



INDUSTRIAL CLEANING SYSTEMS



IMMERSION

ULTRA
SONIC

RINSING

DRYING

Ultrasonic washers with manual basket transportation

Devices for ultrasonic washing with the possibility of further rinsing, passivation, drying with hot air.



Washing device equipment:

- Ultrasonic generators installed in the bottom and/or at the sides of the tub
- Basket movement system (up/down)
- Bath airing system
- Surface rinsing system
- Buffer tank – for deposition of grease and other non-soluble contaminations
- Coalescence oil separator
- Filtration systems
- Auto bath refill system
- "Teleservice" and "Weekend" programs
- Water demineralization system
- Hot air drying with heat recovery
- Control: PLC with a color, touch screen
- Electric equipment, pneumatics and hydraulics of renowned European suppliers

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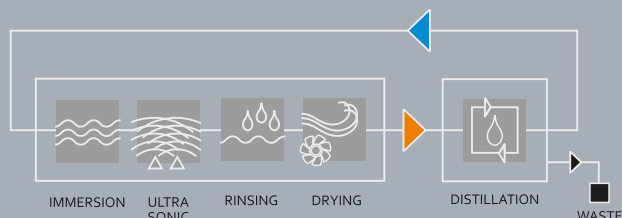
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Ultrasonic washers with automatic basket transportation

Basics of ultrasonic cleaning

Ultrasonic cleaning uses the energy generated by sound waves to create cavitation bubbles. The collapse of these bubbles creates a scrubbing action. This is very effective for removing many contaminants.

An ultrasonic system requires a tank, transducer(s), an ultrasonic generator and a cleaning liquid. Tanks can be sized to fit almost any size part. Transducers can be bonded to the tank bottom or sides.



Several transducers may be used on one tank. The number used will depend on the energy required to remove a contaminant. Each transducer will have a generator to supply power. These generators typically operate in the 20 - 40 kHz range.

The cleaning liquid is typically an aqueous solution. The solution may have various cleaning agents added to improve cleaning efficiency.

Advantages:

- great wash quality even of the most stubborn contaminations
- possibility of combining different wash technologies
- high efficiency and Eco friendliness of the process
- intuitive operation of the machine
- possibility of integration with the closed circuit AQUA-DEST
- bath regeneration system

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