



SINCE 2013

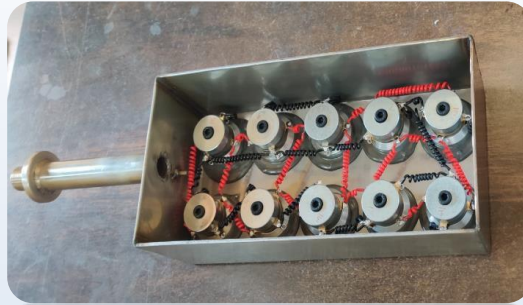


## INDUSTRIAL ULTRASONIC CLEANING SYSTEMS

[www.mteksonic.com](http://www.mteksonic.com)

**ULTRASONIC TRANSDUCER TYPES**

**DIRECTLY TANK  
BONDED**



**IMMERSIBLE TRANSDUCER BOX**



**TUBE RESONATOR  
TECHNOLOGY**

Ultrasonic cleaning transducer are connected in parallel and works through high-frequency sound waves transmitted through liquid to scrub clean the surface of immersed parts. The high-frequency sound waves, typically 20 KHz to 40 kHz, agitate the liquid solution of water or solvent, and cause the cavitation of solution molecules.

**ULTRASONIC GENERATOR**

**MAX1500W  
MOSFET BASE  
MICROCONTROLLER**



**MAX500W  
MOSFET BASE  
INTIGRATED CIRCUITE**



**MAX250W  
MOSFET BASE  
INTIGRATED CIRCUITE**



**MAX300W  
IGBT BASE MICRO-CONTROLLER**

- Frequency Auto Tune
- Over Heat protection
- Over current protection
- Soft start
- Degassing mode
- Sweeping Function

## Fabricated Tank for Industrial Applications



- Tank construction SS304 / SS316 / SS316L material
- Outer frame / cover M.S powder Coated / SS202 / SS304 Material
- LLC ( Liquid Level Controller ) for transducer & heater safety.
- Drain valve
- Standard Basket

- SINGLE STAGE ULTRASONIC CLEANING MACHINE
- MULTISTAGE ULTRASONIC CLEANING SYSTEMS
- SEMI AUTOMATIC CLEANING MACHINE
- FULLY AUTOMATIC CLEANING SYSTEMS
- ULTRASONIC IMMERSIBLE TRANSDUCER BOX
- ULTRASONIC POWER GENERATOR

**MACHINE  
CUSTOMIZED AS  
PER CUSTOMER  
REQUIREMENTS**

## TECHNICAL DETAILS :

<b>FREQUENCY</b>	<b>20 KHZ TO 40 KHZ 3% ±</b>
<b>TANK CONSTRUCTION</b>	<b>S.S 304, 316, OR 316 L MATERIAL</b>
<b>CONTROL</b>	<b>DIGITAL TIMER CUM TEMPERATURE CONTROLLER</b>
<b>ULTRASONIC GENERATOR</b>	<b>IGBT/MOSPET BASE WITH OVER HEAT PROTECTION</b>
<b>VARIABLE POWER</b>	<b>AMPLITUDE ETING 50% TO 100 % ADJUSTABLE</b>
<b>COMPLIANCE STATUS</b>	<b>ISO 9001:2015</b>
<b>COMPLIANCE STATUS</b>	<b>CE : MACHINERY DIRECTIVE (MD) 2006/42/EC</b>

MODEL	MTEK 1001	MTEK 1002	MTEK 1003	MTEK 1004	MTEK 1005
ULTRASONIC POWER	1000 Watt	2000 Watt	3000 Watt	4000 Watt	5000 Watt
LIQUID CAPACITY	100 liter	200 liter	300 liter	400 liter	500 liter
WORKING TANK DIMENSION MM(LxWxH)	600x400x460	800x500x500	900x650x645	1120x650x705	1370x800x705
HEATING POWER	4 KW	6 KW	6 KW	6 KW	8 KW
ELEVATOR MAX. LOAD	40 KG	65 KG	240 KG	340 KG	475 KG

**Tank fabricate as per customer requirements of cleaning object dimension.**

# Industrial Applications



## Automotive

Electroplating, engine parts, surface treatment



## Aviation

Engine components, precision parts, surface treatment



## Engineering Manufacturing

Metal processing, mold maintenance, tool cleaning



## Printing

Printing head / roller cleaning



## Defence

Weapon Cleaning, etc.



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