

*For Heat Staking & Heat Sealing Applications*



**SONITEK®**

**VERTEX BASIC Series**

## **NEW** LOW COST BASIC DUTY HEATSTAKING PRESSES

Sonitek's new VERTEX SERIES Heatstaking presses are designed with our 35 years of expertise as compact precision systems that are packed with advanced features and options to make your thermal application run more reliably and more repeatable than ever before!



**Vertex Basic Series** are designed to be used across a wide spectrum of thermal applications including these and many others:

- Heatstaking Heat Swaging, Heat Sealing all thermoplastics materials
- Encapsulation and Installing Threaded Inserts, Torque and Compression Limiters and other fasteners
- Sealing Membranes and other Filter and Film materials
- Date-Coding and Serializing Components
- Hot-knife degating & Trimming applications
- Heat Sealing connectors (HSC) to printed circuit boards (PCB)
- 100% compatible with most older tooling designs.

The new Vertex Basic Series Thermal Presses are available in many different models and configurations from Bench Top Presses to Linear Thrusters of all sizes for tight spots and automation integration. **Need Advanced Process Control?** See our new Vertex Series self calibrating Max systems.



**SONITEK**

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# VERTEX *Basic Series*

For Heat Staking & Heat Sealing Applications

Over 35 years of expertise!

## Sonitek Vertex BASIC Series Thermal Presses!

The Vertex Basic Series thermal press is our new low cost compact bench top system with easy to use touch screen controls.

Available in three sizes the BASIC heatstaking press system is an ideal compact bench-top press for small precision thermal or heatstaking operations. Forces range from 0-1560 lbs depending on model chosen and they are available with up to 4 integrated temperature controllers.

**Available in 120 or 220 Volt systems**

**(CE upgrade available, requires 220 volt.)**

**All Sonitek Vertex Series Thermal Presses are available with these standard features and additional options:**

### KEY Features:

- Multi bolt hole circle patterns in base for mounting lower jigs/fixtures.
- Rugged head assembly with non-rotation designs.
- Pre-drilled and Counterbored through holes for easy upper tool mounting.
- Velocity and Depth Control Unit (VCU) provides more precise control for head speed and final stroke distance.
- Pre-lubricated cylinder is suitable for oil free use.
- All presses are virtually maintenance-free as all moving parts are mounted in bushings and/or bearings.
- Two hand anti tie down safety circuitry on ALL bench-top models
- Dual palm start buttons with optional Opto-Touch (Zero Force)
- Air Filter & Regulator with Tag out /Lock out.
- Adjustable nomenclature for optimizing process including gross head height, stroke in .001" increments, pressing forces, and stroke speeds.
- Easy change over to different tool and part heights via height adjustment crank with lock.
- Easy upper tool mount options including optional quick change precision dovetails with standard mounting plate.
- Optional base-mounted leveling plate for fixture squaring.
- Optional Upgrades: Machine Stands, Film Feeders, Less Base, Remote Start Cable

Sonitek's Vertex Series Heatstaking Presses are designed to help you reduce the cost of both implementation and actual production in your assembly and pressing operations! ISO? See our advanced process controlled system with calibration features!

These small compact easy to use presses are ideal when precision matters for small heat-staking & sealing, forming, insertion, swaging, riveting membrane sealing or any other task that may require the use of compact precision assembly presses for your production floor! Since 1989, Sonitek has been producing high quality innovative and technologically advanced secondary assembly systems! Sonitek is the Market Leader for precise and innovative Heat Staking and Heat Sealing Systems & Tooling.

For more information about our Heatstaking Presses and the additional Sonitek products used in plastic assembly systems and joining operations please contact us today!

**See more at: [www.sonitek.com](http://www.sonitek.com)**

### Other products by Sonitek:

Ultrasonic Welding Equipment • Buy and Sell Used Welders • Heatstaking Equipment • Plastic Assembly Systems • Air Presses

## Thermal Thrusters/Actuators

### READY FOR REMOTE USE AND INTEGRATION

The Sonitek Precision thermal thrusters LT Series (LT = Linear Thruster/actuator only) are compact rigid units designed for installation into semi automated or fully automated systems and can be mounted in ANY orientation or direction. Don't buy just any air cylinder when you can get these precise pneumatic thrusters designed for robust and precise use in heatstaking and thermal processing operations.



## Available Options



**Velocity/Depth Control (VCU Unit)**  
Velocity and Depth Control Unit (VCU) provides more precise control for head speed and final stroke distance. Two models available with long and short stroke options.



**Slide Table**  
Load parts "Out and Away" from pressing area. Makes assembly easy!



**Quick Change Head Assembly**  
Change tools rapidly and precisely with precision dovetails and gibs.



**Leveling Squaring Base Sub-Plate**  
Use this fully adjustable base sub-plate to square up your fixture to the upper tooling to ensure parallelism between both upper and lower tooling.



**Zero Force Opto-Palm Buttons**  
Reduce operator fatigue and help prevent Carpal Tunnel Syndrome with this option.

# VERTEX BASIC Thermal Presses

## MODEL VB-3 BASIC Thermal Press

This compact bench-top heatstaking press is ideal for small applications. The model S-3 is capable of up to **390 lbs. of force**. It is available with up to two temperature zones with more if needed on a separate controller. These modular designed presses are also available without the base (LB Models) for use in custom systems. Actuator/Thruster (LT Models) available without stand or base for remote/tight locations.

### Specifications:

Model:	BASIC VB3
Power requirements:	110 or 220V
Current draw:	Application Dependent
Pneumatic requirements:	Clean Dry Air @ 100 PSIG (690 kPa) Maximum
Max. Force on part @ 100 PSIG	390 lbs (177kg)
Air Consumption in CFM at 5 CPM:	0.56 CFM at full stroke of 4.9"
Stroke Length:	4.9" (125mm)
Head Height Clearance:	0-18" (0-330mm)
Throat Depth:	4" (100mm)
Weight:	125 lbs (56kg)
Ambient Operating Temperature:	41-122 F (5-50C)

*\*Specifications subject to change without notice. All rights reserved.*

## Model VB5 BASIC Thermal Press

This compact bench-top heatstaking press is ideal for small applications. The model S-5 is capable of up to **610 lbs. of force**. It is available with up to 6 temperature zones with more if needed on a separate controller. These modular designed presses are also available without the base (LB Models) for use in custom systems. Actuator/thruster (LT Models) available without stand or base for remote/tight locations.

### Specifications:

Model:	BASIC VB5
Power requirements:	110 or 220V
Current draw:	Application Dependent
Pneumatic requirements:	Clean Dry Air @ 100 PSIG (690 kPa)
Maximum Force on part @ 100 PSIG:	610 lbs (276kg)
Air Consumption in CFM at 5 CPM:	0.88 CFM at full stroke of 4.9"
Stroke Length:	4.9" (125mm)
Head Height Clearance:	0-22" (140-673mm)
Throat Depth:	6" (152mm)
Weight:	155 lbs (95kg)
Ambient Temperature:	41-122 F (5-50C)

*\*Specifications subject to change without notice. All rights reserved.*

See more at: [www.sonitek.com](http://www.sonitek.com)

## MODEL VB10 BASIC Thermal Press

This compact bench-top heatstaking press is ideal for small applications. The model S-10 is capable of up to **1560 lbs. of force**. It is available with up to 12 temperature zones with more if needed on a separate controller. These modular designed presses are also available without the base (LB Models) for use in custom systems. Actuator/Thruster (LT Models) available without stand or base for remote/tight locations.

### Specifications:

Model:	BASIC VB10
Power requirements:	110 or 220V
Current draw:	Application Dependent
Pneumatic requirements:	Clean Dry Air @ 100 PSIG (690 kPa)
Maximum Force on part @ 100 PSIG:	1560 lbs (707 kg)
Air Consumption in CFM at 5 CPM:	1.76 CFM at full stroke of 4.9"
Stroke Length:	4.9" (125mm)
Head Height Clearance:	5.5" - 26.5" (140-673mm)
Throat Depth:	6" (152mm)
Weight:	210 lbs (70 kg)
Ambient Temperature:	41-122 F (5-50C)

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**Looking for Ultrasonic Welders?** Sonitek has a complete inventory of certified pre-owned warranted ultrasonic welders from Branson® & Dukane®. Sonitek also offers a complete line of new/used booster horns, converter/transducers, ultrasonic welding horns(new and used), and ultrasonic welder spare parts.



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**For Heatstaking & Heatsealing Applications**

# Custom Heat Staking Machines

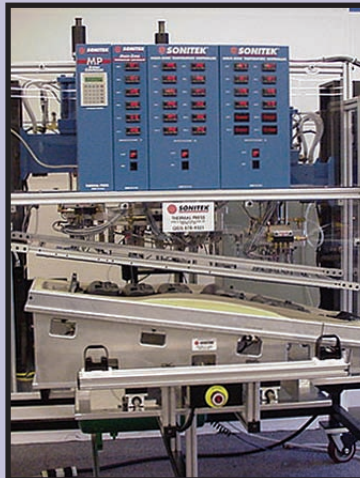
Sonitek builds custom heat staking machines to meet all your application requirements



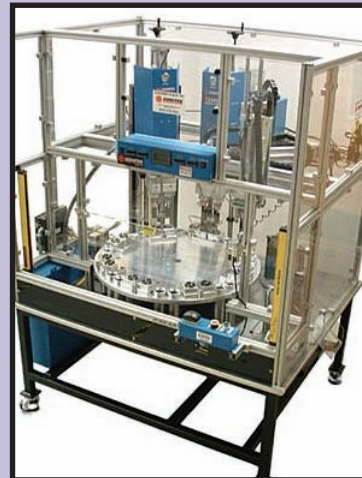
Custom designed heatstaking system.



2-Position Rotary with light curtain



Three Headed Automotive Custom System



Dual Head Rotary for Medical Parts



4-Station Rotary with Auto-eject



5 Ton Press for Heatstaking



2.5 Ton Bench-top Press

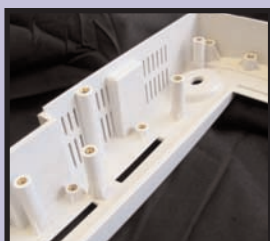


4 Cylinder Custom Press

## Application Examples



Sealing  
Membrane/Filter



Insertion  
Multi-point/plane



Insertion  
Install 1 or 100+ inserts



Heatstaking  
Multiple points and planes



Heat Staked Boss  
High quality look



# SONITEK®

SEE MORE EXAMPLES AT: [WWW.SONITEK.COM](http://WWW.SONITEK.COM)

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