Leaders in the field of ultrasonic plastics welding equipment and technology since 1969, Sonics & Materials introduces its new 20 kHz X-Press integrated welder, an all-in-one super-rigid ultrasonic press that combines power, versatility and microprocessor control in one convenient unit.

The X-Press easily handles significantly larger part size and force requirements and delivers consistent reliability for every application. The built-in microprocessor with easy-access front-panel keypad provides streamlined smart-logic navigation through user-friendly welding mode controls and displays.
X-Press features

- Single Piece Rigid Cast Aluminum Machine Base and Column Hub
- Super-rigid 3.75" Steel Column Diameter with 0.5" Wall Thickness
- Single Rail Linear Slide
- Direct In-Line Air Cylinder
- Front Panel Pneumatic Speed and Pressure Controls
- Microprocessor with Front Panel Keypad

specifications, additional features, and options

Dual Cycle Start Buttons Standard
Non-Contact Cycle Start Buttons Optional
Front Emergency Stop Standard
Head Adjust Counterbalance Spring Standard
Adjustable Positive Stop Standard
Automation Limit Switches Optional
360° Snap-In Stack Assembly Standard
Rigid Mount Booster Optional
Stand Alone Column Hub Optional
Extended Length Column Optional
4" (101.6) Stroke Air Cylinder Standard
Air Cylinder Bore Diameter 2.5" (63.5)
Clamping Force at 90 PSIG 441 lbs. (1981n)
Input Voltage 220 VAC optional for 1200 watts
120 VAC
Weight 180.5 lbs. / 81.9 kg

dimensional data:

All Dimensions: Inches (mm)
Model 2050 / 1550

20 kHz / 15 kHz ultrasonic plastics welding systems

STANDARD FEATURES INCLUDE:
• Automatic Frequency Tuning
• Multiple Job Storage
• Digital Force Triggering
• Calibration Pulse Prior to Every Weld Cycle
• Back-Lit LCD Display
• Ultrasonics Load Meter Scale
• Upper and Lower Weld Limit Settings
• Optional RS232 Serial Port Printer Output
• Optional PLC I/O (Input/Output) Ports
• Soft Start Overload Protection Circuitry
• Load Regulation Circuitry
• Distance Mode Settings in English or Metric Units*

Leaders in the field of ultrasonic plastics welding equipment and technology since 1969, Sonics & Materials offers its new line of GX-Series ultrasonic power supplies, combined with the super-rigid Model 2050 or 1550 press, to create a powerful new system designed to handle even the most demanding applications.

The new GX-Series provides microprocessor control and consistent reliability for every application, and delivers more output power to the Model 2050 press, easily handling significantly larger part size and force requirements. Power supplies feature smart-logic, user-friendly navigation and are available in three different welding mode configurations for maximum versatility and flexibility.

Power Supply**
Dimensions: 15.25" W x 6.50" H x 18.75" D (387.3 x 165.1 x 476.25 mm)
Weight: 21 lbs. (9.5 kg)

* requires optional linear encoder

**Power supply for 3500 watt system is larger and heavier. Call for more information.
model 2050 features

- Single Piece Rigid Cast Aluminum Machine Base and Column Hub
- Increased Steel Column Diameter and Wall Thickness
- Single Rail Linear Slide
- Direct In-Line Air Cylinder
- Extended Center Base to Column Throat Depth Distance
- Additional 12" Center-to-Center Lower Fixture Mount Holes
- Front Panel Pneumatic Speed and Pressure Controls
- Linear Encoder for Distance Welding (optional)

specifications, additional features, and options

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tr>
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<td>Front Emergency Stop</td>
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<tr>
<td>3.75&quot; (95.3) Column Diameter</td>
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<tr>
<td>4&quot; (101.6) Stroke Air Cylinder</td>
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<td>6&quot; (152.4) Stroke Air Cylinder</td>
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<td>Air Cylinder Bore Diameter</td>
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<td>Clamping Force at 90 PSIG</td>
<td>441 lbs. (1961n)</td>
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<tr>
<td>Input Voltage</td>
<td>220 VAC</td>
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<tr>
<td>Weight</td>
<td>180.5 lbs. / 81.9 kg</td>
</tr>
</tbody>
</table>

dimensional data

All Dimensions: Inches (mm)
Leaders in the field of ultrasonic plastics welding equipment and technology since 1969, Sonics & Materials offers its new line of GX-Series ultrasonic power supplies, combined with the super-rigid Model 2055 and 1555 presses, to create a powerful new system designed to handle even the most demanding applications.

The new GX-Series provides microprocessor control and consistent reliability for every application, and delivers more output power to the Model 2055 and 1555 presses, easily handling significantly larger part size and force requirements. Power supplies feature smart-logic, user-friendly navigation and are available in three different welding mode configurations for maximum versatility and flexibility.

Power Supply**
- Dimensions: 15.25" W x 6.50" H x 18.75" D (387.3 x 165.1 x 476.25 mm)
- Weight: 21 lbs. (9.5 kg)

**Power supply for 3500 watt system is larger and heavier. Call for more information.
model 2055 and 1555 features

- Single Piece Rigid Cast Aluminum Machine Base and Column Hub
- Increased Steel Column Diameter and Wall Thickness
- Single Rail Linear Slide
- Direct In-Line Air Cylinder
- Extended Center Base to Column Throat Depth Distance
- Additional 12" Center-to-Center Lower Fixture Mount Holes

specifications, additional features, and options

- Dual Cycle Start Buttons: Standard
- Non-Contact Cycle Start Buttons: Optional
- Front Emergency Stop: Standard
- Head Adjust Counter: Standard
- Balance Spring: Standard
- Adjustable Positive Stop: Standard
- Automation Limit Switches: Optional
- 360° Snap-In Stack Assembly: Standard
- Rigid Mount Booster: Optional
- Stand Alone Column Hub: Optional
- Extended Length Column: Optional
- 3.75" (95.3) Column Diameter: Standard
- 4" (101.6) Stroke Air Cylinder: Standard
- 6" (152.4) Stroke Air Cylinder: Optional
- Air Cylinder Bore Diameter: 2.5" (63.5)
- Clamping Force at 90 PSIG: 441 lbs. (1961n)

Input Voltage: 220 VAC
Weight: 165 lbs. / 74.8 kg

dimensional data

All Dimensions: Inches (mm)
Leaders in the field of ultrasonic plastics welding equipment and technology since 1969, Sonics & Materials offers its new stepper-motor driven e-Press Touch, combined with a unique touch-control power supply with built-in stepper controller. The new system produces repeatable, precision welds to a weld depth tolerance of +/-0.0003 in. (0.008 mm).

The advanced power supply provides superior microprocessor control and consistent reliability, along with an array of convenient networking and plotting features. Power supplies feature smart-logic, user-friendly navigation with touch controls plus enhanced features such as frequency display and digital amplitude control.

**Power Supply with built-in Stepper Controller**

Dimensions: 10" W x 9.5" H x 24.75" D (254 x 241.31 x 628.65 mm)
e-Press features

- Single Piece Rigid Cast Aluminum Machine Base and Column Hub
- In-line Load Cell for Precise Force Trigger
- Linear Ball Screw Actuator
- Single Rail Linear Slide
- Rigid Mount Booster Technology

specifications, additional features, and options

- Dual Cycle Start Buttons: Standard
- Non-Contact Cycle Start Buttons: Optional
- Front Emergency Stop: Standard
- Head Adjust Counter
- Balance Spring: Standard
- Automation Limit Switches: Optional
- 360° Snap-In Stack Assembly: Standard
- Rigid Mount Booster: Standard
- Stand Alone Column Hub: Optional
- Extended Length Column: Optional
- 3.75" (95.3) Column Diameter: Standard
- 3.5" (89 mm) Max Stroke: Standard
- Weight: 210 lbs. / 95 kg

power requirements

**NOTE: These dimensions apply to 20 kHz model only.**