Ultrasonic Multi-chamber Cleaning Systems

Highest Cleaning Quality
Through Advanced Industrial Cleaning Techniques

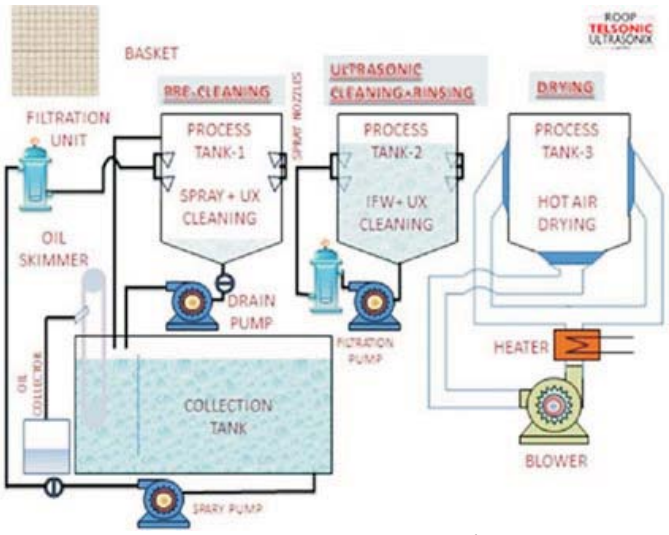
COMPONENT CLEANING - INTEGRAL PART OF MODERN PRODUCTION SEQUENCE

Cleaning is, almost by definition, a part of any manufacturing process for the removal of sufficient surface contamination to make something suitable for the next phase of its use. It may come in at the raw material prep stage, some intermediate manufacturing stage, and prior to surface finishing such as plating or painting or before final packaging. Industrial cleaning system plays a key role during final manufacturing stages for the cleaning of various components .It's demand has been ever increasing as highly cleaned components are needed for various production units in reduced/less time. This is not only to create conditions for trouble free manufacturing but also decides the quality and service life of the end product. The cleaning sequence depend on various aspects like: type of component, material, surface quality, type of contamination and required cleanliness level in terms of Millipore as well as particle size.

Typical Stages Of Multichamber Cleaning Systems

- Pre-cleaning
- Ultrasonic-cleaning
- Rinsing
- Anti-rust coating
- Hot air drying
- Vacuum drying
- Selection of number of stages depends upon the desired cleanliness level
- Available systems :- 3 to 10 chambers

A TYPICAL PROCESS DIAGRAM



Range of Products:

- Customized Single chamber Ultrasonic cleaners of any capacity
- Conveyorized Ultrasonic cleaning systems
- Online Ultrasonic wire / strip cleaning system
- Multi-chamber Ultrasonic cleaning systems
- Single chamber multi operation cleaning systems (coarse /intermediate / fine cleaning)
- Vapour degreasing systems
- Ultrasonic Components :Tube resonators , Eco-generators, Immersible boxes,Transducers etc

Salient Features:

- Advanced proven SWISS TECHNOLOGY for Micro-processor controlled Ultrasonic Generators
- Options available for multiple frequencies: 20 /25 / 30 / 36 / 40 / 80 /120 Khz
- Use of high efficiency Ultrasonic components like patented Tube Resonators / Immersible Transducers box / conventional Transducers.
- Various options available to choose from: High pressure jet cleaning /Inject flood washing / Turbulence / Plain dip / Ultrasonic cleaning /Ultrasonic rinsing / Anti-rust coating / Hot air drying / vacuum drying
- Provided with filtration / recovery units / oil separators
- Automated Material Handling systems Design of baskets / trays / fixtures to get the optimum throughput with required cleanliness level
- Well equipped Lab available for Millipore testing which allows selecting / recommending / designing optimum system for desired cleanliness level.

Applications

- **Automobile Industry**
  Cutting oils /coolant / chips removal from machined metal components like
- Engine block
- Cylinder head
- Fuel Injection parts
- Carburetors
- Valves
- Brake parts
- Piston & piston rings
- Steering unit parts etc

- **Plastic Industry**
  Cleaning of
- Injection moulds.

- **Electronic Industry**
  Cleaning of
- PCBs,
- video heads
- transistor leads
- stencils **etc**

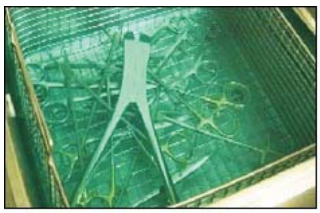
- **Optical Industry**
  Cleaning of
- Lenses
- Glasses
- Glass moulds etc

- **And many other industries..**

- **Textile Industry**
  Cleaning of
- Spinnerets
- Candle Filter
- Ceramic-Nozzles
- Texturing Discs
- Spinning Aprons etc.

- **Gems & Jewellery**
  Cleaning of
- Precious metals
- Jewellery
- Watches etc

- **Medical Industry**
  Cleaning of
- Dental and Surgical instrument
- Endoscope tubes
- Orthopedic implants
- Surgical blades
- Hypodermic needles
- Specimen slides etc



Ultrasonic Components

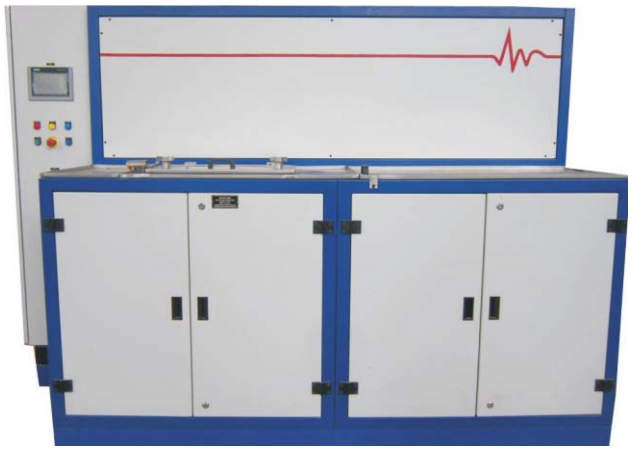
- High efficiency tube resonator (patented) available in various length with both single ended and double ended design, various output capacity such as 150 W, 500 W, 700 W, 1000 W and 1500 W with frequencies 20, 25, 30, 36 and 40 kHz.
- Immersible box transducers with various output capacities (200 W, 400 W, 600 W, 1000 W and above) and frequencies (20, 30, 35, 40 kHz)
- Bonded Transducers (PZT sand-witch type)
- Highly advanced microprocessor controlled modular ultrasonic generators (ECO series) of various capacities available with various attachments for fault indication & optimum monitoring of ultrasonic power

IMMERSIBLE BOX

ECO GENERATOR

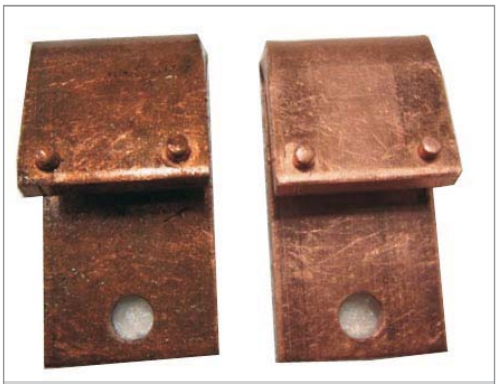
TUBE RESONATOR

Cleaning Systems



Cleaning of Sintered Filter

Cleaning of Mould Parts



Cleaning of Contractor Part

Cleaning of Pump body having complex geometry

We develop and offer complete cleaning solution for any of your cleaning requirements. Our most advanced technologies provide long term cleaning and environmental solution to the industry. Our special application & technology support cell members are always available to guide our customers.

NOTE: Technical specifications are subject to change without prior notice, due to continuous upgradation.

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