

USW

ULTRASONIC WASHING MACHINES

Industrial size ultrasonic cleaners are designed for use in industrial applications where heavy cleaning demands and performance are commonly required.



Basket washing system.



Hanger washing system.



Fully inox construction.

The cleaning ability of the USW series is 16 times more effective than conventional hand washing, and with the use of ultrasonic cleaning power this gives you effective access to the smallest holes and compartments.

Advantages of the USW series

- Low or high capacity tank volumes on demand.
- Made entirely of stainless steel.
- Adjustment of cleaning time and water temperature.
- Optional ultrasonic power adjustment feature.
- Polishing waste removes general pollution,
- It leaves a clean and corrosion resistant surface.
- 100% washing quality for impurities in the inaccessible area
- It is the definitive solution in production lines with its effective, fast, economical, reliable, environmentally friendly washing quality.
- Production is made in special sizes according to demand.
- Removal of all kinds of impurities is done in molecular dimensions.



Thanks to the robotic transport systems, the products go through the desired process in order.



The ultrasonic washing processes

PRE-WASH

Before proceeding to the cleaning phase of heavily soiled or oily parts, a pre-wash is applied before the delicate cleaning process in order to save time, energy, water, and chemicals and to remove coarse contamination.

ULTRASONIC CLEANING

Ultrasonic cleaning reaches points on the product that are normally very difficult to reach, such as small voids or excessively curved crevices that cannot be physically cleaned. It gives very sensitive and successful cleaning results.

RINSE

After the ultrasonic cleaning process, rinsing is performed to clean the chemical substances remaining on the product. The rinsing process is provided by a closed circulation system or a continuous freshwater supply.

PASSIVATION

The passivation process is applied for products that need to be protected against oxidation. At this stage, the passivation chemical is used and is an additional stage.

DRYING

After cleaning, the products can be dried. The drying process is an additional step and it can be hot air or vacuum drying.

OPTIONALLY;

Ultrasonic Washing systems have many optional by-products. These are products that increase the functionality and make it easier to use. For example; Pneumatic covers, oil scrapers, basket transport systems, pump circulation, and filtration are some of them. In addition, different solutions can be offered upon request or need.

FOR SPECIAL DEMANDS

Contact us for technical details and questions.

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M-US820



New generation digital generators.



M-US125

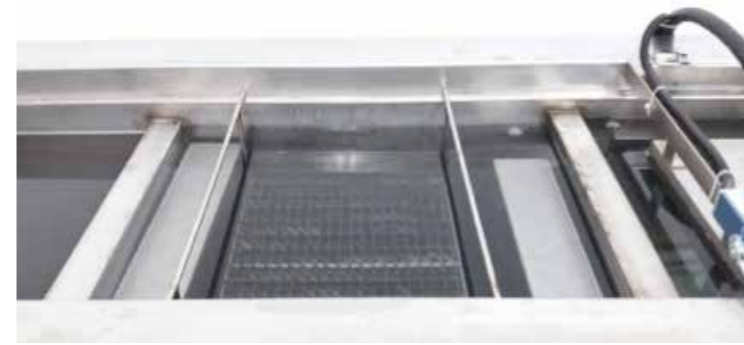


Fully inox construction.



An example image of the array of probes.

Frequency and current values can be monitored instantaneously on the digital display panel of our ultrasonic washing machines with 28 khz or 40 khz frequencies. In addition, full protection is provided in voltage changes with new generation cards.



Multiple ultrasonic washing systems are available for processes such as ultrasonic washing, rinsing, passivation, and drying.



Ultrasonic washing system while working.



Ultrasonic probes.



USW while working.

About the ultrasonic cleaners

Industrial ultrasonic washing machines with basket and hanger system; Ideal solution for industrial parts washing, oil scraping and general cleaning of chipped parts...

COMMON FEATURES

- Polishing residue removes general pollution, - Leaves a clean and corrosion-resistant surface.
- 100% washing quality in inaccessible impurities
- Effective. It is the definitive solution in production lines with fast, economical, reliable, environmentally friendly washing quality,
- Special production is made upon request
- Removal of all kinds of pollution is done in molecular dimensions.

According to the material and pollution of the part to be washed, process studies are carried out by expert engineers in the production department and chemical, temperature, ultrasonic power-frequency parameters are selected.

USAGE AREAS

- Automotive Industry • Metalware Industry
- Defense industry • Food industry
- Electronics Industry • Optical, Plastic Industry
- Textile Industry • Medical Industry
- In all sectors with mass production
- Cleaning for maintenance purposes
- In all production areas before coating and painting.

DESCRIPTION	M-USW 10	M-USW 20	M-USW 60	M-USW 80	M-USW 125	M-USW 185	M-USW 420	M-USW 520	M-USW 620	M-USW 820
Volume / lt	1,5	2,8	6	8	12	18	30	50	60	90
Weight / kg	3	3,4	4,8	7,6	7,9	10	35	43	45	86
Ultrasonic Power / W	80	80	160	240	240	320	480	880	960	2240
Ultrasonic Generator / W	132	132	132	132	132	132	440	660	660	1540
Internal Dimensions / mm W x D x L	150x138x x150	240x138x x100	240x138x x200	300x240x x150	300x240x x200	330x300x x200	350x250x x350	400x300 x420	400x350 x420	530x440 x490
External Dimensions / mm W x D x L	165x150 x315	265x160 x290	270x160 x330	325x265 x300	325x265 x365	350x325 x410	500x440 x880	550x490 x880	545x540 x880	765x725 x870
Basket Dimensions / mm W x D x L	120x110 x45	210x110 x55	210x110 x55	250x190 x80	240x190 x120	290x255 x120	300x210 x285	355x300 x260	370x300 x270	460x370 x370
Frequency / kHz	40	40	40	40	40	40	40	40	40	40
Heating Power / W	250	250	500	750	750	750	2000	2400	2400	3000
Power V / Hz	220/50-60	220/50-60	220/50-60	220/50-60	220/50-60	220/50-60	220/50-60	220/50-60	220/50-60	220/50-60

USW

ULTRASONIC WASHING MACHINES



USW1400



17 tons
water capacity

USW10000

Large-volume USW solutions for private businesses such as shipyards

You can easily clean even the largest products with our large volume USW machines. We offer the most ideal washing solutions for your products with the ultrasonic power level that can be increased according to the capacity.



Watch the video.

Ultrasonic power

All of our USW series ultrasonic washers are manufactured with high quality stainless steel. We have electric or natural gas heating options according to your needs. Control panels are designed according to IEC standards and CE certified switchgear is used.



Corrosion cleaning process



Easily clean even the largest products.



Images from the shipyard use.



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