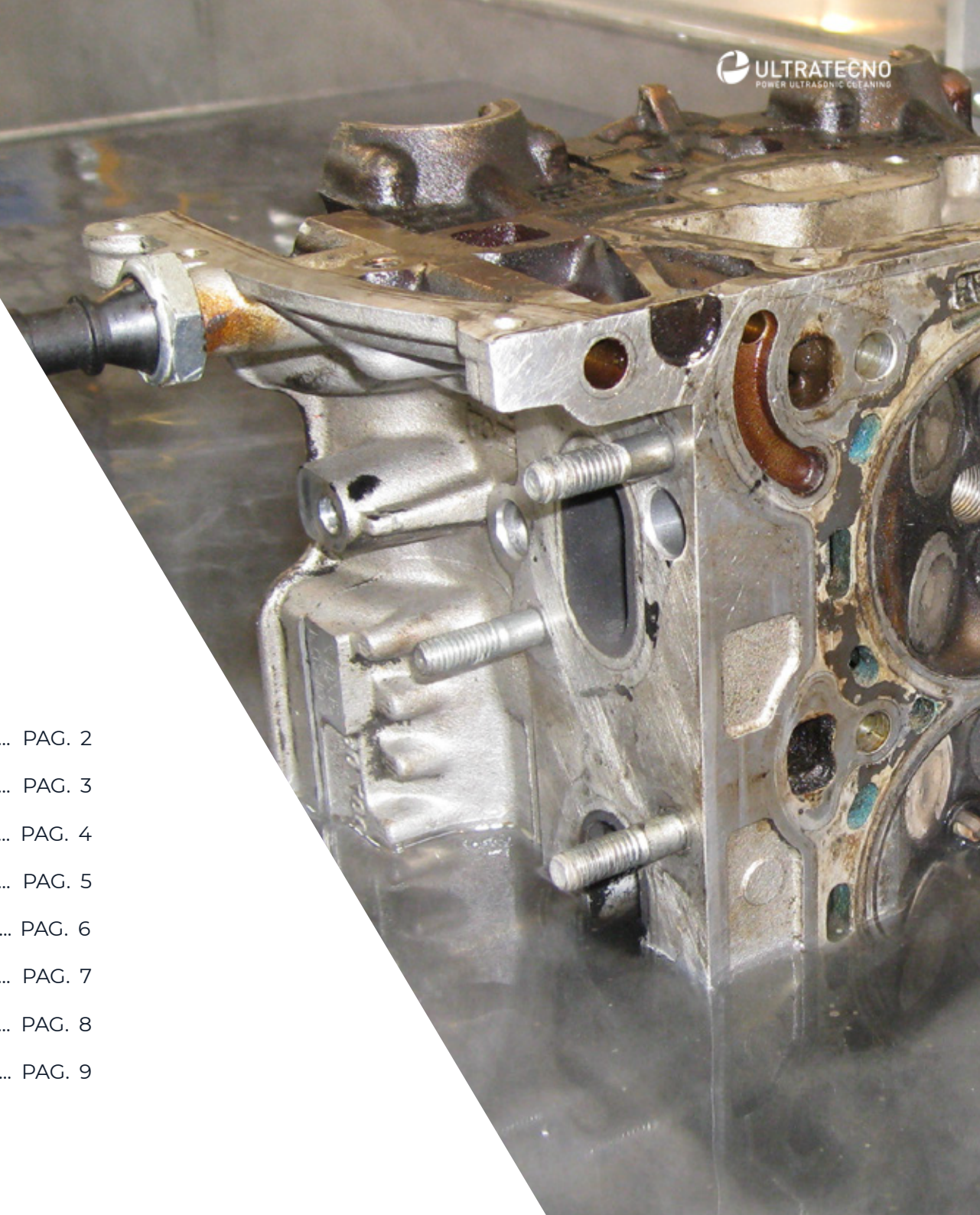




HIGH POWER ULTRASONIC CLEANING EQUIPMENT

THE MOST POWERFUL CLEANING
SOLUTION ON THE MARKET



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HOW ULTRASONIC CLEANING WORKS

COMPLEX CLEANING MADE EASY

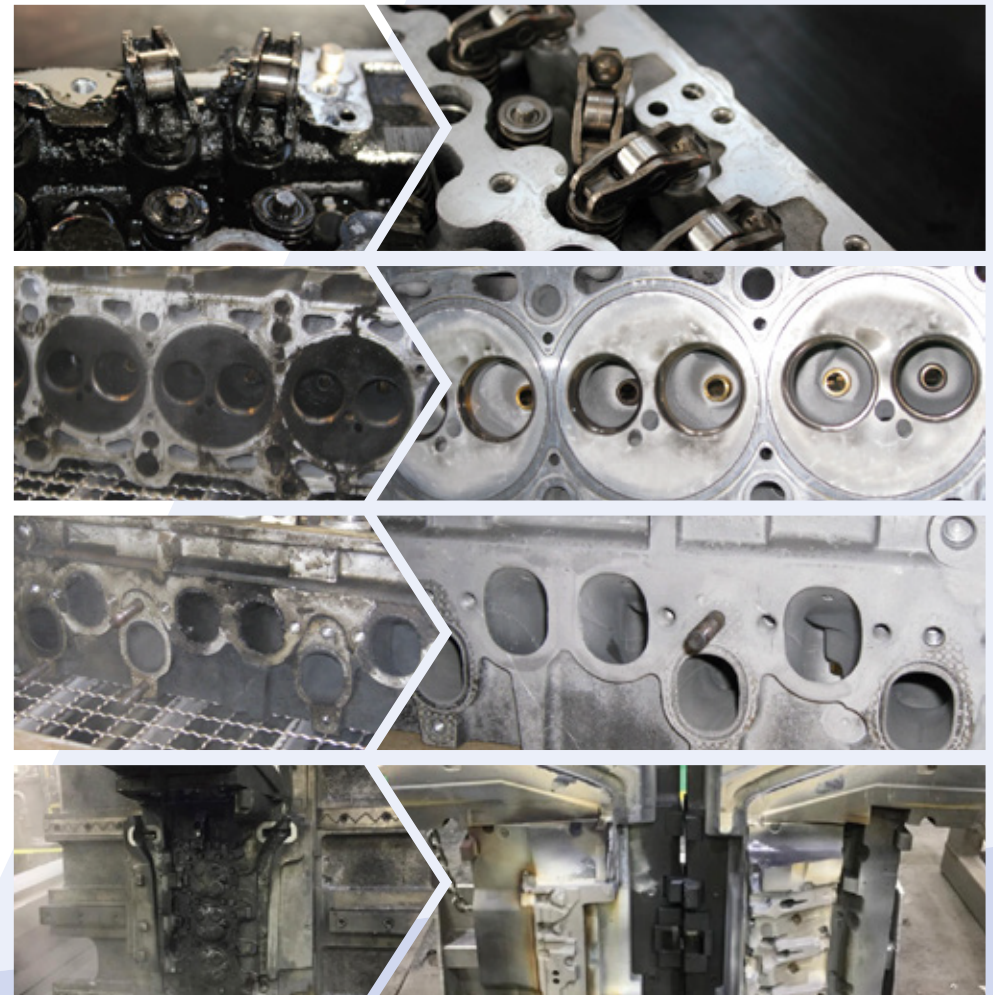
INNOVATION + SCIENCE
= ULTRATECNO
TECHNOLOGY

Ultrasonic cleaning systems are based on high-frequency sonic waves that induce a phenomenon called cavitation.

Millions of tiny air bubbles are generated and compressed until they implode, releasing huge amounts of energy and heat. This energy reaches the most stubborn encrusted dirt and removes it without causing any damage at all to the part or equipment in question.

Thanks to the microscopic air bubbles created by cavitation, no orifice or area is left uncleaned, meaning that ultrasonic cleaning machines are the best alternative for treating highly complex components in any type of material.

- ▶ The process takes between 10 and 45 minutes.
- ▶ No operator intervention required. Substantial savings in workforce.
- ▶ Micro-brushing enables the cleaning of holes and orifices smaller than 10 um.



INDUSTRIAL APPLICATIONS

DESIGN AND MANUFACTURE OF HEAVY-DUTY EQUIPMENT FOR DAILY INDUSTRIAL USE.

IT ISN'T MAGIC, IT'S
ADVANCED
TECHNOLOGY

The standard equipment available on the market uses frequency levels of between 40 and 90 kHz. UltraTecnno ultrasonic machines use 28 kHz low-frequency technology, which is much more powerful, and they offer many different industries more effective, quicker cleaning, with less noise, even in the most complex cleaning processes such as decarbonising or pickling (metal surface treatment) thanks to our patented ARF system.



AUTOMOBILES



MINING



SAWMILLS



MARINE



MOULDS



PRINTING



AERONAUTICS



REFINERIES



MANUFACTURING



ENERGY



MACHINING



FOOD INDUSTRY



RAIL



HEAT EXCHANGERS

ULTRASONIC CLEANING SOLUTIONS

A WORLD LEADER IN MANUFACTURING HIGH POWER EQUIPMENT FOR INDUSTRY

- ▶ **Low frequency (25-28 kHz):** This is needed to produce larger and more powerful cavitation bubbles. Top technical solutions are required for noise reduction, as well as a robust construction to prevent damage to the tank due to the exposure to cavitation.
- ▶ **Oscillation platforms:** The combined action of ultrasound and continuous oscillating extracts the hardest to reach dirt inside the parts.
- ▶ **High-Efficiency Transducers:** The highest quality ceramics and transducers are bonded to the ultrasonic plate to ensure maximum energy transfer.
- ▶ **Synchronised Digital Generators:** To avoid absorption between the emitter plates and provide maximum excitation to each transducer with a frequency sweep.
- ▶ **High temperatures (up to 90°C):** This improves the chemical reaction and ultrasonic cavitation. This can only be achieved safely if the curing process of the transducers is carried out in high-temperature ovens (180°C) with aeronautical technology.
- ▶ **Specific high-performance detergents:** Specifically designed for each cleaning application and type of material.



ACM & ICM SERIES



Our successful ACM Series (with loading and oscillation platform) and ICM Series (no platform) are the result of UltraTecnno's innovation and development efforts for over 50 years. Their mass production allows us to offer the most advanced ultrasonic cleaning equipment in the world, at a very competitive price.

- ▶ New loading and oscillation platform (up to 2 Tm) with low maintenance and useful life.
- ▶ Oil Separation Tank (LFS) for quick and easy oil removal with recirculation pump and automatic oil extractor (FOE).
- ▶ Bolt-on flange type ultrasonic plates for better cavitation performance and easier future replacement. Transducers located on the side walls of the tank to ensure 100% cleaning power every time.
- ▶ Exclusive and Patented ARF Technology: Full cleaning power while keeping the sound level below 78 dB (A).
- ▶ Heating resistors protected by stainless steel casing to ensure long service life.
- ▶ Triple Layer Thermal Insulation (including top lid) to prevent heat loss.
- ▶ Multilingual 7" color touch screen for easy and intuitive operation by the user. The user can set all machine parameters for optimal performance, Automatic System, Programmable Heating and Ultrasonic Timer, Power Consumption Monitoring, Preventive Maintenance Program, Detergent Dosage Calculator.
- ▶ Fully 100% stainless steel construction with 50% extra thickness (3mm), guaranteeing greater durability and reliability of the equipment.

OPTIONAL
EQUIPMENT

REUSABLE
TANK FILLER

AUTOMATIC
WATER FILLER

HYBRID HEATING
STEAM + POWER

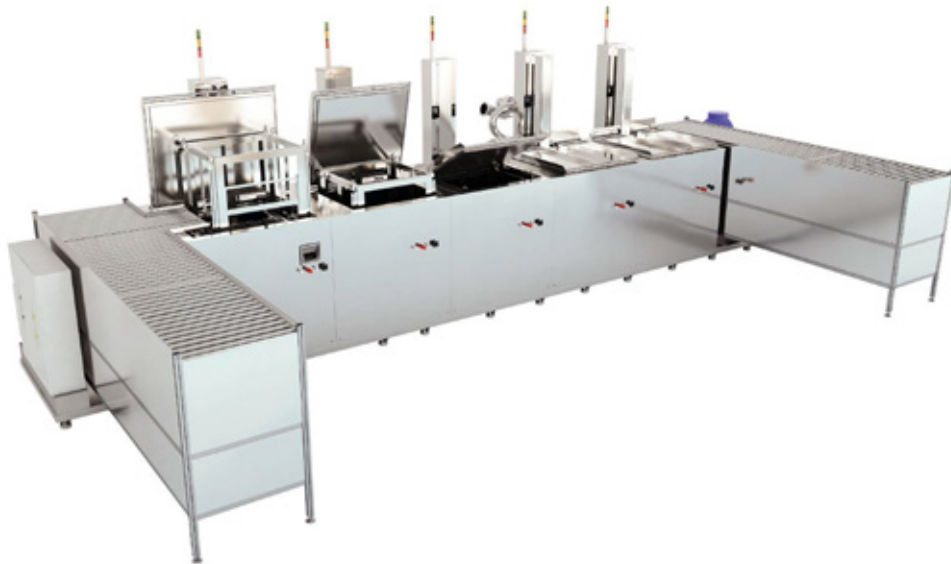
AUTOMATIC
OPENING LID

STEAM
EXTRACTION

ACM-N SERIES PREMIUM

MODEL	MAIN TANK (LT)	ULTRASONIC POWER (KW)	HEATING CAPACITY	MAIN TANK INTERNAL DIMMENSIONS (MM)	AUMATOMATIC LID	LIFTING TRAY DIMMENSIONS (MM)	LIFTING PLATFORM MAXIMUM LOAD	OIL SEPARATION TANK CAPACITY
ACM-350N	403 lt	3 kW	11 kW	1000 x 650 x 620	Optional	950 x 527	250 kg	50 lt
ACM-500N	587 lt	4 kW	11 kW	1200 x 670 x 730	Optional	1090 x 544	350 kg	85 lt
ACM-750N	840 lt	5 kW	11 kW	1400 x 800 x 750	Optional	1280 x 670	500 kg	130 lt
ACM-1000N	1.224 lt	7 kW	15 kW	1600 x 900 x 850	YES	1480 x 760	800 kg	168 lt
ACM-2000N	2.178 lt	9 kW	22kW	1800 x 1100 x 1100	YES	1750 x 900	1000 kg	275 lt
ACM-3000NW	3.025 lt	10 kW	30 kW	1700 x 1590 x 1230	YES	1560 x 1400	1000 kg	340 lt
ACM-3000N	3.276 lt	12 kW	30 kW	2100 x 1300 x 1200	YES	2000 x 1110	1000 kg	360 lt
ACM-4500N	4.846 lt	15 kW	37,5 kW	2400 x 1590 x 1270	YES	2300 x 1400	1800 kg	710 lt
ACM-5500N	6.010 lt	18 kW	45 kW	2700 x 1590 x 1400	YES	2650 x 1400	1800 kg	601 lt
ICM-8000N	9.184 lt	27 kW	60 kW	3200 x 2050 x 1400	YES	N/A	N/A	827 lt
ICM-12000N	13.258 lt	36 kW	75 kW	4600 x 1950 x 1478	YES	N/A	N/A	955 lt

COMPLEMENTARY MODULAR MULTISTAGE SYSTEMS



UltraTecno offers a modular cleaning system tailored to the requirements of each individual industry. As our tanks are so flexible, we can add rinsing, filtering, passivation, corrosion protection, and drying processes to the ultrasonic tanks at a later stage.

Flexible, reliable, and solidly-built systems from a 100-litre capacity per tank up to 15,000 litres per stage. We offer a range of standard sizes, and the option to custom build, all with a wide range of optional devices.

1. ULTRASOUND CLEANING

Our powerful cavitation will remove all the dirt and grime from the parts or equipment. The cleaning is carried out with water and a specific detergent (5-15%) for each application. Heating the cleansing solution up to 90C° increases the overall performance.

2. RINSING

Rinsing is just as important as the actual cleaning. This process will remove detergent residues and any remaining dirt on the parts or equipment. The bubbling process will increase the effectiveness of the rinsing. The water must remain clean, which is why the carbon filter is highly recommended.

3. ADDITIONAL RINSING STEPS

The number of additional cascade rinse steps shall be determined by the level of cleaning required. The use of demineralised water in the final rinse phase will provide the best results.

4. PROTECTION OF THE PARTS AND EQUIPMENT

The passivation agents in the cleaning process will protect the parts against corrosion. A complete range of products is available, depending on the materials to be cleaned, as well as the required duration of protection.

5. DRYING

The hot air cyclone dryer quickly removes the water from the freshly cleaned parts, making them available for the production process. Adequate thermal insulation ensures the lowest power consumption possible.

WHY ULTRATECNO?



01

For the confidence of working alongside a specialist established for over 50 years, with a worldwide distribution network and the trust of more than 3,000 customers.

02

We have the equipment with the highest cleaning power on the market, thanks to our 28HZ synchronized cavitation technology.

03

For our easy-to-use smart display and multiple features.

05

Because of our robust, over-sized design concept, with an entirely stainless steel construction at our factory, for the highest reliability and longest lifespan on the market.

04

Our equipment is the most cost-effective on the market: we are the smartest buy. More than 100,000 euros of savings over the lifetime of a 1000 liter unit.

06

For the quality of our worldwide post-sales service, our 2-year worldwide warranty and the guaranteed availability of spare parts.

07

For our constant process of technological innovation, with unique and patented solutions of our own manufacture (LFS Oil Separation, FOE Automatic Oil Extraction, ARF Noise Elimination ARF).

08

For our cleaning tanks of up to 35,000 liters, unique in the world due to their size.

09



For our minimum power consumption (up to 40% less), thanks to our triple-layer insulation and heat-insulated and sealed cap. We are committed to a sustainable world.

10

Our patented ARF system reduces acoustic emission by 80%. Enjoy the full power of 28 kHz below 78dB.

ULTRATECNO CUSTOMERS AROUND THE WORLD

NUMBER 1 CLEANING EQUIPMENT IN
THE WORLD





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