation System is engineered to be scalable, robust, and easy to integrate. The Multi-WorkStation System can be installed into any automated production line. Each WorkStation can function as a standalone work cell or as part of a multi-operation assembly process.

Port Sealer Thermal Press



The Dual C-Series Thermal Press is also known as the Port Sealer and is a variation of our popular C-Series machine. It is an excellent choice for large format applications, such as medical port sealing and medical bag welding projects.

Custom TPI Machines (Examples)



More Advanced Options

Rotary Table Systems



TPI Rotary Table configurations include 2-8 position rotary systems in sizes from 16-inch diameter all the way up to 8 feet diameter. Machines with Rotary Table Systems increase production rates by 2X on your heat staking, heat sealing and assembly programs.

Roll Feed Systems*



TPI Roll Feed Systems provide accurate indexing of the materials on to the parts (multiple up) in sizes from 2- to 12-inch roll widths. TPI roll feed systems easily and conveniently allow for interchangeable rolls for machines with multiple applications.

Power Shuttle Tables



Power Shuttle Tables provide accurate indexing of the parts into and out of the machinery for quick and easy loading and unloading during production. TPI Power Shuttle Tables utilize our standard interchangeable tooling packages for easy setup and for production lines with multiple programs.

Boat-Tube Sealer Thermal Press



The Boat and Tube Sealer Thermal Press, a variation of our renowned C-Series machine and allows for the setup and operation of multiple boat fitments (ports) and tube sealing projects.

MicroLAB Series Thermal Press



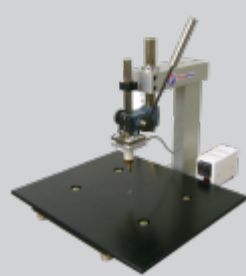
The MicroLAB Series Thermal Press offers the advanced features of our larger production systems in a compact design. MicroLAB is ideal for miniature to small-sized assembly applications, particularly in clean rooms and laboratory environments.

In-Line Conveyor Thermal Press



The SMEMA Conveyor-based Thermal Press Systems combine our H-Series Thermal Press machines with SMEMA standards, offering a fully scalable solution for the rapid integration of new equipment into existing SMEMA-compliant work cells.

Manual Thermal Press



The Manual Thermal Press is a versatile laboratory style machine for non-production or prototyping applications, or for extremely low production volumes..

Basic Options

- Available Options:
- Servo Actuators and Controls
 - Quick-Change Custom Tooling Packages
 - Vision and Inspection Systems
 - Part Detection and Verification
 - Data Acquisition Packages
 - OPCUA (SCADA) Packages
 - Integrated Force/Output Measurement
 - Integrated Load Cell
 - Automated Production Line Integration[¶]
 - Boat, Tube and Bag Locating Mandrel Systems[§]
 - Impulse Welding Technology and Control[§]
 - Chiller Device and Control[§]

[¶] Available on C-Series, H-Series and Multi-Workstation Systems only
[§] Available on Boat-Tube Sealer only

Clamping Systems



With some assemblies, it may be necessary to hold parts or components in place securely. Our pneumatic clamps can be designed in various configurations, including vertical, horizontal, and angled, to suit a wide range of applications.

Safety Light Curtain Systems



TPI machines work with optional safety light curtains to protect personnel from injury and machines from damage by guarding points of operation, access areas, and perimeters.

* Available on C-Series and H-Series only

These base models vary by size, force capabilities, production volume requirements, and/or specific project needs. All models include a standard cleanroom exhaust port.

Thermal Press International Machine Specifications

C-Series

- Electrical:
 - (Standard) 220VAC (15A MAX)
 - (Optional) 120VAC (15A MAX)
 - (Custom) 220VAC (15A MAX)
- Pneumatic (MAX):
 - 10-100 psi (0.7.7 bar), 2-4 SCFM
- Standard Stroke: 4 inches (102 mm)
- Throat Depth: 7.5 inches (190 mm)
- Column Height: 8+ inches (203+ mm)
- Force Output (MAX):
 - Model C25 = 300 lbs (136 kgs)
 - Model C50 = 1000 lbs (450 kgs)
- Weight: 175-250 lbs (75-114 kgs)
- Work Surface Requirements:
 - 24" W x 32" D x 30" H

H-Series

- Electrical:
 - (Standard) 220VAC (15A MAX)
 - (Optional) 120VAC (15A MAX)
 - (Custom) 220VAC (30A MAX)
- Pneumatic (MAX):
 - 10-100 psi (0.7.7 bar), 2-4 SCFM
- Standard Stroke: 4 inches (102 mm)
- Column Height: 10+ inches (250+ mm)
- Width: 20+ inches (508+ mm)
- Force Output (MAX):
 - Model H50 = 3 tons (2722 kgs)
- Weight: (w/o tooling) 220 lbs (100 kgs)
- Work Surface Requirements:
 - 24" W x 32" D x 30" H

MultiWorkstation

- Electrical:
 - (Standard) 220VAC (15A MAX)
 - (Optional) 120VAC (15A MAX)
 - (Custom) 220VAC (30A MAX)
- Pneumatic (MAX):
 - 10-100 psi (0.7.7 bar), 2-4 SCFM
- Standard Stroke: 4 inches (102 mm)
- Throat Depth: 7.5+ inches (190+ mm)
- Column Height: 8+ inches (203+ mm)
- Force Output (MAX):
 - Model WSM25 = 300 lbs (136 kgs)
 - Model WSM50 = 1000 lbs (450 kgs)
- Weight (est): 80 lbs (36 kgs)/WorkStation
- Work Surface Requirements:
 - 24" W x 32" D x 30" H

MicroLAB

- Electrical:
 - 120VAC (15A MAX)
 - 220VAC (20A MAX)
- Pneumatic:
 - 100 psi (MAX), 1-2 SCFM
- *Custom Stroke: 1-2 inches (25-51 mm)
- *Force Output (MAX):
 - 100 lbs (45 kgs)
- *Weight: 30 lbs (14 kgs)
- *Work Surface Requirements:
 - 13" W x 17" D x 10-20" H

**Varies based on application specs*

Port Sealer

- Electrical:
 - (Standard) 220VAC (15A MAX)
 - (Optional) 120VAC (15A MAX)
 - (Custom) 220VAC (30A MAX)
- Pneumatic (MAX):
 - 10-100 psi (0.7.7 bar), 2-4 SCFM
- Standard Stroke: 8 inches (203 mm)
- Throat Depth: 15.75 inches (400 mm)
- Column Height: 8+ inches (203+ mm)
- Force Output (MAX):
 - Model DC25 = 300 lbs (136 kgs)
 - Model DC50 = 1000 lbs (450 kgs)
- Weight (est): 250-325 lbs (114-148 kgs)
- Work Surface Requirements:
 - 30" W x 32" D x 78" H

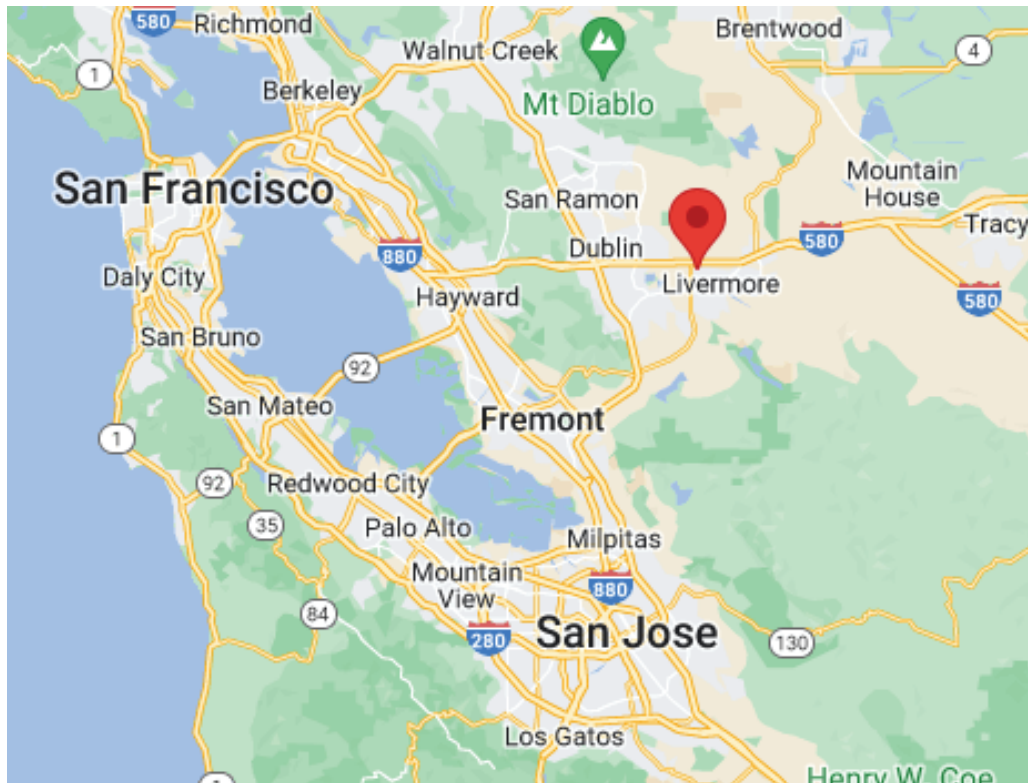
Boat-Tube Sealer

- Electrical:
 - (Standard) 220VAC (15A MAX)
 - (Optional) 120VAC (15A MAX)
 - (Custom) 220VAC (15A MAX)
- Pneumatic (MAX):
 - 10-100 psi (0.7.7 bar), 2-4 SCFM
- Standard Stroke: 7.5 inches (191 mm)
- Throat Depth: 15.75 inches (400 mm)
- Column Height: 4 inches (102 mm)
- Force Output (MAX):
 - Model C25 = 300 lbs (136 kgs)
 - Model C50 = 1000 lbs (450 kgs)
- Weight (est): 250-325 lbs (114-148 kgs)
- Work Surface Requirements:
 - 35" W x 33" D x 77" H

All specifications may vary

Thermal Press International

**Your Plastic Assembly Experts - Engineering Solutions
since 1976!**



Thermal Press International, Inc.
4555 Las Positas Road Suite A
Livermore, CA 94551 USA

Tel: 925-454-9800

Sales: tpisales@thermalpress.com
Support: tpisupport@thermalpress.com

