



ProSys offers custom sizes of our single-wafer Megasonic stainless-steel transducer for cleaning and sonochemical processing that does not require strong acids or bases. The transducer applies a uniform dose of acoustic energy to a rotating substrate. The MegPie will improve your process efficiency and lower the process time. It is easy to retrofit to your single-substrate processing tool.

Features & Benefits

- The 316 stainless-steel resonator is compatible with solvents
- Patented crystal bond to the resonator
- Patented RF connection to the crystal
- Redundant internal RTP temperature monitoring
- Custom sizes available
- Uniform **direct** acoustic energy applied to the process
- Increased process efficiency
- Reduced process time
- Reduced process chemistry usage
- No moving parts to maintain
- No consumables – works better than brushes

Technical Specifications

- Power density: 0.05 – 2.0 Watts/cm²
- Standard operating frequency: 925 kHz; other frequencies available upon request
- Mounting height: 0.02" – 0.14" (0.5mm – 3.5mm)
- Process fluid temperature: 15°C – 60°C
- Process fluid required depends on the substrate size and RPM: 0.5 – 3.0 lpm
- Operating RPM: 1 – 100
- Nitrogen or CDA purge: 10 lpm
- Mounting with 3 x M6 female threaded bosses
- Use with IMPulse RF electronics

Processes Supported

- Post-CMP cleaning
- TSV processing
- Pre-SOIC bond clean
- SU-8 develop
- Lift off
- Resist strip
- LIGA processes
- Mask cleaning
- Etch assist
- Plating pre-cleaning
- Pre-plating bubble removal
- Post-laser cleaning