

ULTRASONIC CLEANING TANK

Type 380-2500

The long-term reliable functioning of the engine system depends frequently on the cleanliness of its components and the efficiency of the cleaning method. Departing from traditional approach, Marotechnic® offers a non-conventional cleaning method based on ultrasonic technology. The engine parts are placed into the sturdily constructed ULTRASONIC CLEANING TANK which can vary in sizes depending on the items to be cleaned. The cleaning is brought about by means of a piezoelectric SUBMERSIBLE TRANSDUCER which converts electrical energy into ultrasonic energy creating cavitation bubbles in the cleaning liquid. The bubbles implode against the surface of items releasing mechanical energy in the cleaning liquid and producing the so-called “push-pull” effect on the surface of the equipment to be cleaned.



Features:

- Operating frequency: 30 kHz
- Voltage: 50/60 Hz
230 or 440 (380) V
- Material: stainless steel ASTM A240/ DIN 1.4571 2mm welded

Benefits:

- More efficient than traditional cleaning methods
- Quick cleaning, e.g. of the following items: cylinder cover, cooler, valves, lube and fuel oil filter, turbocharger impeller, charge air cooler
- Easy to handle and suitable for various on-site applications
- Low-noise performance

The effectiveness of the ULTRASONIC CLEANING TANK together with the SUBMERSIBLE TRANSDUCER and the ULTRASONIC GENERATOR is observed especially with regard to hard-to-reach areas of complexly shaped items. The cavitation bubbles agitate the cleaning liquid and make it penetrate the areas that are not accessible when employing a traditional cleaning method. Thereby, the ultrasonic cleaning enables removal of any traces of contamination, including dirt and deposit, in a safe manner and without the necessity to dismantle the equipment to parts before cleaning.

Standard Tank Sizes (Examples)

Type	Inner Dimensions (L x W x H mm)	Content (l)	Effective HF Power (W)	Heating (W)
U-Sonic 380	500 x 300 x 300	38	400	1800
U-Sonic 500	550 x 350 x 300	50	500	1800
U-Sonic 800	600 x 400 x 400	80	600	3000
U-Sonic 1700	750 x 500 x 500	170	1000	4500
U-Sonic 2000	750 x 500 x 600	200	1000	5400
U-Sonic 2500	1000 x 500 x 600	250	1200	5400
Octa-Sonic	560x 560 x 800	370	2400	5400

Apart from a wide range of existing cleaning tanks, Martechnic® can design and supply tailor-made ultrasonic cleaning units suitable for customer-specific applications.