

 **QUAKELOGIC**

QuakeLogic QL-SonicMill 800

CNC ULTRASONIC MACHINING CENTER



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Feature	Specification
<ul style="list-style-type: none">Machine Configuration:	<ul style="list-style-type: none">High-Precision CNC Ultrasonic Machining Center
<ul style="list-style-type: none">Application Materials:	<ul style="list-style-type: none">Technical ceramics, quartz, sapphire, optical glass, silicon carbide, carbide composites, and other hard-to-machine brittle materials
<ul style="list-style-type: none">Axis Travel (X/Y/Z):	<ul style="list-style-type: none">800 mm × 800 mm × 350 mm
<ul style="list-style-type: none">Worktable Capacity:	<ul style="list-style-type: none">Suitable for precision machining of medium-format ceramic and crystalline components
<ul style="list-style-type: none">CNC Platform:	<ul style="list-style-type: none">Siemens Industrial CNC Control
<ul style="list-style-type: none">Ultrasonic Technology:	<ul style="list-style-type: none">Integrated high-frequency ultrasonic machining system
<ul style="list-style-type: none">Tool Magazine:	<ul style="list-style-type: none">24-Station Automatic Tool Changer
<ul style="list-style-type: none">Tool Measurement System:	<ul style="list-style-type: none">Automatic tool measurement and offset calibration
<ul style="list-style-type: none">Workpiece Measurement:	<ul style="list-style-type: none">High-precision touch probe system
<ul style="list-style-type: none">Position Feedback System:	<ul style="list-style-type: none">Full closed-loop linear encoder feedback on all linear axes
<ul style="list-style-type: none">Spindle Configuration:	<ul style="list-style-type: none">High-speed precision spindle
<ul style="list-style-type: none">Maximum Spindle Speed:	<ul style="list-style-type: none">24,000 RPM



Feature	Specification
• Coolant Management:	• Closed-loop coolant circulation and fine-particle filtration system
• Tool Holding Method:	• Heat-shrink tooling interface
• Lubrication System:	• Centralized automatic lubrication
• Machine Accuracy:	• High-resolution linear positioning feedback architecture
• Operator Safety:	• Fully enclosed guarding with integrated safety interlock protection
• Power Requirement:	• Industrial 3-phase electrical configuration available based on facility requirements



Advanced Ultrasonic Machining & Brittle Material Processing Solutions

Corporate Headquarters

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Available Monday - Friday, 9 AM -
5 PM PST

Executive Support Line

+1 (916) 899-0391

Direct support for ultrasonic machining systems, brittle material processing, technical ceramics, optical materials, and industrial machining applications.

Strategic Inquiries

sales@quakelogic.net

For CNC ultrasonic machining centers, brittle material processing systems, advanced manufacturing applications, and technical support inquiries.

Our Commitment to Ultrasonic Machining Solutions

Precision Brittle Material Machining

Delivering accurate and stable machining capability for ceramics, quartz, sapphire, optical glass, silicon carbide, and other brittle materials.

Advanced Ultrasonic Machining Capability

Providing ultrasonic machining technology, closed-loop encoder feedback, automatic tool measurement, touch-probe inspection, and high-speed spindle performance.

Dedicated Industrial Support

Ensuring reliable operational support, application guidance, tooling support, coolant system continuity, spare parts availability, and technical service.

Scan to Explore CNC Ultrasonic Machining Solutions



Explore Ultrasonic Machining Capabilities for Advanced Ceramics and Brittle Materials

Discover how the QL-SonicMill 800 delivers precision ultrasonic machining, advanced CNC control, high-speed spindle performance, and reliable processing for ceramic, optical, and industrial applications.

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