



SONITEK®



Pneumatic Presses

For Precision Pressing and Assembly.



DT (Digital Timers) Bench-top Presses:

These air presses are equipped with process controls including Digital Timers and Parts Counters. They can operate at 120V or 240V and are available with more options and features than the AP Models.

AP (All Air) Bench-top Presses:

These bench-top presses are available in three force ranges and are all air operated systems requiring No Electrical Power! They are also available without bases (LB Models) for use in custom systems.

RS (All Air) Bench-top Presses:

RS Series (RS = Rugged & Small) Air Presses are our lowest cost bench-top air presses available in multiple force ranges and are all air operated systems requiring No Electrical Power! They are also available without bases (LB Models) for use in custom systems.

AP Air Presses: "PLUG AND PLAY"!

Model AP-3 All Air Press

This bench-top press is an all air operated system requiring No Electrical Power! The model AP-3 is capable of up to 325 lbs. of force (Lower force models also available). 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:	AP-3
Power Requirements:	NONE
Current Draw:	NONE
Pneumatic Requirements:	Clean Dry Air @ 100 PSIG (690 kPa) Maximum
Max. Force on part @ 100 PSIG:	325 lbs (147.4kg)
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 AP-5 All Air Press

This bench-top press is an all air operated system requiring No Electrical Power! The model AP-5 is capable of up to 510 lbs. of force (Higher/Lower force models also available). 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:	AP-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:	510 lbs (231.3 kg)
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" (152mm)
Throat Depth:	6" (152mm)
Weight:	155 lbs (95kg)
Ambient Temperature:	41-122 F (5-50C)

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Model AP-10 All Air Press

This bench-top press is an all air operated system requiring No Electrical Power! The model AP-10 is capable of up to 1400 lbs. of force (Lower force models also available). 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:	AP-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:	1400 lbs (635 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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SpectrumSeries NEW Heatstaking Presses

Sonitek's new SPECTRUM SERIES Heatstaking presses are designed with our 25 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 repeatably than ever before!



SONITEK®

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AP Pneumatic Presses

AP Air Presses: PLUG AND PLAY!

The Sonitek Air Press AP Series (AP = All Air Press) bench-top air press runs entirely on shop air and requires No electrical power to operate. Available in three cylinder sizes the AP all air press system is an ideal compact bench-top press for small precision pressing operations. Pressing forces range from 0-1400 lbs depending on model chosen.

AP KEY FEATURES:

- No electricity required for AP models (runs fully on shop air alone)
- 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 (VCU optional)
- 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.
- 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 and 3/4" shank mounts with standard mounting plate.
- Parts counter option (resettable) available on all models
- Velocity and Distance Control option using Sonitek's Proprietary optional VCU Device (Velocity & Distance Control Unit) Patent Pending.
- Optional base-mounted leveling plate for fixture squaring.

Sonitek Air 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 crimping, heat sealing, bending, forming, pressing, swaging, riveting, burnishing or any other task that may require the use of small pneumatic presses for your production floor. They take up very little space.

Since 1989, Sonitek has produced high quality innovative and technological advances into the field of secondary assembly operations. Sonitek is the Market Leader for innovative Heat Staking and Sealing Systems and Tooling.

Thermal Thrusters/Actuators

**READY FOR REMOTE USE
AND INTEGRATION**

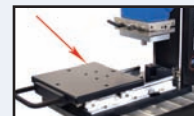
The Sonitek Precision thermal thrusters LT Series (LT = Linear Thruster/actuator only) are compact rigid units designed for installation into semi automated or fully automated systems and can be mounted in ANY orientation or direction. Don't buy just any air cylinder when you can get these precise pneumatic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



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.

DT Air Presses

Model DT-3 Air Press

This bench-top air press is equipped with electronic digital dwell timers and parts counter! The model DT-3 is capable of **up to 325 lbs. of force** (Higher force models also available). 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:	DT-3
Power Requirements:	120V or 240V
Current Draw:	Less than 1 amp
Pneumatic Requirements:	Clean Dry Air @ 100 PSIG (690 kPa) Maximum
Max. Force on part @ 100 PSIG:	325 lbs (147.4kg)
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)

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Model DT-5 Air Press

This bench-top air press is equipped with electronic digital dwell timers and parts counter! The model DT-5 is capable of **up to 510 lbs. of force** (Higher/Lower force models also available). 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 locations.



Specifications: ☹☹

Model:	DT-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:	510 lbs (231.3 kg)
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" (152mm)
Throat Depth:	6" (152mm)
Weight:	155 lbs (95kg)
Ambient Temperature:	41-122 F (5-50C)

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Model DT-10 All Air Press

This bench-top air press is equipped with electronic digital dwell timers and parts counter! The model DT-10 is capable of **up to 1400 lbs. of force** (Lower force models also available). 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 locations.



Specifications: ☹☹

Model:	DT-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:	1400 lbs (635 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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At Sonitek, we are Application Engineers.

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.



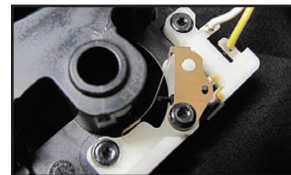
Sealing Membrane/Filter



Insertion Multi-point/plane



Insertion Install 1 or 100+ inserts



Heatstaking Multi-points/plane



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DT Pneumatic Presses

DT Air Presses: READY FOR "PLUG AND PLAY"!

The Sonitek Air Press DT Series (DT = equipped with digital timers) bench-top air press are equipped with process controller for digital dwell time and parts counter.

Available in either 120V or 240V (50/60Hz) and with three different force models the DT Digital Timed air press system is an ideal compact bench-top system for small precision pressing operations. Pressing forces range from 0-1400 lbs depending on model chosen.

DT KEY FEATURES:

- Digital electronic dwell timer.
- Multi bolt hole circle patterns in base for mounting lower jigs/fixtures.
- Rugged head assembly with non-rotation designs.
- Pre-drilled and tapped upper tool mounting plate.
- Micro-adjustable positive stop standard (VCU optional).
- 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 push buttons for cycle start with emergency stop.
- 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.

OPTIONS and ACCESSORIES

- Dual Opto-touch (Zero Force) palm buttons with finger guards.
- Quick change precision dovetail for upper tooling mounts.
- 3/4" shank mounts with standard tapped mounting plate.
- Electronic Digital Parts Counter with reset control.
- Velocity and Distance Control option using Sonitek's Proprietary optional VDCU Device (Velocity & Distance Control Unit) Patent Pending.
- Optional base-mounted leveling plate for fixture squaring.
- Two-position manual slide table.
- Machine stands with casters.
- Custom tooling and Guard packages available (RFQ).

Sonitek Air 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 for small crimping, heat sealing, bending, forming, pressing, swaging, riveting, burnishing or any other task that may require the use of small pneumatic presses for your production floor.

Thermal Thrusters/Actuators

READY FOR REMOTE USE AND INTEGRATION

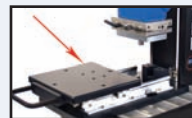
The Sonitek Precision thermal thrusters LT Series (LT = Linear Thruster/actuator only) are compact rigid units designed for installation into semi automated or fully automated systems and can be mounted in ANY orientation or direction. Don't buy just any air cylinder when you can get these precise pneumatic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

Pneumatic Presses

RS (All Air) Bench-top Presses:

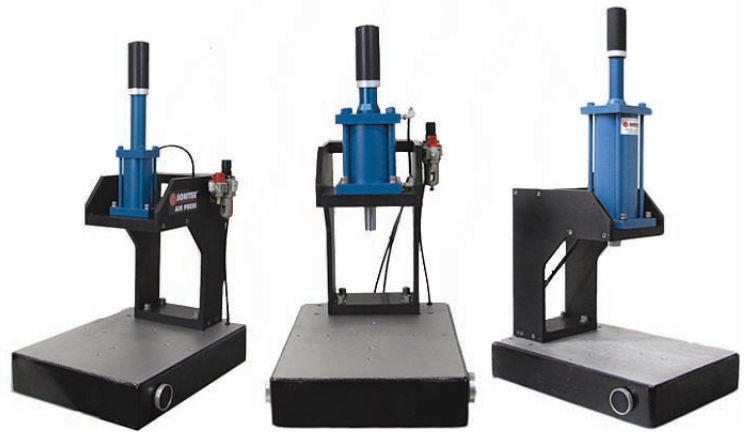
Sonitek's RS Series air presses are our small and rugged bench-top air presses ideal for light pressing operations. The Sonitek RS Series (RS = Rugged and Small) are precision compact units designed for use on bench tops or installation into semi automated or fully automated systems by removing the rigid upright frame from the base and can be mounted in ANY orientation or direction. Don't buy just any air cylinder when you can get these precise pneumatic presses designed for robust and precise use.

KEY FEATURES:

- 4.0" stroke length adjustable from 0-full Stroke
- Rugged head assembly with non-rotation design.
- Micro-adjustable positive stop standard
- Rugged head assembly with non-rotation designs.
- Pre-lubricated cylinder is suitable for oil free use.

OPTIONS and ACCESSORIES:

- Pneumatic control remote package kit with 24V solenoid valve, filter, gauge and regulator.
- Longer strokes (any) or shorter too.
- Custom tooling and Guard packages available



Available Models

RS (All Air) Bench-top Presses:



MODEL:	RS-5	RS-10	RS-20
Power requirements:	NONE	NONE	NONE
Current draw:	NONE	NONE	NONE
Pneumatic requirements:	Clean Dry Air@100 PSIG Max (690 kPa)	Clean Dry Air @100 PSIG Max (690 kPa)	Clean Dry Air @100 PSIG Max (690 kPa)
Maximum Force on part	440 lbs (200 kg)	1200 lbs (544 kg)	2400 lbs (1080 kg)
Air Consumption in CFM at 5 CPM:	0.56 CFM at full stroke of 4.9"	0.88 CFM at full stroke of 4.9"	1.76 CFM at full stroke of 4.9"
Stroke Length	4.0" (101mm)	4.0" (101mm)	4.0" (101mm)
Head Height Clearance	10" (254mm)	10" (254mm)	10" (254mm)
Throat Depth	6" (152mm)	6" (152mm)	6" (152mm)
Weight (untooled)	125 lbs (56 kg)	130 lbs (58 kg)	135 lbs (60 kg)
Ambient Operating Temp.	41-122 F (5-50C)	41-122 F (5-50C)	41-122 F (5-50C)

Pneumatic Presses

AP Air Presses: “PLUG AND PLAY”!

The Sonitek Air Press AP Series (AP = All Air Press) bench-top air press runs entirely on shop air and requires No electrical power to operate! Available in three cylinder sizes the AP all air press system is an ideal compact bench-top press for small precision pressing operations. Pressing forces range from 0-1400 lbs depending on model chosen.

KEY FEATURES:

No electricity required for AP models (runs fully on shop air alone)

Multi bolt hole circle patterns in base for mounting lower jigs/fixtures.

Rugged head assembly with non-rotation designs.

Pre-drilled and Counterbore through holes for easy upper tool mounting.

Micro-adjustable positive stop standard (VCU optional)

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

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.

Available Models

AP Air Presses:



MODEL:	AP-3	AP-5	AP-20
Power requirements:	NONE	NONE	NONE
Current draw:	NONE	NONE	NONE
Pneumatic requirements:	Clean Dry Air@100 PSIG Max (690 kPa)	Clean Dry Air @100 PSIG Max (690 kPa)	Clean Dry Air @100 PSIG Max (690 kPa)
Maximum Force on part	325 lbs (147.4 kg)	510 lbs (231.3 kg)	1400 lbs (635 kg)
Air Consumption in CFM at 5 CPM:	0.56 CFM at full stroke of 4.9”	0.88 CFM at full stroke of 4.9”	1.76 CFM at full stroke of 4.9”
Stroke Length	4.9” (101mm)	4.9” (101mm)	4.9” (101mm)
Head Height Clearance	0-13” (0-330mm)	0-22” (0-559mm)	5.5”-26.5” (673mm)
Throat Depth	4” (100mm)	6” (152mm)	6” (152mm)
Weight (untooled)	125 lbs (56 kg)	155 lbs (70 kg)	210 lbs (95 kg)
Ambient Operating Temp.	41-122 F (5-50C)	41-122 F (5-50C)	41-122 F (5-50C)

For Heatstaking & Heatsealing Applications



Custom Heat Staking Machines

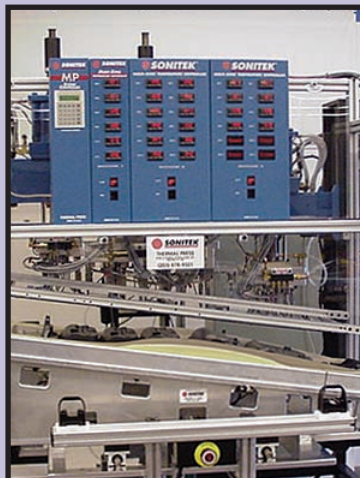
Sonitek builds custom heat staking machines to meet all your application requirements



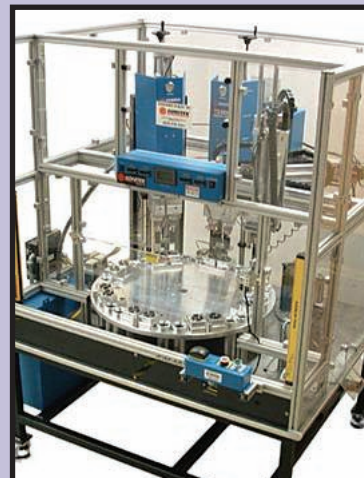
Custom Designed Heatstaking System.



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

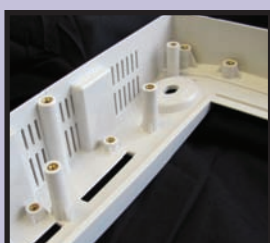


1.5 Ton Bench-Top Press

Application Examples



Sealing
Membrane/Filter



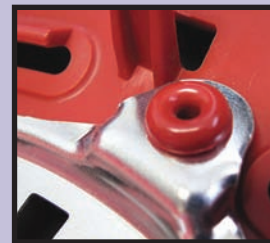
Insertion
Multi-point/plane



Insertion
Install 1 or 100+ inserts



Heatstaking
Multiple points and planes



Heat Staked Boss
High quality look



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SEE MORE EXAMPLES AT: WWW.SONITEK.COM

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