Sonisolution™ RS Series
Ultrasonic Sealer for Specialty Applications and OEM Integration

Benefits

- Freedom to design the ultrasonic energy source into your system.
- Lightweight and compact design allows for easy integration vertically or horizontally.
- Unlimited cross directional bond width - depends on your process design.
- Rolling contact enables better sealing over varying material thicknesses.
- Maintain precise control of seal integrity during start-stop conditions.
- Faster process speeds with mechanical capability of speeds up to 800 mpm/2600 fpm.
- Energy savings over other sealing methods.
- Maximizes seal strength, consistency and quality.
Maximize capabilities for your customers by offering them an improvement to pressure, thermal and adhesive processing with advantages such as increasing process throughput, reducing material costs and saving energy.

The Sonisolution™ RS Series of rotary ultrasonic sonotrode assemblies is suitable for many different applications including fin and lap sealing, tube forming, bonding, feature attachment, embossing, sheet lamination, cutting and slitting.

<table>
<thead>
<tr>
<th>FREQUENCY</th>
<th>SONOTRODE WIDTH (max bond width)</th>
<th>SONOTRODE DIAMETER</th>
<th>BEARING HOUSING HEIGHT/ WIDTH</th>
<th>CLEARANCE NEEDED ON EACH SIDE OF SYSTEM</th>
<th>BOOSTER GAIN</th>
<th>AVAILABLE POWER</th>
<th>TOP PROCESS SPEED (application specific)</th>
<th>APPROX. MACHINE DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 kHz</td>
<td>3” 75mm</td>
<td>6.7”-6.9”</td>
<td>6.1” 155 mm</td>
<td>0.3”-0.4” 7.6-10.2 mm</td>
<td>1.0, 1.25, 1.5, 2.0</td>
<td>5000W</td>
<td>2600 fpm 800 mpm</td>
<td>9.1” 232mm 24.2” 614mm 8.4” 212mm</td>
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<tr>
<td>30 kHz</td>
<td>2” 50mm</td>
<td>4.5”-4.6”</td>
<td>3.9” 100 mm</td>
<td>0.28”-0.33” 7.2-8.4 mm</td>
<td>1.0, 1.5</td>
<td>750W 1800W</td>
<td>1500-2000 fpm 450-600 mpm</td>
<td>7.2” 184mm 19.8” 502mm 6.9” 175mm</td>
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<tr>
<td>40 kHz</td>
<td>1.33” 34mm</td>
<td>3.4”-3.5”</td>
<td>3.9” 100 mm</td>
<td>n/a</td>
<td>1.25, 1.5, 1.75, 2.0</td>
<td>600W 750W 1200W</td>
<td>750 fpm 225 mpm</td>
<td>5.9” 150mm 16.5” 420mm 6.6” 169mm</td>
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</tbody>
</table>

*Weight and dimensions are approximate and do not include additional components.

One of the key advantages of the rotary sonotrode is the ability to achieve very high amplitudes and operate in contact with other surfaces. Impact force to the radial surface of the rotary horn does not damage the converter.

For more information, speak with your Dukane representative, contact your Dukane regional office or visit dukane.com