Ultrasonic Cleaning Equipment for the AUTOMOTIVE INDUSTRY

www.tierratech.com
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.
Motor Clean in the automotive sector

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TierraTech® worldwide

TierraTech® is located directly in Spain, Mexico, USA 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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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 30 to 8000 litres 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.

**Applica**

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.

**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.

**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.
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.

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.

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.

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.

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.

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.
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.

- **Water savings**: 73 dB. Max.
- **Fastest cleaning**
- **Our frequencies**
  - 28 kHz (sweep system)
  - 40 kHz (sweep system)
  - 40-90 kHz Multi-frequency

**Large stocks available**
**INMEDIATE DELIVERY**
**Standard Model**

**MOT-30 - 30 litres**
- **Capacity:** 30 litres
- **Internal dimensions:** 700 x 350 x 400 mm
- **Useful basket measures:** 650 x 360 x 290 mm
- **Power supply:** 240V
- **Heat resistance:** 3x450W
- **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 2mm**
- **Weight:** 71kg

**MOT-50 - 50 litres**
- **Capacity:** 50 litres
- **Internal dimensions:** 600 x 300 x 300 mm
- **Useful basket measures:** 550 x 250 x 225 mm
- **External dimensions:** 810 x 420 x 540 mm
- **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 2mm**
- **Weight:** 40kg

**MOT-75 - 75 litres**
- **Capacity:** 75 litres
- **Internal dimensions:** 700 x 350 x 400 mm
- **Useful basket measures:** 650 x 360 x 290 mm
- **External dimensions:** 960 x 550 x 900 mm
- **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 2mm**
- **Weight:** 34kg

**MOT-75N - 75 litres**
- **Capacity:** 75 litres
- **Internal dimensions (excluding auxiliary tank):** 650 x 390 x 470 mm
- **Useful measures:** 620 x 325 x 260 mm
- **External dimensions:** 1170 x 735 x 900 mm
- **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 2.5mm.**
- **Ultrasonic power:** 800W (1600W p-p)
- **Working frequency:** 40kHz system of frequency sweep (sweep system ±2%)
- **Tank built in AISI 304 stainless steel of 2mm**
- **Pneumatic lifting reinforced load on dive platform.**
- **Maximum load capacity:** 30kg
- **Optional:** filter for sludge and waste system
- **Weight:** 130kg

**MOT-150N - 150 litres**
- **Capacity:** 150 litres
- **Internal dimensions (excluding auxiliary tank):** 700 x 480 x 540 mm
- **Useful measures:** 670 x 415 x 335 mm
- **External dimensions:** 1270 x 825 x 920 mm
- **Power supply:** 240V / 400V
- **Heat resistance:** 3750W
- **Ultrasonic power:** 1700W (3400 W p-p)
- **1 ultrasonic generator with an output power of 1700W (3400 p-p)**
- **1 submersible transmitter with a power of 1700W (3400 W p-p) built in AISI 304 stainless steel of 2.5mm.**
- **Ultrasonic power:** 1700W (3400 W p-p)
- **Working frequency:** 40kHz with system of frequency sweep (sweep system ±2%)
- **Heat resistance:** 3750W
- **Tank built in AISI 304 stainless steel of 2mm**
- **Pneumatic lifting reinforced load on dive platform.**
- **Maximum load capacity:** 60kg
- **Optional:** filter for the separation of lubricants and oils
- **Weight:** 175 kg

**MOT-300N - 300 litres**
- **Capacity:** 300 litres
- **Internal dimensions (excluding auxiliary tank):** 900 x 615 x 640 mm
- **Useful measures:** 860 x 520 x 385 mm
- **External dimensions:** 1520 x 1020 x 1030 mm
- **Power supply:** 400V
- **Heat resistance:** 7500W
- **Ultrasonic power:** 3000W (6000W p-p)
- **1 ultrasonic generator with a power output of 3000W output (6000W p-p)**
- **1 submersible transmitter with a power of 3000W each / 3000W (6000W p-p) built in AISI 304 stainless steel of 2.5mm.**
- **Ultrasonic power:** 3000W (6000W p-p)
- **Working frequency:** 40kHz with system of frequency sweep (sweep system ±2%)
- **Tank built in AISI 304 stainless steel of 2mm**
- **Pneumatic lifting reinforced load on dive platform.**
- **Maximum load capacity:** 250kg
- **Optional:** filter for the separation of lubricants and oils
- **Weight:** 390kg
Standard Model

**MOT-400N - 400 litres**

- Capacity: 400 litres
- Internal dimensions (excluding auxiliary tank): 1100 x 615 x 690 mm
- Useful measures: 1060 x 520 x 410 mm
- External dimensions: 1720 x 1010 x 1080 mm
- Power supply: 400V
- Heat resistance: 7500W
- Ultrasonic power: 3400 (6800W p-p)
- 1 ultrasonic generator with a power output of 3400 (6800W p-p)
- 2 submersible transmitters with a power of 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 2mm
- Pneumatic lifting reinforced load on dive platform.
- Maximum load capacity: 250kg
- Auxiliary tank for the separation of lubricants and oils
- Optional: filter for sludge and waste system
- Weight: 320kg

**MOT-600N - 600 litres**

- Capacity: 600 litres
- Internal dimensions (excluding auxiliary tank): 1300 x 735 x 665 mm
- Useful measures: 1230 x 650 x 410 mm
- External dimensions: 1950 x 1195 x 1070 mm
- 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 transmitters 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 2mm
- Pneumatic lifting reinforced for loading, batting and unloading platform.
- Maximum load capacity: 350kg
- Auxiliary tank for the separation of lubricants and oils
- Optional: filter for sludge and waste system
- Weight: 400kg

**MOT-1000N - 1000 litres**

- Capacity: 1000 litres
- Internal dimensions (excluding auxiliary tank): 1500 x 810 x 875 mm
- Useful measures: 1410 x 720 x 570 mm
- External dimensions: 2120 x 1390 x 1100 mm (incl. auxiliary tank and distribution board).
- Power supply: 400V
- Heat resistance: 2x7000W
- Ultrasonic power: 6800W (13600W p-p)
- 4 submersible transmitters 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 2mm
- Pneumatic lifting reinforced for loading, batting and unloading platform.
- Maximum load capacity: 500kg
- Auxiliary tank for the separation of lubricants and oils
- Optional: filter for sludge and waste system
- Weight: 550kg

**MOT-2000N - 2000 litres**

- Capacity: 2000 litres
- Internal dimensions: 1750 x 1100 x 1080 mm
- Useful measures: 1650 x 950 x 790 mm
- External dimensions: 2310 x 1610 x 1345 mm (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 transmitters with a power of 1700W each / 10200W (20400W 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 in AISI 304 stainless steel 2mm
- Pneumatic lifting reinforced for loading, batting and unloading platform.
- Maximum load capacity: 1500kg
- Auxiliary tank for the separation of lubricants and oils
- Optional: filter for waste and sludge system
- Peso: 1850kg

**MOT-3000N - 3000 litres**

- Capacity: 3000 litres
- Internal dimensions: 2050 x 1200 x 1205 mm
- Useful measures: 1950 x 990 x 880 mm
- Overall dimensions: 3610 x 1780 x 1465 mm (incl. auxiliary tank and distribution board)
- Power supply: 400V
- Heat resistance: 2x13000W
- Ultrasonic power: 13600W (27200W p-p)
- 4 generators of ultrasound with a power output of 13600W (27200W p-p)
- 6 submersible transmitters 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 in AISI 304 stainless steel 2.5mm
- Pneumatic lifting reinforced for loading, batting and unloading platform.
- Maximum load capacity: 1500kg
- Auxiliary tank for the separation of lubricants and oils
- Optional: filter for waste and sludge system
- Weight: 2120kg

**MOT-4000N - 4000 litres**

- Capacity: 4000 litres
- Internal dimensions: 2400 x 1500 x 1260 mm
- Useful measures: 2280 x 1380 x 890 mm
- Overall dimensions: 4090 x 2260 x 1560 mm (incl. auxiliary tank and distribution board).
- Power supply: 400V
- Heat resistance: 2x25000W
- Ultrasonic power: 20400W (40800W p-p)
- 6 generators of ultrasound with a power output of 20400W (40800W p-p)
- 12 submersible transmitters 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 3mm
- Pneumatic lifting reinforced for loading, batting and unloading platform.
- Maximum load capacity: 1500kg
- Auxiliary Tank for the separation of lubricants and oils
- Optional: filter for waste and mud system
- Weight: 2800kg
## Standard Model

**MOT-8000 - 8000 litres**

- **Capacity:** 8000 litres
- **Internal dimensions:** 3000 x 2000 x 1500 mm
- **Useful measures:** 2900 x 1900 x 1880 mm
- **Overall dimensions:** 3950 x 2575 x 1800 mm
- **Power supply:** 400V
- **Heat resistance:** 4x15000W
- **Ultrasonic power:** 34000W (68000W p-p)
- **20 submersible transmitters with a power output of 34000W (68000W p-p)**
- **Working frequency:** 40kHz with system of frequency sweep (sweep system ±2%)
- **Tank built in AISI 304 stainless steel 3mm**
- **Optional:** filter for waste and sludge system
- **Weight:** 3500kg

### Motor Clean models and specifications

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<th>Model</th>
<th>Tankage</th>
<th>Internal dimensions (mm)</th>
<th>Useful measures (mm)</th>
<th>Ultrasonic power (W)</th>
<th>Frequency (kHz)</th>
<th>heating (mm)</th>
<th>Pneumatic loading capacity (kg)</th>
<th>Waterflow System</th>
</tr>
</thead>
<tbody>
<tr>
<td>MOT-30</td>
<td>30L</td>
<td>550 x 300 x 250</td>
<td>500 x 250 x 175</td>
<td>600 W (1200 p-p)</td>
<td>40</td>
<td>2 x 350W</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>MOT-50</td>
<td>50L</td>
<td>600 x 300 x 220</td>
<td>550 x 250 x 225</td>
<td>700 W (1500 p-p)</td>
<td>40</td>
<td>2 x 450W</td>
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<tr>
<td>MOT-75</td>
<td>75L</td>
<td>700 x 350 x 400</td>
<td>650 x 300 x 290</td>
<td>800 W (1600 p-p)</td>
<td>40</td>
<td>3 x 400W</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>MOT-75N</td>
<td>75L</td>
<td>650 x 390 x 470</td>
<td>620 x 325 x 260</td>
<td>800 W (1600 p-p)</td>
<td>40</td>
<td>2250 W</td>
<td>30 kg</td>
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</tr>
<tr>
<td>MOT-150N</td>
<td>150L</td>
<td>700 x 480 x 540</td>
<td>670 x 415 x 335</td>
<td>1700 W (3400 p-p)</td>
<td>40</td>
<td>3750W</td>
<td>60 kg</td>
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<tr>
<td>MOT-300N</td>
<td>300L</td>
<td>900 x 615 x 640</td>
<td>860 x 520 x 385</td>
<td>3000 W (6000 p-p)</td>
<td>40</td>
<td>7500 W</td>
<td>250 kg</td>
<td>—</td>
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<tr>
<td>MOT-400N</td>
<td>40L</td>
<td>1100 x 615 x 690</td>
<td>1060 x 520 x 410</td>
<td>3400 W (6800 p-p)</td>
<td>40</td>
<td>7500 W</td>
<td>250 kg</td>
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<tr>
<td>MOT-600N</td>
<td>60L</td>
<td>1300 x 735 x 665</td>
<td>1230 x 650 x 410</td>
<td>5100 W (10200 p-p)</td>
<td>40</td>
<td>9000 W</td>
<td>350 kg</td>
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<tr>
<td>MOT-1000N</td>
<td>100L</td>
<td>1500 x 810 x 875</td>
<td>1410 x 720 x 570</td>
<td>6800 W (13600 p-p)</td>
<td>40</td>
<td>2x7000W</td>
<td>500 kg</td>
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</tr>
<tr>
<td>MOT-2000N</td>
<td>200L</td>
<td>1750 x 1100 x 1080</td>
<td>1650 x 910 x 790</td>
<td>10200 W (20400 p-p)</td>
<td>40</td>
<td>2 x 9000W</td>
<td>1000 kg</td>
<td>—</td>
</tr>
<tr>
<td>MOT-3000N</td>
<td>300L</td>
<td>2050 x 1200 x 1205</td>
<td>1930 x 990 x 880</td>
<td>13600 W (27200 p-p)</td>
<td>40</td>
<td>2 x 1200W</td>
<td>1500 kg</td>
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<tr>
<td>MOT-4000N</td>
<td>400L</td>
<td>2400 x 1500 x 1260</td>
<td>2280 x 1380 x 890</td>
<td>20400 W (40800 p-p)</td>
<td>40</td>
<td>2 x 1500W</td>
<td>1500 kg</td>
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<tr>
<td>MOT-8000</td>
<td>800L</td>
<td>3000 x 2000 x 1500</td>
<td>2900 x 1900 x 1180</td>
<td>34000 W (68000 p-p)</td>
<td>40</td>
<td>4 x 1500W</td>
<td>—</td>
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</tr>
</tbody>
</table>

All specifications are subject to changes

*Hydraulic lifting system 2000 - 7000kg
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.

**MOT-2X150NS + Passivation with bubbles**

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

**Equipment manufactured for Diesel Remaned in their Sao Carlos facilities in Sao Paulo, Brazil.**

**MOT-150NS+V**

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

**Special equipment manufactured for KBB Gmbh for their plant in Bannewitz (Germany).**

Special 150 litre capacity equipment and water circulating system and heat exchanger verification. Tierra Tech jointly with Voith Turbo develop 4 models with a capacity of 150, 300, 400 and 600 litres to supply all their workshops and associates worldwide.
Cleaning Product

### Ultrasonic-4
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: Beige
Appearance: Liquid

### Ultrasonic-7W
Type of product: degreaser.
Features: Cleaning and descaling charcoal. To achieve these results it should be used together with Ultrasonic-A.
Suitable materials: Iron, galvanized steel and aluminium.
Dosage: 3%
Color: Beige
Appearance: Liquid

### Ultrasonic-5P
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

### Ultrasonic-20
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

### Ultrasonic-22
Type of product: degreaser
Characteristics: The strongest alkaline degreaser for ferrous materials.
Suitable for: Ferrous materials
Dosage: 3-5%
Colour: White
Appearance: Powder

### Ultrasonic-23
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

### Ultrasonic-A
Type of product: degreasing additive
Characteristics: Additive for degreasing detergents, tensoactivator
Dosage: 0.2%-0.5%
Colour: Red
Appearance: Liquid

### Ultrasonic-B
Type of product: degreasing additive
Characteristics: Additive for degreasing detergents, tensoactivator
Dosage: 0.2%-0.5%
Colour: Yellowish
Appearance: Liquid
Some of our clients:

![Client Logos](image)