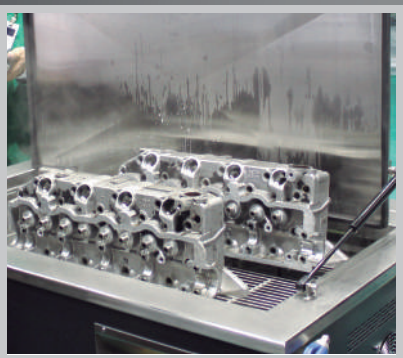
tierratech®

ULTRASONIC CLEANING SYSTEMS

Ultrasonic Cleaning Equipment for the **AUTOMOTIVE INDUSTRY**

USA

MotorClean
BY TIERRATECH

www.tierratech.com

We offer solutions

TierraTech® is a leading international company involved in the manufacturing and distribution of Ultrasonic Cleaning Equipment and Systems.

The Motor Clean series offers equipment and ultrasonic cleaning systems designed specially for professionals of the motoring world.
At TierraTech®, we know and understand the cleaning needs of the industry, so we have developed the most efficient cleaning system, ensuring an optimum quality in the cleaning processes of our clients.

Equipment from the Motor Clean series offer indisputable advantages over traditional cleaning systems.
They are the best choice for degreasing, decarbonising and descaling engine pieces and components since they achieve the best results for being able to access the most hard-to-reach pieces regardless of their complexity and with no effort.

Our technical sales team is highly qualified thus enabling us to offer a personalised service and advice, and an ability to meet the needs of each client. With standard equipment available for immediate despatch, you will have the most advanced and efficient ultrasonic cleaning technology at your facilities.

Our wide range (21 standard equipments) allows us to recommend the equipment that suits best your needs.
For special needs we design a tailor-made equipment according to your requirements.

At TierraTech®, we comply with the highest quality standards in all our processes, certified by TÜv Rheinland with registration No. 0.04.09057, according to the ISO 9001:2008 Quality Standard.

Sistema de Gestión ISO 9001:2015

February 2019

TierraTech® worldwide

TierraTech® is located directly in the USA, Mexico, Spain and France; 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.

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Motor Clean in the automotive industry

MotorClean BY TIERRATECH

- High-quality cleaning, regardless of whether the pieces have internal recesses or parts that are hard to reach.
- Reduces energy costs.
- Reduces labour time, benefiting other tasks in the production process.
- Technology is cleaner and more environmentally friendly, thanks to waste separation in the unit (oils, sludge, water).
- Savings in water and cleaning products by immersion cleaning.

The Motor Clean series includes equipment with capacities ranging from 8 to 2100 gallons specially designed to clean engines, components and accessories.
This equipment covers the following needs: vehicle workshops, diesel injection workshops, truck workshops, ship engine repairs and cogeneration, aeronautics, grinding workshops, engine rebuilding workshops, turbocharger workshops, etc.

Applications

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

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 40-09 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.

Applications

General workshop

Daily cleaning of all kinds of pieces in general workshops becomes a complex task if you do not 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.


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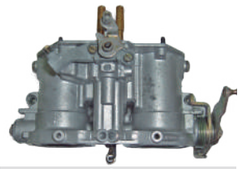
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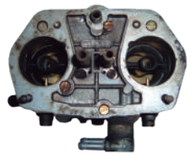
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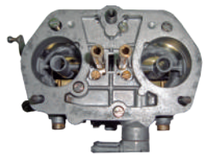
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Diesel injection workshops

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


after


before


after

Grinding workshops

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 ultrasonic cleaning considerably 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


after


before


after

Turbocharger workshops

Ultrasonic cleaning is the fastest and most efficient solution for turbocharger workshops because it removes carbon deposits and burnt 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


after


before


after

Engine rebuilding work

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

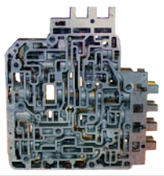

after


before


after

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 series 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.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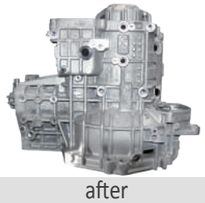
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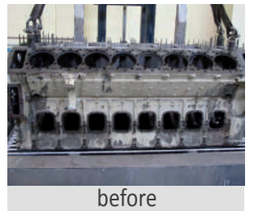
Marine

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

The naval 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


after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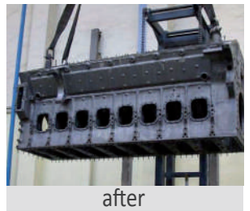
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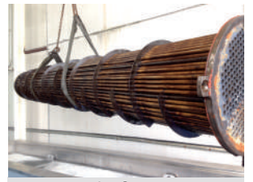
Heavy machinery

The harsh working conditions to which this type of machinery is subjected to makes preventive maintenance a fundamental task to lengthen their useful life and ensure smooth operation.

The Motor Clean ultrasonic cleaning equipment facilitates cleaning radiators, cylinder heads, engine blocks, transmissions, hydraulic systems and working tools, such as shovels or chains, thus contributing towards a proper maintenance that favours efficient work of heavy machinery and decreases the possibility of unexpected breakdowns.


before


after


before


after

Aeronautics

The precision of ultrasonic cleaning helps both the manufacturers of the components, as well as MRO centres to satisfy the high-quality requirements and the strict safety standards of the industry. In an industry where safety is essential, the Motor Clean series are indispensable for the cleaning of hydraulic systems, heat interchangers, engine pieces, injection pumps, vanes, etc. since it does not damage the materials or modify the dimensions or geometry of the surfaces. The frequencies used for aeronautical applications are 40 kHz (sweep system ±2%) and 40-90 kHz, multi-frequency.


before


after


before


after

73 dB. Max.

Water savings

Fastest cleaning

28 kHz (sweep system)
40 kHz (sweep system)
40-90 kHz Multi-frequencie

Our frequencies

tierratech® ULTRASONIC CLEANING SYSTEMS

MotorClean BY TIERRATECH

The Motor Clean standard series includes equipment with capacities ranging from 8 to 2100 gallons, 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.

Large stocks available
INMEDIATE DELIVERY

MOT-30 - 6,6 Galons

Capacity: 6,6 gallons
Internal dimensions: 22” x 12” x 10” in
Useful basket measures: 20” x 10” x 7” in
External dimensions: 29” x 16” x 19” in
Power supply: 240V
Heat resistance: 2x350W
1 ultrasonic generator with a power output of 600W (1200W p-p)
Ultrasonic power: 600W (1200W p-p)
Working frequency: 40kHz with system of frequency sweep (sweep system ±2%)
12 piezoelectric transducers in IBL, high performance titanium steel
Tank built in stainless steel AISI 316 steel of 0,08” in
Weight: 75 Lb

General workshop
Diesel injection workshops
Turbocharger workshops
Aeronautics

MOT-50 - 11 Gallons

Capacity: 11 gallons
Internal dimensions: 24” x 12” x 12” in
Useful basket measures: 22” x 10” x 9” in
External dimensions: 32” x 16” x 21” in
Power supply: 240V
Heat resistance: 2x450W
1 ultrasonic generator with an output power of 700W (1400W p-p)
Ultrasonic power: 700W (1400W p-p)
Working frequency: 40kHz with system of frequency sweep (sweep system ±2%)
14 piezoelectric transducers in IBL, high performance titanium steel
Tank built in stainless steel AISI 316 steel of 0,08” in
Weight: 88 Lb

General workshop
Diesel injection workshops
Turbocharger workshops
Aeronautics

MOT-75 - 16 Gallons

Capacity: 16 gallons
Internal dimensions: 28” x 14” x 16” in
Useful basket measures: 26” x 12” x 11” in
External dimensions: 38” x 22” x 35” in
Power supply: 240V
Heat resistance: 3x450W
1 ultrasonic generator with a power output of 800W (1600W p-p)
Ultrasonic power: 800W (1600W p-p).
Working frequency: 40kHz with system of frequency sweep (sweep system ±2%)
16 piezoelectric transducers in IBL, high performance titanium steel
Tank built in stainless steel AISI 316 steel of 0,08” in
Weight: 156 Lb

General workshop
Diesel injection workshops
Turbocharger workshops
Aeronautics

MOT-75N - 16 Gallons

Capacity: 16 gallons
Internal dimensions: 26” x 15” x 19” in
Useful measures: 24” x 13” x 10” in
External dimensions: 46” x 29” x 35” in
Power supply: 240V
Heat resistance: 2250W
1 ultrasonic generator with a power output of 800W (1600W p-p)
1 submersible transmitter with a power of 800W (1600W p-p) built in AISI 304 stainless steel of 0,1” in . The transmitter contains 16 piezoelectric transducers in IBL, high performance titanium steel.
Ultrasonic power: 800W (1600W p-p)
Working frequency: 40kHz system of frequency sweep (sweep system ±2%)
Tank built in AISI 304 stainless steel of 0,08” in
Pneumatic lifting reinforced load on dive platform.
Maximum load capacity: 66 Lb
Auxiliary tank integrated for the separation of lubricants and oils
Optional: filter for sludge and waste system
Weight: 286 Lb

General workshop
Diesel injection workshops
Turbocharger workshops
Aeronautics

MOT-150N - 33 Gallons

Capacity: 33 gallons
Internal dimensions: 28” x 19” x 21” in
Useful measures: 26” x 16” x 13” in
External dimensions: 50” x 32” x 16” in
Power supply: 240V / 400V
Heat resistance: 3750W
Ultrasonic power: 1700W (3400 p-p)
1 ultrasonic generator with an output power of 1700W (3400 p-p)
1 submersible transmitter with a power of 1700W (3400 p-p) built in AISI 304 stainless steel of 0,1” in. The transmitter contains 34 piezoelectric transducers in IBL, high performance titanium steel.
Working frequency: 40kHz with system of frequency sweep (sweep system ±2%)
Tank built in AISI 304 stainless steel of 0,08” in
Pneumatic lifting reinforced load on dive platform
Maximum load capacity: 132 Lb
Auxiliary tank for the separation of lubricants and oils
Optional: filter for sludge and waste system
Weight: 385 Lb

General workshop
Diesel injection workshops
Grinding workshops
Turbocharger workshops
Engine rebuilding work
Gearbox repair shops
Marine
Heavy machinery
Aeronautics

MOT-300N - 66 Gallons

Capacity: 66 gallons
Internal dimensions: 35” x 24” x 25” in
Useful measures: 34” x 20” x 15” in
External dimensions: 60” x 40” x 41” in
Power supply: 400V
Heat resistance: 7000W
Ultrasonic power: 3400W (6800W p-p)
1 ultrasonic generator with a power 3400W output (6800W p-p).
2 submersible transmitter with a power of 1500W each / 3400W (6800Wp-p) built in AISI 304 stainless steel of 0,1” in. The transmitter contains 34 piezoelectric transducers in IBL, high performance titanium steel.
Working frequency: 40kHz with system of frequency sweep (sweep system ±2%)
Tank built in AISI 304 stainless steel of 0,08” in
Pneumatic lifting reinforced load on dive platform.
Maximum load capacity: 551 Lb
Auxiliary tank for the separation of lubricants and oils
Optional: filter for sludge and waste system
Weight: 606 Lb

General workshop
Diesel injection workshops
Grinding workshops
Turbocharger workshops
Engine rebuilding work
Gearbox repair shops
Marine
Heavy machinery
Aeronautics

MOT-400N - 88 Gallons

Capacity: 88 gallons
Internal dimensions: 43” x 24” x 27” in
Useful measures: 42” x 20” x 17” in
External dimensions: 68” x 40” x 43” in
Power supply: 400V
Heat resistance: 7000W
Ultrasonic power: 3400 (6800W p-p)
1 ultrasonic generator with a power output of 3400 (6800W p-p)
2 submersible transmitters with a power 1700W each / 3400W (6800W p-p). Each transmitter contains 34 piezoelectric transducers in IBL, high performance titanium steel.
Working frequency: 40kHz with system of frequency sweep (sweep system ±2%)
Tank built in AISI 304 stainless steel of 0,08” in
Pneumatic lifting reinforced load on dive platform
Maximum load capacity: 551 Lb
Auxiliary tank for the separation of lubricants and oils
Optional: filter for sludge and waste system
Weight: 705 Lb

- General workshop
- Grinding workshops
- Turbocharger workshops
- Engine rebuilding work
- Gearbox repair shops
- Marine
- Heavy machinery
- Aeronautics

MOT-600N - 132 Gallons

Capacity: 132 gallons
Internal dimensions: 51” x 29” x 26” in
Useful measures: 48” x 26” x 17” in
External dimensions: 77” x 47” x 42” in
Power supply: 400V
Heat resistance: 9000W
Ultrasonic power: 5100W (10200W p-p)
2 ultrasonic generators with a power output of 5100W (10200W p-p)
3 submersible transmitter with a power of 1700W each / 5100W (10200W p-p). Each transmitter contains 34 piezoelectric transducers in IBL, high performance titanium steel
Working frequency: 40kHz with system of frequency sweep (sweep system ±2%)
Tank built in AISI 304 stainless steel 0,08” in
Pneumatic lifting reinforced for loading, batting and unloading platform
Maximum load capacity: 771 Lb
Auxiliary tank for the separation of lubricants and oils
Optional: filter for sludge and waste system
Weight: 771 Lb

- Grinding workshops
- Turbocharger workshops
- Engine rebuilding work
- Gearbox repair shops
- Marine
- Heavy machinery
- Aeronautics

MOT-1000N - 220 Gallons

Capacity: 220 gallons
Internal dimensions: 59” x 35” x 34” in
Useful measures: 56” x 28” x 22” in
External dimensions: 109” x 53” x 43” in (incl. auxiliary tank and distribution board).
Power supply: 400V
Heat resistance: 2x7000W
Ultrasonic power: 6800W (13600W p-p)
2 generators of ultrasound with a power output of 6800W (13600W p-p)
4 submersible transmitter with a power of 1700W each / 6800W. (13600W p-p). Each transmitter contains 34 piezoelectric transducers in IBL, high performance titanium steel.
Working frequency: 40kHz with system of frequency sweep (sweep system ±2%)
Tank built in AISI 304 stainless steel 0,08” in
Pneumatic lifting reinforced for loading, batting and unloading platform.
Maximum load capacity: 1653 Lb
Auxiliary tank for the separation of lubricants and oils
Optional: filter for sludge and waste system
Weight: 1212 Lb

- Grinding workshops
- Turbocharger workshops
- Engine rebuilding work
- Gearbox repair shops
- Marine
- Heavy machinery

Standard Model

MOT-2000N - 440 Gallons

Capacity: 440 gallons
Internal dimensions: 69” x 43” x 43” in
Useful measures: 65” x 36” x 31” in
External dimensions: 123” x 63” x 53” in (incl. auxiliary tank and distribution board).
Power supply: 400V
Heat resistance: 2x9000W
Ultrasonic power: 10200W (20400W p-p)
3 generators of ultrasound with a power output of 10200W (20400W p-p)
6 submersible transmitter with a power of 1700W each / 10200W (20400Wp-p). Each transmitter contains 34 piezoelectric transducers in IBL, high performance titanium steel
Working frequency: 40kHz with system of frequency sweep (sweep system ±2%)
Tank in AISI 304 stainless steel 0,08” in
Pneumatic lifting reinforced for loading, batting and unloading platform
Maximum load capacity: 2204Lb
Auxiliary tank for the separation of lubricants and oils
Optional: filter for waste and sludge system
Weight: 2755 Lb

- Grinding workshops
- Engine rebuilding work
- Gearbox repair shops
- Marine
- Heavy machinery

MOT-3000N - 660 Gallons

Capacity: 660 gallons
Internal dimensions: 81” x 47” x 47” in
Useful measures: 76” x 39” x 35” in
External dimensions: 142” x 70” x 58” in (incl. auxiliary tank and distribution board)
Power supply: 400V
Heat resistance: 2x12000W
Ultrasonic power: 13600W (27200W p-p)
4 generators of ultrasound with a power output of 13600W (27200W p-p)
8 submersible transmitter with a power of 1700W each / 13600W (27200W p-p). Each transmitter contains 34 piezoelectric transducers in IBL, high performance titanium steel
Working frequency: 40kHz with system of frequency sweep (sweep system ±2%)
Tank built in AISI 304 stainless steel 0,1” in
Pneumatic lifting reinforced for loading, batting and unloading platform
Maximum load capacity: 3306 Lb
Auxiliary tank for the separation of lubricants and oils
Optional: filter for waste and sludge system
Weight: 4078 Lb

- Grinding workshops
- Engine rebuilding work
- Gearbox repair shops
- Marine
- Heavy machinery

MOT-4000N - 880 Gallons

Capacity: 880 gallons
Internal dimensions: 94” x 59” x 50” in
Useful measures: 89” x 54” x 35” in
External dimensions: 161” x 89” x 61” in (incl. auxiliary tank and distribution board)
Power supply: 400V
Heat resistance: 2x15000W
Ultrasonic power: 20400W (40800W p-p)
6 generators of ultrasound with a power output of 20400W (40800W p-p)
12 submersible transmitter with a power of 1700W each / 20400W (40800W p-p). Each transmitter contains 34 piezoelectric transducers in IBL, high performance titanium steel.
Working frequency: 40kHz with system of frequency sweep (sweep system ±2%)
Tank built in AISI 304 stainless steel 0,11” in
Pneumatic lifting reinforced for loading, batting and unloading platform.
Maximum load capacity: 4409 Lb
Auxiliary Tank for the separation of lubricants and oils
Optional: filter for waste and mud system
Weight: 6172 Lb

- Engine rebuilding work
- Marine
- Heavy machinery

MOT-8000 - 1760 Gallons

Capacity: 1760 gallons
Internal dimensions: 118” x 79” x 59” in
Useful measures: 114” x 75” x 46” in
Overall dimensions: 156” x 101” x 71” in
Power supply: 400V
Heat resistance: 4x15000W
Ultrasonic power: 34000W (68000W p-p)
10 generators of ultrasound with a power output of 34000W (68000W p-p)
20 submersible transmitter with a power of 1700W each / 34000W (68000W p-p) each transmitter contains 34 piezoelectric transducers in IBL, high performance titanium steel
Working frequency: 40kHz with system of frequency sweep (sweep system ±2%)
Tank built in AISI 304 stainless steel 0,11” in
Optional: filter for waste and sludge system
Weight: 7716 Lb

Engine rebuilding work
Marine
Heavy machinery

Motor Clean models and specifications

Equipment	Volume	Internal Measures (in.)	Useful Measures (in.)	Ultrasonic power	Frequency	Warming	Pneumatic power payload (lb)	Water-flow System
MOT-30	6,6 gal	22” x 12” x 10”	20” x 10” x 7”	600 W (1200 p-p)	40 KHz (sweep sys. ±2%)	2 x 350W	–	–
MOT-50	11 gal	24” x 12” x 12”	22” x 10” x 9”	700 W (1500 p-p)	40 KHz (sweep sys. ±2%)	2 x 450 W	–	–
MOT-75	16 gal	28” x 14” x 16”	26” x 12” x 11”	800 W (1600 p-p)	40 KHz (sweep sys. ±2%)	3 x 450 W	–	–
MOT-75N	16 gal	26” x 15” x 19”	24” x 13” x 10”	800 W (1600 p-p)	40 KHz (sweep sys. ±2%)	2250 W	65 lb	✓
MOT-150N	33 gal	28” x 19” x 21”	26” x 16” x 13”	1700 W (3400 p-p)	40 KHz (sweep sys. ±2%)	3750W	130 lb	✓
MOT-300N	66 gal	35” x 24” x 25”	34” x 20” x 15”	3400 W (6000 p-p)	40 KHz (sweep sys. ±2%)	7000 W	550 lb	✓
MOT-400N	88 gal	43” x 24” x 27”	42” x 20” x 17”	3400 W (6800 p-p)	40 KHz (sweep sys. ±2%)	7000 W	550 lb	✓
MOT-600N	132 gal	51” x 29” x 26”	48” x 26” x 17”	5100 W (10200 p-p)	40 KHz (sweep sys. ±2%)	9000 W	770 lb	✓
MOT-1000N	220 gal	59” x 35” x 34”	56” x 28” x 22”	6800 W (13600 p-p)	40 KHz (sweep sys. ±2%)	2x7000 W	1650 lb	✓
MOT-2000N	440 gal	69” x 43” x 43”	65” x 36” x 31”	10200 W (20400 p-p)	40 KHz (sweep sys. ±2%)	2 x 9000 W	2200 lb	✓
MOT-3000N	660 gal	81” x 47” x 47”	76” x 39” x 35”	13600 W (27200 p-p)	40 KHz (sweep sys. ±2%)	2 x 12000 W	3300 lb	✓
MOT-4000N	880 gal	94” x 59” x 50”	89” x 54” x 35”	20400 W (40800 p-p)	40 KHz (sweep sys. ±2%)	2 x 15000 W	4400 lb	✓
MOT-8000	1760 gal	118” x 79” x 59”	114” x 75” x 46”	34000 W (68000 p-p)	40 KHz (sweep sys. ±2%)	4 x 15000 W	*	✓

All equipment and features are susceptible to changes in catalog.
*Hydraulic lifting system 4400lb - 15000lb

Recommended model	General workshop	Diesel injection workshop	Grinding workshops	Turbocharger workshop	Engine rebuilding work	Gearbox repair shops	Marine	Heavy machinery	Aeronautics
	Particle filters, injectors, cylinder heads, pistons, alternators, Pieces in general	Diesel injection pump	Cylinder heads, valves, pistons, engine blocks, commutators, particle filters	Turbochargers	Cylinder heads, valves, pistons, engine blocks, commutators, alternators	Gearboxes	Heat interchangers, cylinder heads, valves, pistons, engine motors, turbochargers	Heat interchangers, cylinder heads, valves, pistons, engine motors, turbochargers	Injection pumps, hydraulic circuits, vanes, etc
MOT-30	✓	✓		✓					✓
MOT-50	✓	✓		✓					✓
MOT-75	✓	✓		✓					✓
MOT-75N	✓	✓		✓					✓
MOT-150N	✓	✓	✓	✓	✓	✓	✓	✓	✓
MOT-300N	✓	✓	✓	✓	✓	✓	✓	✓	✓
MOT-400N	✓		✓	✓	✓	✓	✓	✓	✓
MOT-600N			✓	✓	✓	✓	✓	✓	✓
MOT-1000N			✓	✓	✓	✓	✓	✓	
MOT-2000N			✓		✓	✓	✓	✓	
MOT-3000N			✓		✓	✓	✓	✓	
MOT-4000N					✓		✓	✓	
MOT-8000					✓		✓	✓	

In addition to the standard model, we also manufacture models made to measure and Multi-stage systems. These units are designed for companies with special cleaning needs, be it for the characteristics of the pieces to be cleaned or for the requirements of their fabrication process. They can incorporate several processes such as rinsing, drying or different treatments other than cleaning.

Right from the start, we have worked in tandem with our clients seeking the specific solution best suited to their needs.

Examples of special equipment:

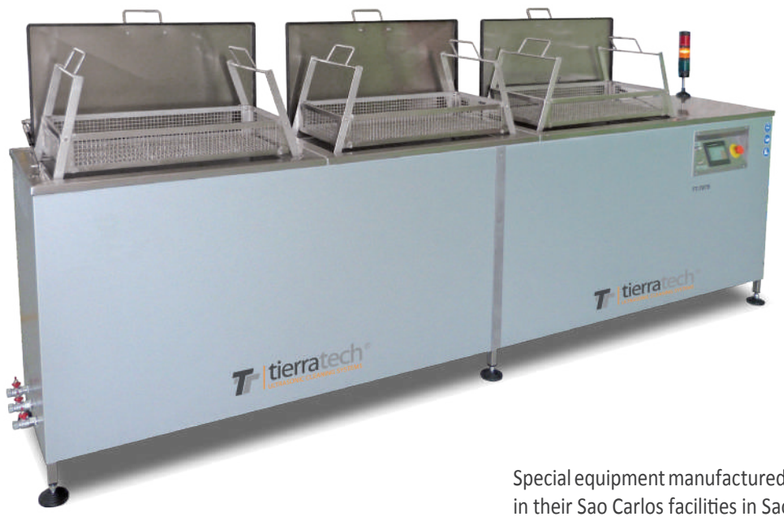
MOT-3X1000 US+A+S: Ultrasonic cleaning + Rinsing + Drying

High-powered ultrasound system and three stages for cleaning, rinsing and drying turbo chargers.

Equipment manufactured for KBB Gmbh for their plant in Bannewitz (Germany).

MOT-75+AC+S: Ultrasonic cleaning + Warm Rinsing + Drying

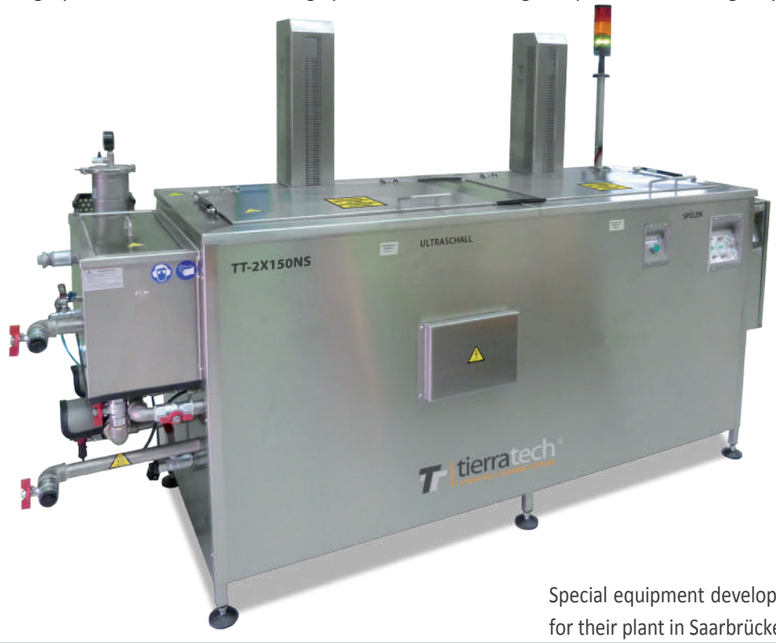
Multistage equipment with ultrasonic cleaning plus warm rinsing and drying, designed for cleaning injection pumps.



Special equipment manufactured for Diesel Remaned in their Sao Carlos facilities in Sao Paulo, Brazil.

MOT-2X150NS + Passivation with bubbles

A two-stage high-powered ultrasonic cleaning system for the cleaning and passivation of engine parts.



Special equipment developed on ZF-internal standards for their plant in Saarbrücken (Germany).

MOT-150NS+V

Tailor-made equipment for the cleaning of interchangers with water circulating system and filters to retain sludge and internal shavings.

Special 40 gallons capacity equipment and water circulating system and heat exchanger verification. Tierra Tech jointly with Voith Turbo develop 4 models with a capacity of 40, 80, 105 and 160 gallons to supply all their workshops and associates worldwide.

Ultrasonic-4 — ALKALINE

Type of product: degreaser
Characteristics: Removes embedded sediments of fat, oils and any kind of stubborn dirt, preventing it from redepositing on parts already cleaned.
Suitable for: Aluminium, iron and alloys
Dosage: 3%
Colour: Blue
Appearance: Liquid

10kg 20kg

Ultrasonic-7W — ALKALINE

Product type: degreaser.
Features: Cleaning and descaling charcoal. To achieve these results it should be used together with Ultrasonic-A.
Suitable materials: iron, galvanized steel and aluminum.
Dosage: 3%
Color: beige.
Appearance: liquid.

10kg 25kg 30kg

Ultrasonic-5P — ALKALINE

Type of product: degreaser.
Characteristics: Cleaning and descaling of grease, oils and all types of stubborn dirt, preventing it from setting on clean parts again.
Suitable for: All types of materials and metals (including aluminium and its alloys).
Dosage: 3%
Color: white.
Appearance: powder.

10kg 25kg 30kg

Ultrasonic-20 — ALKALINE

Type of product: degreaser and decarboniser
Characteristics: High degreasing cleaner. Its carefully selected surfactants facilitate the penetration of the product into the dirt. Specially formulated to be used in hard water, because it prevents the precipitation of calcium and magnetic salts.
Suitable for: Iron
Dosage: 5%
Colour: white
Appearance: liquid

10kg 25kg

Ultrasonic-22 — ALKALINE

Type of product: degreaser
The strongest alkaline degreaser for ferrous metals.
Suitable for: Ferrous materials
Dosage: 3-5%
Colour: white
Appearance: powder

10kg 25kg

Ultrasonic-23 — ALKALINE

Type of product: degreaser and decarboniser
Characteristics: Alkaline cleaner formulated to degrease steel surfaces and also to remove phosphate layers.
Suitable for: Iron
Dosage: 5%
Colour: White
Appearance: powder

10kg 25kg

Ultrasonic-A — TENSO-ACTIVATOR

Type of product: degreasing additive
Characteristics: Additive for degreasing detergents, tensoactivator
Dosage: 0,2%-0,5%
Colour: red
Appearance: liquid

10kg 25kg 30kg

Ultrasonic-B — TENSO-ACTIVATOR

Type of product: degreasing additive
Characteristics: Aditive for degreasing detergents, tensoactivator
Dosage: 0,2%-0,5%
Colour: yellowish
Appearance: liquid

10kg 25kg 30kg

Ultrasonic-51 PAINT STRIPPING

Type of product: paint stripper
Characteristics: When hot, it has unique stripping properties in short periods of time for synthetic resins, primers, paints and baked powder paints, water paints and very resistant cataphoretic coatings..
Suitable for: Aluminium
Dosage: 100%
Colour: yellowish
Appearance: Liquid

10kg 25kg

Ultrasonic-54 PAINT STRIPPING

Type of product: paint stripper
Characteristics: When hot it has the ability to remove stains on synthetic resins, baked paints, primers, water paints and cataphoretic coatings.
Suitable for: Iron
Dosage: 50%
Colour: Brownish
Appearance: Liquid

10kg 25kg

Products and specifications

	Product	How to use		Suitable material					Waste to be removed				Type of product				
		Concentration in water (%)	Bath temperature	Aluminium	Iron	Stainless steel	Plastics	Electronic plates	Oil	Grease	Carbon	Paint	Degrease	Decarboniser	Deoxidizer	Solvent	Additive
ALKALINE	Ultrasonic-4	3%	100º-180ºF	✓	✓				✓	✓			✓				
ALKALINE	Ultrasonic-7W	3%**	100º-180ºF	✓	✓				✓	✓			✓				
ALKALINE	Ultrasonic-5P	3%	100º-180ºF	✓	✓				✓	✓			✓				
ALKALINE	Ultrasonic-20	5%	100º-180ºF		✓				✓	✓			✓	✓			
ALKALINE	Ultrasonic-22	5%	100º-180ºF		✓				✓	✓			✓	✓			
ALKALINE	Ultrasonic-23	5%	100º-180ºF		✓				✓	✓			✓	✓			
TENSO-ACTIVATOR	Ultrasonic-A	0,2-0,5%*	100º-180ºF	✓	✓						✓			✓			✓
TENSO-ACTIVATOR	Ultrasonic-B	0,2-0,5%*	100º-180ºF	✓	✓						✓			✓			✓
STRIPPING	Ultrasonic-51	100%	100º-180ºF	✓								✓				✓	
STRIPPING	Ultrasonic-54	50%	100º-180ºF		✓							✓				✓	

Observations: *Should be used with Ultrasonic 7(3%)
**Should be used with Ultrasonic A(0,5%)

Some of our clients:

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ULTRASONIC CLEANING SYSTEMS

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