

TRANS-O-SONIC

Manufacturers of Ultrasonic Equipments

What is Ultrasonic?

The frequencies above the normal human hearing (above 18-20KHz) is called Ultrasonic frequency. The Ultrasonic generator generates Ultrasonic power at ultrasonic frequency (20KH to 40KHz). The Ultrasonic power drives the PZT transducers (Piezo Electric Transducers). The high frequency ultrasonic vibration in the fluid causes cavitation. Microscopic bubbles are formed and they implode intensely causing intense scrubbing action on the surface of the objects to be cleaned.

Where is it used?

Engineering : Cleaning and degreasing of machined parts and assemblies

Electroplating : Removal of buffing compound

Pharma : Degassing, Emulsion, Rubber/ Plastics plugs & caps cleaning, Ampoules, Vials, Glassware

Medical : Hospitals, Dentist, Ophthalmic, Lenses, Surgical Accessories manufacturers

Electronics : Electronic components, Assembled PCBs

Others : Jewellery, Laboratories, Spectacle frames and lenses, Watch parts, Watch cases and straps, Spinnerates, Ball point nozzles, Auto industry

What Trans-O-Sonic offers?

Trans-O-Sonic offers a comprehensive assortment of ultrasonic products for diverse industrial consumption. We are a prominent manufacturer and supplier of the following products:

- Ultrasonic Cleaners
- Ultrasonic Cleaners for Hospitals
- Ultrasonic Disintegrators
- Ultrasonic Vapour Degreasers
- Ultrasonic Immersible Transducers
- Top loaded Industrial Component Washing machine
- Multi Stage Ultrasonic Cleaning Systems
- Material Handling System

ULTRASONIC CLEANERS

TABLE TOP ULTRASONIC CLEANERS



<u>MODEL</u>	<u>SIZE (mm)</u>	<u>CAPACITY (Ltrs)</u>	<u>HEATERS POWER (watts)</u>	<u>ULTRASONIC POWER (watts)</u>
Compact	225x125x60	1.5	100	50
D-100	240x135x150	3.5	250	100
D-150	300X150X150	5	250	150
D-300	300x240x150	9	250	300
D-500	500x300x200	30	400	500

STANDARD ULTRASONIC CLEANERS



<u>MODEL</u>	<u>SIZE (mm)</u>	<u>CAPACITY (Ltrs)</u>	<u>HEATING POWER (watts)</u>	<u>ULTRASONIC POWER (watts)</u>
D-150	250x150x150	5.5	400	150
D-300	300x200x150	9	400	300
D-500	450x300x150	20	1500	500
D-500	375x325x250	30	1500	500
D-750	600x300x300	54	1500	750
D-1000	600x400x400	96	3000	1000
D-1500	750x400x400	122	4500	1500
D-2000	900x500x500	225	4500	2000

ULTRASONIC CLEANERS FOR HOSPITALS

Microprocessor based ultrasonic cleaning system used in hospitals is a two chamber or three chamber cleaning machine consisting of

- Ultrasonic tank,
- Rinsing tank,
- Drying tank.

All the cycles of operation are automatically controlled by a sequential timer as per the programmed preset timings.



ULTRASONIC CLEANERS FOR LABORATORIES FOR CLEANING INFECTIOUS BOTTLES

These ultrasonic cleaners are mostly used in laboratories where samples of infectious blood, urine etc are collected for testing purpose.

These bottles are re-used for which a thorough cleaning process is required.

This multi-stage ultrasonic cleaning system completely minimizes human intervention thereby protecting them from any hazardous and life-threatening diseases.

Spray nozzles are provided at strategic locations so that high jet sprays of water/cleaning media gets sprayed directly inside the bottles.

Effective ultrasonic sonication helps in complete cleaning of the bottles making them fit to be re-used.

A 360 degree rotating mechanism is provided to remove the contaminated media from the bottles.

This is an entire automatic cleaning process which minimizes labour and health hazards due to minimal contact.



ULTRASONIC DISINTEGRATORS

Ultrasonic Disintegrators are specially designed for pharmaceutical industry, chemical labs and various research institutes. They are widely used for:

- Emulsification of immiscible liquids
- Degassing and De-aerating of Liquids
- Formulations
- Particle Dispersion/Disintegration

(In small volumes batches of less than 250 ml)



ULTRASONIC VAPOUR DEGREASERS

We offer top class and efficient **TCE based ultrasonic vapour degreasers** that are developed using quality tested material and innovative technology. The range is available with us in 150 W, 300W, 500W, 750W, 1000W up to 2000 watts with two, three and four chambers. These degreasers are widely appreciated and demanded in following segments:

- Cutlery cleaning, Hardware cleaning
- FMCG
- Industrial component cleaning and many others.



ULTRASONIC IMMERSIBLE TRANSDUCERS

We manufacture immersible transducers to add ultrasonic cavitations to new or existing tanks in various industrial cleaning applications. These immersible transducers are available in various sizes from 250 watts, 500 watts, 750 watts and 1000 watts, 2000 watts All immersible transducers are custom built.

Immersible transducers are either vertical or horizontal mounted depending on application and tank sizes. Various safety measures are provided in tank to protect the immersible transducers.



ULTRASONIC CLEANERS WITH IN-BUILT CHILLER

The ultrasonic cleaners with in-built chiller are extensively used in laboratories and in pharma companies.

These machines have an in-built chiller of varying capacities to maintain the temperature of the bath. Our in-built chiller unit can be set to a desired temperature ranging from 5 – 20 degree C. Ultrasonic cleaners during sonication generates heat which is not suitable for certain applications. The chiller unit helps to regulate the temperature of the bath to the desired level.



TOP LOADING INDUSTRIAL COMPONENT WASHING MACHINE

The top loaded industrial component washing machine is a highly efficient jet spray machine with excellent durability and optimum cleaning power.

Top loaded washing machines are useful for various applications like

- Cleaning of component/machined part
- Removal of anti-rust before working
- Cleaning of component before welding
- Maintenance workshop



MULTI STAGE ULTRASONIC CLEANING SYSTEMS

Multi stage ultrasonic cleaning system consists of a pre-cleaning tank, ultrasonic tank, rinsing tank and drying tank. All the chambers are provided with effective overflow arrangement. It also consists of filtration and recirculation system for continues filtration & recirculation of liquid. Dunking mechanism is also provided to enhance the cleaning activity.



MATERIAL HANDLING SYSTEM

CHAIN AND SPROCKET TYPE

We are into manufacturing of various industrial and automated material handling systems that are ideal for AQUA based and TCE based multi stage ultrasonic cleaning systems. This bulk material handling system is of rugged chain & sprocket type and has separate or common load / unload stations.

TRANSPORTER TYPE

Transporter type material handling system is one of the most demanded type and we take immense pride in introducing ourselves as one of the leading and well known manufacturers of such systems. Such systems are provided when the objects to be cleaned are in huge quantities and heavy. It is designed to lift around 50 to 400kgs of load.



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