



Ultrasonic Machines

Advanced Solutions for cleaning Requirements

Wave Ultrasonic provides to its customers environment friendly and energy efficient end-to-end customized solutions for cleaning industrial parts based on their specific requirement.

Technology from the Experts

The team at Wave Ultrasonic have over two decades of experience in the components cleaning industry. Hence, customers are guaranteed optimum solutions to their cleaning requirements. The cleaning system competence network for industrial parts cleaning.

Infrastructure

4500 Sq. Ft of constructed factory area. Well-developed vendor Network for fabrication machining, CNC Shearing & Bending, Laser & Plasma Cutting, CNC Machining, Material Testing.

Equipments required for Assembling Machines Computer aided 2D & 3D Design Softwares Sales & Service Office in Bengaluru Millipore Laboratory

Applications



Industry : Cleaning in the mechanics, electronics and glass industries, automobile parts production and plating or other surface refinement processes. Gentle and intensive cleaning of items made of steel, light and non-ferrous metals, plastics and glass.



Medical Sector : Thorough cleaning of surgical, medical and of micro-instruments without causing damage to the material; or cleaning of rigid endoscopes and flexible endoscopic accessories.



Dental Laboratory : Cleaning of instruments, removal of cement and plaster; cleaning of dental mould spoons, drills and prostheses. Cleaning of dentures, crowns and other prosthetic materials.



Jewellery : Cleaning and brightening up of gold, silver, platinum and fancy jewellery. Cleaning of precious, semiprecious and set stones.



Watch Sector : Cleaning of watch cases, mechanical parts and metal bracelets. Cleaning of clockworks.



Optics : Cleaning of complete glasses and optics. Intensive cleaning of spectacle pads and joints.



Workshop and service : Intensive cleaning with alkaline, acid and neutral clean products in the workshop, for service works, for the final cleaning and for conditioning for coating.



Laboratory : It is particularly suitable for the cleaning of laboratory instruments made of glass, plastic or metal. Wave Ultrasonic units degas HPLC solutions, mix, disperse, emulsify and dissolve specimens.

COMPACT WAVE ULTRASONIC 'FM SERIES' MACHINES



WUS-12-FM



WUS-14-FM



WUS-28-FM

COMPACT WAVE ULTRASONIC 'SMH SERIES' MACHINES



WUS-12-SMH



WUS-28-SMH



WUS-30-SMH

Wave Ultrasonic units are available in 15 different sizes, ranging from 1 Litres, up to 50 litres. They are equipped with Efficient 37kHz / 25kHz Ultrasonic high performance transducers of the latest generation.

SM-Models Technical Details :

Model	WUS-12 SM / FM	WUS-14 SM / FM	WUS-14 SMH	WUS-16 SMH	WUS-18 SMH	WUS-20 SMH	WUS-21 SMH	WUS-24 SMH
Tank usage Capacity (l)	1 Litre	2 Litre	2 Litre	3 Litre	4 Litre	6 Litre	6 Litre	8 Litre
Volume Max. (l)	1.3 Litre	2.5 Litre	2.5 Litre	3.3 Litre	4.5 Litre	6.8 Litre	6.2 Litre	9 Litre
Ultrasonic Frequency (kHz)	37	37	37	37	37	37	37	37
Heating Power (W)	-----	-----	40	40	60	60	80	80
Ultrasonic Power (W)	80 Watt	350 Watt	350 Watt	350 Watt	400 Watt	450 Watt	460 Watt	460 Watt
Total Power Consumption (W)	80 Watt	250 Watt	250 Watt	250 Watt	300 Watt	350 Watt	380 Watt	380 Watt
Tank int. Dimensions L/W/H (mm)	150*140*65	240*140*75	240*140*75	240*140*100	240*140*150	300*235*100	325*300*65	325*300*100
Unit ext. Dimensions L/W/H (mm)	175*165*275	265*165*300	265*165*300	265*165*300	265*165*370	325*260*300	350*325*300	350*325*300
Max. Basket Loading (KG)	1 KG	1.5 KG	1.5 KG	2 KG	3 KG	4 KG	4 KG	4 KG
Basket int. Dimensions L/W/H (mm)	135*125*60	220*125*75	220*125*75	220*125*90	220*125*130	280*215*90	300*280*60	300*280*90
Basket Mesh Size (mm)	5X1	5X1	5X1	5X1	5X1	5X1	5X1	5X1
Weight (KG)	2.5 Kg	3.5 Kg	3.5 Kg	4 Kg	5.5 Kg	7 Kg	7 Kg	7 Kg

WAVE ULTRASONIC 'HDM SERIES' MACHINES



WUS-30-HDM



WUS-35-HDM



WUS-50-HDM

SM-Models Technical Details

Model	WUS-23 SMH	WUS-24 SMH	WUS-26 SMH	WUS-28 SMH	WUS-30 SMH	WUS-35 SMH	WUS-50 SMH
Tank usage Capacity (l)	10 Litre	12 Litre	14 Litre	20 Litre	26 Litre	35 Litre	50 Litre
Volume Max. (l)	10.2 Litre	13.5 Litre	15 Litre	22 Litre	30 Litre	36 Litre	52 Litre
Ultrasonic Frequency (kHz)	37	37	37	37	37	37	37
Heating Power (W)	100	100	150	230	230	750	750
Ultrasonic Power (W)	500 Watt	500 Watt	550 Watt	650 Watt	650 Watt	1500 Watt	2000 Watt
Total Power Consumption (W)	380 Watt	400 Watt	400 Watt	400 Watt	400 Watt	800 Watt	1000 Watt
Tank int. Dimensions L/W/H (mm)	300*235*140	325*300*150	500*300*100	500*300*150	500*300*200	600*400*150	700*400*200
Unit ext. Dimensions L/W/H (mm)	325*260 *370	350*325 *370	480*280 *450	480*280 *450	480*280 *470	750*550 *550	850*550 *550
Max. Basket Loading (KG)	5.5Kg	6 Kg	8 Kg	12 Kg	15 Kg	20 Kg	25Kg
Basket int. Dimensions L/W/H (mm)	300*220*130	300*280*140	480*280 *100	480*280 *140	480*280 *190	580*380*140	680*380*190
Basket Mesh Size (mm)	9X1	9X1	10X1	10X1	10X1	10X1	10X1
Weight (KG)	8 Kg	10 Kg	13 Kg	15 Kg	18 Kg	30 Kg	40 Kg

WAVE ULTRASONIC CUSTOMIZED CLEANING LINE SETUP



WAVE ULTRASONIC 'MED SERIES' SINGLE STAGE MACHINES

These are Single chamber systems with single or Multi-processes. They cater to cleaning requirements of parts that have simple geometries, holes and the productivity is low.



WUS-50-MED-L



WUS-50-MED-S



WUS-100-MED-H



WUS-100-MED-SP



Auto basket clamping inside the work chamber

WAVE ULTRASONIC '2 HED SERIES' TWO STAGE MACHINES

These are Two Stage chamber systems with single or Multi-processes. They cater to cleaning requirements of parts that have simple geometries, holes and the productivity is low.



WUS-50-2 HED



WUS-125-2 HED

WAVE ULTRASONIC '3 / 4 HED SERIES' THREE / FOUR STAGE MACHINES



WUS-3 HED-S



WUS-3 HED



WUS-4 HED

The sum of all possibilities

- Electronic time and heating control
- Temperature controlled / temperature pre-selection
- High-performance transducer systems
- Dry run proof ceramic heating
- Quick degassing with Degas
- Improved cleaning performance with Sweep
- Safety Switch-Off
- Filtration System
- Water Jet Chamber & Dryer Chamber
- Dunking System
- Air Agitation System
- Exhaust Hood System

WAVE ULTRASONIC CUSTOMIZED AUTO PICK & PLACE MACHINES

These are the Multi-Chamber multi-process systems. They cater to cleaning requirements of parts that have complex geometries and holes, higher contamination and productivity required is high. These usually come with material handling system (Transporter) to transfer the baskets / parts from one chamber to other.



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