

For Heat Staking & Heat Sealing Applications



SONITEK[®]

Spectrum
Ultra Series

ADVANCED HEAT STAKING SYSTEMS

The Spectrum ULTRA Series thermal press is our new compact bench top system with easy to use COLOR touch screen controls and additional options for accessories and process control.



Spectrum Ultra Series are designed to be used across a wide “Spectrum” of thermal applications including these and many others:

- Heatstaking and Heat Swaging 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 older tooling designs.

Spectrum Ultra Series 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.
- Micro-adjustable positive stop standard
- 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.
- Advanced controls through color HMI with password protection.
- 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 adjustme crank with lock.
- Easy upper tool mount options including optional quick change precision dovetails with standard mounting plate.
- Parts counter option (resettable) available on all models
- Velocity and Distance Control using Sonitek's NEW Proprietary optional VCU Device (Velocity & Distance Control Unit) Patent Pending.
- Optional base-mounted leveling plate for fixture squaring.

Sonitek's NEW Spectrum Series Heatstaking Presses are engineered to help you reduce the cost of both implementation and actual production in your assembly and pressing operations.

These small compact presses are ideal when precision matters for small heatstaking & 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!



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 Carpel Tunnel Syndrome with this option.

Spectrum ULTRA Series Thermal Presses

Model S-3 ULTRA Thermal Press

This compact bench-top heatstaking press is ideal for small applications. The model S-3 ULTRA is capable of up to **390 lbs. of force** (Higher force models also available). It is available with up to Six (6) or 12 temperature zones. 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:	ULTRA S-3
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:	0-13" (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 S-5 ULTRA Thermal Press

This compact bench-top heatstaking press is ideal for small applications! The model S-5 ULTRA is capable of up to **610 lbs. of force** (Higher force models also available). It is available with up to Six (6) or 12 temperature zones. 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:	ULTRA-5
Power requirements:	120 or 240V
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:	.88 CFM at full stroke of 4.9"
Stroke Length:	4.9" (125mm)
Head Height Clearance:	0-22" (152mm)
Throat Depth:	6" (152mm)
Weight:	155 lbs (95kg)
Ambient Temperature:	41-122 F (5-50C)

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Model S-10 ULTRA Thermal Press

This compact bench-top heatstaking press is ideal for small applications! The model S-10 ULTRA is capable of up to **1560 lbs. of force** (Higher force models also available). It is available with up to 6 or 12 temperature zones. 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:	ULTRA-10
Power Requirements:	120 or 240V
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 NEW Sonic Welders? Sonitek S840 and S870 (known worldwide as the Branson model 8400 and 8700) are the most reliable and easiest to use ultrasonic welders ever built.

Sonitek also offers a complete line of new/used booster horns, converter/transducers, ultrasonic welding horns (new and used), and ultrasonic welder spare parts.



Need Tooling?
Our reputation in designing and debugging custom tooling is unsurpassed in the industry.
Request a Quote



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For Heatstaking & Heatsealing Applications



Custom Heat Staking Machines

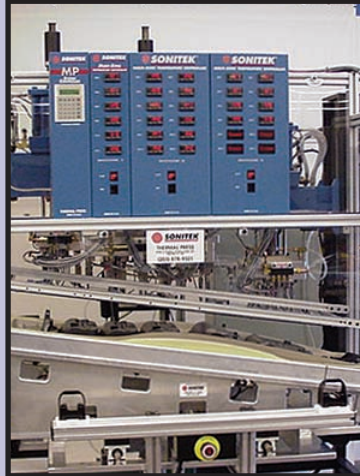
Sonitek builds custom heat staking machines to meet all your application requirements



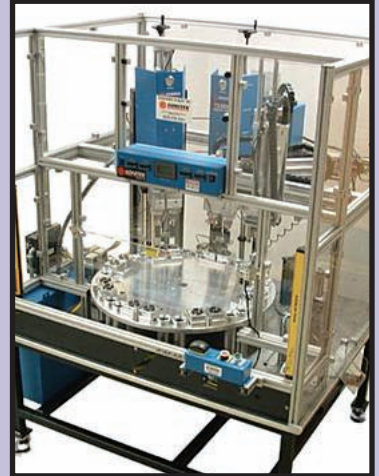
Custom Designed Heatstaking System.



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

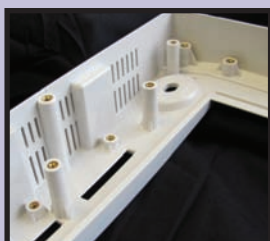


1.5 Ton Bench-Top Press

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



SEE MORE EXAMPLES AT: WWW.SONITEK.COM

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