

**PRECISE, ECONOMICAL, RELIABLE & ECO-FRIENDLY**  
**ULTRASONIC CLEANERS (SW + SERIES)**



**SALIENT FEATURES**

- \*  $\mu$ P based
- \* Preset Auto degassing function
- \* Soft Touch Key Pad
- \* Low Noise Level using 40KHz frequency
- \* Sophisticated design & fabulous outlook
- \* Pulse sweep power for better effective cleaning
- \* In built Basket supporting system in Deep Drawn Tanks
- \* Uniform Cavitations through special Transducers
- \* Transducers bonded with special Adhesives cured at high temp. for longer life

**FIELD OF APPLICATION**

- \* Surgical
- \* Ophthalmology
- \* Dental
- \* Office equipments
- \* Jewellery
- \* Paint Shop
- \* Textile
- \* CD's, DVD's
- \* Electronics
- \* Automobile
- \* Pharmaceutical
- \* Watches
- \* Instrumentation
- \* Machine Tools
- \* Petrochemicals
- \* Glasses & Sunglasses

**EFFECTIVELY REMOVES**

- \* Dust
- \* Wax
- \* Dirt
- \* Grease
- \* Rust
- \* Flux
- \* Oil
- \* Finger Prints
- \* Burrs
- etc. etc.
- \* Metallic chips

**PRINCIPLE OF CLEANING**

The Principle of precision cleaning utilizing Ultrasonic agitation of specific liquid by vibrations created from ultra high frequency is called **Ultrasonic**. Whenever this ultrasonic energy is transferred to a cleaning liquid, rapid formation and collapse of millions of microscopic bubbles throughout the liquid occurs which causes intense scrubbing effect. This phenomenon is called CAVITATION. In a very short time it removes all dirt & foreign bodies from components, which are immersed in the cleaning liquid. The ultrasonic energy is produced by converting electrical energy into mechanical Vibrations by using generator and piezo electric transducers.

**STANDARD COMPACT MODELS WITH LID, BASKET, DIGITAL TIMER & SS HOUSING**

ULTRASONIC CLEANER		DEEP DRAWN TANKS					FABRICATED TANKS				
MODEL		SW2H	SW4H	SW6H	SW10H	SW13H	SW20H	SW26H	SW45H	SW65H	SW105H
Tank size in mm (Approx.)	L	152	300	300	300	300	500	500	500	500	600
	W	137	150	150	238	238	300	300	300	300	400
	H	100	100	150	150	200	150	200	300	450	450
Tank Volume in Ltrs. (Approx.)		2	4	6	10	13	20	26	45	65	105
Ultrasonic Capacity in watt		60	100	150	250	300	400	300/600	600	600	900
Ultrasonic Frequency		40 KHz									
Heater Capacity in watt (Digitally controlled)		100	150	150	250	300	500	750	1000	1000	1500
Drain Valve		x/o	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓ - Timer of 99 min. (0-20 min for 2ltr.)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Mains Supply		220V AC, 50Hz Single Phase					415V, 3Ph, 4 wire				
Overall dimensions in mm (Approx.)	L	275	325	325	350	350	525	525	540	540	640
	W	163	175	175	175	175	325	345	330	330	430
	H	275	300	350	250	350	400	470	360	510	510
Weight (Approx.) in Kg.		4	5	6	9	12	15	19	60	70	100

\* We can supply Fabricated Tanks of any desired size & capacity larger than 26 Ltr. also.

\* Any variety of Tailor Made Ultrasonic Cleaning System with Material Handling are also available.

Sold & Serviced by:

**TOSHNIWAL INSTRUMENTS MANUFACTURING PVT. LTD.,**

P.O. Gagwana - 305023, Distt: Ajmer (Raj.) INDIA

Ph:+91-145-6450601/2, 2787132/3/4/5 Fax:2787131, E-mail: info@toshcon.com, Website: www.toshcon.com



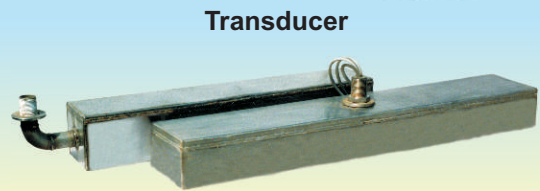
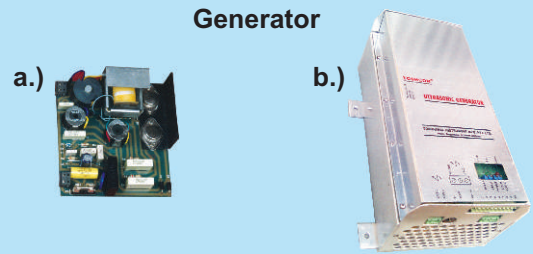
**TAILOR MADE SYSTEMS (Manufactured under German Collaboration)**

**SUBMERSIBLE TRANSDUCER & GENERATOR**

For Higher Ultrasonic Capacity requirement in big tanks, hermetically sealed Transducers are the appropriate solution. These are available in various capacities & in custom built sizes depending upon the tank size & ultrasonic requirement. These are so designed to mount easily inside the bottom of the tank or on the side wall.

**a.) Ultrasonic Generator** modules are available from 50 Watts to 300 Watts. For higher capacities ultrasonic modules are in multiple of 300 Watts and in basic frequencies of 30/40 KHz.

**b.) Ultrasonic Generator** modules (mosfet based) with power sweep & boost functions, 1200 watt 30/ 40 KHz with protection & automatic reset against short circuit, over current, low voltage & over temperature are also available.



**4 stage conveyerised cleaning system**



**5 stage cleaning system**



**ECO-FRIENDLY AQUEOUS BASED MULTISTAGE & DEDICATED CUSTOMISED MATERIAL HANDLING SYSTEMS**

Depending on the variety of cleaning & drying application of Precision parts, various tanks in combination for CLEANING, RINSING & DRYING can be used as a modular system which can satisfy the requirements of cleaning upto few Millipore level. Aqueous based cleaning media ensure the best cleaning results & can easily replace chlorinated fluorinated hydrocarbon solvents. In order to reduce the manual labour & to improve the efficiency of cleaning, dedicated Basket Transportation systems, Rotating device & Up - Down systems are designed and supplied by us. These systems are rugged, compact and reduce worker fatigue, unproductive time and improve the quality of cleaning. The system operates on fully automatic and manual modes.

**SALIENT & CUSTOMISED FEATURES**

- \* Automatic carrying systems
- \* Conveyerised close loop systems
- \* Up down lifting systems
- \* Sophisticated & PLC based systems

**INDUSTRIAL APPLICATION**

**AUTOMOBILE:**

- \* Engine assembly parts
- \* Auto exhaust parts
- \* Various castings
- \* Fuel injection pump parts
- \* Shockers parts
- \* Reflectors
- \* Piston Rods
- \* Piston Rings
- \* Fork pipe
- \* Cintered parts
- \* Springs
- \* Shafts
- \* Nozzles
- \* Bearings
- \* Seals
- \* Clutches
- \* Break shoes
- \* Flanges
- \* Tubes
- \* Nipples

**TEXTILE:**

- \* Filter candles
- \* Spinnerets
- \* Quench filters
- etc.

**PHARMACEUTICALS:**

- \* HPLC
- \* Degassing
- \* Dissolution
- \* Surgical etc.

**INDUSTRIAL APPLICATION:**

- \* Machine tools
- \* Aeronautics
- \* Electronics
- \* Paint
- \* Petrochemical etc.

**ANALYTICAL LABORATORIES:**

- \* Glass wares and in many more applications

Sold & Serviced by:



**TOSHNIWAL INSTRUMENTS MANUFACTURING PVT. LTD.,**

P.O. Gagwana - 305023, Distt: Ajmer (Raj.) INDIA

Ph:+91-145-6450601/2, 2787132/3/4/5 Fax:2787131, E-mail: info@toshcon.com, Website: www.toshcon.com

REGD OFFICE: 401, Manish Chamber, Sonawala Cross Lane, Goregaon (E), MUMBAI - 63

WE RESERVE THE RIGHT TO CHANGE THE DESIGN AND / OR SPECIFICATIONS WITHOUT NOTICE

TIMPL/C	08-14
Rev.	3