

LeelaSonic Ultrasonic Parts Cleaning Machine

Industrial Precision Cleaning for Metal & Engineering Components



Better Cleaning

Reaches blind holes, grooves & threads

Faster Cycle

Reduced manual brushing & rework

Consistent Quality

Repeatable process for QC compliance

Product Overview

LeelaSonic ultrasonic parts cleaning machines effectively remove oil, grease, metal chips, polishing compound, carbon deposits, coolants, and shop-floor contaminants from metal and engineering components. Ultrasonic cavitation reaches complex geometries—including blind holes, threads, grooves, and recesses—that manual cleaning and pressure washing cannot access. Ideal for job shops, maintenance departments, and production facilities requiring consistent, inspection-ready parts.

✓ **Trusted by 500+ manufacturing facilities since 1993** | ✓ **ISO 9001:2015 Certified**

Typical Parts & Applications

- **Bearings & Gears** - Remove cutting oils, metal fines, carbon buildup
- **Machined Components** - CNC parts, fasteners, threaded items, fixtures, jigs
- **Hydraulic & Pneumatic Parts** - Valves, cylinders, fittings, manifolds
- **Automotive Components** - Engine parts, transmission gears, fuel injectors
- **Die & Mold Maintenance** - Pre/post cleaning, polishing compound removal
- **Pre-Treatment Degreasing**-Before plating, powder coating, painting, welding, assembly
- **Medical Device Parts** - Precision components (cleaning only, not sterilization)

How It Works: Ultrasonic Cavitation Process:

- **Step 1:** Parts placed in stainless steel basket, submerged in heated cleaning solution
- **Step 2:** High-frequency sound waves (28-40 kHz) create microscopic cavitation bubbles
- **Step 3:** Bubbles implode, creating intense scrubbing action that dislodges contaminants
- **Step 4:** Heat accelerates chemical action, timer ensures consistent cycle
- **Step 5:** Parts removed, rinsed (if required), and dried for inspection or assembly

Standard Models - Specifications

Model	Capacity (L)	Tank Size (LxWxD mm)	Frequency	Ultrasonic Power (W)	Heater Power (W)
LeelaSonic-50	2.0	228x140x60	33 kHz	50	100
LeelaSonic-60	2.5	228x140x100	33 kHz	60	100
LeelaSonic-100	4.0	300x150x100	33 kHz	100	200
LeelaSonic-150	6.5	300x150x150	33 kHz	150	200
LeelaSonic-250 <input type="checkbox"/>	10	300x228x150	33 kHz	250	500
LeelaSonic-500	20	450x300x150	33 kHz	500	1000
LeelaSonic-600	30	500x300x200	33 kHz	600	1000

Large Industrial Models

Model	Capacity (L)	Tank Size (LxWxD mm)	Frequency	Ultrasonic Power (W)	Heater Power (W)
LeelaSonic-1000	50	500x500x200	28 kHz	1000	1500
LeelaSonic-1500	96	600x400x400	28 kHz	1500	2000
LeelaSonic-1750	120	750x400x400	28 kHz	1750	3000
LeelaSonic-2550	225	900x500x400	28 kHz	2550	5000

Note: Custom tank sizes available for oversized parts. Optional features: filtration system, oil skimmer, multi-basket configuration.

Technical Specifications

Tank Capacity Range: 2L to 2000L (custom sizes up to 10,000L available)

Frequency Options: 33 kHz (precision parts), 33 kHz (general), 28 kHz (heavy-duty industrial)

Tank Material: SS304 stainless steel (seamless construction, die-pressed)

Body Construction: Heavy-duty industrial grade, powder-coated finish

Digital Controls: Timer (0-99 minutes, auto shut-off), temperature (room to 80°C)

Heater Power: 100W to 36kW (model dependent, quick heat-up)

Power Supply: 230V AC 1-Phase (tabletop) / 415V AC 3-Phase (industrial)

Basket & Lid: SS304 perforated basket, stainless steel lid (standard)

Safety Features: Overload protection, low-liquid shutoff, emergency stop

Optional Add-Ons: Filtration system, oil skimmer, multi-basket setup, custom fixtures

Certification: ISO 9001:2015 Quality Management

Warranty: 1 year on electronics, lifetime technical support

Delivery: 7-15 days for standard models, 4-6 weeks for custom

Why Choose LeelaSonic?

- **30+ Years Proven Experience** - Manufacturing ultrasonic equipment since 1993
- **ISO 9001:2015 Certified** - Quality management ensures consistent performance
- **Made in India - Factory Direct** - Better pricing, no middlemen, faster delivery
- **Application Engineering Support** - Help with solution selection, cycle time optimization
- **Custom Configurations** - Tank sizes, baskets, and fixtures tailored to your parts
- **Nationwide Service Network** - Installation, training, and technical support across India

Industries We Serve

<ul style="list-style-type: none">• Automotive Manufacturing• CNC & Precision Machining• Tool & Die Shops• Aerospace Components	<ul style="list-style-type: none">• Medical Device Manufacturing• Hydraulics & Pneumatics• Metal Fabrication• Maintenance Workshops
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Get Your Custom Quote Today

Tell us about your parts cleaning requirements and we'll recommend the perfect solution.

Share these details for fastest response:

- Parts type (bearings / gears / machined components / valves / etc.)
- Largest part dimensions (Length x Width x Height in mm)
- Number of parts per batch
- Contamination type (cutting oil / grease / carbon / metal chips / coolant / polishing compound)
- Desired cycle time (e.g., 10 minutes, 30 minutes)
- Current cleaning method (manual / pressure wash / solvent tank)

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Leela Electronics - LeelaSonic

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ISO 9001:2015 Certified | Established 1993 | Made in India