

AUTOMOTIVE INDUSTRY



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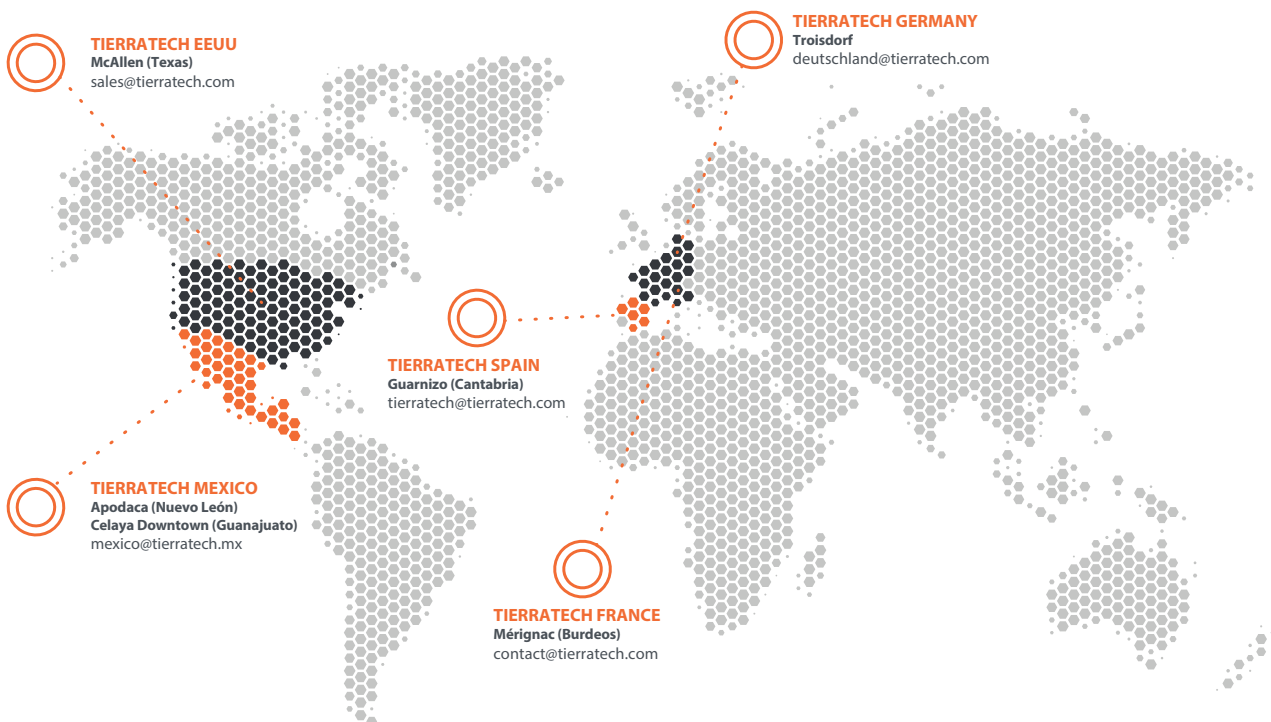
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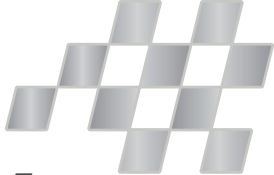
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TIERRATECH® WORLDWIDE

TierraTech® is located directly in the EEUU, Mexico, Spain, France and Germany; Countries where we have design, production and sales facilities.

In addition to our subsidiaries, we have an extensive distribution network in more than 30 countries, providing commercial and technical support to all our customers worldwide.





ULTRASONIC CLEANING EQUIPMENT

AUTOMOTIVE INDUSTRY



WHO WE ARE

TierraTech® is a leading company in the manufacturing and commercialization of ultrasonic cleaning systems and equipment with over 25 years of experience in ultrasonic technology.

Our highly qualified technical and sales team provides personalized service and advice according to the needs of each customer.

HOW WE DO

We provide solutions thanks to the permanent work of our efficient R+D+I team on new technologies and applications around the ultrasonic cleaning, incorporating state-of-the-art components and materials with an agile design for the realization of custom-made projects.

TierraTech® complies with the highest quality standards in all processes, our Quality Management System was certified by TÜV Rheinland according to UNE EN ISO 9001:2008 with register number 0.04.09057



WHAT WE DO

TierraTech® provide standard ultrasonic cleaning equipment and systems or turn-key projects which offer optimal cleanability thanks to the combination of ultrasonics, detergent and water.

Large national and international companies in the naval, aeronautical and automotive industry have already relied on our MotorClean line with customized or standard equipment, manual or fully automated, specially designed to clean their parts and improving their production process.



TRAINING PROGRAM
SUSTAINABLE
SUPPLIERS



MOTOR CLEAN LINE

The efficiency of the TierraTech ultrasonic cleaning systems on automotive pieces is outstanding. Oils, grease and carbon build-ups are removed quickly and easily.

The Motor Clean series is specially designed to clean all types of components related to engines, such as engine blocks, cylinder heads, turbochargers, injectors or particle filters, as well as for cleaning brakes, gearboxes, radiators, transmission systems, etc..

It comprises equipment with capacities ranging from 30 to 8000 litres that are specifically designed for the cleaning of engines, components and accessories. This equipment covers the needs of: automotive workshops, diesel injection laboratories, truck workshops, naval engine repair and cogeneration, aeronautical industry, grinding workshops, engine remanufacturing, turbocharger rebuilding, etc.

This range of equipment uses a working frequency of 40 kHz (Sweep System +2%), which is the most adequate for cleaning in the motor industry because it achieves optimal cleaning without damaging any soft materials such as aluminium, magnesium, brass, etc...

For other, more specific types of cleaning, we use other frequencies such as 40-90 kHz (multifrequency) to clean electronic boards or certain soft materials where the quality requisite of the reconstructor is very high and 28 kHz (Sweep System +2%) in the cleaning of certain large steel pieces in industrial and naval engineering



**HIGH-QUALITY
CLEANING**



**REDUCES LABOUR
TIME, BENEFITING
OTHER TASKS IN
THE PRODUCTION
PROCESS**



**REDUCES
ENERGY COSTS**



**SAVINGS IN WATER
AND CLEANING
PRODUCTS BY
IMMERSION
CLEANING**



**ECO FRIENDLY
TECHNOLOGY**



**TIERRATECH®
GUARANTEE**

APPLICATIONS BY SECTOR

WORKSHOPS

Daily cleaning of all kinds of pieces in general workshops become a complex task if you don't have the adequate cleaning means. Ultrasonic cleaning is ideal for removing different types of dirt (grease, carbon deposits, oils, etc...) in pieces such as cylinder heads, pumps, particle filters, etc, both on the surfaces and parts which are hard to reach, reducing the effort and time employed by traditional systems.



Before and after
Carburetor cleaning



TURBOCHARGER WORKSHOPS

Ultrasonic cleaning is the fastest and most efficient solution for turbocharger workshops because it removes carbon deposits and burns oils, regardless of the complexity of the turbocharger structure. It also allows cleaning a great number of turbochargers in one single process, which improves quality and production times compared to traditional processes.



Before and after
Turbocharger cleaning



DIESEL INJECTION WORKSHOPS

Cleanliness plays an important role in diesel injection laboratories, both in respect of the quality of the final result and productivity.

Ultrasonic cleaning is ideal for these laboratories, because it enables cleaning the pumps in a maximum of 10-15 minutes without having to dismantle them and once dismantled in another 10 minutes we have complete assurance that all the internal conduits are perfectly clean, thus avoiding the typical problem that arises when a repair is carried out without adequate cleaning



Before and after
Injection pump
cleaning



ENGINE REBUILDING & GRINDING WORKSHOPS

In engine rebuilding work, ultrasonic cleaning prevails as an efficient, fast and adaptable system for any place within the production chain.

Ultrasonic cleaning removes all kinds of residue in cylinder heads, valves, pistons, engine blocks, commutators, alternators, etc. caring for the most delicate surfaces and ensuring an optimum finish both for later assembly processes and the final presentation of the engines.



Before and after
Diesel cylinder head
cleaning



Regardless of the type of grinding to be carried out or the piece to be treated, ultrasonic cleaning ensures an optimum finish and precision in the grinding industry. Removes carbon deposits, oils and grease, as well as the usual residue we find in cylinder heads and engine blocks easily.

The use of Motor Clean equipment range reduces the time employed in cleaning, obtaining the highest quality and avoiding the use of acids, brushes and grit blasting, simplifying the cleaning process and removing the bottleneck all grinding workshops have in this part of the process.



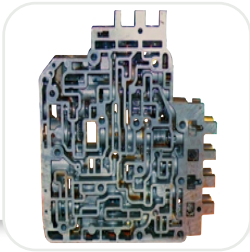
Before and after
Engine block
cleaning



GEARBOX REPAIR SHOPS

In these repair shops, cleaning the pieces from the transmission system is a daily necessity that requires a fast and efficient system.

The Motor Clean range covers this requirement, regardless of the complexity of the piece or amount of pieces to be cleaned, removing grease, oils and metallic shavings for instance, fast and efficiently, without the hard-to-access pieces becoming a challenge.



Before and after
Cleaning of valve box and
gearbox



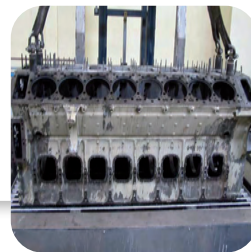
MARINE

The Motor Clean range has large capacity equipment ideal for cleaning large pieces.

The marine sector finds our ultrasonic cleaning equipment the most adequate option for the maintenance and repair of all types of engines because they facilitate the cleaning of pieces such as heat interchangers, cylinder heads, turbochargers, intercoolers, tube bundle, coolers or propellers, and other large and heavy pieces, thus reducing the time and effort involved with the traditional systems.



Before and after
Intercooler and MTU
engine cleaning



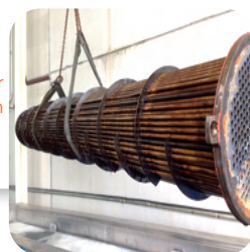
HEAVY MACHINERY

The hard working conditions to which this type of machinery is subjected, makes preventive maintenance a fundamental task to extend its useful life and ensure smooth operation.

The Motor Clean ultrasonic cleaning equipment facilitates the cleaning of radiators, cylinder heads, engine blocks, transmissions, hydraulic systems and working tools, such as shovels or chains, thus helping to ensure correct maintenance that favors the efficient work of heavy machinery and reduces the possibility of unexpected breakdowns.



Before and after
Cleaning of the cylinder
head and tubular beam



"The future of ultrasonic cleaning equipment is already a reality with **Tierratech®**"



MOT-100N ADVANCED 115 liter

- **Useful dimensions:** 620 x 325 x 280 mm.
- **Internal dimensions:** 650 x 390 x 490 mm.
- **Power supply:** 240V / 400V
- **Heating element:** 2250W
- **Ultrasonic power:** 1000Wp (2000Wp-p)
- **1 Ultrasonic generator with 1000Wp (2000Wp-p) output power**
- **1 Submersible emitter** with 1000Wp (2000Wp-p), made of 2.5 mm AISI 316L stainless steel, equipped with 20 PZT (lead zirconate titanate) piezoelectric transducers in an aluminum alloy housing
- **Operating frequency:** 40 kHz with frequency sweep system (±2%)
- **Pneumatic platform:** Built in AISI 304L stainless steel, with a load capacity of up to 60 Kg.
- **Control panel:** 7" touchscreen, preheating time control, weekly calendar, alarms, platform and water level control, and programmable work cycles



MOT-200N ADVANCED 215 liter

- **Useful dimensions:** 730 x 460 x 380 mm.
- **Internal dimensions:** 760 x 520 x 590 mm.
- **Power supply:** 240V / 400V
- **Heating element:** 3750W
- **Ultrasonic power:** 1700Wp (3400Wp-p)
- **1 Ultrasonic generator with 1700Wp (3400Wp-p) output power**
- **1 Submersible emitter**, 1700Wp (3400Wp-p), made of 2.5 mm AISI 316L stainless steel with 34 PZT (lead zirconate titanate) piezoelectric transducers in aluminum alloy housing
- **Operating frequency:** 40 kHz with frequency sweep system (±2%)
- **Pneumatic platform:** Built in AISI 304L stainless steel, with adjustable tilt and a load capacity of up to 200 Kg.
- **Control panel:** 7" touchscreen, preheating time control, weekly calendar, alarms, platform and water level control, and programmable work cycles



MOT-400N ADVANCED 415 liter

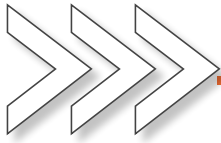
- **Useful dimensions:** 1060 x 520 x 430 mm.
- **Internal dimensions:** 1100 x 615 x 680 mm.
- **Power supply:** 400V.
- **Heating element:** 7500W.
- **Ultrasonic power:** 3400Wp (6800Wp-p).
- **1 Ultrasonic generator with 3400Wp (6800Wp-p) output power.**
- **2 submersible emitters**, each 1700Wp (3400Wp-p), made of 2.5 mm AISI 316L stainless steel, equipped with 34 PZT (lead zirconate titanate) piezoelectric transducers housed in aluminum alloy bodies.
- **Operating frequency:** 40 kHz with frequency sweep system (±2%).
- **Pneumatic platform:** Built from AISI 304L stainless steel, with a load capacity of up to 300 Kg.
- **Control panel:** 7" touchscreen with preheating time control, weekly calendar, alarms, platform and water level management, and programmable work cycles.



MOT-600N ADVANCED 575 liter

- **Useful dimensions:** 1510 x 565 x 430 mm.
- **Internal dimensions:** 1550 x 635 x 680 mm.
- **Power supply:** 400V.
- **Heating element:** 9000W.
- **Ultrasonic power:** 5100Wp (10200Wp-p).
- **2 Ultrasonic generators with a combined output of 5100Wp (10200Wp-p).**
- **3 submersible emitters**, each 1700Wp (3400Wp-p), made of 2.5 mm AISI 316L stainless steel, equipped with 34 PZT (lead zirconate titanate) piezoelectric transducers in aluminum alloy housings.
- **Operating frequency:** 40 kHz with frequency sweep system (±2%).
- **Pneumatic platform:** Made of AISI 304L stainless steel, with a load capacity of up to 350 Kg, includes platform oscillation and automatic lid.
- **Control panel:** 7" capacitive touchscreen with preheating time control, weekly calendar, alarms, platform and water level control, and programmable work cycles.

STANDARD EQUIPMENT



The Motor Clean standard series includes equipment with capacities ranging from 30 to 8000 litres, specially designed to clean, degrease, decarbonise and descale all sorts of pieces, components and accessories.

All the equipment in this series, from 75 litres upward, incorporate an elevating platform to facilitate loading and manipulating pieces.

Optionally, and depending on the application, we have water filtering and treatment systems, to adapt the standard system to the appropriate conditions required by our client.



MOT-30

- **Capacity:** 30 liters
- **Internal dimensions:** 550 x 300 x 250 mm
- **Useful measurements:** 500 x 250 x 175 mm
- **External dimensions:** 740 x 450 x 520 mm
- **Power supply:** 240V
- **Heating element:** 900W
- Ultrasound generator with an output power of 600Wp (1200Wp-p)
- **Ultrasonic power:** 600Wp (1200Wp-p)
- **Working frequency:** 40 KHz. Frequency (Sweep System \pm 2%)
- **12 PZT (lead zirconate titanate) piezo-electric transducers** with aluminium alloy body
- **Tank made of 2 mm thick stainless steel AISI 316L**



MOT-50

- **Capacity:** 50 liters
- **Internal dimensions:** 600 x 300 x 300 mm
- **Useful measurements:** 550 x 250 x 225 mm
- **External dimensions:** 790 x 450 x 570 mm
- **Power supply:** 240V
- **Heating element:** 900W
- Ultrasound generator with an output power of 700Wp (1400Wp-p)
- **Ultrasonic power:** 700Wp (1400Wp-p)
- **Working frequency:** 40 KHz. Frequency (Sweep System \pm 2%)
- **14 PZT (lead zirconate titanate) piezo-electric transducers** with aluminium alloy body
- **Tank made of 2 mm thick stainless steel AISI 316L**



MOT-75

- **Capacity:** 75 liters
- **Internal dimensions:** 700 x 350 x 400 mm
- **Useful measurements:** 650 x 300 x 290 mm
- **External dimensions:** 1075 x 575 x 900 mm
- **Power supply:** 240V
- **Heating element:** 1350W
- Ultrasound generator with an output power of 800Wp (1600Wp-p)
- **Ultrasonic power:** 800Wp (1600Wp-p)
- **Working frequency:** 40 KHz. Frequency (Sweep System \pm 2%)
- **1 submersible emitter with 16 piezoelectric PZT (lead zirconate titanate) transducers**, with an aluminium alloy housing.
- **Tank made of 2 mm thick stainless steel AISI 316L**



MOT-75N

- **Capacity:** 100 liters
- **Internal dimensions:** 650 x 390 x 470 mm
- **Useful measurements:** 620 x 325 x 260 mm
- **External dimensions:** 1260 x 730 x 925mm
- **Power supply:** 240V/ 400V
- **Heating element:** 2250W
- Ultrasound generator with an output power of 1000Wp (2000Wp-p)
- **Ultrasonic power:** 1000Wp (2000Wp-p)
- **Working frequency:** 40 KHz. Frequency (Sweep System \pm 2%)
- **1 submersible emitter with 20 PZT (lead zirconate titanate) piezo-electric transducers** with aluminium alloy body
- **Tank made of 2 mm thick stainless steel AISI 304L**
- **Pneumatic load platform: Up to 30 kg**

MOT-150N



- **Capacity:** 165 liters
- **Internal dimensions:** 700 x 480 x 540 mm
- **Useful measurements:** 670 x 415 x 330 mm
- **External dimensions:** 1355 x 825 x 945 mm
- **Power supply:** 240V/400V
- **Heating element:** 3750W
- Ultrasound generator with an output power of 1700Wp (3400Wp-p)
- **Ultrasonic power:** 1700Wp (3400Wp-p)
- **Working frequency:** 40 KHz. Frequency (Sweep System $\pm 2\%$)
- **1 submersible emitter with 34 PZT (lead zirconate titanate) piezo-electric transducers** with aluminium alloy body
- **Tank made of 2 mm thick stainless steel AISI 304L**
- **Pneumatic load platform: Up to 60 kg**

MOT-300N



- **Capacity:** 320 liters
- **Internal dimensions:** 900 x 615 x 640 mm
- **Useful measurements:** 860 x 520 x 380 mm
- **External dimensions:** 1620 x 1020 x 1045 mm
- **Power supply:** 400V
- **Heating element:** 7500W
- Ultrasound generator with an output power of 3400Wp (6800Wp-p)
- Ultrasonic power: 3400Wp (6800Wp-p)
- **Working frequency:** 40 KHz. Frequency (Sweep System $\pm 2\%$)
- **2 submersible emitters with 30 PZT (lead zirconate titanate) piezo-electric transducers** with aluminium alloy body
- **Tank made of 2 mm thick stainless steel AISI 304L**
- **Pneumatic load platform: Up to 250 kg**

MOT-400N



- **Capacity:** 420 liters
- **Internal dimensions:** 1100 x 615 x 690 mm
- **Useful measurements:** 1060 x 520 x 430 mm
- **External dimensions:** 1820 x 1020 x 1095 mm
- **Power supply:** 400V
- **Heating element:** 7500W
- Ultrasound generator with an output power of 3400Wp (6800Wp-p)
- Ultrasonic power: 3400Wp (6800Wp-p)
- **Working frequency:** 40 KHz. Frequency (Sweep System $\pm 2\%$)
- **2 submersible emitters with 34 PZT (lead zirconate titanate) piezo-electric transducers** with aluminium alloy body
- **Tank made of 2 mm thick stainless steel AISI 304L**
- **Pneumatic load platform: Up to 250 kg**

MOT-600N



- **Capacity:** 600 liters
- **Internal dimensions:** 1300 x 735 x 665 mm
- **Useful measurements:** 1230 x 650 x 430 mm
- **External dimensions:** 2050 x 1200 x 1070 mm
- **Power supply:** 400V
- **Heating element:** 9000W
- Ultrasound generators with an output power of 5100Wp (10200W p-p)
- **Ultrasonic power:** 5100Wp (10200W p-p)
- **Working frequency:** 40 KHz. Frequency (Sweep System $\pm 2\%$)
- **3 submersible emitters with 34 PZT (lead zirconate titanate) piezo-electric transducers** with aluminium alloy body
- **Tank made of 2 mm thick stainless steel AISI 304L**
- **Pneumatic load platform: Up to 350 kg**

MOT-1000N



- **Capacity:** 1000 liters
- **Internal dimensions:** 1500 x 810 x 875 mm
- **Useful measurements:** 1410 x 720 x 580 mm
- **External dimensions:** 2915 x 1395 x 1100 mm
- **Power supply:** 400V
- **Heating element:** 14000W
- Ultrasound generators with an output power of 6800Wp (13600W p-p)
- **Ultrasonic power:** 6800Wp (13600W p-p)
- **Working frequency:** 40 KHz. Frequency (Sweep System $\pm 2\%$)
- **4 submersible emitters 34 PZT (lead zirconate titanate) piezo-electric transducers** with aluminium alloy body
- **Tank made of 2 mm thick stainless steel AISI 304L**
- **Pneumatic load platform: Up to 500 kg**

MOT-2000N



- **Capacity:** 1900 liters
- **Internal dimensions:** 1750 x 1010 x 1080 mm
- **Useful measurements:** 1650 x 910 x 800 mm
- **External dimensions:** 3300 x 1660 x 1350 mm
- **Power supply:** 400V
- **Heating element:** 18000W
- Ultrasound generators with an output power of 10200Wp (20400Wp-p)
- **Ultrasonic power:** 10200Wp (20400Wp-p)
- **Working frequency:** 40 KHz. Frequency (Sweep System $\pm 2\%$)
- **6 submersible emitters with 34 PZT (lead zirconate titanate) piezo-electric transducers** with aluminium alloy body
- **Tank made of 2 mm thick stainless steel AISI 304L**
- **Pneumatic load platform: Up to 750 kg**

MOT-3000N



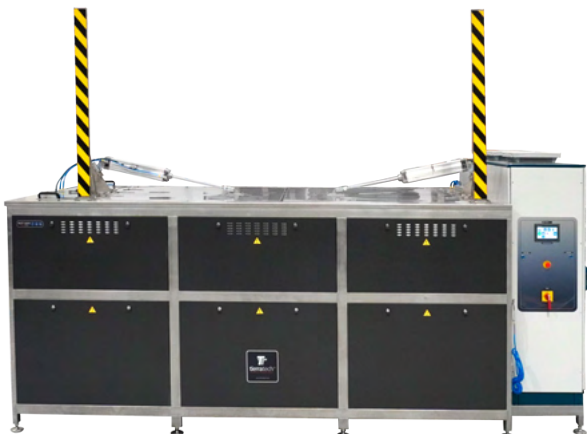
- **Capacity:** 2850 liters
- **Internal dimensions:** 2050 x 1200 x 1205 mm
- **Useful measurements:** 1930 x 1080 x 900 mm
- **External dimensions:** 3740x 1830 x 1470mm
- **Power supply:** 400V
- **Heating element:** 28000W
- Ultrasound generators with an output power of 13600Wp (27200Wp-p)
- **Ultrasonic power:** 13600Wp (27200Wp-p)
- **Working frequency:** 40 KHz. Frequency (Sweep System \pm 2%)
- **8 submersible emitters with 34 PZT (lead zirconate titanate) piezo-electric transducers** with aluminium alloy body
- **Tank made of 2,5 mm thick stainless steel AISI 304L**
- **Pneumatic load platform: Up to 1500 kg**

MOT-4000N



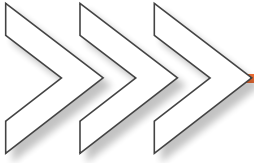
- **Capacity:** 4200 liters
- **Internal dimensions:** 2400 x 1500 x 1260 mm
- **Useful measurements:** 2280 x 1380 x 900 mm
- **External dimensions:** 4165 x 2260 x 1560 mm
- **Power supply:** 400V
- **Heating element:** 28000W
- Ultrasound generators with an output power of 20400Wp (40800Wp-p)
- **Ultrasonic power:** 20400Wp (40800Wp-p)
- **Working frequency:** 40 KHz. Frequency (Sweep System \pm 2%)
- **12 submersible emitters with 34 PZT (lead zirconate titanate) piezo-electric transducers** with aluminium alloy body
- **Tank made of 3 mm thick stainless steel AISI 304L**
- **Pneumatic load platform: Up to 2000 kg**

MOT-8000



- **Capacity:** 8600 liters
- **Internal dimensions:** 3000 x 2000 x 1495 mm
- **Useful measurements:** 2900 x 1900 x 1180 mm
- **External dimensions:** 4820 x 2485 x 1840 mm
- **Power supply:** 400V
- **Heating element:** 60000W
- Ultrasound generators with an output power of 34000Wp (68000Wp-p)
- **Ultrasonic power:** 40000Wp (80000Wp-p)
- **Working frequency:** 40 KHz. Frequency (Sweep System \pm 2%)
- **20 submersible emitters with 34 PZT (lead zirconate titanate) piezo-electric transducers** with aluminium alloy body
- **Tank made of 3 mm thick stainless steel AISI 304L**

SPECIAL EQUIPMENT



The quality and quantity requirements of the parts to be washed are different in each case, so each cleaning system is made according to special washing needs either by the characteristics of the parts or by the requirements of the manufacturing process and taking into account the necessary production output.

The **Motor Clean** range offers customized equipment that solves the cleaning needs of our customers in any of the applications of the motor sector. They can incorporate various processes such as rinsing, drying or different treatments in addition to cleaning. From the very first moment we work hand in hand with our client to always find the specific and most appropriate solution.



STANDARD SINGLE TANK

MOT-150N TOUCH
+ROTARY DRUM

Special monocuba ultrasonic cleaning equipment with a capacity of 150 litres, a pneumatic lifting platform for loading and immersion, built in AISI 304L steel, with a maximum load capacity of 60 kg and a rotating drum.

USEFUL MEASUREMENTS: 490 x 390 x 385 mm

INTERNAL DIMENSIONS: 700 x 430 x 590 mm

CAPACITY: 150 L



ONE-TANK

TT-2X75N

Ultrasonic cleaning equipment with 2 tanks, ultrasonic and hot rinsing. With a capacity of 90 litres, pneumatic loading and unloading platform, built in stainless steel AISI 304L.

The direction of the cleaning work, of the engine parts, will be from left to right.

MEDIDAS ÚTILES: 620 x 325 x 270 mm

INTERNAL DIMENSIONS: 650 x 391 x 470 m

CAPACITY: 90L



ONE-TANK

MOT-3000N SPECIAL

Single tank equipment with a capacity of 3000 litres. It has a special tank, automatic filling and rinsing gun. Pneumatic platform for loading and unloading up to 1500kg. Continuous or timed up and down agitation movement.

USEFUL MEASUREMENTS: 1650 x 910 x 800 mm

INTERNAL DIMENSIONS: 1930 x 1080 x 900 mm

CAPACITY: 3000 L

MANUAL MULTISTAGE
MOT-2000N+AF+AF+H

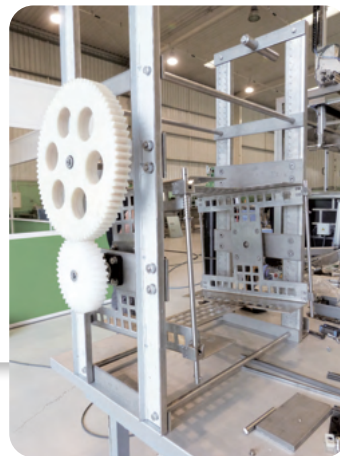


Manual multi-stage equipment with 4 tanks of 2000 litres of capacity. It has an ultrasonic tank, 2 cold rinsing tanks and a passivation tank. The cleaning direction of the engine parts shall be from left to right.

USEFUL MEASUREMENTS: 1650 x 910 x 800 mm
INTERNAL DIMENSIONS: 1770 x 1030 x 1150 mm
CAPACITY: 2000L

SOLUTIONS FOR PROPER CLEANING

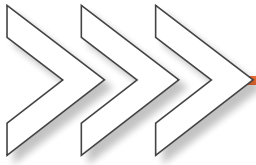
We design customised support structures for parts washing that can be arranged in baskets, special racks and racks with the possibility of tilt, tilt or rotating systems.



SOME OF OUR CUSTOMERS



ULTRASONIC CLEANING PRODUCTS



TierraTech® has a wide range of gentle cleaning products specifically developed for use in its highly effective Ultrasonic Cleaning Systems that protect parts and materials in the cleaning, descaling and pickling process.



ULTRASONIC 5P

Powdered degreaser for cleaning and descaling and removal of encrusted grease, oil and any type of stubborn dirt, preventing it from redepositing on already cleaned parts.

ULTRASONIC 7W

Concentrated degreaser especially suitable for removing encrusted deposits of grease, oil and any kind of dirt on iron, galvanised steel and aluminium.

ULTRASONIC - A

Concentrated degreaser as degreasing additive in combination with alkaline products in degreasing and phosphating baths in ultrasonic machines.

ULTRASONIC - B

Concentrated degreaser developed as an additive agent for alkaline degreasing solutions applied by dipping and spraying.

ULTRASONIC - 23W

High-efficiency detergent for cleaning, dephosphating, and degreasing ferrous materials and other substrates stable at high alkalinity levels in ultrasonic equipment.

ANTIOXIDANT

Corrosion inhibitor suitable for use in grinding, sharpening and machining of all types and in cases where a passivation bath and protection of metals, especially ferrous materials, is required.



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ULTRASONIC CLEANING SYSTEMS

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